

# 

BOOKS may be taken from the State Library by the members of the General Assembly and its offered and attention of the General Assembly and attention of the Legislature, and attention the Governor, and the officers of the Executive Department of this State who are required to keep their officers at the seat of government, and the Justices of the Supreme and Appellate Courts.

No person shall be allowed to take any book or property from the Library without executing a receipt therefor, nor to take or detain from the Library more than two volumes of miscellaneous works at

any one time.

No miscellaneous works shall be detained more than two weeks. All Laws, Journals, etc. taken by members of the Legislature, shall be returned at the

close of the sessiou.

If any person injures, or fails to return any book taken from the Library, within the time above mentioned, HS SHALL FORFEIT AND PAY TO THE LIBRARIAN, for the benefit of the Library, THREE TIMES THE VALUE THEREOF, or of the set to which it belongs.

Any person, not above mentioned, who takes books or other articles from the State Library without the consent of the Librarian, will be prosecuted for

larceny.

Any person taking books from the State Library without reporting the same to the Librarian, or assistant, and causing the same to be properly charged upon the Register, will be prosecuted to the extent of the law.

No entry of charge or return of books will be permitted to be made, except by the Librarian or

assistant.

Persons using books of the Library, will return the same to the Librariau or assistant.

JAMES A. ROSE.

Secretary of State and ex officio State Librarian.

# ARCHIVAL COPY DO NOT CIRCULATE



)

# EIGHTEENTH ANNUAL COAL REPORT

PREPARED BY THE

35011

# Illinois Bureau of Labor Statistics

1899.

ALSO CONTAINING THE

FIRST ANNUAL REPORT

OF THE

# Illinois Free Employment Offices

August 2 to October 1, 1899.

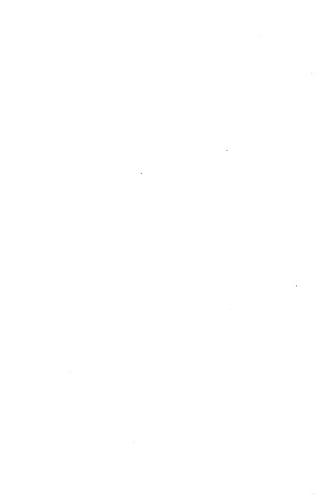
DAVID Ross, Secretary, Springfield.





ARCHIVAL COPY DO NOT CIRCULATE

SPRINGFIELD, ILL.
PHILLIPS BROS. STATE PRINTERS.
1899.
ILLINOIS STATE LIBRARY.



## BOARD OF COMMISSIONERS OF LABOR.

#### 1899.

P. H. Donnelly, President, 154 W. 71st St., Chicago.

THOMAS D. KELLIGAR, Pana.

Samuel M. Dalzell, Spring Valley.

RANDOLPH SMITH, Flora.

L. W. Fribourg, Decatur.

Secretary.

David Ross, Springfield.

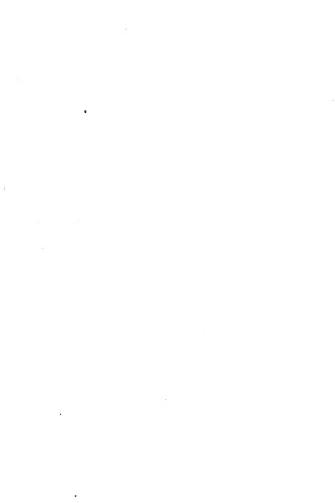


#### STATE MINING BOARD

1899.

RICHARD NEWSAM, President. Peoria. James Taylor, Edwards. Cochran Johnston, Spring Valley. Patrick McCann, Lincoln. Hugh Murray, M. E., Nashville.

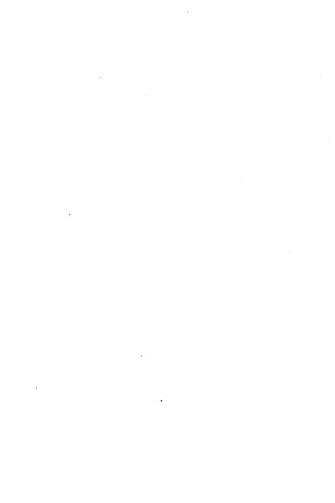
Secretary, Eben Howells, Springfield.



### STATE INSPECTORS OF MINES.

1899.

HECTOR MCALLISTER, First District, Streator. Thomas Hudson, Second District, Galva.
John W. Graham, Third District, Canton.
John E. Williams, Fourth District, Danville.
Walton Rutledge, Fifth District, Alton.
John Dunlop, Sixth District, Centralia.
Evan D. John, Seventh District, Carbondale.



### ILLINOIS FREE EMPLOYMENT OFFICES.

NORTH SIDE OFFICE, 234 Chicago, Avenue,

W. E. GOODMAN, Supt. Thos. Devenish, Asst. Supt. Mrs. J. C. Schaufel, Clerk.

SOUTH SIDE OFFICE, 44 Congress St.

GEO. W. GEARY, Supt.
JOHN FELKER, Asst. Supt.
MISS MARGARET E. MAY, Clerk.

West Side Office, 28, Ogden Avenue.

Fred E. Erickson, Supt.
P. J. Meaney, Asst. Supt.
Miss Lizzie Henneberry, Clerk.



## State of Illinois, Office of the Bureau of Labor Statistics. Springfield, January 1, 1900.

Honorable John R. Tanner, Governor of Illinois.

SIR:—On behalf of the Board of Labor Commissioners I have the honor to submit herewith the Eighteenth Annual Report of the coal industry of this State, together with the First Report of the Ullinois Free Employment Offices.

DAVID Ross, Secretary.



### TABLE OF CONTENTS.

Introductory, Eighteenth Annual Report-1899	1
Statistics, Coal in Illinois	V 1
Classification of Mines	Z
The Output for the Year	ZVI
Output by Counties	XXIV
Disposition of Output	XXVI
Distribution of Coal to Railroads	ZZZII
The Possible Output of Existing Mines	HYZZZ
Days of Active Operation	ZZZZZ
Average Value of Coal	XLI
Mine Employés	XLII
Prices Paid for Mining	XLIV
Aggregate Wages of Mine Employés	ZLVI
Frequency of Wage Payments	LI
Machine Mining	LH
Consumption of Powder	LVII
Fatal Accidents	LIX
Non-Fatal Accidents	LXV
Nationality of Coal Miners	LXX
Conclusion.	LXXIV
Recapitulation by Districts	LXX VI
REPORTS OF STATE INSPECTORS OF MINES:	
First Inspection District-Hector McAllister, Inspector.	
Text of the Report	3
Fatal Casualties.	
Non-Fatal Casualties	
Statistics of Grundy, Kankakee, LaSalle, Livingston, and Will Counties	12
Recapitulation by Counties	
Second Inspection District-Thomas Hudson, Inspector.	
SECOND INSPECTION DISTRICT—I Romas Huason, Inspector.  Text of the Report	21
Fatal Casualties.	
Non-Fatal Casualties	
Statistics of Bureau, Henry, Marshall, Mercer, Peoria, Rock Island, Stark, and	
•	
ford Counties	
	42
Third Inspection District-John W. Graham, Inspector.	
Text of the Report	
Fatal Casualties	
Non-Fatal Casualties	
Statistics of Brown, Fulton, Hancock, Knox, McDonough, Schuyler, and V	
Counties	
Recapitulation by Counties	74

FOURTH INSPECTION DISTRICT—John E. Williams, Inspector. Text of the Report Fatal Casualties. Non-Fatal Casualties. Statistics of Casa, Logan, Macon, McLean, Menard, Tazewell, and Vermilion Counties. Recapitulation by Counties.	81 83 86
Fifth Inspection District—Wallon Rutledge, Inspector.  Text of the Report.  Fatal Casualties.  Non-Fatal Casualties.  Statistics of Calhoun, Christian, Greene, Jersey, Morgan, Maconpin, Montgomery, Scott, Sangamon, and Shelby Connties.  Recapitulation by Counties.	101 104 106
Sixth Inspection District—John Dunlop, Inspector. Text of the Report. Fatal Casualties. Non-Fatal Casualties. Statistics of Bond, Clinton, Madison, Marion, and St. Clair Counties. Recapitulation by Counties.	124 129 132
Seventh Inspection District—Evan D. John, Inspector Text of the Report Fatal Casualties Non-Fatal Casualties Statistics of Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Washington, and Williamson Counties Recapitulation by Counties	144 147
APPENDIX.	
Register of Certificated— Mine Managers Hoisting Engineers Fire Bosses Mine Examiners	177 185
Report of Inspection Fees— First District Second District. Third District. Fourth District. Fifth District. Sixth District. Seventh District.	191 193 195 197 200
REVISED MINING LAW	
OTHER MINING LAWS— Miners to be paid for all coal mined	235 236 237

#### ILLINOIS FREE EMPLOYMENT OFFICES.

Introductory	241
Law creating Free Employment Offices	242
Work of the offices	217
Wages paid to applicants	24.)
Character and number of applications for employment and for help	
Ages of applicants	
Nationality of applicants.	256
REPORTS OF SUPERINTENDENTS.	
North Side Office, W. E. Goodman, Supt	
Text of the Report	208
Applications for Employment and Help-Males	259
Applications for Employment and Help-Females	261
Recapitulation by Sex	261
Expense Account	262
South Side Office, Geo. W. Geary, Supt	
Text of the Report	263
Applications for Employment and Help-Maks	264
Applications for Employment and Help-Females	266
Recapitulation by Sex	266
Expense Account	267
West Side Office. Fred E. Erickson, Supt	
Text of the Report	268
Applications for Employment and Help-Males	268
Applications for Employment and Help-Females	270
Recapitulation by Sex	271
Expense Account	271
Summary of the work of the three offices	272



#### INTRODUCTORY.

## EIGHTEENTH ANNUAL COAL REPORT.

1899.

An examination of the general summary prepared from the reports submitted to this office by the State Mine Inspectors, for the year ended June 30, 1899, show, notwithstanding the general adoption of the shorter work day, that the percentage of increase of production considerably exceeds that of any similar period in the mining history of the State.

This gratifying increase of production not only indicates a substantial improvement in the trade conditions of the country, but what is as much to be desired, a comparative absence of strikes, lock-outs and suspensions. It is too much to expect that the mining industry could at any time be absolutely free from strife. Where local contests have occurred they were caused either by an effort to compel compliance with the mining rates agreed upon at the State or inter-state convention of miners and operators, or for the equally important question regarding the right to organize. In most instances both these issues were involved in the contention.

Of the strikes that have occurred in the State, that at Pana. now happily settled, was the most significant, on account of the number of men affected, its duration, and the methods adopted by the employers to defeat it. The lockout or suspension at that point began April 1, 1898, the date of the new contract year, and continued until October 10, 1899. The mine owners claimed that they were not represented at the inter-state convention, which fixed a forty-cent rate for these mines, and therefore felt that they were not bound by its action. From the report of the miners' committee selected to negotiate a settlement, the question of the forty-cent rate was not so much considered as the many other local demands which the miners then insisted should be included in the settlement. At the conclusion of

several interviews at which local matters alone were considered, the company officials surprised the committee with the declaration that they would not pay the price or thereafter treat with them as an organized body.

Aggravated by local demands, which, in addition to the proposed increased mining rate were considered oppressive, the mine owners resolved to repudiate the scale, defied the power of the inter-state convention, and declared war on all forms of organized effort. For years prior to that time the Pana mine owners were practically masters of the situation. They encountered no opposition from their employés, and substantially named the mining price. Exempt from the restrictions of the union, the privilege operated in a double direction—it gave them a decided advantage over their natural competitors in the market, while the additional employment furnished the men induced them to oppose affiliation with their brother craftsmen. In view of past immunities it was but natural that they should resent the interference of the union, supplemented as it was by the sympathy and support of outside employers.

Shortly after the company had signified its purpose to resist the organization, preparations were made to import colored labor from the South. This course was accompanied by expected resistance, and notwithstanding the military precautions taken by the companies, riots occurred from time to time, as a result of which many were injured and several lives sacrificed. While the operators considered they were imposed upon in being required to pay a mining rate very much in excess of former prices, and claimed the trouble there was the result of a conspiracy between outside miners and their employing competitors, their employés, from the origin of the difficulty repeatedly petitioned the mine owners to join with them in submitting their differences for adjustment to the State Board of Arbitration. These requests were rejected on the pretexts that the miners were not an incorporated and therefore not a responsible body; that under the provisions of the arbitration law the State could not enforce any award as against the employés, while they, as an incorporated body, might be held to answer in damages for a failure to abide by the board's decision. It was very apparent to those who endeavored to effect a settlement through such an agency, that the companies felt that in adopting such a course they would necessarily commit themselves to a recognition of the miners' union; which at that stage of the conflict would prove more obnoxious and disastrous to the companies than to concede the rate contended for. After a stubborn conflict extending over eighteen months, the result at Pana was as complete and substantial a victory for the miners as that previously won at Virden. While the operators signed the forty-cent scale under protest, with the implied understanding and assurance that a more equitable price would be agreed to at future conventions, the most commendable feature of the settlement was the agreement on the part of the company to comply with all that the inter-state movement involved, the most important being the recognition of the union; the right of employés to consider and adjust terms of employment through regularly selected committees. The settlement also carried with it the adoption of the eight-hour work day, and in fact all the other conditions embodied in the Chicago agreement.

This gratifying conclusion of a protracted and regrettable conflict tends to demonstrate that, simple as the process of production has become, there is still a necessity for the services of men having experience and special training in that line of industry. Regardless of the color of the skin, men without a recognized occupation, who can be purchased at so much a car load, constitute a source of expense and danger to any community. Such investments are financially profitable only when their importation disintegrates the ranks of the older miner. This effected, they are usually cast adrift and open for similar engagements in the same disreputable service. Where continued organized resistance, however, is maintained, as was exhibited in the contest at Pana, their presence but adds to the expense and embarrassment of their employers.

The Pana experiment, like that at Virden, was costly beyond computation. Expensive to the mine owners, the miners, and to the State of Illinois. While all must and do regret the loss of life, property and business prestige, saying nothing of the bitterness such a contest engenders, the experience will not be without its value, if it burns the conscience with the fact that every species of wrong will inflict its certain and adequate punishment; that it is easier to deal with a friend than an enemy, and much better to furnish employment for our own citizens than to form questionable contracts with the riff-raff of the world.

While a great number of local strikes have been settled during the past year, on the terms demanded by the miners, that at Decatur was, next to Pana, the most important. Everything at one time in-

dicated a desperate struggle, but after the lapse of several months, finding that the miners were still firm, the company capitulated and accepted all the conditions of the inter-state agreement.

The only contest still being waged in the State is that at Carterville, in Williamson county. With the exception of about fifty men, the old miners have secured employment elsewhere. Those left, acting under the direction of the organization, will continue the struggle. Unlike some of the other contests, the company has made no effort to conciliate or conceal the cause of the difficulty. The question of mining rates has been somewhat eliminated, owing to the company having advanced the price a fraction above that stipulated in the scale. The principal contention is the recognition of the union, a concession the company is not now disposed to make.

The period covered by this report is generally conceded to be the most prosperous the trade has for some time enjoyed. The general revival of industry throughout the country has made possible employment for all. In fact, in certain lines of production, there is and has been a visible shortage of labor. Particularly is this true in the mining regions where, for the first time in many years, the daily output of the mines proved insufficient to meet demands.

Prior to the year 1883 information concerning the coal industry of this State was supplied through reports made by the inspectors appointed by the county boards of supervisors, as provided for in the original act, in force July 1, 1872. This provision was not changed in the law as amended in 1877. From these sources, supplemented by the census reports, the data was collected from which the annual reports of the bureau were prepared. The development of the industry made necessary still further changes in the law, and the act was amended in 1883, which among other provisions, divided the State into five districts, and provided for the appointment by the Governor, of five State Inspectors of Mines. During the session of the General Assembly of 1895 this provision was further amended, and the State divided into seven inspection districts, and providing for the appointment of as many State Mine Inspectors, and also requiring the owners or operators of coal mines to pay a fee of not less than six dollars nor more than ten dollars for each inspection or investigation of a coal mine by a State Mine Inspector.

The numerous amendments added at every session of the legislature to the Act of 1883, resulted in such conflict and confusion as to impair the force and efficacy of our mining laws. Many of these amendments were made without regard to their effect on former enactments; others were still further neutralized by the adverse opinion of the courts. In view of these contradictions, inconsistencies and ambiquities in the law, Gov. Tanner, in his message to the 41st General Assembly, recommended a general revision of our mining This work, involving nearly a year's labor, devolved upon this bureau. When the revision was completed it was submitted to representatives of the miners and operators, and, excepting a few minor changes, was approved substantially as prepared. It passed both branches of the General Assembly without a dissenting vote, and is admittedly one of the strongest and most consistent Acts that has found a place on our statute books. The Act took effect July 1, 1899, and appears as an appendix to this report, with a brief explanation of the essential features in which it differs from the Acts it supersedes.

The value of these reports from a statistical standpoint practically dates from the establishment of the State inspection system. From the report of 1883 to the present one, material changes have taken place in this industry, affecting not only the volume but the method of production. The annual output has increased from ten million tons in 1883, to nearly twenty-three and one-half million tons in 1899, an increase of 135 per cent. During this period the total number of all classes engaged in the production of coal has increased 45 per cent.

### STATISTICS OF COAL IN ILLINOIS.

FOR THE YEAR ENDED JUNE 30, 1899.

The Commissioners of Labor, in presenting this, the Eighteenth Annual Report of the coal industry of Illinois, take this opportunity to congratulate all those engaged in the vocation, upon the completion of a great and successful year's work. For some time past the mining interests of the country have presented a most discouraging aspect. Industrial depressions affect no interests so readily as that of coal mining. The source of steam suffers the first shock. It is gratifying to note the present unusual activity accompanied by an upward tendency in prices. The year 1900 opens auspiciously. With a continuation of the present happy relations, fostered through the plan of inter-state agreements between miners and operators, the future is filled with promise for the industry.

The report contains the usual statistics of the coal production, together with all contingent experiences and facilities for placing the product on the market. The seven State Inspectors of Mines collect and report on uniform blanks, furnished from this office, a full record of the conditions and experience of every coal mine in each of their respective districts. The specific information as to the operating of each mining plant is furnished by the operators, on blanks sent out by the inspectors, and returned to them, thus giving the most reliable information of the industry possible to be obtained.

The main features of former reports have been followed in this, and furnishes a series of statistics uniform in all essential particulars. Some additional information concerning essential statistics of these industry are presented in this report, not heretofore collected. These relate (1) the nationality of the employés at the mines in the State; (2) the haulage of coal in the mines, and the number of horses or mules employed; (3) the total amount of wages paid all classes of employés, excepting office help. These features are tabulated in detail, and will be found in subsequent pages.

In the following summary will be found most of the important totals for the State for the year:

#### SUMMARY 1899.

Number of counties producing coal	52
Number of mines and openings of all kinds	889
New mines or old mines re-opened during the year	131
Mines closed or abandoned since last report	123
Total output of all mines in tons of 2,000 pounds	23,434,445
Number of shipping mines	322
Total output of shipping mines, tons	22,531,356
Number of mines in local trade only	567
Output of local mines, tons	903,089
Total tons of lump coal	17,427,598
Total tons of other grades	6,006,847
Total tons shipped	20,019,147
Tons sold to local trade	2,321,040
Tons consumed (or wasted) at the plant	1,094,258
Average days of active operation for shipping mines	205.7
Average days of active operation for all mines	174.6
Average value per ton, all grades at the mines	\$0.7852
Average value per ton of all lump coal at the mines	\$0.9186
Average value per ton of other grades	\$0.4008
Aggregate home value of total product	\$18,408,470
Number of mines in which mining machines are used	64
Number of mining machines in use	440
Number of tons undercut by machines	6,085,312
Average number of miners employed during the year	26,449
Average number of other employés	10,542
Total employés	36,991
Total wages paid all employés, excepting office help	\$14,616,555
Number of men at work under ground	33,199
Number at work on surface	3,792
Number of horses and mules employed at the mines	3,529
Average price paid per gross ton for all hand mining	\$0.471
Average price paid per gross ton for machine mining	\$0.3134
Number of kegs of blasting powder used	423,483
Number of men accidentally killed	84
Number of wives made widows	46
Number of children left fatherless	155
Number of men injured so as to lose a week or more of time.	597
Number of gross tons mined to each life lost	278,982
Number of employés to each life lost	440
Number of grosss tons mined to each man injured	39,254
Number of employés to each man injured	62

A brief review of the totals here presented, compared with those of last year, will be of interest. Contrasted with last year, the number of mines and openings of every class is but eight more than in the preceding report, a variation somewhat less than that noted in former years. The number of shipping mines are less by six, while there has been an increase of fourteen in small or local mines, notwith-standing a reported reduction of 40,649 tons from the output of latter class of mines. The increase of nearly five million tons this year over last, was produced by the shipping mines. The number of counties from which coal was produced—fifty-two—remains unchanged.

The possible output of all the mines in the State, as estimated last year was 121 per cent more than the actual output; on the same basis this per cent has been reduced nearly one-half, showing the possible increase in the capacity of all existing mines to be only 75 per cent more than the output of this year.

Considered from a strictly commercial standpoint, the item of greatest interest attached to these returns is necessarily that affecting the annual production. In point of tonnage the year for which this report is made materially exceeds that of any former one. Compared with that of 1898, the increase represents 4,835,146 tons, or 25 per cent.

It would be manifestly misleading to figure the per cent of increase on the reported tonnage of last year, as the production for that period was nearly one and one-half million tons less than that of 1897, the shortage being explained and accounted for by the general suspension of mining operations, which reduced the tonnage for that year. Computed on the basis of the production for 1897, which, up to that time was the greatest in the history of the State, the percentage of increase is still much in excess of any former year. The output for 1897 was 20,072,758 tons—less by 3,361,687 tons, or 16 per cent, than that for the present year. This increase is more notable when it is considered that it occurred during the first complete year when the mine operators were confined to the limitations of the eight-hour work-day, and is another evidence of the general improvement in the industrial conditions of the country.

The total number of employés this year shows an increase of 1,965 over last, the whole number being 36,991. This is a relatively greater increase than that formerly reported.

The most notable feature aside from the total annual production, is the increase in tonnage cut by machines. While the number of machines in use has increased by 47, the product has increased from

3,415,635 tons to 6,085, 362, or 87½ per cent. The normal product of the machines was not fully represented last year, for the reason then assigned, that the suspension of 1897 was of longest duration at some of the largest machine mines. With all due allowance for this, the machine product has more than maintained the general ratio of increase throughout the State.

The reported number of fatal accidents during the year is 84, which is nine more than that recorded for last year. The number of fatal casualties, however, is relatively less when compared with the total tonnage. Last year the loss was one life for every 247,991 gross tons; this year the proportion is one to 278,982 gross tons. These figures indicate the hazardous character of the mining industry. The laws relating to mining, supplemented by the vigilance of the inspection corps, has materially reduced the number of accidents, which, without such precaution, would certainly have occurred. Beyond the general equipment of the mine, ventilation and the conditions of the haulage ways, the inspectors' jurisdiction does not extend. It is from falls of rock or coal at the working face that the major portion of accidents arise. Some are no doubt traceable to the carelessness of the individual workman, but most of them, it is fair to presume, are the result of secret dangers incident to the business, which can not be forseen or guarded against. Losses sustained in battle are heralded the world over, and subscriptions frequently made for the support of the victim's widow and family. In the dark recesses of the coal mine the revelry of death goes constantly on, and practically unnoticed. Few there are indeed, who, while enjoying the light of their firesides, are ever disturbed by the thought that with the consumption of every quarter of a million tons of coal, there is burned the flesh and bones of some unfortunate man. This. too, in addition to the numerous accidents which have become almost a daily occurrence. The more salient features of the coal statistics for this year will be better understood by an examination and comparison of the tables here presented:

### CLASSIFICATION OF MINES.

Table I.—Shipping and Local Mines, by Districts.

D	TOTAL.				SHIPPI	NG.	Local.			
DISTRICT.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
First	84	7,498	3, 535, 316	37	7, 125	3, 349, 173	47	373	186, 143	
Second	185	6,631	3,326,000	45	5,925	3,077,381	140	706	248, 619	
Third	211	1,799	729, 132	23	1,178	582,795	188	621	146, 337	
Fourth	87	4,655	3,357,737	37	4,260	3, 204, 156	50	395	153, 581	
Fifth	87	6, 401	4,810,626	51	6,163	4,753,508	36	238	57, 118	
Sixth	104	5,008	4, 283, 258	72	4,854	4, 222, 094	32	154	61,164	
Seventh	131	4,999	3, 392, 376	57	4,763	3, 342, 249	74	236	50, 127	
The State	889	36,991	23, 434, 445	323	34, 307	22,531,356	566	2,684	903,089	

Of the 889 mines in the State, 323 shipping mines produce 22,531,-356 tons of the entire output. Notwithstanding there has been an increase during the year of 14 local mines, they report a reduced production of over 40,000 tons. An increase of six in the number of shipping mines compared with last year, return an increase of 4,575,795 tons. The product of the local mines is gradually disappearing as a factor in the industry. The percentages given in the the following table confirms this conclusion:

Table II.—Percentages of Shipping and Local Mines, by Districts.

Desmos	5	SHIPPING		LOCAL.			
DISTRICT.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
First	44.05	95.55	94.73	55.95	4.45	5.2	
Second	24.32	89.35	92.53	75.68	10.65	7.47	
Third	10.90	65.48	79.93	89.10	34.52	20.0	
Fourth	42.53	91.51	95.43	57.47	8,49	4.57	
Fifth	58.62	96,28	98.81	41.38	3.72	1.19	
Sixth	69.23	96.92	98.57	30.77	3.07	1.48	
Seventh	43.51	95,28	98,52	56.49	4.72	1.48	
The State	36.33	92.74	96.15	63.67	7.26	3.85	

It will be observed that the mines representing those of a local character, comprising 64 per cent of the whole, furnish but 4 per cent of the entire product, and give employment to but 7 per cent of the total employés. Of the entire number, the shipping mines, compris-

ing but 36 per cent, employ 93 per cent of the men, and produce 96 per cent of the annual output. The following table classifies the mines of the State according to their output:

Table III.—Classification of Mines by Output and by Districts.

	Mines Producing-												
DISTRICT.	Under 1,000 tons.		under		1	10,000 and under 50,000 tons.		50,000 and under 100,000 tons.		100,000 tons and over.		Total.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	
First	25	11,774	30	86, 270	9	237,998	7	548, 678	13	2,650,596	84	3,535,316	
Second	65	31, 871	80	224,759	22	424,210	7	534, 190	11	2,110,970	185	3,326,000	
Third	151	50,508	45	110,926	11	232,008	3	187, 772	1	147, 918	211	729, 132	
Fourth	9	4,878	44	146, 850	13	282,817	9	723, 637	12	2, 199, 555	87	3, 357, 737	
Fifth	20	9,814	18	72,563	10	212, 119	18	1,339,936	21	3, 176, 194	87	4,810,626	
Sixth	18	6,400	20	67, 187	37	1,065,543	18	1,285,357	11	1,858,771	104	4, 283, 258	
Seventh	58	22, 337	24	82,393	21	422, 422	15	999,354	13	1,865,870	131	3,392,376	
The State.	346	137, 582	261	790, 948	123	2,877,117	77	5,618,924	82	14,009,874	889	23, 434, 445	

Compared with a similar classification last year, the most notable distinction is presented in the group of mines producing 100,000 tons and over. The number in this class has increased from 49 reported in 1898, to 82 this year, and the production from 7,608,053 to 14,009,874 tons. This indicates an unparalleled increase of 67 per cent in the number and 84 per cent in the product, emphasizing the rapid concentration of capital, and incidentally, the enlargement of industrial plants. In the following table of percentages is shown the relation of each of these groups to the total number of mines and product of the State:

Table IV.—Percentages of the total Number and Total Output of Specified Classes of Mines.

Mines Producing—	No.	Output.	Percentage of-		
ATINES I RODCCING	No.	Output.	No.	Output	
Less than 1,000 tons	346	137, 582	38,92	0.58	
One thousand and less than 10,000 tons	261	190,948	29.36	3.3	
Ten thousand and less than 50,000 tons	123	2, 877, 117	13.54	12.29	
Fifty thousand and less than 100,000 tons	77	5,618,924	8.66	23.99	
One hundred thousand tons and over	82	14,009,874	9.22	59.79	
Total	889	23, 434, 445	100.00	100.00	

The following table indicates the number of mines in the State which have been found in each of these classes for a series of years:

Table V.—Number of Mines in Specified Groups for a Series of Seventeen Years.

	Number of Mines Producing-							
YEAR.	Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 tons and over.	Total mines.		
1883	209	233	133	39	25	639		
1884	262	273	148	38	20	741		
1885	286	290	143	40	19	778		
1886	316	280	135	44	14	789		
1887	320	278	141	42	20	801		
1888	327	272	151	47	25	822		
1889	321	316	139	55	23	854		
1890	398	301	155	54	28	936		
1891	402	260	161	52	43	918		
1892	332	239	151	65	52	839		
1893	282	232	140	75	59	788		
1894	312	252	161	61	50	836		
1895	319	276	145	61	54	855		
1896	330	280	128	63	61	862		
1897	346	250	120	79	58	853		
1898	351	244	151	86	49	881		
1899	346	261	123	77	82	889		
Averages	321	267	142.6	57.5	40	828		
Percentages	38.77	32.24	17.22	6.94	4.83	100.00		

In this division of mines according to the output, it will be noted that, as compared with last year, the increase is confined to the second and fifth groups, particularly the latter, which shows a material increase over that of any former year. Following is a list of fifty-six mines in the State producing more than 100,000 and less than 200,000 tons each:

# Mines from which more than 100,000 Tons of Coal and less than 200,000 Tons have been delivered during the year 1899.

_			
Rank.	Companies.	Location.	Tons.
1	Whitebreast Fuel Co. "B"	Ladd	195, 904
2	Consolidated Coal Co. "Abbey" No. 3	Collinsville	188, 415
3	Chicago, Wilmington and Vermilion Coal Co. No. 1	Seatonville	188, 082
4	Muddy Valley Mining and Manufacturing Co	Hallidayboro	172,381
5	Big Muddy Coal and Iron Co. No. 7	Herrins	170, 722
6	Coal Valley Mining Co. No. 2	Sherwood	167,089
7	Consolidated Coal Co. No. 7	Stannton	160, 104
8	Catlin Coal Co	Catlin	157,760
9	Consolidated Coal Co. "Heinz' Bluff."	Collinsville	154, 294
10	Consolidated Coal Co. No. 10	Mt. Olive	150, 934
11	Star Coal Co. No. 2	Streator	149, 137
12	Big Muddy Coal and Iron Co. No. 5	Murphysboro	148, 744
13	Whitebreast Fuel Co. "C"	Dunfermline	147,918
14	LaSalle Co. Carbon Coal Co. No. 1	LaSalle	147, 210
15	Big Muddy Coal and Iron Co. No. 6	Murphysboro	146, 346
16	LaSalle Co. Carbon Coal Co. "LaSalle."	LaSalle	143, 183
17	Odin Coal Co	Odin	142,574
18	McLean Co. Coal Co	Bloomington	138,098
19	LaSalle Co. Carbon Coal Co. "Union."	LaSalle	135, 902
20	Penwell Coal Mining Co	Pana.	132,689
21	Western Coal and Coke Co. "Eden."	Sparta	132, 245
22	Capital Coöperative Coal Co. No. 2	Springfield	131,752
23	Star Coal Co. No. 3,	Carbon Hill	131, 479
24	Starne Coal Co	Springfield	131,458
25	Big Muddy Coal and Iron Co, "Harrison"	Murphysboro	127,854
26	Gardner and Wilmington CoaliCo. "B"	Clark City	127, 322
27	Hillsboro Coal Co	Hillsboro	127,035
28	Sangamon Coal Co	Springfield	126,677
29	Alden Coal Co	Wanlock	125,664
30	Coffeen Coal and Coke Co	Coffeen	125,000
31	Marquette Coal Co	Marquette	124, 629
32	Glenburn Coal Co	Glenburn	124,048
33	Horn Colliery Co.	DuQuoin	123, 529
34	Carterville Coal Co. "Bun."	Carterville	122,815
35	Oglesby Coal Co	Oglesby	122,543
36	Athens Mining Co. No. 2	Athens	121,593
37	Muren Coal and Ice Co	Belleville	120,000
38	Consolidated Coal Co.	Missionfield	118,965

#### List—Concluded.

Rank.	Companies.	Location.	Tons.
39	Wabash Coal Co. No. 2	Athens	117,069
40	Black Diamond Coal and Tile Co	Iles Junction	116, 170
41	Consolidated Coal Co, "Gillespie."	Gillespie	113,907
42	Brookside Coal Co. No.1	Grape Creek	112,958
43	Springfield Coal Mining and Tile Co	Springfield	111, 167
44	Ohio and Mississippi Valley Coal Co. No. 2	Marion	110,843
45	Illinois Central Coal and Salt Co. "St. John."	St. John	109,500
46	Newsam Bros. "Kingston."	Peoria	109,438
47	Springfield Iron Co	Ridgely	108, 146
48	Wabash Coal Co	Dawson	107,631
49	Pittenger & Davis Mining and Mfg Co. "Big 4."	Centralia	105,779
50	Chicago-Virden Coal Co	Auburn	102, 457
51	Chicago-Virden Coal Co. No. 1	Virden	101, 422
52	Chicago and Minonk Coal Co	Minonk	101,000
53	Sorento Prospecting and Manufacturing Co	Sorento	100,955
54	Cantrall Coöperative Coal Co	Cantrall	100, 916
55	DuQuoin Union Coal Co. "Browning."	DuQuoin	100,000
56	DuQuoin Union Coal Co. "Enterprise."	DuQuoin	100,000
	Total		7,331,752

The following list of twenty-five mines produced more than 200,-000 tons during the year:

Mines from which more than 200,000 Tons of Coal have been delivered during the year 1899.

Rank.	Companies.	Location.	Depth of mine.	Thickness of seam.	Manner of working.	Tons.
1	Chicago, Wilmington and Ver. Coal Co. No. 1	Streator	96	8	P. R.	372, 433
2	Spring Valley Coal Co. No. 1	Spring Valley	345	3.6	L.W.	331,757
3	Chicago, Wilmington and Ver. Coal Co. No. 2	Streator	116	6	P. R.	329,069
4	Braceville Coal Co	Braceville	103	3.2	L.W.	316, 353
5	Kelleyville Coal Co. No. 3	Westville	212	7	Р, В.	303,089
6	St. Louis and Big Muddy Coal Co	Carterville	90	7	••	300, 591
7	Madison Coal Co. No. 2	Glen Carbon	110	6	* *	293,559
Ş	Kelleyville Coal Co. No. 2	Westville	200	7	* *	288,035
9	Spring Valley Coal Co. No. 2	Spring Valley	342	3,6	L.W.	284,892

List—Concluded.

Rank.	Companies.	Location.	Depth of mine.	Thickness of seam.	Manner of working.	Tons.
10	Consolidated Coal Co. No. 6	Staunton	322	5	P. R.	271,664
11	Madison Coal Co. No. 5	Mount Olive	435	5	* *	268,077
12	Taylorville Coal Co	Taylorville	462	7.6		255,060
13	Spring Valley Coal Co. No. 3	Spring Valley	481	3.6	L.W.	252, 810
14	Westville Coal Co	Westville	210	7	P. R.	251,624
15	Himrod Coal Co. No. 1	Westville	90	8		250, 440
16	Wilmington Coal Mining and Mfg Co	Diamond	105	3	L.W.	235,000
17	Big 4 Wilmington Coal Co	Coal City	90	3	* *	230, 232
18	Develin Coal Co. No. 1	Toluca	512	2.8		229, 705
19	Consolidated Coal Co. No. S	Mount Olive	410	5	P. R.	225, 419
20	Mt. Olive and Staunton Coal Co	Staunton	292	6		219,229
21	Madison Coal Co. No. 4	Glen Carbon	130	6		218,697
22	Himrod Coal Co. No. 1	Westville	200	7		215, 576
23	Riverton Coal Co. No. 2	Riverton	232	5	**	208, 569
24	Star Coal Co. 2	Carbon Hill	98	3	L.W.	207, 733
25	Breese Coal Co	Breese	400	7.6	Ρ. R.	203,999
	Total					6,566,851
					1	

Of the number here reported six produced over 300,000 tons. Last year only one mine in the State—the St. Louis & Big Muddy Coal Co., located at Carterville--returned a tonnage exceeding 300,000, and only six others whose output exceeded 200,000 tons each.

The reduction in this class of mines, compared with that reported in 1897, was due to the suspension. This year 25 mines report an output exceeding 200,000 tons.

Special interest attaches to the class of mines producing over 300,000 tons, not particularly on account of their number so much as the reduced time of operation caused by the observance of the eight-hour work-day. It is important in analyzing these returns, to consider the method of working, the depth of mine, and the thickness of the seam. The Chicago, Wilmington & Vermilion Coal Company's mine No. 1 stands at the head of the list, with a production of 372.433 tons. Following that is the Spring Valley Coal Company's mine No. 1, with an output of 331,757 tons. The widest differences as to depth and size of seam are here presented. The mine at Spring Valley is

nearly four times the depth of that at Streator, while the size of the seam is less by more than one half.

This is by far the largest list of the kind ever reported. It conveys a strong suggestion of the great struggle for supremacy which is everywhere apparent, and defines the policy of economics as characterizing modern industrialism. It is gratifying to know that the adoption of the eight-hour work-day has not seriously interrupted the process of accomplishing the most within the shortest space of time.

The gains and losses in the number of mines in the several inspection districts during the year are shown in the following table:

Table VI.—Gain and Loss in Number of Mines, by Districts.

District.	Nunber of mines, 1898.	Number of new mines, 1899	Number of aban- doned mines, 1899	Number of mines, 1899	Gain.	Loss.
First	86	11	13	84		2
Second	184	25	24	185	1	
Third	217	53	59	211		6
Fourth	94	2	9	87		7
Fifth	79	10	2	87	8	
Sixth	98	13	7	104	6	
Seventh	123	15	7	131	8	
The State	881	129	121	889	23	15
Net gain					8	

The Third inspection district, which, in point of production, is the least important in the State, returns the greatest number of new and abandoned mines. Operations, as a rule, in that field are confined to local or drift mines. Comparatively little capital is required and many openings are made merely to supply the owner and his immediate neighbors with fuel for the season.

## THE OUTPUT FOR THE YEAR.

The aggregate tonnage of the State, with the percentages of lump and other grades of coal, is given by districts in the following table:

Table VII.—Output of the State, by Districts.

	Total	Tons	Tons	Percentage of-			
DISTRICT.	output. Tons.	of lump.	of other grades.	Lump.	Other grades.		
First	3, 535, 316	2,677,359	857, 957	75.73	24.77		
Second	3, 326, 000	2,669,631	656, 369	80.27	19.73		
Third	729, 132	600, 280	128,852	52.33	17.67		
Fourth	3,357,737	2, 404, 385	953, 352	71.9	28.1		
Fifth	4,810,626	3, 480, 311	1,330,315	72.35	27.65		
Sixth	4, 283, 258	3, 294, 077	989, 181	76.91	23.09		
Seventh	3, 392, 376	2,301,555	1,090,821	67.84	32.16		
The State	23, 434, 445	17, 427, 598	6,006,847	74.37	25.68		

Out of a total of 23,434,445 tons produced during the year ended June 30, 1899, 17,427,598 tons, or 74.37 per cent was lump coal, and the balance was coal of other grades. The Seventh district returns the smallest, and the third the largest percentage of lump coal. Aside from these the ratio for the State is substantially uniform. The First district shows the largest increase compared with the preceding year, while the Fifth district more than maintains its record in returning the greatest output.

In the table following the product of the districts and of the State for the present and preceding year is compared:

Table VIII.—Output of 1898 and 1899 Compared, by Districts.

District.	Output, 1898. Tons.	Output, 1899. Tons.	Gain.	Loss.
First	2,269,362	3, 535, 316	1, 325, 954	
Second,	2,551,110	3, 326, 000	774.890	
Third	721,846	729, 132	7,286	
Fourth	2, 572, 059	3, 357, 737	785,678	
Fifth	3,925,690	4,810,626	884,936	
Sixth	3,459,932	4, 283, 258	825, 326	
Seventh	3, 159, 300	3, 392, 376	233,076	,
The State	18,599,299	23, 434, 445	4, 536, 146	

The increase of nearly 5,000,000 tons over the preceding year is quite evenly distributed. For the first time in the history of the State, every district reports an increase nearly in proportion to its total output, excepting the first, where the increase amounts to over a million and a quarter tons. This general distribution of business would seem to indicate that, from a competitive standpoint, the several districts, so far as prices and labor conditions are concerned have now reached a basis of substantial uniformity.

A record of the total tons produced in the State for each of the years for which a report has been made by the bureau, is here presented.

Table IX.—Output of the State for Eighteen Years.

	Total	Tons	Tons	PERCENT	AGE OF-
YEAR.	output. (Tons.)	of lump.	of other grades.	Lump.	Other grades.
1882	11,017,069	9, 115, 653	1,901,506		
1883	12, 123, 456	10,030,991	2,092,465		
1884	12, 208, 075	10, 101, 005	2,107,070		
1885	11,834,459	9,791,874	2,402,585		
1886	11, 175, 241	9, 246, 435	1,928,806		
1887	12, 423, 066	10, 278, 890	2, 144, 176		
1888	14,328,181	11,855,188	2, 472, 993		
1889	14,017,298	11,597,963	2, 419, 335		
1890	15, 274, 727	12,638,364	2,636,363	82.74	17.2
1891	15,660,698	12,960,224	2,700,474	82.76	17.2
1892	17,062,276	14,730,963	3, 131, 313	82,47	17.5
1893,	19,949,564	16, 112, 899	3,836,655	80.77	19.2
1894	17, 113, 576	13, 865, 284	3, 248, 292	81.02	18.9
1895	17,735,864	14,045,962	3,689,902	79.25	20.7
1896	19,786,626	14, 210, 024	5,576,602	71.86	28.1
1897	20,072,758	14,672,241	5,400,517	73.10	26.9
1898	18, 599, 299	14,208,795	4,390,504	76.39	23.6
1899	23, 434, 445	17, 427, 598	6,006,847	74.37	25.6

Prior to the year 1891 the grades of coal were not separated, when this information was required and supplied in the reports of the inspectors for 1891, the ratio for the State was developed and applied to the product of the preceding nine years.

The quantity returned under the head of "other grades" has varied from 17 per cent in 1891, to 28 per cent in 1896. Last year it was 24 per cent, while this year shows a slight increase over that figure. Under the prevailing system of paying miners on the basis of gross weight, this fluctuation is not important, especially where it does not reduce the quantity of salable coal or increase the waste. Until quite recently the exactions of the ordinary market were of such a character as to necessitate the greatest care in the handling of coal. and at many points various sized screens were used in its preparation. Just what percentage of specially prepared coal is omitted or included under the miscellaneous designation of "other grades" is not apparent. It would seem from the above table that the adoption of the gross weight method has not, as some apprehended, resulted in an increased waste. In addition to the annual tonnage the following table indicates the number of men engaged in the industry for each of a series of years:

Tarle X.—Output of the State for 18 Years, and the Mines and Men Producing it.

Year.	Mines.	Men.	Tons.	Year.	Mines.	Men.	Tons.
1882	704	20, 290	11,017,069	1892	839	33, 632	17, (62, 276
1883	639	23, 939	12, 123, 456	1893	788	35,390	19, 949, 564
1884	741	25,575	12,208,075	1894	836	38,477	17, 113, 576
1885	778	25,946	11,834,459	1895	874	38, 630	17, 735, 564
1886	787	25,846	11, 175, 241	1896	901	37,057	19, 786, 626
1887	801	26,804	12, 423, 066	1897	853	33,788	20, 072, 755
1888	822	29,410	14, 328, 181	1898	881	35,026	18, 599, 299
1889	854	30,076	14,017,298	1899	889	36,991	23, 434, 443
1890	936	28,574	15, 274, 727	18 years			253, 816, 678
1891	918	32,951	15,660,698				

An inquiry concerning the agency employed in the transportation of coal in the mines developed the facts set out in the following table:

Table XI.—Showing the Haulage of Coal in the Mines in the State, and the Number of Horses and Mules Employed, by Counties.

## FIRST DISTRICT.

Kankakee	BY ELECTRICITY		By Cable.		By Horse or Mule.		By Hand.		of and
COUNTY	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	Number horses mules.
Grundy					9	1, 255, 787	13	24,545	209
Kankakee					1	127, 322	1	1,696	42
*LaSalle	1	329,069			15	1,626,052	26	20,818	278
Livingston					. 4	90,663	11	26,585	30
Will					1	27, 149	2	5,630	8
Total	1	329,069			30	3, 126, 973	53	79, 274	567

<sup>\*</sup> Mules are used at the C., W. & V. Coal Co. No. 2 mine to deliver the coal to the parting, from thence it is hauled to the bottom by electric motor.

## SECOND DISTRICT.

	By Ele	CTRICITY	Ву (	CABLE.		ORSE OR ULE.	By	HAND.	of and
County.!	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tous.	No. of mines.	Tons.	Number horses mules.
Bureau					9	1, 398, 319	10	12, 205	284
Henry					3	14,490	30	76,775	24
*Marshall			1	93, 287	2	246, 306	9	2, 985	62
*Mercer			3	377, 127	2	98, 300	12	21, 164	101
*Peoria			6	279,458	28	424,880	25	40,360	105
Rock Island					1	300	22	41,297	16
Stark							20	23,997	17
Woodford			1	101,000	1	73, 750			36
Total			11	1,750,872	46	1, 256, 255	128	218,783	645

<sup>\*</sup> At ten mines in these counties the coal is hauled from the face to the parting by mules\* from thence to the shaft or tipple by cable.

# Table XI.—Continued.

#### THIRD DISTRICT.

	By Electricity		By Cable.		By Horse or Mule.		By HAND.		and
County.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	Number horses mules,
Brown							15	2,630	
Fulton					26	562, 488	52	38,598	153
Hancock							5	5,498	. 6
Knox							37	43,214	22
McDonough							50	51, 494	11
Schuyler					3	4,212	8	6,920	3
Warren							15	14,080	3
Total					29	566, 700	182	162, 432	198

## FOURTH DISTRICT.

	By Electricity		Вт	By Cable.		By Horse or Mule.		HAND.	of	
COUNTY.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	Number horses mules.	
Cass							2	3, 430	1	
†Logan			1	99, 962	2	86,019			33	
Macon					3	197,048			34	
†McLean			1	138,098	4	71,356			29	
Menard					10	427,939			52	
Tazewell					10	109,379	2	2,639	25	
*Vermilion			2	237,006	45	1,863,296	1	1,200	252	
Total			4	475,066	74	2,755,037	5	7,269	426	

<sup>†</sup> Mules are used for gathering the coal from the working rooms.

<sup>\*</sup> Does not include 120,365 tons produced by four strip mines.

## Table XI.—Continued.

### FIFTH DISTRICT.

	By Ele	CTRICITY	Ву (	CABLE.		ORSE OR	By	HAND.	of and
COUNTY.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	Number horses mules,
Calhoun					1	4,118			4
*Christian			2	120, 120	4	452,339			74
Greene							8	14,370	8
Jersey							6	4,050	3
*Macoupin	1	150,934	1	271,664	12	1, 220, 656	7	3,420	231
Montgomery					5	349,911	1	4,290	40
Morgan							2	4,800	2
*Sangamon			1	131,752	24	1,950,620	1	1,200	246
Scott							4	20,617	
Shelby					1	98,637	6	7,128	13
Total	1	150,934	4	523, 536	47	4,076,281	35	59,875	621

<sup>\*</sup> At two mines in Christian county, two in Macoupin and one in Sangamon mules are used to haul the coal from the working rooms to places convenient to be hauled by cable or electric motor to the bottom of the shafts.

## SIXTH DISTRICT.

County.	BY ELECTRICITY		By Cable.		By Horse or Mule.		By HAND.		of and
	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	Number horses mules,
Boud					1	100,955			17
Clinton					4	433,378	2	1,357	34
Madison					13	1, 392, 072	13	11,905	140
Marion	1	111, 271			5	382,846			117
St. Clair					65	1,849,474			204
Total	1	111,271			88	4, 158, 725	15	13, 262	512

## Table XI.—Cencluded.

#### SEVENTH DISTRICT.

Вұ		CTRICITY	Ву (	By Cable.		By Horse or Mule.		IAND.	of Hill	
COUNTY.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	To s.	Number borses	
Gallatin							9	16,754	1	
Hamilton							2	640		
Jackson					18	870, 763	9	4,948	14	
Jefferson					2	33, 207				
Johnson					5	4,956	'			
Perry					20	874,832	5	4,590	15	
Randolph					13	374, 323			4	
Saline					12	91,588	6	2,560	2	
Washington					4	34,460				
Williamson					19	1,077,215	7	1,540	15	
Total					93	3, 361, 344	35	31,032	55	

# Recapitulation of Haulage at Mines and Number of Horses and Mules Employed, by Districts.

DISTRICTS.  No. of Ton. of Tons. of Tons. of Tons. of Tons. mines mines											
No. of mines         Ton. of mines         Tons. of m		BYELE	ECTRICITY	By Cable.				By Hand.		of and	
Second         11         850,872         46         2,256,345         128         218,783           Third         29         566,700         182         162,352           *Fourth         4         475,066         74         2,755,037         5         7,209           Fifth         1         150,934         4         523,536         47         4,076,281         35         79,875           Sixth         1         111,271         88         4,269,996         15         13,262           Seventh         93         4,158,725         38         31,032		of	Ton.	of		of	Tons.	of	Tons.	Number borses mules	
Third         29         566,700         182         162,332           *Fourth         4         475,066         74         2,755,037         5         7,269           Fifth         1         150,934         4         523,536         47         4,076,281         35         79,875           Sixth         1         111,271         88         4,269,996         15         13,262           Seventh         93         4,158,725         38         31,032	First	1	329,069			30	3, 126, 973	53	79,2 1	567	
*Fourth	Second			11	850, 872	46	2, 256, 345	128	218,783	645	
Fifth.         1         150,934         4         523,536         47         4,076,281         35         79,875           Sixth         1         111,271         88         4,269,996         15         13,262           Seventh         93         4,158,725         38         31,032	Third					29	566,700	182	162, 482	198	
Sixth     1     111,271     88 4,269,996     15 13,262       Seventh     93 4,158,725     38 31,032	*Fourth			4	475,066	74	2,755,037	5	7,269	426	
Seventh	Fifth	. 1	150,934	4	523,536	47	4,076,281	35	19,875	621	
	Sixth	. 1	111, 271			88	4, 269, 996	15	13,262	512	
The State 3 591,274 19 1,849,474 407 20,301,405 456 571,927	Seventh					93	4, 158, 725	38	31,032	557	
	The State	. 3	591, 274	19	1,849,474	407	20, 301, 405	456	571,927	3,526	

<sup>\*</sup> Four strip mines in Vermilion county, 120,365 tons, not included.

From the above figures it will be noted that of the total product, but 591,274 tons were moved by electric appliances. These were limited to LaSalle county in the First district, Macoupin county in the fifth, and Marion county in the Sixth. The amount hauled by the cable method was 1,849,474. Over 20,000,000 tons were hauled by horses and mules. The necessity for greater speed and economy in the transportation of coal will, to some extent, displace the old method of haulage. It cannot be entirely removed, however, the figures indicate that the services of the mule are as necessary in the mine as they used to be in the army.

## OUTPUT BY COUNTIES.

While the entire coal production of the State comes from 52 counties, the principal portion is obtained from a fraction of this number. Selecting the counties which produced over half a million tons, in proportion to their out put for the two years, 1898–1899, affords the following table:

Table XII.—Relative Rank of the Principal Coal Producing Counties, 1899 and 1898.

Rank.	Counties-1899.	Tons.	Rank.	Counties-1898.	Tons.
1	Vermilion	2,221,867	1	Sangamon	1,763,863
2	Sangamon	2,083,572	2	St. Clair	1,600,752
3	LaSalle.	1,975,939	3	Vermilion	1,520,699
4	St. Clair	1,849,474	4	Macoupin	1,264,926
å	Macoupin	1,646,674	5	LaSalle,	1, 165, 490
6	Bureau	1,410,524	6	Williamson	915, 108
7	Madison	1,403,977	7	Jackson	911, 194
8	Grundy.	1,280,332	8	Bureau	865,892
9	Williamson	1,078,755	9	Perry	845, 329
10	Perry	879, 422	10	Grundy.	796, 249
11	Jackson	875,711	11	Marion	714, 513
12	Peoria	744,698	12	Peoria	640, 193
13	Fulton	601,084	13	Madison	630, 769
14	Christian	572,459	14	Fulton	563, 397
**	Total	18,624,488	14	Total	14, 198, 374

The general increase in production is observable in this table, from the manner in which it affects the number and rank of counties. Nine counties report over 1,000,000 tons, and two of them over 2,000,000 tons. Last year but five counties in the State produced over 1,000,000 tons. Vermilion county in the Fourth district leads, displacing Sangamon, while LaSalle county, in the First district, has gone from fifth to third rank. Fourteen counties in the State produced 18,624,488 tons, or 79 per cent of the entire output of the 52 counties. The following table presents in alphabetical order a list of the coal counties of the State, with the number of mines, men and tons reported for each:

Table XIII.—Output of the State, by Counties.

County.	Dist.	Mines.	Men.	Tons.	County.	Dist.	Mines.	Men.	Tons.
Bond	6	1	181	100; 955	Marion	6	6	927	494, 117
Brown	3	15	30	2,630	Marshall	2	12	681	342,578
Bureau	2	19	3,071	1,410,524	McDonough	3	50	281	51,494
Calhoun	5	1	20	4,118	McLean	4	5	386	209,454
Cass	4	2	19	3,430	Menard	4	10	570	427,939
Christian	5	6	879	572,459	Mercer	2	17	790	496,591
Clinton	6	6	482	434,735	Montgomery	5	6	511	354, 201
Fulton	3	78	1,200	601,084	Morgan	5	2	13	4,800
Gallatin	7	9	73	16,754	Peoria	2	59	1,133	744,698
Greene	5	8	50	14,370	Perry	7	25	1,335	879, 422
Grundy	1	22	3,298	1,280,332	Randolph	7	13	486	374,323
Hamilton	7	2	11	640	Rock Island	2	23	149	41,597
Haucock	3	5	26	5,498	Saline	7	18	173	94, 148
Henry	2	33	283	91, 265	Sangamon	5	26	2,507	2,083,572
Jackson	7	27	1, 295	875, 711	Schuyler	3	11	43	11, 132
Jefferson	7	2	85	33, 207	Scott	5	4	53	20,617
Jersey	5	6	20	4,050	Shelby	5	7	173	105,765
Johnson	7	5	25	4,956	Stark	2	20	82	23, 997
Kaukakee	1	2	210	129,018	St. Clair	6	65	2, 125	1,849,474
Knox	3	37	167	43, 214	Tazewell	4	12	214	112,018
LaSalle	1	42	3,566	1,975,939	Vermilion	4	52	2,824	2, 221, 867
Livingston	1	15	314	117,248	Warren	3	15	52	14,080
Logan	1	3	261	185,981	Washington	7	4	87	34,460
Macon	4	3	378	197,048	Will	1	3	100	32,777
Macoupin	5	21	2, 175	1,646,674	Williamson	7	26	1,427	1,075,755
Madison	6	26	1, 295	1, 403, 977	Woodford	2	2	442	174,750

LaSalle county represents the greatest number of employés; 3,566 men are employed in 42 mines. The county employing the greatest number of men in proportion to the number of mines is Bureau in the Second district, nineteen mines furnish employment for 3,071 men. The next in this class is Grundy, in the First District, whose 22 mines give employment to 3,298 men.

#### DISPOSITION OF OUTPUT.

For the first time, in the report for last year, statistics were collected relative to the disposition of the output, representing the number of tons shipped, tons sold to local trade, and tons consumed and wasted at the plant. It has been deemed advisable to continue this record, and the following table indicates the manner in which this year's product was disposed of.

Table XIV.—Disposition of Output, by Districts.

District.	Total tons.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant.
First	3, 535, 316	2,999,604	438, 152	97, 560
Second	3, 326, 000	2,877,142	352, 594	96, 264
Third	729, 132	561,664	149, 971	17,497
Fourth	3, 357, 737	2,746,842	504,031	106,864
Fifth	4,810,626	4,095,235	439, 937	275, 454
Sixth	4, 283, 258	3,673,703	282, 887	326, 668
Seventh	3,392,376	3,064,957	153,468	173, 951
The State	23, 434, 445	20,019,147	2,321,040	1,094,258

Compared with the preceding year the increase in the amount sold to local trade is but 171,232 tons, while the amount shipped has increased 4,422,259 tons, with an increase of 241,655 tons consumed and wasted at the plant, an amount relatively less than last year, when the increased production is considered. In the table of percentages given below, these facts are more distinctly set forth.

Table XV.—Percentages of Disposition, by Districts.

District.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant.
First.	84.85	12.39	2.76
Second	86.50	10.60	2.90
Third	77.03	20.57	2.40
Fourth	81.81	15.01	3.15
Fifth	85.12	9.15	5.73
Sixth	85.77	6.60	7.63
Seventh	90.35	4.52	5.13
The State	85.42	9.90	4.68

According to this, 85 per cent of all coal is delivered on track for shipment, 10 per cent is disposed of at the mine, and 5 per cent consumed and wasted at the mine. The quantity reported in the last column has not, and possibly can not be separated, hence there is no means of determining what per cent of it is utilized and what represents loss. The per cent of absolute waste is exceedingly small, and illustrates the care exercised in the management of the industry. The table following shows the disposition of the product by counties:

Table XVI.—Disposition of Output, by Counties.

FIRST DISTRICT.

County.	Total tons.	Tons shipped.	Tons sold to loca trade.	Tons consumed (and wasted) at the plant.
Grundy	1,280,332	1,200,113	49, 403	30,816
Kankakee	129,018	118,888	5,748	4,382
LaSalle	1,975,939	1,606,742	315, 522	53,675
Livingston	117,248	52,812	58, 121	6,315
Will	32,779	21,049	9,358	2,372
The district	3,535,316	2,999,604	438, 152	97.560
Percentages	100.00	84.85	12.39	2.76

# Table XVI.—Continued.

#### SECOND DISTRICT.

County.	Total tons.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant,
Bureau	1, 410, 524	1,324,664	45,931	39,929
Henry	91, 265	28,473	59, 380	3,412
Marshall	342,578	317,060	18,242	7,276
Mercer	496, 591	452, 515	28, 453	15,623
Peoria	744,698	606, 047	120, 552	18,099
Rock Island	41,597	2,633	37, 799	1, 165
Stark	23, 997		23, 137	860
Woodford	174,750	145,750	19,100	9,900
The district	3, 326, 000	2,877.142	352,594	96, 264
Percentages	100.00	86.50	10.60	2.90

## THIRD DISTRICT.

Count <b>y.</b>	Total tons.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant.
Brown	2,630		2,630	
Fulton	601,084	523, 256	62,871	14,957
Hancock	5,498	4,338	1,160	
Knox	43, 214		42,354	860
McDonough	51,494	33, 120	17, 174	1,200
Schuyler	11, 132	950	10,002	180
Warren	14,080		13, 780	360
The district	729, 132	561,664	149,971	17,497
Percentages	100.00	77.03	20.57	2.40

# Table XVI.—Continued.

#### FOURTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons sold to local trade.	Tons consumed and wasted) at the plant.
Cass.	3,430		3, 130	300
Logan.	185,981	141,568	33, 215	11, 198
Macon	197,048	65, 327	126,617	5, 101
McLean.	209, 454	77, 169	117,094	15, 191
Menard	427, 939	370,750	37,273	19, 916
Tazewell	102,018	39, 305	69,827	2,886
Vermilion	2, 221, 867	2, 052, 723	116,875	52, 269
The district	3, 357, 737	2,746,842	504, 031	106, 564
Percentages	100.00	81.81	15.01	3.15

#### FIFTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant.
Calhoun	4,118		4,118	
Christian	572,459	483,760	50,370	38, 329
Greene	14,370		14,370	
Jersey	4,050		4,050	
Macoupin	1,646,674	1,413,611	74,994	158,069
Montgomery	354, 201	298, 131	42,564	13,506
Morgan	4,800		4,800	
Sangamon	2,083,572	1,794,636	227, 698	61,238
Scott	20,617	16,590	3,527	500
Shelby	105, 765	88,507	13,446	3,812
The district	4,810,626	4,095,235	439,937	275, 454
Percentages	100.00	85.12	9.15	5.73

# $Table\ XVI.$ —Concluded.

## SIXTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant.
Bond	100, 955	79,796	9,878	11,281
Clinton	434,735	380,700	25, 437	28,598
Madison	1,463,977	1, 165, 977	73,817	164, 183
Marion	494, 117	448,753	27, 324	18,040
St. Clair	1,849,474	1,598,477	146, 431	104, 566
The district	4, 283, 258	3,673,703	282.887	326,668
Percentages	100.00	85.77	6.60	7.63

## SEVENTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant.
Gallatin	16,754	10,021	6,533	200
Hamilton	640		640	
Jackson	875, 711	783, 258	32,825	59,628
Jefferson	33, 207	22,407	8,400	2,400
Johnson	4, 956	3,000	1,956	
Perry	879, 422	801,694	33, 764	43,964
Randolph	374, 323	341,268	23,944	9,111
Saline	94, 148	81. 103	10, 205	2,840
Washington	34, 460	19,000	10, 258	5, 202
Williamson	1,078,755	1,003,206	24,943	50,606
The district	3, 392, 376	3,064,957	153, 468	173, 951
Percentages	100.00	90.35	4.52	5.13

Following is a recapitulation of totals of the foregoing tables:

Table XVII.—Recapitulation of Disposition of Total Output of Shipping Mines, by Districts.

District.	Total tons.	Tons shipping mines.	Tons shipped.	Tons to local trade.	Tons consumed (and wasted at the plant,
First	3,535,316	3, 349, 173	2, 999, 604	253, 509	96,060
Second	3,326,000	3,077,381	2,877,142	111, 166	89,073
Third	729, 132	582, 795	561,664	6,304	14,827
Fourth	3, 357, 737	3, 204, 156	2,746,842	353,916	103, 398
Fifth	4,810,626	4,753,508	4,095,235	383, 409	271,864
Sixth	4,283,258	4,222,094	3, 673, 703	223, 351	325,040
Seventh	3, 392, 376	3, 342, 249	3,064,957	104, 305	172,987
The State	23, 434, 445	22,531,356	20, 019, 147	1,435,960	1,076,249

As the shipping mines contribute 96 per cent of the output, the disposition of their product is shown in the following table:

Table XVIII.—Disposition of the Output of Shipping Mines only by Districts.

	m	PERCENTAGE OF-			
DISTRICT.	Total output of shipping mines.	Tons shipped.	Tons sold to local trade.	Tons consumed (and wasted) at the plant.	
First	3, 349, 173	89.56	7.57	2.87	
Second	3,077,381	93.49	3.61	2.90	
Third	582, 795	96.38	1.08	2.54	
Fourth	3, 204, 156	85.73	11.05	3.22	
Fifth	4,753,508	86.15	8.07	5.78	
Sixth	4, 222, 094	87.01	5.29	7.70	
Seventh	3, 342, 249	91.70	3.12	5.18	
The State	22, 531, 356	20, 019, 147	1, 435, 960	1,076,249	
Percentages	100.00	88.85	6.37	4.78	

## DISTRIBUTION OF COAL TO RAILROADS.

Following is a statement showing the number of tons of coal transported by the railroads of this State, and the number of coal producing counties through which they run:

Table XIX.—Railroads which have hauled the Coal Output of the State, and the tonnage by Counties, contributed to each.

Railroads and Counties.	Tons received by each road.	Total tons received.
Illinois Central—   Williamson     Perry	705, 102 671, 089 661, 669 463, 874 463, 281 435, 542 228, 223 88, 507 88, 524 73, 662 70, 783 54, 500 35, 760 27, 014 25, 990 8, 000	
Macon Chicago & Eastern Illinois— Vermilion Williamson Jefferson	1,691,742 298,104 11,203	4,534,779
Chicago, Burlington & Quiney— LaSalle Bureau Fulton Mercer Perera McDonough Henon Sout Hatcock Schuyler Livingston	762, 657 362, 115 328, 724 214, 531 115, 817 33, 120 17, 303 16, 590 4, 338 950 61	2,001,049
Wabash— Macoupin Sangamon Christian Vermilion Macon Madison Montgomery Kankakee Livingston LaSalle	595, 703 579, 102 221, 000 187, 132 35, 201 32, 330 31, 216 30, 471 533 400	1,713,088
Elgin, Joliet & Eastern— Grundy	1,033,916	1,033,916
Chicago & Alton— Sangamon Macoupin Menard Grundy Logan Laxalle Will McLean Livingston	356, 240 302, 856 152, 729 101, 481 37, 736 33, 504 21, 049 17, 060 49	1,022,704

# Table XIX.--Continued.

Railroads and Counties.	Tons received by each road.	Total tons received.
Chicago & Northwestern—		_
Bureau	830, 805	1 00 000
St. Louis, Peoria & Northern-		\$30,805
Madison. Macoupin	440, 404 252, 294	
Sangamon	17, 624	710, 322
Baltimore & Ohio Southwestern-	0.0.700	110,022
Clinton St. Clair	380, 700 207, 696	
Sangamon	45,703	
Christian	15,988 7,339	
Chicago, Peoria & St. Louis-		657, 426
Madison	238, 711	
MenardSangamon	218, 021 163, 973	
	1,0,017	620,706
Cleveland, Cincinnati, Chicago & St. Louis— Vermilion	173, 849	
Macoupin	155,617	
Montgomery	142, 111 81, 103	
Christian	18, 549	
McLean	18,549 17,060	
Johnson LaSalle	3,060 1,711	
Grundy	1,599	
Louisville, Evansville & St. Louis-		594,599
St. Clair	530, 209	
Marion	7,180	537, 389
Atchison, Topeka & Santa Fé—	404 700	
Marshall LaSalle	191, 700 160, 870	
Woodford	160, 870 91, 250	
Grundy Livingston	63, 117 S 072	
		515,069
Terre Haute & Indianapolis— Madison	442, 547	
Macon	6,025	448, 572
Louisville & Nashville-		** (012
St. Clair	387, 861 11, 204	
Gallatin	10,021	
Washington	7,800	416,556
Mobile & Ohio-	222 -	110, 55
Randolph	262, 729 121, 589	
St. Clair	5.537	
Chicago, Rock Island & Pacific-		393, 155
LaSalle	205,954	
Bureau	131, 744 9, 541	
Marshall	0,041	356, 239
Toledo, Peoria & Western— Peoria	156, 616	
Fulton.	77,640	
Livingston	5,337 1,000	
Tazewell	1,000	243, 593
Rock Island & Peoria— Mercer	237, 954	
Rock Island.	2, 333	240 2:-
		. 240, 317

# $Table\ XIX.$ —Concluded.

Railroads and Counties.	Tons received by each road.	Total tons received
Peoria & Pekin Union— Peoria Tazewell	207, 265 28, 705	235, 97
lowa Centra!— Peoria Fulton	122, 349 90, 392	
St. Louis, Chicago & St. Paul— Sangamon	168.560	212,74
Toledo, St. Louis & Kausas City— Montgomery. Bond Madison.	117, 000 37, 778 11, 985	168, 56
Wabash, Chester & Western— Perry Randolph	130, 595 4, 877	166,76
Jacksonville & Southeastern— Macoupin	81,004	135, 47
Jacksonville & St. Louis— Bond Macoupin Montgomery Marlon	42,018 25,017 7,804 1,585	81,00
Indiana, Illinois & Iowa— Kankakee. LaSalle	61, 403 2, 000	76, 42 63, 40
Peoria, Decatur & Evansville— Logan	33,049	
Toluca & Eastern— Marshall	32, 295	33,04
Lake Erie & Western— McLean Tazewell	17, 059 9, 600	32, 29
Fulton County Narrow Gauge— Fulton	26,500	26,659
Indiana, Decatur & Western— Macon	18,076	26,50
Centralia & Chester— Washington Marion	3, 200 425	18,070
Litchfield, Carrollton & Western— Macoupin	1, 120	3,62
Pawnee Sangamon	152	1,12
Total tons shipped by 35 railroads		20,002,57
SHIPPED BY WATER.		
Rock river, Henry county Illinois river, Peoria county Illinois and Michigan canal, LaSalle county. Mississippi river, Rock Island county.	11,170 4,000 1,104 300	40
Total shipped.		20,019,14

This information was collected for the first time in the Coal Report for 1898, and is continued here. There is but little change from last year in the order of these carriers, except the increase incident to the enlarged production, and in this respect the principal coal roads have shared in nearly equal proportions. The first six roads carried 12,161,742 tons, more than half of all the product shipped. Of these the Illinois Central, extending through eighteen of the principal coal counties, conveyed over four and a half million tons. The tonnage contributed by each county to the different railroads will be found in the table given below, followed by a statement of the names of railroads, number of counties and tons transported:

Table XX.—Counties which have produced the Commercial Coal of the State and the tonnage delivered to the several Railroads in each.

Counties and Railroads.	Tons delivered to each rail-road.	Total tons shipped.
Vermilion— Chicago & Eastern Illinois Wabash Cleveland, Cincinnati, Chicago & St. Louis	1, 691, 742 187, 132 173, 849	
Sangamon— Wabash Illinois Central Chicago & Alton St. Louis, Chicago & St. Paul Chicago, Peoria & St. Louis Baltimore & Ohio Southwestern St. Louis, Peoria & Northern Pawnee-	579, 102 463, 281 356, 240 168, 566 163, 974 45, 703 17, 624	
LaSalle— Chicago, Burlington & Quincy Illinois Central Chicago, Rock Island & Pacific Atchison, Topeka & Santa Fé Chicago & Alton Indiana, Illinois & Iowa Cleveland, Cincinnati, Chicago & St. Louis Illinois & Michigan Canal Wabash	762, 657 435, 542 208, 954 160, 870 33, 504 2, 000 1, 711 1, 104 400	
St. Clair— Louisville, Evansville & St. Louis Illinois Central Louisville & Nashville Baltimore & Ohio Southwestern Mobile & Ohio	530, 209 463, 874 387, 861 207, 696 8, 837	
Macoupin— Wabash Chicago & Alton. St. Louis, Peoria & Northern Cleveland, Chicago, Cincinnati & St. Louis. Jacksonville Southeastern Jacksonville & St. Louis. Litchfield, Carrollton & Western.	595, 703 302, 856 252, 294 155, 617 81, 004 25, 017 1, 120	
Bureau— Chicago & Northwestern Chicago, Burlington & Quincy Chicago, Rock Island & Pacific	830, 805 362, 115 131, 744	

# Table XX.—Continued.

Counties and Railreads.	Tons delivered to each rail- road.	Total tons shipped.
Grundy— Elgin Joliet & Eastern Chicago & Alton. Atchison, Topeka & Santa Fè. Cleveland, Cincinnati, Chicago & St. Louis.	1,033,916 101,481 63,117 1,599	
Madison— Terre Haute & Indianapolis. St. Louis, Peoria & Northern. Chicago, Peoria & St. Louis. Wabash. Toledo, St. Louis & Kansas City.	442, 547 440, 404 238, 711 32, 330 11, 985	
Williamson— Illinois Central Chicago & Eastern Illinois	705, 102 298, 104	
Perry— Illinois Central	671, 099 130, 595	
Jackson— Illinois Central Mobile & Ohio	661,669 121,589	
Peoria— Peoria & Pekin Union. Toledo, Peoria & Western Iowa Central Chicego, Burlington & Quincy Illinois River	207, 265 156, 616 122, 349 115, 817 4, 000	
Fulton— Chicago, Burlington & Quiney. Iowa Central Toledo, Peoria & Western Fulton County Narrow Gauge.	328, 724 90, 392 77, 640 26, 500	
Christian— Illinois Central Wabash Cleveland, Cincinnati, Chicago & St Louis. Baltimore & Ohio Southwestern.	228, 228 221, 000 18, 549 15, 988	
Mercer— Rock Island & Peoria Chicago, Burlington & Quincy	237, 984 214, 53	
Marion— Illinois Central Baltimore & Ohio Southwestern Lonisville, Evansville & St. Louis Jacksonville & St. Louis Centralia & Chester.	432, 224 7, 338 7, 180 1, 588 428	) )
C inton—Baltimore & Ohio Southwestern	480, 700	
Menard— Chicago, Peoria & St. Louis Chicago & Alton	218, 021 152, 729	
Randolph— Mobile & Ohio Illinois Central Wahash, Chester & Western	262, 729 73, 663 4, 877	2
Marshall— Atchison, Topeka & Santa Fé. Illinois Central Toluca & Eastern Chicago, Rock Island & Pacific.	191, 700 83, 529	

# Table XX.—Continued.

Counties and Railroads.	Tons delivered to each rail- road.	Total tons shipped.
Montgomery— Cleveland, Cincinnati, Chicago & St. Lonis Toledo, St. Louis & Kansas City. Wabash Jacksonville & St. Louis.	142, 111 117, 000 31, 216 7, 801	
Woodford— Atchison, Topeka & Santa Fé Illinois Central	91, 250	259, 131
Logan— Illinois Central . Chicago & Alton Peoria, Decatur & Evansville .	70, 785	145,750
Kankakee— Indhana, Illinois & Iowa	37, 736 33, 049	141, 568
Wabash Illinois Central Shelby—	61, 403 30, 471 27, 014	118,888
Hlinois Central.  Saline— Cleveland, Cincinnati, Chicago & St. Louis.	88, 507	88,507
Bond- Jacksonville & St. Louis	81, 103 42, 018	81, 103
Toledo, St. Louis & Kansas City  McLean— Illinois Central Chicago & Alton. Cleveland, Cincinnati, Chicago & St. Louis	25, 990 17, 060 17, 060	79, 796
Lake Erie & Western	17,059	77, 169
Macon— Wabash Indiana, Decatur & Western Illimois Central Terre Haute & Indianapolis.	35, 201 18, 076 6, 025 6, 025	
Livingston— Illinois Central Toledo, Peoria & Western Archison, Topeka & Santa FÉ Wabash Chicago, Burlington & Quiney Chicago & Alton	35, 760 8, 337 8, 072 533 61 49	65, 327
Tazewell— Peoria & Pekin Union Lake Erie & Western Toledo, Peoria & Western.	25,705 9,600 1,000	52, S12
MeDonough— Chicago, Burlington & Quincy	33, 120	39, 305
Henry- Chicago, Burlington & Quiney Rock River	17, 303 11, 170	33, 120
Jefferson— Louisville & Nashville Chicago & Eastern Illinois	11, 204 11, 203	25, 473
Will— Chicago & Alton		22,407
Washington— Illinois Central Louisville & Nashville Centralia & Chester	8, 000 7, 800 3, 200	21,049
Scott— Chicago, Burlington & Quincy	16,590	19,000 16,590

## Table XX.—Concluded.

Counties and Railroads.	Tons delivered to each rail- road.	Total tons shipped.
Gallatin— Louisville & Nashville	10,021	10,021
Hancock— Chicago, Burlington & Quincy	4,338	
Johnson— Cleveland, Cincinnati, Chicago & St. Louis	3,000	
Rock Island— Rock Island & Peoria Mississippi River	2,333	
Schuyler— Chicago, Burlington & Quincy.	950	2,633
The State42 counties		950
The State42 counties		20,019,147

# Illinois Coal delivered to Illinois Railroads—1899. (On Cars for Transportation and to Locomotives for Consumption.)

Railroads.	Number of counties.	Tous.
I Illinois Central	18	4, 534, 77
2 Chicago & Eastern Illinois	3	2.001.04
Chicago, Burlington & Quincy	11	1,856,20
Websch	10	1,713.08
Wabash 5 Elgin, Joliet & Eastern	ĭ	1,033,91
6 Chicago & Alton	9	1,022,70
7 Chicago & Northwestern	ĭ	830, 80
St. Louis, Peoria & Northern	3	710, 32
9 Baltimore & Ohio Southwestern	5	657, 42
Chiagra Parria & St. Lonie	3	620, 70
0 Chicago, Peoria & St. Louis 1 Cleveland, Cincinnati, Chicago & St. Louis	9	594.59
Oleverand, Chremath, Chicago & St. Louis	2	537, 38
2 Louisville, Evansville & St. Louis	5	515,00
Terre Haute & Indianapolis	2	448, 57
Louisville & Nashville	4	416.88
Makila C. Ohio	3	393, 15
Mobile & Ohio Chicago, Rock Island & Pacific	3	350, 23
Chicago, Aock Island & Facilie	4	243, 59
Foledo, Peoria & Western Rock Island & Peoria	9	240, 31
Peoria & Pekin Union	2 2 2	235, 97
Iowa Central	2	212.74
St. Louis, Chicago & St. Paul	î	168, 56
St. Louis, Chicago & St. Paul	3	166, 76
Toledo, St. Louis & Kansas City	2	135, 47
Wabash, Chester & Western	1	SI, 00
Jacksonville & Southeastern	4	76, 42
Jacksonville & St. Louis	2	
Indiana, Illinois & Iowa Peoria, Decatur & Evansville		63, 40
Peoria, Decatur & Evansville	1	33, 04 32, 29
Toluca & Eastern	1	
Lake Erie & Western	2	26, 65
Fulton County Narrow Gauge	1	26,50
Indiana, Decatur & Western	1	18,07
	2	3,62
Centralia & Chester		
Litchfield, Carrollton & Western	1	
3 Centralia & Chester Litchfield, Carrollton & Westeru 5 Pawnee	1	1, 12 15

# THE POSSIBLE OUTPUT OF EXISTING MINES.

An inquiry addressed last year to the operators of mines, developed the fact that the capacity of the plants, equipped as they then

were, was more than double the actual output. The average computed at that time for the State, showed that the output of the plants if continuously operated, could be increased 121 per cent. Assuming that the possible output as then reported, remained unchanged the following table reveals how this margin has been effected by the business of the present year:

Table XXI—Comparison of Actual Output with Possible Output of Existing Mines, by Districts.

District.	Output-1899. (Tons.)	Possible output, 1998. (Tons.)	Per cent of possible increase.
First	3, 535, 316	5, 121, 710	44.87
Second	3, 326, 000	5,908,740	77.65
Third	729, 132	1, 272, 500	74.52
Fourth	3, 357, 737	5,633,425	67.77
Fifth	4,810,626	9,537,550	98.26
Sixth	4,283,258	7, 180, 900	67.65
Seventh	3, 392, 376	6, 428, 100	<b>~9.4</b> 9
The State	23, 434, 445	41,082,925	74.88

Measured by the volume of this year's product, the estimated capacity is but 75 per cent in excess of the actual output.

# DAYS OF ACTIVE OPERATION.

The days of active operation for the several districts and the State for the year, is here presented:

Table XXII—Days of Active Operation, by Districts.

District.		E WORKI ALL MIN		AVERAGE WORKING DAYS OF SHIPPING MINES ONLY.			
o lottlett	Mines.	Men.	Days.	Mines.	Men.	Days.	
First	84	7,498	188.2	37	7, 125	208	
Second	185	6,631	181.5	45	. 5,925	211	
Third	211	1,799	146,3	23	1,176	185	
Fourth	87	4,655	199	37	4,260	221.6	
Fifth	87	6,401	190	50	6, 151	201.6	
Sixth	104	5,008	196.8	72	4,854	201	
Seventh	131	4,999	159	57	4,762	206.6	
The State	889	36,991	174.6	321	34, 253	205.7	

Taking all classes of mines, the average for the State is 175 days each; that for shipping mines is 206 days each. The days of operation; like the increase in production, is more evenly distributed among the several districts than formerly. The lowest average is found in the Third district, accounted for in a measure by its numerous small mines, and the greatest in the Fourth. The other five districts are practically uniform, with an average for the State of over 200 days. An opportunity of comparing the average days of operation for a series of years is afforded in the following table:

Table XXIII—Days of Active Operation. of Shipping Mines for a Series of Seven Years, by Districts.

	1893, 18		894.	94. 1895.		1896		1897.		1898.		1899.		
District.	Mines	Days	Mines	Days	Mines	Days	Mines	Days	Mines	Days	Mines	Days	Mines	Days
First	38	220	35	161.5	26	159.4	38	166	35	166.9	39	144.5	37	208
Second	26	228	26	171	28	176.1	46	198	46	183.2	48	171.1	45	211
Third	80	215	81	182.9	66	173	27	157	19	158.6	21	187.5	23	185
Fourth	56	251	63	194.7	64	188.5	40	210	36	207.7	39	190	37	221.
Fifth	101	233	90	186,9	94	192.6	50	197	50	202.1	51	172.3	50	201.
Sixth							72	196	73	194.8	72	170.6	72	201
Seventh							49	164	51	165.5	59	186.8	57	206.
The State	301	229.6	295	183.1	278	182.2	322	186	310	185.5	329	174,7	321	205.

This table is confined to the shipping mines, and gives the number on which each average is based. Everything being equal, the number of days of active operation would increase in proportion to the total production. A reduction of two-tenths in the length of the working day has not materially affected this ratio. It is ascertained that the average number of working days for this class of mines, was for the present year, 206 each, an increase over that of last year, of 31 days. The addition of more than one month to the working time of this class of employes is reflected in the augmented production and the increased pay roll. For the first time since the panic of 1893, the days of active operation exceed 200 for each of the mines included in the group here considered.

The following list indicates the number of days lost in the several districts on account of local strikes. The protracted suspension at Pana, involving three large mines, explains the loss reported from the Fifth district:

First District, days lost by strike	none
Second District, days lost by strike	157
Third District, days lost by strike	90
Fourth District, days lost by strike	587
Fifth District, days lost by strike	1972
Sixth District, days lost by strike	469
Seventh District, days lost by strike	502
Total.	3,777

# AVERAGE VALUE OF COAL.

Owners of coal mines who make returns to this office of the prices received for coal, report the average of all sales, which represents the actual price obtained for all coal sold. The prices thus reported are combined into averages, for counties, for districts and for the State-The following table exhibits the averages for the year for the districts and State:

Table XXIV—Average Value of Coal Per Ton at the Minc, by Districts.

District.	Total tons.	Av. value per ton.	Tons of lump coal.	Av. value per ton.	Tons of other grades.	Av. value per ton.
First	3,535,316	\$0,9532	2,677,359	\$1.139	857, 957	\$0.401
Second	3, 326, 000	1.0427	2,669,631	1.191	656, 369	. 44
Third	729, 132	.9553	600,280	1.07	128,852	.413
Fourth	3, 357, 737	.7664	2,404,385	.8513	953, 352	. 5509
Fifth	4,810,626	.69	3,480,311	.8215	1,330,315	. 3456
Sixth	4,283,358	.8057	3, 294, 077	.7169	989, 181	, 295
Seventh	3, 392, 376	.6972	2,301,555	.8224	1,000,821	.3935
The State	23, 434, 445	\$0.7852	17, 427, 598	80.9186	5,968,862	\$0,4008

The average value of lump coal per ton for the State, is found to be 91.86, and that for other grades 40.08. The former rate varies from 71.69 in the Sixth, to 1.191 in the Second district, and the latter, from 29.5 in the Sixth, to 55.09 in the Fourth district. The value of lump coal per ton is but a fraction of one per cent over that of last year. The value of other grades shows an increase of nearly 5 per cent. Only in this unimportant particular, is there a difference between this and the preceding report. Fully 75 per cent of lump coal is contracted for the general trade. Most of these contracts were

taken in the early portion of the year, at rates, it is fair to presume, much less than might now be obtained. Gains resulting from increased prices have been confined principally to that portion disposed of to the local trade. Competition for contract business tends to keep prices to a minimum. Local consumers have no protection from the fluctuation of the markets, while the great corporate bidders for coal, who could and should pay a higher rate, have fuel furnished at the lowest possible price. From an ethical standpoint, this arrangement conflicts with every known law of justice. In the table following, the average value of lump coal for a number of years is presented:

Table XXV—Average Value of Lump Coal Per Ton at the Mine for a Series of Eighteen Years, 1882–1899.

Year.	Tons of lump coal produced.	Average value per ton.	Year.	Tons of lump coal produced.	Average value per ton.
1882	9, 115, 653	\$1.51	1891	12, 900, 224	\$1.008
1883	10,030,991	1.48	1892	14,730,963	1.029
1884	10, 101, 005	1.26	1893	16, 112, 899	1.025
1885	9,791,874	1.17	1894	13,865,284	1.009
1886	9, 246, 435	1.10	1895	14, 945, 962	.932
1887	10, 278, 890	1.085	1896	13, 990, 924	.899
1888	11,855,188	1.123	1897	14,672,241	.852
1889	11,597,963	1.078	1898	14, 208, 795	.918
1890	12,638,364	1.019	1899	16,008,109	.9186

It is encourrging to note, in the return for this and last year, a reaction from the constant downward tendency in prices.

## MINE EMPLOYÉS

The following table shows the total number of all classes of mine employés for districts and the State:

Table XXVI.—Analysis of Employés, by Districts.

	ALL EMPLOYES,											
Districts.		UNDERG	Above									
	Miners.	Day men.	Boys.	Total.	ground.	Aggregate						
First	5,688	913	425	7,026	472	7, 498						
Second	4,920	867	207	5,994	637	6, 63						
Third	1,415	178	49	1,642	157	1,799						
Fourth	3,056	801	144	4,001	654	4,650						
Fifth	4,421	1,099	168	5,688	713	6, 40						
Sixth	3,583	698	165	4,446	562	5,008						
Seventh	3,366	899	137	4,402	597	4,999						
The State	26, 449	5, 455	1,295	33, 199	3,792	36, 99						

Compared with a similar enumeration last year, the total number of employés has increased by nearly two thousand. Notwith standing the reduced production of last year, the number employed in and about the mines exceeded by 1,238 those employed in 1897. This unexpected increase was explained as resulting from the unusual demand for coal and men following the termination of the suspension. The number of employés reported for each of seventeen years is given in the table below, by districts.

Table XXVII.—Employés for Seventeen Years.

Year.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Sixth District.	Seventh District,	The State.
1883	7,566	3, 211	4,070	4, 417	4,675			23,939
1884	8,013	3,616	5,018	4,781	4,147			25,575
1885	7,463	3,391	5,213	4,950	4,429			25, 446
1886	7,613	3.599	4,870	5, 197	4,567			25,846
1887	7,915	4,068	4,903	4,934	4,984	·		26,804
1883	8,623	4,914	5,250	5,086	5,537			29,410
1889	9,014	4,498	5,117	5, 679	5, 764			30,076
1890	8,258	4,099	5, 171	5,685	5,361	1		28,574
1891	9,128	5,089	6,458	5,881	6,395			32,951
1892	9,572	4,865	6,453	6,542	6,200			33,632
1893	8,831	5,974	6,964	7,021	6,780			35, 390
1894	10,280	6,714	7,112	7,750	6,621			38, 477

Table XXVII.—Concluded.

Year. First Distric		Second District.	Third District.	Fourth District.	Fifth District.	Sixth District.	Seventh District.	The State.	
1895	9,644	7, 184	6,607	8,005	7,190			38, 630	
1896	9,380	7, 103	2,134	4,467	5,758	4,374	3,816	37,032	
1897	7,632	6,872	1,635	4,021	5,672	4,100	3,856	33,788	
1898	7,377	6,799	1,800	4,030	6,093	4,662	4,265	35,026	
1899	7,498	6,631	1,799	4,655	6,401	5,008	4,999	36,991	

Prior to 1896 the average number of employés was based upon the highest number employed at any one time, and from this it would appear that the number employed had diminished since 1896. Taking the level average for the past six years, including the present, a material increase is manifest, as appears from the following statement:

Average Number of Employés for Years 1894, 1895, 1896, 1897, 1898, 1899.

189432,635	189733,788
189531,962	189835, 026
189633,054	1899

# PRICES PAID FOR MINING.

In the preparation of tables reporting prices paid for mining, prior to the adoption of the present gross weight system, more or less confusion arose on occount of the various methods applied in different parts of the State. This was the result of paying miners on the basis of the screened ton. Fortunately, the mutual adoption by the operators and miners, of the present practice of paying for all coal mined on the gross basis, removed not only the necessity for numerous tables on this question, but makes more clear and simple the presentation of this important phase of the industry.

Table XXVIII.—Average Prices Paid for Mining by Hand and with Machines, by Districts.

			MINING	MINING WITH				
		GROSS-TON	N BASIS.	SCREENED-	TON BASIS	MACHINES		
District.	Total tons.	Tons on which average is based.	Average price per ton.	Tons on which average is based.	Average price per ton.	Tons on which averrge is based.	Average price per ton.	
First	3, 535, 316	3, 493, 240	\$0,596			42,076	\$0.37	
Second	3, 326, 000	3,059,818	.577	201,464	\$0.849	64,718	.27	
Third	729, 132	556, 454	.475	147,207	.894	25,471	.275	
Fourth	*3, 357, 737	2, 135, 401	. 431	†18,610	.727	1,083,361	.291	
Fifth	4,810,626	2,918,586	.403			1,892,040	.324	
Sixth	4, 283, 258	2,113,304	.40			2, 169, 954	.329	
Seventh	3, 392, 376	2,584,684	.345			807,692	.281	
The State	23, 434, 445	*16.861,487	80, 471	367, 281	\$0.861	6,085,312	80.3134	

<sup>\* 120,365</sup> tons mined and paid for at \$1.50 per day.

Of the entire output of 23,434,445 tons, 71.9 per cent was paid for on the basis of gross weight; 1.6 per cent on the basis of screened tons, and 5 tenths per cent was mined and paid for by the day, leaving 26 per cent as the product of machines, and paid for on the basis of gross weight. The per cent of screened coal and that paid for by the day is so small that it could safely be omitted in computing the average price paid for mining, and confirms the conclusion that the provisions of the agreement made between the miners and operators two years ago are being generally complied with. It will be observed that the rate for machine mining remains the same as last year, while the rate for hand mining has advanced from 44 to 47 cents per ton. As a matter of fact there has been no change in the price paid for hand mining during the present year. At the joint convention held in February last, the mining scale of 1898 was continued. This seeming discrepancy is accounted for in the difficulty experienced last year in arriving at a correct average rate for hand mining, consequent on changing from the screened to the gross weight basis.

<sup>†</sup> Forked coal.

## AGGREGATE WAGES OF MINE EMPLOYÉS.

For the first time in these reports the operators of mines were asked to furnish the total amount of wages paid all classes of employés except office help. With the exception of some local mines whose imperfect records would not permit of it, the request was promptly complied with. The following table shows the total number of employés, average number of days worked, aggregate amount paid, and average wages per day and per year for all employés, excepting office help.

Table XXIX.—Showing the total number of employés, the average number of days worked, the aggregate amount paid for wages, and the average wages per day and per year for all employés, excepting office help.

#### FIRST DISTRICT.

		Емрі	OYES.		number	paid ex- office	wages all em-	wages all em-
COUNTY.	Miners	Day men.	Boys	Total.	Average nu of days.	Total wages all classe employés, cepting help.	Average w per day al ployés.	Average w peryearal ployés.
Grundy	2,601	448	249	3, 298	215	\$1, 119, 500	\$1 58	\$339 45
Kankakee	89	115	6	210	198	100, 787	2 42	479 94
LaSalle	2,715	706	155	3,576	181	1,470,138	2 27	411 11
Livingston	208	93	13	314	167	111,458	2 23	<b>354</b> 96
Will	75	23	2	100	187	33, 294	1 78	332 94
Totals and averages	5,688	1,385	425	7,498	188	\$2,835,177	\$2 01	\$378 00

## Table XXIX.—Continued.

#### SECOND DISTRICT.

		Емрі	OYES.		number i.	paid s of ex-	wages all em-	wages all em-
County.	Miners	Day men.	Boys	Total.	Average nul of days.	Total wages all classe employes, cepting help.	Average w per day all ployés.	Average w per year al ployés.
Bureau <i>a</i>	2,271	670	96	3, 037	192	\$1,224.778	\$2 10	\$403 21
Henry b	181	40	6	227	196	79, 111	1.78	404 00
Marshall c	524	134	13	671	289	250,668	1 29	373 57
Mercer d	440	262	56	758	192	364,045	2 51	450 27
Peoria e	633	170	24	827	214	404,010	2 28	488 59
Rock Island f	56	13		69	184	20,824	1 64	301 80
Stark g	10	3		13	191	1,696	68	130 46
Woodford	330	108	4	442	237	163, 327	1 60	369 52
Totals and averages	4,445	1,400	199	6,044	212	\$2,508,459	\$1.96	8415 31

- a Eight mines employing 34 men, with an average of 145 days; amount of wages paid not reported.
- b Thirteen mines employing 56 men, with an average of 149 days; amount of wages paid not reported.
- $\sigma$  Eight mines employing 10 men, with an average of 113 days; amount of wages paid not reported.
- d Seven mines employing 32 men, with an average of 185 days; amount of wages paid not reported.
  e Thirty-six mines employing 306 men, with an average of 173 days; amount of wages
- paid not reported.

  7 Sixteen mines employing 80 men, with an average of 135 days; amount of wages paid not reported.
- g Seventeen mines employing 69 men, with an average of 184 days; amount of wages paid not reported.

#### THIRD DISTRICT.

	Емрі	OYES.		nber	paid ex- office	ages em-	wages all em-	
Miners	Day men.	Boys	Total.	Average nu of days.	Total wages all classe employes, cepting belp.	Average w per day al ployés.	Average w peryearal ployés.	
30			30	91	\$2,665	\$0.98	\$88-83	
881	281	38	1,200	145	398,032	2 23	331 69	
22	4		26	161	5,740	1 37	221 00	
141	24	2	167	167	33,980	1 22	203 47	
257	15	9	281	127	55, 471	1 60	197 40	
37	6		43	199	10,015	1 17	233 00	
47	5		52	174	13, 980	1 54	269 00	
1,415	335	49	1,799	152	519, 883	1 90	\$258 96	
	30 881 22 141 257 37	Miners Day men.  30 881 281 22 4 141 24 257 15 37 6 47 5	men.	Miners         Day men.         Boys         Total.           30          30           881         281         38         1,200           22         4          26           141         24         2         167           257         15         9         251           37         6          43           47         5          52	Miners   Day   Boys   Total.	Miners   Day   Boys   Total.	Miners   Day   Boys   Total.	

## Table XXIX—Continued.

#### FOURTH DISTRICT.

County.	EMPLOYES.				umber	paid ex- office	wages all em-	wages all em-	
	Miners	Day men.	Boys	Total.	Average nu of days.	Total wages all classe employés, cepting help.	Average v per day al ployés.	Average v per year a ployés.	
Cass	15	4	1	20	190	\$3,945	\$1 04	\$197 25	
Logan a	85	37	1	123	176	67, 121	3 10	545 70	
Macon	268	84	26	378	224	247,901	2 93	655 82	
Menard	397	167	6	570	208	264,732	2 23	464 44	
McLean	279	91	17	387	233	163, 273	1 81	421 89	
Tazewell	150	50	14	214	187	72,774	1 82	340 06	
Vermilion b	1,766	982	69	2,817	193	1,264,361	2 35	439 09	
Totals and avarages	2,960	1,415	134	4, 509	201	\$2,084,107	\$2 31	\$465 06	

 $<sup>\</sup>alpha$  The Lincoln Coal Company's mine, employing 138 men, working 265 days, makes no report of wages paid.

### FIFTH DISTRICT.

County.		Емрі	OYES.		Average number of days.	paid ex- ex- office	Average wages per day all em- ployés.	Average wages per year all em- ployés.
	Miners	Day men.	Boys	Total.		Total wages all classe employés, cepting o		
Calhoun	8	12		20	201	\$6,177	\$1 54	\$308 85
Christian	570	277	32	879	183	306,820	1 91	349 06
Greene	43	7		50	183	14,370	1 57	287 40
Jersey	18	2		20	150	4,850	1 62	242 50
Macoupin	1,401	707	67	2,175	157	849,621	2 48	390 63
Montgomery	345	155	11	511	213	207,871	1 91	404 84
Morgan	11	2		13	218	5,700	2 01	438 46
Sangamon	1,874	582	51	2,507	210	1, 174, 119	2 23	468 34
Scott	44	9		53	222	22,429	1 91	423 19
Shelby	107	59	7	173	205	74,008	2 08	427 79
Totals and averages	4,421	1,812	168	6, 401	194	\$2,665,965	\$2 15	\$416 49

b One mine employing eight men, working 150 days; amount of wages paid not reported.

# Table XXIX.—Continued.

#### SIXTH DISTRICT.

County.		Емрі	OYES.		Average number of days.	Total wages paid all classes of employes, ex- cepting office help.	Average, wages per day all em- ployés,	Average wages per year all em- ployes.
	Miners	Day men.	Boys	Total.				
Bond	128	48	5	181	178	860, 503	\$1.88	8334 25
Clinton $a$	349	101	26	476	187	251,051	2 82	527 42
Madison	897	345	50	1, 295	151	€75, 933	2 90	524 27
Marion	600	291	36	927	198	271,620	1 42	293 01
St. Clair	1,605	470	450	2,123	207	920,640	2 09	433 65
Totals and averages	3,579	1,258	165	5,002	190	\$2, 152, 747	\$2 30	\$436-37

a One new mine employing 6 men working 20 days not included.

#### SEVENTH DISTRICT.

County.		Емрі	OYES.		mber	paid s of ex-	wages Ill em-	Average wages per year all em- ployes,
	Miners	Day men.	Boys	Total.	Average nu of days.	Total wages all classe employes, eepting help.	Average wa per day all ployés,	
Gallatin	52	19	2	73	142	\$15,760	81 52	8215 93
Hamilton	. 11			11	65	900	1 20	52 00
Jackson a	824	419	50	1,293	190	508, 493	2 07	393 31
Jefferson	53	29	3	85	220	30, 707	1 60	361 26
Johnson	19	6	1	26	121	1,970	62.	72 69
Perry b	910	399	15	1,327	196	491, 481	1 50	370 38
Randolph $e$	355	113	13	481	202	200, 151	1 90	418 19
Saline $d$	107	44	2	153	147	18, 173	44	118 77
Washington	61	26		87	181	19, 435	1 23	223 39
Williamson $e$	938	436	48	1,422	151	533, 149	2 91	449 51
Totals and averages	3,330	1,491	137	4,955	162	81, 820, 219	\$2 40	8355 64

a Two mines employing 2 men, with an average of 170 days; amount of wages paid not reported.

 $b\,$  Four mines employing 9 men, with an average of 126 days; amount of wages paid not reported.

c Two mines employing 5 men, with an average of 110 days; amount of wages paid not reported.

d Ten mines employing 20 men, with an average of 64 days; amount of wages paid not reported.

e Three mines employing 5 men, with an average of  $\,28\,\mathrm{days}\,;\,$  amount of wages paid not reported.

## Table XXIX.—Concluded.

#### THE STATE.

Districts.		Емрі	OYES.		Average number of days.	paid ss of ex- office	Average wages per day all em- ployes.	Average wages per year all em- ployés,
	Miners	Day men.	Boys	Total.		Total wages all classe employés, cepting belp.		
First	5,688	1,385	425	7,498	188	\$2,835,177	82 01	8378 00
Second a	4,445	1,400	199	6,044	212	2,508,459	1 96	415 31
Third	1,415	335	49	1,799	152	519,883	1 90	288 96
Fourth b	2,960	1,415	134	4,509	201	2,096,671	2 31	465 06
Fifth	4, 421	1,812	168	6,401	194	2,665,968	2 15	416 49
Sixth c	3,579	1,258	165	5,002	190	2, 182, 747	2 30	436 37
Seventh d	3,330	1,491	137	4,958	162	1,927,274	2 40	388 98
Totals	25,838	9,096	1,277	36, 211	186	\$14,616,555	82 20	\$406 98

a One hundred and five mines out of 185 in the district, employing 587 men, with an average of 165 days, did not report the amount of wages paid.

In the foregoing table the employés have been divided into three classes, as returned by the operators, viz: miners, day men, and boys. The average number of days is obtained by adding all of the days returned for each county, and dividing the result by the number of mines in each. In arriving at the average wages per day, the total number of employés was considered per day and per year. From the returns made, only the aggregate wages paid all classes was given, and the total sums paid the respective classes could not be separated. Therefore the ascertained averages per day and per year, as reported, does not represent the actual wages received by either class. Taking the figures returned for the First district, and estimating the 1.385 day men as receiving \$1.90 per day, and the 425 boys as receiving 75 cents per day on the average of 188 days for the year gives \$554,647 as their aggregate earnings. Deducting this sum from the total wages paid leaves \$2,280,530 as representing the total wages paid to the 5,688 miners, or an average of \$2.13 per day, or \$400.44 for the estimated number of days. Similar estimates may be made for each of the other districts and the State. The difficulty of attempting to separate the earnings of the respective classes is still

b Two mines out of 87 in the district, employing 142 men, with an average of 206 days, did not report the amount of wages paid.

 $c\ {\rm One}\ {\rm mine}\ {\rm out}\ {\rm of}\ 104$  in the district, employine 6 men, with an average of 20 days, not included.

d Twenty-one mines out of 131 in the district, employing 41 men, with an average of 88 days, did not report the amount of wages paid.

further increased by the various and uncertain amounts paid to boys, the assumed average is probably to small to cover all grades of juvenile labor. Besides, a certain per cent of those returned as day men are employed constantly through the year, while others engaged as day men are employed in making repairs during the interval when the plant is not operated. It will be observed that the average number of days in the foregoing table varies from the average number of days in the foregoing table varies from the average number in the district and other tables, and is accounted for from the fact that several mines in the different parts of the State, neglected to make any return of the total wages paid, so that the fligures here given can be considered only as an approximation to to the actual earnings of the miners and other employés. Following the rate paid for mining, and the total yearly earnings, it is important to know at what intervals wages are paid. The table following supplies this data:

Table XXX.—Frequency of Wage Payments, by Districts.

District.	WAGES PAID WEEKLY.			WAGES PAID SEMI-MONTHLY.			WAGES PAID MONTHLY.		
MSTRICT.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	49	347	157, 285	35	7,151	3, 378, 031			
Second	59	241	64, 533	110	5,728	2, 824, 323	16	662	437 14
Third	8	24	5,190	201	1,762	720, 335	2	13	3,60
Fourth	37	882	433,060	48	3, 761	2,916,718	2	12	7,929
Fifth	1	20	4,118	86	6,381	4,806,508			
Sixth	19	76	21,340	79	4,900	4,245,001	6	32	16,91
Seventh	47	138	27,637	77	4,727	3, 312, 853	7	134	51,886
The State	220	1,728	713, 163	636	34, 410	22, 203, 769	33	S53	517, 48

From the inception of united action among coal miners, next in importance to the demand for the abolition of the "Truck Store," was the necessity for shorter intervals between pay days. Like the other conditions surrounding the mining industry years ago, there was a general lack of uniformity in this particular, the time varying from two weeks to, in some rare cases, over two months. The agitation for this reform was pressed, and partly through the influence of the union, succeeded in securing the enactment of a law stipulating the periods within which wages should be paid. The corporations that resisted this action on the part of the General Assembly, procured a

hearing before the supreme court, which declared the law void, on the alleged grounds that it violated the sacred right of private contract. The sentiment in support of such a measure had, however, gone beyond the reach of the courts. Those who formerly opposed, it, became convinced that its concession would not, as some represented, destroy the industry or demoralize their employés. This preliminary work in a measure prepared the mine owners for the demand that wages should be paid at least twice a month, and it became a part of the contract made at the interstate convention of miners and operators. It appears from this table that, with the exception of 855 men, all the employés in and about the coal mines of Illinois received their wages twice a month or oftener, and of the entire number, 1,728 were paid weekly. The extent of this practice is more clearly outlined in the following table of percentages for a series of years:

Table XXXI.—Percentages of Mines, Men and Tons Affected by Specified Intervals of Wage Payments for a Series of Years.

Year.	WAGES PAID WEEKLY.			PAID SE	Wages mi-Mon	THLY.	WAGES PAID MONTHLY.			
I DAN.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
1893	67	27.6	26.2	25	56	50.4	8	16.4	23.4	
1894	43	11.7	9.7	46	66.6	67.2	11	21.7	23.1	
1895	31	6,5	4.2	57	78.3	74.4	12	15.2	21.4	
1896	49	7.8	5.3	37.5	74.6	73.5	12	17,6	21.2	
1897	46.78	6.91	4.34	39.04	74.69	73.71	14.18	18.4	21.9	
1898	32.23	5.36	4.99	62.32	90.25	89.78	5.45	4.39	5.23	
1899	24.75	4.67	3.04	71.54	93.02	94.75	3.71	2.31	2.21	

From the above it will appear that 93 per cent of the men who produce 95 per cent of the annual output, receive their wages semimonthly. Those paid monthly represent but two per cent of the total employés, while five per cent are paid weekly.

#### MACHINE MINING.

The following table shows the number of mines in which machines were employed during the year, exclusively or in part, and the tons, mined in the several districts and the State:

Table XXXII.—Number and Tonnage of Mining Machines, by Districts.

	Mines in Which Machines Are Used.									
District.	EXCLUSIVELY.			IN PART.			TOTAL.			
	Mines.	Ma- chines.	Tons.	Mines.	Ma- chines.	Tons.	Mines.	Ma. chines,	Tons.	
First				1	9	42,076	1	9	42,076	
Second				2	9	64,718	2	9	64, 718	
Third				. 2	4	25,471	2	4	25, 471	
Fourth	1	7	251, 624	s	59	831, 737	9	66	1,0833,61	
Fifth	14	188	1,842,959	1	6	49,081	15	144	1,892,040	
Sixth	21	136	2,050,906	2	8	119,948	23	144	2, 169, 954	
Seventh	3	19	323, 115	9	45	484,577	12	64	807, 692	
The State	39	300	4, 467, 704	25	140	1,617,608	64	440	6,085,312	

Mines in which machines are used exclusively are confined to the central and southern districts. Compared with last year, there has been an increase of five in the number of mines using machines exclusively, and an increase of fifty-four in the number of machines. The number of mines in which machines are used in part has increased by four, while the number of machines used is less by six. The tons delivered from the former class of mines has more than doubled, having increased during the year from 2.140,337 tons to 4,467,604 tons. Mines using machines exclusively and in part have increased by 9, and machines by 48 over those reported for the preceding year, and the product of such mines has increased from 3.415.635 tons, to 6.085.312 tons. This remarkable increase in the mechanical product for the year is somewhat explained by the fact that a large number of machines reported last year had at that time been but recently introduced, and their influence on the tonnage is more apparent in this report.

Table XXXIII.—Name and Number of Mining Machines in Use, by Districts.

DISTRICT.	Harrison.	Ingersoll- Sergeant	Jeffrey	Sullivan	Link-Belt	Morgan- Gardner.	Yock	Chouteau	Total
First		9							9
Second			1		8				9
Third				2	2				4
Fourth	12	8	18	18		8	2		66
Fifth	97	27		3	8	5	4		144
Sixth	48	64	12	1	5	2	6	6	144
Seventh	23	22	8	11					64
The State	180	130	39	35	23	15	12	6	440

The above indicates the kind and number of machines in use, by There are eight less Harrison machines in use this year The Ingersoll-Sergeant machines have increased from 107 to 130; Jeffrey, from 27 to 39; Sullivan, from 16 to 35; Morgan-Gardner, from 6 to 15. In the preparation of a similar table last year, the number of Link-belt machines was given as 20; those of the General-Electric, as 7. It was subsequently discovered that this was an erroneous classification, as there is no such machine as the "General-Electric." The number reported last year under this head should have been credited to the Link-belt, making the correct number 27. Eight machines of this make reported at Streator last year, and two at Reed City, are not included in the returns for this year. Of this class of machines, one has been added at Odin, three at Wolcott, and two at Farmington, making 23 in all, or a reduction of four from the number returned last year. The number of Yock machines has decreased from 16 to 12. The following is a list of the mines in which machines are used exclusively, the kind of machine operated, and the number of tons mined, followed by a list of the mines in which a part only of the output is mined by machines:

# Mines in Which Machines Are Used Exclusively.

0	Location.		Machines.	m
Company.	Location.	No.	Names.	Tons.
Madison Coal Co., No. 2	Glen Carbon	14	Ingersoll-Serg'nt.	293, 559
Consolidated Coal Co., No. 6	Staunton	{ 13 4	Harrison Yock	271,664
Madison Coal Co., No. 5	Mt. Olive	16	Ingersoll-Serg'nt.	268,077
Taylorville Coal Co	Taylorville	14	Harrison	255,000
Westville Coal Co	Westville	7	Jeffrey	251,624
Consolidated Coal Co., No. 8	Mt. Olive	16	Harrison	225,419
Mt. Olive & Staunton Coal Co	Staunton	5	Jeffrey	219,229
Madison Coal Co., No. 4	Glen Carbon	12	Ingersoll-Serg'nt.	218,697
Consolidated Coal Co., Abbey, No. 3	Collins	11	Harrison	188,415
No. 7	Staunton	15		160, 104
·· Heinz Bluff	Collinsville	10	**	154, 294
No. 10	Mt. Olive	12		150,934
Big Muddy Coal & Iron Co., No. 6	Murphysboro	8		146,346
Odin Coal Co	Odin	5	Link-Belt	142,574
Hillsboro Coal Co	Hillsboro	5	Morgan-Gardner.	127,035
Consolidated Coal Co., Gillespie	Gillespie	12	Harrison	113, 907
Centralia Mining & Mfg Co	Centralia	6	Jeffrey	111,271
O. & M. Valley Coal & M. Co., No. 2	Marion	5		110,843
Chicago-Virden Coal Co., No. 1	Virden	8	Link-Belt	101,422
Girard Coal Co	Girard	s	Ingersoll-Serg'nt.	83,425
Consolidated Coal Co., Trenton	Trenton	12		50,048
·· White Oak	Marrissa	4	Harrison	76,040
Trenton Coal & Light Power Co	Trenton	8	Ingersoll Serg'nt.	75,658
Glendale Coal Co., No. 1	Belleville	$\begin{cases} 6 \\ 1 \end{cases}$	Chouteau	74, 400
Consolidated Coal Co., Hornsby	Hornsby	10	Harrison	70,344
Ohio Valley Coal & Coke Co	Spillertown	6	Sullivan	65,926
Madison Coal Co., No. 3	Edwardsville	7	Ingersoll-Serg'nt.	56,778
Oakland Coal Co	Belleville,	4	**	51,406
Lebanon Coal & Mining Assn	Lebanon	6	Yock	49, 177
Consolidated Coal Co., No. 4	Belleville	5	Harrison	43,741
Schurman	**	4	**	41,780
" Troy	Troy	6		32,708
" Green Mt	Belleville	4	**	37, 445
·· Richland		2		31,756
Henrietta Coal Co	Edwardsville	2	Morgan.Gardner.	34,015
Consolidated Coal Co., Rose Hill	Belleville	2	Harrison	24,015
William McNeil & Co	Bunker Hill	1		7,220

## Mines in Which Machines Are Used Exclusively.—Concluded.

0			m		
COMPANY.	Location.	No.	Name.	Tons.	
William Jamieson & Co	Golden Eagle		Ingersoll-Serg'nt. Sullivan Ingersoll-Serg'nt.	4,118	

## Mines in Which Only Part of the Output is Cut by Machines.

			Machines.	Tons
Company.	Location.	No.	Name.	Tons.
Himrod Coal Co., No. 2	Westville	12	Sullivan	215,876
Kelleyville Coal Co., No. 3	**	7		178,956
Himrod Coal Co., No. 1	**	$\left\{\begin{array}{c} 6\\2\\2\end{array}\right.$	Yock	175, 132
Big Muddy C. & Iron Co., No. 1	Murphysboro	( 6		107,921
"Harrison		8		97,557
Sorento Prospecting & Mining Co	Sorento	7	Ingersoll-Serg'nt.	94, 455
Kellyville Coal Co., No. 2	Westville	4	Jeffrey	72, 102
Athens Mining Co	Athens	8	Ingersoll-Serg'nt.	71,471
Gartside Coal Co., No. 4	Murphysboro	5	**	60,000
Willis Coal & Mining Co	Willisville	. 4		56,666
Newsam Brothers	Peoria	{ 5	Link.Belt Jeffrey	} 54,718
Gartside Coal Co	Murphysboro	6		53,335
Brookside Coal Co., No. 1	Grape Creek	4	Morgan-Gardner	50,000
Moweaqua Coal Mining Co	Moweaqua	{ 4		} 49,081
Gardner-Wilmington Coal Co	Clark City	9		42,076
Brookside Coal Co., No. 2	Grape Creek	4	Morgan-Gardner.	40,000
Gartside Coal Co., No. 1	Murphysborol	2	Ingersoll-Serg'nt.	33,053
Big Muddy Coal & Iron Co., No. 7	Herrins		Jeffrey	28, 305
Glenburn Coal Co	Glenburn	6	Harrison	28,200
Consolidated Coal Co., Reineke	Belleville	1	Jeffrey	25,543
Mt. Vernon Coal Co	Mt. Vernon	5	Sullivan	24,307
Muddy Valley Mining & Mfg Co	Hallidayboro	5	Ingersoll-Serg'nt.	23,433
Whitebreast Fuel Co	Dunfermline	2	Sullivan	18,321
Reed City Coal Co	Wolcott	5	Link-Belt	10,000
Farmington Coal Co	Farmington	2		7, 150
Total—25 mines		140		1,617,658

The former list contains five and the latter four more mines than reported last year, and evidences the gradual encroachment of this agency as a factor in production.

#### Consumption of Powder.

Table XXXIV.—Distribution of Podwer to Long-wall and Pillarand-room mines, by Districts.

DISTRICT.	Tons pro- duced	LONG-WALL MINES.		PILLAR-A Mix	ND-ROOM	ALL MINES.		
2204111011	without powder.	Kegs.	Tons.	Keg	Tons.	Kegs.	Tons.	
First	1,076,333	2,305	2, 238, 640	22, 397	1, 296, 676	24,702	3, 535, 316	
Second	1,786,211	615	1,980,029	51,822	1,345,971	52,437	3,326,000	
Third	103,846		4,338	22,945	724, 794	22,945	729, 133	
Fourth*	178,810	1,007	160, 873	69,308	2,896,864	70,315	3, 357, 737	
Fifth	40, 458	100	61,020	100,637	4, 749, 606	100,737	4,810,626	
Sixth	25,983			68,860	4, 283, 258	68,860	4, 253, 258	
Seventh		7	Strip 640	79,260	3,391,736	79, 267	3, 392, 376	
The State	3,211,641	4,034	4, 745, 540	415, 229	18, 688, 905	419, 263	23, 434, 445	

 $<sup>^{*}</sup>$  1,007 kegs of powder were used at 4 strip mines in Vermilion county. The product of these mines are classed long-wall.

It will be observed that but a very small percentage of the total tonnage is reduced without explosives. In the three tables following will be found the average amount of powder used by the miners where the coal is mined before blasting, and where it is blasted from the solid, and the average number of tons produced by each method, for each keg of powder consumed:

Table XXXV.—Powder Used in Mines Where the Coal is Undercut Before Blasting.

District.	Kegs consumed.	Miners employed.	Tons produced.	Kegs per man.	Tons per keg.
First	7, 392	3,668	1, 683, 086	2.01	227.70
Second	813	659	306,714	1.23	377.26
<b>Th</b> ird					
Fourth	17,591	1,403	1, 259, 433	12.54	71.59
Fifth	14, 212	2,902	2, 233, 065	4.90	157.13
Sixth	17,950	2,351	2, 191, 949	7,60	121.91
Seventh	25,059	2,101	1,415,201	11.93	56.47
The State	53, 047	13,084	9,089,451	6.34	109.48

Table XXXVI.—Powder Used in Mines Where the Coal is Blasted Without Undercutting.

District.	Kegs consumed.	Miners employed.	Tons produced.	Kegs per man.	Tons per keg
First	15, 389	936	648, 575	16.44	42.1
Second	46,482	1,722	1,069,558	27.00	23.0
Third	22,945	1,248	625, 286	18.38	27.2
Fourth	45,920	2,427	1,509,866	18.92	32.8
Fifth	83,725	3, 195	2, 438, 463	26.21	29.1
Sixth	50,880	2,581	2,065,326	19.71	40.5
Seventh	54, 208	2,398	1,977,175	22,60	36.4
The State	319, 549	14,507	10, 334, 249	22.03	32.3

Table XXXVII.—Powder Used in Mines Where the Coal is Both Brasted from the Solid and Undercut Before Brasting.

District.	Kegs consumed.	Miners employed.	Tons produced.	Kegs per man.	Tons per keg.
First	1,921	202	127, 322	9.51	66.28
Second	5, 142	261	163,517	19.70	31.80
Fourth	6,804	413	409,628	16.47	60.20
Fifth	2,800	141	98,637	19.86	35.23
Total	16,667	1,017	799, 104	16.39	47.95

Aside from the increase resulting from greater production, the only important difference from a similar table published last year, is in the number of kegs consumed and tons produced in mines where the coal is undercut before blasting. Last year the report for this class of mines showed that 41,495 kegs of powder produced 3,729,183 tons of coal, an average of 89.87 tons per keg. This year 83,047 kegs were consumed, and 9,089,451 tons were produced, or an average of 109.45 tons per keg.

#### FATAL ACCIDENTS IN MINES.

No question connected with the mining industry excites so much interest and sympathy as that relating to the number of men whose lives are sacrificed in the prosecution of the business. The loss is continuous, and, as the record shows, varies substantially with the extent of operations. Only at rare intervals, like the awful catastrophe at Braidwood in 1883, where 69 miners were drowned, is the ratio materially disturbed. In point of production the present year eclipses that of any other in the history of the State. It also returns the largest death list, excepting the year of the Diamond disaster here noted. The number of fatal casualties that have occurred during the year, and their relation to the number of men employed and the number of tons produced, by districts, and for the State, is here presented:

Table XXXVIII.—Fatal Casualties, by Districts, 1899.

District.	Number killed.	Number of employés.	Number of tons of coal mined	employés	Number of tons of coal mined to each death
First	7	7,498	3,535,316	1, 071	505, 045
Second	12	6,631	3, 326, 000	553	277, 167
Third	4	1,799	729, 132	450	182, 285
Fourth	11	4,655	3, 357, 737	423	305,249
Fifth	14	6,401	4, 810, 626	457	343, 616
Sixth	22	5,008	4, 283, 258	228	194, 694
Seventh	14	4,99	3, 392, 376	357	242,313
The State	84	36,991	23, 434, 445	440	275, 952

While the number of fatal accidents would seem to sustain a certain relation to the output for the State, the rule, however, does not hold good for the districts, as the number killed in the several districts has no apparent connection with the number of employés, or between the number employed and the tons produced. The total number of fatal accidents for the year is 84, an increase of nine over those reported for 1898. An examination of the following table will show that, as compared with last year, the number of employés to each death is less, while the number of tons of coal mined to each life

lost is somewhat more. Considered from the standpoint of total tonnage for the State, the proportion of fatal accidents is less than last year, while the number of days of active operation, which to some extent measured the dangers, exceeds those of any year subsequent to 1893.

Table XXXIX—Fatal Accidents for 17 years.

Year.	Number killed.	Total number of employés.	Total number of tons of coal mined.	Number of em- ployés to each life lost.	Number of tons of coal produced to each life lost.
1883	*134	23, 939	12, 123, 456	179.6	90, 474
1884	46	25, 575	12, 208, 075	566	265, 393
1885	39	25,436	11,834,459	652.4	303,448
1886	52	25,846	11, 175, 241	497	214,909
1887	41	26,804	12, 423, 066	654	303,002
1888	55	29,410	14, 328, 181	534.7	260, 513
1889	42	30,076	14,017,298	716.1	333,745
1890	53	28,574	15, 274, 727	539.1	286,316
1891	60	32,951	15,660,698	549	261,015
1892	57	33,632	17,062,276	580	313, 37
1893	69	35, 390	19, 949, 564	513	289, 129
1894	72	32, 635	17, 113, 576	453.3	237, 688
1895	75	31,962	17,735,864	426.2	236, 478
1896	77	33,054	19, 786, 626	429.2	256,969
1897	69	33,788	20,072,758	489.7	290, 910
1898	75	35,026	18,599,299	467	247,99
1899	84	36, 991	23, 434, 445	440	278, 983
Average 17 years	64.7	30,653	16, 047, 036	473.7	248,00

 $<sup>^{8}69~\</sup>mathrm{men}$  drowned by the flooding of the Diamond mine. Braidwood, and 10 men killed by an explosion at Coulterville.

The two tables following represent the number of fatal accidents for the year and for a series of years, and the causes producing them:

				D	ISTRIC	т.			20 20 20 20 20 20 20 20 20 20 20 20 20 2
Cause.	Totals.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh	Percentages
Black damp	2					2			2.35
Cages	5	1	2				1	1	5.95
Explosion of powder	1		1						1.19
Falling coal and rock	51	6	4	2	9	7	14	9	60.72
Falling down shaft	3				1		2		3.57
Falling from cage	1							1	1.19
Flying coal	3		2	1					3.57
Gas	1				1				1.19
Machines	3						3		3.57
Pit cars	6		2			2	1	1	7.15
Premature blast	3					2		1	3.57
Railroad cars	1						1		1.19
Scalded in sump	1							1	1.19
Trap door	1		1						1.19
White damp	1			1					1.19
Unknown	1					1			1.19
Totals, 1899	84	7	12	4	11	14	22	14	100.00
** 1898	75	12	10	4	19	5	8	17	
** 1897	69	11	9	4	10	19	11	5	
** 1896	77	18	11	4	14	16	4	10	
** 1895	75	16	12	16	15	16			
** 1894	72	19	9	10	19	15			
** 1893	69	17	5	12	10	25			
** 1892	57	10	1	11	24	11			
1891	60	15	4	9	12	20			
·· 1890	53	16	5	10	11	11			
Aggregates	691	141	78	84	145	152	45	46	
Averages	69.1	14.1	7.8	8.4	14.5	15.2	4.5	4.6	

Table XLI-Fatal Accidents for Twelve Years, by Leading Causes.

Cause.	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	Totals.	Percent- ages for 12 years.
Blask damp												2	2	0.25
Blasts, explosions, etc	9	3	4	11	4	6	8	12	9	11	11	4	92	11.67
Cages	2	4	4	4	4	4	s	4	5		2	5	46	5.84
Coal and other things falling down shaft		1		2	1			1					5	0.64
Falling coal, rock, etc	33	26	36	33	28	48	43	38	41	46	43	51	466	59.14
Falling down shaft	4	2		1	8	3	5	4	6	5	4	4	46	5.84
Falling props, etc		1		1	3	2		1	1		1		10	1.27
Fire-damp and gas			5	4	2	3		5	2	2	7	1	31	3.92
Pit-cars	6	5	3	2	6	2	6	5	7	1	2	6	51	6.48
Railroad cars	1		1	2	1	1	2	1	1	1	1	1	13	1.65
White damp												1	1	0.13
Other causes								4	5	3.	4	9	25	3.17
Totals	55	42	53	60	57	69	72	75	77	69	74	84	788	100.00

As noted in former reports, the majority of fatal accidents are caused by falling coal and rock at the face of the workings, a source of danger to which the average workman is constantly exposed. While association with the ordinary risks which all miners assume, may, in time, develop a degree of indifference, the sources of danger are so numerous and uncertain, that most of the fatal accidents may safely be ascribed to causes unseen and therefore unpreventable.

Table XLII.—Percentages of Fatal Accidents Caused by Falling Roof or Sides, for Seventeen Years, by Districts.

				District				THE S	TATE.
YEAR.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total deaths.	Per cent.
1883	8.9	100	82.4	62.5	40	İ		134	30
1881	27.3	\$3.3	66.7	44.4	75			46	56.8
1885	60		33.3	69.2	43			39	51.
1886	64.3	50	45.5	89	58.3	·		52	61.8
1887	71.4	60	60	66	71.4			41	65 :
1888	84.2	20	50	62.5	46.2			55	60
1889	57.1	33.3	50	75	72.7			42	62
1890	93.8	20	50	45.5	63.6			53	67.
1891	66.7	50	44.4	50	55			60	55
1892	50	100	45.5	33.3	51.5			57	49.
1893	88.2	60	66.6	60	64	,		69	69.
1894	68.4	44.4	50	52.6	66.6	,		72	58.
1895	50	58.3	43.75	46.67	56.3			75	50.
1896	77.8	36.4	75	57.1	18.8	100	50	77	53.
1897	72.7	44.4	75	100	57.9	72 7	40	69	66.
1898	66.7	50	25	79	60	50	41.2	75	55.
1899	85.7	33.3	50	81.8	50	63 6	64.3	54	60.
17 years.	55.3	46.7	56	61.1	55.3	65.5	50	1,100	55.5

The above presents a record for a period of seventeen years, of the percentages of all deaths which have befallen miners in this State, from falling coal in each of the several districts, and the table following shows the occupation and conjugal relation of the killed:

Table XLIII.—Occupation and Conjugal Relation of Killed.

	DI: FAT	STRI	CTS.	ABD	Nus	OF ACH		Co		AL ION.	RE-	of de-	
Occupation.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total numl killed.	Married.	Single.	Widows.	Children.	Number of pendents.
Cagers		7				1		2		2			
Check weighman						1		1	1		1	1	2
Drivers					1		1	2	1	1	1	1	2
Engineers					1			1		1			
Laborers					2	1	2	5	5		5	8	13
Loaders						2		2	2		2	5	7
Machine helpers					1	2	1	4	2	2	2	4	6
Miners	7	10	4	10	9	13	9	62	36	26	32	128	148
Mine managers						1		1	1		1	3	4
Stable boss				1				1	1		1	5	6
Top boss						1		1		1			
Trapper		1						1		1			
Trip rider							1	1	1		1		1
Totals	7	12	4	11	14	22	14	84	50	34	46	150	189

Of the 84 killed, 50 were married and 34 single. The former left 46 widows and 150 children. We have here a total of 84 lives lost, and 189 persons left dependent, as a partial result of the years operations—a loss not much less than that sustained by the government in its war to destroy Spanish domination in the western hemisphere. The following table, which concludes this branch of the subject, sets forth the essential details for each district, for the past seventeen years:

Table XLIV.—Fatal Accidents from Falls in Mines and from Other Causes, with Averages and Percentages for Seventeen Years.

							Disti	ист.							E.	other	
Year.	Fi	rst	Sec	ond	Th	ird.	Four	th.	Fift	h.	Si	xth.	Se	ev- th.	m falls	from	sr
I LAR.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other eauses.	Falls.	Other causes.	Total from		Total deaths
1883	7	72	1		13	5	11	5	8	12					40	94	134
1884	6	5	5	1	5	4	4	5	6	2					29	17	46
1885	6	4		3	2	4	9	4	3	4					20	19	39
1886	9	5	3	3	5	$\epsilon$	8	1	7	5					32	20	52
1887	10	4	3	2	3	2	2	1	10	4					28	13	41
1888	16	3	1	4	5	5	5	3	6	7					33	22	55
1889	8	6	1	2	3	3	6	2	8	3					26	16	42
1890	15	1	1	4	8	2	5	6	7	4					36	17	53
1891	10	5	2	2	4	5	6	6	11	9					33	27	60
1892	8	2	1		5	6	8	16	6	5					28	29	57
1893	15	2	3	2	8	4	6	4	16	9					48	21	69
1894	13	6	5	4	5	5	10	9	10	5					43	29.	72
1895	8	8	7	5	7	9	7	8	9	7					38	37	75
1896	14	4	4	7	3	1	8	6	3	13	1		5	5	41	36	77
1897	8	3	4	5	3	1	10		11	8	8	3	2	3	46	23	69
1898	8	4	5	5	1	3	15	4	3	2	4	4	7	10	43	32	75
1899	6	1	4	8	2	2	9	2	7	7	14	8	9	5	51	33	84
17 years	167	135	50	57	85	67	129	82	131	106	30	15	23	23	615	485	1,100
Averages	9.8	8	3	3.4	5	4	7.6	4.8	7.7	6.2	1.8	0.9	1.4	1.4	36.2	28.5	64.7
Percentages	55.3	44.7	46, 7	53.3	56	44	61.1	38.9	55.3	44.7	65.5	34.5	50	50	55.9	41.1	

### NON-FATAL ACCIDENTS.

The tables following contain statistics relative to accidents of this class, showing the number by districts for the present year, for a series of years, particular occupations of those injured, conjugal relation of the injured, and the causes of accidents and time lost; also the percentages from year to year of men employed, tons produced, men killed and men injured:

# Table XLV — Non-Fatal Accidents, by Districts, 1899.

District.	Number of men injured.	Total number of employés.	Total number of tons of coal mined.	Number of employés to one man injured.	Number of tons of coal mined to one man injured
First	148	7,498	3,535,316	51	23, 887
Second	93	6,631	3,326,000	71	35, 763
Third	17	1,799	729, 132	106	42,890
Fourth	119	4,655	3, 357, 737	39	28, 216
Fifth	68	6, 401	4,810,626	94	70,745
Sixth	92	5,008	4, 283, 258	54	46,557
Seventh	60	4,999	3, 392, 376	83	56, 540
The State	597	36,991	23, 434, 445	62	39, 254

# Table XLVI.—Non-Fatal Accidents for Seventeen Years.

Year.	Number of men injured.	Total number of employés.	Total number of tons of coal mined.	Number of employés to one man injured.	Number of tons of coal pro- duced to one man injured.
1883	231	23, 939	12, 123, 456	104	52, 482
1884	197	25,575	12,208,075	130	61,970
1885	176	25, 446	11,834,459	145	67, 241
1886	171	25,846	11, 175, 241	151	66, 126
1887	180	26,804	12, 423, 066	149	69,017
1888	179	29,410	14, 328, 181	164	80,046
1889	201	30,076	14,017,298	150	69, 738
1890	294	28,574	15, 274, 727	97	51,955
1891	367	32,951	15,660,698	90	42,672
1892	370	33, 632	17,062,276	91	46, 114
1893	403	35,390	19,949,564	88	49,503
1894	521	32,635	17, 113, 576	63	32,848
1895	605	31,962	17, 735, 864	53	29, 315
1896	672	33,054	19, 786, 626	49	29,444
1897	518	33, 788	20,072,758	65	38, 751
1898	438	35,026	18, 599, 299	80	42, 464
1899	597	36,991	23, 434, 445	62	39, 254
Averages, 17 years	360	30,653	16,047,036	85	44,575

Total injured. Total enployés Total tons 17 years. Average.	272 799,609
Average	924 (0118

Table XLVII.—Non-Fatal Accidents by Occupation and Districts, with Totals and Percentages.

			D	ISTRICT					Per-
Occupation.	First	Second	Third	Fourth	Fifth	Sixth	Sev- enth.	Totals.	eent- ages.
Blacksmith	1						1	2	0.33
Cagers	2	1	1	1	1	1	1	8	1.34
Carpenters		1		1			1	3	.50
Dirtman				1				1	.17
Drillers						2		2	, 33
Drivers	33	10	4	17	24	24	19	131	21.94
Fire boss	1							1	.17
Firemen						1		1	.17
Gripper					1			1	.17
Laborers		3		31	4	3	4	45	7.54
Leverman				1				1	.17
Loaders				1	7	7	6	21	3.52
Machine men		1		5	5	8	5	24	4.02
Miners	102	66	11	53	20	38	20	310	51.93
Mine examiner					1			1	.17
Mine manager						1		1	.17
Pickers	1				1			2	. 35
Pumpmen							1	1	.17
Roadmen	2						1	3	.50
Shooters						2		2	.33
Shovelers						4		4	.67
Spraggers		2						2	.33
Stable boss				1				1	. 17
Superintendent		1						1	.71
Timbermen	2	5		1	1	1	1	11	1.55
Topmen	1			3				4	.67
Trackman		1						1	.17
Trappers	2			1	1			4	.67
Trimmers	1		1		2			4	.67
Trip riders		2	ļ		ļ			2	. 33
Trollyman				1				1	.17
Truckman				1				1	.17
Totals	148	93	17	119	65	92	60	597	100.00

Table XLVIII.—Conjugal Relation of the Injured and the Time Lost from Injuries.

District.	Total.	Married.	Single.	Children	Dependents.	No. of men reported as losing time.	Total days lost.	Average days lost per man.
First	148	82	66	142	201	137	5,831	42.6
Second	93	48	45	134	182	83	3,661	44.1
Third	17	11	6	31	42	17	1,108	65
Fourth	119	66	53	143	213	118	5,324	44.7
Fifth	68	27	41	72	73	C3	2,792	44.3
Sixth	92	60	32	178	238	90	3,147	35
Seventh	60	35	25	82	112	47	1,460	31
The State	597	329	268	782	1,061	555	23,323	42

Table XLIX.—Causes of Non-Fatal Accidents, by Districts.

			D	ISTRICT				The	Per-
Cause.	First	Second	Third	Fourth	Fifth	Sixth	Sev- enth.	State.	cent- ages.
Cages	4	1		1	2	1	1	10	1.68
Explosion of powder	2		1	2	2	6		13	2.18
Falling coal and rock	93	60	6	81	24	51	20	335	56.12
Falling down shaft					1			1	.17
Falling timber	1			1		1	2	5	.84
Fire damp		1			1			5	.84
Flying coal			2	4	1	4		11	1.84
Gas explosion	2							2	.33
Machines					2	3	1	6	1.00
Pit cars	10	25	7	21	22	19	25	159	26.63
Premature blasts		1		1	3		3	8	1.34
Railroad cars	2		1			1		4	.67
Miscellaneous	4	5		8	7	6	8	38	6.36
Totals	148	93	17	119	68	92	60	597	100.00

Table L—Percentages of Non-Fatal Accidents Cansed by Falling Roof and Sides—Seventeen Years.

	No:	N-FATAI	ACCID	ENTS.		No	N-FATAI	Accidi	INTS.
YEAR.	Total.	Falling roof and sides.	other	Per cent caused by fall- ing roof or sides.	YEAR.	Total.	Falling roof and sides.	other	Per cent caused by fall- ing roof or sides
1883	231	130	101	56.28	1892	370	234	136	63.23
1884	197	135	62	68.53	1893	403	254	149	63.00
1885	176	118	58	67.00	1894	521	294	227	56.43
1886	171	109	62	63.74	1895	605	338	267	55.87
1887	150	124	56	68.88	1896	672	373	299	55, 51
1888	179	112	67	62.58	1897	518	310	208	59.85
1889	201	129	72	64.17	1898	438	252	186	60.87
1890	294	196	98	66.66	1899	597	335	262	56.15
1891	367	227	140	61.85	Total	6, 120	3,670	2,450	60.00

Table LI—Total Number Killed and Injured, with Percentages of all Accidents Occasioned by Falling Roof or Sides During Seventeen Years—1883-1899.

V		Number.		1	PER CENT.	
YEAR.	Killed.	Injured.	Total.	Killed.	Injured.	Total
1883	134	231	365	30	56.28	47.7
1884	46	197	243	56.5	68.53	66.25
885	39	176	215	51.3	67	64.18
886	52	171	223	61.5	63.74	63.23
887	41	180	221	68.3	68.88	68.77
888	55	179	234	60	62.58	61.97
849	42	201	243	61.9	64.17	63.78
890	53	294	347	67.9	66.66	66.86
891	60	367	427	55	61.85	60.88
892	57	370	427	49.1	63.25	61.36
893	69	403	472	69.6	63.03	63.98
894	72	521	593	58,3	56.43	56.52
895	75	605	680	50.7	55.87	55.59
896	77	672	749	53.3	55.51	55.27
897	69	518	587	66.7	59.85	60.65
898	75	438	513	57.33	60.87	60.34
899	84	597	681	60.71	56.12	56.68
17 years	1,100	6,120	7, 220	55.91	59.97	59.35

Table LII—Percentages of Increase and Decrease from Year to Year of Men Employed, Tons Produced, Men Killed and Men Injured.

X7	MEN EM	PLOYED.	Tons Pi	ODUCED.	Kil	LED.	Inju	RED.
YEAR.	Increase	D'crease	Increase	D'crease	Increase	D'crease	Increase	D'crease
1883 to 1884	6.83		0.7			65.67		14.72
1885		0.5		3.06		15.22		10.66
1886	1.57			5.57	33.33			2.84
1887	3.71		11.17			21.15	5,26	
1888	9.72		15.34		34.15			0.56
1889	2.26			2.17		23.64	12.29	<b>.</b>
1890		5.00	8.97		26.2		46,27	
1891	15.31		2.53		13.2		24.83	
1892	2.07		8.95	 		5.00	0.82	
1893	5,23		16.92		21.05		8.92	
1894		7.78		14.22	4.35		29.28	
1895		2.06	3.64		4.17		16.12	
1896	3.42		11.56		2.67		11.07	
1897	2.22		1.45			10.4		8.04
1898	3.66			7.34	8.7			15.44
1899	5,61		26.00		12.00		36.3	

NATIONALITY OF COAL MINERS AND COAL MINE EMPLOYÉS.

In the preparation of this year's report, the Mine Inspectors were requested to furnish this office with a list, showing the nationality of all classes of employés engaged in the coal industry. It will be observed that, of the total employés reported, 43 per cent are natives. Americans, English, Scotch and Irish comprise 62 per cent of all employés. Of the foreign speaking element, the German predominates, representing 11 per cent of the employés. Of the entire number, 861, or 2 per cent were returned as unknown. The table following presents the number and nationality of each in the several districts:

	,	
Ġ.		

Table LIII.—Showing the Nationality

			-					
Counties and Districts.	American.	English.	Seotch.	Irish.	Welsh.	German.	French.	Italian.
Grundy	211 69	553 25	329 23	254 6	126 11	156 3	36	1,020
LaSalle Livingston Will	468 90 4	553 70 17	230 23 16	305 19 22	89 18	298 18 1	67 6	16 30
First District	842	1,218	621	606	244	476	109	1,28
Bureau	258 86	291 32	162 6	194 18	47 1	167 39	11	78
Henry Marshall	142	24		50	8	63	15	5
Mercer	380	150	37	29	25	27		
Peoria Rock Island	817 79	77 24	28 37 22 3 2	14 2	5	176 30	17	
Stark	63	11	2	4				
Woodford	49	31	19	16	2	33	18	40
Second District	1,874	640	279	327	91	535	61	879
Brown.	22 875	3	37	5 24	41	31		
Fulton Hancock	25	145	31		41	- 01		
Knox	104	14	7	3	1		1	
McDonough	146 35	99 2	8	16	5	4		
Warren	47			5				
Third District	1, 254	264	54	53	47	35		
Cass	9	1		5				
Logan	110	30	7	11	3	86	4 3	30
Macon McLean	36 58	19 20	14 15	26 30	3 2 4	34 37	4	30
Menard	294	51	5	58.	5	52	i	-
Tazewell	95	37	8	. 16	2 41	51 217	68	105
Vermilion	1,181	143	79	154	41		- 65	10.
Fourth District	1,783	301	128	300	57	477	80	140
Calhoun	9 739	200		3 31		6 34	6	
ChristianGreene	32	20 15		2 6		1		
Jersey	6	1	2	. 6	32	5		50
Macoupin Montgomery	831 361	107 14	64 13	118 20	32 12	674 30	17 5	37
Morgan	- 8	3		1				
Sangamon	1, 252	185	76	341 3	55 5	339	20	69
Scott Shelby	38 94	7 10	3	12		6	3	11
Fifth District	3,370	364	174	537	107	1,095	51	179

of all Employés at the Mines in the State.

Counties and Districts,	Austrian and Bohemians.	Hungarians.	Poles.	Belgian.	Russian.	Danes, Swedes and Norwegians	Unknown.	Total.
3rundy	151	118	114	60	42		128	3.298
Kankakee	10 262	534	497	17	45	90		3,57
LaSalle	12	12	15	11	45	20		31
Vill			10	3		16		10
First District	435	664	636	112	55	36	128	7,49
Bureau	11		504	100	42	116	385	3, 07
Henry				5		96		28
larshall Iercer	113		109	22	50			68
dercer	10	9		1		119		79 1, 13
Peoria	·····i							1, 10
Stark						- 2		8
Voodford			192	42				44
Second District	135	9	507	173	92	341	388	6, 63
	-			·				
Brown	2i						20	1, 20
Hancock Knox							Δ	26 16
deDonough						7		28
Schuyler								4
Warren								5
Third District	21					40	24	1, 79
							5	
ogan			10					261
ogan			189	2		141	23	26 37
Jogan Macon McLean			189 19	2		141		26 37 38 57
Jogan Jacon McLean Menard Pazewell	2		189 19 20	2	3		23 53	26 37: 38: 57: 21:
ogan Jacon IcLean Jenard Pazewell	2		189 19	2 	3 151 154	42	23 53 35 5	26: 378 387 570 21- 2,828
.ogan daeon de Lean denard Pazewell Vermilion	2 	73	189 19 20	180		19	23 53 35 5 194	26: 378 387 570 21- 2,828
.ogan dacon de Lean denard lenard Pazewell Fermilion Fourth District	2 	73	189 19 20 145 383	180		19	23 53 35 5 194	26 378 387 570 21 2, 823 4, 653
.ogan facon felean felean fenard 'azewell 'ermilion Fourth District 'alhoun hristian freene	2 	73	189 19 20	180 182		19	23 53 35 5 194	26 37) 38 57( 21, 2, 82) 4, 65)
.ogan facon facon felean felenard azewell 'ermilion Fourth District 'alhoun 'hristian ireene ersey	2 	73	189 19 20 145 383	180 182		19	23 53 35 5 194 315	26 37 38 57 21 2, 82 4, 65
ogan dacon dacon de Lean denard (azewell 'ermillon Fourth District albonn Bristian irecne ersey daconpin	48 50	73	189 19 20 145 383	180 182		19	23 53 35 5 194	26 37 38 57 21 2, 82 4, 65
ogan facon facon felean felenard Parewell Pourth District  'alhoun 'hristian ireene ersey faconpin Jontgomery	2 	73	189 19 20 145 383	180 182		19	23 53 35 5 194 315	26 37 38 57 21 2, 82 4, 65 2, 17 51 11
ogan lacon le Lean lenard lenard "azewell "cernilion Fourth District "alhoun hristian ireene ersey lacoupin lontgomery lorgan angamon	48 50	73	189 19 20 145 383	180 182		19	23 53 35 55 194 315	26 37 38 57 2, 82 4, 65 2, 7 5 2, 17 5 11 2, 50
oggn dacon de Lean de Lean denard Permilion Fourth District Calhoun hristian Freen Hacoupin Hontgomery Horgen angamon scott	48 50	73	189 19 20 145 383 14 36 7	180 182		19	23 53 35 55 194 315	26 37 37 21 2, 82 4, 65 4, 65 2 2, 17 51 11 2, 50 5
Vermilion	48 50	73	189 19 20 145 383 14 36 7	180 182		19	23 53 35 55 194 315	26 26 37 37 57 21 2, 82 4, 65 4, 65 51 51 11 2, 50 51 17

Nationality of Employés
Table LIII.

Counties and Districts.	American.	English.	Scotch.	Irish.	Welsh.	German.	French	Italian.
Bond Clinton Madison Marion St. Clair	156 182 485 659 974	5 12 87 19 250	3 8 20 20 45	4 25 72 16 46	32 3 34	10 249 226 162 684	21 9 19	4 124 24 43
Sixth District	2,456	373	96	163	70	1,331	51	195
Gallatin	68 11 1,080 67	2 31 4	7	1 13 5	9	27 4		128
Johnson Perry Randolph Saline Washington Williamson	1,016 359 159 43 1,178	100 43 4 4 3	11 14 11 23	29 25 6	10 4 1	77 32 3 29 15	12 6	68
Seventh District	4,001	234	60	100	29	189	19	335
The State	15, 580	3, 394	1,412	2,086	645	4, 138	373	3,016
Percentages	43.12	9,40	3.91	5.77	1.79	11.45	1.03	8.35

A general recapitulation of all the principal totals presented by the returns from the seven inspection districts will be found in the following table. Succeeding this appears the reports of the State Inspectors for the several districts of the State, followed by an

at the Mines.

#### -Concluded.

Counties and Districts.	Austrian and Bohemians.	Hungarian.	Poles.	Belgian.	Russian.	Danes, Swedes and Norwegians.	Unknown.	Total.
Bond Clinton Madison Marion St. Clair	79	8 i3	66 12 4		. 3			181 482 1, 295 927 2, 123
Sixth District	82	21	82	15	73			5,008
Gallatin Hamilton Jackson Jefferson Johnson Perry Randolph Saline	1 1	1	12		1			73 11 1, 295 85 26 1, 336 486 173
Washington		1	23		<u>5</u>			1, 427 4, 999
The State	975	774	2, 133	487	498	619	561	36, 991
Percentages	2.70	2.14	5.9	1.35	1.38	1.71		

appendix containing the register of certificated mine managers; hoisting engineers; mine examiners; inspection fee accounts; the revised mining law and other acts relating to mining, also the reports of the Superintendents of the Free Employment Offices for a period of nine weeks to October 1, 1899.

## Table LIV.—Recapitulation

#### STATISTICS OF COAL MINING IN ILLINOIS

			M	INE	s.			Proi	UCT.		VALU	ES.
Districts.	Number of counties.	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	Total tons produced.	Tons of lump coal.	Tons of other grades.	Tons shipped.	Aggregate value of total product.	Average value of lump at the mine.
First	5	84	37	47	11	13	3, 535, 316	2, 677, 359	857,957	2,999,604	\$3,368,762	\$1,139
Second	8	185	45	140	25	24	3, 326, 000	2,669,631	656, 369	2,877,142	3, 475, 973	1.191
Third	7	211	23	188	53	59	729, 132	600,280	128, 852	561,664	696, 505	1.07
Fourth	7	87	37	50	3	10	3, 357, 737	2,404,385	953, 352	2,746,842	2, 573, 100	.8513
Fifth	10	87	51	36	11	3	4,810,626	3,480,311	1, 330, 315	4,095,235	3, 318, 120	.8215
Sixth	5	104	72	32	13	7	4, 283, 258	3, 294, 077	989, 181	3, 673, 707	2,653,912	.7169
Seventh	10	131	57	74	15	7	3, 392, 376	2,301,555	1,090,821	3,064,957	2, 322, 098	.8224
Totals	52	889	322	567	131	123	23, 434, 445	17, 427, 598	6,006,847	20, 019, 147	18, 408, 470	
Averages												*\$0.9186

<sup>\*</sup> Average value of other grades, per ton: First district, 59.6 cents: second district, 44 cents; third district, 41.3 cents; fourth district, 55.09 cents; fifth district, 34.56 cents; sixth district, 29.5 cents; seventh district, 39.35 cents.

by Districts.

FOR THE YEAR ENDED JUNE 30, 1899.

Ex	11-LOY	ES.	of days of -all mines.	or mules about the		WAGE	is.	powder	MAG	CHINES.	(	'AS TI	UA: ES,	<u>լ</u>
Number of miners.	Number of other employés,	Total number of employés.	Average number of di active operation—all	umber of horses employed in or mines.	For hand gross	per	Total amount of wages paid during the year to all employes excepting office help.	Number of kegs of pused.	Number in use.	Yotal tons cut by machines.	Killed.	injured.	Widows.	Children.
			۷.	Z	14	<u>r</u>	F	4 4	Z4		<u>*</u>	Ξ.	-	
5,688	1,810	\$7,498	188	567	<b>\$0.</b> 596	\$0.37	82, 835, 177	27,002 1	9	42,076	7	148	3	15
4,920	1,711	6, 631	181 - 5	645	.577	.27	2,508,457	53, 458, 2	9	64, 718	12	93	3	12
1, 415	384	1,799	146, 3	198	.475	.275	519, 883	23,112 2	4	25,471	1	17	3	5
3,056	1,599	4,655	199	426	. 431	.291	2,084,107	70,924, 9	66	1,083,361	11	119	5	23
4, 421	1,980	6, 401	190	621	.403	.324	2, 655, 965	100, 756 15	144	1,892,040	14	68	9	33
3,583	1, 425	5,005	196.8	512	.40	.329	2, 182, 747	68, 883 23	144	2, 169, 954	22	92	14	35
3, 366	1,633	4,999	159	557	.345	.281	1, 820, 219	79, 348 12	64	807, 692	14	60	9	23
26,449	10, 542	36, 991		3,526			\$14, 616, 555	423, 483 64	440	6, 085, 312	84	597	46	155
			174.6		*80.471	†80.3134								

<sup>\*</sup>Average price for 16,861,487 gross tons; average price for mining 367,281 screened tons, 86.1 cents per ton.
† Average price for 6,085,312 tons mined by machine. 120,365 tons mined in the fourth district and paid for at \$1.50 per day.



## ANNUAL REPORTS

OF THE SEVERAL

# State Inspectors of Coal Mines



## FIRST INSPECTION DISTRICT-1899.

Counties: Grundy, Kankakee, LaSalle, Livingston, Will. HECTOR MCALLISTER, Inspector, Streator.

HON. DAVID ROSS, Secretary,

State Bureau of Labor Statistics, Springfield, Illinois:

SIR:—In compliance with section 12 of the mining law of this State, I herewith submit the sixteenth annual report of the coal mines in the First Inspection District, for the year ending June 30, 1899. This report presents tabulated statements showing the number of mines in operation, both shipping and local; the depth of coal below the surface; the geological number and thickness of the various seams; the number of new and abandoned mines; the total number of persons employed at each mine; the number of tons of lump coal, and of other grades, with the average value of both at the mines; the aggregate value of the total product; the number of kegs of powder used; the casualties in and around the mines; the number of widows and orphans, and the number of days of active operation in all mines in the district.

The following is a summary of the statistics for the year:

Total number of mines	S4
Number of shipping mines	37 47
Number of new mines.	11
Number of abandoned mines	13
Number of miners	5, 688
Number of other employés	1,810
Total number of employes,	7,495
Number of fatal accidents.	
Number of non-fatal accidents	145
Number of wives made widows. Number of children made fatherless.	15
Total tons of coal produced	3, 535, 316
Tons of lump	2, 577, 359
Tons of other grades	\$57, 957
Tons of other grades Average value per ton of lump coal at the mine.	\$1.139
Average value of other grades per ton	80.401
Aggregate value of total product. Average price paid per gross ton for hand mining	\$3, 365, 762
Average price paid per gross ton for hand mining	80.596
Average price paid per gross ton for machine mining	\$0.3
Average number of days of active operation	188.5
Mines using machines	04
Number of kegs of powder used	27, 002
Tons of coal cut by machines	42,076
Number of machines in use	
Number of tons of coal shipped	2,999,604
Tons sold to local trade	435, 152
Tons consumed at the plant	97,560
Tons of coal mined to each fatal accident	505,045
Tons of coal mined to each non-fatal accident	23, 887 1, 071
Number of employes per ratal accident.  Number of employes per non-fatal accident.	1,071
2. different of employees per not tatal accident	01

Coal production by counties in the First District, with increase or decrease in each, for the years ended June 30, 1898, and 1899:

	Total Output of of Coal in			
Counties.	1898.	1899.	Increase.	Decrease.
Grundy Kankakee. LaSalle Livingston Will	84,632 1,165,490	1, 280, 332 129, 018 1, 975, 939 117, 248 32, 779	44,386	4,830 8,120
Total	2, 209, 362	3,535,316	1,338,918	12,964
Increase				1,338,918 12,96
Net increase				1, 325, 95

The district shows an increase in output over that of 1898 of 1,325,954 tons, or 60.6 per cent. The largest increase is in LaSalle county, which is 810,449 tons, or 69.5 per cent. Grundy county comes next with an increase of 484,093 tons, or 60.8 per cent, and Kankakee shows an increase of 44,386 tons, or 52.4 per cent. Will county shows a decrease of 8,125 tons and Livingston county 4.839 tons.

New Mines.—Grundy county.—The Chicago, Wilmington & Vermilion Coal Co. has opened a new mine in Grundy county, three and a half miles from Gardner. A town site has been located, which will bear the name of South Wilmington. About twenty houses have been built and many others are in course of construction. The shaft is 189 feet to the coal, which is No. 2 of the geological section; a new steel tower has been erected; the engine and boiler houses are covered with galvanized corrugated iron; a shaker screen has been put in, and the plant is in every way first class and intended for a large output.

The Star Coal Co. has reopened its No. 1 mine at Carbon Hill, Grundy county. This mine was destroyed by fire two years ago. The company has erected a new tower, engine house, and all necessary out-buildings, and the plant has been put in first class condition.

James Heather has opened a new mine near Morris.

Tasdal Bros. have opened a new mine at Nettle Creek, about nine and a half miles northwest of Morris.

John Telfer has opened a new mine near Morris.

George R. Blair has reopened his No. 4 mine near Morris.

William Wood has abandoned his mine at Morris and sunk a new shaft about 400 feet west of the old one.

Milo E. Howe purchased the mine formerly operated by Charles Heather, but abandoned the same after operating it a short time.

Thomas Fleming & Co. have purchased the mine formerly operated by William Laherty, near Morris.

La Salle county.—Price, Jones & Co., have opened a new mine one mile north-west of Streator.

Bargreen Bros., have opened a new mine one mile south-west of Streator.

James Penman has opened a new mine one mile southwest of Streator.

Dawson & Gray have opened a new mine near Streator.

J. C. Dawson & Co., have opened a new mine at Deer Park.

Livingston county.—A. W. Pank & Co., have opened a new mine two miles south of Streator.

Abandoned mines.—A. M. Barackman has abandoned his mine at Coalville, Livingston county, and purchased the mine formerly operated by Oscar Kimes, of the same place. He has put in a switch from the Santa Fe railroad to the mine, and has also erected a new tower, put in a pair of hoisting engines and a fan, and now has the mine in first class condition.

L. A. Munts & Sons have abandoned their mine at Streator and opened a new mine about one mile northwest of Streator, in Livingston county.

Joseph Kilburn has abandoned his mine near Streator, in Livingston county.

Edgar Hamilton has abandoned his mine near Streator, in Livingston county.

The Kimes Cooperative Co., opened a new mine in Coalville, but abandoned the same after operating about six months.

The Chicago, Wilmington & Vermilion Coal Co., has abandoned its "R" shaft near Braidwood, Grundy county.

The Gardner Wilmington Coal Co., has abandoned its mine at Gardner, Kankakee county.

The Pontiae Coal Co., Pontiae, Livingston county, has abandoned the No. 2 seam; there being so many faults and slips in the coal, it would not pay to operate it, and have commenced developing seam No. 5 of the geological section.

William Thomas & Co., have leased the mine formerly operated by D. W. Thorne, one-half mile west of Streator.

Henry Wonders has leased the mine formerly operated by C. G. Darm, one mile south of Streator.

Charles Kain has abandoned his mine at Deer Park, La Salle county.

Prospective Mines.—The Campus Coal Co., has sunk a new shaft two miles north of Campus, Livingston county, on the Wabash railroad; the shaft is 255 feet deep to No. 2 seam of the geological section; the coal is 3½ feet thick. In sinking the company passed through a seam of coal 12 feet thick, 4 feet above the 3½ foot seam. At the present time the company is developing the thicker seam.

The Star Coal Co., of Streator, is now sinking a shaft near its No. 2 mine at Kangley, La Salle county, to the No. 2 seam, which is 210 feet below the surface.

The Big Four Wilmington Coal Co., has sunk a slope at its "Marie" mine as a traveling way for the employes; there is also a good escape shaft at this mine. This company is now sinking a slope, dipping about 25 degrees, one

mile from this mine. This will be a new departure from hoisting coal out of a vertical shaft in this district and the result will be looked upon with much interest.

Improvements.—The Star Coal Co., at its No. 2 mine at Kangley, La Salle county, has sunk an air shaft at the face of the north workings, and has also made connections with an old shaft on the west side, which has greatly improved the ventilation of the mine.

The Chicago, Wilmington & Vermilion Coal Co., at Streator, has put in an electric haulage plant at its No. 2 mine. One locomotive is already in operation, and the second one will be put in operation in a short time.

The La Salle Carbon Coal Co., La Salle, has erected a new 14 foot fan of their own design, to take the place of the 10 foot fan formerly in operation at its Union mine, which has greatly improved the ventilation. A shaker screen has also been put in at this mine.

Fatal Accidents.—September 16. 1898, John Robinson, a miner, aged 49 years, married, was fatally injured by a fall of rock at the face of his room in the Star Coal Company's mine No. 3, Carbon Hill, Grundy county. Deceased had cut up one side of the brushing and entered a wedge over the top, intending to take it down, but, it being quitting time, he went home, intending to take it down in the morning. However, he neglected to do so, and commenced to load coal without examining the rock. About 10 a. m. the rock fell on him, crushing him so that he died about 3 p. m. He leaves a widow and six children, of whom two are dependent.

This accident was due to his own negligence. With proper care in taking the rock down, or putting a prop under it, the accident would have been avoided.

September 27, 1898, James Fairley, a miner, aged 22 years, single, was instantly killed by a fall of rock in the Star Coal Company's mine No. 3, Carbon Hill, Grundy county. Deceased and his partner had been taking down some rock at the face, and were in the act of cleaning it away, when, without any warning, a great mass of rock fell on him, resulting as stated.

October 27, 1898, Gus Downey, miner aged 45 years, single, was instantly killed by a fall of rock at the face of his room in the sixth right, northeast entry in the Chicago, Wilmington & Vermilion Coal Company's mine No. 1, at Heenanville, La Salle county. Deceased and his partner had been notified that morning to put more props in their room, as there was a fault or slip in the roof, running diagonally across the face of the room, which they did before commencing work. About 2 p. m. they fired a blast in the coal, returning immediately before the smoke had cleared away, when a stone fell on him, resulting as stated.

January 16, 1899, Edward Wheelwright, miner, aged 60 years, single, was fatally injured by a fall of rock in his roadway about thirty feet from the face of his room in the Star Coal Company's No. 2. mine at Carbon Hill, Grundy county. Deceased was eating dinner at the time of the accident. A piece of rock fell on him, breaking one of his legs and seriously injuring him about the back. He died two days after receiving his injuries.

January 24, 1899, Otto Gribkos, miner, aged 30 years, single, was instantly killed by a fall of rock at the face of his room, in the No. 1 mine of the La Lalle County Carbon Coal Co., at La Salle. Deceased had taken off a break of coal, and instead of propping up his place where he had taken the coal out, which is customary in long-wall workings, the props being about six feet from the face, he commenced mining again, and just as he had got down to work, a large rock, weighing about 3,500 pounds, fell on him, killing him instantly.

January 26, 1899, Peter Herman, miner, aged 48 years, married, was instantly killed by the ascending eage, about 3:30 p. m., in the Chicago, Wilmington & Vermilion Coal Company's mine No. 1, at Heenanville, La Sale county. It appears from the evidence, that deceased, with fifty or sixty others was at the bottom of the shaft, waiting to go out at quitting time. The mine manager, Robert Jordan, gave the signal to the cager to quit, as they do not blow the whistle until four o'clock. The cager pulled the empty car off the cage and told the men to stand back; he then commenced to ring three bells, and while in the act of ringing, the men in the rear pushed the men in front onto the eage, when the cage was suddenly started and caught deceased between the cage and door head, killing him instantly. He leaves a widow and six children, all dependent.

March 16, 1899, John Crossen, miner, aged 50 years, married, was instantly killed by a fall of rock at the face of his room in the Chicago, Wilmington & Vermilion Coal Company's mine No. 1, at Heenanville, La Salle county. Deceased and his son had put off two blasts, and after waiting a reasonable time for the powder smoke to clear away, they returned to the face of the room. The son sounded the roof and thought there was no danger; but there was a slip running diagonally across the room at the face. The son told his father to stand back and he would take down the loose coal, but before he could do so, a large rock fell from the slip in the roof, killing the father instantly. Deceased leaves a widow and six children, two of whom are dependent.

The tables of casualties follow, also the statistical tables by counties, giving in detail all information regarding the industry in the district.

Respectfully submitted,

HECTOR MCALLISTER,

Streator, Illinois. State Inspector of Mines, First District.

## Fatal Casualties—First District, 1899.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Depend'nts	Cause of Accident.
Jan. 16	John Robinson James Fairley Gus Downey  Edward Wheelright. Otto Gribkos Peter Herman John Crossen  Total—7.	60 30 48 50		Carbon Hill. LaSalle Streator	 'i	1 1	 6 6	1		Ascending cage

# Recapitulation of Fatal Casualties—First District, 1899.

Residence.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery. No
Carbon Hill LaSalle Streator	1	Miner	7	Ascending cage Falling rock	1 6	Chi., W. & V. C. Co., LaSalle Co. Coal Co., Star Coal Co
Totals	7		7		7	

## Non-Fatal Casualties—First District—July 1, 1899.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of Injury.	Time lost-days.
3 3 7 9 11 16 23 Aug. 10 18 27 29 Sept. 2 29 Sept. 2 13 13	Wm. McLuckie John Gasper Chas, Pihira Albert Johnson Chas, Anderson Martin Cugnot Dan Davis William Beard Wm. Kuniciah James Dunn William Jaeski.	72 50 46 46 21 23 29 42 27 35 42 35 40 28 36 20 34 40 40 40 40 40 40 40 40 40 4	Streator Carbon Hill. Braidwood. Kangley Heenanvilie Braceville. Streatori Lasalle. Streatori Carbon Hill. Kangley Carbon Hill. Kangley. Braidwood. Oglesby. Braidwood. Streator Lasalle. Streator Streator	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1  1  1	4	5	Foot injured Leg broken. Hand injured Foot injured. Leg broken. Back injured. Arm injured. Arm injured. Leg injured. Head and back injured. Leg injured. Leg injured.	21 14 21 777 18 8 2077 18 8 14 49 90 30 21 14 49 49 45 49 45 41 120 14 120 14 18

#### Non-Fatal Casualties—First District—Continued.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of Injury.	Time lost
1898.									
Sept 21	John Jones Walter Hyson Andrew Hudak John Clark A Komera Geo. Hepplewhite John Murphy Thos. Olver Mike Peters Mike Jennings James Mulligan	28 39	Streator	1		1 6	****	Hand injured	16 52 30 25 21 24 22
24	Andrew Hudak	21	Streator		1			Foot crushed	30
26	John Clark	58	Diamond	1	i	2	3	Foot crushed. Thumb injured Back injured.	25
29	Geo. Hepplewhite	55	Braidwood	···i			i	Knee injured	24
Oct. 12	John Murphy	60	Oglesby	1		1	1 1	Foot injured	142
18	Mike Peters	38	Kangley	1			1	Back Injured. Knee injured. Foot injured. Leg broken. Hip injured. Leg broken. Hip injured. Hip injured. Hip injured. Hand injured. Hand injured. Hand injured.	25 160
26	Mike Jennings	35	Pontiac	1			1	Leg broken	160
Nov. 3	James Mulligan Chas. Thorne	30	Streator	1		*	1	Hand injured	20 12
	tieorge Biros	17			1			Face and hands burned	25
9	John Shema Frank Hula	15		1		4		Head and shoulder bruised Foot crushed	
14	Gasperdino Rolla	30	Braidwood					Hand crushed	99 28 28
19	Alex Oyes	24	Kangley	1			1	Foot crushed	28 90
25	John Gardner Mike Pack	53	Braceville		····i			Leg broken Leg and thigh broken Face and hands burned	152 12
25	A. A. Brown	40	Fairbury	1			5	Face and hands burned	12
27	David Johnson Jerome Stainful	30	Kangley			2	1	Face and hands burned Leg broken Finger smashed Foot injured Skull fractured, eye put out. Legs injured Foot bruised Foot bruised Finger injured Ribs broken	60
29	A. Balzarmia	35	Carbon Hill.	î			î	Foot injured	14
Dec. 1	Anton Cisgnik James Feeney James Morison	30	LaSalle		1			Skull fractured, eye put out	14
** 5	James Morison	30	Carbon Hill.		í			Foot bruised	21
				····i	1			ringer injured	35
6	Chris White Fred Hardman	25	LaSalle	1			1	Ribs broken Bones in hand broken	34
7	Nat Offergelt	11		1		5	6	Both legs out off	42
	Barney Gado	29	Braceville		1			Arm broken Back injured Body injured	152 42
8	William Walker	25	Braidwood				2	Body injured	35
10	Alex Gilmour William Walker M. Fermee	42	Carbon Hill.		1				1.5
				1			1 1	Collar bone broken Wrist fractured	50 29
** 13	Pat Woods. B. Berno. P. Ledger F. Marietta J. Borilla John Fisher. Paul Filnito	35	Carbod Hill.	î			î	Leg broken. Foot injured Thumb broken. Leg broken.	29 70
15	P. Ledger	22	Braidwood	····i	1			Foot injured	28 63
* 19	J. Borilla	25	Carbon Hill.	1	····i			Leg broken	63
20	John Fisher	44	Streator	1		2	3	Hip injured. Back bruised Side bruised.	60 35
99	Allen Hill	26	Carbon Hill.	···i	1	• • • •	····i	Side bruised	64
29	John McLean	14			1				35
30	Peter Martin,	46	C. B. June	1		3	1	Side bruised	18 42
31	Joe Barto Isaac Painter	23	Streator		1			Side bruised Back injured. Foot crushed.	28
1899.									112
1	Luis Bertino A. Perona	34	Braidwood.	1				Leg broken. Hand injured. Hand bruised Collar bone broken. Finger crushed Side injured.	50
7	LawrenceDropuh	18	LaSalle		1			Hand bruised	16
10	Joe Sinkula M. Famborine	35	Carbon Hill	1		• • • • •	1	Finger crushed	112 42
16	Thos. Mulligan	18	Braidwood.	1			î	Side injured	42
16	M. Famborine Thos. Mulligan Geo. Ledger J. Holden	26	Carbon Hill.						14 14
19	Wm. Mnrray	16			1			Leg injured	14
** 20	Wm. Murray William Gaede	33	LaSalle	1	1	3	4	Foot injured Leg injured Leg and ribs fractured	160
23	John Bidner Frank Delancy	35 28	Streator	1	i	- 3	- 4	Thumb crushed	14 21
25	Sam Monahan	56	Braidwood.	1			1	Knee injured	35
25	A. Holden	40	Coal City	1		2	3	Body scalded	35 21 14
30	Mathew Reid	24	Streator .		1	· · · · i		Leg injured	15
. 31	Mike Bognett	24	Kangley		1		آیِ	Back injured	14
Feb. 2	William Gaede. John Bidner. Frank Delancy. Sam Monahan. A. Holden. A. Schorper. Mathew Reid. Mike Bognett. John Chrishoure. Anton Vedech. J. Pallerson.	45	LaSalle	1		2	3	Foot bruised Kuee injured Body scalded Leg injured Back injured Side bruised Back injured Kuee dislocated	15 22
	T D-U	-0	Combon Tilli		1			L'non di logated	49

<sup>\*</sup>Still idle.

<sup>†</sup> Not returned to work at this date.

#### Non Fatal Casualties-First District.--Concluded.

18   John Cockburn   36	Date.	Name.	Age.	Residence.	Married	Single.	Children.	Dependent.	Character of Injury.	Time lost-
18   Matis Spanns   35   Streator   1	1899									
1   1   2   3   3   3   3   3   3   3   3   3	eb. 16	Peter Rolando	16	Diamond					Back injured	
1		Matis Spanis George Gordon	46	Streator	····i			····i	Collar bone broken	
25   1   25   1   25   25   25   26   27   27   28   28   27   27   28   28	18	John Cockburn	36						Shoulder injured	
18.   5   6   6   7   1   1   2   6   7   7   8   8   1   1   1   3   4   6   7   7   8   8   1   1   1   1   3   4   7   8   8   1   1   1   1   1   1   1   1		Thos. Holliday	28	D 14-063			2	3	Leg injured	
S.   Series   Serie	11 25	Henry Anderson.	15	La Salla				7	Finger crushed	4
S.   Series   Serie	27	D. Gilchrist	28	Carbon Hill.		1			Shoulder broken	١.
S. A. Dolinski.   26 Carbon Hill.   1	iar. o	Peter Barto	40	Oglesby	1				Leg bruised	
1	8	Henry Pasko	30	Corbon Hill	1		3	4	Pool injured	
1	8	Joseph Defash	29	La Salle					Foot injured	
1	** 13	R. Shorley	26	Carbon Hill.					Back injured	
1	13	Geo, Lisko	35	Kangley	1			2	Collar bone broken	
1	16	Anton Sanmski Mot Molineki	95	Braidwood	1					
20 David M. Jones   25 Braceville   1   2 Leg broken   1   21 Andrew Sivan   35 Coal City   1   5   6 Knee cap broken   21 J. Mollin   35 Coal City   1   1   2   2 Arm bruised   23 M. Koskoski   19 La Salle   1   1   2   2 Shoulder and side bruised   27 Lawrence Urlaw   35 Coal City   1   1   2   2 Shoulder and side bruised   27 Lawrence Urlaw   35 Coal City   1   1   2   2 Shoulder and side bruised   29 John B. Puella   18 Braceville   1   5   6 Back bruised   29 John B. Puella   18 Braceville   1   5   6 Back bruised   29 John Mulligan   34 Braceville   1   4   1 Leg bruised   4   1 Leg bruised   20 Jacob Kensikol   27 Carbon Hill   1   1   1   1   1   1   1   1   1	** 17							2	Foot injured	
21 J. Mollin.					1			2	Leg broken	
21 J. Mollin	20	Marco Vaserilo	43	Clark City		1			Leg broken	l
23 M. Koskoski   19 La Salle   1   5 ot and back bruised   27 Lawrence Urlaw   5	11 21	Andrew Sivan	135	Coal City				9	Arm bruised	ľ
27 Lawrence Urlaw   45   29 John B. Puella   18 Braceville   1   5   6 Back bruised   1   15   6 Back bruised   1   15   6 Back bruised   1   15   15   15   15   15   15   15	** 23	M. Koskoski	19	La Salle				l	Foot and back bruised	
3i J. Belario.   27 Carbon Hill.   1	27	Lawrence Hrlaw	145				2	2	Shoulder and side bruised	
3i J. Belario.   27 Carbon Hill.   1	29	John B. Puella	48	Braceville	1					
31 J. Belario.   27 Carbon Hill   1   Leg brnised   1   1   1   1   1   1   1   1   1	30	Joseph Komp John Mulligen	34	Braceville	1			7	Head and chest injured.	
pril I Luke Freme	** 31	J. Belario	27	Carbon Hill.		1		:	Leg bruised	
6 Joe Mashoda   40 Diamond   1   2   3 Leg broken   10 Joe Sokup   23 Braidwood   1   Ler injured   18 J. Hngho   41 Carbon Hill   1   Ler injured   18 J. Hngho   41 Carbon Hill   1   Ler injured   18 J. Hngho   41 Carbon Hill   1   Ler injured   18 J. Hngho   41 Carbon Hill   1   2   3 Back injured   18 J. Hngho   42 Carbon Hill   1   2   3 Back injured   18 J. Hngho   42 Carbon Hill   1   2   3 Back injured   18 J. Hngho   19 J.	pril 4	Luke Freme	40	La Salle				1	Footbruised	
10 Joe Sokup	6	Wm. Smedley	28	Streator		1			Leg broken	1
IS Thos. Alderson.	11 10	Joe Sokun	23	Braidwood.	1		l		Leg injured	
18 J. Hugno	18	Thos. Alderson	17	Diaga noodi.					Leg injured	
21 Jas. MeVey   53 La Salle   1   4   5 Leg broke   32 Rutland   1   1   1   1   1   1   1   1   1	. 18	J. Hugno	41	Carbon Hill.					Rack injured	
ay 6 John Poot   23 Rutland   1   1   1   1   1   1   1   1   2   1   1	20	Jacob Kreniski	59	Peru				5	Back injured	1 ×
S.A. Schoml.   33 Coal City.   1   2 Leg bruised.   11 M. Tervo.   38 Carbon Hill.   1   1 Arm burned.   11 Joe Cimera.   25 C. B. Junc.   1   1 Arm burned.   12 C. Franzkewith.   27 Braceville.   1 Arm broken.   13 Wm. Robinson.   30 La Salle.   1 Thumb crushed.   13 Wm. Shortimer.   15 Braidwood.   1 Finger injured.   12 John Stewart.   22 Diamond.   1   2 Hand injured.   18 Sidke Leonard.   22 Streator.   1   2 Side injured.   18 John Gilderman.   32 Carbon Hill.   1   2 Side injured.   18 John Gilderman.   32 Carbon Hill.   1   2 Side injured.   18 John Gilderman.   25 Pairbury.   1   2 Back injured.   12 Wm. John Stewart.   25 Pairbury.   1   3 Back injured.   17 August Belat.   35 Clark City.   1   2 Eye injured.   19 O'Hon. Sheradon.   21 Carbon Hill.   1   8 Back and leg injured.   22 Ed. Smith.   30   1   3 4 Back and leg injured.   32 Ed. Smith.   30   1   3 4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3   4 Back injured.   30   3	av 6	John Poot	23	Rutland	1		1	1	Spine injured	>
11 Joe Cimera.   25 C. B. Junc.   1 Arm broken   12 C. Franzkewith.   27 Braceville.   1 Arm broken   13 Wm. Robinson.   30 La Salle.   1 Thumb crushed.   31 Thos. Mortimer.   15 Braidwood.   1 Finger injured.   12 Diamond.   1   1   2 Hand injured.   18 Mike Leonard.   22 Diamond.   1   1   2 Hand injured.   1   1   2 Side injured.   1   3 Shoulder injured.   1   3 Shoulder injured.   1   3 Shoulder injured.   1   3 Sack and leg injured.   2 Side injured.   3 Side injured.   3 Sack and leg injured.   3 Sack an	8	A. Schoml	43	Coal City	1		1	2	Leg bruised	
12 C. Fyanzkewith   27 Braceville   1	11	M. Tervo	38	Carbon Hill.	1					
31 Thos. Mortimer.   15 Braidwood.	11 12	Joe Cimera C. Franzkowith	25	Braceville					Arm broken	
31 Thos. Mortimer.   15 Braidwood.	13	Wm. Robinson	30	La Salle					Thumb crushed	
S. Mike Leonard   22 Streator   1   Ribs fractured   S. John Gilderman   42 Carbon Hill   1   1   2 Side injured	31	Thos Mortimer	115	Braidwood		1			Finger injured	×
Henry Sheur   48 Feru   Back Injured	une 2	John Stewart	22	Diamond	1		1	2	Hand injured	1
Henry Sheur   48 Feru   Back Injured	8	Mike Leonard John Gilderman	12	Carbon Hill.		1	1		Side injured	1
Henry Sheur   48 Feru   Back Injured	9	Wm. Poppleton	22			1			Leg injured	
10   10   10   10   10   10   10   10	9	Henry Sheur	10	Peru		1			Back injured	
20 Thos. Sheradon   21 Carbon Hill.   1   Shoulder injured   1   20 James Cassett.   23 La Salle   1   Back and leg injured   1   22 Ed. Smith.   30   1   3   4 Back injured		John Moseley	16	Streator		1			Hip injured	*
20 Thos. Sheradon   21 Carbon Hill.   1   Shoulder injured   1   20 James Cassett.   23 La Salle   1   Back and leg injured   1   22 Ed. Smith.   30   1   3   4 Back injured	11 17	Angust Belat	35	Clark City	· · · i	l	'''i	2	Eve injured	
22 E.d. Smith 30 1 3 4 Back injured	20	Thos. Sheradon	21	Carbon Hill.		1	î		Shoulder injured	1 %
22 E.d. Smith 30 1 3 4 Back injured	20	James Cassett	23	La Salle		1	<u>.</u>		Back and leg injured	
appoint Menustergi	22	Ed. Smith	30				் எ	4	Back injured	1
" 26 John Ponk 30 Streator 1 Leg injured					····i			1	Leg injured	
Totals. 81 67 142 201					_	-				58

<sup>†</sup> Not returned to work. \* Still idle.

Total men injured. Not recovered July 1, 1899. Number recovered. Time lost by men recovered. Average time lost by men recovered.	11 137 531 days
Average time lost by men recovered	42.6

#### Recapitulation of Non-Fatal Casualties—First District—1899.

Residence.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery.	No
Braceville Braidwood Carbon Hill. Carbon Hill. Coal City. Coal Br. Jc. Diamond Fairbury. Heenanville. Kungley Las Salle Oglesby Pontiae Peru Rockwell Rutland, Streator	18 26 3 7 2 6 2 1 9	Blachsmiths. Cagers. Car trimmers. Drivers. Fire Boss. Miners. Pickers. Roadman. Timbermen Top man. Trappers.	2 1 33 1 102 1 2 2	Cage	33 60 1 1 2 1 40 2 2	Acme Coal Co Braceville Coal Co Brail, James. C. W. & V. Coal Co Ca. Salle Coal Co A. Salle Coal Co M. & H. Zine Co Oglesby Coal Co Pointiae Coal Co Rutland Coal Co Walton Bros. William Howe & Co. William Howe & Co William Howe & Co	2: 2: 2: 3: 3: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:
Total	145		148		148		14

Table showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Average and Percentage—First District.

				uts.	TIME	Lost	Jo .
Nature of Injuries.	Number.	Married.	Single.	Dependents.	Total days.	Aver- age days.	Per cent of injuries
Arm broken. Arm broken. Arm injured. Back injured. Body injured. Collar bone broken. Eye injured. Face injured. Feet injured. Foot and back injured. Fingers injured. Head and back injured. Head and instead injured. Lega and injured. Lega broken. Legs broken. Legs amputated. Leg and ribs fractured. Ribs injured. Ribs injured. Ribs injured. Shoulder injured. Shoulder injured. Shoulder injured. Spine injured. Spine injured. Spine injured. Thumb injured. Thumb broken. Wrist injured. Wrist injured. Thumb broken.	33 34 44 53 221 21 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1	3 7 2 4 3 1	1 10 11 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 16 5 5 5 29 16 4 7 7 15 5 21 21 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	292 533 4133 877 326 1311 399 726 155 155 230 105 209 209 310 155 209 165 209 177 34 1133 177 34 177 80 63 63 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	97.3 17.6 23.7 65.2 43.6 19.5 34.6 15.4 25.5 42 25.2 25.2 95.7 160 38.5 29.5 29.5 40 63 29.5	2,03 2,03 12,16 2,17 3,88 2,03 1,35 13,18 4,72 6,08 6,68 6,68 1,05 2,7 14,18 11,48 68 1,35 1,35 1,47 1,47 1,48 1,48 1,48 1,48 1,48 1,48 1,48 1,48
Total averages and percentages	148	82	66	201	5,831	39.04	100.00

#### Grundy County—First District—1899.

			Descript	non.		OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal—feet. Thickness of coal—feet and inches. Geological No. of seam Shaft, slope or drift.	Steam, horse or hand power. Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Braceville Coal Co., No. 4 Frederick Schultz. Wil. Star Coal Co., No. 5. Star Coal Co., No. 1. No. 2. C. W. & V. Coal Co., R." Wil. C. M. & Mig Co., No. 4. Big 4 Wilmington Coal Co Gard. & Wil. C. Co., No. 1 J. T. Espley & Co. James Heather. A. W. Telfer & Son. Griffith & Wren. William Wood. Harry Kay Frank Gilbride. William Laherty. John Telfer. George R. Blair Tasdal Bros. Totals.	Coal City Carbon Hill Braidwood Diamond Coal City. Gardner Morris!	103 3.2 2 Sh 77 2.8 2 2 1115 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	H S	316, 353 2, 0000 71, 680 12, 596 207, 723 35, 781 35, 781 35, 781 328, 000 230, 232 31, 330 4, 413 2, 340 1, 300 1, 319 1, 220 3, 000 1, 300 4, 400 1, 300 1, 300 1	1,890 57,757 10,122 173,418 110,164 27,672 200,000 187,163 9,582 4,113 1,876 900 1,018 1,020 2,560 1,200 2,580	110 13, 923 2, 474 34, 314 21, 315 8, 109 38, 000 43, 069 2, 351 200 500 100 100 200 200 200 200 200 200
	Averages						

Whole number of openings reported in 1898, 20. Number of new mines or places opened during the year, 4. Number of mines exhausted or abandoned during the year, 2. Whole number of openings reported for 1899, 22.

# $Kankakee\ County-First\ District-1899.$

	1		Description.						Оптрит.			
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades	
1 2	Gard. & Wil. Coal Co. "B" William Treasure Totals. Averages			4.8	7 2 	Sh.	S, H.	* M.	† 127, 322 1, 696 129, 018	78, 361 1,546 79, 907	150	

<sup>\*</sup> Mined by machine, 42.076 tons at 37 cents per ton. Whole number of openings reported in 1898, 2. Whole number of openings reported in 1899, 2.

# Grundy County, 1899—Concluded.

		VALUE	s.	EM	PLOY	ES.	ton-	onth	on.	d during employés help.		t the		CI- NTS
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22 22 22 22 22 22 22 22 22 22 22 22	\$1 04 1 75 1 13 1 04 1 04 1 25 1 04 1 04 1 25 2 00 2 25 2 25 2 25 2 25	\$0 25 64 18 18 18 25 25 49 70 70 70 80 80 80 80 80	\$284, 767 3, 363 74, 176 10, 972 118, 407 118, 408 36, 617 125, 600 205, 417 16, 579 2, 177 2, 137 3, 540 2, 178 2, 178 3, 178 3, 178 4, 178 4, 178 4, 178 5, 178 5	460 5 110 65 360 326 248 475 430 24 12 5 5 7 7 7 2 2 2 4 2 2 4 3 2 4 5 5 2 8 4 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1400 1 611 211 666 411 697 175 900 88 33 122 131 141 141 151 166 166 175 175 175 175 175 175 175 175	32 15	80 68 68 68 68 68 68 68 1 077 1 20 1 200 1	S. M.	269 200 298 102 269 251 62 245 236 225 262 257 300 270 150 220 200 150 270 128	\$272, 233 1, 660 71, 918 12, 696 177, 687 110, 514 31, 864 191, 264 207, 208 11, 626 1, 150 3, 408 2, 900 3, 900 1, 700 3, 900 4, 900 889 81, 119, 500	25	23 18 22 22 23 30 6 1 1 1 1 1 1 1 1 1 1 1 1	  2 1       	8 5 13 11 222 3 3
	\$1.077	\$0.2575					80.68.56		215					

# Kankakee County, 1899—Concluded.

-		VALUES.			EMPLOYES.			onth-	i.	during ployés p.		mules ut the		CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employes.	Price paid per gross ton hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or memployed in or about mine.	Patal.	Non-fatal.
1 2	\$1 47 2 00	\$0 56 50	\$142,509 3,167	83 6	119 2	202 8	80 47 1 00	s. м.	196 200	\$95,757 2,000	2,081	41		3
	s1 48	\$0.5577	8145,676	89	121	210	\$0 <b>4</b> 803	 	195	\$100,757	2,051	42		

# LaSalle County—First District—1899.

			DE	SCRI	PTIO	N.		•	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.  Thickness of coal-feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
34 5 6 7 8 9 10 112 13 14 15 16 17 8 19 20 1 22 23 24 5 6 6 7 8 3 3 3 3 3 3 5 6 6 7 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	James Cahill	Ratland Oglesby Seneca Marseilles Kangley Wilsman LaSalle Ottawa	350 3 440 3.6 320 3.6 320 3.6 320 3.6 6 320 3.6 6 186 5 20 4.8 20 4.8 50 4.6 45 20 4.8 35 5 5 20 4.8 35 5 5 20 4.8 32 5 5 20 4.8 32 5 5 20 4.8 32 5 5 20 4.8 32 5 5 20 4.8 32 5 5 20 4.8 32 5 5 20 4.8 32 5 5 20 4.8 32 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	22222777722 22222222222222222222222	Sh	St H.: St	M	81, 000 147, 210 143, 183 135, 902 88, 752 372, 433 389, 752 372, 433 389, 775 86, 166 5, 56, 686 1, 782 2, 500 1, 641 440 200 200 200 2102, 543 4, 146 4, 146 4, 146 200 200 200 210 210 210 210 210 210 210	118,444 111,796 70,608 178,768 213,895 98,308 30,690 59,499 55,686 1,564 2,000 485 834 3,194	24, 62:24, 73:34 24, 73:34 19, 144 115, 74:74 150, 82:82 16, 62:82 16, 62:82 16, 72:74 16, 72:82 16, 73:74 16, 72:74 16, 73:74 16, 74:74 16, 74:74
	Totals							1,975,939	1,435,699	540, 240

<sup>\*</sup> Mine run.

<sup>†</sup> Mine run consumed by the company.

Whole number of openings reported in 1898, 44.

Number of new mines or places opened during the year, 4,

Number of new mines exhausted or abandoned during the year, 6.

Whole number of openings reported for 1899, 42.

# LaSalle County, 1899—Concluded.

-		VALUE	s.	Ем	PLOY	ES.	ton	onth	ä	oyé				CC
	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-monthly is or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	
	\$1 30 30 128 128 128 128 128 128 128 128 128 128	\$0 35 39 39 39 39 39 39 39 39 39 39 39 39 39	150, 264 50, 432 264, 130 262, 1544 115, 591 66, 679 65, 688 6, 436 62, 436 63, 425 63, 648 63, 448 630 630 630 630 630 630 630 630 630 630	1500 2200 1141 1200 1150 1150 1150 1150 1150 1150 115	388 62 63 43 43 102 124 124 125 125 129 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18S 308 308 213 308 213 308 213 308 213 308 213 308 213 308 213 308 213 213 213 213 213 213 213 213 213 213	\$0 63 63 63 63 63 64 77 74 74 74 74 74 74 74 74 74 74 74 74	S.M. W	280 245 245 245 245 245 245 245 245 245 245	130, 592 115, 299 116, 793 75, 010 224, 055; 219, 099 108, 008 41, 228 60, 902 36, 071 1, 470 1, 675 401 401 401 400 462 278 150	\$0.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.0000	26 27 13 25 25 15 8 13 6 1		
			\$1,850,758		861	3,576				81,470,135		278	4	-
	\$1.101	\$0.4028					90 51 9							

#### Livingston County-First District-1899.

			DES	CRIPT	ion.		(	Эптьпт,	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.  Thickness of coal-feet and inches.	Geological No. of seam Shaft, slope or drift,	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8 9 10 11 12 13 14	Pontiac Coal Co	Fairbury. Streator Cornell Streator	464 2.8 200 5 180 5 165 5 7 4 6 40 4 35 4 6 60 4 10 33 4 6 150 3.6 60 4 8	2 Sh 55 77 77 Sl. 77 Sl. 77 Sl. 77 Sl.	S. H	M. B. M. B. M. B. M.	45, 915 7, 101 25, 849 11, 798 6, 168 7, 371 5, 240 800 393 1, 600 1, 560 1, 273 1, 300 1, 273 1, 300	30, 837 4, 007 17, 233 8, 600 5, 022 7, 371 3, 704 763 303 800 1, 360 900 900 900 900	15, 078 3, 094 8, 616 3, 198 1, 146 1, 716 37 90 200 200 160 373 400

<sup>\*</sup>Mine run consumed by the company.

Whole number of openings reported in 1898, 17.

Number of new mines or places opened during the year, 2.

Number of mines exhausted or abandoned during the year. 4.

Whole number of openings reported for 1899. 15.

# Will County—First District—1899.

				DE	SC1	RIPT	ION.		OUTPUT.			
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tous pro- duced.	Tons of lump coal.	Tons of other grades	
1 2 3	William Maltby Coöperative Coal Co Murphy, Keenan & Co	Braidwood	55	$\frac{3}{2.10}$	2 2	Sh 	St. H. St.	М.	27, 149 4, 000 1, 630	3,000 1,141	1,000 489	
	Totals								32,779	21,017	11,762	

Whole number of openings reported in 1898, 3.

Number of new places opened during the year, 1.

Number of mines exhausted or abandoned during the year, 1.

Whole number of openings reported for 1899, 3.

# $Livingston\ County,\ 1899- {\tt Concluded}.$

										31.6		v. :-	
		VALUE		Ex	(PLOY)	es.	ton	month	÷	during iployes Ip.		출章	Acci-
Number.	Average value of lump per ton at the mine	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employes.	Price paid per gross t band mining.	Paid monthly, semi moly or weekly.	Days of active operation.	Total wages paid during the year to all employed excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15	\$1 05 1 45 1 13 1 40 1 11 1 25 1 40 1 60 1 20 1 50 1 40 1 50 1 50 1 50 1 50	\$1 05 \$3 66 95 50 50 40 50 1 00 1 25 30	\$18, 211 8, 378 25, 160 15, 078 6, 147 9, 213 6, 044 1, 239 4, 000 1, 300 2, 104 1, 340 1, 817 1, 245 450	\$5 4 25 12 23 10 12 3 3 4 5 3 14	411 55 177 111 111 4 4 1 1 1 1 3 3 1 1 2 4	126 9 42 23 34 14 16 4 4 5 8 4 18 2	50 47 47 60	S-M. W. S-M. S-M. S-M. S-M. S-M. S-M. W. S-M. W. S-M. W. S-M. S-M. S-M. S-M. S-M. S-M. S-M. S-M	295 240 192 230 168 276 150 50 130 125 160 300 50 75	\$53, 253 5, 816 19, 593 10, 125 5, 293 7, 235 4, 000 610 300 700 1, 203 750 1, 100 1, 210 250	143 78 255 16 6 30 30	277331111111111111111111111111111111111	
	61.01	00 00 0	\$131,726	205	106	314	so 56.23		107	8111, 458	2,865	30	
	81 21	80 86.2					80 56.23		167				

# Will County, 1899—Concluded.

	VALUES.			Ем	PLOYE	s.		in the	i	ring		E E		NT S
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employes.	Price paid per gross t hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or m employed in or about mine.	Patal	Non-fatal.
1 2 3	\$1 50 2 00 1 75	\$1 10 50 50	\$36,614 6,500 2,241	54 15 6	18 4 3	72 19 9	\$0 68 1 00 68	S.M.	275 160 125	\$25, 236 3, 300 1, \$55				
			845, 355	75	25	100				\$33, 294		5		5
Ì	\$1 58.5	\$1 02.4					80 71.9		157					

# Recapitulation by Counties—

	2	di:	NE	s.			1	PRODUCTS			v	ALUES.
Counties.	Number of mines. Shipping mines. Mines in local trade. New mines.				Abandoned mines	Total tons produced.	Tons of lump coal.	Tons of other grades.	Tons shipped.	Tons consumed or wasted at the mines.	Average value per ton of lump at the mines	Average value of other grades per ton at the mines.
Grundy	22	9	13	4	2	1, 280, 332	1,057,796	222, 536	1, 200, 113	30,816	\$1.077	\$0.2575
Kankakee	2	1	1			129,018	79,907	49, 111	118,888	4,382	1.48	0.5577
LaSalle	42	19	3	4	6	1,975,939	1 435,699	540,240	1,606,742	53,675	1.13	0.4028
Livingston	15	7	8	2	4	117, 248	82,940	34, 308	52, 812	6,315	1.21	0.862
Will	3	1	2	1	1	32,779	21,017	11,762	21,049	2, 372	1.58.5	1.024
Totals	84	37	47	11	13	3,535,316	2,677,359	857, 957	2,999,604	97, 560		
Averages.											\$1.139	\$0.40.1

Whole number of openings reported in 1898, 86.

Number of new mines or places opened during the year, 11.

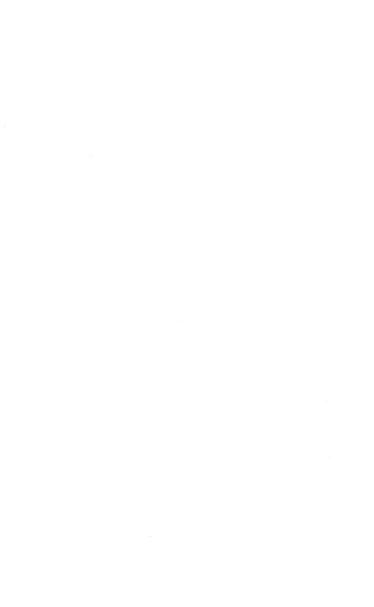
Number of mines exhausted or abandoned during the year, 13.

Whole number of openings reported for 1899, 84.

#### First District—1899.

	E	IPLOY	es.	days of	per	ring	powder	and	CASUA	LTIES	N	Íaci	HINES.
Aggregate value of total product	Number of miners.	Number of other cm- ployés.	Total employés.	Average number of daractive operation.	Average price paid per gross ton for band mining	Total wages paid during the year to all employe's excepting office help.	Number of kegs of poused.	Number of horses mules employed in about the mines.	Killed.	Injured.	umber of using mae	Number of machines in use.	Total tons cut by machines.
1, 196, 549	2,601	697	3, 298	215	\$0,6856	\$1, 119, 500	3,076	209	3	62			
145, 676	89	121	210	198	0.4803	100, 787	2,081	42		3	1	9	* 42,076
1,849,456	2,715	861	3, 576	182	0.543	1, 470, 138	18,980	278	1	74			
131,726	208	106	314	167	0.562	111,458	2,865	30		4			
45, 355	75	25	100	187	0.719	33, 294		8		5			
83, 368, 762	5,688	1,810	7, 498			\$2,835,177	27, 602	567	7	148	1	9	42,076
				188	₹0,59.6								

<sup>\*</sup> Price paid for machine mining, 37 cents per ton.



#### SECOND INSPECTION DISTRICT-1899.

Counties: Bureau, Henry, Marshall, Mercer, Peoria, Rock Island, Stark, Woodford.

THOMAS HUDSON, Inspector, Galva.

HON. DAVID ROSS, Secretary,

State Bureau of Labor Statistics, Springfield, Illinois:

SIR:—In compliance with section 12 of an act of the General Assembly, of the State of Illinois, defining the duties of State Inspectors of coal mines, and providing for the better preservation of the health and safety of persons employed in the coal mines of the State, I have the honor to herewith submit to you the sixteenth annual report of the coal mines located in the Second Inspection District, comprising the coal producing counties of Bureau, Henry, Marshall, Mercer, Peoria, Rock Island, Stark and Woodford, for the year ended June 30, 1899.

The tables accompanying this report contain the number of mines in the district, both local and those of the shipping class; the depth at which the coal is found in the various shafts and slopes; the thickness and the geological number of the seams; the number of miners and other employés above and below the ground, engaged in the coal mining industry of the district; the amount of powder consumed at each mine is given, with the number of days each mine has been in active operation during the year; the number of tons of coal produced is also given, with the selling price of the same, and the price paid per ton for mining; the number of fatal and non-fatal accidents that have taken place during the year are also given. In short, the tabular statements of this report contain about everything that can be of interest to the general reader, and valuable to the statistician.

The following table gives a summary of the number of mines, the number of miners and other employés, tons of coal produced, accidents and ratios for the year:

umber of shipping mines	
umber of mines in local trade	
otal number of mines	
amber of miners employed. amber of all other employès (not including boys).	4,
umber of all other employes (not including boys)	1,
umber of boys employed underground	
otal number of employés. Otal number of kegs of powder consumed.	6,0
otal number of kegs of powder consumed	53,
ns of lump coal produced	2,669,
ns of other grades of coal produced	656,
tal product, tons	3, 326,
ns of coal shipped	2,877,
ns of coal sold to local consumers	352,
ns of coal csnsumed, or wasted, at the mines	96,
erage value of lump coal per ton at the mine	81.
erage value of other grades per ton at the mine	80
gregate value of total product	\$3,475,
gregate value of total product. erage number of days of active operation.	18
mber of fatal accidents	
imber of non-fatal accidents	
tal number of accidents	
mber of employés to each fatal accident	
imber of employés to each non-fatal accident	1
ns of coal produced to each fatal accident	277,
ns of coal produced to each non-fatal accident	35,
ns of coal produced to each miner employed	
ons of coal produced to each emplopé (all classes)	

A table is also submitted giving the different notionalities and number of each employed at the various mines in the district. The table presented is approximately correct, absolute accuracy being well nigh an impossibility.

#### NATIONALITIES.

American			
English	<b></b>	 . <b></b> . <b></b>	 
Scotch		 	 
rish		 	 
Welsh			
derman			
rench			
talians		 	 
Austrians		 	 
Iungarians			
olanders		 	 
Belgians			
Russians		 	 
wedes		 	 
Danes and Norwegians		 	 
Sames and Morace lands		 	 

A comparative table of the coal production by counties, in the district, with the increase or decrease in each, for the years ending June 30, 1898 and 1899, all grades, is here presented:

County.	TOTAL OUTPU GRADES OF COA	Increase.	Decrease.	
	1898.	1899.		
Bureau Henry Marshall Mercer Peoria Rock Island Stark Woodford	286, 365 384, 345 640, 193	1,410,524 91,265 342,578 496 591 744,698 41,597 23,997 174,750	56, 213 112, 246 104, 505 2, 061	67, 784 5, 898
Total	2,551,110	3, 326, 000	848, 567	73, 67

Increase	
Net increase	774, 890

The counties of Bureau, Marshall, Mercer. Peoria, Stark and Woodford show a combined increase of 848,567 tons, and the counties of Henry and Rock Island a combined decrease of 73,677 tons, leaving a net increase for the district of 774,890 tons, or 33.1 per cent.

New Mines.—No new mines of the shipping class have been opened, nor have any of the same class been worked out or abandoned during the year. Many new local mines are opened up and others worked out during each year, but these changes are not thought to be of sufficient importance to note in this report.

Fires.—A fire broke out at the top works of the Camp Creek Coal Company's mine, operated by Hill Bros., at Cable, Mercer county, on the night of October 25, 1898, by which the engine room and boiler house were totally destroyed. From the fact that the workable coal in the mine was nearly exhausted the destroyed buildings have not been rebuilt.

Scales.—Requisitions have been made on the State Inspector to test the scales at three mines only during the year.

December 27, 1898, the scales at Reed City mine, operated by the Reed City Coal Co., located at Wolcott, Peoria county, were tested and found approximately correct. The scales weighed correctly up to 2,600 pounds, but at 3,000 pounds they were found to be 8 pounds light.

February 27, 1899, the scales at Siebold Reent's mine, located at Kramm Station, Peoria county, were tested and found correct.

May 16, 1899, the scales at shaft "B," operated by the Whitebreast Fuel Co., located at Ladd, Bureau county, were tested and found correct.

At the Reed City and Ladd mines 100 pounds in U. S. standard weights were used; at Reent's mine no standard weights were available. To overcome this difficulty, miners, who knew their personal weight exactly, were used. This method of using the miners as standard weights to test the scales on which their product is weighed, is, to say the least, unique, but it was the best that could be done under the circumstances. In all cases the weighman and check-weighman were present when the scales were being tested.

Improvements.—Many minor improvements are made at the various mines in the district each year, of which no note is taken, as it is not thought to be necessary to record such in a report of this kind.

The most costly and substantial improvements made during the year are those made by the Spring Valley Coal Co., at their mines located at Spring Valley, Bureau county. This company has, during the year, erected a Capell fan at No. 3 mine. All their three mines are now ventilated by Capell fans. The large volume of air created by fans of this type, combined with the large water gauge produced, goes far to solve the vexatious problem of ventilation in long-wall mines having long and contracted air courses, and in which a large number of men and animals are employed. The same company is also

erecting a steel tower at No. 2 mine; they expect to have it completed about October 1, 1899. In the meantime the coal from No. 2 mine is being hoisted through No. 4 shaft.

The Marquette Coal Co., of Marquette, Bureau county, has also made some very substantial improvements during the year. The main or hoisting shaft has been enlarged so that a larger mine car can be used, a new and more powerful winding engine and three new boilers are being set up, so that it is quite natural to expect a very respectable increase in the output of this mine in the very nearfuture. An overcast has also been erected below, for the purpose of increasing and obtaining a better distribution of the ventilating current.

The Devlin Coal Co., at Toluca, Marshall County, has put in double-decked cages during the year, and erected a new ventilating fan 20 feet in diameter to take the place of the smaller one in use heretofore.

New Mines in Prospective.—The Alden Coal Co., located at Wanlock, Mercer county, has just completed the sinking of a new shaft. It is located about two miles south of the present Alden mine. A good seam of coal 4 feet 3 inches thick was pierced at a depth of 140 feet, good machinery will be erected at once, and in all probability the mine will go into active operation about October 1, 1899.

The sinking of a new shaft is also contemplated by the Spring Valley Coal Co., at Spring Valley, Bureau county. The new shaft will be located about one mile north of the present No. 2 mine; the tower will be steel, and the mine will be equipped with all the modern improvements known to the ming engineers of the present day. The ever increasing demand for coal made on this company has made the sinking of this shaft a necessity.

Fatal Accidents—The following is a statement of fatal accidents that have taken place in the Second Inspection District during the year ending July 1, 1899:

July 12, 1898, Jonathan James, a miner, aged 63 years, widower, leaves two minor children, was killed almost instantly by being run over by a loaded pit car in shaft No. 1, operated by the Spring Valley Coal Company, at Spring Valley, Bureau county. Deceased, with two other miners, was riding on a loaded trip, contrary to the general orders of the mine manager, when he suddenly fell off the loaded car of rock on which he was riding, and a loaded car of coal passed over him, crushing him severely on the body and neck. He died before he could be removed from the mine.

July 13, 1898, Frank Samuelson, a miner, aged 16 years, single, was severely crushed by being caught under a fall of coal at the face of his working place in the Empire Coal company's mine, located at Gilchrist, Mercer county. Deceased was working with his father, drawing a pillar or "stump." He was in the act of shoveling loose coal from under some top coal that was hanging back, when about two tons fell off at a "water slip," striking the deceased, breaking his thigh and otherwise injuring him, from the effects of which he died before he could be removed from the mine.

August 23, 1898, William Noble, acting as trapper, aged 26 years, single, was killed by having his head crushed between the trap door and door post in the Alden Coal Company's mine at Wanlock, Mercer county. The driver

was up the entry, at the bottom of which the trap door was located, gathering a trip; he had left a loaded car standing at a switch and gone into the room to pull out another one; while the driver was gone, the loaded car that had been left started down the slight grade. Noble heard it coming, and supposing it to be the driver, opened the door just sufficient to put his head through, for the purpose, it is supposed, of telling the driver to hold up. The runaway came on, however, striking the slightly open door, and crushing the head of deceased between the door and door post. He died one and a half hours after the accident.

October 4, Is98, John Wilkes, a miner, age 50 years, single, was injured by a fall of roof at the face of his working room in L. Potter & Sons' local mine, located near Orehard Mines, Peoria county. Deceased had just set up his drilling machine and was in the act of drilling a hole, when a slab of slate fell from the roof, striking him on the back. It was not thought at first that he was seriously hurt, but later developments proved that his spine had been injured, and he died from the effects of the injury January 16th, 1899, one hundred and days after the accident.

October 6, 1898, Mathias Sherra, a miner, aged 42 years, single, was crushed by a fall of roof while in the act of brushing the roof of his working place in the Whitebreast Fuel Company's mine, located at Ladd, Bureau county. The piece of coal that fell on Sherra would weigh about 600 pounds, was cone shaped, about one foot thick at the center and perfectly smooth all around the cone except one side, which was formed by the natural break in the roof, which takes place every two or three feet in long-wall mines. This might be justly termed an accident, as, according to the evidence, there was nathing prior to the casualty to indicate the dangerous condition of the roof. Sherra died about one hour after being injured.

November 22, 1898, Andrew Coushman, a cager, aged 21 years, single, was killed instantly by being caught between the cage and side of the shaft, in shaft No. 1, operated by the Devlin Coal company, at Toluca, Marshall county. Deceased was employed as bottom cager. He had sent all the miners up, it being just after quitting time; himself and three company men were on the shaft bottom, ready to come up; deceased gave the proper signals and got the return signal back, the three company men got on the cage, deceased gave the final or starting bell and got on the cage also. When about 25 feet up the shaft he leaned too far out and was caught by a bunton in the northeast corner of the south cage-way, and drawn from the cage, falling back to the bottom of the shaft. When taken up he was dead, his jaw and neek being broken.

December 5, 1898, August Carlson, a miner, aged 36 year's, married, leaves a widow and one child, was killed instantly by being caught between the cage and side of the shaft in J. J. Flemming, slocal mine, at Kewance, Henry county. From the evidence given before the coroner's jury, an employé of the operator got on the eage at the top of the shaft to go below, it being about quitting time and nearly all of the fifteen miners were out of the mine, he called down the shaft, which is only 56 feet deep, and asked if all was clear below. Getting no response, he assumed that no one was at the bottom

of the shaft and told the engineer to lower him down, and the eage was started; when the person on the decending cage got to the bottom he found deceased lying in the opposite cage seat dead, his skull being crushed and a leg broken. It is assumed, for it must rest on assumption, that the deceased, on reaching the bottom of the shaft, found the cage just moving away, and thinking he had time enough to get on, the cages run very slowly, made the attempt, and was caught between the bottom of the cage and door-heads, and drawn up a short distance to a wider part, falling from thence to the bottom of the shaft, as the person on the decending cage testified that he heard something fall to the bottom when he was a short distance down.

January 2, 1899, Joseph Converso, a miner, aged 43 years, married, family supposed to be in Italy, was severely crushed about the head and body by being run over by a mule and two loaded pit cars in shaft No. 1, operated by the Devlin Coal Company, at Toluca, Marshall county. Deceased, in company with two other miners, were coming from the working face to the shaft, a driver with two loaded pit cars was coming down the entry behind them, the driver whistled for them to get off the track. Two of them did so, stepping to one side to let the cars pass. Deceased kept on, however, expecting, it is thought, to reach an opening to another entry a short distance ahead of him, when his light suddenly went out, he turned around in front of the mule and threw up his hands; the mule became frightened and jumped forward, knocking deceased down and dragging the two loaded pit cars over him. He died from his injuries 30 hours after the accident.

January 14, 1899, John O'Shaughnessy, a miner, aged 42 years, single, was severly crushed about the head and body by being struck with coal flying from a shot in Kingston mine, operated by Newsam Bros. at Kingston, Peoria county. Deceased was working in a room, which was driven in about 35 feet from the entry, his partner had gone home and left him to fire three shots at quitting time; he had fired two shots and went back to light a third, and did so, but before he could get back to a safe place on the entry, the blast went off and coal flying therefrom struck deceased, causing the injuries from which he died about one hour after the accident.

February 6, 1899, Abel Andreas, a miner, aged 20 years, single, was fatally burned by exploding a keg of powder in Collier's Coöperative Coal Mine at at Bartonville, Peoria county. Deceased, in opening a new keg of powder at the mouth of his room in the above mine, struck the top of the keg a heavy blow with a pick; the pick struck the edge or chime of the keg, and glancing down, a spark was generated, exploding the powder with above results. Deceased was so severely burned that he died February 9, three days after the accident.

March 2, 1899, Joseph Dailey, a miner, aged 60 years, single, was killed instantly by being struck with coal flying from a premature blast in Sholl Bros., No. 3 mine, located near Bartonville, Peoria county. Deceased was in the act of lighting a shot, blasting off the solid; the miner in the adjoining room was sitting in the cross-cut not more than twenty feet from Dailey, for the purpose of showing, or lighting him to a place of safety. The deeeased

lighted the squib and had scarcely turned around when the blast exploded, and the coal flying from the blast struck deceased, crushing his head and body, killing him instantly.

April 24, 1899, Andrew Ketchmark, a miner, aged 47 years, leaves a widow and nine children, was killed instantly by being caught under a heavy fall of roof, at the face of his working room in the Minonk Coal Company's mine, located at Minonk, Woodford county. Deceased had fired a blast in the brushing Saturday evening previous. The powder had struck a "smooth", and spread along the face, on the right hand side of the room; when he came to work on Monday morning he neglected to seenre properly the powder shaken roof, there was only one propunder it; shortly after he commenced work the weight of the roof seemed to have swung the prop, and the mass fell, crushing deceased under it.

Following are the tables of fatal and non-fatal accidents, their causes and the nature of the injuries sustained; also, the regular county schedules of the second district.

Respectfully submitted,

THOMAS HUDSON,
State Inspector of Mines, Second District.

GALVA, ILL.

# Fatal Casualities—Second District, 1899.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
Aug. 23 Oct. 4 Oct. 6 Nov. 22	Jonathan James Frank Samuelson William Noble John Wilkes Mathias Sherra Andrew Coushman August Carlson	26 50 47 21	Trapper Miner	Wanlock Orch. Mines Ladd Toluca			::	1 1 1		Falling of roof Ascending cage
Jan. 14 Feb. 6 Mar. 2	Joseph Converso John O'Shaughnessy. Abel Andreas Joseph Dailey Andrew Ketchmark Totals	$\frac{12}{20}$ $\frac{60}{47}$	::	Kingston Bartonville. Minonk	1	i		1 1	10	Pit cars Flying coal Powder explosion Flying coal. Falling roof

Total fatal casualities, 12,

# Recapitulation of Fatal Casualities—Second District, 1899.

Residence.	No.	Occupation.	No.	Nature of Casuality	No.	Colliery.	No
Bartonville Gilchrist Kewanwee Kingston Ladd Minonk Orch. Mines. Spr'g Valley. Toluca Wanlock	1 1 1	Cager Miners Trapper	1 10 1	Coal flying	2 2 2 1 1 1 3	Alden Coal Co Chicago Minonk C. C. Colliers Coöperative Devlin Coal Co. Empire Coal Co. J. J. Fleming Newsam Bros. Potter & Sons. Scholl Bros. Spr g Valley Coal Co. Whitebreast Fuel Co.	
Totals	12		12		12		1

# Non-Fatal Casualities - Second District, 1899.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent.	Character of Injury.	Time lost—days.
Aug. 1	Michael Smith. Peter Rica. Mike Latz F. Feranomen. Ed. Selburg. Adam Bulkofskie Elmer Japper. Lars Hansen. John Raisbeek. Andrew Hagman. William McGary. Henry Crone. J. A. Hoard. Wm. Townsley. H. Hanceloski. H. Hanceloski. H. Hanceloski. J. Mandeloski. J. Mandeloski. Joseph Arnold Joseph Feraro. John Simpson. John Richards. John Simpson. John Richards. Van Burdett. Paulter. Raipt Colve. Raipt Colve. Co. Weissenb'rge. John Rushkuski. J. Elline. Val. Beauhart. Wallace Hoadley. Wm. Essely. John Liddle. James Hooks. J. Helsomine. Johne Gelsomine. Johne Gelsomine.	37 481 38 622 77 39 60 32 17 18 36 32 45 35 30 30 17 50 27 14 38 26 23 30 51 51 51 51 51 51 51 51 51 51 51 51 51	Toluca  Kingston  Wolcott  Spr'g Valley  Valley  Valley  Wolcott  Spr'g Valley  Wolcott  Sherrard  Minonk  Sorrard  Minonk  Spr'g Valley  Wolcott  Sherrard  Minonk  Toluca  Spr'g Valley  Wolcott  Sherrard  Minonk  Toluca  Ladd  Toluca  Ladd  Toluca  Ladd  Toluca  Ladd  Minonk  Toluca  Ladd  Spr'g Valley  Toluca  Ladd  Minonk  Toluca  Spr'g Valley  Toluca  Spr'g Valley  Toluca  Ladd	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11	3 1 1 6 1 1 	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Foot bruised Ankle sprained Ankle bruised Ankle bruised Ankle bruised Ankle bruised Head tornised Head tornised Head tornised Head tornised Eye destroyed Ankle bruised Eye destroyed Ankle bruised Collar bone broken Ankle bruised Head bruised Head bruised Leg broken Leg broken Leg broken Leg broken Leg broken Leg broken Head bruised Leg broken Shoulder bruised Leg broken Head bruised Leg broken Head bruised Head crushed Head crushed Head crushed Head crushed Head crushed Head crushed Hod bruised Hod b	95 20 24 12 60 120 60 35 60 50 30
1899. Jan. 4 9 10 13 15 16	Joseph Brocitus. Al. Telerir Wm. Bruteavage. Martin Blum Thos. McCall D. R. Evans. Joseph Reodo	35 45 40 39 43 38 30	Spr'g Valley Toluca Minonk Spr'g Valley Ladd Ladd Marquette	1 1 1 	1  1 1	3 6	5  4 7 	Leg brnised Finger crushed Foot bruised Ankle crushed Finger cut off Hand crushed Jaw broken	25 23 30 60 50 60 30

# Non-Falal Casualties—Second District—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent.	Character of Injury.	Time lost
an, 21 Jo	hn Liski	10	Minonk	,		1	5	Rody honized	
28 C)	iarles Stank	32	Spr'g Valley	i		4	5	Body bruised Leg broken	
eb. 6.Jo	hn Coughlin	. 24	Minonk	1		1	2	Hand ent	
·· SJo	seph Minnett.	. 43	Spr'g Valley		1			Ankle bruised	
HFr	ed. Capitani	. 30	Ladd		1			Leg broken	
	hn Gough	37	Ladd		1			Arm broken	
17 Jo	hn Rogatti	. 27	Elmwood		1		;	Hands and neck burnedArm broken Leg broken	
99 62	eorge Tackes	39	Portonvill.	1		3	4	Arm broken	
21 W	m Knanne	15	Ladd			-16	3	Leg crushed (amputated)	
98 (46	orga Stoomna	133.1	Spr o Voller		- 1			Foot hanismi	
lar. 3 He	n'y Kolmorga	n 44	Sherrard	1		3	4	Leg broken. Leg bruised	
9 Jo	hn Crane	23	Spr g Valley	1		1	2	Leg bruised	
				- 4			- 1	Dack of discussions.	
	ios. Barrowina	n 20			1			Foot bruised	
14 A1	ex. Maiovien	16	Komonoo		1		٠.٠٠	Body bruised. Body bruised. Body severely injured.	
21 10	hn Rowatt	- 23	Spr'g Valley		1	*	3	Rody severaly injured	
	Deol	40	Toluca						
· 25 Ba	ırt. Biami	129	Spr'g Valley	1		1	2	Body bruisedLeg bruised	
. 90 T	Androws	10	Tolmon	1		5	6	Leg bruised	
29 A1	id'w Hamilton	16	Spr'g Valley		1	'		Ankle broken	
31,50	seph Miller	. 30	Marquette	1		2	3	Arm cut	
rbin g Yo	hn Gribbin	34	Wenona	, 1	٠	1	2	Leg broken	
** 6 Ob	Dattisteno	60	Tomes		1			Body bruised	
11 Pa	ter Peach	139	opr g vaney		1			Ankle broken. Arm eut Leg broken. Body brnised. Hand bruised. Thumb crushed.	
· 18 W	m. McMullen. orge Winchel	33	Flmwood	1				Thigh bruised	
19 Ge	orge Winchel	26	Emigood:	i			1.	Thigh ent.	
19 Fr	ank Shumulsi	(1 35	Sprg Valley		- 1			Body bruised	
					. 1				
20 011	ike Levloski,	25				2	3	Leg broken	
lay 5 Ju	lius Fancour seph Erbland.	28	Minonb	1		1	2	Shoulder bruised Head cut	
9.10	seph McKay	99	Wanlock	1		3	1	Back severely injured	
** 12 Er	nil Lebeau	29	Spr'g Valley	i		0	ì	Knee bruised	
'' 16 Ri	ch'd Albertson	1. 24	Sherrard		1			Toe crushed	
· · 20 E.	T. Trego	. 36	**		1			Leg bruised	
20 Th	ios. Lancaster	. 34	Pekin	1		3	- 1	Back bruised	
24 CF	nas. Vickery	- 18	Seatonville.		1			Leg broken	
25 J.	Franklin	. 50	Toluca	1		7	- 5	Ankle sprained	
· 97 H	. Newburn	20	Maranatta	1 1				Hand cutFinger crushed	
	m. Dunaway, .					6		Collar bone broken	
une 7 Ja	s. Gerard	32	Spr'g Valley			3		Arms bruised	
20.CE	ris. Carson	. 30	Minonk	1		3	4	Collar bone broken	
· 26 J.	Pirlilas	32	Spr'g Valley			3	4	Finger cut off	
	Totals			48	45	134	182		
						101	*0=		

*	Stil	1 .	lion.	N	$1 \wedge A$	

Total men injured	93
Not recovered June 30, 1899	10
Number recovered	53
Total time lost	3,661 days.
Average time lost per man recovered	44.1

#### Recapitulation of Non-Fatal Casualties—Second District, 1899.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Bartonville Cable Cable Carbon Cliff Coal Valley Elmwood Gilchrist Kewance Kingston Ladd Marquette Minonk Pekin Pottstown Roanoke Spring Valley Seatonville Sheffield Sherrard Sparland Toluca Wanlock Wenona	1 1 1 1 1 1 1 1 1 1 1 2 2 3 3 1 1 1 1 1	Cagers Carpenters Drivers Laborers Machine men. Miners Spraggers. Supt., outside Timbermen. Trackmen. Trip riders	1 1 10 3 1 66 2 1 5 1 2	Fire-damp	1 1 1 37 23 1 25 1 1	Alden Coal Co Beharelle & Co Chicago & Minonk Coal Co C. W. & V. Coal Co. Coal Valley Mining Co. Devin Coal Co. Elmwood Coal Co. Empire Coal Co. Bates Bros. mine. Marquette Coal Co. Newsam Bros. mine Patterson's mine. Reed City Coal Co. Roanoke Mining Co. Sheffield Mining Co. Sheffield Mining Co. Silvis' mine. Spr'g Valley Coal Co. Wantling & Sons. Wenona Coal Co. Whitebreast Fuel Co Wolschlag's mine.	55 15 31 11 14 11 12 22 11 12 28 13
Totals	93		93		93		93

Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with averages and Pencentages—Second District, 1899.

NATURE OF INJURY.	Number.	Married.	Single.	Depend- ents.	Total days.	Average days.	Per cent of injuries.
Ankles broken Ankles injured Arms injured Backs injured Backs injured Bodies injured Bodies injured Collar bones broken Bye destroyed, Feet injured Fingers ut off Fingers injured Hands injured Hands injured Hands and neck burned Heads injured Hands injured Less cut off Knees injured Jaw broken Knees injured Legs broken Legs cut off Bright injured Legs broken Legs injured Legs injured To injured To injured To injured	17233395166341141122818842211	7 1 3 3 4 3 1 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 2 1 1 2 2 3 1 1 2 2 1 1 1 1 1 1 1 1	23 4 10 12 17 19 7 6 4 4 1 1 3 8 3 1 1 1 35 15 8 5 182	2111 90 62 80 2229 50 239 855 200 170 45 45 29 20 30 210 1,115 121 121 121 30 30	31,14 45 66 29,066 29 44 50,066 29 44 50,25 29 21,12 20 42,50 20 105 62 20,25 29,50 40 30,25 29,50 40 43,89	1.07 7.52 2.15 3.23 3.23 3.23 9.70 5.38 1.07 6.45 3.23 4.30 4.30 4.30 1.07 2.15 1.07 2.15 1.08 8.60 4.31 1.08 1.08



# $Bureau\ County{--}Second\ District{--}1899.$

				DES	CR	1PT	ion.		(	Эстрст.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
6 7 8 9 10 11 12 13 14 15 16 17 18	Whitebr'ast Fuel Co., "B". C., W. & V. Coal Co., No. 1 Marquette Coal Co. Sheffield Mining Co. A. J. Higby Y. E. Williamson John V. Duncan John Paul. Peter Duncan Wm. Smith & Son.	Ladd Seatonville Marquette Sheffield	345 342 481 465 410 302 25 80 22 40 40 147 150 200 148 15 20 64	3.6 3.6 3.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	2 2 2 2 2 2 2 6 6 6 6 6 6 6	Sh	S	M	331, 757 284, 892 252, 810 195, 904 188, 082 124, 629 18, 230 18, 230 540 460 2, 276 2, 234 1, 365 1, 992 1, 992 1, 991		13,700
	Totals								1,410,524	1, 154, 419	256, 105
	Averages										

Whole number of openings reported in 1898, 17.

Number of new mines or places opened during the year, 2.

Whole number of openings reported for 1899, 19.

# Bureau County, 1899—Concluded.

	VALUE	s.	En	IPLOY:	ES.	ton-	nut	=	during iployés ip.		and I	LCC ENT
Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross t hand mining.	Paid monthly, semi-month- ly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or number employed in or about the mine.	
\$1 25 1 25 1 25 1 103 1 35 1 75 1 65.5 1 65.5 1 75 1 60 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 75	\$0 40 40 40 39 20 41	\$363, 250 307, 683 273, 034 189, 541 164, 198 155, 371 31, 902 1, 240 1, 137 690 585 3, 983 3, 909 2, 184 1, 736 2, 988 2, 415 1, 371	490 454 433 302 300 237 40 3 4 2 5 5 4 4 4 4 4 4 4 4 3	141 149 112 100 92 151 11 1 1 2 1 1 1 1 1	631 603 545 402 392 388 53 4 66 66 66 65 55	63 63 87.5 75 75 87.5 87.5 87.5	S-M.  M. W. S-M.  W. W. S-M.	270 271 242 293 229 215 300 150 100 160 170 155 108 240 250 250 260 260 270 270 270 270 270 270 270 270 270 27	242, 798 212, 251 174, 682 156, 746	21 25	53 1 1 51 49 1 1 25 1 1 1 1 1 1 1 2 1 2 2 2 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1	
\$1 22.4	\$0.37	\$1,507,768	2,298	773	3,071	\$0 63.5		192	\$1, 22 <b>4,</b> 779	368	254 2	

# Henry County—Second District—1899.

3   Jas. H. Murray   552   4   6					DES	SCI	RIPT	ion.		(	OUTPUT.	
3   3   3   3   4   4   6   6   7   6   6   6   6   6   6   6	Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	or	tons pro-	of lump	of other
	$ \begin{array}{c} 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 31\\ 32\\ 32\\ 31\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32$	Jas. H. Murray McKane & Reed A. W. Murphy McKane & Reed A. W. Murphy Philin Henry Bernard Kirley J. J. Fleming Bates Bros. W. H. Lyle Mat Atkinson Samuel Garland Joseph Dixon H. Kempin Herman Henry Ralph Tood Gus T. Sod Gus T. Sod Gus T. Sod Gus T. Sod Joseph Pynle Joseph Pynle P. Malone & Son James Kay D. O. Loy James Waine Donald & Flynn Jeff Glenn Timothy Downing Stoddard & Summerson, Blossomburg. John Summerson, Blos Fred A. Kenady James Iryin M. Aldrich John Rochford	Kewanee  Atkinson  Briar Bluff  Coal Valley  Cambridge  Green River  Genesso	522 577 25 576 68 68 700 322 55 35 400 300 300 400 322 55 35 35 400 300 300 300 300 300 300 300 300 300	44644444444444444444444444444444444444	666666666666666666666666666666666666666	Sl. Sh. Sh. Sh. Sh. Sh. Sh. Sh. Sh. Sh. Sh	Ho. S. Hd. Ho. S. Hd. Ho. S. Hd.	B. M.	7, 785 6, 269 1, 153 6, 269 1, 153 1, 153 6, 100 4, 448 3, 330 2, 556 1, 782 1, 400 4, 1, 200 4, 1, 200 4,	7, 445 6, 009 1, 033 6, 280 4, 886 4, 886 4, 886 4, 888 8,	\$50 2600 100 2000 2000 150 56 520 350

Whole number of openings reported in 1898, 30.

Number of new mines or places opened during the year, 7.

Number of mines exhausted or abandoned during the year, 4.

Whole number of openings reported for 1899, 33.

# Henry County, 1899 -Concluded.

		VALUE	s.	Ex	1PLOY	ES.	l ton	onth-	'n.	ring		t the	A	CCI
Number.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employés.	Price paid per screened ton -hand mining.	Paid monthly, semi-month by or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal
1234567890123456789012345678	\$1 20 1 50 1 63 1 50 1 50 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 75	\$0 40 25 25 15 15 25 25 25 25 25 25 25 25 25 25 25 25 25	\$22,751 11,254 9,859 1,604 13,555 15,555 1,555 1,555 1,555 1,118 8-2 1,100 1,1510 8-2 1,100 1,1510 8-2 2,100	38 17 14 32 16 11 11 10 5 4 4 4 4 3 3 2 2 2 1 6 6 5 5 5 5 3 2 2 2 1 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	75 22 11 44 43 11 11 11 11 11 11 11 11 11	452 166 43 205 112 111 65 55 55 44 23 33 27 66 65 33 22 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	80 80 75 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 0	M. S-M. W. S-M.	275 300 300 130 100 175 253 250 220 250 260 170 150 150 150 120 170 150 170 170 170 170 170 170 170 170 170 17	6, 2000 6, 0000 1, 153 8, 510 7, 182 4, 760 3, 457 2, 100 1, 300 473 250 2, 200 2, 200 2, 200 2, 200		11 11 11 11 11 11 11 11 11 11 11 11 11	1	
8	1 25		11, 562	18	10	28	* 55	S-M.	175	7,750	415	5		
10 11 12 13	1 25 1 87.5 1 62.5 1 50 1 25	90	2,400 5,427 2,957 1,800 200 8135,284	7 8 4 3 1 	2 3 1 1  56	9 11 5 4 1 	* 55 1 12.5 87.5 75 75	W. M. W.	150 240 140 175 85	3,793 1,120 1,200 126 879,111	50 143 36 24 	1	::	
	<b>\$</b> 1 53	\$0 47					†\$0 91		177					

<sup>\*</sup> Gross weight.

<sup>†</sup> Per screened ton.

# Marshall County—Second District—1899.

				DES	SCF	RIPT	ion.		(	Эптьпт.	
Number.	Name of Operator.	Postoffice.	Depth of coal—feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8 9 10 11	Devlin Coal Co No. 1 Wenona Coal Co. Marquette Coal Co. Bennett Bros. Robert Ingram George Chrisman George Chersman Bernard Lanning James Medearis. William Horrocks William Bough Joseph Caley.  Totals.  Averages.	Wenona Sparland Chillocothe Sparland  Henry	555	2,10 2,6 3.8 3,10 3,10 3,10 4 3,10 3,10 3,10 3,10 3,10	2 7 7 7 7 7 7 7 7 7 6	Sh.	S.:	M. B M.	229, 705 93, 287 16, 601 1, 252 288 200 150 250 250 200 100	194, 332 70, 170 14, 879 940 288 280 150 250 250 200 100	23, 117 1, 722 312

Whole number of openings reported in 1898, 14.

Number of new mines or places opened during the year, 1.

Number of mines exhausted or abandoned during the year, 3.

Whole number of openings reported for 1899, 12.

# Marshall County, 1899—Concluded.

		VALUE	is.	E	IPLOY	es.	ton-	onth	ä	during ployés ip.		the	DE	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3 4 5 6 7 8 9 10 11 12	\$1 25 1 28 1 30 1 20 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25	\$0 40 46 43 50	\$257, 064 100, 451 20, 038 1, 284 360 250 187 156 525 312 250 125	346 140 35 3 2 1 1 1 2 1	87 50 10	433 190 45 3 2 1 1 1 2 1	\$0 63 63 63 75 75 75 75 75 75 75		303 257 295 300 180 120 100 100 150 100 50	204, 631 29, 416 15, 917 704	453 2 52 10 3 3 1 7 6 7	15		15 3 1
			\$380,808	534	147	681				\$250,668	544	62	2	19
	\$1.26	\$0.42					\$0.63		171					

#### Mercer County—Second District—1899.

				DE	SCI	RIPT	ion.		(	Эитрит,	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift,	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Coal Valley No. 1 Coal Val'y Min'g Co., No. 2 Camp Creek Coal Co. Lilliman Bros. B. B. Peterson M. A. Beers M. M. Boden M. Peter Docherty. William Penman W. P. Williams M. M. Martin M. Griffin Clay Mfg Co Peterson & Young. Henry Cameron George Morris  Totals	Cable Wanlock Gilchrist Preemption Laoc Griffin Violla Millersburg		4.5 3.6 4.6 4.6 4.4 4.6 2.6 2.6	1	D. Sh	S. Ho. Hd. St. H. Hd. Hd.	B	167, 089 84, 374 1, 670 1, 540 1, 294 125, 664 96, 630 3, 270 2, 450 2, 000 3, 242 2, 026 630 1, 000 496, 591	3, 242 2, 026 2, 960 590 1, 000 280	26, 590 510 43, 662 28, 260
	Averages								496, 591	ə43, 700	102, 82

Whole number of openings reported in 1898, 17. Number of new mines or places opened during the year, 2. Number of mines exhausted or abandoned during the year, 2. Whole number of openings reported for 1899, 17.

### Peoria County—Second District, 1899.

-				DES	CRI	PTIC	N.			Эитрит.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1 2 3 4 5 6 7 8 9 10 11	Newsam Bros., Hanna City	Piona	2	30 4	4 5 4 5 2 5 2 5 2 5 2 5	Sl. Sh. Sh. D. Sh.	S. S Ho	* B.	109, 438 41, 226 30, 708 76, 300 21, 081 56, 667 30, 172 25, 865 17, 580 7, 260 2, 620	72, 958 29, 484 21, 472 57, 200 22, 800 42, 936 21, 057 19, 325 17, 580 7, 260 2, 620	11,742 9,236

# Mercer County, 1899 -- Concluded.

		VALUE	s.		PLOY	ES.	ton	onth	ли.	l during employés help.		ut the	Acc DEN
	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employes.	Price paid per gross hand mining.	Paid monthly, semi monthly ly or weekly.	Days of active operation.	Total wages paid duthe year to all emple excepting office help.	Kegs of powder used.	Number of horses or mu- employed in or about mine.	Patal.
1000	\$01 50 1 50 1 20 1 50 1 50 1 50 1 1 10 1 10 1 10 1 00 1 25 1 25 1 25 1 50 1 50 1 50 1 50 1 10 1 10 1 10 1 1	\$0 87.5 1 00 50 50 50 50	217, 063 113, 268 1, 647 2, 310 1, 941 708 112, 033 83, 337 3, 270 2, 425 2, 532 4, 440 895 1, 000 400 400 895 1, 000 895 1, 000 400 895 1, 000 895 1, 000 805 1, 000 800 805 1, 000 805 1, 000 805 1, 000 805 1, 000 805 1, 000 805 1, 000 805 1, 000 805 1, 000 805 1, 000 800 800 805 805 805 805 805	125, 68 12 4 3 1 125, 90 5 5 4 6 6 4 4 6 3 3 2	103 92 6 1 1 1 39 73 2 1 1 1 1	228 160 18 5 4 1 164 163 7 6 5 7 5 7 7	55* 75 75 75 45* 45* 65	M	156 175 55 195 220 275 246 250 189 200 250 250 106 125 100	\$135, 489 69, 372 1, 500 1, 455 1, 262 78, 913 71, 359 1, 331 2, 664 697	2,216 80 65 60 15 6,255	25 14 31 1 1 29 30 30 1 1 1 1 1 1 1	1 1
ľ			\$558,839	466	324	790				\$364,012	20, 397	101	2
	\$1 31	\$0.71					\$0 47 7		189				

# Peoria County, 1899.—Continued.

		VALUES.		Ем	PLOYE	s.	ton-	nth	ë.	during aployés lp.		7 - DE	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-monthly by or weekly.	Days of active operation	Total wages paid during the year to all employed excepting office help.	Kegs of powder used.	Number of herses or mu- employed in or about mine. Fatal.	Non-fatal.
1 2	\$0 90 1 00	80 25 35	\$74,782 33,593	100 45	30 13	130 58	80 45 45	S.M.	$\frac{275}{206}$	869, 924 28, 608	2,864 1,557	6 1 4	1
3 4 5 6 7 8 9	1 00 85 85 75 85 80 95 1 00	35 30 30 30 20 20	24, 704 54, 350 19, 764 36, 321 19, 721 16, 768 16, 701 7, 260	32 63 27 38 25 30 18	10 13 11 11 10 9 7	42 76 38 49 35 39 25 12	45 45 45 45 45 45 45 69	.: М. S-M.	200 236 159 300 221 156 235 150	22, 203 41, 965 14, 836 36, 041 14, 400 14, 801 11, 950 5, 133	1, 409 3, 083 935 2, 870 1, 251 1, 000 700 418	5 1 5 4 5 4 1	····

<sup>\*</sup> Gross weight. † Average for 475,427 gross tons. Average for 21,164 screened tons, 74 cents per ton.

### Peoria County, 1899--Concluded.

				DES	CF	IPT.	ιοn.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
121331415151616161616161616161616161616161616	Martin & Lane Richard Cody John Birdois Dan Birdois Dan Birdois Jose & Rumpel Fred Martin Schneider & Emis Cook Bros James Lane John J. Sampe Gener Colip. Coal Co John J. Sampe College Colip. Coal Co Ball Coal Co Wolland Bros Joseph School & Sons White Coal Co Wolland Bros Ball Coal Co Geo. Keller & Sons Ed. Brown Lot Hurst Elmwood Coal Co Ree: City Coal Co Wantling & Son Harry Vicary James Sleith W. E. Foley German Coöp. Coal Co L. Potter & Son R. Shreifler A. Beharelle & Co D. B. Roberts Thos, Goodwin C. B. Kramm & Son Howarth & Taylor Bros Mike Cusaek Sjebold Reents Jefford Bros F. H. Cutler Robert Taylor & Sons W. G. Samders Charles Berry Martin Armentrout Joseph Crew Phillip Tully J. I. Aby John Jurdon W. H. Yoole W. M. Vaughan	Elmwood Wolcott Pottstown Mapleton  Kramn Kramn Kingston Princeville Monica Ouncan Chillicothe Brinnfeld Laura	1899 100 96 65 120 65 90 112 120 100 32 1600 700 35 30 30 30 30 30 30 30 30 30 30 30 30 30	41222222222222244444222486633366622222226666666666	B 5 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	D. h. D	Hdd	B	1, 820 1, 600 1, 464 1, 402 1, 254 1, 271 1, 200 1, 202 1, 203 1,	1, 600 1, 1404 1, 1402 1, 1214 1, 1274 1, 1200	729 456 540 250 4, 422 10, 099 2, 310 6, 000 3, 192 5, 000 3, 688 260
	Totals								744,698	599, 925	144,773

Whole number of openings reported in 1898, 61.

Number of new mines or places opened during the year, 6.

Number of mines exhausted or abandoned during the year, 8.

Whole number of openings reported for 1899, 59.

\*Both.

# Peoria County, 1899.—Concluded.

	VALUE	s.	Ем	PLOYE	s.	ton	onth	ii.	during aployés lp.		t the	AC	
Average value of lump	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	North fortes!
34 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5 30 00 00	\$1, 820 1, 600 1, 461 1, 402 1, 281 1, 291 1, 291 30, 088 3, 280	34443327222323255522355662221196645533222333322231195645533222333322231195645533222333322233332223333222333322233332223333	299 225 25 6 6 6 6 7 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	69 69 69 69 69 69 69 69 69 69 69 69 69 6	S-M. W. S-M. W. W. S-M. W.	182 120 150 70 57, 180 100 190	\$13,500 6,051 4,270 54,233 40,135 6,300 7,455 1,345 476 5,500 1,200 2,510 1,056	31293 1290 1200 1600 1600 1600 1600 1600 1600 160		1	

<sup>\*</sup> Average for gross tons; average price paid for 41,346 screened tons, 70 cents per ton: price paid for 64,718 tons cut by machine, 27 cents per ton.

#### Rock Island County—Second District—1899.

				DES	CF	RIPT	ON.			Output.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8 9 10 11 12 12 14 15 16 17 8 19 20 21 22	John J. Pryce, Old Mine, No. 1. Pryce, New Mine, No. 2. Black Diamond Coal Co. Black Diamond Coal Co. Black Diamond. James Sackville. W. E. Wynn & Co. Robert Summerson. John T. Patterson. Douglas Gregg. John Carlson. Jonathan Linsley. John Hynd. Jamieson & Allison Loding Bros E. G. Jamieson. Sharp Bryls S	Coal Valley Loding Carbon Cliff Milam Hamptom Muscatine, Ia.	40 25 50 80 85 30 30 50 40 67  53 48 48 56 70 40	4 4 3.6 3.6 4 3.6 4 3.6 3.6 4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	1 1111111111111111111111111111111111111	Sh. D. Sl. Sh. D. Sh.	S	B M M. B. M M	4, 970 4, 065 2, 580 1, 298 1, 1298 1, 290 520 6, 5020 6, 5020 1, 460 1, 120 1, 120 1, 156 2, 960 4, 500 4,	4, 065 2, 240 1, 298 1, 040 720 520 440 260	288 150 409 1,500

Whole number of openings reported in 1898, 20.

Number of new mines or places opened during the year, 6.

Number of mines exhausted or abandoned during the year, 3.

Whole number of openings reported for 1899, 23.

# Rock Island County, 1899—Concluded.

		VALUE			1PLOY	ES.	ton-	onth-	on.	rring loye's		or mules about the		CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross ton hand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine,	Fatal.	Non-fatal.
1	\$1 50		7, 455	13	3	16	\$0.75	w.	200	5, 400	200			
2	1 50		6,097	12	3	15	75		144	4,651	180			
3 4 5 6 7 8 9 10 11 12 13 14 11 15 16 17 18 19 22 19 22 22 22 23 23 24 24 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	1 50 1 50 1 50 1 50 1 50 1 50 1 50 1 50		3,530 1,947 1,560 1,080 660 390 240 9,493 3,862 1,804 7,698 729 4,230 1,800 1,800 1,730 1,800 1,730 1,800 1,800 1,730 1,800 1,	6 5 4 2 2 4 2 2 1 1 5 5 6 3 3 3 4 4 5 7 5 5 3 3 2 2 3	1 1 1 1 1 2 1 2 1 1 1 1 1 1 1		75 75 75 75 75 75 75 87.5 87.5 87.5 87.5	S.M W S.M	150 158 155 190 70 140 80 120 208 150 120 275 165 100 210 210 200 140 180 150	3,146 1,126 4,861 1,110 500	75 50 37 37 12 6 320 100 109 6 195 32 18 185 50	1 1 1 1 1 1 1		1
			\$59,032	125	24	149				\$20,824	1,707	16		
	81 49	\$0.48					\$0.79		151					

# $Stark\ County - Second\ District - 1899.$

Nu				DES	CF	IPT	ION.		OUTFIT.			
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	0.3	Geological No. of seam	Shaft, slope or drift	Steam, horse or hand power	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Ton of other grades	
2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	George R. Watson. James Higbie Higbie K tobinson. John Price. John Thurston Stephenson & Watson. Jesse Saville. John Scott Benjamin Smith William Rennick. French & Peterson. Charles Montooth William Jones Henry Storey. Henry Newton. J. M. Robinson John Catton Joseph Goode. John Leitch Bever Bros	Modena	73 455 700 266 655 660 400 500 1044 138 1177 60 60 45 130 30 82	4.6 4 4 4.6 4.6 4.6 4.8 5 5 4.3 4 4 5 5 5 5 5	666666666666664	Sh. Sl. Sh. Sh. Sh. Sh. Sh. Sh. Sh. Sh. Sh. Sh	Ho. Hd Ho. Hd Ho. Hd Ho.	**************************************	2, 922 2, 446 1, 534 460 320 240 1, 200 950 436 295 1, 814 80 80 80 2, 685 1, 272 1, 200 1, 100	2, 722 2, 446 1, 334 460 320 240 1, 000 950 436 295 1, 814 1, 800 880 2, 480 1, 558 1, 272 1, 200	200	
	Totals								23,997	23, 147	850	

<sup>\*</sup> Both.

Whole number of openings reported in 1898, 23.

Number of new mines opened during the year, 1.

Number of mines exhausted or abandoned during the year. 4.

Whole number of openings reported for 1899, 20.

# Stark County, 1899--Concluded.

	VALU	ES.	Es	IPLOY	ES.	-doi	ontl	- 1	during nyloyés lp.		발	A DE
Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross ton hand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid during the year to all emyloye- excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.
\$1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25	\$0.50	\$3,402 3,057 2,001 575 400 360 1,250 1,187 545 2,721 1,330 2,250 3,100 3,100 2,337 2,226 1,500 1,465	56531233433341533523	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 4 4 5 1 6 3 6 3 4	75 75 75 75 75 75 75 87.5 87.5 87.5 75 75 75 75 75 75 75 75	S.M	220 210 160 125 155 100 200 170 120 230 190 230 70 300 265 165 284	\$\frac{\$825}{327}	15 300 27 3 755 17 15 5 1200 66 77 25 3 3 15 30 80	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
\$1 36	80 50	831,905	67	15	82	80.78		185	\$1,696	606	17	

# $Woodford\ County-Second\ District-1899.$

				DES	СБ	IPT:	ion.		OUTPUT.					
Number.	Name of Operator.	Postoffice.	Depth of coal—feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades			
1 2	Chicago & Minonk Coal and Tile Works Roanke Mining Co	Minonk Roanake	552 480	2.8 2.6	2 2	Sh.	ş.	M.	101,000 73,750	60,480	13, 270			
	Totals Averages								174,750	140, 480	34,270			

Whole number of openings reported in 1998, 2. Whole number of openings reported for 1899, 2.

# Woodford County, 1899—Concluded.

		VALUES		Ем	PLOYI	es.	ton-	nth-	i i	during aployés lp.		the	Acci-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid du the year to all emple excepting office help.	Kegs of powder used.	Number of horses or memployed in or about mine.	Fatal. Non-fatal.
1 2	\$1 20 1 25	\$0 50 20	\$106,500 78,254	175 155	78 31	253 189	\$0 63 63	s-M.	265 212	\$99,600 63,727	50 7	25 11	1 8
	\$1 22	\$0 38 .	\$184,408	330	112	442	\$0 63		 238	\$163,327	57	36	1 10

### Recapitulation by Counties--

		M	INES					Products			V	ALUES.
Counties.	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines	Total tons produced.	Tons of lump coal.	Tons of other grades.	Tons shipped.	Tons consumed or wasted at the mines.	Average value per ton of lump at the mines	Average value of other grades per ton at the mines,
Bureau	19	7	12	2		1,410,524	1, 154, 419	256, 105	1, 324, 664	39,929	\$1 22.4	\$0 <b>37</b>
Henry	33	3	30	7	4	91, 265	87, 161	4,104	28, 473	3,412	1 53	47
Marshall	12	3	9	1	3	342,578	282,054	60,524	317,060	7,276	1 26	42
Mercer	17	5	12	2	2	496, 591	343, 766	152, 825	452,515	15, 623	1 31	71
Peoria	59	23	36	6	8	744,698	599, 925	144,773	606,047	18,099	94.5	30
Rock Island	23	2	21	6	3	41,597	38,679	2,918	2,633	1,165	1 49	48
Stark	20		20	1	4	23, 997	23, 147	850		860	1 36	50
Woodford	2	2				174, 750	140,480	34,270	145,750	9,900	1 22	38
Totals	185	_ 45	140			3,326,000	2,669,631	656, 369	2, 877, 142	96, 264		
Averages.		-			-						\$1 19.1	\$0 44

Whole number of openings reported in 1898, 184.

Number of new mines or places opened during the year, 25.

Number of mine s exhausted or abandoned during the year, 24.

Whole number of openings reported for 1899, 185.

#### Second District, 1899.

	Ex	 IPLOY	es.	s of	per		during aployés Ip.	rder	all g	('Ast')	LTIES	MAC	BD) (S.
Aggregate value of total product	Number of miners.	Number of other employées.	Total employés.	Average number of days of active operation.	Average price paid nor gross ton forhand mining		Total wages paid during the year to all employed excepting office help,	Number of kegs of powder used.	Number of horses mules employed in about the mines.	Killed.	Injured.	Number of mines using machines. Number of machines in use.	Total tons cut by muchines.
\$1,507,768	2,298	773	3, 071	192	\$0 63.5	81	, 22 <b>1</b> , 779	365	251	2	44		
135, 284	227	56	283	177	°0 91	b	79, 111	734	24	1	1		
388, 808	534	147	681	171	0 63	e	250, 668	514	62	2	19		
558, 539	466	324	790	189	†0 47.65	ď	361,042	20,397	101	2	4		
609, 929	573	260	1, 133	159	†0 45.6	е	401,010	29, 045	10.5	1	9	2 9	364, 718
59, 032	125	24	149	151	0.79	f	20, 824	1.707	16		2		
31, 905	67	15	82	185	0.78	Ŋ	1,696	ces	17				
154, 408	330	112	442	235	0 63		163, 327	57	39	1	10		
\$3,475,973	4,920	1.711	6,631			82.	565,457	58, 455	615	12	93	2 9	64, 715
				181.5	†80 57.7								

<sup>\*</sup> Screened tons; gross tons, 55 cents per ton.

<sup>†</sup> Gross tons.

<sup>¿</sup> Price paid for machine mining, 27 cents per ton.

a No report from \mines.

b No report from 12 mines.

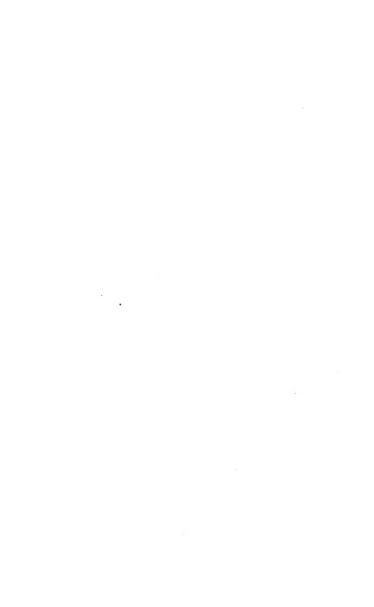
c No report from 5 mines.

d No report from 7 mines.

e No report from 36 mines.

f No report from 16 mines

g No report from 17 mines.



#### THIRD INSPECTION DISTRICT—1899.

Counties: Brown, Fulton, Hancock, Knox, McDonough, Schuyler, Warren.

JOHN W. GRAHAM, Inspector, Canton.

HON. DAVID ROSS, Secretary,

State Bureau of Labor Statistics, Springfield, Illinois.

SIR:—In compliance with section 12 of the mining law of the State of Illinois, I have the honor to submit the sixteenth annual report of the Third Inspection District for the year ended June 30, 1899.

The following is a summary of the report as taken from the statistical tables:

counties producing coal	
otal number of mines	2
Jumber of shipping mines	
umber of local mines	1
otal tons of coal produced	729.1
otal tons of lump	600.2
otal tons of other grades	128.8
otal tons shinned	561.6
otal tons consumed at mine	17.4
otal tons sold to local trade	149.9
verage value of lump at mine	\$1.0
verage value of other grades	0.4
ggregate value of total product	8696.5
umber of miners	1.4
umber of other employés, including boys	- 1
otal number of employés	1.7
otal number of employésverage number of days of active operation	146
umber of kegs of powder used	23, 1
verage price paid for hand mining, gross	80.4
verage price paid for hand mining screened.	0.8
umber of fatal accidents	0.0
umber of non-fatal accidents	
one of goal produced to each fatal agaident	182.2
one of goal produced to each rates according	42.8
ons of coal produced to each non-fatal accident umber of employés to each fatal accident	12,4
umber of employes to each non-fatal accident	1
umber of elliployes to each non-taxal accident	

This report shows a small increase in tonnage over last year; Fulton county has an increase of 37,687 tons; also, Brown and Warren counties have a slight

increase; the counties of Hancock, Knox, McDonough and Schuyler show a combined loss of 32,926 tons. The increase and decrease, by counties, is shown in the following table:

COUNTY.	Total Outp Grades—	UT, ALL fons.	Increase.	Decrease.	
	1898.	1899.			
Brown Pulton Haneock Knox McDonough Schuyler Warren	1,940 563,397 5,600 49,819 77,696 11,149 12,245	43,214	37,687	6, 605 26, 202 17	
Totals	721,846	729, 132	40, 212	32, 92	
Increase				40, 21	
Net increase				7,28	

New Mines.—The Jarvis Coal Co., of Astoria, Fulton county, has sunk a new mine at that place for shipping purposes. The coal is about 6 feet in thickness and of the No. 5 seam; the company now employ about 30 men, but will employ more as soon as the mine gets opened up.

J. M. Laws, of Cuba, Fulton county, is opening a new mine three miles east of Canton, on the T., P. & W. R. R., and will ship coal this fall. This is the No. 5 seam and the coal is about 4 feet 6 inches thick.

Howat Bros.. Canton, Fulton county, have sunk a new shaft at that place to supply the local trade.

The Quincy Coal Co., Colchester, McDonough county, has sunk a new shaft at that place, which is now in operation.

The Colchester Coal and Mining Co., Colchester, McDonough county, is also sinking a new shaft to replace the old one, which is worked out.

Abandoned Mines.—There are a great many small mines abandoned in this district every year, and new ones opened. The Carbon Coal Company's mine, St. David, Fulton county, is now abandoned, and the company has gone out of the coal business. The Norris Coal Co., Fulton county, has also abandoned its mine and gone out of the business. The mine at Bryant, Fulton county, still remains closed. It has not been worked for over four years. The company keeps the water pumped out and the mine otherwise in repair.

Labor Troubles.—There has been very little trouble between the miners and operators in this district during the year. The only trouble that caused a loss of time was at Breeds, in Fulton county. The miners working for P. W. Meehan, on the 5th of March, made a demand to be paid by gross weight. Mr. Meehan stated that he could not do so unless he could get a new lease from the owner of the land and build a new dump. The men still demanded gross weight; in consequence the mine was shut down and remained closed until July. Since then a new dump has been built and the mine opened up, and gross weight paid for mining. About 25 men were idle 90 days.

Mine Fires.—On the morning of August 20, 1898, the boiler house at the Whitebreast Fuel Company's mine, Dunfermline, Fulton county, was discovered to be on fire. With hard fighting the fire was confined to the boiler room, which was entirely destroyed, together with the boiler fittings. A new boiler room has been built of fire proof material.

Improvements.—The Farmington Coal Company, Farmington, Fulton county, has put in an electric plant at its mine to run two mining machines, also to light up their shaft bottom and entry roads. The company also put in two new boilers to run their electric plant. The machines in use at their mine are the Link-belt chain-cutter, and appear to give good satisfaction.

Accidents.—The following is a detailed account of the fatal accidents that have taken place in this district during the year:

August 8, 1898, John DeBow, miner, aged 34 years, married, leaves a widow, was found dead in C. P. Wager's mine, three miles west of Etherley, Knox county, on the morning of the above date. Andrew DeBow, a brother, and the deceased worked together in the mine. The deceased went to work in the morning and was followed by his brother about thirty minutes afterwards. When the brother went to the mine he could not find the deceased, and after looking for some time, returned to the house and got more help to took for him. After searching for some time they discovered an opening into an old mine that had been closed up because it was on fire. He was found in this mine dead. Apparently he had opened up this old mine to see if the fire was out, and had gone in and was smothered by the gas before he could get out. This mine had been closed since last April.

September 15, 1898, George Wynn, a miner, aged 46 years, married, leaves a widow and five children. While working in the Sunday Creek Coal Company's mine, Middle Grove, was injured by a fall of slate, from the effects of which he died in about two hours. The deceased, with his son, went to work at the usual time, 7 o'clock a. m. There was about 6 inches of draw slate in his room that he wanted to take down, but wanted to load his car before taking it down. The mine manager had told him to take it down the day before but he had not done so. This morning David McKinley, a miner, who worked in the next place, was there and wanted him to take the slate down, but he said he would load his car first. McKinley went to his own room and in a short time heard the deceased's son call out. On going to see what was the trouble, he found Wynn under the slate, which had fallen on him. He was taken out as soon as possible and was found to be hurt internally, from the effects of which he died about two hours afterward.

September 20, 1898, John Flanagan, a miner, aged 55 years, married, leaves a widow and three children, was fatally injured by flying coal from a shot in the Norris Coal Company's mine. Norris, Fulton county, from the effects of which he died in one and a half hours after the accident. The deceased was working with his son in a room in the northwest entry. They had two shots to fire at noon. The son went down the roadway, when the father lighted one of the shots and followed him; when the shot went off, deceased returned and lighted the other one. His son, who was near, says that just as soon as the other shot was lighted it went off, the flying coal crushing his head.

February 8, 1899, John Crawford. a miner, aged 24 years, single, was killed while working in W. Sherwood's mine, two miles east from Marietta, Fulton county. In the forenoon W. Sherwood, John Crawford and Richard Snyder were all working together in a room close to the mouth of the mine. The room was worked in about 25 feet, and was about 16 feet wide. There were three props in the room, but the roof being soft near the crop of the coal, these props were not sufficient to hold it up and the roof fell on all of them, pinning the three men fast in a short time. One of the miners outside hearing their cries, brought assistance, but it was about two hours before they were all gotten out. Crawford was the last to be brought out and was found to be dead; the other two men were not seriously injured. When I visited the mine and made an examination I considered it unsafe and had it closed down, and it has remained closed to the present time.

Following are the tables of fatal and non-fatal accidents, their causes and the nature of the injuries sustained, also the county schedules of the district.

Respectfully submitted,

JOHN W. GRAHAM,

Canton.

State Inspector of Mines, Third District.

#### Fatal Casualties—Third District, 1899.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependents.	Cause of Accident.
1898 Aug. 8 Sept 15 20 Feb. 8	John DeBow George Wynn John Flannagan John Crawford Totals	34 46 55 24	Miner.	Etherley Middle Gr'v Norris Marietta	1 1 1	1 1 1 	-	-	1 6 4 	White damp. Falling roof. Flying coal. Falling roof.

# $Recapitulation\ of\ Fatal\ Casualties -- Third\ District,\ 1899.$

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Etherley Marietta Middle Grove. Norris	1 1	Miner	4	Falling roofFalling slateFlying coalWhite damp	1	Norris Coal Co Sherwood, William Sunday Creek Coal Co Wagers, C. P.	1
Totals	4		4		4		4

# Non-Fatal Casualties—Third District, 1899.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of Injury.	Time lost-days.
Aug. 9 Oct. 5 29 Noy. 3 Dec. 1 4 29 Jan. 13 24 Feb. 15 Mar. 9 Anr. 20	Rugno Stiglich. Scott Vaughn Frank Deshane. Ivan Bollimger. Joseph Horr. W. F. Cadle. Win. Peters. John Chalboren. Win. Kesnert. John Hoderson. Larrie Anderson. D. Sherbine. Noah Gragg. William Lewis. H. N. Smith. J. E. Bemley. Totals	38 22 26 65 40 35 65 47 42 16 43 30 57 23 32	Middle Grove. Dunfermline. Astoria Dunfermline. Frederick Dunfermline. Colchester Middle Grove. Colchester Dunfermline.	1 1 1 1 1 1 	1 1 1 1 1	5 5 4 4	5 1 6 1 6 1 6 5 5	Foot injured. Leg broken. Wrist broken. Leg broken. Hand crushed Finger cut Back injured. Back injured. Body injured. Back hurt. Lef broken. Lef broken. Hand injured. Hand injured. Hand injured. Hand injured. Hot injured.	100 110 36 125 87 23 100 48 59 140 24 90 24 39 75 13 15

### Recapitulation of Non-Fatal Casualties—Third District, 1899.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Astoria Bryant Colchester Dunfermline, Frederick Middle Grove.	1 3 8	Cager. Drivers. Miners. Trimmer.	11	Falling coal Falling rock. Flying coal. Pit-cars. Powder explosion. Railroad car.	4 2 7	Astoria Coal Co Colchester Coal Co Curry, A. L Quincy Coal Co Sunday Creek Coal Co Whitebreast Coal Co	1 1 2
Totals	17		17		17		17

Table Showing the Nature of Injuries, Number of Persons Injured, Dependents. Time Lost, with Averages and Percentages.—Third District.

Nature of Injuries.	Number.	Married.	Single.	ependents.	Time Total days.	Average days.	er cent of injuries.
Backs injured.  Bodies injured. Pace injured. Feet injured. Feet injured. Feet injured. Lacks injured. Lers broken. Shoulder injured. Wrist injured. Wrist injured.	3 2 1 2 1 3 3 1 1	3 2 1 1 2 1 1	 2 1 2	12 5 6 6 3 5 5	264 74 48 113 23 201 325 24 36	88 37 48 57 23 67 108 24 36	17.6 11.8 5.9 11.8 5.9 17.6 17.6 5.9
Totals, averages and percentages	17	11	6	42	1,108	65	100.00



# Brown County—Third District, 1899.

				DE	SCI	ript	ion.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8 9 10 11 12 13 14	H. Cronicle. Douglas McClure. Job Adams. Otis Staffer Huff & Hendricks George Dunlop. George Ashbacker Samuel Bailey. Charles Fredin Shinnefield & Price Thomas Brady. Barney Ridder. Thos. Redmond & Bro. Julius Gross. John Gross.  Totals.  Averages	Mt. Sterling Damon Clayton	30 30 30 30 30 30 30 30 30 30 30 30	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	222222222222222	D	Hd	M	280 220 190 190 160 200 70 200 120 160 180 170 170 120 200	280 220 190 190 160 200 70 200 120 160 180 170 170 120 200	

Whole number of openings reported in 1898, 16.

Number of mines or places opened during the year, 5

Number of mines exhausted or abandoned during the year, 6.

Whole number of openings reported for 1899, 15.

# Brown County, 1899.—Continued.

		VALUE	ES.	Ex	IPLOY	ES.	ton	onth	'n.	oyés		t the	Ac DEN	
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	\$1 50 1 50 1 50 1 50 1 50 1 50 1 50 1 50		\$420 330 285 285 240 300 105 300 180 270 255 255 180 300 	22 22 22 22 22 22 23 30		22 22 22 23 31 12 22 22 22 22 22 22 23	\$1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	W	150 110 100 100 85 80 75 100 60 80 90 85 85 60 100	\$280 220 190 160 215 70 220 120 160 180 170 170 120 200				
	<b>\$1</b> 50						\$1 00		91					

# Fulton County—Third District—1899.

				DES	CR	IPT	ON.		(	Эптрит,	
Number.	Name of Operator.	Postoffice.	Depth of coal—feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
789910011113331111331111331111331111331111331111	Jarvis Coal & M Co Sunday Creek Coal Co. Newsam Bros., lessee. Farmington Coal Co. Firdley Coal & Coke Co. J. M. Laws. Tayler & Peck, No. 1. Taylor & Peck, No. 2. P. W. Mechan. Cline & Shaw Coal Co. Canton Coal Co. Lowry & Kinnowman. Richard Blagden. Turner Bros. Isaac Bath. Albert Eyman. Thomas Fox. Joseph Gensell. W. H. Chapman. P. McLinden. George Hollinsworth. Lewis Memmon E. E. Peck. Wm. Hughes Charles Sanlon Mynthy Bros. Charles Minnet Wager Bros. Oliver Harris. Robert Ribley John Stevens. John Hamilton. Timothy Yemm.	Astoria Middle Grove. Farmington Cuba Breeds. Flatt Canton Norris. Lewistown Lewistown Lewistown Canton.  Cuba  Astoria  Breeds. St. David Norris. Lewistown Ayon	900 600 770 750 800 800 800 800 800 800 800 800 800 8	4444444523222225444444 444444444522545555554455522	555555555555555557122222155555555555555	Sh	Hd	B	147, 918 79, 743 74, 743 74, 743 74, 743 74, 743 74, 743 75, 743 75, 743 75, 743 75, 743 75, 743 75, 743 75, 743 75, 743 75, 744 75, 744 75, 744 75, 745 75, 747 75, 7	650 4,000 14,000 14,000 2,400 2,400 2,500 250 3632 1,100 300 1,100	11, 56 6, 50 11, 15 4, 01 2, 00 70 2, 00

# Fulton County, 1899—Continued.

		VALUES.		Ем	PLOYE	s.	ton—	mth-	ij	lores.		or mules bout the	Act+ DENTS
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month- ly or weekly.	Days of active operation.	Total wages paid during the year to all emplores excepting office help.	Kegs of powder used.	Number of herses or mules employed in or about the mine.	Fatal.
12345678990123345667899012334566789901233456678991123345667891123345678911233456789112334567891123345678911233456789112334567891123345678911233456789112334567891100000000000000000000000000000000000	1 00 1 00 1 00 1 00 1 00 75 75 75 75 75 1 10 1 10 1 10 1 00 1 50 1 00 1 00 1 0	\$0.46 47 45 45 45 12 35 41 30 20 40 40 23 1.00	\$130, 515, 70, 091, 30, 091, 31, 31, 31, 31, 31, 31, 31, 31, 31, 3	1 1 2 2 4 4 1 2 2 1 1 1 1 2 2 2 2 2 2 2	100 314 123 117 111, 113 338, 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1128 3 8 7 7 6 6 6 8 8 2 3 5 6 8 1 5 3 1 6 6 6 7 2 1 2 1 2 1 4 4 4 4 5 5 1 3 2 5 5 2 5 5 1 2 1 1 1 1 2 2 2 4 4 2 2 2 2 4 2 1 1 1 2 2 4 4 2 2 2 2	\$0 45 45 45 45 45 45 45 45 45 45 45 45 45		208 1788 1894 1894 1894 1894 1894 1894 1994 1	\$160, \$15 53, 163 53, 163 54, 163 7, 1410 7, 1	22 4 4 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

#### Fulton County—Third District—1899.

				DES	CR	1PT	ION.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal—feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, borse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
52 53 54 55 56 57 58 59 70 71 72 73 74	Charles Maple Charles Hall Charles Hall J. W. Crouse Thomas Wilson, Jr. Isral Shawgo D. Lockhard Hartford Curlen Henry Floren David Nappin Soloman Shaffer.	Bluff City farmington Summan Marietta Duncan Mills.	300 400 600 600 400 400 400 400 400 400 4	2.4 5 5 2.6 2.6 2.6 2.6 2.6 4 6	2552222226	Dr.	H	M. B. M	480 390 200 255 400 288 329 240 80 2,400 400 200 300 240 400 601, 084	480 390 200 255 400 288 329 200 340 80 2,400 300 240 478,329	

Whole number of openings reported in 1898, 87.

Number of new mines opened during the year, 21.

Number of mines exhausted or abandoned during the year, 30.

Whole number of openings reported for 1899, 78.

Average price gaid per gross ton, 43.5 cents per ton. Price for machine mining, 27.5 per ton for 25, 471 tons.

### Fulton County, 1899—Concluded.

		VALUE	es.	Es	1PLOY	ES.	ton-	onth-	ü.	d during employes help.		ules t the		NTS
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product,	Average number of miners employed.	All other employes.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid duthe year to all emple excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
61 62 63 64 65 66 67 70 71 72 73 74 75 76	\$1 50 1 00 1 00 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25		\$720 5-55 200 250 350 400 250 300 100 3,000 550 275 375 375 375 375 375 375 375 375 375 3	44 33 11 12 22 22 22 16 62 23 32 22 22 22 22 22 22 22 22 22 22 22	319	4 3 1 1 2 2 2 2 2 2 2 1 7 7 7 7 2 2 2 2 2 2	\$1 00 1 00 60 60 1 00 1 0	S-M.	110 100 100 150 150 150 120 70 70 220 80 126 95 110 95 125	\$510 430 120 150 400 286 320 200 240 80 2,210 220 300 300 400	26	1		13
	\$1 006	\$0 403					so 783		145					

# $Hancock\ County{---Third\ District}{--- 1899}.$

				DES	SCI	RIPT	ion.			OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
34	Merideth Bros Wm. Courtney. M. F. Ray John Highland J. W. Marks		50 30 30 30 30	2.6	2 2		<b>Н</b> ф	м.	4, 338 400 280 240 240 5, 498	400 280 240 240	
	Averages										

Whole number of openings reported in 1898, 4.

Number of new mines or places opened during the year, 1.

Whole number of openings reported for 1899, 5.

# Hancock County. 1899 Concluded.

		VALUES.		Ем	PLOYE	s.	-15	nth	ź	ring			OT-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Fotal employés.	Price paid per gross t hand mining.	Paid monthly, semi-mont by or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or m employed in or abour mine, Fatal.	Non-fatal.
1 2 3 4 5	1 75 1 75		\$5,832 700 490 420 420	14 2 2 2 2 2		16 3 2 2 2 3	$\begin{array}{c} 80.94 \\ 1.00 \\ 1.00 \\ 1.00 \\ 1.00 \\ 1.00 \end{array}$	S.M. 	208 190 140 140 130	350 310		2 1 1 1	
			87, 862	22	4	26				85.740		6	
	\$1 43						\$0 55.3		162				

#### Knox County-Third District-1899.

				DES	SCF	HPT	ion.		(	OUTPUT,	
Number.	Name of Operator.	Postoflice.	Depth of coul-feet.	Thickness of coal- feet and inches.	Geological No. of scam	Shaft, slope or drift,	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
23 4 5 6 7 8 9 10 11 2 13 14 5 16 7 8 9 10 11 2 2 2 2 3 2 2 2 5 2 2 2 3 3 3 3 3 3 3 3	George W. Essex. Wm Woodward. Reed & Fendergast G. Reed & Fendergast G. George Clifford. James McGovern George Clifford. John Jacobson & Son Lewis Nordeen Taylor Bros Lundeen & Preist John Welsh John Welsh John Selson Z. F. Dudley Nelson & Anderson Bowman Bros Adonzo Emerick Wm. Raffle & Son K. Prootor Wm. Fish Eric Herkstrom N. A. Anderson John Dolan C. F. Wagher Aldgreen & Simons William C. F. Wagher L. Loopman Melvin Morse D. J. Foster T. Morse A. P. Boyer E. Peterson Doseph Thompson H. E. Banney H. E. Banney	Galesburg Soperville Galesburg Oneida Tenro Knoxville Yates City Farmington Elmwood Appleton Wataga Etherley E. Galesburg Middle Grove. Rapatee Etherley Abingdon	112 500 300 300 300 300 300 45 45 45 45 45 45 300 300 300 300 400 400 400 400 400 400	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 1 \\ 1 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\$	Sh	S. Ho	B B M. B	7, 900 3, 819 3, 819 1, 836 1, 837 1, 257 1, 257 1, 257 1, 267 1, 267 1, 400 1, 810 1, 810 2, 330 1, 350 2, 340 6, 600	1, 257 650 650 650 1, 350 1, 400 600 600 1, 350 230 340 400 600 100 600 120 300 600 120 300 600 600 600 600 600 600 600 600 60	200 200 354 354 354 354 354 354 354 354 354 354
	Totals								43, 214	40,840	2,37

Whole number of openings reported in 1898, 34.

Number of new mines or places opened during the year, 11.

Number of mines exhausted or abandoned during the year, 8.

Whole number of openings reported for 1899, 37.

# Knox County, 1899—Concluded.

		VALUES	š.	Ем	PLOYE	s.	1 to	unth	ä	oyé		t th	ENT
	Average value of timp per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per screened ton -hand mining.	Paid monthly, semi-month ly or weekly,	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	
8155578901233455678990123345667899012334566	1 25 1 25 1 25 1 25 1 00 1 00 1 12.5 1 12.5	81 00 1 00 1 00 1 00 1 00 1 00 1 00	\$3,659 4,712 4,073 4,073 1,1855 1,185	20 8 8 5 2 6 6 5 4 % 7 7 4 % 22 8 22 5 22 22 22 22 22 22 22 22 22 22 22 2	5 5 3 3 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 111 100 7 7 7 6 6 4 4 3 3 8 8 8 3 3 3 3 3 3 3 3 2 2 2 2 2 2 3 3 3 2 2 2 2 2 2 1 1 1 1	80 75 75 75 75 75 75 75 75 75 75 75 75 75	S.M. W. W. M. S.M.	190 200 180 174 140 175 200 160 170 220 225 221 150 50 140 145 230 50 100 110 150 170 170 170 170 170 170 170 170 170 17	\$5, 250 2, 708 2, 708 1, 637 1, 637 1, 637 1, 1, 233 2, 480 1, 1, 030 2, 480 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			1

## McDonough County—Third District, 1899.

ber.	Name of Operator.		# L		āl	12	1			
Number.		Postoffice.	Depth of coal—feet. Thickness of coal—	feet and inches.	Geological No. of seam Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grade:
23 4 5 6 6 7 8 9 9 00 11 12 13 14 14 15 16 17 18 5 9 9 9 14 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Dull Bros Wardell Bros John Berry W. H. Porter W. H. Porter W. H. Berry A. E. Wilson Curry Teel W. Stoneking Link Willey W. M. Stoneking Link Willey W. Baker Richard Jones Frank Envilok Frank Taylor Joseph Dodger Thomas Wilson S. Lamborn Witchell Bros Kirkbride & McIntire	Tennessee Macomb Industry Blandinville Doddsville Vermont.	56 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	202222222222222222222222222222222222222	S.I.: D.: Sl.	S	M.	16,500 15,340 2,480 16,340 2,480 2,480 2,480 2,480 2,480 2,400 4,000 750 2,000	18, 567 2, 230 150 150 150 150 150 150 150 150 150 15	
	Totols							51, 494	48, 371	3, 12

Whole number of openings reported in 1898, 50. Number of new mines or places opened during the year, 9. Number of mines exhausted or abandoned during the year, 9. Whole number of openings reported for 1899, 50.

# McDonough County, 1899.—Concluded.

		VALUE	s.		IPLOYE	ES.	ton	onth	á			E E	Acc DEN	TS
Number.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross ton hand mining.	Paid monthly, semi-monthly by or weekly.	Days of active operation.	Total wages paid during the year to all employe's excepting office help.	Kegs of powder used.	Number of horses or mules employed m or about the mine.	Fatal,	Non-fatal.
12345678901234567890123456789012345678901234567890	\$1 35 35 35 31 35 35 35 35 35 35 35 35 35 35 35 35 35	\$0.35 35 35 35	\$21, 175 18, 836 \$, 600 11, 125 630 600 600 1, 125 17, 125 17, 125 18, 126 18, 126 18, 126 18, 127 18,	5000012132132132141152141321542333212143443212121053211332133321233332124334321212105321133213332123333	9 9 4	5.00423331424215244	\$1 000   1 1 000		220 108 108 85 120 80 1100 1100 1100 100 100 100	\$18, 1677 17, 509 2, 738 2, 128 2, 128 2, 128 2, 129 2, 1400 400 400 400 420 420 420 420 420 420		1 1 1 1 1 1 1 1		
١.			\$68,95S	257	24	281				855, 475		11		
	\$1 40.3	\$0.35					\$1 00		127					

### Schuyler County—Third District—1899.

				DE	SCI	RIPT	ion.			OUTFIT.	
Name of (	)perator.	Postoffice.	Depth of coal-fect.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift	Steam, horse or hand power	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Ton of other grade
o Ruius Porter. 7 William Harr 8 A. L. Curry 9 Jacob Backof 0 John Cagle 1 R. White & S	wood. mings is	Ray	48 38 50 50 50 50 30 40	2.3 2.3 2.6 2.3 2.3	5 5	Sh. Dr.	н. на	В. М.  в.	2, 130 1, 680 1, 332 1, 200 1, 000 280 400 1, 100 800 460 750	1,680 1,332 1,200 1,000 280	
Avera									11, 102	11, 102	

Whole number of openings reported in 1898, 10.

Number of new mines or places opened during the year, 4.

Number of mines exhausted or abandoned during the year, 3.

Whole number of openings reported for 1899, 11.

# Schuyler County, 1899—Concluded..

		VALUES.		Ex	IPLOYI	ës.	ton	oth-	i	during aployés lp.		mules at the	A DE	TT-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employes.	Price paid per gross t hand mining.	Paid monthly, semi monthly or weekly.	Days of active operation	Total wages paid du the year to all emple excepting office help.	Kegs of powder used.	Number of horses or mu- employed in or about mine.	Fatal.	Non-fatal.
1 2 3 4 5 6 7 8 9 10 11	\$1 25 1 00 1 00 1 00 1 25 1 25 1 25 1 25 1 25 1 25 1 25		\$2,662 1,680 1,332 1,250 350 500 1,375 1,000 575 750	6 4 4 3 4 2 2 3 4 2 2 3 4 2 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77 55 44 55 22 23 34 42 4	\$0 75 75 75 75 1 00 1 00 1 00 1 00 1 00 1 00 75	S-M.  W.	220 200 234 190 184 140 175 280 200 195 175	\$1,650 1,380 1,100 980 1,060 325 475 1,100 880 500 565	1144 94 773 60	1 1	i	
			\$12,668	37	6	43				\$10,015	347	3	1	
	\$1.138						\$0.841		199					

### Warren County—Third District—1899.

				DES	SCE	(IPT	ON.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4 5 6 7 8 9 10 11 12 13 14	C. F. McCartney John Simcox Cook & Gilmore John Selkirk Murphy & Kedmond. J. G. Kidd. G. H. Little Bryner Bros Joseph Sympson Thomas Wearmouth Thomas Wearmouth Thomas Wearmouth Thomas Les Joseph Simpson H. H. Hopkins H. H. Hopkins R. Delaney Totals	Monmouth Roseville Youngstown . Swan Creek	70 60 40 55 55 30 30 30 30 30 30 30	2.3	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sl. Dr.	St. H. St. H. H.d	В.	4,500 1,800 1,600 1,200 1,500 440 200 500 80 320 140 100 600 200	1,500 440 200 500 80 320 140 100 900 600 200	100

Whole number of openings reported in 1898, 16.

Number of new mines or places opened during the year, 2.

Number of new mines exhausted or abandoned during the year, 3.

Whole number of openings reported in 1899, 15.

# Warren County, 1899—Concluded.

1		VALUES		Ex	IPLOY	es.	ton	onth	ä.	during uployés ip.		mules ut the		CI- NTS
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-monthly by or weekly.	Days of active operation.	Total wages paid during the year to all employed excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	\$1 25 1 25 1 25 1 75 1 75 2 00 2 00 2 00 2 00 2 00 2 00 2 00 2 0	80 75	\$5, 375 2, 250 1, 950 2, 100 2, 625 850 800 1, 000 160 640 280 200 1, 575 1, 050 350	77 44 55 22 31 12 11 53 22 47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 55 55 66 62 22 33 1 1 2 1 1 5 5 3 2 2	80 75 75 75 1 121-2 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 2	S-M.	260 210 180 210 230 200 120 180 160 160 110 200 180 190	\$3,500 1,450 1,280 1,600 1,800 550 250 625 100 400 175 125 750 250	300 150 150	1 1 1		1
	\$1 51.2	80 75					80 94.5		178				1	

#### Recapitulation by Counties—

		M	INES					Ркориста	š.		v	ALUES.
Counties.	Number of mines. Shipping mines.		Shipping mines. Mines in local trade. New mines.		Abandoned mines.	Total tons produced.	Tons of lump coal.	Tons of other grades.	Tons shipped.	Tons consumed or wasted at the mines.	Average value per ton of lump at the mines	Average value of other grades per ton at the mines.
Brown	15		15	5	6	2, 630	2,630				\$1 50	
Fulton	78	18	60	21	30	601,084	478, 329	122, 755	523, 256	14,957	1 00.6	\$0 40.3
Hancock	5	1	4	1		5,498	5, 498		4,338		1 43	
Knox	37		37	11	8	43, 214	40,840	2,374		860	1 20.9	92.3
McDonough	50	3	47	9	9	51,494	48, 371	3, 123	33, 120	1,200	1 40.3	35
Schuyler	11	1	10	4	3	11, 132	11, 132		950	180	1 13.8	
Warren	15		15	2	3	14,080	13,480	600		300	1 51.2	75
Totals	211		185		59	729, 132	600,280	128, 852	561,664	17, 497		
Averages											\$1 07.2	80 41.3

Whole number of openings reported in 1898, 217.

Number of new mines or places opened during the year, 53.

Number of mines exhausted or abandoned during the year. 59.

Whole number of openings reported for 1899, 211.

Third District-1899.

	Es	IPLOY	ES.	days of	per	ring	powder	and	Casua	LTIES		Mac	HINES.
Aggregate value of total product	miners.  other electrical particles	Number of kegs of poused.	Number of horses mules employed in about the mines.	Killed.	Injured.	Number of mines using machines.	Number of machines in use.	Total tons cut by machines.					
<b>\$</b> 3, 9 <b>4</b> 5	30		30	91	\$1 00	\$2,665							
530, 669	881	319	1, 200	145	78.3	398, 032	21, 214	153	3	13	2	4	* 25,471
7,862	22	4	26	162	95.3	5,740		6					
51,571	141	26	167	167	76.7	33,980	951	22	1				
68, 958	257	24	281	127.6	1 00	55, 471		11		3			
12,668	37	6	43	199.4	84.1	10, 015	347	3		1			
20,832	47	5	52	178.6	94.5	13, 980	600	3					
\$696,505	1,415	384	1,799			\$519,883	23, 112	198	4	17	2	4	25,471
				146.3	†\$0 89.4								

Average price paid for mining 556,454 gross tons, 47.5 cents per ton.

<sup>\*</sup> Price paid for machine mining, 27.5 cents per ton.

<sup>†</sup> Screened tons.



#### FOURTH INSPECTION DISTRICT-1899.

Counties: Cass, Logan, Macon, McLean, Menard, Tazewell, Vermilion.

John E. Williams, Inspector.

HON. DAVID Ross, Secretary,

State Bureau of Labor Statistics, Springfield, Illinois:

SIR:—One of the many duties incumbent on the State Inspectors of Mines. consists in keeping a detailed record of his services during the year, and to transmit the same to you in the form of an annual report. I herewith have the honor to submit the sixteenth annual report of the Fourth Inspection District for the year ended June 30, 1899. This report gives tabulated statements, by counties, of the number of mines operated during the year; number of shipping mines, also those that are operated for local trade: number of miners and other employes; the total output of all grades of coal; the average value of all the different grades of coal, and also the total value of the whole product of the mines; the casualties in and around the mine, both fatal and non-fatal; the average number of days of active operation; the quantity of powder used: the number of mining machines in use and the amount of coal cut by such machines; the kind of machines used and the kind of power used to operate them; the total tons of coal shipped; the number of horses and mules employed in and around the mines; the price paid for mining, both hand and machine work; the number of wives made widows and the number of children left fatherless; the amount of coal consumed or wasted around the mines; the number of new mines opened, as well as those abandoned, together with the most important improvements at the mines made during the year; also the geological number of each seam of coal,

The following summary is presented for the year:

Number of counties producing coal.	
	7
Number of shipping mines.	37
Number of local mines	50
Total number of mines	57
	056
	599
Total number of employes	655
	455
Number employed under ground.	200
Number of kegs of powder consumed	
Tons of other grades produced. 953, Total product of mines, tons. 3,537,	
Tons of coal shipped 2,746,8	
Tons of coal to local trade 504.6	

Tons of coal consumed at mines.	106,864
Number of fatal accidents	11
Number of non-fatal accidents	119
Total number of accidents	130
Number of employes to each fatal accident	423
Number of employes to each non-fatal accident	
Tons of coal produced to each fatal accident	305, 249
Tons of coal produced to each non-fatal accident	28, 216
Average value per ton of lump coal at the mine.	\$0.8513
Aggregate value of total product.	\$2,573,100
Average number of days worked during the year	199

The present year has been one of general activity in the coal business, and there have been practically no strikes to interrupt this condition. The only trouble worthy of mention is the strike at the Decatur Coal Company's mine, at Niantic, Macon county. This mine was idle for nine months, on account of the miners insisting that it become a union mine, with all the conditions that go with such a mine. The Coal Company insisted that it was impossible to make a profit out of the mine under the then existing conditions, and it would be impossible to continue operating the mine under the terms demanded by the union, as it very materially increased the cost of production. After nine months' idleness the mine resumed work as a machine mine, the company in the mean time having put in an electric plant and installed a number of Jeffrey mining machines. As a result of the prolonged strike at Niantic the tonnage of Macon county will be nearly one-third less this year than last -quite a noticeable fact when compared with all the other counties comprising the Fourth District, which shows a considerably increased tonnage over last year. That the mines of this district are in a much safer and better condition, is evidenced by the small number of fatilities this year compared with the preceding year, notwithstanding there was 785,678 more tons of coal produced this year than last. This year the district produced 3,357,737 tons of coal, being 305,249 tons of coal mined for each life lost, and compares favorably with the older mining countries of the world.

In all the larger mines of this district hand mining is being gradually superceded by machines, as evidenced by the increase in the number of machines and the tonnage cut by them. The inefficient and antiquated method of ventilating mines with a furnace is being rapidly displaced by the more improved mechanical method—that of a fan. There have been more fans placed in the mines in this district during the past year than was ever put up in the same length of time since the mine inspection service was inaugurated. Quite a number of small mines that are operated exclusively for local trade have displaced the old furnace with a steam fan, which greatly improves the ventilation of such mines.

Mine Fires.—Early in the morning of August 5, 1898, fire was discovered in the boiler room of the Westville Coal Company's mine, Westville. Such rapid progress had been made by the fire before being discovered that it was an utter impossibility to save the building, which served the double purpose of a boiler room and an engine room. The mine being operated exclusively by electric machines, the fire destroyed the large dynamo located in the engine room. Fortunately the fire did no damage to the hoisting engine and boilers. After a period of thirty-eight days a new brick engine and boiler room had

been constructed and work was resumed. There were 250 men employed in the mine at the time the property was destroyed. The building destroyed was a wooden structure valued at \$1,000, partly covered by insurance. None of the workmen who were in the mine at the time of the fire were injured, as they were all hoisted out at the escape shaft.

All the curbing in the shaft, and all the top works at the mine of A. H. Bonnets, eight miles northwest of Danville, were destroyed by fire August 26, 1898. The fire was communicated to the shaft from the furnace, with which the mine was ventilated. Prior to the time of the fire the mine was what was known as a gin-shaft, that is, all the coal was hoisted by horse power. The mine was at once retimbered from bottom to top, and new steam hoisting machinery was substituted for the old horse power arrangement; a new ten foot fan was placed in position, with which the mine is now ventilated. Two days before the fire I made an examination of the mine and pointed out the danger always attendant upon the use of a furnace in the mine, especially where it is connected to one end of the hoisting shaft. Work was resumed November 1, giving employment to ten men, the same number employed before the fire. For a small mine it is now a model one in every respect.

On the night of October 6, 1898, a fire occurred at Hilliards' No. 2 mine, near East Peoria, Tazewell county, entirely destroying the pit tower. As there was no one around the mine at the time the fire broke out, it was impossible to determine its origin, but it was believed to be the work of an incendiary. The top works were rebuilt as quickly as possible, and the mine resumed operation. Forty-two men were temporarily thrown idle on account of the fire.

Abandoned Mines.—The most important mine abandoned during the year was that of the Illinois Coal Mining Company, at Bloomington. This mine was a new one, having been in operation scarcely a year. The seam of coal being worked was four feet thick and of splendid quality: the condition for mining could hardly have been more favorable, and the selling price was all that could be desired. The property would undoubtedly have been a paying one. No reason was assigned as to why the mine was abandoned, but quite a number of the people of Bloomington suspected and concluded that the company had been bought out by the McLean County Coal Co., which operates a mine, and the only one, in Bloomington. All of the machinery, which was of the very best kind, was removed to a new mine at Centralia. this state.

The old slope at East Peoria, which has been in operation for a number of years, was abandoned on account of some litigation with the former owners.

A shaft some two hundred feet deep, at Virginia, Cass county, that was operated in a small way for local trade for a number of years, was found to be a non-dividend paying investment, and was accordingly abandoned early in the year. Several small mines near Danville, which were operated on a small scale for local trade, have also been abandoned.

New Mines.—Some five years ago a joint stock company, composed of wealthy farmers and representative business men, residing in and around Colfax, McLean county, sunk a shaft there to seam No. 6 of the geological

section, which was found at a depth of 400 feet, and was a little over five feet thick and of a superior quality; but at that time there was no work done other than to remove a little coal at the bottom of the shaft. Through a misunderstanding of the different stockholders, the property became involved in litigation, causing a suspension of operations, which continued until about a year ago, when the present owners, Messrs. Ewing & Pitt, of Bloomington, secured the property and equipped it with first class hoisting machinery, in connection with a tower that is intended for a large output. It will undoubtedly be operated extensively in a short time. The mine is situated on the Kankakee and Bloomington division of the I. C. R. R., and the product will be shipped to Chicago and the northwest. About fifty men are employed at the present time.

A small shaft sunk in East Peoria by the Enterprise Coal Company, and was at first equipped with a gin arrangement to hoist the coal. Mr. William Cruickshanks & Sons have bought the mine, and have displaced the gin with a small geared hoisting engine, which makes it one of the best mines in that vicinity.

Escape Shafts.—The Himrod Coal Co., Danville, has completed its escape shaft, which is one of the largest in the State, and has equipped it with the necessary hoisting machinery to insure the safe and speedy removal of workmen in case of danger. It is 10x17 feet in the clear, over which a 20-foot fan has been placed for ventilation.

The Brookside Coal Co., Grape Creek, has sunk a new air shaft at its No. 1 mine, which greatly improves the ventilation.

King & Grosweiler, of Pekin, have completed sinking an escape shaft.

Arthur Jones & Sons, of Catlin, have sunk a new escape shaft which will be connected as soon as possible with their old mine, and will be used for a hoisting shaft afterwards.

New Fans.—The Kelleyville Coal Co. Westville, has placed a 12 foot fan at its No. 2 mine; the mine is now ventilated by two fans that are both run at the same time, one of which is 16 feet in diameter and the other is 12 feet. The larger one is used to ventilate the east side and the smaller one to ventilate the west side. This method greatly improves the ventilation, as the mine had become too extensive, and employed too many miners for the one fan to force a sufficient amount of air through the workings.

John O. Connel, who operates a mine at Grape Creek, known as the Blue Bird mine, has thoroughly remodeled the top works, and has discarded the slow horse hoister and placed in its stead a pair of geared double hoisting engines for the speedy removal of the coal. He has also added a new 12-foot fan for better ventilation.

Alfred Blake, East Peoria, has improved the ventilation of his mine by discarding the use of the furnace as a ventilator, and erecting a six-foot fan in its stead.

King & Grosweiler, Pekin, have erected a new 8-footfan of the Brazil type. Spangler & Miller, operating a small mine near Danville for local trade, now use an 8 foot fan.

Fatal Accidents.—George Sevillion, aged 35, single, was killed in room No. 12, fifth east entry, in the mine of the Consolidated Coal Company, at Fairmount, July 6, 1898. Deceased had fired several shots the night before, which had knocked out several props, and he was engaged in resetting them when the accident happened. He was of English descent, and lived in Rosedale, Ind.

Charles Hughes, aged 24 years, single, was killed in the mine of the Athens Coal Co., Athens, July 22, 1898, by a fall of slate. Deceased, at the time of the accident was employed as a loader, and had gone into the entry to work, when he observed that the track was too far back from the working face. He had taken his tools to lay the track and had just commenced work when the roof fell on him, killing him instantly. The place had been marked "dangerous" by the mine examiner, but it was very apparent that deceased had made no examination of the place before beginning work.

Frank Daniels, aged 25, single, was killed in A. Bonnett's mine, eight miles northwest of Danville, August 22, 1898, by a fall of roof. Parties working in the next room to deceased had called his attention to the dangerous condition of the roof, just a short time prior to the accident, but he paid no attention to the friendly warning, with the result as above stated.

October 8, 1898, John M. Rennick, aged 53 years a stable boss in the employ of the Catlin Coal Company, Catlin, got on a cage which was standing at the lower landing, for the purpose of going down into the mine, but for some reason failed to give the engineer the proper signal; the engineer raised him up. He became excited and jumped off, falling back into the shaft, which is nearly 200 feet deep, killing him instantly. He leaves a widow and five children.

George Ballanted, aged 27 years, was killed in room No. 32, sixth northeast entry in mine No. 2 of the Kelleyville Coal Co., October 26, 1898, by a fall of roof. He had discovered a bad rock in the room, and was making preparations to secure the same for his own safety, when the rock suddenly fell, with the result as stated. He left a widow and three children in indigent circumstances.

Andrew Hasse, a miner, employed in the mine of the Citizen's Coal Co., Lincoln, met death on the evening of Nov. 23, 1898, by the inhalation of carbonic oxide gas. At the regular shooting time deceased had fired a shot that had not sufficient amount of powder to blast the coal loose, and in mining parlance had "whistled through the needle hole," giving off very little smoke but a considerable amount of gas. In his haste to leave the mine with the other men he did not wait for the gas to be removed with the air, but went in to recharge the same hole. The evidence plainly showed that he understood the danger he was in, as he had retreated to the the cross-cut for fresh air before he had completed his task of recharging. He hastened back once more and commenced to tamp the hole, when he felt his senses leaving him. He made a frantic effort to reach the cross-hole again when he got bewildered out of the right road, where he was found by the night boss at about 7 p. m. He left a widow and three children dependent.

William Schoenbeck, a miner engaged in drawing pillars at the Pawnee Coal company's mine, Westville, was killed by a fall of rock. The accident happened Oct. 19, 1898. He was aged 48 years, married, leaving a widow and three children.

P. J. Franks, aged 60 years, single, resident of Westville, was killed in a room of the Kelleyville Coal company's No. 2 mine, January 19, 1899, by a fall of roof.

James Mitchenson, aged 50 years, was killed at the working face of his room by a fall of coal, Nov. 7, 1898. He was a widower, leaving two children.

Charles Sablatrey, aged 57 years, was killed by a fall of coal in the No. 2 mine of the Decatur Coal company, Decatur, Feb 4, 1899. He was a Polander by birth and left a widow and five children.

Randolph Hudson, miner, aged 52, working in the mine of the Catlin Coal company, was instantly killed April 11, 1899, under the most peculiar circumstances. Miners working in the adjoining room, on the right of him, had discovered a large loose rock at the face of his room, which he was in the act of taking down, and was engaged in knocking out a prop from under it. When deceased came to the cross-cut between the two rooms he was told to stay back or he might get hurt. He stood still for a few minutes in the cross-cut watching the progress made in getting the loose rock down. The person working at the rock left it for a moment for the purpose of getting a piece of rail with which to knock out the prop, when deceased rushed in, saying, "Let me strike it," which he did, when the rock, weighing fully six tons, fell squarely on him. He left two children dependent. He was a member in good standing, of the Odd-Fellows, who buried him with all the honors of that Order.

Fatal Casualities—Fourth District, 1899.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Depend'nts	Cause of Accident.
Oct. 8 Oct. 19 Oct. 26 Nov. 7	George Sevillion Chas Hughes Frank Daniels. John M. Rennick. Wm. Schoenbeek Geo. Ballanted. James Mitchenson Andrew Hasse	53 48 27 50	Stable boss. Miner	Catlin Dauville Westville	1 1	1	3		4	Falling rock Falling rock Falling rock Falling down shaft Falling rock Falling rock Falling coal Suffocation by gas
Feb. 4	P. J. Frauks Chas. Sablatery Randolph Hudson Totals	57 52		!	-	-	-	_	_	Falling rock

## Recapitulation Fatal Casualities Fourth District, 1899.

Residence.   N	o. Occupation.	Nο.	Nature of Casualty	No.	Colliery.	No.
Athens Blount Catlin Danville Decatur. Fairmount Lincoln Westville	1 Miner 2 Stable boss 2 1 1 1 1 3		Falling coal Falling down shaft Falling rock Suffocation by gas.	1	Athens Coal Co Bonnetts, A Cattlin Coal Co Citizens Coal Co Consolidated Coal Co Consolidated Coal Co Kelleyville Coal Co Rawnee Coal Co Pawnee Coal Co Westville Coal Co	1 2 1 1 1
Totals 1	1	11	-	11	•	11
1				• • •		

# $Non-Fatal\ Casualties{--}Fourth\ District,\ 1899.$

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of Injury.	Time lost
100								-	
1898. ulv 13	James Cottrell	25	Grape Cr'k .		1			Back and head injured	
22	James Mitchell	36	Fairmount	1		1	2	Body injuredBack injured	
23	M. Corrigan						1	Back injured	
29	Geo. Strickler	30	Westville		1			Arm crushed	
30	Chas. Polson	33	Grape Cr k .		1			Leg broken	
ug. 1	Willis Dorsett Chas. Jenkins	20	Winning 621.1	1		5	- 4	Back injured	
11 15	Honey Wright	19	anssignii id.					Hand crushed	
* 17	Henry Wright W. A. Stone	30	Westville.	1		i		Shoulder bruised	1
18	Robt. Keefe	18	Colfax					Back injured	
' 19	Frank Morse			1		2	3	Body injured	
24	I. N. Slade	52		- 1		- 8	9	Foot injured	
25	S. A. Smoot	38		- 1		1	2	Foot injured	
26	Chas. Casteel	23	Catlin	٠	1	:		Back injured	
						1	2	Back injured	
	M. Slade		Missionn id.		1	• • • • .		Hand injured	
	P. Hogan		4.4					Hand injured	
ept. 3	N. S. McCannon B. N. Babb	20	* *					Eye injured	
9	Thos. Henry	50	Westville	1				Collar bone broken	
. 3	Galvin Lichman .	25	• •					Hip injured	
3	John Jackson	25	**					Hip bruised	
8	S. Roberts	57	Missionti'ln.	1		7		Hand injured	
** 10	Jas. Brytis							Leg broken	
** 12	John Errickson	21	Danville		. 1			Face injured	
114	L. Errickson	21	Catlin	1			4	Foot injured	
19	Mike Louder	35	Westville		1.			Ankle injured	
26	Chas. Long	25	Grane Cr'k.		1			Leg broken	
et. 11	Peter Alvoid John Bull	20	Westville		4 4			Body injured	
11 22	John Bull	24	Atnens		1			Foot crushed	
20	has, Ramsey Wm. Woodley	43	Pleaminat's	- 1		5	- 6	Leg broken Leg injured	
ov. 3	Joe Norkys	35	Westville		1			Collar bone broken	
1	W. Kintz	27	Fairmonnt .						
., 5	A. Merry	60	Grape Cr'k .	1			1	Toe injured	
	J. Daubow	(b()	Danville	1			ā	Foot injured	
11 7	J. Courtney	50	Westville			2 2	3	Ankle injured	
	Alf Hackney					- 2	3	Face injured	
1.1	V. Montgerard	50	Danville	1	١	1		Arm broken	
21	M. Colman		Westville		1		;	Face injured	
95	R. K. Fox	45	Danville	. 1			1	Foot injured	
11 20	F. Fletcher Perry Gritted	20	Wissignfild		i'	···i		Back injured	
11 18	S. Roberts	50	arissionii id.	1		5	6	Finger cut off	
is	Frank Woodard.	21						Hand injured	
	Grant Evans		* *	1	i î	3	4	Thumb injured	
1	John G. Dawson .			1			1	Head injured	
'' 1	Abner Jenkins	123				1	2	Back injured	
2	John Baum	.>	Westville		l	1	2	Leg injured	
3	John Grear	26	n		١, ٠٠٠٠	1	2	Finger broken	
2	Sam Morse J. Davis	137	Fairmount	1	l	2	- 3	Back injured Body injured	

## Non-Fatal Casualties-Fourth District.--Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of Injury.	Time lost
1898.	W D M	09	0-11					TI - 1 ii	
6	W. P. Myers James Hill	156	Oakwood Westville	1		5	5	Head injured Back injured	İ.
7	Ollie Surdam D. Andrews			1	····i		1	Head cut	1
8	Lewis Young	27	Catlin	1			1	Back injured	
114	Lewis Young Henry Crawford. Jasper Humble	30	Danville	1		5	3	Arm broken Back injured Body injured Hips injured	
20	A. Deacamp	140	westville	1		3	4	Arm broken	
** 28	Riley Martin J. Mantz	31	Bloomingt'n	1	····i	5	6	Leg and ankle hurt	ĺ
** 31	Andrew Politus	25	Westville		1		,	Body injured	1
1899.					-				
an. 1	Clate Fertig	22	Grape Cr'k. Danville	;	1			Foot injured	
6	Chas. Angle Wm. Hamilton	21	Westville	1	1 1	····· 2		Hips injured	ŀ
6	Chas. Easton Wm. Sontag	10	Bloomingt'n	1	····i		3	Arm crushed	
10	Frank Moss	131	Missionfi'ld.	1 1		3	4	Hand injured!	
	Paul Pause Willard Blue	32	Grape Cr'k.	1		1 2	3	Foot injured Hips injured Hips injured Arin crushed Leg broken, Hand injured! Body injured! Hip for injured Arin broken Leg cut off	ŀ
** 19	John Boda	136	Westville		1			Finger injured	ŀ
								Leg cut off	ŀ
** 23	Wm. Woodson Bert Stagner P. J. Ogden G. Mauritz	23	Colfax		1		;	Arm broken Leg cut off Back injured Back injured Arm injured Leg broken Leg injured Leg injured Leg injured	ŀ
eb. 2	G. Mauritz	35	Decatur	1		4	5	Arm injured	
4	James Dickson Fred Barkley	22	Athens		1			Leg broken	į
., 4	Chris Pickens	57	Decatur	···i		4	5	Leg injured	l
7	Chris Pickens Chas. Wascheck Gerome Dickens.	34	Depuille	1	····i	-1	5	Rib broken. Arm injured. Ankle injured. Back injured. Foot crushed.	l
10	Gieo, Jones	125	Tallula	1 1		3	4	Ankle injured	-
16	D. Nevins	61	Westville	1		4	1	Back injured	l
* * 20	Barney Brady	133	Grane ('r'k		1 1			Foot crushed Leg broken Leg injured Body injured Body injured Eyes injured Eyes injured Eyes injured Eyes injured Eyes injured Eyes injured Arm irmised	ŀ
	Chas Conroy Ino. Leichty				1			Foot injured	ı
28	Joe Gushkieck Thurman Rouse. Arthur Hille	39	Grape Creek	1		3	4	Body injured	
Ich. 2	Arthur Hille	20	Grape Creek		1			Eyes injured	
υ	Jas. Applegate	49	MISSIONE IG.	1		7	8	Foot injured	
oril 6	Frank Love Grant Evans	36		···i	1	2	3	Eye injured	
10	Grant Evans Geo. Steele Aug. Young	38	Donnillo	1		3	4	Arm bruised	ı
19	J. DIaze	0.4	Grape Greek		i		*	Leg injured	
16	A. Hunter Henry Smith	30	Westville East Peoria.					Arm bruised Leg broken Leg injured Foot injured Ankle fractured	
Iay 4	P. Anderson	. 36	Westville		1			Leg broken. Back and head injured	l
6	Tom Coxen	$\frac{ 30}{33}$		1	i		1	Back and head injured	
19	A. E. Petty Roy Williams	30	-	1		1 2	3	Toe cut off	
23	C. Sharlen John Brooks	46  50	Danville East Peoria.	1 1		5	6	Foot injured Toe cut off. Leg broken Leg and foot injured.	Ì
75	Chris Schnaant	36	Westville	1		1	2	Leg broken	
25	Anton Morich Geo. W. Brewer	51	Decatur	1	····i	3	4	Ribs broken	
une a	John Hall		Colfor		1		2		
11 13	Mauuel Slade Chris Long	26	Missionfi'ld. Westville Danville		1 1			Finger cut off. Body injured. Back injured.	
13	Geo. Goulding J. E. Hughes	26	Danville	1			1	Back injured	
18	Henry Rowe	27	Greenview	1	1		2		
20	Henry Rowe E. P. Smith				1	3	;	Ankle broken Ankle injuredBody injured	
21	Joseph Gerrish E. A. Roger	27	Westville Bloomingt'n	1		1	2		1
25	Wm. Homer	.   43	reenview	1		5	5		
51	J. Harbeskny	- 192	protutu	1 1	1	1 9	. 0	Dack mjureu	1

<sup>\*</sup> Not recovered June 30, 1899.

Total men injured	119
Not recovered July 1, 1899. Number recovered	118
Time lost by men recovered.  Average time lost by men recovered.	5,324 days.
Average time lost by men recovered	93.1

# $Recapitulation \ of \ Non-Fatal \ Casualties-Fourth \ District-1899.$

Residence.	No.	Occupation.	No.	${\bf Cause\ of\ Accident}.$	No.	Colliery.	No.
Athens	4 6 5 12 4 2 3 12 3 12 27 1 27	Cager	11 17 31 31 11 12 53	Ax	1 1 31 50 1 4 1 2 2 1 2 2	Athens Coal Co Andridge Coal Co. Balake, A. C Brookside Coal Co. Brookside Coal Co. coalin Coal Co Colfax Coal Co Consolidated Coal Co Consolidated Coal Co East Peoria Coal Co East Peoria Coal Co East Peoria Coal Co Ender Peoria Coal Co Glemburn Coal Co Glemburn Coal Co Glemburn Coal Co Kellyville Coal Co. McLean Coal Co. Tallula Coal Co. Wabash Coal Co. Wabash Coal Co Westville Coal Co	1 8 1 .
Totals	119		119		119	,	119

#### Table showing the Nature of Injuries, Number of Persons Injuried, Dependents, Time Lost, with Averages and Percentages—Fourth District.

				nts.	Тіме	Lost.	Jo s
Nature of Injuries.	Number.	Married.	Single.	Dependents	Total days.	Average days.	Per cent injuries
Ankles injured Arms broken Arms broken Arms injured Back and head injured Backs injured Bodies injured Collar bones broken Eyes injured Eyes injured Eyes injured Fingers injured Fingers injured Hands injured Hands injured Heads injured Heads injured Leus broken Hijs broken Hijs injured Leus injured Toe cut off Toe cut off Toe cut off Toe sinjured	66 54 11 166 133 33 33 33 33 34 16 12 12 11 12 12 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	3 3 3 1 2 4	3 2 1 1 4 4 1 1 1 2 5 1 3	12 6 6 6 12 29 30 1 3 3 42 5 1 5 4 4 4 10	166 257 330 916 689 100 36 71 340 212 212 46 29 46 896 896 156 896 150 120 120 120 120 120 120 120 120 120 12	27.7 51.4 82.5 10 57.3 53 50 12 23.7 26.2 70.7 25.3 13.3 9.7 46 82.2 100 100 100 100 100 100 100 100 100 10	5.05 4.2 3.36 10.92 1.68 2.52 2.52 2.52 2.52 2.52 2.52 2.52 2.5
Totals, averages and percentages	119	64	55	213	5,324	44.7	100.00

### Cass County—Fourth District—1899.

				DES	CI	RIPT	on.		OUTFIT.				
Number:	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shafe, slope or drift	Steam, horse or hand power	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Ton of other grades		
1 2	J. G. & G. S. Russell Chris Nelson	Ashland Chandlerville	205 30	$\frac{2.4}{2.10}$	5	Sh.	S. Ho.	М. В.	2, 150 1, 280				
	Totals								3, 430	.3,080	350		
	Averages				٠.								

Whole number of openings reported in 1898, 3.

Number of mines exhausted or abandoned during the year, 1.

Whole number of openings reported for 1899, 2.

# Logan County—Fourth District—1899.

				DES	CRIPT	ION.		OUTPUT.				
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Greelogical No. of seam Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades		
1 2 3	Lincoln Coal Co Citizens' Coal Mining Co Union Coal Co	Lincoln Mt. Pulaski	285 290 360	5 5 4	5 Sh.	s.	В.	99, 962 74, 019 12, 000	46,632	27,387		
	Totals							185,981	116,609	69,372		
	Averages											

Whole number of openings reported in 1898, 3.

Whole number of openings reported for 1899. 3.

# Cass County, 1899—Concluded.

		VALUE	s.	Em	IPLOYI	s.	ton—	onth-	'n.	during uployés lp.		mules at the	A DE	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total empioyés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid duthe year to all emplexcepting office help.	Kegs of powder used.	doyed in or abore.	Fatal.	Non-fatal.
1 2	\$1 65 1 75	\$0.80	\$3,250 2,240 \$5,490	10 5	4 1 5	14 6 20	\$1 00 1 00	S-M.	200 180	82,480 1,465 83,945	64	<u>i</u>		
	\$1 69	\$0.80				• • • • • •	\$1 00		190				• •	

# Logan County, 1899—Concluded.

		VALUES		Ем	PLOYI	ıs.	l ton	nth.	į	during uployés lp.		t rie	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per screened -band mining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid du the year to all empl excepting office help	Kegs of powder used.	Number of horses or n employed in or abou mine. Fatal.	Non-fatal.
1 2 3	\$1 10 1 06 90	80 40 40 60	\$32,369 60,385 9,600 \$152,351	90 70 15	48 32 6	135 102 21	80 42.5 42.5 51	• • •	265 182 170	* 858, 571 8, 750 867, 121	3, 400 2, 119 300 5, 819		····i ····
	\$1 07	\$0 41.1					80 43.5						

<sup>\*</sup> Amount not reported.

#### Macon County—Fourth District—1899.

				DE	SCI	RIPT	ion.		OUTPUT.				
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	e c	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades		
1 2 3	Decatur Coal Co., No. 1 No. 2	Decatur	612 614 365	4 4 5	5 5 5	Sh.	s.	М. В.	86,680 88,680 21,688	70,000	18,680		
	Totals								197,048	157,021	40,027		

Whole number of openings reported in 1898, 3.

Whole number of openings reported for 1899, 3.

### McLean County-Fourth District-1899.

				DE	SCRI	PTIO	N.			Эптьпт.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3	McLean County Coal Co. C. H. Hewitt Coal Co Colfax Coal Mining Co E. Colfax Coal Co Illinois Coal Mining Co Totals	Colfax Bloomingt'n	400 400 400	5.6 5 6 4	6 6 5	::	ş. 	М. В. М.	138,098 12,000 31,356 3,000 25,000 209,454	126,700 9,500 23,446 2,000 22,000 183,646	2,500 7,910

Whole number of openings reported in 1898, 3.

Number of new mines or places opened during the year, 2.

Whole number of openings reported for 1899, 5.

#### Macon County, 1899—Concluded.

		VALUES		Ем	PLOYI	es.	ton-	outh-	ņ.	ring		ulles t the		CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-mouth ly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3	\$1 17 1 17 60	\$0 40 40 35	\$88, 067 89, 372 2, 010 \$189, 449	- 100 110 58 268	42 44 24 110	142 154 82 378	\$0 50 50 40	W.	300 300 74	\$135,000 100,000 12,901 \$247,901	791			3 3
İ	81 10.6	\$0 39.5 .					\$0 48.9		224					

# McLean County, 1889—Concluded.

		VALUES		Ex	IPLOY	ES.	ton –	inth	ä	during uployés dp.			ACCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or mn employed in or about mine.	Nomfetel
1 2 3 4 5	81 10 1 70 99 90 1 20	80 70 1 10 44 50 80	8147, 349 18, 900 26, 691 2, 300 28, 800 8224, 040	215 15 26 8 15 279	65 9 23 5 6	280 24 49 13 21 387	42 40 55	₩. s-M. ∷	287 300 280 150 150	\$114, 646 6, 500 25, 627 2, 500 14, 000 8163, 273	1,312 150 25 1,962	2 6 3	
İ	81 12.6	\$0 67.7					80 56.1		233				

 $<sup>^{\</sup>ast}$  Upper seam 4 feet thick, 55 cents per gross ton; lower seam 3 feet thick, 65 cents per gross ton.

#### Menard County—Fourth District, 1899.

				DE	SCI	RIPT	ION.			Output.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8	Athens Mining Co Chic. & Kas. City Coal Co Wabash Coal Co. Talhula Coal Co. William Parkin. S. Mountain Coal Co. Greenview C. Mining Co. William Denton M. A. Hohimer. F. M. Miller.  Totals  Averages.	Petersburg' Athens Tallnia Sweetwater Petersburg Greenview Petersburg Tice	185 170 85 100 60 60 60	5.6 5.6 5.6 5.6 6 6 6 5.6	555555555	Sh.	н.	B	121,593 59,745 117,069 29,000 1,929 5,589 89,071 2,124 1,438 381	44, 742 87, 069 26, 922 1, 529 4, 324 59, 381 2, 124 1, 438 381	15, 003 30, 000 2, 978 400 265 29, 690

Whole number of openings reported in 1898, 10.

Whole number of openings reported for 1899, 10.

Mined by machine, 71,471 tons, at 34 cents per ton.

# $Taze well\ County-Fourth\ District,\ 1899.$

				DE	SCI	RIPT	ion.			OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- fect and inches.	Geological No. of scam	Shaft, slope or drift,	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8 9 10	A. C. Blake Bohlander Bros G. Gebelhausen E. Peoria Coal Co Butler Bros King & Grosweiler Cruickshanks G Sons Edward Little Millard Bros L. Grant & Sons Keusche Bros Groveland Coal Co Totals Averages	Pekin East Peoria Pekin East Peoria Pekin East Peoria	120 90 85 100 130 70 100 100 65 50	5 4 5 5 4 4 4 4.8	5 5 5 6 5 5 5 5	Sh. Sh. Sh. Sh. Sh.	St. H. St. H.	В,	19,047 5,526 1 601 20,000 4,500 2,239 26,705 2,000 24,000 4,000 112,018	1,561	40 8,750 160 664 300 4,000

Whole number of openings reported in 1898, 12.

Number of mines or places opened during the year, 1.

Number of mines exhausted or abandoned during the year, 1.

Whole number of openings reported for 1999, 12.

# Menard County, 1899.—Concluded.

		VALUE	s.	Ем	PLOYE	s.	toil –	outh-	n.	d during employés help.		inles t the	A	CI- NTS
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid du the year to all empl excepting office belp.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3 4 5 6 7 8 9	\$0 76 78 85 90 1 50 1 25 82 1 00 1 75 1 50	80 20 26 30 48 1 25 50 51	877, 144 38, 799 83, 009 24, 849 2, 795 6, 038 63, 834 2, 124 2, 516 572 8301, 680	116 80 90 26 5 65 4 4 2	56 30 32 14 3 3 3 30 3 1 1	172 110 122 40 8 8 95 7 5 3	40.7 40.7 40.7 *62.5 40.7 40.7	S-M. M. S-M. W.	240 143 279 313 175 179 200 175 300 75	\$69, 729 40, 745 73, 042 20, 204 2, 219 4, 526 51, 200 \$50 248  \$264, 732	2, 804 2, 263 4, 123 1, 059 211 2, 970 138 120 20	11	1	1 2 2 2 3 3 9
	80 82.4	\$0 33,8					80 40.72		208					

<sup>\*</sup> Riddled coal.

# $Tazewell\ County,\ 1899.— {\tt Concluded}.$

	VALUES		Ем	PLOYES	٠.	ton	month	ė	during iployé ip.		nt th	LUCI- ENTS
Number. Average value of hump	alue of	Aggregate value of fotal product.	Average number of miners employed.	All other employés.	Total employes.	Price paid per gross thand mining.	Paid monthly, semi mely or weekly.	Days of active operation.	Total wages paid during the year to all employed excepting office help.	Kegs of powder used.	Number of horses or mule employed in or about the mine.  Fatal.	Non-fadal
1 81 00 2 1 10 3 1 00 4 90 5 9 8 6 1 90 7 1 0 8 8 9 8 9 8 10 1 00 11 1 00 12 1 00	25 53.5 40 27 50 50 50 50	815, 172 6, 079 1, 571 14, 806 4, 275 304 1, 817 22, 690 1, 670 1, 850 3, 750	20 7 3 28 7 6 10 30 14 15 6	11 2 1 6 5 1 3 12 9 8	31 9 4 34 12 7 13 42 23 23 10 6	\$0 45 *72.5 *70 45 50 *72.5 45 45 45 45 45 45	S.M. W. S.M. W. S.M.	212 240 200 280 165 150 120 231 50 250 200	\$11,000 4,000 1,100 12,550 2,500 2,356 280 16,488 1,500 16,500 1,500 3,000	700 325 77 850 150 40 88 1,411 1000 1,000 200	2 1 1 2 2 2	
so 9	1.6 80 44.5	\$95,993	150	64	214	80 45		187	872, 774	5,041	25	

<sup>\*</sup> Forked coal.

<sup>†</sup> Forked coal.

Average for 4,053 forked and riddled tons, 57.3 cents per ton.

## Vermilion County-Fourth District-1899.

				DES	CR	IPTI	on.		C	OUTPUT,	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4 5 6 7 8 9 10 11 12 13 14 15 6 17 8 19 10 11 12 13 14 15 6 17 8 19 10 11 12 13 14 15 6 17 8 19 10 11 12 13 14 15 6 17 8 19 10 11 12 13 14 15 6 17 8 19 10 11 11 11 11 11 11 11 11 11 11 11 11	Himrod Coal Co. No. 1. Catlin Coal Co. No. 2. Kellyville Coal Co. No. 3 Kellyville Coal Co. No. 3 Westville Coal Co. No. 3 Consolidated Coal Co. No. 1. Brookside Coal Co. No. 1. Brookside Coal Co. No. 1. Brookside Coal Co. No. 1. John O. Connell. Muncie Coal Co. Glenburn Coal Co. France Bros. No. 1 E. S. Gray L. L. Hawes L. H	Garim Westville Fairmount Missionfield. Danville Grape Greek. Muncie. Glenburn. Catlin Danville Catlin. Catlin. Grape Creek. Danville Catlin. Danville Catlin. Danville Catlin. Danville Catlin. Danville Grape Creek. Danville Grape Greek Catlin. Danville Catlin. Danville Grape Greek Catlin. Catl	210 2088 40 40 520 40 40 40 40 40 40 40 40 40 40 40 40 40	8867775666776555555555555566655566665566667545664666	666666777666777777766777777777777777777	Sh	S:	M. B. ** M. B. * B	250, 440 215, 876 157, 876 157, 876 203, 308, 308, 203,	177, 069 115, 876 127, 876 127, 876 128, 035 288, 035 288, 035 288, 121 112, 958 75, 306 4, 800 11, 030 4, 000 11, 030 4, 000 11, 030	6,000 100 245 2,187 1,183
	Averages				l				-,,501	_,,000,001	302,01

<sup>\*\*</sup> Both.

<sup>‡</sup> Strip.

Whole number of openings reported in 1898, 60. Number of mines exhausted or abandoned during the year, 8. Whole number of openings reported for 1899, 52.

## Vermilion County, 1899 -- Concluded.

	VALUES		Ex	IPLOYE	.s.	\$	E .	i i	£ 5		Ē7 ,	ĎΕ	CC.
Average value of hump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employés.	Price paid per gross hand mining.	Paid mouthly, semi-mouth ly or weekly.	Days of active operation.	Total wages paid during the year to all emplorés excepting office belp.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal	
80 62.5 62.5 62.5 62.5 62.5 62.5 62.5 62.5	80 62.5  20  62  30 40 70  68  70  68  75  62  25  75  75  20  75  20  40  40  40  40  40  40  40  40  40	8156, 525 134, 922 120, 870 259, 231 157, 915, 617 176, 137 61, 207 91, 617 52, 806 73, 423 3, 600 9, 500 1, 1300 1, 1	1100 755 7110 1100 755 750 750 750 750 750 750 750 750 7	90 53 42 131 100 711 35 56 6 4 4 4 4 4 4 2 2 2 2 2 2 2 2 1,053	2000 128 2 3 4 1 1 2 1 5 2 7 1 1 5 2 7 1 1 6 6 5 5 3 4 4 1 1 1 2 1 2 8 2 7 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* \$0 40		252 252 252 252 252 252 252 252 252 252	\$138, 461 121 233 15, 605 174, 424 168, 956 122, 450 173, 474 174, 367 174, 474 17, 552 175, 672 175,	1, 912 1, 1408 2, 1, 1, 1008 2, 1, 1, 1008 2, 1, 1, 2000 2, 1, 2000 2, 1, 2000 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	27	1 1 2 2 2 2 1 1 1	

<sup>\*</sup> Price for machine mining, 30 cents per ton.

<sup>†</sup> Price for machine mining, 23 cents per ton.
Price for machine mining, 35 cents per ton.

Miners paid \$1.50 per day for mining 120,365 tons.

<sup>¶</sup> Forked coal.

#### Recapitulation by Counties—

	1	ΙI	NE	s.			1	Products			V	ALUES.
Counties.	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines	Total tons produced.	Tons of lump coal.	Tons of other grades.	Tons shipped.	Tons consumed or wasted at the mines.	Average value per ton of lump at the mines	Average value of other grades per ton at the mines.
Cass	2		2		1	3,430	3,080	350		300	\$1 69	\$0 80
Logan	3	3				185, 981	116,609	69, 372	141,568	11, 198	1 07	0 411
Macon	3	3				197,048	157, 021	40,027	65, 327	5, 104	1 106	0 395
McLean	5	4	1	2		209, 454	183, 646	25, 808	77, 169	15, 191	1 126	0 677
Menard	10	5	5			427, 939	321,341	106,598	370, 750	19,916	0 824	0 338
Tazewell	12	4	8	1	1	112,018	92, 137	19,881	39, 305	2,886	0 946	0 445
Vermilion	52	18	34		8	2, 221, 867	1,530,551	691,316	2, 052, 723	52, 269	0 7739	0 6055
Totals	87		50	3	10	3, 357, 737	2, 404, 385	953, 352	2,746,842	106,861		
Averages											\$0 8513	\$0 5509

Whole number of openings reported in 1898, 94.

Number of new mines or places opened during the year, 3.

Number of mines exhausted or abandoned duringthe year, 10.

Whole number of openings reported for 1899, 87.

Average price paid for mining 18,610 screened tons, 72 cents per ton; 120,365 tons mined and paid for at \$1.50 per day.

#### Fourth District -1899.

	EM	PLOY:			E SEE	3.5	der_	PH -	Casca	LTIE>	-	- Maci	tines.
Aggregate value of fotal product	Number of miners.	Number of other employes.	Total employés,	Average number of days active operation.	Average price paid per- gross for for band mining	Total wages paid during the year to all employes excepting effice help.	Number of kegs of powder used	Number of horses a males employed in a about the mines.	Killed.		of mines	Number of machines in use,	Total tons cut by machines.
\$5,490	15	5	20	190	\$1 00	\$3,945	64	1					
152, 354	175	56	261	205	0 435	67, 121	5,519	33	1	1			
189, 449	268	110	375	221	0 489	247, 901	791	34	1	3			
224,040	279	108	387	233	0 504	163,173	1,962	29	•••••	14			
301,680	397	173	570	208	0 407	264, 732	13, 795	52	1	8	1	S	71, 471
95, 993	150	64	214	187	0 45	72,774	5,041	25		2			
1,603,094	1,772	1,053	2,825	193	0 40	1, 264, 361	43, 449	252	8	91	5	58	1, 011, 890
\$2,573,100	3,056	1,599	4,655			82,084,107	70,924	426		119	<del>9</del>	-66	*1,083,361
				199	80 4315								

<sup>\*</sup> Average price paid for machine mining, 29.1 cents per ton.



#### FIFTH INSPECTION DISTRICT 1899.

Counties: Calhoun, Christian, Greene, Macoupin, Montgomery, Sangamon, Shelby, Scott, Jersey, Morgan.

Walton Rutledge, Inspector, Alton, Ill.

Hon. David Ross, Secretary,

State Bureau of Labor Statistics, Springfield, Illinois:

SIR:-In compliance with section 12 of an act of the General Assembly, in relation to coal mines and subjects relating thereto, and providing for the health and safety of persons employed therein, I have the honor herewith to submit the sixteenth annual report of the Fifth Inspection District, for the year ended June 30, 1899. The tabular part of this report gives the number of mines in the district, both shipping and local; new mines and abandoned mines; the depth of coal below the surface; the thickness of the seams of coal, and the geological number thereof; the number of miners and other employés engaged in the mining industry of the district; the number of days each mine was in operation during the year; the number of kegs of powder used in mining; the number of accidents, fatal and non-fatal; the number of horses and mules employed in and around the mine; the number of tons of lump and other grades of coal produced, and the disposition made of the same, whether shipped, sold to local consumers, or consumed at the mine; the prices per ton paid for mining; the value of lump and other grades per ton at the mine: the number of coal cutting machines in use, the power used by coal cutting machines, the total tonnage cut by machines, the aggregate value of the total product; the number of mines using cable haulage, and electric haulage; the number of ventilating fans; and the number of shaking or mechanical screens used at the mines.

The coal production, by counties, in the Fifth District, with increase or decrease of output in each, for the years ending June 30, 1898, and 1899, is shown as follows:

Counties.	Total Output of of Coal in		Increase.	Decrease.
	1898.	1899.		
Calhoun Christian Greene Greene Jersey Macoupin Montgomery Morgan Sangamon Scott Shelby	495, 616 8, 520 1, 680 1, 264, 926 294, 667 1, 800 1, 763, 863 21, 337 68, 388	4, 118 572, 459 14, 370 4, 050 1, 646, 674 354, 201 4, 800 2, 083, 572 20, 617 105, 765	5, 85 2, 370 381, 748 59, 534 3, 000 319, 707	72
Total.		4,810,626		886, 43
Decrease			• • • • • • • • • • • • • • • • • • • •	884, 93

The following summary is given as a recapitulation of the principal facts to be found in the schedules of the various counties:

Number of mines	87
Number of shipping mines	51
Number of local mines	3€
Number of new mines	10
Number of abandoned mines	2
Total output in tons of 2,000 pounds	4,810,626
Tons of lump coal	3,480,311
Tons of other grades	1, 330, 315
Tons hisped by railroads.	4,095,235
A verage value per ton of lump coal at the mine	80.8215
Average value per ton of other grades at the mine	\$0.3456
Aggregate value of total product	\$3, 318, 120
Aggregate value of total product	4, 421
Number of miners	1,980
Number of other employés	
Total number of employès  Average number of days worked during the year	6,401
Average number of days worked during the year	190
Total amount paid out in wages	\$2,665,965
Total amount paid out in wages. Number of kegs of powder used. Number of horses and mules in and around the mines.	100,756
Number of horses and mules in and around the mines	621
Number of goal cutting machines used	144
Total number of tons cut by machines	2,892,040
Number of fatal accidents.	14
Number of non-fatal accidents	68
Number of tons of coal produced to each fatal accident.	343,616
Number of tons of coal produced to each non-fatal accident	70,745
Number of persons employed to each fatal accident	457
Number of persons employed to each non-fatal accident	94
Number of mines using compressed air coal cutting machines	11
Number of mines using compressed air coal cutting machines	12
Number of mines using cable haulage.	4
	1
Number of mines using electric haulage.	56
Number of ventilating fans in the district	20
Number of shaking or mechanical screens at the mines	20

The output of coal for 1899 shows an increase of 884,936 tons or 22.5 per cent over 1898. The district is still about 750,000 tons short of its normal output. In Macoupin county the mines on the C. & A. R. R. did not work much over one-half time. The Consolidated Coal Co's, mines No. 10 Mount Olive,

and the Hornsby mine at Hornsby, only worked one-half time, owing to repairs being made at these mines. The Carlinville Coal Co's mine only worked 130 days, owing to the outer works at the mine being burned down; the loss in the county is about 350,000 tons for the year. The mines in Christian county, except the mine of the Taylorville Coal Co., only worked about one-half time, entailing a loss to the county of about 50,000 tons. Montgomery sustained a loss of about 50,000 tons, Sangamon county about 25,000 tons. Most of this loss of tonnage was caused by the coal companies at Pana and the companies on the C. & A. R. R. refusing to pay the scale price, of 40 cents per ton gross for mining.

Mine Fires.—At the Carlinville Coal Co.'s mine at Carlinville, on January 2, 1899, a fire broke out on the upper landing. The tower, screens, elevator bins and housing around the tower were all destroyed. The mine was working at the time. The men were safely taken out of the mine at the escapement shaft. A new plant has been erected on more modern principles very much superior to the old one.

At the Girard Coal Co's mine at Girard the machine and blacksmith and carpenter shops were destroyed by fire June 1, 1899. They have not been rebuilt at this time.

Escapement Shafts.—The Litchfield Mining & Power Co., of Litchfield, and the Edingburg Coal Co., of Edinburg, have finished their escapement shafts during the year. The Montgomery Coal Co., of Paisley, and the Citizens' Coal Co., at their "B" shaft in Springfield, will finish their escapement shafts in the near future. The Junction Mining Co., of Springfield, has made a through connection into the Black Diamond Coal & Tile Co.'s mine, which makes a second escapement for both of these mines. The Madison Coal Co., at its No. 5 mine at Mt. Olive, has made a through connection to the Consolidated Coal Co.'s No. 10 mine, which also makes a second escapement for both of these mines.

Improvements.—The Montgomery Coal Co., at Paisley, has put in a pair of first motion engines, also two boilers, with new engines and boiler houses. The engines and boilers were manufactured by the Litchfield Car & Machine Co., of Litchfield.

The Consolidated Coal Co., of St. Louis, Mo., have installed an electric haulage plant at their No. 10 mine at Mt. Olive during the year. A generator of 100-kilowatt power, with suitable engine power to run it, has been erected on the surface. The locomotive in the mine weighs 10 tons, and is 80 horse power, a four wheel, straight geared for 26-inch gauge, with a draw bar pull of 3,750 pounds, at a normal speed of 8 miles per hour. It is fitted with are lights and auxiliary kerosene lights. They have also introduced fifty 16-current pressure incandescent protected lamps into the mine. In introducing the plant, 6,400 feet of new track was laid of 30 and 35-pound rail. The plant was installed by the Link-Belt Co., of Chicago, Ill.

Electric Mining Locomotives.—The Duncan Foundry & Machine Works, Alton, Ill., have just shipped the Western Coal & Mining Co., for use in one of their mines, a mining locomotive of 3,000 pounds draw bar pull. This is the third locomotive the Duncan works have constructed for the coal companies.

The first two were small, weighing 2,000 pounds, with a drum and rope attachment which enabled them to drawloaded ears from rooms running to the dip in a pitching vein. The locomotive remains in the entry while the cars are hauled from the room face by the rope. By the use of clutches, the motor is thrown into gear with the driving axle or drum, or both, as desired.

The locomotive just shipped to Arkansas has an electric equipment furnished by the General Electric Co., consisting of 2-GE 61 motors, operated on a 250-volt line at a speed of 8 miles per hour. The locomotive exerts a draw bar pull of 3,000 pounds at full speed, and was designed by Mr. S. W. Farnham, mechanical engineer of the coal companies, to meet requirements in the coal companies' mines. Two similar machines are being constructed at Alton.

The entries in the southwestern mines are often low and narrow, requiring specially designed locomotives to operate in them to advantage. For gauges of 35 inches and upwards, the main frame of the locomotive is placed inside the wheels, the width of a 36-inch gauge locomotive over all being about 46 inches; the length, exclusive of bumpers, is 12 feet; the height above rail, exclusive of trolley, 42 inches. Motors with gear take up only 22 inches space along the axle. This enables a locomotive with frame outside the wheels to be constructed for track gauges as narrow as 24 inches.

The locomotive can be controlled from either end with equal facility, having a commutating switch, by means of which the motors can be used in parallel or series, as it suits the wish of the motorman to run at either full or half speed. In mine work, a series or parallel controller has often proved unsatisfactory, as on a bad track one pair of wheels frequently slip on the rails, and the motor without exerting any attractive effort produces a counter electro-motive force which prevents the other motor from doing work. It is generally necessary, therefore, to start the motors in multiple, and if half speed is required, the current can be cut off momentarily after the locomotive attains moderate speed and the motors thrown into series. Compactness has been the main object in view in designing these machines.

Prospective Mines.—The Madison Coal Co., of St. Louis, is putting down a hoisting and escapement shaft at Divernon, Sangamon county, on the line of the St. L., P. & N. R. R. Both shafts are being sunk at one time. This, when completed, will be one of the best plants in our State. A steel tower will be erected and all of the buildings used at the plant will be made fire-proof. The coal seam is on an average about 8 feet thick, having been proved by boring at a depth of 380 feet. Both shafts are made 9x18 feet in the clear. Iron stairways and platforms will be used for escapement in one compartment of the air or escapement shaft. The coal will be mined by electric coal cutting machines; the hauling done by electric motors. The mine will be opened out on the most approved principle for haulage and ventilation. The coal will be worked on the panel system. Everything is designed for a large daily output.

Fatal Accidents.—Arthur Jones, a single man, aged 19 years, died July 11, 1898, from an injury received in the Litchfield Mining and Power Company's mine, Litchfield. On July 8, 1898, Arthur Jones was taken into the mine by James and Louis Ramsey, for the purpose of seeing the mine, and see the miners work. James and Louis Ramsey, both being miners working in the mine, asked the mine manager to allow them to take Jones into the mine as they said they would look after him and see that he would come to no harm. The mine manager then allowed Jones to go into the mine. It appears that James Ramsey was setting props, and his son, Louis Ramsey, was sawing a prop and the boy, Jones, was sitting on a prop. A small piece of slate fell, striking Jones on the right side of his face. He did not seem to be seriously injured at first. James Ramsey and son took the boy out of the shaft and took him home. He died, however, July 11, 1898. The doctor stated that he died of hemorrhage of the brain.

Amos Howett, a miner aged 42 years, was killed July 16, 1898, in the Riverton Coal Company's No. 2 mine; his death was caused by the running away of a mule with an empty trip of cars. The cars jumped the track and striking Howett hurting him internally, from which he died in two days.

Thos. Price, a miner aged 47 years, was fatally injured July 18, 1898, in Spaulding Coal Company's mine, by a premature blast. The squib went off as soon as the light was put to it, which fired the shot. Price was struck by flying coal, from which he died in two days.

John Davis, a driver, aged 19 years, was killed September 2, 1898, in the Litchfield Mining & Power Companys' mine at Litchfield by being crushed between a car and a prop. He was driving through the pass-way from the fourth north entry to the third north entry. There was a slight grade. From some cause he had failed to sprag the car. At the foot of the grade the car jumped the track, crushing him between the car and a prop.

James Rafferty, aged 32 years, and Joseph Mayfield, aged 23 years, were found dead September 2, 1898, in the Capitol Coal Company's mine. Springfield. Rafferty and Mayfield were sent by the mine manager to clean out a portion of the air course on the main east entry. The air having become charged with black damp where they were working, which caused their lights to go out. The men were trying to get to the main intake entry, where there was fresh air. They made a mistake and turned into an abandoned entry which was densely full of black damp. The damp struck them down. They were found dead at a point about twenty feet within the mouth of the old entry, and about one hundred and fifty feet from the main intake air course.

Fritz Hubert, miner, aged about 50 years, was killed September 19, 1898, in the Consolidated Coal Company's No. 10 mine at Mount Olive. Hubert was riding in the cars to his work in the morning. In passing along the south entry, some top coal had fallen in the entry; the cars run up against the top coal lying on the track. The driver unhooked the mnle. Hubert and two other miners got out of the cars and passed over the fallen coal. From some cause Hubert turned back and was in the act of sounding the slate above where the coal had fallen. The slate came away very suddenly and caught him.

Pollitt Brown, a miner aged 38 years, was killed October 7, 1898, in the Assumption Coal & Mining company's mine at Assumption, by a fall of rock in the face of the Long Wall work. He was in the act of taking down some coal at the working face; there was a slip in the coal which passed up into the rock. When the coal was relieved from the slip the rock fell and caught him. The slip could not be seen from the face of the coal.

Andrew Malkis, a machine helper, aged 33 years, was killed Oct. 23, 1898, in the Taylorville Coal Company's mine, Taylorville. The machine runner had cut across the room and was working on the last cut, on the right hand side of the room. There was a large slip on the back of the coal that was being cut. About thirty tons of coal suddenly fell away and caught him as he was shoveling away from the machine, killing him instantly. It was said he had a wife and two children in Russia.

Oscar Flelling, miner, aged 58 years, was killed November 22, 1898, in the Consolidated Coal Company's No. 10 mine, Mount Olive. He was killed in the face of a room by top coal falling on him. Top coal had been left up for about seven feet back from the face of the room. The coal had been shattered by previous shots. Fleming was standing in a mine car prying off some coal left by the last shots at the face; when this coal fell it relieved the top coal, when it fell and caught him, pressing his head down on the end of the mine car, killing him instantly.

Louis D. Davis, engineer, aged 34 years, was found dead in the dynamo room of the Hillsboro Coal Company, Hillsboro. The dynamo room was in the rear of the engine room, where the hoisting engines were clocated. The engines were running away; had destroyed ropes, cages, etc. After the engines were stopped Davis' body was found near the pully wheel of the dynamo. His skull was fractured and life was extinct. After a week's session by the coroner's jury their verdict was that he came to his death from causes unknown to the jury.

Henry Smith, miner, age not known, was injured by falling slate in the Penwell Coal & Mining Company's mine at Pana, December 5, 1898. He was working in the face of a room. Some slate fell and struck him on the back and shoulders. He was taken to St. John's Hospital, Springfield, Illinois, for treatment where he died December 12, 1898.

Toby Gusti, miner, aged 50 years, was killed January 3, 1899, in the Barelay Coal and Mining Company's mine, Barelay. He was killed at the face of the entry by falling slate. He had prepared to set props to support the roof; he failed to do so until it was too late.

Paul Lafis, miner, aged 50 years, was killed May 16, 1899, in the Spaulding Coal Company's mine, Spaulding. He was killed at the face of a room by a premature blast.

Harvey Williams, miner, aged 25 years, was killed May 25, 1899, in the Springside Coal & Mining Company's mine, Pana. He was killed at the face of room No. 12 in the 1st north entry. There was a slip in the slate, also in the coal. He had set a prop under the slate, but too far back from the slip.

In taking the coal off the slip the slate came away and caught him. If the slip could have been seen, it is presumed he would have secured the slate by timbering under it.

Following will be found the tables of easualties and the statistical tables of the output by counties.

Respectfully submitted,

Alton, Illinois.

Walton Rutledge, State Inspector of Mines, Fifth District.

#### Fatal Casualties—Fifth District—July 1, 1899.

Date.	Name.	Age.	Occupation.	Residence. (Town)	Married.	Widow.	Children.	Single.	Dependints	Cause of Accident.
July 18 Sept, 2 2 2 0 Ct. 79 Nov. 22 Dec. 3	Amos Howett. Thos. Price John Davis. Jos. Rafferty Jos. Mayfield Pritz Hubert Pollitt Brown. Andrew Malkis Oscar Fleming Louis D, Davis Henry Smith.	47 19 32 23 50 38 33 58 34	Driver Laborer Miner Ma. Hel Miner Engineer	Spaulding Litchfield Springfield . Springfield Mt Olive Assumption Taylorville Mt. Olive Hillsboro	1 1 1 1 1 1 1	1 1 1 1 1 1 1	3 1 4 4 2 8	i	3 :425539 :	Premature blast Pit-car Black damp Black damp Falling rock Falling of rock Falling of coal Falling of coal Falling of coal
Jan. 3 May 10	Tobi Gusti	50 25	: -:::::	Spaulding Pana	1			i	1	Falling rock Premature blast Falling rock

Total fatal casualties-14.

### Recapitulation of Fatal Casualties -- Fifth District -- July 1, 1899 .

Residence.	No.	Occupation.	No.	Nature of Casulty.	No.	Colliery.	Νo.
Assumption. Barclay. Hillsboro. Litchfield Mt. Olive. Pana. Riverton. Springfield. Spaulding. Taylorville	1 1 1 2 2 1 2 2 1 1	Driver Engineer Laborers Mach. helper Miners	1 1 2 1 9	Black damp. Falling coal. Falling rock. Mine cars. Premature blast. Unknown.	2	A'smpt'n Coal & MCo Barelay Coal & M Co Capital Ceon CoalCo Consolidated Coal Co Hillsboro Coal Co. Litchfield M & P Co. Riverton Coal Co. Spaulding Coal Co. Sprinside Coal M Co. Taylorville Coal Co.	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Totals	14		11	_	14	`	1.

# Non-Fatal Casualties—Fifth District—July 1, 1899.

Date.	Name.	Ace.	Residence.	Married	Single.	Children.	Dependent	Character of Injury.	Time lost-
1898.	T 1 57 1							Dark industry	
uly 12.	John Vaughn Nick Heibert	35	A ssumption Hornsby			1		Back injured	
291	id rood Louise	100	Morseagua						
ing. 1	John Pritchard Wm Mct'aftrey	28	Hornshy	1		····i	3	Hand injured	
ep. 12	John Pritchard Wm. McCaffrey Fred Dyer	35	Mt. Olive			î		Head injured Hand injured Foot injured Arm broken Foot injured	
10	Jonn Fritchard Victor Singer	96	Stannton	1	- 0		3	Foot injured	
						î		Foot injured Leg broken Foot injured Ribs broken Face injured Legs injured Ankle injured Rib broken	
10	Jos, Arndt J. R. Morris Jos, Jarrek Louis Werler W. S. Jsby	19	Staunton	• • • •		1		Foot injured	
ov. 9	Jos. Jurick	25	Moweaqua			î		Face injured	
§	Louis Werler	15	Staunton			1		Legs injured	
15	Bert Merkle	25	Litchfield	1	2		2	Rib broken	
et. 21	Bert Merkle Rich Merchert H. M. Uriswell	21	Hillehoro			1		Hips injured	
ov. 23	tlarvey Alex'nder Frank Katson	13	Staunton	1		····i		Hips injured Body injured Head injured	
25	Frank Kaison	12	(11111	1	3		3	Body injured	
ug. 5	Frank Katson Jas. McEvoy Jac Kuel	52	Mt. Olive	1	····i		· · · i	Boly injured Arm broken Body injured Body injured Body injured	
ov. 21	Walter Moore Chas. Gaston Henry Johnson	22	Pana			1		Body injured	
oy. 21	Cnas. Gaston Henry Johnson	23	Pana			1		Body injured	
ec. 2	Tong Bernnette	21	Mt. Olive			1		Leg broken	1
16	Henry Johnson Tony Bernnette Fritz Muentach Ed Witten	26	Stannton Paisley		····i	1	····i	Leg broken. Body injured. Leg broken.	i
1899.									
an. 24	John Howells	17	Staunton			1		Body injured	
24	John Howells Foncy Scibert	32	Gillespie	1	2		2	Leg injured	1
eb. 6	Frank Oselett Virgit Bishop	125	Virden	1			····i	Arm injured Body injured	
17	Virgit Bishop Fred Becker	10	Staunton			- 1		Leg injured Legs injured Body injured	
23	John Keaves Felix Blusnik	25	Virden	1	6	····i	6	Body injured	
27	John Reaves Felix Blusnik Jas Puckett	. 1a	Litchfield			1		Leg bloken	1
tar. 4	A. Tone Wm. Loedeker	120	Moweaqua .			1		Face injured	
. 9	Osear Cartledge.	29	tallespie	1	2				
191	Peter Fagan	30	Assumption	i		1	9	Body injured. Leg injured. Foot injured Back injured Body injured	1
15	Frank Cartledge. Wm. McIntyre Wm. Stehline	52	Statiston	î	4		4	Foot injured	
16	Wm. Stehline Peter Willing	19	Gillespie	····i		1		Back injured	
. 21	Chs. L. Lisinberg	34	Nilwood	î	4		4	Ribs broken Leg broken. Head injured.	1
pril 5	Chs. L. Lisinberg Robt, McItvaney, F. A. Piper Frank Borg	30	Green Ridge		····i	1		Leg broken	:
24	Frank Borg	50	Mt. Olive	1	4		4	Ankle inmred	
	Curt Flemming Hes knoewmiller					1		Foot injuredBody injured	ŀ
26	Peter Ramnzauer	19	Staumton				4	Body injuredHand injured	
31	Oriver Campbell.	119	**			1			
	Orville Chapman Wm. Scheerschkl	145	Stannton	1	5	1	5	Body injured	
8	John Covel tas. W. McGee	37	Mt. Olive	1	1 2		2	Arm injured	
16	Fred Horn	21	Hornbsy	1				Body injured. Arm injured Leg broken Poot injured Arm broken.	
uly y	Fred Horn Robt. Watts	22	Ridgely			1		Arm broken	
	Ed Holvey Ed McGovern					i	11	Shoulder dislocated	
22	Cleo. Hartman	. 121	Springfield.			ı î		Arm broken	1
11 22	rring marwood	113	Starnes			1			
an L	Ed Upton J. J. Diffon, Jr	25	Springfield.			1		Arm broken Body injured Fingers injured	
77 19 Mah 19	J. J. Dillon, Jr	25	Auburn			1	ļ;	Fingers injuredHips injured	1
25	Arthur Vancill Thos. Ryan Fred Snyder Wm Thomas	30	Ridgely	1	1		1	Head injured	ŀ
								Leg broken	

Total number injured	65
Number, time lost not reported	5
Number reported losing time	63
Total time lost	2,792 days
Average time lost	41.3

# Recapitulation of Non-Fatal Accidents—Fifth District—1899.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery. N
Assumption. Auburn Barelan Güllespie Green Ridge Hillsboro Hornsby Littelhield Mt. Olive Moweaua. Nilwood Pana Paisley Ridgely Springfield Starnes Stannton Virden	4	Cager Drivers Gripper. Loovers Growers Mach, helper, Mach, helper, Mine exam'er, Miners, Picker Timberman Trappers Trimmers	1 24 1 1 4 7 4 1 1 20 1 1 22 2	Cages Drill Palling coal Falling coal Falling down shaft Falling flown shaft Falling from car. Falling rock Fire camp Flying coal Machine Machine chain Mules Pit cars Powder explosion Premature blast	2 1 10 1 1 1 14 1 1 1 1 1 1 1 2 2 2 2 3	Assumption Coal Co. Barelay Coal Co. Brelay Coal Co. Brelay Coal Co. Brelay Coal Co. Chicago Virden C. C. Citizen's Coal Co. Consolidated Coal Co Green Ridge Coal Co. Junction Coal Co. Junction Coal Co. Junction Coal Co. Montgomery Coal Co. Montgomery Coal Co. Montgomery Coal Co. Nilwood Coal Co. Silwood Coal Co. Sangamon Coal Co. Sangamon Coal Co. Springfield Co. C. Springfield Co. C. Syringfield Co. Starnes to al Co. Virden Coal Co. Virden Coal Co. Wabash Coal Co.
Tetal<	68		-6S	- 	-6S	

#### Table Showing the Nature of Injuries. Number of Persons Injured, Dependents, Time Lost, with Averanges and Percentages.

				ents.	Тіме	Lost.	t of
Naturelof Injuries.	Number	Married	Single.	Dependents	Total days.	Average days.	Per cen injurie
Ankles injured Arm sbroken Arm injured Backs injured Backs injured Body injured Collar hone broken Face injured Feet injured Feet injured Hands injured Hands injured Heads injured Heads injured Legs broken Legs injured Legs broken Legs injured Shoulder dislocated	2 2 3 17 1 1 3 6 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 2 1 7 1 1 1 3 3 2	1 3 10 2 5 1 3 2 1 4 3 10 10 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10	25 1 25 1 4 4 6 10 10 6	411 325 425 76 574 60 55 115 25 56 140 90 \$25 140 135 90	22 65 23 25 33.8 60 26 17.5 25 18.7 25 91,7 23,3 45 90	2.9 7.4 2.9 4.4 25 1.5 2.9 8.8 1.5 4.4 2.9 13.8 8.4 4.4
Total averages and percentages,	68	27	41	73	2,792	44.3	100.0

#### Calhoun County—Fifth District—1899.

				DE	SCF	RIPT	ion.		OUTPUT,				
Number.	Name of Operator.	Postoffice.	Depth of coul-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift,	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades		
1	Thomas P. Brick Co	Golden Eagle.		2.4	1	D.		М.	4, 118	4, 118			
	Totals								4, 118	4,118			
	Averages		••••										

Whole number of openings reported in 1898, 1. Whole number of openings reported for 1899, 1.

## Christian County—Fifth District—1899.

Number.				DES	SCF	HPT:	ιοΝ.		OUTPUT.			
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades	
3 4 5	Assumption Coal & M. Co Edinburg Coal Co	Paṇa	720 723 723 462	7.6 7.6 7.6	5 5 5	Sh.	s	M. B. M	55, 200 9, 450 43, 163 132, 689 76, 957 255, 000 572, 459	7, 200 21, 204 96, 163 46, 007 223, 000	2, 250 21, 959 36, 526 30, 950 32, 000	

Whole number of openings reported in 1898, 6. Whole number of openings reported for 1899, 6.

#### Calhoun County, 1899—Concluded.

		VALUES.			Employes.			mth.	ii.	ring			CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross t hand mining.	Paid monthly, semi-mont ly or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or nemployed in or about mine.	Non-fatal.
1	\$1 50		\$6, 177	8	12	20	*	М.	261	\$6,177	112	4	
			\$6,177	S	12	20				86, 177	112	4	
	\$1 50								261	·····i			

<sup>\*</sup> Price of machine mining 4,118 tons, 25 cents per ton.

# $Christian\ County,\ 1899{\rm-Concluded}.$

		VALUES.			PLOYE	s.	ton-		i.	d during emyloyés help.		or mules		CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-monthly by or weekly.	Days of active operation.	Total wages paid du the year to all emyl excepting office help.	Kegs of powder used.	Number of horses or memployed in or about mine.	Fatal.	Non-fatal.
1 2 3 4 5 6	\$1 10 1 00 65 65 65 65 75	\$0 50 50 25 25 25 25 45	\$50,784 8,325 19,272 71,637 37,642 181,650	147 15 75 88 90 155	25 13 94 75 32 70	172 28 169 163 122 225	\$0 52.5 40.7 25 25 25 25 *	s-M.	168 200 91 217 170 250	\$48, 220 7, 320 23, 230 59, 050 42, 000 127, 000	100 294 178 776 300 1,200	10 3 6 24 9 22	1 1 1 1	2 4 
	\$0 7 <b>1</b> .7	80 32.9	\$369,310	570	309	879	\$0 29		183	8306, 820	2,848	74	1	6

<sup>\*</sup> Price for machine mining 255,000 tons, 30 cents per ton.

## Greene County—Fifth District—1899.

			DESCRIPTION. OUTFIT.	OUTFIT.				
Number:	Name of Operator.	Postoffice.	Depth of coal—feet.  Thickness of coal—feet and inclus. Geological No. of scam Shaft, slope or drift Steam, Lorse or land power	Tons of other grades				
23 4 5 6 7	J. T. Revis, lessee. E. Griffiths, No. 1. Thos, Griffiths, No. 2. Hudson, Tucker & Co. (L) Jas, Little Ed Axley Alvirda Smith Totals Averages	Whitehall	50     2.6     1      2.200     2.201     2.200       47     *      4.100     4.10       50     *      1.200     1.20       60     2.6     1      800     80       25     2.6     1      600     60       20     2.6     1     81     120     12       120     12     12     12     12       14,370     14,370     14,370     14,370	0				

<sup>\*</sup> Pocket coal, cannel and bituminous.

Whole number of openings reported in 1898, 6.

Number of new mines or places opened during the year, 3.

Number of mines exhausted or abandoned during the year, 1.

Wnole number of openings reported for 1899, 8.

#### Jersey County-Fifth District-1899.

				DES	CR	IPT:	ion.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4 5	Frank Hubener. Ed Springman. Andy Williams, lessee. M. Fitzshimons John Kreps Rich Motley Totals Averages.		24 20 25 25 26 25	3.6	5 5 5 5	Sh. D. Sh. D.	Ho. Hd  Ho. Hd	М. ::	900 480 750 520 1,200 200 4,050	480 750 520 1,200 200	

Whole number of openings reported in 1898, 1.

Number of new mines or places opened during the year, 5.

Whole number of openings reported for 1899, 6.

# Greene County, 1899—Concluded.

		VALUES.		Ем	- PLOYE	s.	ton -	onth-	ii.	d during employe's help.		or mules bout the	Acc
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation	Total wages paid du the year to all emple excepting office help.	Kegs of powder used.	Number of horses or mi employed in or about mine.	Fatal.
1 2 3 4 5 6 7 8	\$1 25		\$3,875 2,750 5,125 1,500 2,813 1,000 7,500 150	7. 5 12. 4 6 4; 3 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 6 13 5 7 5 4 2	\$0 62 <sup>1</sup> 2 51 <sup>1</sup> 4 62 <sup>1</sup> 2 62 <sup>1</sup> 2 81 <sup>1</sup> 4 81 <sup>1</sup> 4 81 <sup>1</sup> 4	S-M.	205 220 225 150 200 150 220 90	\$3,000 2,200 4,500 1,200 2,000 750 600 120		1 1 1 1 1 1 1	
4.1			\$17,963	43	71	50			[	\$14,370.			
	\$1 25						80 70		183				

# Jersey County, 1899—Concluded.

		VALUES	š.	Ex	(PLOY)	ES.	E 0	onth-	ä	during uployés Ip.		mules at the	A	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or memployed in or about mine.	Fatal.	Non-fatal.
1 2 3 4 5 6	\$1 50 1 50 1 50 1 50 1 50 1 50		\$1,350 720 1,125 780 1,800 300	4 2 3 3 4 2 	1 1 2	5 2 3 3 5 2	\$0 87 5 \$7.5 \$7.5 87.5 87.5 87.5 87.5	s.M.	150 130 150 160 150 160	\$1,000 600 850 650 1,500 250		1 1 1	::	
	<b>\$1</b> 50						80 87.5		150					

# ${\it Macoupin~County-Fifth~District-1899}.$

				DES	CF	IPT	ion.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
8 9 10 11 12 13 14 15 16 17 18 19 20	" Hornsby Wm. Neal & Co. lessee. Carlinville Coal Co. Nilwood Coal Co. Greenridge Mining Co. Girard Coal Co. Virden Coal Co. Chi-Virden Coal Co., 1. Madison Coal Co., 5. Sam Curtis. J. T. Harbaugh. Thos. Rand. Robt. McCormiek W. H. A. Bodil. C. Lueking. R. R. Davis.	Mt. Olive Gillespie Hornsby Bunker Hill. Carlinville Nilwood Greenridge Girard Virden Mt. Olive Rockbridge Chesterfield Fosterburg Chesterfield	322 360 410 431 355 388 250 290 325 350 320 435 55 50 50 75 10	8 8 7 6.6 6 6 6.6 7.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	555555555555555555555555555555555555555	Sh	St.	M. B. M. B. M	* 271, 664 * 160, 104 * 225, 419 * 150, 934 * 113, 907 * 70, 314 * 7, 220 34, 696 13, 386 * 83, 425 82, 970 * 101, 422 * 268, 077 110 80 120 140 140 150 160 160 170 180 180 180 180 180 180 180 180 180 18	66, 398 50, 928 59, 772 212, 067 610 110 80 120 1, 440	40, 697 61, 497 46, 527 26, 278 15, 140 2, 266 15, 654 2, 466 21, 399 17, 027 32, 042 41, 656 56, 010
	Totals				٠				1,040,074	1, 155, 705	457,97
	Averages				• •						

Whole number of openings reported in 1898, 20.

Number of new mines or places opened during the year, 1.

Whole number of openings reported for 1899, 21.

<sup>\*</sup> Machine mined at 33 cents per ton.

# Macoupin County, 1899--Concluded.

ſ		VALUES	s.	Ex	IPLOYI	ES.	i ton	onth-	ġ.	rring		t the	ACCI-
Manufact.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per screened ton —hand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Non-fatel
1 23 1 5 6 7 8 9 0 1 2 3 1 5 6 7 8 9 0 1	\$0 90 90 90 90 95 95 1 12.5 75 75 75 75 1 25 1 25 1 25 1 25 1 25 1 25	\$0 90 30 30 30 30 35 35 35 32 22 55 30 30 30 30 35 35	\$198, 701 119, 675 105, 979 107, 928 92, 145 57, 743 6, 235 22, 626 8, 979 32, 567 54, 907 47, 809 54, 335 189, 257 763 1, 800 1, 800 1, 200 1,  150 99 118 130 84 64 8 60 100 100 170 160 4 1 1 1 1 6 4	87 101 122 86 18 42 5 23 11 125 57 28 76 60	237 200 210 210 132 106 13 51 125 157 128 220 5 1 1 1 6 6	\$0 40 40 40 75 75 75 75 75 75	S-M	238 230 228 172 236 179 240 130 110 93 167 126 263 140 75 70 80 120 150 60	\$118, 789 81, 593 101, 023 101, 023 74, 777 64, 450 41, 675 6, 000 24, 449 8, 990 48, 260 49, 253 48, 369 62, 000 119, 107 600 75 110 1, 600 1, 600 1, 600 1, 600	72 1,062 425 1,875 1,399 1,965 1,301 1,035	15 . 10 . 20 . 10 . 5 . 10 . 21 .		
	\$0 85.9	\$0 31	\$1, 163, 479	1,401	774	2, 175	\$0 40.6		157	\$849,621	13,914	231	2 3

# $Montgomery\ County-Fifth\ District,\ 1899.$

				DES	CR	IPTI	ON.		(	OUTPUT,	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2345	Coffeen Coal & Coke Co. Hillsboro Coal Co. Litchfield M. & M. Co. Litchfield M. & P. Co. Montgomery Coal Co. Wm. Jamison & Co. (L)	Hillsboro Litchfield Paisley Raymond	440 500 684 534 434	7.6 3.6 8 3.3	5	Sh.	St	В. М. В.	125,000 *127,035 5,820 52,020 40,036 †4,290	76, 221 4, 200 36, 414 24, 540 3, 218	50, 814 1, 620 15, 606 15, 496 1, 075
	Averages										

Whole number of openings reported in 1898, 6.

Whole number of openings reported for 1899, 6.

 $^{\ast}$  Mined by machine at 33 cents per ton.

† Mined by machine at 50 cents per ton.

#### Morgan County—Fifth District, 1899.

				DES	SCI	HPT:	юх.			Эптрит.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal— feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1 F	r. Wagstaffe V. r. Fisher	Murryville	70 26	1.6 1	5	Sh.	Họ.	M.	3, 200 1, 600	3, 200 1, 600	
	Totals								4,800	4,800	

Whole number of openings reported in 1898, 1.

Number of new mines or places opened during the year, 1.

Whole number of openings reported for 1899, 2.

# Montgomery County, 1879.—Concluded.

		VALUES		Ем	PLOYES	s.	ton	month	i	ring		mules out the		CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employes.	Price paid per gross thand mining.	Paid monthly, semi me ly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3 4 5 6	\$0 75 75 1 00 80 75 1 50	\$0 40 40 50 40 25 30	\$76, 250 77, 491 5, 010 35, 374 22, 279 5, 149	125 75 20 70 47 8	69 40 15 22 15 5	194 115 35 92 62 13	\$0 40 48 40 35	S.M.	280 271 90 180 198 260	\$72,532 74,220 5,000 30,210 21,910 4,000	3, 300 1, 007 1, 860 200	18 11 2 6 3	1 i	 5 1
	so 78	\$0.38	\$221,553	345	166	511	\$0 39.31		213	\$207, 871	6, 367	40	2	7

# Morgan County, 1899.—Concluded.

		VALUES		E	IPLOY	ES.	ton-	onth-	on.	d during employés help.		s or mules about the		CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid duthe year to all emplececepting office help.	Kegs of powder used.	Number of horses or n employed in or abou mine.	Fatul.	Non-fatal.
1 2	1 50		\$4,800 2,400 87,200	7 4 11	2	8 5 13	\$0 \$7 <sup>1</sup> 2 87 <sup>1</sup> 2 \$0 87.5		225 210  218	\$3,700 2,000 \$5,700		1 1 2		

# Sangamon County—Fifth District, 1899.

							ion.		,	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Auburn Coal Co	Barclay Cantral Chatham Dawson Lies Junction Springfield Pawnee P, Plains Bissell Riverton Spaulding Springfield Riverton Springfield Springfield Springfield Williamsville Saulsbury Springfield Soringfield	245 150 269 150	675.499 55.996.699 55.999 56.9	555555555555555555555555555555555555555	Sh	S	B.	15, 304 102, 457 86, 933 100, 916 118, 150 107, 631 116, 170 68, 501 89, 065 62, 250 91, 864 24, 723 131, 752 77, 199 78, 493 131, 752 70, 497 111, 168 111, 168 131, 168 165, 790 1, 200 2, 983, 572	11, 050 50, 210 74, 227 78, 080 70, 343 91, 010 50, 414 60, 000 6, 675 6, 438 46, 688 139, 693 85, 191 21, 776 6, 405 85, 582 88, 75 88, 75 88, 75 88, 75 88, 77 88,  52, 247 12, 696 22, 836 6, 050 37, 288 25, 160 18, 087 20, 000 2, 225 3, 219 15, 562 6, 673 26, 962 27, 938 17, 624 15, 185 42, 683 43, 146 12, 054 18, 200	

Whole number of openings reported in 1898, 25.

Number of new mines or places opened during the year, 1.

Whole number of openings reported for 1899, 26.

# Sangamon County, 1899.—Concluded.

		VALUE	is.	Ем	PLOY	es.	ron-	onth-	n.	ring loyés		or mules about the		CCI-
Number.	Average value of hump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employés.	Price paid per gross ton hand mining.	Paid monthly, semi-monthly ly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 15 22 23 24 25 26	\$0 80 70 80 70 50 80 80 80 80 80 85 75 75 75 75 75 75 80 90 82 82 82 82 82 82 82 80 78 78 78 78 78 78 78 78 78 78 78 78 78	\$0 20 30 40 40 40 40 40 50 50 35 40 49 40 40 50 50 50 49 40 40 40 40 40 40 40 40 40 40	\$0, 691 50, 821 50, 821 64, 498 63, 135 64, 135 64, 148 64, 155 62, 872 47, 566 6, 919 39, 685 139, 916 170, 822 181, 617 190, 940 64, 135 64, 136 64,	199 157 190 30 86 90 85 5 5 24 163 75 20 95 5 90 100 80 80 163 70 100 100 80 100 100 100 100 100 100 100	643255277993252559199321199311911911911911919191919191919	255 200 115 97 39 118 109 116 69 204 98 32 138 143 144 141 150 68 3 3 2,507	\$0 40 40 .7 40 .7	S-M.	220 103 247 275 144 209 193 160 200 235 204 248 229 197 190 216 220 226 226 236 217 256 206 217 256 256 256 256 256 256 256 256 256 256	\$5, 322 50, 0000 57, 842 12, 600 63, 700 64, 700 6, 000 6, 000 6, 237 3, 270 113, 950 61, 020 114, 900 54, 000 54, 000 56, 000 57, 000 58, 000 58, 000 59, 000 50,	3, 574 2, 472 2, 965 2, 965 1, 992 7, 470 3, 672 4, 957 3, 574 2, 858 4, 3705 4, 744 3, 632 1, 720 40	12 17 7 15 2 3 7 17 10 5	 1    2    	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

#### Scott County—Fifth District—1899.

				DES	CF	RIPT	ion.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal—feet.	of c	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1 2 3 4	Wm. H Bates & Co	Alsey	40			Sh. D.	S. Hd	В.	18,715 402 720 780 20,617	17, 990 402 720 780 19, 892	

Whole number of openings reported in 1898, 5.

Number of mines exhausted or abandoned during the year, 1.

Whole number of openings reported for 1899, 4.

# $Shelby\ County-Fifth\ District-1899.$

Name of Operator.   Postomee.   State   Stat				Description.					Оптрит,		
2 John Richardson	Number.	Name of Operator.	Postoffice.	of coal-	of coal inches.	slope or dr	horse or	or	tons pro-	of lump	Tons of other grades
Averages	2 3 4 5	John Richardson M. Brophy B. F. Stretch Samuel Igo John H. Galligher John Stockdale	Shelbyville  Mode Robinson Cr'k	90 90 100 60 60 45	2.3 15 2.3 15 2,3 15 2.3 15	5 5 D.	Ho.	м.	2, 250 1, 696 720 522 1, 620 320	2, 250 1, 696 720 522 1, 620 320	

<sup>\*</sup> Both.

<sup>†</sup> Mined by machines 49,081 tons, at 25.5 cents per ton.

Whole number of openings reported in 1898, 8.

Number of mines exhausted or abandoned during the year, 1.

Whole number of openings reported for 1899, 7.

## Scott County, 1899—Concluded.

		VALUES.		EM	1PLOY1	ES.	ton-	onth-	i	ring		the	ACC
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	powder us	Number of horses or mules employed in or about the mine.	Fatal.
1 2 3 4	\$1 30 1 50 1 50 1 50  \$1 32	\$0 50 	\$23,750 603 1,080 1,170 \$26,603	35 2 4 3 	9	44 2 4 3 53	\$0 80 1 00 1 00 1 00 1 00  \$0 81.8	S-M.	302 126 220 240 	\$20, 130 500 800 1, 000 \$22, 429			

## Shelby County, 1899—Concluded.

		VALUES	з.	Ex	IPLOYE	s.	ten-	nth	ığ	oyés		or mules	A DE	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or nemployed in or abou	Fatul.	Non-fatal.
1 2 3 4 5 6 7	\$1 05 2 25 2 25 2 25 2 25 2 25 2 25 2 25	80 48	\$80, 329 5, 063 3, 816 1, 620 1, 175 3, 645 720	80 10 4 4 3 4 2	61 1 1 1 1 1	141 11 5 5 4 5 2	\$0 42.5 1 37.5 1 37.5 1 37.5 1 37.5 1 37.5 1 37.5	S-M.	275 218 220 150 200 210 160	\$61,408 4,000 3,000 1,200 800 3,000 600	2,800 2 1	9 1 1 1 1		5
			\$96,368	107	66	173				874,008	2,805	13		5
	\$1.18	80 48 .					80 54.4		205					

## Recapitulation by Counties--

		M	NES				1	Products			v	ALUES.
Counties.	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	Total tons produced.	Tons of lump coal.	Tons of other grades.	Tons shipped.	Tons consumed or wasted at the mines.	Average value per ton of lump at the mines	Average value of other grades per ton at the mines.
Calhoun	1		1			4, 118	4,118				\$1 50	
Christian	6	6				572, 459	432, 214	140, 245	483, 760	38, 329	0 74.7	\$0 32.9
Greene	8		8	3	1	14,370	14,370				1 25	
Jersey	6		6	5		4,050	4,050				1 50	
Macoupin	21	13	8	1		1,646,674	1, 188, 703	457,971	1, 413, 611	158, 069	0 85	0 31
Montgomery .	6	5	1			354, 201	219, 593	134,608	298, 131	13,506	0 78	0 38
Morgan	2		2	1		4,800	4,800				1 50	
Sangamon	6	5	1	1		2,083,572	1, 527, 578	555, 994	1,794,636	61,238	0 78.7	0 36.1
Scott	4	1	3		1	20,617	19,892	725	16, 590	500	1 32	0 50
Shelby	7	1	6		1	105, 765	64, 993	40,772	88,507	3,812	1 18	0 48
Totals	87	51	36	11	3	4,810,626	3,480,311	1, 330, 315	4,095,235	275.454		
Averages.											so 8215	80 3456

Whole number of openings reported in 1898, 79.

Number of new mines or places opened during the year, 11.

Number of mines exhausted or abandoned during the year, 3.

Whole number of openings reported for 1899, 87.

Fifth District—1899.

	E	IPLOY	ES.	ys of	per	uring oyés	wder	Pur Pur	Casua	LTIES		Maci	HINES.
Aggregate value of total product	Number of miners.	Number of other cm- ployés.	Total employés.	Average number of days of active operation.	Average price paid per gross ton for hand mining	Total wages paid during the year to all employes excepting effice help.	Number of kegs of powder used.	Number of horses mules employed in about the mines.	Killed.	Injured.	Number of mines using machines.	Number of machines in use.	Total tons cut by machines.
\$6, 177	,	12	20	261		86, 177	112	4			1	2	1, 115
369, 310	570	309	579	183	80 29	306, 820	2,545	74	4	6	1	14	* 255,000
17, 963	43	7	50	183	0 70	14, 370		4					
6,075	18	2	20	150	0 87.5	4,850		3					
1, 163, 479	1,401	774	2, 175	157	0 40.6	849, 621	13,914	231	2	37	10	115	†1, 452, 516
221, <b>5</b> 53	345	166	511	213	0 39.3	207, 871	6, 367	40	2	7	2	7	131,325
7, 200	11	2	13	218	0 87.5	5,700		2					
1, 403, 392	1,874	633	2,507	210	0 40.7	1, 174, 119	73, 925	216	6	13			
26, 603	14	9	53	222	0 81.8	22, 429	785						
96, 368	107	66	173	205	0 54.4	74,005	2,805	13		5	1	6	49,081
\$3, 318, 120	4,421	1,980	6,401			\$2,665,965	100756	621	14	65	15	141	1, 892, 040
				190	\$0 40.3			· · · · · ·					

<sup>\*</sup> Price paid for machine mining, 30 cents per ton.

<sup>†</sup> Price paid for machine mining, 33 cents per ton.

<sup>‡</sup> Price paid for machine mining, 25.5 cents per ton.

Average price paid for machine mining for the district, 32.4 cents per ton.



#### SIXTH INSPECTION DISTRICT-1899.

Counties: St. Clair, Madison, Clinton, Marion, Bond,

John Dunlop, Inspector, Centralia.

HON. DAVID ROSS, Secretary,

State Bureau of Labor Statistics, Springfield, Ill.:

SIR:—In compliance with section 12 of the general mining law of the State of Illinois, I have the honor to submit to you the fourth annual report of the Sixth Inspection District for the year ended June 30, 1899, comprising the coal producing counties of St. Clair, Madison, Clinton, Marion and Bond.

This report gives tabulated statements by counties of the number of mines operated during the year, showing the average number of miners and other employés; the total output of all grades of coal; the average value of coal at the mine, and the aggregate value of total product; the number of shipping and local mines; the casualuties in and around the mines; the average number of days worked; the quantity of powder used; the number of machines in use, and the total tons produced by machines.

The following summary, as taken from the statistical tables, is given for the year 1899:

Number of counties in which coal is produced.	5
Total number of mines	104
Shipping mines	72
Local mines	32
New mines	13
Abandoned mines	- 7
Total tonnage	4, 283, 258
Tons of lump coal	3, 294, 077
Tons of other grades	989, 181
Tons shipped.	3, 673, 703
Average value of lump coal per ton at the mine	80.7169
Aggregate value of total product	82, 653, 912
Number of miners	3,583
Number of other employés.	1,425
Total employés	5,008
Average number of days of active operation for all mines	196.8
Number of kegs of powder used.	68, 883
Fatal accidents.	22
Non-fatal accidents.	92
Number of widows	14
Number of orphans	38
Number of fillnes using machines	23
Number of machines in use	144
Total tons cut by machines.	2, 169, 954
Number of tons produced to each fatal accident	194,694
Number of tons produced to each non-fatal accident	46, 557
Number of persons employed to each fatal accident	228
Number of persons employed to each non-fatal accident	54

Coal production by counties, with increase or decrease in each year for the years ended June 30, 1898, and 1899:

	Total Output of of Coal in	f all Grades Tons.		
Counties.	1898.	1899.	Increase.	Decrease.
St. Clair Madison Clinton Marion Bond	1,403,977 434,735	1,600,752 630,769 417.594 714,513 96,314	773, 208 17, 151	220,396
Total	4, 283, 258	3,459,932	1,043,722	220, 396
Increase				1,043,722 220,396
Net increase				823, 326

The counties of St. Clair, Madison, Clinton and Bond show an increase of 1,043,722 tons over the output of last year, and Marion shows a decrease of 220,396 tons, leaving the net increase for the district 823,326 tons, or 23.8 per cent.

The reason for the decrease in Marion is that the general strike of 1898 continued until December at Centralia, and at Sandoval to January 8, 1899, when work was resumed.

The number of days lost on account of strikes at the above named places was 266, and 20 days were lost at Oden. At the present time the district is free from strikes, and the indications are that the year now entered on will show a large increase in production.

During the last year the production of coal cut by machines has increased 20 per cent. This increases due to the change of mining machines being placed where drills were formerly used, with one exception. Also the number of machines being put in at other mines has increased 20 per cent over that of last year, and so long as present conditions remain the tendency is that each year will see more machines being put in. The reason for this apparent tendency is that section 1 of an act providing that all coal mined shall be paid for is being complied with throughout the entire district.

The percentage of fine coal produced by machines varies from 20 to 30 per cent. The percentage of fine coal produced by shooting off the solid varies from 33 to 45 per cent.

From these figures it wil! be seen that the amount of saleable coal from machines is increased 15 per cent. Added to this the differential allowed varies from 17 to 19 per cent. With this enhancement in favor of machines, it will be seen that the time is not far distant when machines will be adopted in all mines that produce coal for commercial purposes.

Improvements.—The schedules will show a small amount of coal taken out at New Baden and Germantown, Clinton county. The shaft at New Baden is only 6x9 feet; it is intended for an escapement shaft. It is expected

that work will be commenced on the main hoisting shaft during September. The Germantown Coal Co. has recently built up the top works at its mine and has commenced shipping coal.

The Henrietta Coal Co., now known as the Penny Coal company, has put down an escapement shaft and is making preparations to put a fan at the top of the same. The company has also equipped its mine with electric mining machines, installed by the Morgan & Gardner Electric company. The machines are now working at a great disadvantage; the roof, which is soapstone varies in thickness from 6 inches to 2 feet and is very brittle, requiring props to be placed close to the face of the coal.

The following companies have put electric machines in their mines: The Tirre & Sons Coal Co., Lenzburg; the Johnson Coal & Mfg. Co., Marissa; and the Hippard Coal company, Belleville, all in St. Clair county. The Sorrento Prospecting and Mining company, Sorrento, Bond county, has added to its plant two electric mining machines, put in by the Link-Belt Electric company. The Conrad Reinecke Coal company, Belleville, has replaced drills with electric cutting machines, put in by the Jeffrey Electric company.

The Missouri & Illinois Coal company has put in three mining machines in the mine at Wilderman, where formerly air drills were operated.

The Kalb Coal Co. of Mascoutah, has put in four mining machines where it formerly had air drills.

Escapement Shafts.—The following escapement shafts have been put down during the year: The Trenton Coal, Light & Power company, Trenton, Clinton county, and the Hydraulic Press Brick company, known as the Independent Coal Co., Collinsville, Madison county.

The sinking of the escapement of the Kinmundy Coal company, Kinmundy, Marion county, is still in operation. The depth at present is nearly 700 feet.

The following escapement shafts caved in, owing to the severe winter, and the shaft timbers being a little decayed, but all have been reopened: the escapement shaft at Zildolph's mine, Marissa, St. Clair county, and one at the Brookside mine, Troy, Madison county, both owned by the Consolidated Coal Company.

New Mines in Contemplation.—The St. Louis & O'Fallon Coal company has sunk a main and escapement shafts. It is located in what is called "Nigger Hollow," one and a half miles northeast of Birkner, St. Clair county. The size of the main shaft is  $7^{1}_{2} \times 15$  feet, and the escapement shaft  $5\times 10$  feet. This is the Belleville seam known as Number 6.

The company is at present grading railroad bed to the mine and has possession of a right of way between East St. Louis and the mine.

The Donke Bros. Coal & Coke Co., Belleville, St. Clair county, has started to sink a shaft. The size is 9x18 feet in the clear. It is the intention to equip it with all the modern and latest improved machinery, steel top works and electric mining machines, and to place their coal in the market over their own railroad. The shaft is located nearly two miles west of Collinsville, Madison county.

Fatal Accidents.—July 15, 1898, John Radenacher was instantly killed by a fall of slate in the Mt. Olive and Staunton Coal company's mine, Staunton, Madison county. Deceased was 32 years of age and leaves a widow and five children.

August 29, 1898, Louis Byman, a miner, working in the Heinz Bluff mine of the Consolidated Coal Co., Collinsville, Madison county, was killed by falling clod. There were three men working in one place and they had three cars to load. The two cars on the inside were loaded and the car on the outside was left unfinished. They then started to take down a piece of loose clod, but as they heard the driver coming for their cars, they started to finish loading the outside car. The deceased went underneath the loose clod, when it gave way, falling on him. His age was 33 years; he leaves a widow and one child.

September 19, 1898, John Stiff, a miner in the Pittsburg mine of the Consolidated Coal Co., Belleville, St. Clair county, was injured internally by falling slate, and died three hours afterward from the effects of the same. He was 18 years of age and single.

October 5, 1898, Ben Anderson, a miner in Madison No. 3 mine, of the Madison Coal company, Edwardsville, Madison county; while working at the face of his room a piece of clod weighing nearly 1,000 pounds gave way and fell on him, killing him instantly. He had only been in this mine three days; his age was 36 years; he leaves a widow and three children.

October 10, 1898, Ed. Floyd, a cager at the Independent Coal company's mine, Collinsville, Madison county, was standing at the bottom of the shaft waiting for the cage to land. A driver coming out to the bottom on the other side of the shaft cried "Look out for that car!" Floyd started to cross the bottom when the cage landed on him, fracturing his back. He was taken to a hospital in St. Louis, where he died June 10, 1899. He was 35 years of age and single.

October 12, 1898, John Kolar, a miner in the Heinz Bluff mine, of the Consolidated Coal company, Collinsville, Madison county, was working at the face of a room, loading coal, when a piece of clod gave way which fell on him, causing instant death. His age was 46 years; he leaves a widow and one child.

October 24, 1898, Frank E. Bayer, a top laborer, was killed at the Home Trade Coal company's mine, Edwardsville, Madison county. A car had been taken off the cage at the lower landing. After it was emptied the deceased started to push the car back on the cage, but got on the wrong track, and not taking any notice he pushed the car into the shaft, and was dragged down with it, causing his death. A bar was used for the purpose of closing the entrance to the shaft, but this had been taken down and deceased forgot to replace it. His age was 24 years. He leaves a widow and one child.

October 27, 1898, Nick Loquitt, a miner in the Darrow mine of the O'Fallon Coal and Manutacturing Co., St. Clair county, was injured by falling soapstone; he was mining a shot in the top coal; the roof was known to be dangerous, and he was advised by the mine examiner to use extra precaution while mining. The soapstone gave way, falling on its outer edge, then fall-

ing on him, squeezing him against the coal. He died 18 hours afterward. There were no bones broken and the attending physician said his death was caused by heart disease.

November 17, 1898, John W. Reed, check-weighman at the Madison Coal company's No. 3 mine, Edwardsville, Madison county, was killed by falling down the shaft while with the top man on the ground landing. The engineer hoisted the cage with a loaded car; there being no one to put in stops for the cage to rest on, the engineer put on brakes, also steam to prevent it from lowering. The two men, going to the top landing, found the cage on a level with the floor. The top man, being first, went to the front end and put down the keeper. The deceased was at the rear end and began to push the ear, when the front end went off the cage. The cage then started upward and the car fell back into the shaft, carrying the deceased with it. He was found lying inside of the empty car, dead. His age was 53 years, and he leaves a widow and one child.

November 18, 1898, Thomas Taylor, mine manager at Joseph Taylor's mine, O'Fallon, St. Clair county, was instantly killed by falling roof. A squeeze was on in a part of the mine and he went to examine where the roof had come down. He was on top of the rock when another piece fell on him. No one was present but his son, who could not lift it off, and by the time help arrived he was dead. Diseased was 55 years of age and leaves a widow and three children.

December 5, 1898, George Lowry, a loader, was killed in the South mine, operated by the Centralia Mining & Mfg. Co., Centralia, Marion county, by a fall of slate while working at the face, loading a ear. A hole had been drilled in the right hand corner and had pierced the roof, striking a slip in the slate. This being unknown, deceased was working inside when it gave way, killing him and injuring his partner. His age was 25 years, he leaves a widow and two children.

December 19, 1898, Joseph Straubinger, a miner in Conrad Straubinger's mine, French Village, St. Clair county, was instantly killed by falling drift coal. He was 31 years of age and single.

December 27, 1898, Frank Schindler, a miner working in the Mount Olive & Staunton Coal Co's mine, Staunton, Madison county, was killed by falling clod; he was wedging down a piece of clod and had only struck the wedge two blows when it fell striking edgewise on the floor, then rolled over onto him. He lived only a few hours. Deceased was 43 years of age, and leaves a widow and seven children.

January 12, 1899, Frank Houlle was engaged as top boss at the No. 2 mine of the Madison Coal Company, Glen Carbon, Madison county. In moving a railroad car, loaded with lumber, which had a defective brake, unknown to him until after it was started; deceased ran forward to a coal car immediately in front of the lumber car, to set the brake; while doing so the car with lumber bumped against the coal car knocking him off to the ground between the rails, with his right leg across the rail; before he could recover himself the front wheel passed over his leg about the knee, making amputation necessary; he died during the operation. He was 23 years of age and single.

January 19, 1899, Adolph Beible, a miner, working in the Rentchler mine of the Mo. & Ill. Coal Company, Belleville, St. Clair county, was seriously injured by a prop which was knocked out by falling coal at the face of his room: he died about two hours afterward. Deceased was 29 years of age, married, and leaves a widow.

January 23, 1899, William Hopper, a machine helper, working in the Mount Olive & Staunton Coal Company's mine, Staunton, Madison county, had his left leg caught in the chain of the mining machine while in motion, mashing it so that amputation was deemed necessary. Death resulted the next day, half an hour after the amputation. He was 24 years of age and leaves a widow and two children.

January 28, 1899, August Phillips, a miner working in the No. 4 mine of the Madison Coal Co., Glen Carbon, Madison county, in shooting the coal down the day before, props were knocked out, which should have been replaced before commencing to load coal, as it was known that the roof was dangerous. Deceased wanted to load some coal before doing so, when the roof gave way, falling on him causing his death. He was 22 years of age and numerical.

February 2, 1899, William Fickert, a miner working in the Mount Olive & Staunton Coal Company's mine, Staunton, Madison county, was killed by a fall of slate at face of his room. His age was 50 years; he leaves a widow and six children.

March 18, 1899, James Dubes, a miner, working in the Henrietta Coal Co's mine, Edwardsville, Madison county, was killed by falling coal. He and his partner were wedging coal down; they were on their knees doing this work when a piece of coal fell off the face of the room on deceased, rupturing a blood vessel; he died the next morning at three o'clock. His age was 34 years, and leaves a widow and two children.

March 29, 1899, Angelo Biado, a miner, working in the No. 4 mine of the Madison Coal Co., Glen Carbon, Madison county, was killed by a pit car. He was on his way home after his day's work. While traveling out the entry near the bottom of the shaft, a driver was coming out with a trip which was made up of three cars; at the place mentioned there is a small grade of one per cent in favor of the load; when the driver was about to make up with him he stepped aside to let the driver and trip pass; thinking the trip had passed, he stepped onto the entry, making his way out, when a car that had become uncoupled from the trip ran him down causing his death. He was 28 years of age and single.

May 8, 1899, Joseph Mowe, a machine helper in the Bennett mine, of the Lebanon Coal & Mining Association, Lebanon, St. Clair county, was killed instantly by a tunnel machine falling on him; the machine was reversed to bring back the thread bar and cutter, the braces were loosened and the machine was again given air to start cutting; it not being fastened down, the machine was turned over, falling on the deceased causing his death. He was 22 years of age and single.

May 29, 1899, Wm. Risinger, a loader in the Odin Coal Co.'s mine, Odin, Marion county, while loading coal at the face of his room, a piece of top coal gave way, falling on him, causing internal injuries from which he died the following day. His age was 35 years; he leaves a widow and three children.

Another fatal accident occurred, but the deceased was not an employé at the mine. June 21, 8899, Homer E. Wood, a boy, resident of Bethalto, while playing around the top at John James' mine at that place, fell down the shaft a depth of 76 feet, causing instant death. There seems to be doubt in the minds of some persons that were well acquainted with the boy, as to whether it was done intentionally or not. He was 15 years of age.

It will be noticed in this report that a large number of the fatal accidents have occurred in Madison county, which may be partly due to the system of mining being changed during the year. The system of mining prior to this year was, that a certain number of men were allowed after a machine, and each workman had special work to do; experienced men were selected to do the timbering and shooting, and inexperienced men did the loading; and, judging from the past record, it would seem that this brought good results, as only three fatal accidents were reported during the year 1897, and none in the year 1898. The present system is that the men do their own shooting and timbering, and the result, as will be seen from this report, is that men who had to timber and do their own shooting had no experience in that kind of work. The roof throughout the coal field of Madison county is of a dangerous nature; there is not a mine free from clod or soapstone, which varies in thickness from six inches to four feet, and is very brittle and full of slips; the greatest care has to be exercised in timbering the roof properly.

It will also be noticed that the production of Madison county has increased upwards of 122 per cent over that of last year, and as a result has increased the responsibilities of the State Inspector.

During the year I have visited Monroe, Effingham and Jasper counties. The coal in Monroe county is only local, and is found at Columbia and New Hanover; it is three feet in thickness, and has not been worked for two and a half years. In Effingham county there is no coal being mined. A seam was found on the bottom of the Little Wabash river, six miles from Effingham; it is about 48 inches in thickness; the seam is probably No. 15.

In Jasper county, at Newton, the county seat, I found two small mines in operation. Coal has been mined at this place for the last six years. The coal is found in a ridge, the height of which is about 60 feet above the bottom lands on each side. The breadth of the ridge, where one of the mines is located, is only 100 feet. The ridge extends north and broadens out. The seam is 30 inches in thickness, and to measure from the top of the ridge to the coal seam, it will average 50 feet in depth. The number of the seam is probaly 16.

Respectfully submitted,

John Dunlop,

State Inspector of Mines, Sixth District.

#### Fatal Casualties—Sixth District—1899.

Date.	Name.	Ag	Occupation.	Residence (Town.)	Married.	Widow.	Children.	Single.	Dependents	Cause of Accident.
Aug. 23 Sep. 19 Oct. 5 Oct. 10 Oct. 12 Oct. 24 Oct. 27 Nov. 17 Nov. 17 Dec. 5 Dec. 19	John Radenacher Louis Byman. John Stiff. Ben Anderson. Ed Floyd. John Kolar Frank E. Boyer. Nick Loquitt. John W. Reed. Thomas Taylor. Geo. Lowry. Jos. Straubinger Frank Schindler.	33 36 36 35 46 24 55 55 53 53	Cager	Belleville Edw'sville Collinsville.	i	i	3	1 	1	Falling clod  Falling roof. Falling clod Descending cage Falling clod Falling clod Falling clown shaft Falling roof. Falling roof. Falling roof. Falling roof.
Jan. 19 Jan. 23 Jan. 28 Feb. 2 Mch. 18 Mch. 29 May 8	A. R. Houlle. Adolph Beible. Wm. Hopper. A. Phillips. Wm. Fickert. Jas. Dubes. Angelo Biado Jos. Mowe. Wm. Risinger.  Totals	29 24 22 50 34 28 22 55	Miner M. helper Miner M. helper Loader	Rentchler Staunton Glen Carbon Staunton Edw'sville Glen Carbon Lebanon Odin	1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2	1 1 1	1 3  3  4	R. R. car. Machine chain. Falling roof. Falling coal. Pit car. Tunnel machine. Falling coal.

## Recapitulation of Fatal Casualties—1899.

Residence.	No.	Occupation.	No.	Nature of	Casuality	No.	Colliery.	No
Belleville Jentralia Jellinsville Edw'sville Gyrench Vill Glen Carbon. Lebanon O'Fallon Odin Rentchler Staunton	1 3 4 1 3	Cager Check w'gh'n. Loader Mach. helper. Miner Ming m'g'r Top boss	1 21 2 13 1	Falling c Falling d Falling r Machine Pit car R. R. car	ng cage oal lod own shaft oof chain	2 5 2 7 2 1	Centralia M. & M. Co Consolidated Coal Co Henrietta Coal Co Henrietta Coal Co Home Trade Coal Co Independence C'l Co Lebanon Coal Co. Madison Coal Co. Mt. Olive-Sta't n C.C. Mo. & Hl. Coal Co O'Fallon Coal Co. O'Fallon Coal Co. Strawbinger, C.	
Totals	22		22			22	·	1

## Non-Fatal Casualties—Sixth District—1899.

Date.	Name.	Age.	Residence.	Married.	Children.	Ningle.	Dependents.	Character of Injury.	Time lost days.
1899 July 7	Fred Ferguson	. 24	Odin	. 1	ı		1	Face injured	12
15	Chas. Jones Hy Herebache	1.15	Stannton		1	,	1	Back injured Leg broken	10
Aug. 13	W. J. Montrey John Berbaris	22	Odin	1	l	1		Back injured	150 30
15	John Berbaris	. 22	Heintzville.	1	L	4	9	Leg injured	8
** 20	Wm Knenckie	15	Breese	1			. 0	Head injured Leg broken	40 50
** 29	Wm. Godder Frank Wicka	35	Odin	1	١	i 7	- 8	Arm broken	21
	John Slaby	25	Edw'sville	· · · · j	i	1	10	Foot injuredBack injured	30 28
22 .	dno. Collins	. 128	Marissa	1 1	U		1	Collar bone broken	30
	Arthur Wader	18	Belleville		1			Leg injured	20
Oct. 1	Arthur Water Eugene Riga W. J. Wilson Jos. Teffer G. Weuceski Fred Ernest	20	Edw'sville		1			Head injuredBody injured	14 60
3	Jos. Teffer	. 23	Bennett's m					Leg broken. Leg broken Body injured.	60
4 4	G. Weuceski Frod Ernost	10	Collinsville,	1		-	3	Leg broken	90 60
						6	1 7	Leg broken	80
19 (	Chas. Adcox	21	Glen Carbon		1			Ankle mured	14
** 99	Alex Fuger Henry Jenrick	38	Glen Carbon		1		2	Leg broken Collar bone broken	60
21	Los Cummings	112	Relleville	1 1		2	3	Body injured	120
29	Thos. Chapman Ed Lewis John Jones	10	Staunton	1		4		Leg broken	90
31	John Jones	32	Troy		····i			Head injured Foot injured	10 20
Nov. 5	Ed Myers Chas. Coneper Luther Pigg	22	Glen Carbon	1		1	2	Hand injured Shoulder injured.	10
17	Unas. Coneper	25	Trenton		1	····i		Shoulder injured	10
· · 2i	Chas. Kokuiski	35	Collinsville.	1			1	Hand injured Head injured	12 20
Dec. 5.	Jacob Relhart	43	Centralia	1		9	10	Arm and leg broken. Head injured Hips injured.	90
8	l'hos. Hafkin Jacob Schmidt	57	Belleville	1		11	19	Head injured	12 10
9.	And, Seltenrich	28		1		4	4	Arm broken	40
13 .	Jas. Hubbard	25	Glen Carbon	1		1	2	Ribs in inred	20
29 (	And, Seltenrich Jas. Hubbard John Hetzel Chris Miller	18	Collinsville	1		ź	3	Foot injuredLeg injured	40 14
1599				1				des injured	1.1
Jan. 6.	Lis Longhon			1					
		29	Glen Carbon		1			Arm injured	10
	onas, market	140	Glen Carbon			6		Arm injuredRibs injured	10 21
10	John Scherer	20	Belleville		1	6		Arm injured. Ribs injured. Hips injured.	21 200
10.	John Scherer Chas. Seagor Syl Bellville	20 33 26	Belleville Trenton Belleville	1	1	6	5	Hips injured Leg broken.	21 200 90
10.	John Scherer Chas. Seagor Syl Bellville	20 33 26	Belleville Trenton Belleville	1	1	6 4 1	5 2 5	Hips injured. Leg broken Hand injured. Foot injured.	21 200 90 30 20
10.	John Scherer Chas. Seagor Syl Bellville	20 33 26	Belleville Trenton Belleville	1	1	6 4 1 4	5 2 5 2	Hips injured Leg broken Hand injured Foot injured Head injured	21 200 90 30 20 20
10 ; 11 ( 16 s 17 V 20 1	John Scherer Chas. Seagor Syl Bellville Wm. Henry. Fred Hartcop Ed Skates Jno. Ruff	20 33 26 48 28 21 17	Belleville Trenton Belleville Staunton Edw'sville Centralia Collinsville	1 1 1 1	1	6 4 1 4 1	5 2 5 2	Hips injured. Leg broken Hand injured. Foot injured. Head injured. Hand injured	21 200 90 30 20 20 10
10 ; 11 ( 16 ; 17 ) 20 1 20 1 21 1	John Scherer. Chas. Seagor. Syl Bellville. Wm. Henry. Fred Hartcop. Ed Skates Juo. Ruff Fred Rehe	20 33 26 48 28 22 17 30	Belleville Trenton Belleville Staunton Edw'sville Centralia Collinsville. Belleville	1 1 1 1	1  1 1 1	6 4 1 1	5 2 5 2	tips injured. Leg broken. Hand injured. Poor injured. Head injured. Hand injured. Foor injured. Foor injured. Foor injured.	21 200 90 30 20 20 10 21 12
10 ; 11 ( 16 ; 17 ) 20 1 20 1 21 1	John Scherer. Chas. Seagor. Syl Bellville. Wm. Henry. Fred Hartcop. Ed Skates Juo. Ruff Fred Rehe	20 33 26 48 28 22 17 30	Belleville Trenton Belleville Staunton Edw'sville Centralia Collinsville. Belleville	1 1 1 1	1  1 1 1	6 4 1 1	5 2 5 2	tips injured. Leg broken. Hand injured. Foot injured. Head injured. Head injured. Foot injured. Foot injured. Finger injured. Shoulder injured.	21 200 90 30 20 20 10 21 12 20
10 ; 11 ( 16 ; 17 ) 20 1 20 1 21 1	John Scherer. Chas. Seagor. Syl Bellville. Wm. Henry. Fred Hartcop. Ed Skates Juo. Ruff Fred Rehe	20 33 26 48 28 22 17 30	Belleville Trenton Belleville Staunton Edw'sville Centralia Collinsville. Belleville	1 1 1 1	1  1 1 1	6 4 1 1 1 1 3 7	5 2 5 2 	Hips injured. Leg broken Limd injured. Foot injured. Lend injured. Lend injured. Land injured. Solid injured. Solid injured. Solid injured. Solid injured. Solid injured. Solid injured. Solid injured. Solid injured.	21 200 90 30 20 20 10 21 12 20 90 20
10 ; 11 ( 16 ; 17 ) 20 1 20 1 21 1	John Scherer. Chas. Seagor. Syl Bellville. Wm. Henry. Fred Hartcop. Ed Skates Juo. Ruff Fred Rehe	20 33 26 48 28 22 17 30	Belleville Trenton Belleville Staunton Edw'sville Centralia Collinsville. Belleville	1 1 1 1	1  1 1 1	6 4 1 1 1 1 3 7	5 2 5 2 	Hips injured Leg broken (Inad injured Foot injured Foot injured Head injured Head injured Finger injured Finger injured Shoulder injured Foot injured Leg injured Leg injured Foot injured Leg injured Foot injured F	21 200 90 30 20 20 10 21 12 20 90 20 90
10 ; 11 ( 16 ; 17 ) 20 1 20 1 21 1	John Scherer. Chas. Seagor. Syl Bellville. Wm. Henry. Fred Hartcop. Ed Skates Juo. Ruff Fred Rehe	20 33 26 48 28 22 17 30	Belleville Trenton Belleville Staunton Edw'sville Centralia Collinsville. Belleville	1 1 1 1	1  1 1 1	6 4 1 1 1 1 3 7	5 2 5 2 	Hips injured Leg broken (Inad injured Foot injured Foot injured Head injured Head injured Finger injured Finger injured Shoulder injured Foot injured Leg injured Leg injured Foot injured Leg injured Foot injured F	21 200 90 30 20 20 10 21 12 20 90 20 90
10 10 10 10 11 10 11 11 11 11 11 11 11 1	John Scherer.  Chas. Seagor.  Svil Bellville.  Wm. Henry.  Fred Harteop.  Ed Skates.  Ino. Ruff  Fred Rohe  Trist Brandhoos  3. Hutchison  Chas Taher  Frank Walsh.  James Collins  Jawid Traverse.	20 33 26 48 22 17 30 35 51 20 55	Belleville Trenton. Belleville Staunton. Edw'sville. Centralia. Collinsville. Belleville. Centralia. Collinsville. Belleville. Lenz Stat'n.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 	6 4 1 4 1 1 3 7 6	5 2 5 2  4 8	Hips injured Leg broken Land injured Foot injured dead injured Anal injured Soot injured Foot injured	21 200 30 20 20 10 21 12 20 90 60 30 14
10 10 10 10 11 10 11 11 11 11 11 11 11 1	John Scherer.  Chas. Seagor.  Svil Bellville.  Wm. Henry.  Fred Harteop.  Ed Skates.  Ino. Ruff  Fred Rohe  Trist Brandhoos  3. Hutchison  Chas Taher  Frank Walsh.  James Collins  Jawid Traverse.	20 33 26 48 22 17 30 35 51 20 55	Belleville Trenton. Belleville Staunton. Edw'sville. Centralia. Collinsville. Belleville. Centralia. Collinsville. Belleville. Lenz Stat'n.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 	6 4 1 4 1 1 3 7 6	5 2 5 2  4 8	Hips injured Leg broken Land injured Foot injured dead injured Anal injured Soot injured Foot injured	21 200 30 20 20 10 21 12 20 90 60 30 14 30
10 10 10 10 11 10 11 11 11 11 11 11 11 1	John Scherer.  Chas. Seagor.  Svil Bellville.  Wm. Henry.  Fred Harteop.  Ed Skates.  Ino. Ruff  Fred Rohe  Trist Brandhoos  3. Hutchison  Chas Taher  Frank Walsh.  James Collins  Jawid Traverse.	20 33 26 48 22 17 30 35 51 20 55	Belleville Trenton. Belleville Staunton. Edw'sville. Centralia. Collinsville. Belleville. Centralia. Collinsville. Belleville. Lenz Stat'n.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 3 7 6 6	5 2 5 2 2 4 8	Hips injured Leg broken Hand injured Foot injured Head injured Head injured Head injured Foot injured Foot injured Foot injured Foot injured Foot injured Coot injured Leg injured Leg injured Leg broken Kibs injured Shoulders injured Aboulders injured Body injured Body injured Body injured Body injured Body injured Body injured Body injured	21 200 30 20 20 10 21 12 20 90 60 30 14
10. 11 (10. 11	John Scherer Las. Seagor Al Bellville. Wh. Henry. Henry. Fred Harteop. 503 Skates Ino. Ruff Frist Brandhoos E. Hutchison has Tabler James Collinames Collinames Collinames Collecter Harty Poole feter Skein thos. Harvey ohn Boisee.	20 33 26 48 22 17 30 35 51 28 20 55 42 33 30 31 35 35 42 33 33 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	Belleville Trenton Belleville Staunton Edw'sville Collinsville Belleville Collinsville Collinsville Collinsville Edwisteralia Belleville Edwardsv'e Sandoval Staunton	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 · · · · · · · · · · · · · · · · · · ·	5 2 5 2 2  4 8	Hips injured Leg broken Lind injured Foot injured Foot injured Lead injured Land injured Land injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Long injured Long injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured	21 200 90 30 20 20 10 21 12 20 90 60 30 14 30 20
10. 11 (10. 11	John Scherer Las. Seagor Al Bellville. Wh. Henry. Henry. Fred Harteop. 503 Skates Ino. Ruff Frist Brandhoos E. Hutchison has Tabler James Collinames Collinames Collinames Collecter Harty Poole feter Skein thos. Harvey ohn Boisee.	20 33 26 48 22 17 30 35 51 28 20 55 42 33 30 31 35 35 42 33 33 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	Belleville Trenton Belleville Staunton Edw'sville Collinsville Belleville Collinsville Collinsville Collinsville Edwisteralia Belleville Edwardsv'e Sandoval Staunton	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 · · · · · · · · · · · · · · · · · · ·	5 2 5 2 2  4 8	Hips injured Leg broken Lind injured Foot injured Foot injured Lead injured Land injured Land injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Long injured Long injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured	21 200 90 30 20 20 10 21 12 20 90 60 30 14 30 30 21
10. 11 (10. 11	John Scherer Las. Seagor Al Bellville. Wh. Henry. Henry. Fred Harteop. 503 Skates Ino. Ruff Frist Brandhoos E. Hutchison has Tabler James Collinames Collinames Collinames Collecter Harty Poole feter Skein thos. Harvey ohn Boisee.	20 33 26 48 22 17 30 35 51 28 20 55 42 33 30 31 35 35 42 33 33 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	Belleville Trenton Belleville Staunton Edw'sville Collinsville Belleville Collinsville Collinsville Collinsville Edwisteralia Belleville Edwardsv'e Sandoval Staunton	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 · · · · · · · · · · · · · · · · · · ·	5 2 5 2 2  4 8	Hips injured Leg broken Lind injured Foot injured Foot injured Lead injured Land injured Land injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Long injured Long injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured	21 200 90 30 20 10 21 12 20 90 20 90 60 30 14 30 20 14 14 16 20 20 20 20 20 20 20 20 20 20 20 20 20
10. 11 (10. 11	John Scherer Las. Seagor Al Bellville. Wh. Henry. Henry. Fred Harteop. 503 Skates Ino. Ruff Frist Brandhoos E. Hutchison has Tabler James Collinames Collinames Collinames Collecter Harty Poole feter Skein thos. Harvey ohn Boisee.	20 33 26 48 22 17 30 35 51 28 20 55 42 33 30 31 35 35 42 33 33 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	Belleville Trenton Belleville Staunton Edw'sville Collinsville Belleville Collinsville Collinsville Collinsville Edwisteralia Belleville Edwardsv'e Sandoval Staunton	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 · · · · · · · · · · · · · · · · · · ·	5 2 5 2 2  4 8	Hips injured Leg broken Lind injured Foot injured Foot injured Lead injured Land injured Land injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Long injured Long injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured Lond injured	211 200 30 30 20 20 20 10 21 12 20 90 90 90 14 30 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40
10. 11 (10. 11	John Scherer Las. Seagor Al Bellville. Wh. Henry. Henry. Fred Harteop. 503 Skates Ino. Ruff Frist Brandhoos E. Hutchison has Tabler James Collinames Collinames Collinames Collecter Harty Poole feter Skein thos. Harvey ohn Boisee.	20 33 26 48 22 17 30 35 51 28 20 55 42 33 30 31 35 35 42 33 33 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	Belleville Trenton Belleville Staunton Edw'sville Collinsville Belleville Collinsville Collinsville Collinsville Edwisteralia Belleville Edwardsv'e Sandoval Staunton	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 · · · · · · · · · · · · · · · · · · ·	5 2 5 2 2  4 8	Hips injured Leg broken Itand injured Foot injured Foot injured Foot injured Foot injured Foot injured Finger injured Finger injured Foot injured Leg injured Face injured Face injured Face injured Face injured Face injured Foot injured Foo	21 200 90 30 20 10 21 12 20 90 20 90 60 30 14 30 20 14 14 16 20 20 20 20 20 20 20 20 20 20 20 20 20

# Non-Fatal Casualities -Sixth District, 1899.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent.	Character of Injury.	Time los
28 April 4 4 5 6 6 7 7 10 11 11 11 11 11 11 11 11 11 11 11 11	John Campbell Jno, Station Albert Schbreck'r Max Binder Chas. McKinney. David Henry Laf Logan Wm. D-werf	15 26 36 35 31 22 30 0 47 5 4 27 9 33 4 5 5 14 36 21 35 4 4 4 0 4 5 6 7 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Glen Carbon Centralia Central City Glen Carbon Glen Carbon Glen Carbon Sandoval Trenton Belleville Edwardsv'e Centralia Edwardsv'e Glen Carbon Centralia Lenz Statu. Lenz Statu. Centralia Glen Carbon Odin Centralia Centralia Glen Carbon Odin Centralia Centralia Glen Carbon Odin Centralia Centralia Centralia Centralia Centralia Centralia Centralia Centralia Centralia Collinsville. Glen Carbon	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5443355	1 65 44 66 66 66 66 66 66 66 66 66 66 66 66	Leg injured Leg broken Hand injured Body injured. Head injured. Body injured. Body injured. Body injured. Body injured. Body injured. Poot injured. Shoulder injured. Head injured. Head injured. Back injured. Back injured. Leg broken. Leg broken. Head injured.	

<sup>\*</sup> Not recovered.

Total men injured Number not recovered Number necovered Number recovered Total time lost by men recovered.	$\begin{array}{c} 2\\90\\3,147\end{array}$	days.
Average time lost per man recovered	35	••

### Recapitulation of Non-Fatal Casualties - Sixth District, 1899.

Residence.	Nο.	Occupation.	No.	Cause of Ac	eident.	No.	Coffiery.	No.
Belleville Rennetts' M. Rennetts' M. Rennetts' M. Brosse. Ender G. Cenival City. Cenival City. Cenival Contradia Collinsville Glen Carbon. Heintzville Leng Station Marissa. Odin. O'Falion. Sandoval Sorento. Staunton Troy. White Oak. Worden	16 1 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1	Cager Drill rs Drilvers Fireman Laborers Londers Mach lielpers Mach lielpers Mach lielpers Mach runners Mine mar Ninemers Shooters Shooters Timberman.	1 2 2 4 1 3 7 7 4 4 1 5 5 2 4 4 1	Cage Palling coal Fadling prop Fadling prop Fadling were Fadling were Fadling were Fadling were Fadling were Fadling were Fadling were Fadling coal Kick d by m Machine cha Dawder expl Tie fadling dox	in	1 20 1 31 1 1 4 4 3 2 1 1 19 6 1	Belleville & O'F, C.C. Bennett's mine Breess Canl Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Centralia M. & M. Co. Hippaed Coal Co. Mo. & Hl. Coal Co. Mo. & Hl. Coal Co. Mo. & Hl. Coal Co. Mr. Olive & St. L.C.C. Curren Coal & Ice Co. Oak Hill Coal Co. Odin Coal Co. Pettinger & Davis M. & M. Co. Sandovaí Coal Co. Skellett Coal Co. Skellett Coal Co. Skellett Coal Co. Skellett Coal Co. Taylor, Joseph. Trenton C. L. & P.Co.	7 11 4 3 1 3 1 1 21
Totals	92		92			92		92

#### Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with averages and Pencentages —Sixth District, 1899.

	ř			lents	TIME	Lost.	Per cent
NATURE OF INJURY.	Number	Married	Single	Depend	Total days.	Average days.	of injuries.
Ankles injured.  Arm so broken  Arm so leg broken  Arm sinjured.  Bodies injured.  Bodies injured.  Collar bones broken.  Face injured.  Feet injured.  Fingers injured.  Hands injured.  Heads injured.  Heads injured.  Heys injured.  Legs broken.  Legs broken.  Legs broken.	1 3 1 1 6 6 14 3 1 8 2 7 7 13, 2 13, 14, 15, 16, 17, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	5 9 1 1 1 1 1 1 9 3	11 52 41 3 44	12 10 17 27 1 17 6 6 7 38 12 42 20	14 121 90 10 102 429 114 90 271 22 100 241 210 820 274	10 40 90 10 17 30.6 38 90 33.9 11 14.3 18.5 105 63	1.09 3.26 1.09 6.522 15.23 3.26 1.09 8.7 2.17 7.6
Ribs injured. Shoulders injured. Toes cut off.	3 6 1.	3	3 1	16 11	71 108 60	23 7 18 60	3.26 6.52 1.09
Totals	92	60	32	238	3, 147	34 2	100.00

## Bond County—Sixth District—1899.

				DES	SCF	RIPT	on.			OUTFIT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift	Steam, horse or hand power	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1	Sorento P. and Mfg Co	Sorento	380	7.6	6	Sh.	s.	M.	100, 955	58,960	41,995
	Totals								100,955	58,960	41, 995

Price for machine mining, 94,455 tons, 33 cents per ton.

Whole number of openings reported in 1898, 2.

Number of mines exhausted or abandoned during the year, 1.

Whole number of openings reported for 1899, 1.

# Clinton County—Sixth District—1899.

		1		DES	SCI	RIPT	ION.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coalfect and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
400	Consolidated Coal Co Trenton Coal L. & P. Co. Breese Coal Co Consolidated Coal Co *Muren Coal and Ice Co. Germantown Coal Cc.  Totals.  Averages	Breese New Badeu Germantown.	400 400 400 324 342	7.6 8 4	6 6 6 6 6 	Sh	s	М. В. 	† 80,048 † 75,658 203,998 73,674 357 1,000 434,735	56, 744 181 828 53, 477 357 753	18, 914 22, 170 20, 197

<sup>\*</sup> Only in operation about one month at the date of this report. Cost of sinking the shaft,  $\$14,\!000.$ 

Number of new mines or places opened during the year, 2.

Whole number of openings reported for 1899, 6.

<sup>†</sup> Mined by machines at 38 cents per ton.

Whole number of openings reported in 1898. 4.

## Bond County, 1899- Concluded.

		VALUES		En	1PLOYE	s.	-no:	outh-	ü.	ring		mules it the	Aco	
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-mouth ly or weekly.	Days of active operation	Total wages paid du the year to all emplexecpting office help.	Kegs of powder used.	Number of horses or n employed in or about mine.	Fatal	Non-fatal.
1	\$0.897	\$0.118	\$57,842	128	53	181	80 40	S-M.	178	\$60,503	1,425	17	,	4
			\$57,842	128	53	181				\$60,503	1, 425	17		4
	\$0.897	\$0.118					80 40		178					• • •

# Ctinton County, 1899-Concluded.

		VALUI	Es.	Ем	PLOYE	s.	ton-	onth-	nr.	during nyloyés lp.		A the	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of niners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-monthly is or weekly.	Days of active operation	Total wages paid du the year to all emyl excepting office help.	Kegs of powder used.	Number of horses or m employed in or about mine. Fatal.	Non-fatal.
1 2 3 4 5 6	\$0 80 90 65 65 65 65 1 00	\$0 40 25 20 25 25	\$55, 112 55, 798 122, 622 39, 809 232 876	50 65 150 80 4	43 31 28 20 2 5	93 96 178 100 6 9	\$0 40 40 40 45		248 142 216 184 20 141	\$60, 135 47, 664 100, 000 39, 120 *	549 4,427 1,493	12 5	2 2 1 
	80.715	80,277	\$274, 449	353	129	182	so 40		159	\$251,051	6,976	34	

<sup>\*</sup> Not reported.

### Madison County—Sixth District—1899.

				DE	SCI	RIPT	10N.		(	Эитрит.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	SLaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
11 $12$ $13$ $14$ $15$ $16$ $17$ $18$ $19$ $20$ $21$ $22$ $23$ $24$ $25$	Mt. O. & S. Coal Co. John James W. R. Richardson Latley Yeager Sam McDonald Malloy & Ball Malloy & Ball Nathan Mydul John Welnally Frank Corteemp Charles Kabel Ary Charles Kabel Home Trade Coal Co. Home Trade Coal Co.	Troy Worden Glen Carbon Edwardsville Ken Carbon Moro Moro North Alton Moro Bethalto Moro Bethalto Collinsville Collinsville	168 278 278 278 309 275 110	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	666666666666666666666666666666666666666	Sh	S	M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. B. M. M. B. M. B. M. B. M. B. M. B. M. M. B. M. M. B. M. M. B. M. M. B. M. M. B. M. M. B. M. M. B. M. M. M. M. M. M. M. M. M. M. M. M. M.	* 188, 415 * 154, 294 * 26, 461 * 39, 768 * 39, 768 * 39, 768 * 293, 559, * 56, 778 * 219, 229 * 210 * 85 * 125 * 225 * 171 * 460 * 460 * 4, 823 * 34, 615 * 2, 829 * 99, 918 * 59, 916 * 11, 403, 977 * 11, 403, 977 * 11, 403, 977	144, 368 122, 367 19, 782 28, 444 755 755 200 100 105 105 105 107 109 209 500 209 500 209 500 21, 132 21, 132	31, 927 6, 677 11, 244 157 74, 625 12, 854 41, 632 54, 218 1, 026 6, 297 73, 028 33, 028 19, 672
	Averages										

<sup>\*</sup> Mined by machine, price paid 33 cents per ton.

Whole number of openings reported in 1898, 23,

Number of new mines or places opened during the year, 4.

Number of mines exhausted or abandoned during the year, 1.

Whole number of openings reported for 1899, 26.

# Madison County, 1899 Concluded.

	VALUES		Ем	PLOYE	۷.	T tes	ath	=	during ployes Ip.		를를 A	CCI-
Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	Ali other employe's.	Total employés.	Price paid per serened fon - hand mining.	Paid near hix, sent menth-	Days of active (peration	Total wages paid during the year to ail employes excepting office help.	Kers of powder used.	Number of horse cormules employed in or about the mine.	Section Section 1
\$0.65 50 \$0.50	\$0 25 10 10 10 40 40 35 40 35 25 25	\$104, \$50 \$7, \$50 14, \$592 27, 268 670 670 670 670 670 670 670 670	\$11 80 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	60 31 19 25 50 30 17 61 1 1 1 1 1 1 1 1 1 1 1 1 1	148 192 585 677 155 66 275 154 44 47 100 555 55 104 101 102 102 102 102 103 103 104 105 105 105 105 105 105 105 105 105 105	1 0.7 75 75 75 1 0.0 1 0	S.W	2744 247 1445 1916 1917 1318 257 220 236 240 250 225 200 225 200 225 200 225 200 225 200 225 200 225 200 225 200 225 225	\$7,07 G1\$25 20,286 20,286 21,464 116,635 117,185 117,1	977 1, 97 - 12	2 2 1 2 2 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1	
89 72.6	80 31.9	8853, 845	597	395	1, 295	S0 41		181	8678-983	[2], [Sr	140-14	3

### Marion County—Sixth District—1899.

				DES	SCE	HPT:	ion.		(	OUTPUT,	
Vumber.	Name of Operator.	Postoffice.	Depth of coul-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift,	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4 5	Centralia M. & M. Co., No.2 Pittenger & Davis Min- ing & Mfg Co. (Big 4) Odin Coal Co. Sandoval Coal Co. Kinmundy Coal Co. Salem Coal Co.	Odin Sandoval Kinmundy	637 714 609 871	6 7 6 4	6 6 6 6 6	Sh.	s  	М. В. В. М.	* 111,271 105,779 * 142,574 85,079 38,675 10,739	55,517	32, 447 47, 525 29, 562 11, 117
	Totals								494, 117	342,940	151, 177
	Averages										

<sup>\*</sup> Mined by machines, price paid 29 cents per ton. Whole number of openings reported in 1998. 6. Whole number of openings reported for 1899. 6.

### St. Clair County-Sixth District-1899.

-		1		DES	SCRIP	TION.			OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam Shaft, slope or drift.	borse o	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
10 11 12 13 14 15 16 17 18 19 29 21 22 23	Con. C.Co., Richiand Schureman. Gartside, No. 4 Gartside, No. 4 Green Mt. Green Mt. White Oak Oakland Coal Co. Crown C. & T. Co., No. 2 Crown C. & T. Co., No. 2 Crown C. & T. Co., No. 2 Gendale Coal Co. Grown C. & T. Co., No. 4 Highland Coal Co. Bellevilleck O'Fallon C.Go Glendale Coal Co., No. 1 Glendale Coal Co., No. 1 Glendale Coal Co., No. 2 Oak Hill Coal Co. Septent Coal Co. How Res. Coal Co. Humbold Coal Co. Mo. & Hl. C. Co., Wild Im. Mo. & Hl. C. Co., Wild Im. Mo. & Hl. C. Co., Wild Im. Mo. & Hl. C. Co., Wild Im. Mo. & Hl. C. Co., Wild Im. Mo. & Hl. C. Co., Wild Im. Mo. & Hl. C. Co., Freeburg	Marissa.  Belleville.	90 125 205 160 125 132 147 175 125 120 120 120 115 160 75	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 Sh 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		M. B. M. B. M. B. M. B.	* 34, 756 * 41, 750 * 43, 741 * 37, 445 * 11, 994 * 76, 040 * 76, 040 * 51, 406 9, 118 22, 101 83, 128 * 69, 970 35, 295 30, 126 * 74, 409 13, 165 30, 126 * 74, 409 14, 1410 35, 205 36, 205 37, 406 38, 305 41, 410 46, 528 32, 639 73, 784 65, 100 66, 528 73, 784 65, 100	28, 608 36, 758 36, 758 32, 223 13, 550 19, 114, 550 64, 108 46, 116 7, 660 32, 293 31, 097 55, 500 32, 437 35, 359 36, 111 59, 437 21, 820 51, 022 47, 250	5, 022 6, 976 5, 222 1, 444 4, 867 11, 932 8, 290 8, 290 13, 908 13, 908 13, 908 14, 208 14, 208 14, 208 14, 208 15, 208 16, 21 10, 899 10, 899 12, 168 10, 16

<sup>\*</sup> Machine mining, price paid 53 cents per ton. † Machine mining, 25.543 tons at 33 cents per ton.

# Marion County, 1899—Concluded.

		VALUES		Ем	PLOYE	s.	ton-	onth-	į	daring aployés dp.		mules at the		CCI- NTS
Number.	Average value of lump per ton at the nime.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or m employed in or about mine.	Patal.	Non-fatal.
1	80 81	80 3034	875,869	130	76	206		S-M.	165	\$60,086	717	20	1	5
2 3 4 5 6	\$1,9 75 70 85 1 00	33.7 20 17 15 50	70, 993 80, 791 43, 886 25, 091 9, 665	132 125 160 33 20	56 72 68 13 12	218 197 228 46 32	\$0 36 36 41 41		$\begin{array}{c} 175 \\ 280 \\ 120 \\ 250 \\ 200 \end{array}$	59,236 76,989, 42,042 24,191 9,076	2,660 1,679 2,295 925 152	24 27	::1	6 7 4 
			8306, 294	600	327	927				8271,620	8,428	117	2	22
	80.78	80 24.4 .					80 37		195					

# St. Clair County, 1899--Continued.

_												
		VALUES.		Ем	PLOYE	s.	do	inth-	- <u>-</u>	uring oyés		Acci-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employes.	Total employés.	Price paid per gross ton hand mining.	Paid monthly, semi monthly by or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or nucles comployed in or about the mine. Fatal.
1 2 3 3 4 4 5 6 6 7 7 5 9 10 111 122 133 144 15 166 177 15 12 20 21 22 22 22 24	\$1 65 65 65 65 65 65 65 65 65 65 65 65 65	80 25 25 25 25 25 25 25 25 25 25 25 25 25 2	820, 132 25, 147 25, 611 22, 219 9, 168 13, 662 15, 661 14, 653 35, 142 49, 385 48, 391 22, 550 49, 224 24, 567 24, 169 24, 169 41, 16	27 32 40 217 22 14 4:: 32 75 40 35 35 23, 23, 24 40 55	15 16 11 17 17 13 24 10 12 17 19 7 7 7 13 13 13 13 14 14	366 47 566 42 297 666 42 297 666 42 297 426 426 426 427 426 427 426 427 426 427 426 427 426 427 427 427 427 427 427 427 427 427 427	\$9 40 10 40 40 40 40 40 40 40 40 40 40 40 40 40	S.M.	216 177 169 179 135 194 240 250 85 75 269 204 243 247 247 243 270 243 243 243 244 244 244	815, 400 20, 172 19, 20, 173 15, 652 7, 550 9, 638 14, 572 55, 601 51, 485 33, 463 11, 662 36, 630 8, 236 8, 236 12, 141 31, 718 18, 212 21, 161 22, 767 31, 763 31, 763 31, 763	244 2447 247 247 247 247 247 247 247 247	3 1 3 6 2 4 6 2 1 6 3 8 7 1 1 2 3 4 2 1 2 3 3 3 3 3 4 3 4 5 5 2 3 4 5 5 5 5 6 7 1 2 3 5 5 5 6 7 1 3 4 5 5 5 5 5 5 5 5 6 7 8 8 8 8 1 1 3 6 8 1 8 8 1 1 8 1 8 1 8 1 8 8 1 8

#### St. Clair County, 1899.—Concluded.

				DES	CR	IPTI	on.		(	DUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Reological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blusted.	Total tons pro- duced.	Tons of lump coal,	Tons of other grades
26 27 27 27 31 32 33 33 33 36 37	Mo, & Ill, C. Co., R'ntchl'r Leb, Coal & M. Asso., J. Moser, Turkey Hill, Win, Ogden & Bro. Freeburg Mfg Co. Dutch Hollow Coal Co. L. Krantz, Eb-l Bros. Johnson Coal Co. Eureka Coal Co. O'F. C. & M. Co., Darrow, Joseph Taylor, Taylor, Joseph Taylor, Xewton.	Lebanen Rentchler Freeburg Belleville Marissa	130 200 110 120 130 150 55 50 120 114 186 200 210	6 6 7 7 8 6 0 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6 6	S1.	s	B. M. B.	36, 301 *49, 177 12, 000 12, 600 1, 750 32, 121 1, 163 5, 300 12, 248 47, 005 62, 600 57, 159	29, 401 40, 080 8, 000 1, 550 21, 826 1, 133 4, 800 28, 700 12, 166 32, 157 52, 000 45, 720	7,900 9,09' 4,000 4,200 7,29: 30 500 6,300 8: 14,84' 10,600 11,430
39 40 41 42 43 44 45 46 47 48 50	Rubicon, Joyce & Griece, Ruby Wahnut Hill Coal Co. Summit Coal Co. Trixe & Sons Coal Co. Kobl Coal Co. James Beaty Milstadt Coal Co. Wm. Pistor Dutch Hill Coal Co. Muren Coal & Ice Co. Taylor Bros. Nicholas Weiss Klingenfus Bros.	Birkner Lonzburg Mascontah Millstadt New Athens Belleville	200 200 190 191 160 175 48 46 70 180 35 66	7 6 7 6 6 6 6 6 6 6 6 6 6	66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		Ho. S. Ho.	M. B.	12, 512- 47, 000 32, 000 22, 321 70, 000 2, 779 14, 656 3, 126 5, 580 120, 000 5, 869 2, 489 3, 100	9, 384 39, 000 24, 000 18, 193 51, 000 2, 479 8, 106 4, 580 80, 000 5, 869 2, 489 3, 000	3, 12 8, 000 8, 000 4, 12 19, 000 6, 55 1, 000 40, 000
52 53 54 55 56 57 58 60 61	Johnson Coal & Mfg Co. Briar Hill. Advance Coal Co. John Harst. Fleming & Son. James Charleton. Conrad Strawbinger. Conrad Reeb. Louis Grossman. Frederick Murphy. Benj. Johnson. Diedrich Coal Co. Charles Hartman. Smith Bros. Griffith & Warner. J. C. Marshall.	Marissa Belleville Centerville French Vill'ge Belleville Freeburg	75 87 55 60 50 100 20 60 30 60 20	6 6 6 6 6 6 6 6 7 6 6 7 6 6 6 6 7	6 6 6 6 6 6 6 6	Sh Sl.	S. Ho. S. M. Ho. M. Ho. Ho.	M. B. M.	28, 800 14, 017 3, 500 1, 500 5, 008 1, 000 12, 000 400 20, 400 120 120 100	1,500 5,008 1,000 4,613 560 12,000 500 400 16,320 440 12,000	3,76
	Totals								1,849,474	1,475,768	373, 70

Whole number of openings reported in 1898, 63.

Number of new mines or places opened during the year, 7.

Number of mines exhausted or abandoned during the year, 5.

Whole number of openings reported for 1899, 65.

\* Machine mining, price paid 30 cents per ton.

# St. Clair County, 1899.—Concluded.

		VALUE	is.	Es	1PLOY1	s.	tom-	onth-	'n.	oyes		2 = A	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employe's.	Total employés.	Price paid per gross thandmining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Non-fatal.
25 26 27 29 30 32 33 35 35 37	\$0 70 80 65 65 75 70 75 1 00 70 65 80 75	\$0 25 50 25 30 50 30 30 35 50 40 55 35 65	\$21, \$55 36, 612 6, 200 6, 720 1, 262 19, 566 859 22, 610 7, 952 30, 921 45, 810 41, 719	25 86 30 50 50	15 24 4 4 27 7 2 3 3 12 14 11	47 94 12 19 8 32 10 9 30 11 62 79	\$0 40 40 40 40 10 10 10 40 40 40 40 40		168 309 200 180 60 180 250 300 175 240 209 182 170	\$18, 622 20, 506 6, 600 6, 300 700 17, 911 639 2, 650 17, 500 6, 736 25, 242 30, 112 28, 916	883 359 360 581 581 539 240 815 559 922 1,322 1,143	11 1 2 1	1
359 101 423 445 467 49 50	70 70 65 65 65 1 25 70 1 00 80 65 1 00 1 00	25 35 30 40 20 20 50 50	7, 350 30, 100 18, 000 13, 476 36, 950 3, 158 8, 919 3, 126 4, 161 64, 000 5, 869 2, 489 3, 050	35 28 20 40 5 22 5 11 90 5	6 19 14 14 11 21 21 21	26 43 35 26 59 7 26 6 15 101 7 56	40 40 40 40 40 40 40 50 40 40 40 40	S-M.	90 240 240 261, 225 300 175 230 192 260 310 275 210	6, 652 20, 900 12, 250 12, 276 30, 000 1, 667 8, 949 1, 875 5, 170 60, 000 2, 931 1, 874 1, 575	70 400 806 1,116 2,000 150 3,000 5 40	5 2 1 2 1 2 1	1
51 52 53 54 55 56 57 58 61 62 63 64 65	60 89 1 00 80 75 90 75 1 00 1 00 1 00 1 00 1 00		15, 600 10, 084 3, 500 1, 200 3, 756 900 7, 200 13, 056 14, 056 140 120 100	5 4 3 4 2 5 2 10 2 2 2	11 4 2 1 1 2 1 2 1 3 3 1 1 1 6 1	31 12 6 4 5 3 13 3 2 2 2 2	40 50 40 40 50 50 55 62 40 50 40 50 50	S-M. W. S-M. S-M. S-M. W.	200 210, 310 120 261 270 289 70 250 150 250 250 200 126	12, 230, 10, 084 1, 601 1, 200 2, 786 6,000 5,00 400 10, 000 120 100	1, 200 323 100 240 71 150	3 1 3 1 1 1 2 1 1 1 1 2 1	
	\$0.68	80 31.7	81, 131, 482		518	2, 123	\$0.40		206	8920, 640			22

#### Recapitulation by Counties--

		M	INES				P	RODUCTS			v	ALUES.
Counties.	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines	Total tons produced.	Tons of lump coal.	Tens of other grades.	Tons shipped.	Tons consumed or wasted at the mines.	Average value per ton of lump at the mines	Average value of other grades per ton at the mines.
Bond	1	1			1	100, 955	58, 960	41, 995	79, 796	11, 281	\$0 89.7	\$0 11.8
Clinton	6	6		2		434,735	350, 893	83,842	380,700	28,598	71.5	27.7
Madison	26	12	11	1	1	1, 403, 977	1,065,516	338, 461	1, 165, 977	164, 183	72,6	31.9
Marion	6	6				494, 117	342,940	151, 177	448, 753	18, 040	78	24.4
St. Clair	5	7	18	7	5	1,849,474	1,475,768	373, 706	1,598,477	104,566	68	31.7
Totals	104	72	32	13	7	4,283,258	3, 294, 077	989, 181	3,673,703	326, 668		
Averages.											80 71.69	\$0 29.5

Whole number of openings reported in 1898, 98.

Number of new mines or places opened during the year, 13.

Number of mines exhausted or abandoned during the year, 7,

Whole number of openings reported for 1899, 104.

#### Sixth District-1899.

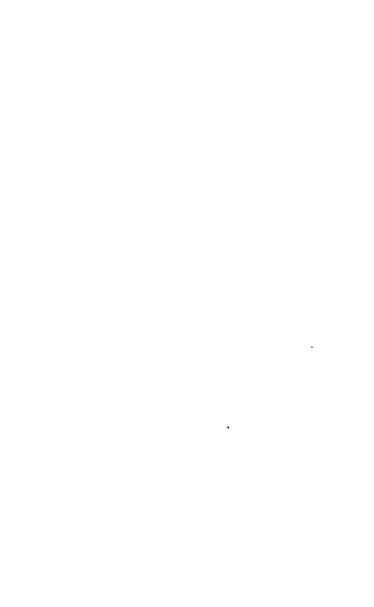
	Ем	PLOY	es.	s of	per	ring oyés	powder	and	Casuai	TIES	Маси	NES.
of		ė.		Average number of days, active operation.	verage' price paid per gross ton for hand mining	otal wages paid during the year to all employés excepting office help.		horses yed in nes.			n e s ines	3
value ict	Number of miners.	other	.es.	ation	price n for ha	s paid all en office he	Number of kegs of used.				unber of mines using machines. unber of machines in use.	cut
2	r of n	J.	aploy	oper	on for	rage: ear to ting o	of k				of	tons ines.
Aggregate total prod	unbe	Number ployés,	Fotal employés.	erag	Average gross to	Total the ye except	amber used.	Number mules about t	Killed.	Injured.	Number using 1 Number in use.	Total tons machines.
AR	ž	Z	To	Ay	A s	To	N N	N	2	In :	Z Z Z	To
\$57,842	128	53	181	178	30 40	\$60,503	1,425	17		4	1 7 *	94, 405
274, 449	353	129	482	159	40	251, 051	6, 976	34		5	2 20 †	155, 706
883, 845	897	398	1,295	181	41.5	678 933	13,486	140	14	39	8 67 *.	, 204, 695
306, 294	600	327	927	198	37	271, 620	8, 428	117	2	22	2 11 ‡	253, 845
1, 131, 482	1,605	518	2, 123	210	40	920, 640	38, 568	204	6	22	10 39 *	461, 303
\$2,653,912	3,583	1,425	5,008			\$2, 182, 747	68,883	512	22	92	23 144 83	2, 169, 954
				196.8	\$0.40							

<sup>\*</sup> Price paid, 33 cents per ton.

<sup>†</sup> Price paid, 38 cents per ton.

<sup>‡</sup> Price paid, 29 cents per ton.

<sup>¿</sup> Average price paid, 32.9 cents per ton.



#### SEVENTH INSPECTION DISTRICT-1899.

Counties: Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Washington, Williamson.

EVAN D. JOHN, Inspector, Carbondale.

Hon. David Ross, Secretary,

State Bureau of Labor Statistics, Springfield, Illinois:

Str:—In compliance with section 12 of the general mining law of the State of Illinois, I have the honor to submit herewith to you the fourth annual report of the coal mines located in the Seventh Inspection District, as now defined, and the sixteenth of the general series for the year ending June 30, 1899.

The district shows an increase in output over that lof 1898 of 233,076 tons. The tabular statement herewith, gives the statistics of each county, showing the number of mines operated during the year, both shipping and local mines; the new and abandoned mines: the depth of coal below the surface; the total tennage of all grades of coal; the value per ton at each mine, and the aggregate value of the total product, and the number of tons of coal produced by machines.

The following summary gives the principal facts compiled from the schedules of the several counties:

Number of counties in which coal is produced	10
Total number of mines	131
Shipping mines	57
Local mines	74
New mines.	15
Abandoned mines	7
Mines using machines	12
Total tonnage	3, 392, 376
Tons of lump coal.	2,301,555
Tons of other grades.	1,090,821
Aggregate value of total product	82, 322, 098
Average value of lump coal per ton at the mine	80.769
Average value of other grades per ton at the mine	\$0.295
Number of miners.	3, 366
Number of other employés.	1,496
Number of boys.	137
Total number of employés.	4,999
Average number of days of operation for all mines	159
Number of kegs of powder used in blasting coal.	79, 267
Number of kegs of powder used for other purposes.	81
Number of fatal accidents.	14
Number of non fatal accidents.	60
Number of widows	9
Number of children	23
Number of coal cutting machines.	64
Total tonnage cut by machines	807, 692
Number of tons of coal produced to each fatal accident.	242, 313
Number of tons of coal produced to each non-fatal accident	56,540
Number of persons employed to each fatal accident.	357
Number of persons employed to each non-fatal accident	83
The second of persons of the second s	

Prospective Mine.—The Sunnyside Coal Co. is sinking a shaft one mile west of Herrin, in Williamson county, on the Illinois Central Railroad.

Abandoned Mines.—Two mines have been abandoned in Randolph county, three in Williamson county, and five in Perry county. The five mines abandoned in Perry county were shipping mines; three of them belonged to the Duquoin Union Coal Co., one to the Jupiter Mining Co., all located at Duquoin, and one a small mine at St. Johns.

Fatal Accidents. The following is a detailed account of the fatal accidents that have taken place in the Seventh District:

July 12, 1898. August Durbee, a miner, aged 33 years, married, leaves a widow and four children, was killed instantly by a fall of slate at the face of his working place in shaft No. 7 operated by the Big Muddy Coal & Iron Co., at Herrin, Williamson county. The deceased was working off a standing shot which was the only support to the broken roof; the piece of slate that fell on him would weigh fully three tons.

July 21, 1898, William Rice, single, age 28 years, a miner employed at G. W. Brown's mine, Pinckneyville, was injured by falling clod at 8 a. m. and died when conveyed to the surface about 9:30 a. m. The deceased was loading his car, he heard the noise of the clod working loose, and, instead of staying at the face of his working place he made an attempt to come out and was caught. He knew of the dangerous condition of the place and had promised the mine manager to timber the place before loading any more coal. The clod that fell would weigh about 3,000 pounds.

Angust 25, 1898, John Dalton, a miner, age 22 years, single, was severely erushed by falling roof at the face of his working place in the Willisville Coal Co. mine, located at Willisville, Perry county, and died from the injuries received Sept. 2, 1898. At the time of the accident deceased was in a sitting posture at the right hand side of his working place, when a mass of roof weighing about 1500 pounds suddenly fell striking him with the above result as described.

September 27, 1898, Jeo Marto, a miner, age 29 years, single, emoloyed at the Scott-Wilson Coal Co. shaft No. 2, Fredonia, Williamson county, was cleaning up a fall of slate that had come down the night before on top of some loose coal; he sounded the roof before starting to work and made the remark that it was all right, but in a few minutes afterward a piece of roof weighing about 1000 pounds suddenly fell striking him on the back, he was taken to his boarding house and died from his injuries at 5:30 p. m. the same day.

October 10, 1898, Alfred Reneson, trip rider, aged 22 years, married, leaves a widow. The deceased was engaged as a trip riderr his duty was to accompany the trip in on the engine plane to the inside partings and out again. He was riding on the front loaded car on the engine plane; the trip of ears was moving at an ordinary rate of speed, when the coupling between the first and second cars broke, throwing him and the car he was on against the side of the entry; he was killed instantly,

November 16, 1898, Walter Kenney, a machine helper, age 22 years, single, a resident of Grand Tower employed in the No. 6 mine of the Big Muddy Coal & Iron company, Murphysboro, Jackson county. The deceased was at work at the face of his room shoveling the slack from a machine when a mass of coal weighing about two tons, fell on him, killing him instantly.

November 24, 1898, Edgar McAlpin, laborer, age 23 years, married. leaves a widow and one child, was killed in the mine of the Ohio and Mississippi Valley Coal & Mining Co., Marion. Williamson county. The deceased was coming out of the shaft on the cage with four other men; when about 50 feet up he lost his balance and fell into the west chamber and down the shaft. This was only his third day in the mine.

December 21, 1898, James Vansage, miner, aged 33 years, married, leaves a widow and three children, was killed while at work in a pillar in the mine of the St. Louis & Big Muddy Coal Co., Carterville, Williamson county. He was working off some coal that had been shattered by a shot the night before when a piece of top coal weighing about 200 pounds fell, crushing his head against a pit-car which was close by.

January 17, 1899, George Beck, a miner, age 40 years, matried, leaves a widow and two children, was killed at the face of his working place about 3 a.m., in the Willis Coal & Mining company's mine, Willisville, Perry county. Deceased had prepared three blasts, and when ready to fire placed the squib in the hole. He must have held his lamp near the powder part of squib, as he never moved until he was knocked back by the force of the shot; he was instantly killed.

April 5, 1899, Benj. Hudgens, miner, age 47 years, married, leaves a widow and seven children, was injured at the Ledford mine, Saline county, at the face of his room by a fall of slate. He had tried that morning to take down the slate and failed. He then went to work under it without putting up timbers, and while at work the slate suddenly fell, striking him on the back and head. He died from the injuries received April 7, two days after the accident.

May 3, 1899, John Shanks, age 32 years, single, was instantly killed while at work loading his first car about 7:45 a. m., in room 32 on the 6th west entry, north side, in the mine of the Horn Colliery Co., Duquoin, Perry county. The deceased had fired two shots the night before which knocked out eight props. A miner by the name of Jones was in the room at the time of the accident and was just asking the deceased if the roof was all right. Before he could reply the roof fell, crushing his head against the pit-car, killling him instantly. Jones escaped unharmed.

May 8, 1899, Charles Harris, age 26 years, married, leaves a widow and one child, was killed at the top of the Sato Coal & Mining company's mine, Sato, Jackson county. The deceased was employed as top driver. There had been no work at the shaft this day. Deceased thought he would go into the mine and bring out some mining tools he had there. It was about 8 a. m. when he went down the stairway and brought the tools to the bottom of the shaft; he then went out and asked the engineer if he would get up steam and hoist his tools. It was agreed that the engineer would hoist them in the afternoon.

About 2:00 p m. the engineer started up the engine. Harris walked to the top of the lower landing and stood there until the west cage came up which struck him on the head. He fell backward to the ground and died inside of a half hour afterward.

May 11, 1893, Henry Beaver, miner, age 38 years, married, leaves a widow and three children, was killed while at work in room No. 1, fifth east entry, north side, in the Eden mine of the Western A. Coal & Coke Co., Sparta, Randol; h county. Deceased was getting ready to drill a hole, when suddenly the roof fell, striking him on the back. He died about 3 p. m., four hours after the accident.

June 15, 1899, William Yates, age 24 years, married, leaving a widow and two children; was employed at the Horn Collery Co's mine, Duquoin, Perry county, as a night roadman. About 5 a. m., Yates was coming out, and on reaching the bottom he volunteered and went to help the pump man in his work. The pump would not take water. Yates got a piece of scantling and was prying at the suction pipe when his hold slipped and he fell into the sump and was scalded. The exhaust of the steam pump had been discharging into the sump. He died June 17, two days after the accident.

#### Respectfully submitted,

EVAN D. JOHN.

Carbondale, Ill.

State Inspector of Mines, Seventh District.

#### Fatal Casualities—Seventh District, 1899.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
Aug. 25 Sept. 27 Oct. 19 Nov. 16 24 Dec. 21 1899. Jan. 1 April	August Durbee William Rice John Dalton Joseph Mario. Alfred Reneson William Keney Edgar MeAlpin. James Varsage Geo. Reek Benj. Hudgens tohn Shanks. Charles Harris. Henry Beaver William Yates	22 29 22 22 23 33 40 47 32 26 38 24	Trip rider Mach helper Laborer Miner Driver Miner Laborer	Willisville. Fredonia St. Johns. Gr'nd Tow'r Marion. Carterville. Willisville. Ledford. DuQuoin. Sato. *parta. DuQuoin.	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	2 4 1 3 2 4	i 1	1 2 4 3 4	Falling roof Falling roof Pit cars Falling rood Falling coal Falling from cage Falling roof Falling roof Falling roof Ascending cage Falling roof Scalded in sump

## Recapitulation of Falal Casualties—Seventh District, 1899.

Residence.	No. Occupation.	No. Nature of Casualty N	o. Colliery.	Nσ
Carterville DuQuoin Fredonia. Grand Tower Her:in Ledford Marion Pinckneyv'le St. Johns Sato Sparta Willisville	2 Mach, helper, 1 Miners 1 Top driver 1 Trip rider 1 1 1 1 1 1	1 Falling cage 9 Falling coal 1 Falling roof	1. Big Muddy Coal & Iron Co 1 Brown, G. W., 1 Horn's Colliery Co., 8 Illinois Cent, Coal & I. Co 1 O. & M. Valley Coal Co., 1 Sato Coal Co. 1 Sato Coal Co. Sectivillis Coal Co., Strickland Bros. Western A. C. & C. Co., Willis Coal Co.	

#### Non-Fatal Casualties—Seventh District, 1899.

Date.	Name.	Age.	Residence.	Married.	Single.	Thildren.	Dependents.	Character of Injury.
		-			1 22	_		
1898		1						
July 5,Th	ios. Colombo	17	Herrin		1			Head injured 3
	lv'st'rGraciana			1		- 2	3	Post injured
10 11	ios.M.Campbell in Greenlee	91	Contamilla	1		U	- 3	Body injured
21 170	orge White			;		1	9	Foot injured Back injured Body injured Finger broken 14
16 16	hn Mose	56	Cartorvilla	,	1		_	Finger broken
20 15	real Talley	55	Herrin	1		1		Thumb injured 1
** 90 P	H. Quigley	93			1		_	Elbow injured 1
** 20 C.	E. Wilson	27	Murphysboro.	1		1 1	2	Foot injured 1
26 Lo	ufs Sate	33	Carterville	1			2 1	Leg broken 12
Sept.12 F.	W. W. Philps	20	Murphysboro.		. 1			Foot injured
25 W	illiam Grant	36	Sparta		1			Back injured
let. 5 Sa	m Ronimics	25	Hallidayboro .					Back injured
	hn Knec		Murphysboro.					Body injured
	lyator Piazzia.		**	1				Body injured 1
25 11.	Taylor	24						Hip injured
25 18	ice Banks							Arm broken
_ 31 F F	ank Clayton		Murpdysboro.	1			1	Foot injured
Nov. 1 J.	Batson m. A. Wilson	33		1		3		Hip injured 19
	ont. Kindman	99		i		5 2		Fingers injured
	d Miller		Duthnoin			3		Back injured
	orge H. Putney			1				Back injured 6
	lward Hodgens		ar ar ping soor o.	1		5		Body injured
Dec. 2 Ra	lph Simpson	26	Hallidayboro.	î		1	. 2	Leg broken 18
** 9 A I	bert Hoytan			î		3	4	Leg injured 1
" 27 Jo	seph Costino	23	Murphysboro.		1			
** 28 Ja	mes Walters	34		1		3	4	Foot injured 1
1899								
an. 4 Pe	ter Wagoner	46		1		5		Head injured
	C. Hurst							Hip injured 1
H J 0.	hn Dickey	25	Sparta		1			Ribs broken 4
12 \	m. Brokling	22	Hallidayboro.					Back injured*
16 E.	Ferges	22	Herrin		1			Head injured
17 Ja	mes Brewster hn M. Bandy			1		1	2	Leg injured 1 Foot injured 1 Body injured 6
	. W. Holman	16	Conent	1		1	É	Body injured 6
" 21 Jo	hn Bornolt	10	Cartarville	1	1	*	3	Foot injured
	hn Meehan							Back injured
· 24 An	drew Barker	28		1			- 19	Back injured
Iar. 14 Al	bert Boston	17	• •					Collar-bone broken 1
* 99 Al	onzo Bulz	91	Carterville		1			Ankle injured

<sup>\*</sup> Not recovered July 1, 1899.

## Non-Fatal Casualties—Seventh District, 1899—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of I <b>nj</b> ury.	Time lost-days.
10 14 14 12 22 12 22 12 25 May 4 12 14 19 June 2 12 12 12 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		31 18 22 50 21 38 25 38 29 27 24 18 24 25 42 28	Murphysboro.  Percy Carterville Murphysboro. DuQuoin Hallidayboro. Johnston City Murphysboro.	1  1 1 1 1	1 	5  1 5 1 2 2 3 3 1 1	6 1 1 1 1 1	Hip injured Back injured Leg injured Leg injured Back injured Face and bedy injured Face and bedy injured Finger cut off Knee injured Body injured Body injured Body injured Body injured Body injured Body injured Back injured Head injured Back injured Head injured Back injured Back injured Back injured	7 15 7 * 7 30

<sup>\*</sup> Not recovered July 1, 1899.

## Recapitulation of Non-Fatal Casualties—Seventh District, 1899.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No
Carterville Conant		Blacksmith Cager		Ax Cage		Big Muddy C. & I. Co . Brown & Barwell.	3
DuQuoin Hoiliday boro.	2 4	Carpenter Drivers,	1 19	Crossbar	11	Brown, G. W	
Her'ns Prairie Johnston City Murphysboro.	2	Laborers Loaders Mach, helpers	6	Falling prop Falling rock Machine	9	Goalby & Sons Ill. Cent. Coal & Salt Co Illinois Fuel & Pros. Co	
Percy Pinckneyville Sparta	1	Mach. run'ers Miners Pumpman	20	Mules Pick Pit-cars	1	Muddy Valley M.&M. Co Pope Mining Co St. L. & Big M. C. Co	
St. John		Roadman Timberman	1	Premature blast		Western A. C. & C. Co Williamson Co. C. Co	1
Totals	60		60		60		€

Table Showing the Nature of Injuries, Number of Pevsons Injured, Depende As, Time Lost, with Averages and Percentages.—Seventh District.

				ents.	Тіме	Lost.	of se
NATURE OF INJURIES.	Number	Married	Single.	Dependents	Total days.	Average days.	Per cent injurie
Ankle injured	1		1		14	14	1.67
Arm broken	1	1		1	80	80	1.67
Back injured	13	8	5	30	175	13.5	21.66
Body injured	- 8	5	3	22	246	30.8	13.33
Collar-bone broken	1		1		10	10	1.67
Elbow injured	1		1		10	10	1.67
Face and body injured	2	1	1	2	14	7	3.33
Feet injured	7	5	2	12	79	11.3	11.66
Finger cut off	1	1		6	90	90	1.67
Fingers injured	2	2		5	22	11	3.33
Hand injured	1		1		14	14	1.67
Head injured	7	2	5	6	72	10	11.66
Hips injured	6	3	3	11	229	38.2	10
Snee injured	1	1		2 3	7	7	1.67
egs broken	2	2		3	300	150	3.33
egs injured	3	2	1	6	31	10.3	5
Ribs broken	ï		ī		42	42	1.67
Thumb injured	1	1		2	10	10	1.67
roe injured	1	1		3	15	15	1.67
Totals, averages and percentages	60	35	25	112	1,460	24.3	100.00

# Gallatin County—Seventh District—1899.

				DES	SCF	RIPT	ion.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4 5 6 7	Equality Coal Co. Wm. H. Stader. Wm. McLain John H. Underwood, No.11 Rutler & Smith J. D. Strong M. Carney Leon Yogt. Robert Reid	Shawneetown	30 31 20 25 25 35 30		5 5 5 6 6 6 6 6	Sh. D.	St Hd	В.	10,521 1,200 618 400 1,220 1,200 1,350 145 100	1, 200 618 400 1, 220 800 950	400 400 25
į	Totals								16,754	15, 429	1,325
	Averages										

Whole number of openings reported in 1898,9.

Whole number of openings reported for 1899, 9.

# Hamilton County—Seventh District—1899.

			Description.					1	Оитрит,		
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1 2	J. C. Harper	Flint Dalghreen	8 	2 2.6	1 1	Şţ.			400 240 640	240	

Whole number of openings reported in 1898, 2.

Whole number of openings reported for 1899,2.

# Gallatin County, 1899—Concluded.

	VALUES.			Employes.			ton-	onth	ά	during ployés p.	Acc DEX		
A dilliper.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid duthe year to all emplexecpting office help.	Kegs of powder used.  Number of horses or memployed in or about mine.		
1 23 4 5 6 7 8 9	\$1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	\$0 25 25 25 25 25	\$10, 146 1, 200 618 490 1, 220 960 1, 050 126 100	30 4 2 2 3 4 3 2 2 3 2 2 2 2 2 2 2 2 2 2 2	15 2 2 1 1	45 6 2 2 5 5 4 2 2	\$0 50 50 62 5 50 50 62.5 62.5 62.5 62.5	Mo. 8- 11. Wk. 8- M. Mo. 8- M. Wk.	180 150 140 125 140 150 200 50	\$10, 146 1, 200 618 400 1, 220 900 1, 050 126 100	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
1	\$1 00	\$0.25	\$15,760	52	21	73	\$0 52.4		142	\$15,760	936 14 .		

# Hamilton County, 1899—Concluded.

	VALUES.			EMPLOYES.		ton-	outh-	d	ring		the		CI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed. All other employés.	Fotal employés.	Price paid per gross t hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	vegs of powder used.	Number of horses or memployed in or about mine.	Patal.	Non-fatal.
1 2	\$1 50 1 25		\$600 300	s	8	\$0 62.5 62.5	Wk.	75 60	\$600 300	5 2		2 2	
-			8900	11	11				\$000	7		4	
	\$1 40					80 62.5		68					

# Jackson County—Seventh District—1899.

				DE	SCI	RIPT	ion,			Эитрит.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet	Thickness of coul- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3	Gartside Coal Co., No. 1 No. 3 No. 4 Big Muddy Coal & Iron	Murphysboro.	121 146 148		2 2 2	Sh.	ş.	<u>М</u> .	*36,053 *61,335 *67,575	32, 963 43, 186 44, 474	
	Co., Fo. 5 Big Muddy Coal & Iron	**	150		2	4.4		• •	*148,744	104, 569	44, 175
	Co., No. 6		150		2			•••	*146,346	94, 455	51,891
8	Co., Harrison Wild & Gill, Willis. E. E. Poote Wm. C. Beard		150 130 60 35	7 2.8 7.5	2 1 7	D.	:: Hd	BI.	*127,854 12,870 595 200	72,289 11,570 476 200	55,565 1,300 119
11 12	John C. Ritch. J. H. Presson. Wm. Myer		25 22 24	7.5 7.6 6.6	7777	Sh. D.	Ho. Hd		500 560 700	700	
14 15 16	Oliver Bailey Henry Launders Sato Coal & Mining Co Winning C. & M Co., Big 4	Sato	30 20 35 12		7 2 2	Sh. Sl.	S. Ho	• •	10, 200 4, 800	300 10, 200	
18 19 20	Murphysboro B. M. C. Co., No. 5. S. Argus C. S. Jones Marion Owens.	······································	49 14 20 24	6 6 3.4	2222	Sh. Sh. Sh.			17, 000 687 600 600		100
22 23 24	H. Moos John Juber Big Muddy C. & Coke Co	Oraville	30 30 30 60	3.4 3.6	2 2 7	D. Sh.	и На 8.	• •	540 500 300 62, 678	500 500 300 37, 986	24, 692
$\frac{25}{26}$	Wistev & Dyer. M. Valley M & Mfg Co Henry Langwith	Hallidayboro.	30 166	7	7		Ho S.		*172, 381 893	300 112,567 893	59,814
	Totals								875, 711	592,715	282,936
	Averages										

Whole number of openings reported in 1898, 21.

Number of new mines or places opened during the year, 6

Whole number of openings reported for 1899, 27.

<sup>\*</sup> Machine mining, in part, a total of 521,645 tons at 29 cents per ton.

#### COAL IN ILLINOIS.

# Jackson County, 1899—Concluded.

		VALUES	٠.	Ex	(PLOY)	es.	ton-	onth	Jn.	nring loyés		or mules about the	Ae DE	CCI- NTS
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3	\$1 15 1 25 1 25	80 75 75 75	841, 225 67, 594 72, 929	25 50 40	20 33 37	45 83 77	\$0.36 36 36	s <sub>:</sub> M.	320 200 250	\$23,883 43,817 44,291	350 600 600	8 7 12		
1	1 00	50	126,657	108	92	200	36	٠,	253	94,416	1,417	16		10
5	1 00	50,	120, 401	145	60	205	36		266	72,993	1,412	18	1	14
67890123456	1 00 1 00 1 50 1 00 1 00 1 00 1 00 1 00	50 70 1 00	100,072 12,180 834 200 500 560 700 600 390 10,200 4,800	115 16 2 1 3 3 2 2 2 201 7	55 8 1 1 1 1 1 1 1 1 1 1 1 1 5	170 24 3 1 4 4 4 3 3 4 3 3 1 1 1 1 1 1 1 1 1	36 36 75 30 30 30 30 30 30 36	W	240 300 150 140 182 132 150 182 182 188 120	63, 278 8, 760 583 † 260 272 385 300 100 5, 649 360		6 3	i	
7 8 9 9 12 12 13 14 15 16 17	1 15 1 00 1 00 1 00 1 00 1 00 1 00 1 00	40 75 60	18, 800 687 575 600 540 500 300 43, 305 300 116, 617 1, 116	27 1 2 2 2 2 1 2 70 4 170 3	16 1 1  37 1 82 1	43 2 3 2 1 107 5 252 4	36 36 36 36 36 36 36 36 36	W. S.M. W.	209 212 150 180 172 200 150 146 40 236 150	12,003 414 300 200 140 1 50 38,419 240 96,511 420	23 50 50	13 13 13 13 130		
			\$743,392	S26	469	1, 295				\$508,493		146	2	36
	\$1 00.6	<b>80</b> 52 .					\$0 36		189					

<sup>†</sup> Amount of wages paid not reported.

# $Jefferson\ County-Seventh\ District-1899.$

				DE	SCI	RIPT	ION.		(	Эптрит.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1 2	Mount Vernon Coal Co G. W. Shelton	Mt. Vernon Opdyke	825 6	4.10 1.6	5 12	Sh. St.	S. Ho.	М. В.	* 32,407	800	
	Totals								33, 207	23, 207	10,000

<sup>\*</sup> Machine mining 33 cents per ton, for 24,307 tons.

Whole number of openings reported in 1898, 2.

Whole number of openings reported for 1899, 2

 $Johnson\ County-Seventh\ District-1899.$ 

				DES	SCR	IPT	ion.		(	OUTPUT,	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift,	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4	New Burnside Coal Co D. J. Wallace McMichael & King Hampton & Son Walter Smith Totals	::	30 20 20 20 20	$\frac{3.4}{3.4}$	3	Sh. D. 	Ho. Hd	В.	$ \begin{array}{r} 3,000 \\ 550 \\ 600 \\ 400 \\ 406 \\ \hline 4,956 \end{array} $	2,000 550 550 400 406 3,906	50
	Averages										

Whole number of openings reported in 1898, 5.

Whole number of openings reported for 1899, 5.

### Jefferson County, 1899—Concluded.

1		VALUES		Ем	PLOYE	s.	ton-	month-	ni.	loyés		Acci-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-me ly or weekly.	Days of active operation	Total wages paid duthe year to all emylexecpting office help.	Kegs of powder used.	Number of horses or n enployed in or about mine. Fatal.
1 2	\$1 00 1 00	\$0.75	\$29,907 800 830,707	50 3 .	32	82 3 85	\$0 40 40	s.M.	240 200	\$29, 907 800 \$30, 707	400 5 405	2
	81 00	80 75					\$0.40		220			

# Johnson County, 1899 -Concluded.

		VALUE	s. ,	Ем	PLOYE	s.	- Ho	nth-	ď	ring				CI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross t hand mining.	Paid mouthly, semi-month ly or weekly.	Days of active operation	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or memployed in or about mine.	Fatal.	Non-fatal.
1 2 3 4 5	\$1 00 1 00 1 00 1 00 1 00	80 50 50	\$2,500 550 575 400 406 84,431	10 3 2 2 2 2 2 2	6 i 	16 3 2 2 2 3 	80 37 65 45 45 45 45	S-M.	112 125 120 108 140	\$1,110 300 100 120 340 \$1,970	50 20 13 12 14	3 1 1 1 1 1 1		
	81 00	80 50					\$0.42.4		121					

### Perry County—Seventh District—1899.

				DE	SCI	RIPT	ion.		(	UTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1 I	Ou Quoin Union Coal Co., Browning	Du Quoin	45	6.6	6	Sh.	St.	В.	100,000	55,000	45,000
2 I	Ou Quoin Union Coal Co., Enterprise		90						100,000	55,000	45,000
4 J 5 J 6 E	Ou Quoin Union Coal Co., Egyptian ohn C. Porter, Lake upiter Mining Co., Eaton dorns Colliery Co., Horns reenwood & Davis.	::	90 62 38 80	6.6 6	6 6 6		**	**	52,000 9,599 5,000 123,829	27,000 6,924 5,000 80,000	25,000 2,675 43,829
8 F 9 M 10 ( 11 T	Greenwood. Pope Mining Co forris Bros. & Co 'ity Coal Co 'hos. J. Howell.		38 44 22 32 25		6 6 6 6	:: Sl.	 Ho.	**	54,000 24,654 24,000 2,500 3,000	27,000 15,230 18,000 1,250 2,700	27,000 9,424 6,000 1,250 300
13 M 14 S 15 T 16 C 17 T 18 H 19 H 20 E 21 V 22 C 23 T 24 J	II. Ceutral Coal & Salt. Co., St. John. I. F. Harvey. I. F. Harvey. I. G. God. I. G. God. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. I. G. G. G. G. G. G. G. I. G. G. G. G. G. G. G. I. G. G. G. G. G. G. G. G. I. G. G. G. G. G. G. G. G. G. G. I. G. G. G. G. G. G. G. G. G. G. G. G. G.	Pinckneyville	300 28 80 200 90 86 35 72 122 40 20 25 80	6	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Sh	St. Ho. St.	M.	109, 500' 34, 633 9, 600 77, 477 16, 000' 2, 565' 1, 000 14, 238 27, 427 400 300' 3255 86, 975'	74, 200 400 23, 914 9, 660 46, 487 14, 000 2, 565 1, 000 14, 238 25, 689 400 300 325 66, 975	35, 300 10, 719 600 30, 990 2, 000 1, 738 20, 000
									879,422	572,597	
T	Averages										

Whole number of openings reported in 1898, 24.

Number of new mines or places opened during the year, 3.

Number of mines exhausted or abandoned during the year, 2.

Whole number of openings reported for 1899, 25.

Tamoroa Colliery Company on strike during the year.

### Perry County, 1899—Concluded.

		VALUE	is.	Ex	IPLOY	ES.	ton—	onth-	'n.	ring		mles t the	A	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employes.	Price paid per gross ton- hand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1	<b>\$</b> 0 80	\$0 30	\$57,500	75	60	135	\$0 30	S-M.	175	\$63,400	2, 211	20		
2	80	30	57,500	64	49	113	36		175	60,600	2, 121	18		
3 4 5 6	75 82.5 75 75	20 25 25	25, 250 6, 381 3, 750 70, 957	23 30 28 145	17 11 10 40	40 41 38 185	36 36 36 36	**	165 108 48 250	31, 463 5, 456 3, 200 64, 100	1, 242 384 120 3, 000	6 3 6 18		
7 8 9 10	95 80 75 1 00 1 25	45 37 15 90 60	37, 800 15, 671 14, 400 2, 375 3, 555	80 29 40 4 4	37 9 12 2	117 38 52 6 5	36 36 36 36 36	  W.	193 225 200 264 200	23,000 12,327 13,400 1,400 2,400	1,550 625 1,200 50 125	6 4 7 1 2		···i
12 13 14 15 16 17 18 19 20 21 22 23 24 25	88 1 00 75 70 70 85 1 10 1 10 72 5 70 1 00 1 00 1 00 70	35 40 50 20 50 50	77, 651 400 22, 223 6, 600 88, 739 12, 900 2, 822 1, 107 10, 323 18, 156 400 300 325 50, 883	100 2 41 14 85 10 3 20 30 1 1 1 85	58 1 22 77 27 6 3 1 6 8 8 1 1 1 28	158 3 63 21 112 16 6 4 26 38 2 2 2 113	36 36 36 40 40 40 40 40 40 40 40 40	S.M. JS-M. .M.	243 90 221 220 149 200 190 150 275 150 132 300	75,000 19,894 2,400 41,104 7,800 928 500 7,119 15,190 * * 40,800	720 15 800 300 2, 126 550 89 43 500 1, 000 18 14 15 2, 000	18 1 9 4 4 2 2  3 3 1 1 1 1		1
	\$0 78 27	\$0 29	\$537,961	918	415	1,336	\$0 369		185	\$491,481	20,818	153	6	5

<sup>\*</sup> Amount of wages paid not reported.

#### Randolph County—Seventh District—1899.

	•			DES	CR	IPTI	ON.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
2 3 4 5 6 7 8 9 10 11 12	Ill. Fuel & Pros. Co. No. 2. Ill. Fuel & Pros. Co. No. 2 Coult rville Min. Co. No. 1 Donk Bros. C. & C. Co. Win. Goalby & Sons. No 2 Win. Borders, "L. M'dy," Rosborough C. Co. Henry Dean.	Coulterville Filden Percy Blair	140 80 75 37 36 370 180 70 65 30 20 18 24	6 6 6 5 6 6 6 5 5 5 6	6 6 6 6 6 6 6 6 5 5 5 6	Sh.	S  Hd Ho.	В.	132, 245 74, 401 12, 376 5, 813 15, 296 25, 091 55, 040 26, 381 14, 000 10, 773 300 400 2, 207 374, 323	109, 222 74, 401 12, 376 5, 813 15, 296 23, 891 48, 384 26, 381 14, 009 9, 773 300 400 2, 043 342, 280	1,200 6,656 1,000

Whole number of openings reported in 1898, 15.

Number of mines exhausted or abandoned during the year, 2.

Whole number of openings reported for 1899, 13.

# Randolph County, 1899—Concludea.

		VALUE	s.	Ем	PLOYE	s.	ton-	ath-	n.	ring		ules The	Ac	CCI-
Number.	Average value of hump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross thand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2 3 4 5 6 7 8 9 10 11 12 13	\$0 65 80 80 67 67 75 65 70 65 80 1 00 1 00 1 00	\$0 25 30 20 65	\$76,750 59,521 9,901 3,895 10,245 18,278 32,781 11,467 9,100 8,468 300 400 2,125	107 50 10 7 10 25 44 40 31 25 1 25	38 13 4 4 20 16 9 5 12 1 1	145 63 14 11 11 48 60 49 36 37 2 3 3	\$0 40 40 40 40 40 40 40 40 40 40 40 40 40		268 250 230 97 177 227 258 217 145 160 108 112 200	\$73, 622 37, 200 6, 188 3, 720 9, 777 12, 546 29, 458 12, 970 8, 700 6, 420	4,010 1,200 400 191 383 600 1,761 768 200 600 12 17	5 1 3 2 5 4 3 3 4 3 3	1	2  1  2 
			8250, 234	358	125	486				\$200, 151	10, 233	41	1	5
	80 70.7	80 25.5					\$0.40		182			•••••	!	

<sup>\*</sup> Amount of wages paid not reported.

### Saline County—Seventh District—1899.

				DES	SCF	IPT	on.		(	OUTPUT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Davenport C.Co. Ledford Harrisburg M. & Coke Co J. B. Blackman Dorris & Evans Strickland Bros Geo. Rilying Wm. Butler John Hawkins Teal & Williams H. A. Stitig Charles Tranmel A. C. Coydill Noah Stiff R. M. Berry John Yates James Lyod Charles Hall Totals  Totals	Ledford	21 20 18 20 25 40 40 40 30 10 18 20 25	8 4.10 4.10 4.8 4.8 3 3 3 3 3 3 3 4	556666655555556555555555555555555555555	Sh Sl	St. Ho. Ho. Ho. Ho.	B.	62, 943 25, 300 1, 140 600 900 400 1220 220 280 280 125 110 100 25 122 25 1, 110 200	15,000 1,140 600 900 400 120 220 280 125 110 100 25 120 175 280 1,110	10,300
	Averages			· · · · ·							

Whole number of openings reported in 1898, 15.

Number of new mines or places opened during the year, 3.

Whole number of openings reported for 1899, 18,

#### Washington County-Seventh District, 1899.

				DES	CF	RIPT	ion.			OUTFIT.	
Number.	Name of Operator.	Postoffice.	Depth of coal-feet.	of Inc	Geological No. of seam	е о	Steam, horse or hand power	Mined or blasted	Total tons pro- duced.	Tons of lump coal.	Tons of other grades
1 2 1 3 4 6	Alexander Murray P. J. Breuggerman Adam Kuhn Okawville W. S. C. & Co. Totals Averages	DuBois Okawville	320		6	Sh. ::	s.	В.	15, 723 5, 627 11, 000 2, 110 34, 460	5,000 8,000 1,760	3,000 350

Whole number of openings reported in 1898, 4.

Whole number of openings reported in 1899, 4.

# Saline County, 1899—Concluded.

		VALUE	s.	Ex	PLOY	Es.	ton-	nth	į.	ring oyés		tthe	A DE	CCI-
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross t band mining.	Paid monthly, semi-month- ly or weekly.	Days of active operation.	Total wages paid during the year to all employés excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Patal.	View fines.
1234567890123	\$0 75 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 0	S0 40 60	\$44,763 21,180 1,140 600 900 400 120 220 280 125 116 100 25	68 25 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	31 9 1 1 1 1 	99.34 4 3 4 3 1 2 2 2 2 2 1 1 2 3 2 2 5 2	80 30 30 30 50 50 50 50 50 50 50 50	s-M. W	287 240 100 92 85, 82 80 100 110 45 46 31	\$12,413 3,337 500 585 *	3,000 460 20 12 7 36 66 33 34	8 3 1 1 1 1 1 1 1	i	
4 5 6 7 8	1 00 1 00 1 00 1 00 1 00		120 175 280 1,110 200	2 1 2 3 2	·····2	3 2 5 2	50 50 50 50 50		$   \begin{array}{r}     32 \\     90 \\     102 \\     170 \\     102   \end{array} $	65 112 756 75	10 7 35 10	2 1 1 1 1		
			\$71,848	125	48	173				\$15,173	3,599	23	1	
	\$0 81.8	80 52					\$0 31.1		101					

<sup>\*</sup> Not reported.

# $Washington\ County,\ 1899{\rm-Concluded}.$

		VALUES.		Ем	PLOYE	s.	tom	nth-	ä	during iployés lp.		2+ DI	CCI-
Namber.	Average value of lump per ton at the mine.	Average value of other grades,	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per screened —hand mining.	Paid monthly, semi-month ly or weekly.	Days of active operation.	Total wages paid du the year to all empl excepting office help.	Kegs of powder used.	Number of horses or ma employed in or about mine. Fatal.	Non-fatal.
1 8 2 3 4	80 85 85 75 1 37 <sup>1</sup> 2	80 75 50 37 <sup>1</sup> 2 1 12 <sup>1</sup> 2	\$13, 160 4, 564 7, 125 2, 814	22 10 25 4	7 5 12 2	29 15 37 6	\$0 40 45 33 621 <sub>2</sub>	S-M. M. W.	250 160 120 195	\$9,434 3,761 5,000 1,240	320 250 200 70	2 · · · 3 · · ·	
	20 95 1	\$0 56.7	\$27,663	61	26	87	 \$0.40		151	819, 435	870	8	

### Williamson County—Seventh District—1899.

2 C:	Name of Operator.  t. Louis Big Muddy Coal Co., Dawes	Postoffice.	Depth of coal-feet.	Thickness of coal- feet and inches.	Geological No. of seam	Shaft, slope or drift.	Steam, horse or hand power.	Mined or blasted.	Total tons pro- d <b>nc</b> ed.	Tons of lump coal.	Tons of other grades
2 C	Co., Dawes						1	1			
5 R J O O O O O O O O O O O O O O O O O O	arterville Goal Co., Bun 1, Prosperity. 1, Prosperi	Spillertown Herrings Lake Cr'k P.O Crab Orchard	90 60 65 60 80 40 40 40 150 25 20 20 25 7 8 8 8	7 77777777777775.66 55.66 55.66 55.677	7 7 7 7 7 7	Sh Sl St Sl Sl	S Ho Hd. Hd. Hd	B1.	300, 591, 122, 135, 122, 135, 142, 155, 143, 143, 143, 143, 147, 100, 140, 140, 140, 140, 140, 140, 140	182, 890 66, 570 51, 714 53, 850 53, 850 60, 950 90, 350 103, 723 103, 723 104 400 240 1, 500 220 230 270 55 85	117, 701 56, 245 30, 572 22, 198 24, 504 49, 879 7, 650 100 31, 223 66, 999 25, 005
5.S.	W. Notsinger. C. Howells D. Ward Totals Averages	Blairsville Pulleys' Mill.	80 30		7 1 	Sh. Sl.	S. Ho.	М.	1,800 1,078,755	300 900 645, 479	100 900 433, 276

Whole number of openings reported in 1898, 26.

Number of new mines or places opened during the year, 3.

Number of mines exhausted or abandoned during the year, 3.

Whole number of openings reported for 1899, 26.

<sup>\*</sup> Machine mining, price paid 23 cents per ton.

<sup>†</sup> Machine mining, 28,305 tons, at 29 cents per ton.

# Williamson County, 1899.—Concluded.

		VALUES.		Ем	PLOYE	s.	ton	onth-	'n.	oyés		rules t the	A o	CCI- NTS
Number.	Average value of lump per ton at the mine.	Average value of other grades.	Aggregate value of total product.	Average number of miners employed.	All other employés.	Total employés.	Price paid per gross hand mining.	Paid monthly, semi-monthly or weekly.	Days of active operation.	Total wages paid during the year to all employes excepting office help.	Kegs of powder used.	Number of horses or mules employed in or about the mine.	Fatal.	Non-fatal.
1 2	80 70.5 85	\$0 33.3 35	8168, 132 77, 958	226 80	84 50	310 130	\$0 30 30	s-M.	304 254	\$156, 240 61, 242	8,880 3,210	42 20	1	6
3 4 5 6	80 80 55 1 00	30 30	50,543 49,739 354 3,531	45 55 5 4	22 34 8 1	67 89 13 5	30 30 30 30	 W.	283 226 42 200	42,902 38,181 1,200 1,553	1,411 1,624 50 90	11 1 1		
7 8 9 10 11	70 70 80 J 00	38 35 25 75	35,041 61,629 9,393 475	92 120 22 2 2 35	28 85 15,	120 205 37 3 2 74	30 30 40	S-M.	129 200 150 60	27, 505 48, 969 8, 379 400	1,651 1,626 439 14	12 18 3		
11 12 13 14 15	1 00 70 69 90 70	36 55 50 30	700 35,532 108,418 820 31,584	35 170 3 55	39 75 1 29	2, 74 245 4 84	30 45 30	S-M. S-M.	120 185 275 90 130	506 25, 932 90, 916 600 25, 099	900 5, 126 40 1, 420	9 12 1 5	i	6
16 17 18 19	75 1 00 1 00 75	30	300 240 1,500 300	33 33	1 1	4 3 4	45 45 45 45	w. 	70 120 200 80	200 125 1,000 300	1, 420 18 6 75 15	1 2	::	
20 21 22 23 24 25 26	1 00 75 75		230 203 60 56	2 1 2 1		3 2 1 2 1 2 3	45 45 45 45		75 70 24 35 25	100 30	12 24 2 1 2 20 25	1 2 2 2		
24 25 26	75 75 1 25 1 25	75 1 00	64 375 2,025 \$639,202	943	481	2 3 5 1,427	45 50 50	::	25 50 200	240 1,500 8533,149		1 150	_	 
	80 73.7	80 37.7			453	1,421	\$0 30		138				. *	

I Amount of wages not reported.

#### Recapitulation by Counties—

		Mı	NES				1	PRODUCTS			v	ALUES.
Counties.	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	Total tons produced.	Tons of lump coal.	Tons of other grades.	Tons shipped.	Tons consumed or wasted at the mines.	Average value per ton of lump at the mines	Average value of other grades per ton at the mines.
Gallatin	9	1	8			16, 754	15,429	1,325	10,021	200	\$1 00	80 25
Hamilton	2		2			640	640				1 40	
Jackson	27	12	15	6		875,711	592,715	282,996	783, 258	59, 628	1 00.6	52
Jefferson	2	1	1			33, 207	23, 207	10,000	22, 407	2,400	1 00	75
¬hnson	5	1	4			4,956	3, 906	1,050	3,000		1 00	50
_erry	25	17	8	3	2	879, 422	572,597	306, 825	801,694	43,964	78.27	29
Randolph	13	10	3		2	374, 323	342, 280	32,043	341,268	9, 111	70.7	25.5
Saline	18	, 2	16	3	ļ.,	94, 148	76,864	17, 284	81, 103	2,840	81.8	52
Washington	4	3	1			31,460	28,438	6,022	19,000	5, 202	85.4	56.7
Williamson	26	10	16	3	3	1, 078, 755	645, 479	433, 276	1,003,206	50,606	73.7	37.7
Total	131	57	74	15	7	3,392,376	2,301,555	1,090,821	3,064,957	173, 951		
Averages.											\$0 82.24	\$0 39.35

Whole number of openings reported in 1898, 123.

Number of new mines or places opened during the year, 15.

Number of mines exhausted or abandoned during the year, 7.

Whole number of openings reported for 1899, 131.

#### Seventh District-1899.

	Es	IPLOY	ES.	s of	per	ring	powder	and	CASUA	LTIES	1	MAC:	HINES.
Aggregate value of total product	Number of miners.	Number of other employés.	Total employés.	Average number of days of active operation.	Average price paid per gross ton for hand mining	Total wages paid during the year to all employes excepting office help.	Number of kegs of poursed.	Number of horses mules employed in about the mines.	Killed.	Injured.	Number of mines using machines.	Number of machines in use.	Total tons cut by machines.
815, 760	52	21	73	142	\$0 52.4	\$15,760	936	14					
900	11		11	68	62.5	900	7	4					
743, 392	826	469	1, 295	189	36	* 508,493	15, 657	146	2	36	7	41	a 521.64
30, 707	53	32	85	220	40	30, 707	405	8			1	5	b 24,3
4, 431	19	7	26	121	42.4	1,970	139	7					
537, 961	918	418	1,336	185	36.9	† 491,481	20,818	153	6	5	1	4	b 56,66
250, 234	358	128	486	182	40	‡ 200, 151	10, 233	44	1	5			•••
71,848	125	48	173	101	31.1	18, 173	3,599	26	1				
27, 663	61	26	87	181	40	19, 435	870	8					
639, 202	943	84	1, 427	138	30	§ 533,149	26, 684	150	4	14	3	14	c 205,0
32, 322, 098	3, 366	1,633	4,999			\$1,820,219	79,348	557	14	60	12	64	807,69
· • • • • • • • • • • • • • • • • • • •				159	\$0 34.5								

<sup>\*</sup> Two mines amount of wages paid not reported.

Average price paid for machine mining in the district, 28.1 cents per ton.

<sup>†</sup> Four mines amount of wages paid not reported.

I Two mines amount of wages paid not reported.

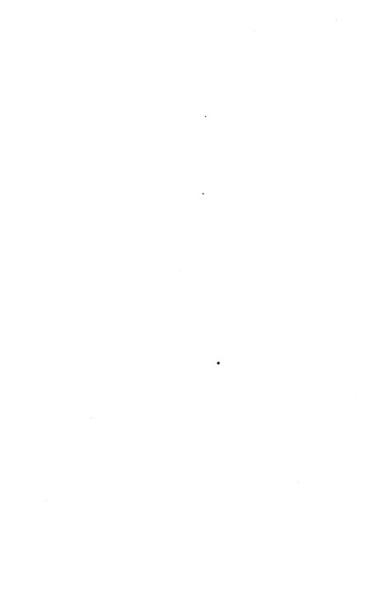
Ten mines amount of wages paid not reported.

<sup>?</sup> Three mines amount of wages paid not reported.

a Price paid for machine mining, 29 cents per ton.

b Price paid for machine mining, 33 cents per ton.

c Average price paid for machine mining, 27.75 cents per ton.



# APPENDIX.

REGISTER OF CERTIFICATED—

MINE MANAGERS.

HOISTING ENGINEERS.

MINE EXAMINERS.

REPORT ON INSPECTION FEES.

REVISED MINING LAW AND OTHER LAWS
REPORTS OF FREE EMPLOYMENT OFFICES.



# REGISTER OF CERTIFICATED MINE MANAGERS. HOISTING ENGINEERS AND MINE EXAMINERS.

Note—This list includes all the mine managers to whom certificates were issued prior to January 1, 1900.

The names which are printed in italic are those who hold both certificates of service and subsequent certificates of competency acquired through examination.

The names which are followed by the abbreviation "ex." are those who have exchanged certificates of service for those of competency, without examination, under the provisions of the amendment of 1895.

The post office addresses here given are those recorded at the time the certificate was issued, and in many cases are not the present addresses of the certificate holders.

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

Name.	Postoffice.	Name.	Postoffice,
Adams, Charles T	Roshoro	Bartlett, Thomas, ex	Cuba
Adams, J. M	Wanlock	Bashong, Andrew	Danville
Ainsworth, Samuel	Taylorville	Barwell, John	Marissa
Ainsworth, Samuel, Jr		Bates. W. H	Winchester
Ainsworth, Thomas			''
Aitken, James		Baumer, Fred	Marquette
Anderson, W. C	Elmwood	Bauer, Valentine	
Anderson, James	Ladd	Baxter, William	
Andreas, Aug	Relleville	Beaghan Peter	Cantrall
Angel, $Hiram$		Beattie, John	Danville
Angell, Charles		Beatty, James	Mascoutah
Applett, William R	Springheid	Beatty, James H	
Argyle, Joseph	Coal City	Becker, F. W	Pinckneyville
Atkinson, Edward			
Atkinson, William	Murphysboro	Bell, Richard	
Atkinson, William			Streator
Armstrong, Thosmas J			Nilwood
Archer, John			
Aston, Hubert, ex	Fairmount	Bennett, James	Odin
Archibald, David			
Ax, John	Edwardsville	Berkstresser. W. A	
Axford, Thomas	Petersburg	Betts, Joseph E	Belleville
		Betz, Charles C	
	_	Bevard, John J	
Baker, Gustav	Streator	. Bevard, F. C	
Back, Thomas			Sorento
Bailey, William	Athens	Beggs, Samuel, ex	Clark City
Bailey, Joseph	DuQuoin	Biebel, Henry, ex	Rentchler
Ball, Edward		Biggins, James	Sorento
Bangart, Henry			O Fallon
Barlow, Henry	Coffeen	Bird, George W	
Barnett, Oliver	Bryant	Birtin, Henry	Pana ,
Barron, James, ex	!Cantrall	Birtley, William P	Springheld

# Mine Managers—Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Blair, Gus Boettcher, F. J Boston, G. W.	Murphysboro	Cruickshapks, Wm Cryer, James T	Middle Grove
Boettcher, F. J	New Athens	Cryer, James T	C X7 - 11
Boston, (†, W	Murphysboro	Cumming, Ambrose B	Sparland
Boston, James	DuQuoin	Cumming, Ambrose B. Cumming, James P. Cumming, John P. Cumming, Thomas S. Cumming, D. H. Cunningham, Thomas Cunningham, Cormick.	
Bottomely, Edward	Oglesby	Cumming, John P	Braceville
Bottomely, John	***	Cumming, Thomas S	Gardner
Bowers, Robert	Wenona	Cumming, D. H	Girard Springfield
Dagahan Lamas 1	Braidwood Greenview	Cuppingham Compiek	Springfield
Bowie, James Bracken, James A Bradenburger, F. Brockhouse, Samuel Brigham, Wm	Belleville	Cummingham, Cormick	opringheid
Brockhouse Samuel	Caseyville		
Brigham, Wm	Marissa	Daenzer, Anton	Belleville
Brown, John	Glen Carbon	Dale, Henry	Murphysboro
Brown, John Brown, William J. Brown, William F. Brown, F. M.	Coal City	Dale, Henry	Fredonia
Brown, William F	Pontiac	Daniels, James	Belleville
Brown, F. M	Farmington	Daniels, Samuel	
Browning, J. M Bru-ckner, Emil	DuQuoin	Date. John Daniels, James Daniels, Sanuel Daniels, William Davis, Caleb Davis, J. H Davis, Thomas Davis, William Davis, William Davis, William Davis, William	Lincoln
Bru-ckner, Emil	Staunton	Daris, Cateo	Commsville
Brueggeman, George Bulmer, John, ex	Belleville	Davis, J. H	Dunformline
Bulmer. Benjamin	St. John Muddy Valley	Davis P I	Cuba Dunfermline Percy Litchfield
Bundy, John	Streator	Davis William	Litchfield
Burdett, J. P	Colchester		DuQuoin
Burke, George, ex	Peru	Davison, James	Sparta
Burke, George, ex Burkhardt, John B	Mt. Olive	Davison, James Dawson, Richard	Athens
		Deans Henry	Percy
		Denny, John J. Denny, Lawrence Devlin, Henry Devlin, Thomas H.	Percy Springfield
Cairns, John	Moweaqua	Denny, Lawrence	Springfield
Callear, Isaac	Pottstown	Devlin, Henry	Toluca
Callear, Isaac Cameron, David J Cameron, D. S., ex Campbell, William Campbell, Frank J Campbell, Thomas M Campbell, H Cambbell,  Pana	Diamond, Peter	Spring Valley	
Campbell William	Sorento Sandoval	Dick, Robert	Toluca. Spring Valley DuQuoin
Campbell Frank J	Athens	Dickenson, James E	Belleville
Campbell, Thomas M	Athens Pinckneyville	Dickerson, J. L	Danville
Campbell, H. J.	Assumption	Dickerson, J. L Dodd, William	Cable
Canfield, R. A	Madisonville, Ky.	Dodge, H. N	Cable St. David
Canfield, R. A Carson, J. H	O'Fallon	Donahoo Ismae	Carterville
Carter, Charles	Birkner	Donaldson, William	Kanglev
Carter, George		Donaldson, James W	Peoria Carterville
Cartlidge, Oscar	Gillespie	Donaldson, William Donaldson, James W Donaley, James Dooley, Harry	Carterville
Carroll, John Catheart, Matthew, ex	O'Fallon	Dooley, Harry	Springfield Glenburn
Chalderton, John	Tilden Lenz Station	Doughty Lumes	Danville
Cherry John T	Seatonville	Dougherty Deniel	Virginia
Cherry James	Seaton vine	Dooner, P. J. Doughty, James. Dougherty, Daniel. Dowell, Thomas.	Muddy Valley
Cherry, John T Cherry, James Cherry, W. S. Checkin, David	Streator	Downing. Timothy	Virginia Muddy Valley Briar Bluff
Checkin, David	Reed City Braceville	Droko Goorgo	Streator
	Braceville	Duddey, John Dudek, John Duffner, J. W. Dungan, Charles	Pana
Christie, David	Murphysboro	Dudek. Johh	Kinmundy
Church, Henry M	Marissa	Duffner, J. W	Belleville
Clark, Martin	Decatur Braidwood	Duncan, Charles Dunham, John F	Streator
Clark, Quintin Clark, Thomas Clayton, John F Clelland, Robert Clifford, Michael J	Decatur	Dunlan John F	Springfield
Clayton John F	Troy	Dunlop, John Durkin, Michael	Odin Sunfield
Clelland Robert	Braidwood	Durkin, michael	Summera
Clifford, Michael J	Kewanee		
Coar, Firman Collier, Frank J Collins, Richard J., ex Condis, Malcom Conity, Patrick	Worden.	Edwards, S. E Edwards, Thomas	Centralia
Collier, $Frank J \dots$	Bartonville	Edwards, Thomas	Springfield Wesley Edwardsville
Collins, Richard J., ex	O'Fallon Spring Valley DuQuin Nilwood	Ehret, Frank A Eller. William	Wesley
Condis, Malcom	Spring Valley	Eller. William	Edwardsville
Conity, Pairick	DiiQuin	Emery, Charles	Breese Belleville
Cooper, Charles Cook, Robinson	Nilwood	Emery, Joseph	Mt. Olive
Conners William	Riverton	English Thomas	Streator
Connors, William Conrad, William	Toluca Springfield	Erwin William	Belleville
Costello, Henry	Pana	English, Ralph English, Thomas Erwin, William Essex, George W.	Soperville
Costello, Henry	Pana Grape Creek	Evans, George Evans, John Nine, ex	Lincoln
Corrigan, James	Marseilles	Evans, John Nine, ex	LaSalle
Cowell William :	Assumption	Evans, John O., ex	O'Fallon
Cowen, william	Murphysboro	Evans, Albert E	Streator
Craine, John E		Evans, William,	Norris
Craine, John E.			
Craine, John E. Craine, B. S. Crampton, Edward	Vi-1.	Evans, John O., ex. Evans, Albert E. Evans, William. Evans, John O., Jr.	Norris Caseyville
Craine, John E. Craine, B. S. Crampton, Edward Crauch, J. E. Crantheler, Thomas	Virden		
Craine, John E. Craine, B. S. Crampton, Edward Crauch, J. E. Crankshaw, William	Virden Decatur		
Costor, George Corrigan, James Cowell, William Craine, John E Craine, John E Crampton, Edward Crauch, J. E Crankshaw, Thomas Crankshaw, William Crighton, Robert Cruickshanks, John	Virden Decatur	Fagan, Michael. Fagan, Patrick T. Fohl, Bernard, ex.	

# Certificates of Competency--Continued.

Name.	Postoffice.	Name.	Postoffice
arlie James	Gilchrist	Hall Matthew	Braceville
airlie, James alcetti, John B	Glen Carbon	Hall, Matthew Hainsel, Daniel Halbert, J. A Hamilton, Thomas	Lenzhurg
arnworth, Lawrence, ex.	Barclay	Hulbert J. A	Westville
elker John	Danville	Hamilton Thomas	Nashville
elker, Johnellows, Edward	Streator	Hanley, John H. Hardin, Joseph H. Harding, Enos Harding, Thomas F.	Springfield
effows, Edward erguson, John erguson, Walter infrack, M. M. leming, James	Reed City Braidwood	Haniey, John H. Harding, Joseph H. Harding, Enos Harding, Thomas F. Harding, William Harkes, William	Vandercook .
erguson, Walter	Braidwood	Harding, Enos	Birkner
infrack, M. M	Раца	Harding, Thomas F	Danville,
leming, James	Decatur	Harding William	Lebanon
leming, Jacob	Lawanaa	Harkes, William	Coal City
letcher, John letcher, John J letcher, T. C. letcher, William	LaSalle	Harper, John Harrison, Earnest Harrison, John	Colchester
letcher, John J	Collinsville	Harrison Earnest	Streator.
letcher T C	Comisvine	Harrison John	Virden
letcher William		Harrison, John, ex	Odin
olev George ev	LaSalle		
oley, George, ex	Manleton	Harran James T	Sentonville
orsythe, Peter orsythe, Robertoster, William	Centr lia	Hartman Frank ev	Murphyshoro
are with a Robert	Murphysboro	Hartman Wm	Freehure
ester William	Lincoln	Hawking George M	Grane Creek
	Marion	Hough Fred	Glan Carbon
ranais T L	Braidwood	Horos Honry	Stronton
word William H	Danville	Hobourtanit Danson	Stanistan
rancis, T. Lrazeē, William H ranken, Benard	Lincoln	Hobenstreit, Bruno	etatimon
reer, James	Pagrin	Hoborotvoit I D	**
riska, lan	Peoria Edwardsville	Harrison William Harron, James T. Hartman, Frank, ex. Hartman, Win. Haskins, George H. Hanck, Henry Hanck, Freny Hebenstreit, E.W. Hebenstreit, E.W. Hebenstreit, J. P.	Dontalilia
ritz, William, ex	Breese	Henderson, Edward	Sampatiald
ritz, wiiilain, ex	Dreese	Henderson, Edward	Springfield Coal City
		nenderson, Joseph	Marissa
attention Minhoel	Dotonoliumo	Henderson, Joseph Henderson, Thomas Henley, J. H. Henley, Richard	New Athens
afligan, Michael	Petersburg	Henley, J. H	N. W. Athens
arrity, Johnaul, Henry J	Riverton	Henry, Michard	Niantie
aul, rienry J	Ridge Prairie	Heppard, George	Tilden
avin, Barney eisler, Ernest.	Springfield	Henry, Frederick Henry, John T. Henry, Philip	Kewanee
elsier, Ernest	Golden Eagle	Henry, John L	Pontiac
ell, Philip	Gilchrist	Henry, Pulnp	Spring Valley
1010H, Pilchaet	Spring Valley Niantic Gillespie	Heriot, James	Spring vaney
1138/L. Maleart	Niantie	Hetherington, Benj. M	LaSaile
iles, a ilijam	(tillespie	Hickey, John	Springheld
elsler, Ernest. ell, Philip. ibson, Michael. ibsor, Michael. ibst, William. ilchrist, John W. lass, William H. oalby, John F.	Gilchrist	Heriot, James Hetherington, Benj. M. Hickey, John. Hicks, Rd. J. Higbee, A. W.	Sperrard
lass, William H	Pana	Highee, A. W	M roming
oalby, John F	Gillespie		
oalby, William H., ex	Percy	Hill, Marshall	Carterville Colchester
oddard, Benjamin B	DuQuoin	Hill, Marshall Hillary, Edward	Colchester
oddard, william		Hind, John A	Moline
oalby, William H., exoddard, Benjamin Boddard, William	Cuba	Hoffman, John	DuQuoin
olden, Georgeolden, William Doodall, Grorgeordon, Ephriam G	CubaSpringfield	Hoffman, John. Hofman, John. Holmes, Thomas F. Horning, Charles A. Houston, Robert. Howell, Thomas H. Howell, D. J.	Lincoln
olden, William D		Horning, Charles A	Harrisburg
oodall. George	Assumption	Houston, Robert	Percy
ordon, Ephriam G	Wanlock	Howell, Thomas H	DuQuoin
rabuck, R. H	Staunton Virden Dunfermline	Howell, D. J	
rabuck, R. H raham, Hiram raham, John W	Virden	Howells, Eben, Howells, T J	Braceville
raham, John W	Dunfermline	Howells, T J	DuQuoin
raham, Louis Araham, William	Jacksonville	Howells, I J. Hoye, James Hoye, William Huddy, T. H. Hudson, Thomas Hughes, James, Hughes, John W. Hughes, Hugh J. Hughes, John J. Hughes, J. A. Humme, J. A.	Braidwood
raham, William	Virden	Hoye, William	
	Springfield	Huddy, T. H	Staunton
rant, Peter, Jrratz, Gottleibranilick. Jul. Mray, Thomas R	Peoria	Hudson, Thomas	Etherly
ratz, Gottleib	Hornsby	Hughes, James	Braidwood
ranilick. Jul. M	Belleville Springfield	Hughes, John W	
ray, Thomas R	Springfield	Hughes, Hugh J	Pana
	Braceville	Hughes, John J	Litchfield
reen, Joseph, exreen, John Wreen, Robertreenwood, John Rreenwood, John Rreenwood, John Rreenwood, John Rreenwood	Marissa	Humme, J. A	Hillary
reen, John W	Springfield	Hummert, Henry	Breese
reen, Robert		Humme, J. A. Hummert, Henry Humphreys, Edward Hunt, Albert J.	Murphysboro.
reenwood, John R	Edinburg	Hunt, Albert J	Edwards
reives, Peter	Collinsville		
reives, Peterrindrod, William Eroom, John		Iberson, James	Athens
room, John	believine	Iberson, James Issininghaus, William	Lebanon
rosspitch, Angust		lzat, William	Lebanon Litchfield
uest, Joseph, ex			
uest, Joseph, ex uiney, James T	Braidwood		
		Jackson Geo W	Cable.
		Jacobson Charles P	St. David
addick, John, Jr	Cable	James John	Mt Olive
addick William ev	Sharrard	James Jonan	Grane Creek
11 1111am, ca.,	Sucitaru	oames, ounan	D-U-wills
addow Thomas			
addick, William, ex	Pana	Jackson, Geo. W. Jacobson, Charles P. Jannes, John James, Jonan Jaques, William Jaques, Richard Jefford, R. H	Deneyme

# Mine Managers—Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Name.	rostonice.	Name.	Fostomee.
Lefford Thomas H ex	Kingston	Lloyd John F	Donwille
Jefford, Thomas H., ex Jeffrey, Peter	Carterville	Lloyd, John E Lloyd, Thomas Long, Thomas	Danville Rentchler Wanlock
Jenking, Alexauder	Dunfermline	Long, Thomas	Wanlock
Jenking, AlexauderJenkins, Thomas CJerremire. William MJohn, Evan D	Murphysboro	Lord, John S Love, John W Lowery, Frank Lumaghi, Joseph Lumaghi, Louis F	Springfield
Jerremire. William M	DuQuoin	Love, John W	Carbon Hill Orchard Mines Collinsville
John, Evan D	Spaulding	Lowery, Frank	Orchard Mines
Johnston, Cochran,	Spring valley	Lumaghi, Joseph	Collinsville
Johnston, Samuel	Oglesby Collinsville	Lumagm, Louis F	
Jolly, Thomas J	Marissa		
Jones, David	** **********	Macke, P. H	Ledford
Innae D. L.	Taylorville	Macke, P. H Malcoim, William J	Braceville
Jones, Edward Jones, Harry D. Jones, John H.	Oglesby	Malloy, Henry E. Malone, Frank Maltby, William	Decatur
Jones, Harry D	Riverton	Malone, Frank	Pinckneyville
Jones, John H	DuQuoin	Maltby, William	Braidwood
Jones, Logan	MarissaLadd	Marland. John, Sr., ex Martin, George	Wenona Farmington
Jones, T. L. Jones, William Jones, William E. Jones, William E. Jones, William M	Marissa Sheffield Wesley City	Mason, Eli	Edinburg
Jones, William E	Sheffield	Mason, Mark, Jr	Sato
Jones, William E	Wesley City	Massie, John G	Marissa
Jones, William M	Tamoroa	Matthews, W. S	Kinmundy
Jordan, Robert	Streator	Maxwell, Augus	Carlinville
		Mays, John F	Orleaby
Kahle Joseph	Coulterville	Meehan Patrick	Breeds
Kahle, Joseph Kane, Charles H	Dunfermline	Mason, Eli Mason, Mark, Jr Massie, John G Matthews, W. S Mawwell, Augus Mays, John F Medill, Duncan Meehan, Patrick Meehan, Peter Michaels, Theodore Millard, John	Pana Oglesby Breeds Williamsville
Kay.James	Sherrard	Michaels, Theodore	Belleville
Kay, James Karrall, Edgar Keating, James A	Braceville	Millard, John	Peoria
Keating James A	Streator Seatonville	Miller, Edward	Sorento Loceyville
Keay, A. H. S	Seatonville	Milburn, Thomas	Loceyville
Keay, A. H. S. Keay, John Keefer, William	Springfield Danville	Middleton, James L. Michaels, Lewis Michaels, Otto L. Miller, Alexander Miller, Hugh Miller, William Miller, Miller	Sandoval
Keil, Matthew	Dubois	Michaels Otto L	Belleville
Keil, Peter		Miller, Alexander	Ridge Prairie
Kelley, Bernard	Litchfield Carbon Hill	Miller, Hugh	Ridge Prairie Coal City
Kelley, D. J	Carbon Hill	Miller, William	Leuzburg
Kelly, Frank S	Centralia	Milem. John	Lenzburg Norris Collinsville
Kelley Robert D	Centralia Braidwood Carbon Hill	Mille T I	Cable
Keil, Peter Kelley, Bernard. Kelley, D. J. Kelly, Frank S. Kelly, Joseph G., ex. Kelley, Robert D. Kelly, J. D., Sr. Kempper, Henry Kenny, Thomas Kerr John	Carbon IIII	Millet, Thomas Mills, T. J Mitchell, T. J Moffat, K. E Moffat, Thomas Monaghan, Edward Moore Samuel	Pana
Kempper, Henry	Gillespie Springfield	Moffat, R. E	Percy
Kenny, Thomas	Springfield	Moffat, Thomas	
Kerr, John	Rushville	Monaghan, Edward	Carbon Hill
Kidd Andrew	Oglesby	Moore, Samuel  Morland, John, Jr  Morin, Jermiah	Springfield Wenona
Kidd W	Ridge Prairie	Moriu Jermiah	Danville
Kidd, Alexander Kidd, Andrew Kidd, W Kidd, W Kidd, Neugene		Morrin, D. A	
	Edwards Station.		Springfield
Kirby, James Kirchner, Frank Kirkwood, Martin	AthensBelleville	Morgan, George Morgan, Joseph Morris, G. W Morris, J. H Morris, James F Morris, P. K Morris, William M.	Streator
Kirchner, Frank	Belleville	Morris, G. W	Lebanon Nashville
Klinginfus,Otto	Berkner Belleville	Morris James F	Springfield
Kloavar Joseph	Pana	Morris P. K	Roanoke
Knies, Henry	Breese	Morris, William M	Belleville
Kortkamp, William	Hillsboro	MOTTIS, JUSEPH, CA	Nashville
Knies, Henry Kortkamp, William Kramer, Anthony F Krantz, Jacob	Sato Belleville	Morris, Robert	Marion
Krantz, Jacob	Belleville	Morrissey, Thomas Morrison, D. H. Morton, Andrew	Lebanon
		Morrison, D. H	Girard Virginia
Lacour, August	Bartonville	Morton Robert	virginia
Lacour, August	Belleville	Morton, Robert. Moss, Thomas Mould, Thomas R. Muir, Hunter	Staunton
Lander, Alexander, ex	Carterville	Mould, Thomas R	O'Fallon Etherley
Large, James M	Athens	Muir, Hunter	Etherley
Laws, J. M		Murphy.Jerry	Chatham
Lawson, John	Mt. Olive	Murphy, John. Murphy, Patrick	Braidwood
Ree. Robert	Lake Creek Cable	Murray A	Springfield Nashville Sparta
Lee, Shelleross G	Canton	Murray, A Murray David	Sparta
Leming, W. C	DuQuoin	Murray, Hugh	~
Lawson, John Lawson, Thomas Ree, Robert Lee, Shellcross G Leming, W. C Lettsome, William Lettsome, Absolom	Carbon Hill	Murray, Hugh Murray, J. H Murrie, Archibald	Galva Centralia
Lettsome. Absalom	Carbon Hill	Murrie, Archibald	Centralia
Lewis, James Lewis, William	Bryant		
	Streator	Me Allister Hector	Streator
Lindsay, John O	DuQuoin	McAnarney, James	Girard
Linsky, P. J	DuQuoin Braidwood	McCann, Patrick	Lincoln
Lindley, Kienard Lindsay, John O Linsky, P. J Lister, James H Little, Thomas Lloyd, David J	Peters Station	McAllister, Hector. McAnarney, James McCann, Patrick McCleary, John McCleery J, ames McClintock, John	Cantrall
Little, Thomas	Summerfield Edinburg	McClierry J. ames	Kangley
moya, David J	Edinourg	. wechurock' topp	murphysouro

# $Certificates\ of\ Competency-{\bf Continued}.$

Name.	Postoffice.	Name.	Postoffice.
			L
McCrindle, David McDonald, Robert	Oglesby Streator Braidwood	Pryce, John M	Coal Valley
McDonald, William	Braidwood	Pullen, Charles	Litchfield
McFadden Jos	Danville	Pullen, James	Sorento.
McFadden, Jos McFarland, William A	Edwardsville	t and a discontinuity	
McGreachin, Robert	Sorento		
McGinnis, John	Springfield	Raby, Robert A	Cuba
McGunnigal, John	Murphysboro	Radford, Thomas, ex	Bloomington
McGunnigal, James McGunigal, Bernard	Marissa Spring Valley Coal City	Radford, Thomas, ex. Radford, Thomas, ex. Radford, William Radford, James. Radford, William T Rae, Robert Ramsey, Charles J. Randle Lusse.	Cuba.
McKean, Isaac	Spring Valley	Padrod William T	Springheid
McKean, Isaac McKeown, Frank	Dogotus	Rae Robert	Braidwood
Me Kernan James	Collinsville	Ramsey Charles J.	Gillespie
McKernan, James McKillop, Donald	Carbon Hill	Randle, Jesse Rarick, Phil. W. Rauth, John Rasmussen, James E	
McLean, Robert McManaman, Patrick F	Girard Spring Valley	Rarick, Phil. W	Glen Carbon
McManaman, Patrick F	Spring Valley	Rauth, John	Belleville
McMorrow. Michael	Farmington	Rasmussen, James E	Mineral Muddy Valley Riverton
McMath, George	Carterville	Keagan, Daniel,	Muddy Valley
McMurtie, A. B.	Bryden	Reavley, Robert	Riverton
McWhinnie, Andrew	Virden	Redyard, John	Odin Girard
		Reed, W. M. Reed, Wm. B.	Wilsman
Nael, Reese	Kangley	Reents, August	Kramm
Nael, Reese Neal, Albert M	Murphysboro	Reents, August	Danville
Neal, William	Kangley Murphyshoro	Reid, Andrew Reid, Joseph Reilley, Edward	Springfield,
Needles, Thadeus Neil, Peter, ex Newman, Henry T. Newsam, John Newsam, Richard Newsam, Richard, Jr	GlenburnBunker Hill Springfield	Reid, Joseph	Marion
Neil, Peter, ex	Bunker Hill	Reilley, Edward	Danville Belleville
Newman, Henry T	Springfield	Reimann, John	Belleville
Newsam, John	Kingston	Rennison, Henry	St. John East Peoria
Newsam, Richard		Reynolds, William Reynolds, John	Streator
Newsam Thomas	Kingston Mines	Rhodes, Jefferson	Pana
		Righardson Locard	Pana Litchfield
Nesbit, Charles, ex	Millstadt	Richardson, Robert	Carterville
	Belleville	Ridgely, O. L	Mt. Olive
	Cuba	Ritchie, Alex., Sr	Clinton
Nicholson, William	************		Trenton
Nicholson, William Nold, Fred	Freeburg	Roberts, Benjamin D	Streator
Nordeen, Peter	Galva	Roberts, John D., ex	Gardner Kingston Mines.,
		Robinson, Henry Robinson, John T. Rodden, John	Kingston Mmes
O'Beirne John	Spring Valley	Rodden John	Pana Pana
O'Brien, John W	Toluca		Pana Belleville
O'Beirne, John O'Brien, John W O'Brien, John J O'Brine, Patrick J O'Brine, William.	Toluca	Roe, Samuel. Roe, Thomas. Rogers, Josiah.	Oglesby
O'Brine, Patrick J		Roe, Thomas	
O'Brine, William	Pana Spring Valley Braidwood	Rogers, Josiah	Braidwood
O'Connor, James	Spring Valley		Mount Olive
O'Connor, John	Marquette	Rollo, John Rollo, William Rookin, Thomas	Gillespie
O'Leary, John Opie, William	Sandoval	Rookin Thomas	Pana Edwards Station.
Owens, Robert	Marion	Ross, David	Oglesby
		Rowland Charles ov	Relleville
		Rundle, John C Rutledge, Walton Rutledge, J. J.	Colchester
Parker, Albert Passent, Wm. C	Collinsville	Rutledge, Walton	Alton
Passent, Wm. C	Barclay	Rutledge, J. J	Staunton
Patchet, John	Murphysboro Assumption	Ryan, James	Springfield N. Springfield
Patterson, J. C. Peart, John Percell, Thomas Peterf, J. D.	Braidwood	nyan, Inomas	opringheid
Percell, Thomas	Norris		
Peterf. J. D.	Murnhyshara	Sangrelet, Marshall	Mount Olive
Pettier, Moses	Spring Valley Minonk	Sansom, Henry S., ex Sauer, Frederick. Scaife, William. Schroll, Joseph	Streator
Phillips James	Minonk	Sauer, Frederick	Belleville
Pick. Edward Pickett, Robert.	Centralia	Scaife, William	Coal City
Pickett, Robert	Spring Valley St. David	Schroll, Joseph	Bartonville
Diomas William	St. David	Senranim, Klenard	Bellevill Glen Carbon
Pieton, Joseph. Pierce, William Pool, Edgar E. Potter, George.	Edinburg	Schramm, Richard Scully, William J Scurrah, Castling R. Secor, Fredorick D	Braceville
Potter, George	Murphysboro Mapleton	Secor Fredorick D	Odin
Postle, John	Braceville		
Postle, John Powell, Albert E Powell, Evan Powell, David, ex	Belleville	Sevan, Charler. Sharp, Montgomery, ex	Danville
Powell, Evan	Murphysboro	Sharp, Montgomery, ex	Coal City
Powell, David ev	Braceville		
D II 3 13	Sato	Sholl, Joseph, ex	Bartonville
Powell, J. E	D 11 111		
Powell, J. E. Powell, Thomas H.	Belleville	Shields, Frank D	Pana
Powell, J. E. Powell, Thomas H. Powell, Samuel	Belleville Roanoke	Shields, Frank D Schuler, Charles	PanaGilehrist
Powell, J. E Powell, Thomas H Powell, Sanuel Prince, Phomas Proctor, Michael J Prudent, Edward	Belleville Roanoke Gillespie	Sholl, Joseph, ex Shields, Frank D Schuler, Charles Sidall, John S Sidall, James Siddle, John	Pana

# ${\it Mine\ Managers-Certificates\ of\ Competency\ -} {\it Continued}.$

Name.	Postoffice.	Name.	Postoffice.
Simkin, Samuel	Streator	Thornton, James Thornno, Joseph	DuQuoin
Simmons, Thos	Canton	Thorand, Joseph	Trenton Kingston Mines
Simpson, Isaac	Glen Carbon	Tolle, E. B	Kingston Mines
	Spring Valley Springfield	Tolle, E. B	Murphysboro
Simpson	Springfield	Twomley, Edwin, ex	Coal Valley
Simpson, George A			
Simpson, George A Simpson, George C.	l · · · · · · · · · · · · · · ·	** ** **	
Simposn, William J	Collinsville	Vallow, Charles	Kinmundy
Simpson, Thomas		Vandebur, John, ex	Springfield
Simpson, Thomas	O'Fallen	Vicary, John, ex Vose, John.	Lincoln
Simpson, William J Simpson, Thomas Simpson, Thomas Sisk, A. J	Equality	vose, John	Springneid
Skinner, Alexander			
Skinner. David	Diamond	177	M1-4
Skinner, John		Wagner, I Wallace, David	Mapleton Carterville
Skinner, John	Astoria.	Wallace, David	Bartonville
Skinner, John Sloan, Edward C Small, James.	Wesley City	Walland, Ed. S., ex Walschtag. Stephen	Dartonvine
Small, James	Astoria. Wesley City Middle Grove Spring Valley	Walsentag, Stephen	Peoria Springfield
Smethurst, Nathan	Spring Valley	Walsh, Patrick Walsh, Peter P. Walters, Wm. H.	Pleasant Plains
Smith, Alexander M	Sandoval	Waltan Ww H	Staunton
Smith, David P	Dawson	Wanless, Isaac	Riverton
Smith Goorge A	Birkner	Wanless William	Riverton
	Mount Olive	Wanless Wm H	
Smith, James L Smith, James L	Riverton	Wantling T. J	Peoria
Smith, James P	Collinsville	Wantling Thomas	Pottstown
Om th Longub	Bluemington	Wanless, Isaac. Wanless, William. Wanless, William. Wantling, T. J. Wantling, Thomas Walters, Thomas W. Watson, George R. Watts, Thomas J. Watts, William. Wobstor Richard	Ladd
Smith T J	Pana	Watson, George R	Ladd Wyoming
Smith William	Athens	Watts, Thomas J	Elmwood
Smith, William G	Riverton	Watts, William	
Smith, T. J. Smith, T. J. Smith, William Smith, William G. Smith, W. J. Sneddon, Richard. Sollenberger, Harry C.	Girard	Webster, Richard Weeks, Thomas Weisenborn, F. E	
Sneddon, Richard	Virden	Weeks, Thomas	Streator
Sollenberger, Harry C	Dunfermline	Weisenborn, F. E	Mt. Olive
		Wenneborg, Otto	Springfield
Springer, Albert R	Glen Carbon	Westwater, David	Pekin
Staehle, August Stanton, William E., ex	Belleville	Westwood, Albert.	Belleville
Stanton, William E., ex	Colchester	Westwood, John	Streator
Steel, Alexander	Streator Collinsville	Wenneborg Otto Westwater David Westwood, Albert Westwood, John Westwood, John Westwood, Thomas Wheatcraft James	Elmwood
Steel, Daniel	Collinsville	Whennen, Charles	Oglesby
Steel, Daniel. Steel, James. Steel, Neal Stewart, D. G. Stirrat, James. Stockett, Howard N.	Controlio	Whiteler John	Collingville
Steel, Neal	Soutopville	Whitaker, John	Collinsville
Stirvet James	Peoria	White, Owen	Seatonville
Stockett Howard N	Springfield	Wnitehead, Joseph	Farmington
Stockett Lewis	Collinsville	Wild. James	Murphysboro
Stockett, Lewis Stockett, Thos. R., Jr	St. Louis, Mo	Wild, James Wiley, Robertson	St. David
Stockman, W. H Stoneburner, L. L.	DuQuoin	Wilkinson, Frank Wilkinson, T. H	Westville
Stoneburner, L. L	Moweaqua	Wilkinson, T. H	Diamond
Storrie, Archibald	Seatonville		
Stratman, Henry, ex Strebel. George	Springfield	Williams, Jeft	Farmington
Strebel. George	Edwardsville	Williams, John	Riverton
Strickl: n l, John. Sutton. Thomas. Swansberg, John L. Swarthout, J. P.	Coal City	Williams, Jeff. Williams, John. Williams, Louis. Williams, Robert H.	Belleville Girard
Sutton, Inomas	Millstadt	Williams, Robert H	DuQuoin
Swansberg, John L	Danville	Williams, WW	
Syson, Frank	Peoria Niantie	Williams, Walter. Williams, W. W. Williamson, Wm.	Hornsby
Oysun, Frank	MIAHITE		Murnhvehoro
		Wilson David	Spring Valley
Tallman John ev	Kangley	Wilson Hugh	Kinmundy
Taylor, Charles	Edwards	Wilson, Hiram	Carbondale
Tallman, John, ex. Taylor, Charles. Taylor, Daniel.	Edwinds	Wilson, David Wilson, Hugh Wilson, Hiram Wilson, H. C Wilson, John B	Pekin
Toylor Honry	Relleville	Wilson, John B	Sparta
Taylor, James Taylor, Joseph Taylor, Thomas, ex Taylor, Thomas, ex Thom, Alexander, ex	Edwards		
Taylor, Joseph	Springfield O'Fallon	Wilson, Robert. Wilson, Thomas. Wilson, W. R. Winning, James	Roanoke
Taylor, Thomas, ex	O'Fallon	Wilson, Thomas	Norris Reed City
Taylor, Thomas, ex	Springfield Coal City	Wilson, W. R	Reed City
Thom, Alexander, ex	Coal City	Winning, James	Cartervile
Thomas, H. Thomas, John R	Westville	Winning, Robert	
Thomas, John R	Ladd	Winterbottom, John	Murphysboro Bartopville
Thomas, T. J	Collinsville	Winters, Samuel P	Now Reden
Thomas, Reese	Spaulding Ridge Prairie	Wittman, Daniel Wolschlag, Stephen, ex	New Baden Peoria
Thomas, Richard Thome, Martin, ex	Bartonville	Woods, William, ex	Morris
Thomason John.	DeSota	Wright, John	Belleville
Thompson, John. Thompson, Robert C Thompson, Mark	Murphysboro	Wright, J. W	
Thompson, Mark	Sherrard	1	
* · · · · · · · · · · · · · · · ·			

### Mine Managers—Certificates of Competency—Concluded.

Name.	Postoflice.	Name.	Postoflice.
Yates, John Young, Hiram Young, Hugh G	Girard	Zink, Peter AZoller, Robert H.,	Belleville Braidwood

#### MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T	Rosboro	Gilbert, Edward	Niantie
Aslopp, William H Anderson, William	. New Castle	: Glenn, John	Peoria
Anderson, William	. Streator	Goodler, Wm	
Andreas, August Angel, Hiram	. Benevine	Golden, George	Springfield
Atkinson, Edward		Grant, David	Pakin
Axford, Thomas		Gray. John	
in jora; a nomitor	. Loversburg	Green, Robert	Springfield
		Greenwood, Robert	DuQuoin
Bailey, Robert, Bangart, Henry	Sunfield	Grieve, Peter	Collinsville
Bangart, Henry	. Lincoln	Griffith, William A	Colona
Bartlett, Thomas			
Barwell, John Bates, W. H	Winghoston	Haddick, Robert	Cable
Betz, Charles C	Du Quoin	Haensel, Daniel	
Bolander, John	Pekin	Harrison, Ernest	Streator
Bracken James A	Greenview	Heinz, John L	LaSalle
Brown, Jabez	. Cutler	Howe, William	Streator
Brown, Thomas M	. Pinckneyville	Hoye, James	Braidwood
Bunting, J. H	. Grape Creek	Hutton, James	Tallula
Bushong, Andrew M	. Danville		
		Jenkins, Eugene	Bartonville
Caldwell James	Elmwood	Jerremire, Wm. M	DnQuoin
Cameron Duncan S	Sorento	Jones, David	
Cape, Thomas	. Fairview		
Chere, George	Pleasant Plains		
Christie, David Collier, Frank J	Murphysbero	Keller, George, Jr	Bartonville
Collier, Frank J	Burtonville	Kidd, Andrew	Wenona
Cooper, Charles Costor, George		Kidd, Neugeae Kirley, Bernard	Kararaa
Crawson, Elihu	O'Fallon	Klingenhagen Henry	Belleville.
Cummings, William	Rushville	Klingenhagen, Henry Kramer, Anthony F	Sato
Cusack, M	Edwards		
		T 101 102 - 17	(T)
Dale, John	Prodonia	Laumbattus, Philip H Lenze, Charles	
Davenport, John,		Lloyd, Hosea W.	Shoffield
Davis, Caleb		Bloyd, Hosea W	onemen
Davison Matthew	DuQuoin		
Deans, Henry	Percy	Mason, Mark, Jr	Sato
Donaly, James	Carterville	Maule, Robert	Belleville
Duffner, J. W	Belleville	Meehan, Patrick	Breeds
		Mechan, Peter Meredith, C. W	Angusto
		Michaels, Lewis,	Relieville
Entsminger, Emanuel E.		Miller, Nicholas	Lebanon
Entwhistle, Robert Erwin, William	West Relleville	Mitler. William	Lenzburg
Esper, Peter	Spaulding	Milem, John	Norris
	~ P.MIMING	Millett, Thomas	Collinsville
		Moffatt, Thoma3	Cowbon Hill
Fagan, Patrick	Decatur	Morin, Jeremiah	Danville
Fletcher, Adam	Ladd	Morton, Robert	Virginia
Forsuthe, Peter	Centralia	Murphy, John	
Forsythe, Thomas		McCleery, James	Kangley
Forsythe, Thomas Fowler, Henry	Millersburg	McDonald, Daniel	Menard
Frankin, Bernard	Lincoln	McDowell, James A	Characterist

# ${\it Mine\ Managers-Certificates\ of\ Service-} {\it Concluded}.$

ffice. Name.	Postoffice.
le Shaw, Nuthan Smith, David P	Limestone Kramm. Dawson
Solomon, Robert. Spencer, George. Stanway, George. Stark, Andrew	Springfield. DuQuoin Blair. Galva.
leville Stuhlsatz. Michae Sutton, Thomas	Seatonville.  Kewanee. Millstadt. Oakwood.
er Swisher, James E	St. David
Teifer, Alexander Terrill, Thomas Thompson, John.	W. Morris Colchester DeSota DuQuoin
Waugh, George, S Wanless, William Westwood. Thoma	Sr Peoria
wilkin, John B Williams, John Williams, John T	easedMurphysboro Petersburg Sato Coalville DuQuoin
	alley Schmidt, Frank P Shaw, Nuthan Smith, David P Smith, Pelix Solomon, Robert Spencer, George Stankay, George Stankay, George Stark, Andrew Stevart, David J Stuhlsatz, Michae Sutton, Thomas swan, Charles Swisher, James E ton d Teifer, Alezander Terrill, Thomas Trompson, John Thomas Waugh, George . S Wanless William Williams , John B williams , John B williams , John Williams , John

#### HOISTING ENGINEERS, HOLDING CERTIFICATES OF COMPETENCY.

Note.-This and the following list include all the hoisting engineers to whom certificates were issued prior to January 1, 1900. The postoffice addresses here given are those recorded at the time the certificates were issued, and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
Ablen, Henry	Breese	Blake, Albert	Streator
Adams, Nelson	Lincoln	Blair, George	**
Adams, Wm. H	Braidwood	Blue, Jesse.	Norris
Ainsworth, Samuel, Jr	Taylorville	Black, Jas. A	Trov
Alexander, Henry	Ogleshy.	Blomberg, Albert	
Alexander, W. A	Rosboro	Billips, Joseph M	Kewanee.
Allen, C. E.	Trov	Boettcher, Alfred	Freeburg
Allen. C. H	Senege	Boggs, Dow J	Kewanee
Altman, H. P.	Collingville	Bohlen, Henry E	Mt Olivo
Anderson, Henry		Boring, Frank L	Odin
Anderson, W. C		Boston, William H	Murphyshore
Anderson, W. C	Elliwood	Doston, William H	Combondale
Anderson, Z. B	Sparta	Bradbury, R. DBradenburg, F	Darbondale
Andrews, Solomon		Bradenourg, r	Believille
Anthony, John C	Benevine	Bradley, Simon	rawarusvine
Appleby, John	East Peoria	Bradley, Wm. P	virden
Appleton, Thomos	Virden	Brasel, S. R	Centralia
Archibald, David	Freeburg	Bretz, Anton	Germantown
Armentrout, Martin	Duncan	Bromley, Charles	Coal City
Armstrong, C	Muncie	Bromley, George, Sr	Catlin
Armstrong, William C	Marion	Bromley, George, Jr	Kellyville
Ashman, Joseph	Murphysboro	Broughton, Geo. C	Coffeen
Atkin, Robert R	Tilden	Brown, George A	Iles Junction
Atwater, Stephen	Clarke City	Brown, Thomas	Moweaqua
Averill, C. P	Colchester	Brown, Wm. F	Pontiac
Avery, William	Lens Station	Bruse, James	Athens
		Brueggeman Geo	Nashville
		Buckley, Calvin, W	Sparland
Bailey, James F	Westville	Buckley, Calvin, W Burlinson, Aaron	Percy
Baird, Robert		Burr, Chauncy	Coulterville
Baker, Darius N	Spillertown	Burreil, G. K	Farmington
Baker, James E	Westville	Butcher. Thomas	Murphysboro
Baker, C. H	Fairmount	Butt. Thomas R	Litchfield
Bateman. Harry	Murphyshoro	Byrne, Michael	LaSalle
Barber, C. E	DnOugin	Direct Michael	Edition in the control of the contro
Barber C W	DHQuoin		
Barber, Č. W Barnhill, H. G	Kinmundy	Cagle, Alfred	Marion
Barr. Frank	Controlio	Cain, Daniel	Didgolg
Barton, C. W		Cain, Daniel P	Ridgery
Barton, Charles W	Dolam cont	Cain, Daniel P Cain, John	
Beard, Charles A	rairmount	Callear, Isaac	Dattata
Seard, Charles A	Streator	Cameron, Daniel	Pottstown
Beatty, James H		Cameron, Daniel	Pana
Beatty, Nepha Becker, Fritz		Camp, John R	Westville
Becker, Fritz	Mt. Olive	Campbell, Fred	Sorento
Becker, F. M	Sandoval	Campbell, W. J	Coal City
Behrend, A. D	Springfield	Cantrell, H. T	Farmington
Beeby, William Beese, John E., Jr		Carmichael, Thos	Springheld
Beese, John E., Jr	Belleville	Carpenter, Charles	
Bell, Mark	Danville	Carr, Robert H	Freeburg
Bell, Mark Bertin, Henry	Danville., Pana	Carrington, Eugene	Moweaqua
Bell, Mark	Panville., Pana Spaulding	Carr, Robert H. Carrington, Eugene Carsell, Hugh. Carter, Albert J	Moweaqua

# $Hoisting\ Engineers,\ Certificates\ of\ Competency {\bf — Continued}.$

Name.	Postoffice.	Name.	Postoffice.
Chapman, J. B	Petersburg	Dowling, Ira F	Springfield
Chapman, William E	Salisbury	Dowling, Ira F	Streator
Chester, David	Springfield	Diffy Glenn E	Streator Collinsville,
Chew, B. R.	Carlinville	Duncan, J. R. Dunsmore, Thomas Dunstedler, William S Dyer, Harry	LaSalle
Christ, Philip Clark, Christopher. Clark, C. N	Wenona Decatur	Dunstedler William S	Edwardsville
Clark C. N	DuQuoin	Dver Harry	DuQuoin
Clark, John	Marquette	2 3 021 12002 3	Dagaona minin
Clark, John	Virden Braidwood		
Clark, Quintin	Braidwood	Eaton, A. C. Easton, Geo. Eccleston, John	DuQuoin Willisville
Claudin, Josh Clickner, C, S Clifford Michael	Pekin	Easton, Geo	Streator
Clifford Michael	Witt Kewanee	Eddy, Evermont	
Chitton, Wm. H	Sparland	Eastham, G. A	Girard
Contrar Cunnt	C. inner corne	Edwards, George W	Springfield
Collinton, Chas	Belleville	Elliott, Clarence	Bryant
Collingwood, Wm Collingwood, Albert E Collins, Walter Colton, George C.	Greenview	Eddy, Evermont. Eastham, G. A Edwards, George W Elliott, Clarence. Elliott, H. H. Edwards, Thomas. Ekis, Daniel B.	Bryant Centralia Spring Valley Springfield
Colling Walter	Springfield Mt. Vernon	Edwards, Thomas	Spring vaney
Colton George C.	Carterville	Ekis, Henry	Ridgley
Conley, John	Streator	Emans, Ransom R	Farmington
Conley, John. Connelly, J. J. Conway, John. Conway, Michael. Cook, Wm. D. Copper, J. H. Corpaline, Richard	Murphysboro	Ellis Albert	Cable
Conway, John	Collinsville	Elmore, V. M. Emery, H. W.	Coffeen
Cook Wm D	Ladd Westville	Emery, H. W	Greenville Streator
Cooper J. H	Nilwood	English, Thomas Erisman, Jacob D	Niantic
		Erisman, Jesse	
Cottle, Elmer	Buffalo Halidayboro	Erisman Jesse. Estes, W. B. Evans, Albert. Evans, Thomas Evans, C. L.	Danville
Cotton, George Craig, Daniel, Croker, Edward	Halidayboro	Evans, Albert	Gren Carbon
Craig, Daniel,	Danville	Evans, Thomas	Spaulding Virden
Cruickshanks, Robert	Marquette Middle Grove	Evans Price	Bissell
Cummings George	Pana	Evans, Price Evans, W. E	Danville
Cumming, Geo. A. P Cumming, Geo. P	Gardner	Eytman, Frank	Spring Valley
Cumming, Geo. P	Sparland		
Cummings, Robert W	Sparta	D ) T.1	Desetes
		Fahay, John Falkenstien, George A	Decatur
Dalhour, Frank C	Staunton	Farley, James	Riverton
Dana, John W	Staunton Springfield	Farley, James Ferguson, John J	Spring Valley
Daniel, James	Benevine	Ferris, W. H	Marquette
Daniels, Joel		Fillingham, J. A	Canton Springfield Lenzburg
Dankins, Thos. J	Braceville New Athens	Finnigan, Indinas J	Langhurg
	Coffeen	Ferguson, John J Ferris, W. H Fillingham, J, A Finnigan, Thomas J Fischer, Phillip Fisher, George Fisher, Patrick. Fitzsimmons, Maurice	Staunton
Davis, Jas. A. Davis, Chas. W. Davis, Jackson.	Hillsboro	Fisher, Patrick	Kangley
Davis, Chas. W	Edinburg	Fitzsimmons, Maurice	Peru Taylorville
Davis, Jackson	Athens	Flesher, A Fletcher, Henry A	Taylorville
Davis, E. E	Auburn Lincoln		Ladd Westville
Davis, Frank Davis, Harry J Davis, James P Davis, John W	Du Quoin	Foote, William Fox, Frank L	
Davis, James P	Belleville	Fox, Frank L	Assumption
Davis, John W	Lake Creek	Forister, Robert	Murphysboro
Davis, John	Belleville	Forister, William	Kinmundy
Davis, L. D	Coffeen	Foster A J	Litchfield
Davison, Joseph Dawson, Van C. Dawson, John C. Deans, Robert	Sherrard Spring Valley	Fox. James B	LaSalle
Dawson, John C	Streator	Fox, Thomas	Lincoln
Deans, Robert	Belleville	Frain, Austin	Ridge Prairie
Deaton, L. B DeBacher, Thomas	Tallula Elmwood	Frankland, Tim	Streator Shelbyville
Dee Henry	Glan Carbon	Freeman, M. F	DuQuoin
DeJarnett, Thomas	Glen Carbon Mt. Vernon	Frick. U. B	Lake Creek
Delmore, Frank	Springfield	Friend, J. W	Collinsville
Dee, Henry DeJarnett, Thomas Delmore, Frank Delorey, William Dent, William Dick, Robert Dillon, Lohn	Westville	Forister, Robert Forister, William Fortney, John W. Foster, A. J. Fox, James B. Fox, Thomas Frankland, Tip. Frankland, Tip. Freeman, M. F. Freeman, E. F. Friend, J. W. Frier, Jacob Friend, William L. Friesd, William L. Friesd, C. M.	Ormsby Collinsville
Dent, William	Diamond	Friend, William L	Salisbury
Dillon John	Sunfield	Friesland, C. M	Breese
Diran Gaarga	Wanana	Fritz, Gustav. Fry. D. W. Furguson, S. P. Fusten. D. H.	Breese
	Pottstown	Furguson, S. P	Strasburg
Dodd, Sam'l H			Murphysboro
Dodd, Sam'l H Dodwell, Edward J	Decatur	Fusten. D. H	Mui pus sooro
Dodd, Sam'l H Dodwell, Edward J Doolin, E. W	Decatur	Fusten, D. H	duiphy sooro
Dodd, Sam'l H.  Dodwell, Edward J.  Doolin, E. W.  Dochring, Fred.	Decatur		
Dodd, Sam'l H Dodwell, Edward J Doolin, E. W Dochring, Fred Donaldson, J. W., Jr.	Decatur	Gately, James	Seatonville
Dodd, Sam'l H. Dodwell, Edward J. Doolin, E. W. Dochring, Fred. Donaldson, J. W., Jr. Doolin, E. J. Dougherty, Joseph. Dowler, John	Pontiae Mt. Olive Dunfermline Pontiac Taylorville	Gately, James Gates, William S. Gallagher. Peter Gaughan, James	Seatonville

# $Hoisting\ Engineers-Certificates\ of\ Competency-Continued.$

seer, Benjamin H. Wolcott Herring, George P. Odin. selmonr, Allan Diamond Herring, J. P. Stunnton seyer, J. A. Wanlock Herskitt, John R. Kingely. seyer, J. A. Wanlock Heskitt, John R. Kingely. signer, J. A. P. Danville Hillard, James S. David Heskitt, John R. Warrissa. Hillson, R. W. Danville Hillard, James S. David Hillson, John R. Warrissa. Hill. C. C. Marrissa. Hill. C. Warrissa. Hondon, Mose S. Smithbor. Hoekker, Charles Glavard. Murphysboro. Hoekker, Charles Glavard. Murphysboro. Hoekker, Charles Glavard. Murphysboro. Hoekker, Charles Glavard. House, C. C. Breese on Freeburgh. Hord, Alvin. Taylorville. Taylorville. Taylorville. Hord, Alvin. Taylorville. Taylorville. Hord, Alvin. Taylorville. Hill. C. Warrissa. Hill. Lee. Hull. Lee. Hull. L	Name.	Postoflice.	Name.	Postoffice.
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	Geer Reninmin H	Wolcott	Herring George P	Odin
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	Gelmour Allan	Diamond.	Herring, J. P.	Staunton
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	Geer. I'. S	Pekin	Hershaw, A. F	Abingdon
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	Gever. J. A	Wanlock	Heskitt. John	Ridgely
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	dibson John	Sandoval	Hess, Edward B	Morrisonville
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	tillson, R. W	Danville	Hillard, James	St. David
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	lirfen, Henry	Trov	Hill, C. C	Marrissa
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	ilacken, Hugh	Coal City	Hill, C. W	Pontiac
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	iladders, William		Hill, Emberson	Westville
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	Joalby, Arthur A	Perey	Hilmes, Henry	Astoria
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	toalby, B. F	***	Hobbs, Francis E	Centralia
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	Goalby, Frank H	Stookey	Hogdson, Edward	Murphysboro
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	ioddard, William H	Spillertown	Hodson, Moses	Smithboro
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	Fordon, E.J	Petersburg	Hoecker, Charles	Glen Carbon
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	iould, George	Sato	Hogan, Frank	Springfield
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	iowin, Frank	Green Ridge	Holtkamp, Geo	Breese
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	race, John T	Kewanee	Hopper, George	Glen Carbon
ranam, Reneel.   Virteh   Hortinger   Laylorville   Freelvers   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Ladd   House C. O. St. John   Valler   Va	iraham, L. A	Bloomington	Hopper, H. H	Gillespie
reen, Honas Marissa Huggins William Murphysboro reen, Honas Marissa Huggins William Murphysboro reen, Honas Hillson Huggins William Murphysboro reenhagh, Milliam Hillson Huggins William Wurphysboro rice, Albert Kewanee Humphrey, Chas Edinburg rice, Albert Kewanee Humphrey, Chas Edinburg rice, Albert William Fire Birkner wiffin, John O. Kewanee Fire Milliam Grown, John, Sr Fire Milliam Grown, John, Sr Fire Milliam Grown, William Grown, William Froom, William Froom, William Froom, William Froom, William Froom, William Grown, William Grown, William Froom, William Grown, Wi	draham, Reuben	Virden	Hord, Alvin	Taylorville
reen, Honas Marissa Huggins William Murphysboro reen, Honas Marissa Huggins William Murphysboro reen, Honas Hillson Huggins William Murphysboro reenhagh, Milliam Hillson Huggins William Wurphysboro rice, Albert Kewanee Humphrey, Chas Edinburg rice, Albert Kewanee Humphrey, Chas Edinburg rice, Albert William Fire Birkner wiffin, John O. Kewanee Fire Milliam Grown, John, Sr Fire Milliam Grown, John, Sr Fire Milliam Grown, William Grown, William Froom, William Froom, William Froom, William Froom, William Froom, William Grown, William Grown, William Froom, William Grown, Wi	Fray, Chas. H	Springfield	Hottinger, J	Freeburgh
reen, Honas Marissa Huggins William Murphysboro reen, Honas Marissa Huggins William Murphysboro reen, Honas Hillson Huggins William Murphysboro reenhagh, Milliam Hillson Huggins William Wurphysboro rice, Albert Kewanee Humphrey, Chas Edinburg rice, Albert Kewanee Humphrey, Chas Edinburg rice, Albert William Fire Birkner wiffin, John O. Kewanee Fire Milliam Grown, John, Sr Fire Milliam Grown, John, Sr Fire Milliam Grown, William Grown, William Froom, William Froom, William Froom, William Froom, William Froom, William Grown, William Grown, William Froom, William Grown, Wi	ireaves, Walter	Ladd	House, C. O	St. John
Triffin John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Robbert C  Pontiae.  From William  From William  From John O  Belleville Jackson, William Minonk  Jacobs Janes M  Jacobs Janes M  Moweaqna  Jacobs William Murphysboro  Johnson John W  Birkner John Mirkner Milliam Murphysboro  Johnson John W  Birkner Johnson William I  Soperville  Johnson Nobert Pawnee  Johnson Nobert Pawnee  Johnson John W  Soperville  Johnson Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson John P  Marissa  Jaren Oscar  Lebanon Jones John P  Jones Jones Henry E  Jones Jones Marissa  Jarer Oscar  Lebanon Jones William Braceville  Jarrey William Braceville  Jordan Robert Streator  Judd Charles E  Edwardsville  Jordan Robert  Streator	reen, Daniel	Braidwood	Howe, Chas	Streator
Triffin John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Robbert C  Pontiae.  From William  From William  From John O  Belleville Jackson, William Minonk  Jacobs Janes M  Jacobs Janes M  Moweaqna  Jacobs William Murphysboro  Johnson John W  Birkner John Mirkner Milliam Murphysboro  Johnson John W  Birkner Johnson William I  Soperville  Johnson Nobert Pawnee  Johnson Nobert Pawnee  Johnson John W  Soperville  Johnson Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson John P  Marissa  Jaren Oscar  Lebanon Jones John P  Jones Jones Henry E  Jones Jones Marissa  Jarer Oscar  Lebanon Jones William Braceville  Jarrey William Braceville  Jordan Robert Streator  Judd Charles E  Edwardsville  Jordan Robert  Streator	reen. Thomas	Marissa	Huggins, William	Murphysboro
Triffin John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Robbert C  Pontiae.  From William  From William  From John O  Belleville Jackson, William Minonk  Jacobs Janes M  Jacobs Janes M  Moweaqna  Jacobs William Murphysboro  Johnson John W  Birkner John Mirkner Milliam Murphysboro  Johnson John W  Birkner Johnson William I  Soperville  Johnson Nobert Pawnee  Johnson Nobert Pawnee  Johnson John W  Soperville  Johnson Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson John P  Marissa  Jaren Oscar  Lebanon Jones John P  Jones Jones Henry E  Jones Jones Marissa  Jarer Oscar  Lebanon Jones William Braceville  Jarrey William Braceville  Jordan Robert Streator  Judd Charles E  Edwardsville  Jordan Robert  Streator	reen, wni. H	Streator	Huggins, J. A	treator
Triffin John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Robbert C  Pontiae.  From William  From William  From John O  Belleville Jackson, William Minonk  Jacobs Janes M  Jacobs Janes M  Moweaqna  Jacobs William Murphysboro  Johnson John W  Birkner John Mirkner Milliam Murphysboro  Johnson John W  Birkner Johnson William I  Soperville  Johnson Nobert Pawnee  Johnson Nobert Pawnee  Johnson John W  Soperville  Johnson Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson John P  Marissa  Jaren Oscar  Lebanon Jones John P  Jones Jones Henry E  Jones Jones Marissa  Jarer Oscar  Lebanon Jones William Braceville  Jarrey William Braceville  Jordan Robert Streator  Judd Charles E  Edwardsville  Jordan Robert  Streator	reennaigh, James	Hillsboro	Hugnes, John C	Springheid
Triffin John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Robbert C  Pontiae.  From William  From William  From John O  Belleville Jackson, William Minonk  Jacobs Janes M  Jacobs Janes M  Moweaqna  Jacobs William Murphysboro  Johnson John W  Birkner John Mirkner Milliam Murphysboro  Johnson John W  Birkner Johnson William I  Soperville  Johnson Nobert Pawnee  Johnson Nobert Pawnee  Johnson John W  Soperville  Johnson Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson John P  Marissa  Jaren Oscar  Lebanon Jones John P  Jones Jones Henry E  Jones Jones Marissa  Jarer Oscar  Lebanon Jones William Braceville  Jarrey William Braceville  Jordan Robert Streator  Judd Charles E  Edwardsville  Jordan Robert  Streator	reennaigh, william	17	Hull, Lee	Murphysboro
Triffin John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Rewanee.  From John O  Robbert C  Pontiae.  From William  From William  From John O  Belleville Jackson, William Minonk  Jacobs Janes M  Jacobs Janes M  Moweaqna  Jacobs William Murphysboro  Johnson John W  Birkner John Mirkner Milliam Murphysboro  Johnson John W  Birkner Johnson William I  Soperville  Johnson Nobert Pawnee  Johnson Nobert Pawnee  Johnson John W  Soperville  Johnson Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson William I  Soperville  Johnston Joseph R  Johnson William I  Soperville  Johnston Joseph R  Pontiae  Johnson John P  Marissa  Jaren Oscar  Lebanon Jones John P  Jones Jones Henry E  Jones Jones Marissa  Jarer Oscar  Lebanon Jones William Braceville  Jarrey William Braceville  Jordan Robert Streator  Judd Charles E  Edwardsville  Jordan Robert  Streator	vrice, Albert	Kewanee	Humphrey, Chas	Edinourg
iroon, William reistlorfor, Fred. DeSoto.  will be with a compared to the comp	Trieves, James	Dirkner		
iroon, William reistlorfor, Fred. DeSoto.  will be with a compared to the comp	Trum, John O	Delleville	Inmin Person	Pana
iroon, William reistlorfor, Fred. DeSoto.  will be with a compared to the comp	Proom, Alexander	Belleville	lewin lohn	Gillasnia
irubb, Michael.   Riverton   Greistdorfor, Fred   DeSoto   DeSoto   DeSoto   Jacobs, George R   Elnwood   Jacobs, James M   Moweaqua   Jacobs, James M   Moweaqua   Jacobs, James M   Moweaqua   Jacobs, William   Murphysboro   Jacobs, William   Murphysboro   Jacobs, William   Murphysboro   Jacobs, William   Murphysboro   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. James   Marrissa   Marrissa   Jacobs, W. James   Marrissa   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, Jac	From James	**	Irwin Robert K	Pontine
irubb, Michael.   Riverton   Greistdorfor, Fred   DeSoto   DeSoto   DeSoto   Jacobs, George R   Elnwood   Jacobs, James M   Moweaqua   Jacobs, James M   Moweaqua   Jacobs, James M   Moweaqua   Jacobs, William   Murphysboro   Jacobs, William   Murphysboro   Jacobs, William   Murphysboro   Jacobs, William   Murphysboro   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. Sr.   Peoria   Jacobs, W. James   Marrissa   Marrissa   Jacobs, W. James   Marrissa   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, W. James   Jacobs, Jac	From William	**	Leadore George	Roshoro
room, John. Belleville Jacobs, Groge R. Elmwood, Jacobs, James M. Moveaqua, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, W.Sr. Peoria, Jacobs, William Murphysboro, Jacobs, W.Sr. Peoria, Jacobs, William Murphysboro, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Johnson, John M. Bloomington, Jacobs, M. Perdonia, Johnson, M. Dallevion, James H. Sparland, Johnson, Milliam H. Sopriyelle, Janidle, Ledlie, Tayloryille, Johnston, Joseph R. Portiae, Janes, W. J. Salem Jones, George Belleville, Jankins, John W. Sorento, Jones, John P. Marissa, Jaroney, William, Jones, Jone	irubb Michael.	Riverton	istatore, deorge	
room, John. Belleville Jacobs, Groge R. Elmwood, Jacobs, James M. Moveaqua, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, William Murphysboro, Jacobs, W.Sr. Peoria, Jacobs, William Murphysboro, Jacobs, W.Sr. Peoria, Jacobs, William Murphysboro, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Jacobs, W.Sr. Peoria, Johnson, John M. Bloomington, Jacobs, M. Perdonia, Johnson, M. Dallevion, James H. Sparland, Johnson, Milliam H. Sopriyelle, Janidle, Ledlie, Tayloryille, Johnston, Joseph R. Portiae, Janes, W. J. Salem Jones, George Belleville, Jankins, John W. Sorento, Jones, John P. Marissa, Jaroney, William, Jones, Jone	reistdorfor, Fred	DeSoto		1
Jacobs W. Hilam	Juy. D. F	Springfield	Jackson, William	Minonk
Jacobs W. Hilam	Froom, John	Belleville	Jacobs, George R	Elmwood
Jacobs W. Hilam			Jacobs, James M	Moweaqua
Salem			Jacobs, William	Murphysboro
Salem	Hackett, Owen	Spaulding	Jacobs, W., Sr	Peoria
Salem	Haddick, William L	Sherrard	Jeffrey, James	Marrissa
Salem	Haensel, Edward	Lenzburg	Jeffrey, John	Belleville
Salem	Haensel, David		Jenkins, John L	Danville
Salem	Hagler, Charles	Fredonia	Jenkins, T. E	Athens
Salem	dale, William T	Troy	Jenks, William	Bloomington
Salem	dall, G. K	Colchester	Johnson, John W	Birkner
Salem	Hall, tr. R.	Niiwood	Johnsonn, J. S	DuQuoin
Salem	namilton, Chas. E	Canton	Johnson, Robert	rawnee
Salem	Jampton, James II	Mumbrahana	Johnson, William I	Spring Veller
Salem	Jand D I	Poorio	Johnston Joseph P	Posting Valley
Salem	Jandle Ledlie	Terlorville	Johnston, Joseph R	т оптас
farvey, Wm. R Wanlock	Janenstein J W	Willieville	Lol neton Thomas B	Freehurg
farvey, Wm. R Wanlock	Hanes W. J	Salem	Jones George	Belleville
jarvey, Wm. R Wanlock	Jankins John W	Sarento	Jones Henry E	Stannton
jarvey, Wm. R Wanlock	Janson William	O'Fallon	Jones John P	Marissa
jarvey, Wm. R Wanlock	lanvey, John J	Collinsville	Jones Jonathan Jr	
jarvey, Wm. R Wanlock	lanvey, Robert	Commistant mile	Jones Jonathan Sr	**
jarvey, Wm. R Wanlock	lanvey, William	**	Jones, Joseph	Staunton
jarvey, Wm. R Wanlock	lapper Frank	Edwardsville	Jones, Logan	Marissa
jarvey, Wm. R Wanlock	Harding, Enos	Birkner	Jones, Phelix E	Barclay
jarvey, Wm. R Wanlock	Iarper, Oscar	Lebanon	Jones, William	Marissa
jarvey, Wm. R Wanlock	lardy. Thos. W	Dawson	Jones, William	Braceville
jarvey, Wm. R Wanlock	Iarris, J. W	Springfield	Jordan, Robert	Streator
jarvey, Wm. R Wanlock	Jartman, Frank	Murphysboro	Judd, Charles E	Edwardsville
favel, Joseph     French Village       fawker, J. O.     Pana       fayes, Arthur H.     Danville       fayes, James     Bloomington       fayer, George     Murphysboro       feel, Robert     D       fead, Johns     Assumption       Kelly, Chas     Streator       feendrick     C       Wanlock     Kennedy, Fred     Cambridge       fennegan     John     Kennedy, Wanlock       kennedy     Kerchner, Howard     Belleville       feppard     téeorge     Belleville       kessick     Chas     W       Decatur     Decatur	darvey, Wm. R	Wanlock		
Jawker, J. O.         Pana layes, Arthur H.         Keating, Edward F.         Streator Layes, Island           Jayes, James.         Bloomington.         Kelley, James D.         Carbon Hill           Jayler, George L.         Murphysboro         Kelley, Robert D.         Streator Lead, John S.           Jead, John S.         Assumption         Kelly, Chas         Streator Lead, John S.           Jendrick, C. W.         O'Fallon         Kenady Fred A.         Cambridge           Jennegan, John F.         Wanlock         Kennedy, W. J.         Edwardsville           Jenry, Philip         Kewanee         Kerchner, Howard         Belleville           Leppard, Vieorge         Belleville         Kessick, Chas, W.         Decatur	lavel, Joseph	French Village		
fayes, Arthur H     Danville     Keating, Richard       fayes, James     Bloomington     Kelley, James D     Carbon Hill       fayler, George L     Murphysboro     Kelley, Robert D     Streator       lead, John S     Assumption     Kelly, Chas     Streator       lendrick, C     W     O'Fallon     Kenady, Fred     A Cambridge       lennegan     John F     Wanlock     Kennedy, W     Je     Edwardsville       lenprad     Jedery     Kerchner, Howard     Belleville       leppard     Jeorge     Kessick, Chas     W     Decatur	dawker, J. O	Pana	Keating, Edward F	Streator
tayes, James Bloomington, Kelley, James D. Carbon Hill fayler, George L. Murphysboro Kelley, Robert D. Saredor, Jead, John S. Assumption Kelly, Chas Streator, Jendrick C. W. O'Fallon, Kenady, Fred A. Cambridge, Jennegan, John F. Wanlock, Kennedy, W. J. Edwardsville Jenry, Philip Kewanee, Kerchner, Howard, Belleville, Leppard, Veorge Belleville, Kessick, Chas. W. Decatur	dayes. Arthur H		Keating, Richard	~ 1 ***********************************
fayler, George L.     Murphysboro     Kelley, Robert D.       lead, John S.     Assumption     Kelly, Chas.     Streator       lendrick, C. W.     O'Fallon     Kenady, Fred     A. Cambridge       lennegan, John F.     Wanlock     Kennedy, W.J.     Edwardsville       fenry, Philip     Kewanee     Kerchner, Howard     Belleville       leppard, George     Belleville     Kessick, Chas. W.     Decatur	dayes, James	Bloomington	Kelley, James D	Carbon Hill
tead, John S. Assumption Kelly, Chas Streator - Hendrick, C. W. O'Fallon Kenady, Fred A. Cambridge - Hendrick, C. W. J. Edwardsville - Henry, Philip. Kewanee. Kerndey, W. J. Edwardsville - Henry, Philip. Kewanee. Kerchner, Howard. Belleville - Kessick, Chas. W. Decatur	jayler, George L	Murphysboro	Kelley, Robert D	
energer (C. W. ) / Fallon   Kenady, Fred A   Cambridge   Lennegan, John F   Wanlock   Kennedy, W.J.   Edwardsville   Lenney, Philip   Kewanee   Kerchner, Howard   Belleville   Leppard, Leorge   Belleville   Kessick, Chas. W   Decatur	1ead, John S	Assumption	Kelly, Chas	Streator
rennegan, Jonn r. Waniock. Kennedy, W. J. Edwardsville Henry, Philip. Kewanee. Kerchner, Howard. Belleville. Leppard, George. Belleville. Kessick, Chas. W. Decatur	tenarick, C. W	O Fallon	Kenady, Fred A	Cambridge
Teppard, George Belleville Kersick, Chas. W Decatur	tennegan, John F	wanlock	Kennedy, W. J	Edwardsville
reppara treorge Belleville Kessick, Unas. W Decatur	Tenry, Philip	Newanee	Kerchner, Howard	pelleville
	Zordon Walton	Edward willo	Fidd Mongo	Feirmount

# Hoisting Engineers—Certificates of Competency—Continued.

Miller, James   Alma   Miller, James   Alma   Miller, T. H   Raymond   Miller, T. H   Raymond   Athens   Miller, William C   Rentchler, Lavalier, U. S   Chenoa   Mills Thomas S   Coal City   Chenoa   Moffat, R. E   Cutler, Lavason, George   Cable   Monaghan, James   Gillespie   Glave, J. W   DeSoto   Moor, F. J. W   Springfield   Ledbitter, George   Sorento   Morck, John   Belleville   Lehman, Philip   Lebanon   Morgan, John C   Springfield		1		1
Killinger, John Kimber, John Kinber, John Kingerfus, Wm Kinghom, Belleville Kingborn, SW Kinghom, Staunton Stau	Name.	Postoffice.	Name.	Postoffice.
Killinger, John Kimber, John Kinber, John Kingerfus, Wm Kinghom, Belleville Kingborn, SW Kinghom, Staunton Stau	Kilbride T. C.	Farmington	Warland James	Wanana
Killinger, John Kimber, John Kinber, John Kingerfus, Wm Kinghom, Belleville Kingborn, SW Kinghom, Staunton Stau	Killinger C.	Collinsville	Marland William	Sparland
Killinger, John Kimber, John Kinber, John Kingerfus, Wm Kinghom, Belleville Kingborn, SW Kinghom, Staunton Stau	Killinger, Harry	Germantown	Marshall, Robert	
King, Alexander, St. King, L. B. King, Alexander, St. King, L. B.	Killinger, John	Collinsville	Martin, N. W	Marion
King, Alexander, St. King, L. B. King, Alexander, St. King, L. B.	Kimber, John	Ladd	Marxer, Louis J	Milstadt
King, Alexander, St. King, L. B. King, Alexander, St. King, L. B.	Kingerfus, Wm	Belleville	Massie, J. T	Belleville
King, Alexander, St. King, L. B. King, Alexander, St. King, L. B.	Kinghom, John	Staunton	Matthews. C	Willisville
Rirsiner Frank   Belleville   Meadows William   Ledford   Meyer   Henry   Trenton   Klingenfus, Edward   Miler   A. J. F   Centralia   Miller, Hugh   Braceville   Miller, Hugh   Braceville   Miller, Hugh   Braceville   Miller, Hugh   Braceville   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller,	King, Alexander, Sr	Carterville	Maure, william	Belleville
Rirsiner Frank   Belleville   Meadows William   Ledford   Meyer   Henry   Trenton   Klingenfus, Edward   Miler   A. J. F   Centralia   Miller, Hugh   Braceville   Miller, Hugh   Braceville   Miller, Hugh   Braceville   Miller, Hugh   Braceville   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller, Hugh   Miller,	Ling, Alexander, Jr	Cmithhono	Maxwell, Fred	Peoria
Klaus, Louis Kingenfus, Edward. Kinkner, Frank Kingenfus, Edward. Kinkner, Frank Kolfax Miller, A. J. F. Centralia Kinkner, Frank Kolfax Miller, A. J. F. Centralia Miller, J. J. F. Centralia Miller, Milliam C. Rentehler, Milliam Centralia Moras, J. J. J. J. W. Springfield Moras, J. J. W. Springfield Moras, J. J. W. Springfield Moras, J. J. W. Miller, J. J. W. Miller, J. J. W. Miller, J. J. W. Miller, J. J. W. Miller, J. J. W. Miller, J. J. W. Miller, J. J. W. Miller, J. J. W. Miller, J. J. W. Moras, J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. J. W. Moras, J. W. Moras, J. J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Moras, J. W. Mor	Kirchner Frank	Rolloville	Mandows William	
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa	Klaus, Louis	Benevine	Meyer Henry	Trenton
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa	Klingenfus, Edward		Michaels, Otto L	Belleville
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa	Klinkner, Frank	Colfax	Miller, A. J. F	Centralia
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa	Knapp, Enoch	Assumptio	Miller, Hugh	Braceville
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa			Miller, James	Alma
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa	T 1 ( C 787	r 0. 11	Miller, T. H	Raymond
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa	Lambert, George W	LaSalle	Miller, William C	Rentchler
Lawson, George Cable Monaghan, James Gillespie. Layne, J. W DeSoto Moor, F. J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Ledyne, J. W Springfield Morgan, John C Springfield Lemons, J. L Girard Morgan, William Carbon Hill Leslie, George Gardner Morgan, William Carbon Hill Leslie, George Gardner Morris, George Belleville Leslie, George Gardner Morris, James H Nashville Lewis, Alvin Carlin Morris, James H Nashville Lindskey, Martin H Streator Morris, William Morris, James Mt. Olive Lindstrom, Osear Sherrard Morrisw, Thomas Lebanon. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Braidwood Morrison, Archie Oglesby. Linksky, James Murphysboro Mulvany, A. T. Glenburn Linksky, James Murphysboro Murray, A. T. Glenburn Lockhet, Holis Murris, Mobert T. Norris Murray, Hugh. Belleville Lockhet, Lowis Niantic Murphy, Robert T. Norris Lockhet, William Carterville Murrie, Archie Trenton. Locke, William Carterville Murrie, Archie Trenton. Lochel, Frank Loding Murray, Hugh. Nashville Lochel, Frank Mt. Olive Lochel, Frank Mt. Olive Myers, Henry Minonk Lundy, J. P. Mt. Pulaski Negle, Jake Springfield Lundy, J. P. Mt. Pulaski Negle, Jake Springfield McLundy, J. P. Mt. Pulaski Negle, Jake Springfield McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Nevener, James Belleville McConache, Ed Auburn Norborg, Peter Galva. McHonaid, John Springfield Norborg, Peter Galva McConache, Ed Auburn Norborg, Peter Galva McHonaid, John Springfield Norborg, Peter Galva McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. Herrins Prairie McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowan, J. R. McGowa	Lorollion II S		Mills, Thomas S	Coal City
Lindstrom, Osear Sherrard Morris, William Lebanon. Lindstrom, Osear Sherrard Morrisor, Thomas. Lebanon. Linsky, James Braidwood Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Mulvany, A. T. Glenburn Linker, Patrick J Murphysboro Muren, Alfred L. Belleville Lockbart, Louis Niantie Murphy, Robert T. Norris Lockbert, Louis Niantie Murphy, Robert T. Norris Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murray, Joseph P. Rosboro. Long, Noah B. Pontiac Myers, Henry Minonk Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. W. Pulaski Nead, Ambrose Carlinville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McConach, Ed. Auburn Newal, Leroy Sparland. McConach, Ed. Auburn Nevener, James Belleville McConach, James J. Springfield. McConach, John Norborg, Peter Galva. McDonald, W. H. Pana McDonald, William J. Percy McFarland, F. E. Murphysboro Orbic, Terry Decatur McGowan, Edward Lincoln Ogden, Samuel. Mascoutah. McGowan, Edward Lincoln Carbon Hill McKean, Andrew McKean, John Carbon Hill McKean, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McKey, Frank W. Koanoke McYear, Donald. McYonach W. Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Donald	Lawson George	Cablo	Monaghan Iamas	Gillospio
Lindstrom, Osear Sherrard Morris, William Lebanon. Lindstrom, Osear Sherrard Morrisor, Thomas. Lebanon. Linsky, James Braidwood Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Mulvany, A. T. Glenburn Linker, Patrick J Murphysboro Muren, Alfred L. Belleville Lockbart, Louis Niantie Murphy, Robert T. Norris Lockbert, Louis Niantie Murphy, Robert T. Norris Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murray, Joseph P. Rosboro. Long, Noah B. Pontiac Myers, Henry Minonk Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. W. Pulaski Nead, Ambrose Carlinville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McConach, Ed. Auburn Newal, Leroy Sparland. McConach, Ed. Auburn Nevener, James Belleville McConach, James J. Springfield. McConach, John Norborg, Peter Galva. McDonald, W. H. Pana McDonald, William J. Percy McFarland, F. E. Murphysboro Orbic, Terry Decatur McGowan, Edward Lincoln Ogden, Samuel. Mascoutah. McGowan, Edward Lincoln Carbon Hill McKean, Andrew McKean, John Carbon Hill McKean, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McKey, Frank W. Koanoke McYear, Donald. McYonach W. Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Donald	Lavne J W	DeSoto	Moor F J W	Springfield
Lindstrom, Osear Sherrard Morris, William Lebanon. Lindstrom, Osear Sherrard Morrisor, Thomas. Lebanon. Linsky, James Braidwood Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Mulvany, A. T. Glenburn Linker, Patrick J Murphysboro Muren, Alfred L. Belleville Lockbart, Louis Niantie Murphy, Robert T. Norris Lockbert, Louis Niantie Murphy, Robert T. Norris Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murray, Joseph P. Rosboro. Long, Noah B. Pontiac Myers, Henry Minonk Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. W. Pulaski Nead, Ambrose Carlinville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McConach, Ed. Auburn Newal, Leroy Sparland. McConach, Ed. Auburn Nevener, James Belleville McConach, James J. Springfield. McConach, John Norborg, Peter Galva. McDonald, W. H. Pana McDonald, William J. Percy McFarland, F. E. Murphysboro Orbic, Terry Decatur McGowan, Edward Lincoln Ogden, Samuel. Mascoutah. McGowan, Edward Lincoln Carbon Hill McKean, Andrew McKean, John Carbon Hill McKean, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McKey, Frank W. Koanoke McYear, Donald. McYonach W. Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Donald	Ledbitter, George	Sorento	Morek, John	Belleville
Lindstrom, Osear Sherrard Morris, William Lebanon. Lindstrom, Osear Sherrard Morrisor, Thomas. Lebanon. Linsky, James Braidwood Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Mulvany, A. T. Glenburn Linker, Patrick J Murphysboro Muren, Alfred L. Belleville Lockbart, Louis Niantie Murphy, Robert T. Norris Lockbert, Louis Niantie Murphy, Robert T. Norris Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murray, Joseph P. Rosboro. Long, Noah B. Pontiac Myers, Henry Minonk Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. W. Pulaski Nead, Ambrose Carlinville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McConach, Ed. Auburn Newal, Leroy Sparland. McConach, Ed. Auburn Nevener, James Belleville McConach, James J. Springfield. McConach, John Norborg, Peter Galva. McDonald, W. H. Pana McDonald, William J. Percy McFarland, F. E. Murphysboro Orbic, Terry Decatur McGowan, Edward Lincoln Ogden, Samuel. Mascoutah. McGowan, Edward Lincoln Carbon Hill McKean, Andrew McKean, John Carbon Hill McKean, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McKey, Frank W. Koanoke McYear, Donald. McYonach W. Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Donald	Lehman, Philip	Lebanon	Morgan, John C	Springfield
Lindstrom, Osear Sherrard Morris, William Lebanon. Lindstrom, Osear Sherrard Morrisor, Thomas. Lebanon. Linsky, James Braidwood Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Mulvany, A. T. Glenburn Linker, Patrick J Murphysboro Muren, Alfred L. Belleville Lockbart, Louis Niantie Murphy, Robert T. Norris Lockbert, Louis Niantie Murphy, Robert T. Norris Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murray, Joseph P. Rosboro. Long, Noah B. Pontiac Myers, Henry Minonk Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. W. Pulaski Nead, Ambrose Carlinville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McConach, Ed. Auburn Newal, Leroy Sparland. McConach, Ed. Auburn Nevener, James Belleville McConach, James J. Springfield. McConach, John Norborg, Peter Galva. McDonald, W. H. Pana McDonald, William J. Percy McFarland, F. E. Murphysboro Orbic, Terry Decatur McGowan, Edward Lincoln Ogden, Samuel. Mascoutah. McGowan, Edward Lincoln Carbon Hill McKean, Andrew McKean, John Carbon Hill McKean, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McKey, Frank W. Koanoke McYear, Donald. McYonach W. Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Donald	Lemons, J. L	Girard	Morgan. William	Carbon Hill
Lindstrom, Osear Sherrard Morris, William Lebanon. Lindstrom, Osear Sherrard Morrisor, Thomas. Lebanon. Linsky, James Braidwood Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Mulvany, A. T. Glenburn Linker, Patrick J Murphysboro Muren, Alfred L. Belleville Lockbart, Louis Niantie Murphy, Robert T. Norris Lockbert, Louis Niantie Murphy, Robert T. Norris Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murray, Joseph P. Rosboro. Long, Noah B. Pontiac Myers, Henry Minonk Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. W. Pulaski Nead, Ambrose Carlinville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McConach, Ed. Auburn Newal, Leroy Sparland. McConach, Ed. Auburn Nevener, James Belleville McConach, James J. Springfield. McConach, John Norborg, Peter Galva. McDonald, W. H. Pana McDonald, William J. Percy McFarland, F. E. Murphysboro Orbic, Terry Decatur McGowan, Edward Lincoln Ogden, Samuel. Mascoutah. McGowan, Edward Lincoln Carbon Hill McKean, Andrew McKean, John Carbon Hill McKean, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McKey, Frank W. Koanoke McYear, Donald. McYonach W. Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Donald	Leslie, George	Gardner	Morris, George	Belleville
Lindstrom, Osear Sherrard Morris, William Lebanon. Lindstrom, Osear Sherrard Morrisor, Thomas. Lebanon. Linsky, James Braidwood Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Mulvany, A. T. Glenburn Linker, Patrick J Murphysboro Muren, Alfred L. Belleville Lockbart, Louis Niantie Murphy, Robert T. Norris Lockbert, Louis Niantie Murphy, Robert T. Norris Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murrie, Archie Trenton. Lockie, William Carterville Murray, Joseph P. Rosboro. Long, Noah B. Pontiac Myers, Henry Minonk Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. W. Pulaski Nead, Ambrose Carlinville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McAddams, John W. Percy Neentzel, Fred H. Caseyville. McConach, Ed. Auburn Newal, Leroy Sparland. McConach, Ed. Auburn Nevener, James Belleville McConach, James J. Springfield. McConach, John Norborg, Peter Galva. McDonald, W. H. Pana McDonald, William J. Percy McFarland, F. E. Murphysboro Orbic, Terry Decatur McGowan, Edward Lincoln Ogden, Samuel. Mascoutah. McGowan, Edward Lincoln Carbon Hill McKean, Andrew McKean, John Carbon Hill McKean, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McKeerman, John Belleville Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McLauchlan, F. T. Carbon Hill Osburn, Glen L McKey, Frank W. Koanoke McYear, Donald. McYonach W. Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Frank W. Koanoke McYear, Donald McYery, Donald	Leslie, N. B	Braidwood	Morris, James H	Nashville
Linsky, James Braidwood Morrisey, Thomas Lebanon. Linsky, Patrick J Murphysboro Morrison, Archie Oglesby. Linsky, Patrick J Murphysboro Muren, Alfred L Belleville. Locker Marchael Murphysboro Muren, Alfred L Belleville. Locker Millam Locker Murphysboro Muren, Alfred L Belleville. Locker Millam Locker Murphysboro Muren, Alfred L Belleville. Locker Millam Locker Murphysboro Muren, Alfred L Belleville. Locker Millam Locker Murphysboro Muren, Alfred L Belleville. Locker Millam Locker Murphysboro Muren, Alfred L Belleville. Locker Millam Locker Murphysboro Myers, Henry Minonk Locker Myers, Henry Minonk Myers, Henry Minonk Myers, Henry Minonk Lucht M. F Mt. Olive. Lundeen, Frank W Galva. Lundeen, Frank W Galva. Lundey, J. P Mt. Pulaski Neal, Ambrose Carlinville. McAddams, John W Percy Neal, Ambrose Carlinville. McCauley, Aaron Streator Newal, Leroy. Sparland. McCauley, Aaron Streator Newal, Leroy. Sparland. McCormack, James J Suburn Newal, Leroy. Sparland. McCormack, James J Suburn Newal, Leroy. Sparland. McCouley, G. L. Pawnee Nicol, Adolph Belleville. McDonald, W. H Pana McDonald, John Springfield. McDonald, William Jercy McFarland, F. Murphysboro McGuttigan, Thomas Pana O'Donnell, Michael Mascoutah. McGowan, Edward Lincolm. Ogden, Samuel. Mascoutah. McGowan, J. R. Herrins Prairie. Olinger, J. Odin McGowan, J. R. Herrins Prairie. Olinger, J. Odin McGowan, J. R. Herrins Prairie. Olinger, J. Odin McGowan, J. R. Herrins Prairie. Olinger, J. Odin McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, John Belleville. McLauchlan, F. T. Carbon Hill Osburn, Glein L. Odbonson City McKean, John Bolleville. Dobonson City McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke McKey, Frank W. Koanoke Mc	Lewis, Alvin	Catlin	Morris, James	Mt. Olive
Little, Thomas Murphysboro Muren Afreed L. Belleville Lockhart, Louis. Niantic Lockhart, Louis. Niantic Lockhart, Louis. Niantic Lockie, William. Carterville Murphy, Robert T. Norris Lockie, William. Carterville Murrie, Archie. Trenton. Murray, Joseph P. Rosboro. Loding, Chas A. Loding. Murray, Joseph P. Rosboro. Long, Noah B. Pontiac. Myers, Henry. Minonk. Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. P. Mt. Pulaski Neal, Ambrose. Carlinville. Needham, Daniel Breese. McAddams, John W. Perey Nelson, Andrew V. Centralia. Nelson, John Belleville. Nelson, John Belleville. Nelson, John Belleville. Norborg, Peter. Galva. Nelson, John Belleville. Norborg, Peter. Galva. Norborg, Peter. Galva. Norborg, Peter. Galva. McGiustan, Thomas Pana. O'Donnell, Michael Mascoutah. McGiustan, Thomas Pana. O'Donnell, Michael Mascoutah. McGiustan, J. R. Herrins Prairie. Olinger, J. Odin. Mascoutah. McGiustan, J. R. Herrins Prairie. Olinger, J. Odin. Nelson, J. R. Herrins Prairie. Olinger, J. Centralia. Nelson, James Murphysboro McKeen, L. Lake Creek. Osborn, Benjamin. Streator. McKeen, C. L. Lake Creek. Osborn, Benjamin. Streator. McKeen, James Murphysboro McKeen, C. L. Lake Creek. Osborn, Benjamin. Streator. McKeen, Jonald. LaSalle. Paddock, W. D. Pana	Lindstrom Ocean	Streator		Lohanon
Little, Thomas Murphysboro Muren Afreed L. Belleville Lockhart, Louis. Niantic Lockhart, Louis. Niantic Lockhart, Louis. Niantic Lockie, William. Carterville Murphy, Robert T. Norris Lockie, William. Carterville Murrie, Archie. Trenton. Murray, Joseph P. Rosboro. Loding, Chas A. Loding. Murray, Joseph P. Rosboro. Long, Noah B. Pontiac. Myers, Henry. Minonk. Lucht, M. F. Mt. Olive. Lundeen, Frank W. Galva. Lundeen, Frank W. Galva. Lundey, J. P. Mt. Pulaski Neal, Ambrose. Carlinville. Needham, Daniel Breese. McAddams, John W. Perey Nelson, Andrew V. Centralia. Nelson, John Belleville. Nelson, John Belleville. Nelson, John Belleville. Norborg, Peter. Galva. Nelson, John Belleville. Norborg, Peter. Galva. Norborg, Peter. Galva. Norborg, Peter. Galva. McGiustan, Thomas Pana. O'Donnell, Michael Mascoutah. McGiustan, Thomas Pana. O'Donnell, Michael Mascoutah. McGiustan, J. R. Herrins Prairie. Olinger, J. Odin. Mascoutah. McGiustan, J. R. Herrins Prairie. Olinger, J. Odin. Nelson, J. R. Herrins Prairie. Olinger, J. Centralia. Nelson, James Murphysboro McKeen, L. Lake Creek. Osborn, Benjamin. Streator. McKeen, C. L. Lake Creek. Osborn, Benjamin. Streator. McKeen, James Murphysboro McKeen, C. L. Lake Creek. Osborn, Benjamin. Streator. McKeen, Jonald. LaSalle. Paddock, W. D. Pana	Linsky James	Braidwood	Morrison Archie	Oglesby
Lockhart Louis Niantice Murphy Robert T. Norrish Locke William Carterville Murphy Robert T. Norrish Locke William Carterville Murris, Archie Trenton Locket, William Carterville Murris, Archie Trenton Murphy Robert T. Norrish Murrish Carterville Murrish Reshort Carterville Murrish Reshort Carterville Murrish Reshort Carterville Murrish Reshort Carterville Murrish Reshort Carterville Murrish Reshort Carterville Murrish Reshort Carterville Murrish Reshort Carterville Murrish Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort Carterville Medical Reshort R	Linsky, Patrick J	Braid, wood	Mulvany, A. T	Glenburn
Looding Chas A Loding Murray, Hugh. Nashville Loebel, Frank Trenton Murray, Joseph P. Rosboro. Weekan, John W Percy Myers, Henry Minonk. Lundeen, Frank W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W M Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Lawkeen, John Belleville Paddock, W D. Pana W Lunder W Lawkeen, John Benjamin Streator W Lawkeen, John Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, Jo	Little, Thomas	Murphysboro	Muren, Alfred L	Belleville
Looding Chas A Loding Murray, Hugh. Nashville Loebel, Frank Trenton Murray, Joseph P. Rosboro. Weekan, John W Percy Myers, Henry Minonk. Lundeen, Frank W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W M Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Belleville Osburn, Benjamin Streator W Lawkeen, John Lawkeen, John Belleville Paddock, W D. Pana W Lunder W Lawkeen, John Benjamin Streator W Lawkeen, John Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, John Benjamin Streator Details W Lawkeen, Jo	Lockhart, Louis	Niantie	Murphy, Robert T	Norris
Lundeen, Frank W. Galva.  Galva.  Lundey, J. P. Mt. Pulaski.  Lundey, Ralph. Ridge Prairie.  McAddams, John W. Percy. Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Neendal, Ambrose. Casleville.  Neendal, James. Belleville.  Norton, William J. Percy.  McPanland, F. E. Murphysboro.  McCourach, James. Mascoutah.  McGowan, Edward. Lincoln Ogden, Samuel. Mascoutah.  McKean, Andrew. Herrins Prairie.  McKean, Andrew. Carbon Hill.  McKean, Andrew. Coal City.  McKean, John. Carbon Hill.  McKeerman, J. B. Athens.  Ord. S. R. Mt. Vernon.  McKeerman, John. Belleville.  McKeerman, John. Belleville.  McKeerman, John. Belleville.  McLauehlan, F. T. Carbon Hill.  McCoarbon Hill.  McC	Lockie, William	Carterville		
Lundeen, Frank W. Galva.  Galva.  Lundey, J. P. Mt. Pulaski.  Lundey, Ralph. Ridge Prairie.  McAddams, John W. Percy. Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Neendal, Ambrose. Casleville.  Neendal, James. Belleville.  Norton, William J. Percy.  McPanland, F. E. Murphysboro.  McCourach, James. Mascoutah.  McGowan, Edward. Lincoln Ogden, Samuel. Mascoutah.  McKean, Andrew. Herrins Prairie.  McKean, Andrew. Carbon Hill.  McKean, Andrew. Coal City.  McKean, John. Carbon Hill.  McKeerman, J. B. Athens.  Ord. S. R. Mt. Vernon.  McKeerman, John. Belleville.  McKeerman, John. Belleville.  McKeerman, John. Belleville.  McLauehlan, F. T. Carbon Hill.  McCoarbon Hill.  McC	Loding, Chas A	Loding	Murray, Hugh	Nashville
Lundeen, Frank W. Galva.  Galva.  Lundey, J. P. Mt. Pulaski.  Lundey, Ralph. Ridge Prairie.  McAddams, John W. Percy. Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Needham, Daniel. Breese.  Neendal, Ambrose. Casleville.  Neendal, James. Belleville.  Norton, William J. Percy.  McPanland, F. E. Murphysboro.  McCourach, James. Mascoutah.  McGowan, Edward. Lincoln Ogden, Samuel. Mascoutah.  McKean, Andrew. Herrins Prairie.  McKean, Andrew. Carbon Hill.  McKean, Andrew. Coal City.  McKean, John. Carbon Hill.  McKeerman, J. B. Athens.  Ord. S. R. Mt. Vernon.  McKeerman, John. Belleville.  McKeerman, John. Belleville.  McKeerman, John. Belleville.  McLauehlan, F. T. Carbon Hill.  McCoarbon Hill.  McC	Loebel Frank	Trenton	Murray, Joseph P	Rosboro
Lundeen, Frank W. Galva. Lundy, J. P. Mt. Pulaski Neal, Ambrose Carlinville. McAddams, John W. Percy Needham, Daniel Breese. McAddams, John W. Percy Needham, Daniel Breese. McGonachie, Ed. Streator Needham, Daniel Breese. McConachie, Ed. Auburn Nevener, Janes Belleville. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McCormack, James J. Springfield. Nichols, John Athens. McDonald, W. H. Prongfield. Norborg, Teter. McParland, F. E. Murphysboro McGrand, F. E. Murphysboro McGowan, J. R. Herrins Prairie. McGowan, J. R. Herrins Prairie. McKean, Andrew Coal City. McKean, John Carbon Hill O'Neal, James McKean, John Carbon Hill O'Neal, James McKean, John Belleville. Osburn, Glen L McKeerman, J. B. Athens. Ord, S. R. Mt. Vernon McKeerman, John Belleville. Osburn, Glen L McLauchlan, F. T. Carbon Hill O'tto, John. Collinsville McLauchlan, F. T. Carbon Hill O'tto, John. McLauchlan, F. T. Carbon Hill O'tto, John. McLauchlan, F. T. Carbon Hill O'tto, John. McCuster Dead. McVernon McCyer, Frank W. Roanoke McVernon McVey, Frank W. Roanoke McVernon Donald. McVernon McVey, Frank W. Roanoke McVernon Donald. McVernon McVey, Frank W. Roanoke McVernon Donald. McVernon McVey, Frank W. Roanoke McVernon Donald. McVernon McVey, Frank W. Roanoke McVernon Donald. McVernon McVey, Frank W. Roanoke	Long, Noan D	Mt Olive	Myers, Henry	Minonk
McAddams, John W McCanley, Aaron Streator Newal, Leroys Spariand, Nentzel, Fred H. Caseyville Net Committee, Grant Spariand, Newal, Leroys Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Net Committee, Grant Spariand, Net Committee, Grant Spariand, Norton, William Oglesby McDonald, W. H. Pana McDonald, William Jercy McFarland, F. Murphysboro O'Brien, Terry Decatur McGittigan, Thomas Pana O'Donnell, Michael Mascoutah, McGiowan, Edward Lincoln, Ogden, Samuel, Mascoutah, McGiowan, J. R. Herrins Prairie, Olinger, J. Odin McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, C. L. Lake Creek Osborne, Benjamin Streator McLauchlan, F. T. Carbon Hill Otto, John Johnson City McPherson, James Murphysboro McVey, Frank W. Koanoke McVey, Fr	Landeen Frank W	Golya		
McAddams, John W McCanley, Aaron Streator Newal, Leroys Spariand, Nentzel, Fred H. Caseyville Net Committee, Grant Spariand, Newal, Leroys Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Net Committee, Grant Spariand, Net Committee, Grant Spariand, Norton, William Oglesby McDonald, W. H. Pana McDonald, William Jercy McFarland, F. Murphysboro O'Brien, Terry Decatur McGittigan, Thomas Pana O'Donnell, Michael Mascoutah, McGiowan, Edward Lincoln, Ogden, Samuel, Mascoutah, McGiowan, J. R. Herrins Prairie, Olinger, J. Odin McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, C. L. Lake Creek Osborne, Benjamin Streator McLauchlan, F. T. Carbon Hill Otto, John Johnson City McPherson, James Murphysboro McVey, Frank W. Koanoke McVey, Fr	Lundy, J. P.	Mt Pulaski	Nagle Jake	Springfield
McAddams, John W McCanley, Aaron Streator Newal, Leroys Spariand, Nentzel, Fred H. Caseyville Net Committee, Grant Spariand, Newal, Leroys Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Newal, Leroys Spariand, Net Committee, Grant Spariand, Net Committee, Grant Spariand, Net Committee, Grant Spariand, Norton, William Oglesby McDonald, W. H. Pana McDonald, William Jercy McFarland, F. Murphysboro O'Brien, Terry Decatur McGittigan, Thomas Pana O'Donnell, Michael Mascoutah, McGiowan, Edward Lincoln, Ogden, Samuel, Mascoutah, McGiowan, J. R. Herrins Prairie, Olinger, J. Odin McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, Andrew Coal City Olson, August Streator McKean, C. L. Lake Creek Osborne, Benjamin Streator McLauchlan, F. T. Carbon Hill Otto, John Johnson City McPherson, James Murphysboro McVey, Frank W. Koanoke McVey, Fr	Lundley, Ralph	Ridge Prairie	Neal, Ambrose	Carlinville
McConachie, Ed. Auburn Streator Nevener, James Belleville McCormack, James J Springfield Nichols, John Athens. Wicol, Adolph Belleville McColley, Charles Assumption. Nichols, John Athens. McColley, Charles Assumption. Norborg, Peter. Galva. McDonald, W. H. Springfield. Norborg, Wellam Oglesby McParland, F. E. Murphysboro O'Brien, Terry. Decatur McGottigan, Thomas Pana. O'Bonnell, Michael. Mascoutah, McGowan, J. R. Herrins Prairie. O'Inger, J. Odin. McKean, Andrew Coal City. O'Gren, Samuel. Mascoutah. McGowan, J. R. Herrins Prairie. O'Inger, J. Odin. McKean, Andrew Coal City. O'Inger, J. Odin. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKeen. Ch. L. Lake Creek. Osborne, Benjamin Streator. McKee, C. L. Lake Creek. Osborne, Benjamin Streator. McKeennan, John Belleville. Osburn, Glen L. McLauchlan, F. T. Carbon Hill O'tto, John. Collinsville McLauchlan, F. T. Carbon Hill O'tto, John. Ollinsville McLauchlan, James Murphysboro. McVey, Frank W. Koanoke. McVey. Pana			Needham, Daniel	Breese
McConachie, Ed. Auburn Streator Nevener, James Belleville McCormack, James J Springfield Nichols, John Athens. Wicol, Adolph Belleville McColley, Charles Assumption. Nichols, John Athens. McColley, Charles Assumption. Norborg, Peter. Galva. McDonald, W. H. Springfield. Norborg, Wellam Oglesby McParland, F. E. Murphysboro O'Brien, Terry. Decatur McGottigan, Thomas Pana. O'Bonnell, Michael. Mascoutah, McGowan, J. R. Herrins Prairie. O'Inger, J. Odin. McKean, Andrew Coal City. O'Gren, Samuel. Mascoutah. McGowan, J. R. Herrins Prairie. O'Inger, J. Odin. McKean, Andrew Coal City. O'Inger, J. Odin. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKeen. Ch. L. Lake Creek. Osborne, Benjamin Streator. McKee, C. L. Lake Creek. Osborne, Benjamin Streator. McKeennan, John Belleville. Osburn, Glen L. McLauchlan, F. T. Carbon Hill O'tto, John. Collinsville McLauchlan, F. T. Carbon Hill O'tto, John. Ollinsville McLauchlan, James Murphysboro. McVey, Frank W. Koanoke. McVey. Pana			Nelson, Andrew V	Centralia
McConachie, Ed. Auburn Streator Nevener, James Belleville McCormack, James J Springfield Nichols, John Athens. Wicol, Adolph Belleville McColley, Charles Assumption. Nichols, John Athens. McColley, Charles Assumption. Norborg, Peter. Galva. McDonald, W. H. Springfield. Norborg, Wellam Oglesby McParland, F. E. Murphysboro O'Brien, Terry. Decatur McGottigan, Thomas Pana. O'Bonnell, Michael. Mascoutah, McGowan, J. R. Herrins Prairie. O'Inger, J. Odin. McKean, Andrew Coal City. O'Gren, Samuel. Mascoutah. McGowan, J. R. Herrins Prairie. O'Inger, J. Odin. McKean, Andrew Coal City. O'Inger, J. Odin. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKean, John. Carbon Hill O'Neal, James. McKeen. Ch. L. Lake Creek. Osborne, Benjamin Streator. McKee, C. L. Lake Creek. Osborne, Benjamin Streator. McKeennan, John Belleville. Osburn, Glen L. McLauchlan, F. T. Carbon Hill O'tto, John. Collinsville McLauchlan, F. T. Carbon Hill O'tto, John. Ollinsville McLauchlan, James Murphysboro. McVey, Frank W. Koanoke. McVey. Pana	McAddams, John W	Percy	Nentzel, Fred H	Caseyville
McCulley, G. L. Pawnee. Nicol, Adolph. Belleville. McCulley, G. L. Pawnee. Nicol, Adolph. Belleville. McCulley, G. L. Pawnee. Nicol, Adolph. Belleville. McCulley, G. L. Pawnee. Nicol, Adolph. Belleville. McDonald, W. H. Pana. McDonald, William J. Percy. Norton, William. Oglesby. McDonald, William J. Percy. O'Brien, Terry. Decatur. McGowan, T. Omas. Pana. McGowan, Edward. McGowan, Edward. McGowan, Edward. McGowan, Edward. McGowan, G. McKean, Andrew. Coal City. McKean, John. Carbon Hill. O'Neal, James. McKean, McKean, John. Carbon Hill. O'Neal, James. McKean, McKean, John. Carbon Hill. O'Neal, James. Mt. Vernon McKean, McKee, C. L. Lake Creek. Osborne, Benjamin. Streator. McKee, C. L. Lake Creek. Osborne, Benjamin. Streator. McKeenenan, John. Belleville. Osburn, Glen L. McLauchlan, F. T. Carbon Hill. O'tto, John. Collinsville. McLauchlan, F. T. Carbon Hill. O'tto, John. Collinsville. McLauchlan, F. T. Carbon Hill. O'tto, John. Ollinsville. McLauchlin, George. McLey, Frank W. Koanoke. McVey, Frank W. Koanoke. McVey. Pana. W. McMeyner. Donald. LaSalle.	McCauley, Aaron	Streator	Newal, Leroy	Sparland
According	McCormack Ismes I	Auburn	Neveller, Julies	Athona
McKean, Andrew	McColley G. L.	Pownee	Nicol Adolph	Relleville
McKean, Andrew	McCunky, Tobias	Assumption	Norborg, Peter	Galva
McKean, Andrew	McDonald, John	Springfield	Norton, William	Oglesby
McKean, Andrew	McDonald, W. H	Pana		
McKean, Andrew	McDonald, William J	Percy	OID : M	- ·
McKean, Andrew	McCattigen Thomas	Murphysboro	O'Brien, Terry	Decatur
McKean, Andrew	McGowan Edward	Lincoln	Orden Samuel	
McKearnan, J. B.   Athens   Ord. S. R.   Mt. Vernon	McGowan J R	Howing Prairie	Olinger J	Odin
McKearnan, J. B.   Athens   Ord. S. R.   Mt. Vernon	McKean, Andrew	Coal City	Olson, Angust	Streator
McKearnan, J. B.   Athens   Ord. S. R.   Mt. Vernon	McKean, John	Carbon Hill	O'Neal, James	
McVey, Frank W. Roanoke Paddock W. D. Pana	McKean, Isaac	Coal City	Ople, Frederick	Mt. Olive
McVey, Frank W. Roanoke Paddock W. D. Pana	McKearnan, J. B	Athens	Ord, S. R	Mt. Vernon
McVey, Frank W. Roanoke Paddock W. D. Pana	McKee, C. L	Lake Creek	Osborne, Benjamin	Streator
McVey, Frank W. Roanoke Paddock W. D. Pana	McLaughlen F T	Belleville	Oster John	Callingrille
McVey, Frank W. Roanoke Paddock W. D. Pana	McLauchtan, F. T MeLauchtan, George	Carbon Hill	Onthones John	Lohngon City
	McPherson James	Murphyshoro	Outhouse, John	Sounson City
	McVey, Frank W	Roanoke		
	McVicar, Donald	LaSalle	Paddock. W. D	Pana
Maasburg, H. C.     Pinckneyville     Parker, Joseph M.     Murphysboro.       Madler, Charles H.     Staunton     Patterson, R. J.     Murphysboro.       Manley, Leo     Coffeen     Patterson, W. M.     St. Louis, Mo.       Mair, Max     Lebanon     Peacre, H. L.     Cable       Malcolm, Win, J.     Braceville     Peecher, David     Braidwood       Maltby, Edward     Braidwood     Pemberton, C. H.     DuQuoin.			Paden, J. W	Spring Valley
Gaasburg, H. C. Plinckneyville Parker, Joseph M. Murphysboro. Mader, Charles H. Stannton Patterson, R. J. Manley, Leo. Coffeen Patterson, W. M. St. Louis, Mo. Mainwaring, James Braceville. Pearce, H. L. Cable Mair, Max Lebanon Peecher, David. Braidwood. Malcolm, Wm. J. Braceville Peet, Chas. Marseilles Maltby, Edward. Braidwood. Pemberton, C. H. DuQuoin.			Parks, James	Streator
Mailey Leo	Maasburg, H. C	Pinckneyville	Parker, Joseph M	Murphysboro
Mainwaring, James Braceville. Pearce, H. Cable Mair, Max Lebanon Peecher, David. Braidwood. Malcolm, Wn. J. Braceville Peecher, Chas. Marseilles Maltby, Edward. Braidwood. Pemberton, C. H. DuQuoin.	Mander, Charles H	Staunton	Patterson, R. J	Ct I and Ma
Mair, Max. J. Braceville.   Fearce, H. L. Gable Wood.   Braidwood.   B	Mainwaring Iamas	Coneen	Page H	Coble
Malcolm, Wm. J. Braceville Peet, Chas Marseilles Maltby, Edward Braidwood Pemberton, C. H. DuQuoin.	Mair May	Lebanon	Peecher David	Braidwood
Maltby, EdwardBraidwood  Pemberton, C. HDuQuoin	Malcolm, Wm, J.	Braceville	Peet, Chas	Marseilles
	Maltby, Edward	Braidwood	Pemberton, C. H	DuQuoin

# Hoisting Engineers--Certificates of Competency.--Continued.

Perkes, Ephraim Petrea, J. W. Vandercook Sallach, George. Murphysboro Petrea, J. W. Vandercook Sallach, George. Chatham Petrens, George H. Derrin Sandach, J. E. Maryssa. Petrins, George H. Derrin Sandach, J. E. Maryssa. Petrins, George H. Derrin Sandach, J. E. Maryssa. Petrins, George H. Derrin Sandach, Richard, Clarke City Petrol, George H. Derrin Sandach, Richard, Clarke City Piper, Joseph Piper, Joseph Glen Carbon, Schaffet, Fred. Belleville Piper, Joseph P	Name.	Postofiice.	Name.	Postoffice.
Performs George H. Herrin Sands Robert K. Marls-a. Philips J M. Athen Savage, Rienard. Clarke City, Philips J M. Athen Savage, Rienard. Also Danville Control Savage, Rienard. Clarke City, Philips J M. Athen Savage, Rienard. Clarke Ci	Perkes, Ephraim	Soperville	Sadier, George	Murphysboro
Performs George H. Herrin Sands Robert K. Marls-a. Philips J M. Athen Savage, Rienard. Clarke City, Philips J M. Athen Savage, Rienard. Also Danville Control Savage, Rienard. Clarke City, Philips J M. Athen Savage, Rienard. Clarke Ci	Petrea, J. W	Vandercook	Sallade George	Chatham
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Pendergast, John	Centralia	Saffade, J. E.,	, :
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Perrins, George H	Herrio	Sands, Robert K	Marissa
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Philips, J. M	Works	Savage, Richard	Clarke City
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Piner Oliver G	Staunton	Sawlor C F	Murphysboro
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Piper, Joseph	Glen Carbon	Schaifer, Fred	Belleville
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Pircher, Peter P	Sandoval	Schramm, Charles	
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Pitra Frank	Odin	Scharinck, Frank	Edwardsville
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Pitt, Joseph	Trenton	Schmacker, Herman	Gleb Carbon
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Plinmar Sanismin	Streator	Schroeder Hanry	20. 011.6
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Plocker, Henry	Pana	Schnessell, Conrad	Breese
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Pointer, Edward H	Belleville	Schulte, Fritz	Clinton
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Powell, Edwin	Caseyville	Schumacher, Chas	Marissa
Pritchard, H. C. Lewiston Score, Fred D. Odin Pulch Pathel. St. John Seeman, John C. Cautrally Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Sorento. Scidel, Fred. Kinmundy Pulcer, R. H. Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Cautrally Seeman, John C. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. B. Colfax Quick, A. T. Sato. Sels, Chas. Sels,	Powell, F. C	Seatonville	Schumm, Fred W	Gardner
Quigley, Henry  Hallidayboro  Shroyer, A. D.  Shroyer, Caree, Gleberiae, Shroyer, Colleger W. Virginia, Marseller, Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, Caree, Greek, Shroyer, Misses, Westville, Shroyer, A. Shroyer, A. D.  Shroyer, C. H.  Shroyer, C. H.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C.	Price, Thomas	Spaulding	Scott, J. W	Colechester
Quigley, Henry  Hallidayboro  Shroyer, A. D.  Shroyer, Caree, Gleberiae, Shroyer, Colleger W. Virginia, Marseller, Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, Caree, Greek, Shroyer, Misses, Westville, Shroyer, A. Shroyer, A. D.  Shroyer, C. H.  Shroyer, C. H.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C.	Pritt Bard, H. C	St John	Seeman John C	Cantrall
Quigley, Henry  Hallidayboro  Shroyer, A. D.  Shroyer, Caree, Gleberiae, Shroyer, Colleger W. Virginia, Marseller, Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, Caree, Greek, Shroyer, Misses, Westville, Shroyer, A. Shroyer, A. D.  Shroyer, C. H.  Shroyer, C. H.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C.	Pullen R H	Sorento	Seidel Fred	Kinmundy
Quigley, Henry  Hallidayboro  Shroyer, A. D.  Shroyer, Caree, Gleberiae, Shroyer, Colleger W. Virginia, Marseller, Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, A. D.  Shroyer, Caree, Greek, Shroyer, Misses, Westville, Shroyer, A. Shroyer, A. D.  Shroyer, C. H.  Shroyer, C. H.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C. A.  Shroyer, C.	Pulver, R. H	Centralia	Seiler, William	Ormsby
Raber, F. C. Troy Raber, Louis. Colinsville. Siddall, John. Belleville. Radford, William T. Hoomington. Siddall, Levi Radford, William T. Hoomington. Siddall, Levi Rafter, Michael. Marquette. Solocum, Clarence. Gilchrist. Ransbeck, John. Braceville. Smith, Edward J. Colinsville. Randle, Caleb. Belleville. Smith, George W. St. Louis, Mo. Randle, William. Freeburg. Smith, George W. St. Louis, Mo. Randle, William. Freeburg. Smith, George W. St. Louis, Mo. Rasor, J. D. Staunton. Smith, S. Marseiller. Rawlings, Alex N. Cantrall. Smyth, C. M. Danville. Reagan, William. Mt. Olive. Sneddon, John. O'Fallon. Reatz, Hans. Lincoln. Sneddon, John. O'Fallon. Reading, Curtis. Niantic. Sneyd, James. Westville. Reed John. Herrin. Sowerby, Miles. Willisville. Reed John. Herrin. Sowerby, Miles. Willisville. Reed, W. J. Danville. Sparks, J. Mt. Vernon. Reetz, Herman. Lincoln. Sparling, Charles. Seatonville. Reeger, John C. Pinckneyville. Sparling, Charles. Seatonville. Reeger, John C. Pinckneyville. Sparling, Henry. Pontiac. Reilly, Henry. Toluca. Staffel, Martin. Toluca. Remains, Jacob. O Fallon. Stedman, Edgar. Missionfield. Remenlins, Jacob. O Fallon. Stedman, Edgar. Missionfield. Remenland, George. Trenton. Revalek, Joseph. Glen Carbon. Stedman, Edgar. Missionfield. Republinger. H. Belleville. Stanford, J. W. Pana. Republinger. H. Belleville. Stemmer. Theodore. Lengthy. Republinger. H. Belleville. Stemmer. James C. Carlon Hill. Republinger. H. Belleville. Stemmer. Lengthy. Stemmer. Lengthy. Stocker, A. E. Buffalo. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Letward. Helville. Richmond, John E. Coal City. Stowell, G. W. Bloomington. Rice, James M. Sunfield. Strone, Henry H. Athens. Roberts, John. Litchfield. Struse, Henry H. Athens. Robinson, J. A. Riverton. Stuart, John. Ladd. Robinson, J. A. Riverton. Stuart, John. Ladd.	Quick, A. T	Sato		
Raber, F. C. Troy Raber, Louis Colinsville. Siddall, John Belleville Radford, William T Bloomington Siddall, Levi Rafter, Michael Marquette. Siddall, Levi Raribeck, John Braceville Smith, Edward J Colinsville. Randle, Caleb. Belleville. Smith, Edward J Colinsville. Randle, Caleb. Belleville. Smith, Edward J Colinsville. Randle, William Freeburg. Smith, George W St. Louis, Mo. Rasor, J. D Staunton Smith, S. Marseiller Rawdings, Alex N Cantrall Smyth, C. M. Danville Reagan, William Mt. Olive Sneddon, John O'Fallen Reagan, William Mt. Olive Sneddon, John O'Fallen Reading, Curtis. Niantic Sneyd, James Westville. Reading, Curtis. Niantic Sneyd, James Westville. Reed John Herrin Sowerby, Miles Willisville Reed, W. J. Danville Sparling, Charles Seatonville. Reed, W. J. Danville Sparling, Charles Seatonville. Reeger, John C. Pinckneyville Sparling, Charles Seatonville. Reeilly, Henry Toliuca Staffel, Martin Toliuca Remains, Jacob O'Fallon. Remains, Jacob O'Fallon. Remains, Jacob O'Fallon. Reinhand, George Trenton Reyabek, Joseph Glen Carbon Stedman, Robert, Sr. Danville Rephinger, H. Belleville. Stanford, J. W. Pana Reyabek, Joseph Glen Carbon Reyabek, Joseph Glen Carbon Rice, C. D. Harrisburg, Stoker, A. E. Buffalo Richards, John T. Staunton Rice, Jane M. Sunfield. Stone, Edwan, Lebanon Rice, C. D. Harrisburg, Stoker, A. E. Buffalo Richards, John T. Staunton Rice, Jane M. Sunfield. Strone, Edwin. Worden Richards, John T. Staunton Richards, John T. Staunton Richards, John T. Staunton Richards, John T. Staunton Richards, John T. Staunton Richards, John T. Staunton Richards, John T. Staunton Richards, John T. Lichfield. Struse, Henry H. Athens Roberts, John L. Lichfield. Struse, Henry H. Athens Robinson, Charles Wenona Rusert, John Ladd. Robinson, Charles Wenona Rusert, John Ladd. Robinson, Charles Wenona Rusert, John Ladd. Robinson, Charles Wenona Rusert, John Ladd.	Quick, A. S. H		Seymour John	**
Raber, F. C. Troy Raber, Louis. Colinsville. Siddall, John. Belleville. Radford, William T. Hoomington. Siddall, Levi Radford, William T. Hoomington. Siddall, Levi Rafter, Michael. Marquette. Solocum, Clarence. Gilchrist. Ransbeck, John. Braceville. Smith, Edward J. Colinsville. Randle, Caleb. Belleville. Smith, George W. St. Louis, Mo. Randle, William. Freeburg. Smith, George W. St. Louis, Mo. Randle, William. Freeburg. Smith, George W. St. Louis, Mo. Rasor, J. D. Staunton. Smith, S. Marseiller. Rawlings, Alex N. Cantrall. Smyth, C. M. Danville. Reagan, William. Mt. Olive. Sneddon, John. O'Fallon. Reatz, Hans. Lincoln. Sneddon, John. O'Fallon. Reading, Curtis. Niantic. Sneyd, James. Westville. Reed John. Herrin. Sowerby, Miles. Willisville. Reed John. Herrin. Sowerby, Miles. Willisville. Reed, W. J. Danville. Sparks, J. Mt. Vernon. Reetz, Herman. Lincoln. Sparling, Charles. Seatonville. Reeger, John C. Pinckneyville. Sparling, Charles. Seatonville. Reeger, John C. Pinckneyville. Sparling, Henry. Pontiac. Reilly, Henry. Toluca. Staffel, Martin. Toluca. Remains, Jacob. O Fallon. Stedman, Edgar. Missionfield. Remenlins, Jacob. O Fallon. Stedman, Edgar. Missionfield. Remenland, George. Trenton. Revalek, Joseph. Glen Carbon. Stedman, Edgar. Missionfield. Republinger. H. Belleville. Stanford, J. W. Pana. Republinger. H. Belleville. Stemmer. Theodore. Lengthy. Republinger. H. Belleville. Stemmer. James C. Carlon Hill. Republinger. H. Belleville. Stemmer. Lengthy. Stemmer. Lengthy. Stocker, A. E. Buffalo. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Edwin. Worden. Rice, James M. Sunfield. Strone, Letward. Helville. Richmond, John E. Coal City. Stowell, G. W. Bloomington. Rice, James M. Sunfield. Strone, Henry H. Athens. Roberts, John. Litchfield. Struse, Henry H. Athens. Robinson, J. A. Riverton. Stuart, John. Ladd. Robinson, J. A. Riverton. Stuart, John. Ladd.	Quigley, Henry	Hallidayboro	Shroyer, A. D	Lincoln
Raber, Louis Collinsvine. Stadail, John Beleville Raifer, Michael Marquette. Sloeum Clarence Gilchrist Raifer, Michael Marquette. Sloeum Clarence Gilchrist Rander, William Braceville. Smith, George W. Virginia Raidel, Caleb. Belleville. Smith, George W. Virginia Raidel, Caleb. Belleville. Smith, George W. Virginia Raidel, Caleb. Belleville. Smith, George W. Virginia Michael Raidel, Caleb. Belleville. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Raidel, Caleb. Smith, George W. Virginia Michael Reading, Chris. Sheddon, John. O Pallen. Sneddon, Richard. Calin. Sneddon, Richard. Calin. Sneyd, James. Westville. Reading, Curtis. William W. Sneydon, James. Westville. Sneydon, James. Westville. Sparks, J. L. Mt. Vernon. Sparling, Charles. Seatonville. Sparks, J. L. Mt. Vernon. Sparling, Charles. Seatonville. Sparks, J. L. Mt. Vernon. Sparling, Charles. Seatonville. Sparling, Charles. Seatonville. Sparling, Charles. Seatonville. Reilly, Henry Toluca. Stanfel, Martin Toluca. Stanfel, Martin Toluca. Reimann, John. Belleville. Stanford, J. W. Pana. Reimann, Jacob. O Fallon. Stedman, Edgar Missionfield. Rennard, Jas. Ed. Grape Creek. Stedman, Robert, Sr. Danville. Rennie, Janes. George Trenton. Stedman, Robert, Sr. Danville. Reyabek, Joseph. Glen Carbon. Stewart, La. A. Mt. Vernon. Rennie, Janes. M. Sunfield. Stewart, L. A. Mt. Vernon. Stephen, C. H. Springfield. Rice, James M. Sunfield. Stewart, Leer. Michael Stephen, C. H. Springfield. Richards, John T. Staunton. Stout, F. M. Springfield. Richards, John T. Staunton. Stout, F. M. Springfield. Richards, John T. Staunton. Stout, F. M. Springfield. Richa	D. J. D. O.	IP.	Sninn, Charles	Springheid
Rawing, J. D. Rawings, Alex N. Rawlings, Alex N. Rawlings, Alex N. Read, Hans Lincoln Sneddon, John O'Fallen, Read, Hans Lincoln Sneddon, Rehard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sparks, J. L. Mt. Vernon, Sparling, Charles Scatonville. Reed, Archibald. Springfield Sparling, Henry Pontiac. Reid, Archibald. Springfield Sparling, Henry Pontiac. Reid, Henry Toluca Stanfel, Martin Toluca, Reimann, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Rennie, James Dumfermline Steinheimer, Theodore Lenzburg, Repplinger, H. Reyabek, Joseph Glen Carbon Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Steunton Stout, F. M. Springfield. Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysb	Raber, f. C	Collineville	Siddell John	Relleville
Rawing, J. D. Rawings, Alex N. Rawlings, Alex N. Rawlings, Alex N. Read, Hans Lincoln Sneddon, John O'Fallen, Read, Hans Lincoln Sneddon, Rehard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sparks, J. L. Mt. Vernon, Sparling, Charles Scatonville. Reed, Archibald. Springfield Sparling, Henry Pontiac. Reid, Archibald. Springfield Sparling, Henry Pontiac. Reid, Henry Toluca Stanfel, Martin Toluca, Reimann, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Rennie, James Dumfermline Steinheimer, Theodore Lenzburg, Repplinger, H. Reyabek, Joseph Glen Carbon Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Steunton Stout, F. M. Springfield. Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysb	Radford, William T	Bloomington	Siddall, Levi	Beng, me
Rawing, J. D. Rawings, Alex N. Rawlings, Alex N. Rawlings, Alex N. Read, Hans Lincoln Sneddon, John O'Fallen, Read, Hans Lincoln Sneddon, Rehard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sparks, J. L. Mt. Vernon, Sparling, Charles Scatonville. Reed, Archibald. Springfield Sparling, Henry Pontiac. Reid, Archibald. Springfield Sparling, Henry Pontiac. Reid, Henry Toluca Stanfel, Martin Toluca, Reimann, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Rennie, James Dumfermline Steinheimer, Theodore Lenzburg, Repplinger, H. Reyabek, Joseph Glen Carbon Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Steunton Stout, F. M. Springfield. Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysb	Rafter, Michael	Marquette	Slocum, Clarence	Gilchrist
Rawing, J. D. Rawings, Alex N. Rawlings, Alex N. Rawlings, Alex N. Read, Hans Lincoln Sneddon, John O'Fallen, Read, Hans Lincoln Sneddon, Rehard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sparks, J. L. Mt. Vernon, Sparling, Charles Scatonville. Reed, Archibald. Springfield Sparling, Henry Pontiac. Reid, Archibald. Springfield Sparling, Henry Pontiac. Reid, Henry Toluca Stanfel, Martin Toluca, Reimann, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Rennie, James Dumfermline Steinheimer, Theodore Lenzburg, Repplinger, H. Reyabek, Joseph Glen Carbon Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Steunton Stout, F. M. Springfield. Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysb	Raisbeck, John	Braceville	Smith, Edward J	Collinsville
Rawing, J. D. Rawings, Alex N. Rawlings, Alex N. Rawlings, Alex N. Read, Hans Lincoln Sneddon, John O'Fallen, Read, Hans Lincoln Sneddon, Rehard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Hans Lincoln Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sneddon, Richard, Catlin. Read, Martin Snewer, Mies Westville, Sparks, J. L. Mt. Vernon, Sparling, Charles Scatonville. Reed, Archibald. Springfield Sparling, Henry Pontiac. Reid, Archibald. Springfield Sparling, Henry Pontiac. Reid, Henry Toluca Stanfel, Martin Toluca, Reimann, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Remielins, Jacob O'Fallon Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Reichnan, George Tractice Stedman, Edgar Missionfield. Rennie, James Dumfermline Steinheimer, Theodore Lenzburg, Repplinger, H. Reyabek, Joseph Glen Carbon Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Chenoa Stewart, James C. Carbon Hill. Rhodes, Almon R. Steunton Stout, F. M. Springfield. Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Worden, Richart, Lec Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysboro Storm, Edwin Murphysb	Randle, Caleb	Belleville	Smith, George W	Virginia
Reed, Herman Lincoln Sparing, Charles Scatonville.  Reeger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reinard Comments of the Sparing Henry Pontiac Reinard Sparing, Henry Pontiac Reinard Pontiac Sparing, Henry Pontiac Reinard Pont			Smith, George W	St. Louis, Mo
Reed, Herman Lincoln Sparing, Charles Scatonville.  Reeger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reinard Comments of the Sparing Henry Pontiac Reinard Sparing, Henry Pontiac Reinard Pontiac Sparing, Henry Pontiac Reinard Pont	Rasor, J. D	Staunton	Sporth C M	Itanvilla
Reed, Herman Lincoln Sparing, Charles Scatonville.  Reeger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reinard Comments of the Sparing Henry Pontiac Reinard Sparing, Henry Pontiac Reinard Pontiac Sparing, Henry Pontiac Reinard Pont	Reagan William	Vt. Olive	Sneddon, John	O'Fallen
Reed, Herman Lincoln Sparing, Charles Scatonville.  Reeger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reinard Comments of the Sparing Henry Pontiac Reinard Sparing, Henry Pontiac Reinard Pontiac Sparing, Henry Pontiac Reinard Pont	Reatz, Hans	Lincoln	Sneddon, Richard	Catlin
Reed, Herman Lincoln Sparing, Charles Scatonville.  Reeger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reinard Comments of the Sparing Henry Pontiac Reinard Sparing, Henry Pontiac Reinard Pontiac Sparing, Henry Pontiac Reinard Pont	Reading, Curtis	Niantic	Sneyd, James	Westville
Reed, Herman Lincoln Sparing, Charles Scatonville.  Reeger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reger, John C Pinckneyville Sparing, Henry Pontiac Reinard Comments of the Sparing Henry Pontiac Reinard Sparing, Henry Pontiac Reinard Pontiac Sparing, Henry Pontiac Reinard Pont	Reed John	Herrin	Sowerby, Miles	Willisville
Reeger John C	Reed, W. J	Danville	Sparks, J. L	Mt. Vernon
Remain, Jacob OF allon Stedman, Edgar Missionfield Remard, Jase Bd Grape Creek Stedman, Robert, Sr Danville Reichman, George Trenton Sted Stedman, Robert, Sr Danville Reichman, George Trenton Stede, E. H. Salero Stedman, Robert, Sr Danville Reichman, George Trenton Stede, E. H. Salero Stede, J. Stedeman, Robert, Sr Danville Reichman, George Missioner,	Reetz, Herman	Pingkneyville	Sparling Henry	Seaton me
Remain, Jacob OF allon Stedman, Edgar Missionfield Remard, Jase Bd Grape Creek Stedman, Robert, Sr Danville Reichman, George Trenton Sted Stedman, Robert, Sr Danville Reichman, George Trenton Stede, E. H. Salero Stedman, Robert, Sr Danville Reichman, George Trenton Stede, E. H. Salero Stede, J. Stedeman, Robert, Sr Danville Reichman, George Missioner,	Reid. Archibald	Springfield	Spront, J. W	Pontiac
Remain, Jacob OF allon Stedman, Edgar Missionfield Remard, Jase Bd Grape Creek Stedman, Robert, Sr Danville Reichman, George Trenton Sted Stedman, Robert, Sr Danville Reichman, George Trenton Stede, E. H. Salero Stedman, Robert, Sr Danville Reichman, George Trenton Stede, E. H. Salero Stede, J. Stedeman, Robert, Sr Danville Reichman, George Missioner,	Reilly, Henry	Toluca	Stanfel, Martin	Toluca
Rice, C. D.         Harrisburg         Stoker, A. E.         Buffalo           Rice, James M.         Sunfield         Stone, Frank         Lebanon           Rice, Moses         Murphysboro         Storm, Edwin         Worden           Richards, John T.         Staunton         Stout, F. M.         Springfield           Richard, Lee         Moweaqua         Stout, W. E.         Rutand           Riehmond, John E.         Coal City         Stowell, G. W.         Bloomington           Riley, B. J.         Cantrall         Streik, William         Beleville           Riley, Michael         Grape Creek         Strive, William         Taylorville           Rippitoe, J. G.         Colechester         Stroud, William         Worden           Ritchie, John         Trenton         Struck, Carl         Springfield           Roberts, Johnthan         Willishile         Stuthard, Geo. B.         Westville           Robinson, Charles         Wenona         Swartz, Fred         Toluca	Reimann, John	Belleville	Stanford, J. W	Pana
Rice, C. D.         Harrisburg         Stoker, A. E.         Buffalo           Rice, James M.         Sunfield         Stone, Frank         Lebanon           Rice, Moses         Murphysboro         Storm, Edwin         Worden           Richards, John T.         Staunton         Stout, F. M.         Springfield           Richard, Lee         Moweaqua         Stout, W. E.         Rutand           Riehmond, John E.         Coal City         Stowell, G. W.         Bloomington           Riley, B. J.         Cantrall         Streik, William         Beleville           Riley, Michael         Grape Creek         Strive, William         Taylorville           Rippitoe, J. G.         Colechester         Stroud, William         Worden           Ritchie, John         Trenton         Struck, Carl         Springfield           Roberts, Johnthan         Willishile         Stuthard, Geo. B.         Westville           Robinson, Charles         Wenona         Swartz, Fred         Toluca	Remelius, Jacob	O Fallon	Stedman, Edgar	Missionfield
Rice, C. D.         Harrisburg         Stoker, A. E.         Buffalo           Rice, James M.         Sunfield         Stone, Frank         Lebanon           Rice, Moses         Murphysboro         Storm, Edwin         Worden           Richards, John T.         Staunton         Stout, F. M.         Springfield           Richard, Lee         Moweaqua         Stout, W. E.         Rutand           Riehmond, John E.         Coal City         Stowell, G. W.         Bloomington           Riley, B. J.         Cantrall         Streik, William         Beleville           Riley, Michael         Grape Creek         Strive, William         Taylorville           Rippitoe, J. G.         Colechester         Stroud, William         Worden           Ritchie, John         Trenton         Struck, Carl         Springfield           Roberts, Johnthan         Willishile         Stuthard, Geo. B.         Westville           Robinson, Charles         Wenona         Swartz, Fred         Toluca	Reinard, Jas. Ed	Grape Creek	Stedman, Robert, Sr	Danville
Rice, C. D.         Harrisburg         Stoker, A. E.         Buffalo           Rice, James M.         Sunfield         Stone, Frank         Lebanon           Rice, Moses         Murphysboro         Storm, Edwin         Worden           Richards, John T.         Staunton         Stout, F. M.         Springfield           Richard, Lee         Moweaqua         Stout, W. E.         Rutand           Riehmond, John E.         Coal City         Stowell, G. W.         Bloomington           Riley, B. J.         Cantrall         Streik, William         Beleville           Riley, Michael         Grape Creek         Strive, William         Taylorville           Rippitoe, J. G.         Colechester         Stroud, William         Worden           Ritchie, John         Trenton         Struck, Carl         Springfield           Roberts, Johnthan         Willishile         Stuthard, Geo. B.         Westville           Robinson, Charles         Wenona         Swartz, Fred         Toluca	Renni Andrew	Dumfermline	Steinheimer Theodore	Lenzhurg
Rice, C. D.         Harrisburg         Stoker, A. E.         Buffalo           Rice, James M.         Sunfield         Stone, Frank         Lebanon           Rice, Moses         Murphysboro         Storm, Edwin         Worden           Richards, John T.         Staunton         Stout, F. M.         Springfield           Richard, Lee         Moweaqua         Stout, W. E.         Rutand           Riehmond, John E.         Coal City         Stowell, G. W.         Bloomington           Riley, B. J.         Cantrall         Streik, William         Beleville           Riley, Michael         Grape Creek         Strive, William         Taylorville           Rippitoe, J. G.         Colechester         Stroud, William         Worden           Ritchie, John         Trenton         Struck, Carl         Springfield           Roberts, Johnthan         Willishile         Stuthard, Geo. B.         Westville           Robinson, Charles         Wenona         Swartz, Fred         Toluca	Rennie, James	Dumiciminae	Stephen, C. H	Spring Valley
Rice, C. D.         Harrisburg         Stoker, A. E.         Buffalo           Rice, James M.         Sunfield         Stone, Frank         Lebanon           Rice, Moses         Murphysboro         Storm, Edwin         Worden           Richards, John T.         Staunton         Stout, F. M.         Springfield           Richard, Lee         Moweaqua         Stout, W. E.         Rutand           Riehmond, John E.         Coal City         Stowell, G. W.         Bloomington           Riley, B. J.         Cantrall         Streik, William         Beleville           Riley, Michael         Grape Creek         Strive, William         Taylorville           Rippitoe, J. G.         Colechester         Stroud, William         Worden           Ritchie, John         Trenton         Struck, Carl         Springfield           Roberts, Johnthan         Willishile         Stuthard, Geo. B.         Westville           Robinson, Charles         Wenona         Swartz, Fred         Toluca	Repplinger, H	Belleville	Steward, L. A	Mt. Vernon
Rice, C. D.         Harrisburg         Stoker, A. E.         Buffalo           Rice, James M.         Sunfield         Stone, Frank         Lebanon           Rice, Moses         Murphysboro         Storm, Edwin         Worden           Richards, John T.         Staunton         Stout, F. M.         Springfield           Richard, Lee         Moweaqua         Stout, W. E.         Rutand           Riehmond, John E.         Coal City         Stowell, G. W.         Bloomington           Riley, B. J.         Cantrall         Streik, William         Beleville           Riley, Michael         Grape Creek         Strive, William         Taylorville           Rippitoe, J. G.         Colechester         Stroud, William         Worden           Ritchie, John         Trenton         Struck, Carl         Springfield           Roberts, Johnthan         Willishile         Stuthard, Geo. B.         Westville           Robinson, Charles         Wenona         Swartz, Fred         Toluca	Revabek, Joseph	Glen Carbon	Stewart, James C	Carbon Hill
Rice, James JJ Sunfield Stone, Frank Lebanon Rice, Mose Sun Rice, Mose Sun Murphysboro Storm, Edwin Worden Richards, John T Staunton Stout, F. JJ Springfield Richard, Lee J Stout, F. JJ Springfield Richard, Lee J Stout, F. JJ Springfield Stout, F	Rhodes, Almon R	Chenoa	Stewart, Peter	Murphysboro
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville. Robinson, Charles Weenon Stuart, John Ladd. Robinson, J. A Riverton Swartz, Fred Toluca	Rice, C. D	Harrisburg	Stoker, A. L	Lubenon
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville. Robinson, Charles Weenon Stuart, John Ladd. Robinson, J. A Riverton Swartz, Fred Toluca	Rice Moses	Murphyshoro	Storm Edwin	Worden
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville. Robinson, Charles Weenon Stuart, John Ladd. Robinson, J. A Riverton Swartz, Fred Toluca	Richards, John T	Staunton	Stout, F. M	Springfield
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville Robinson, Charles Weenon Stuart, John Ladd Robinson, J. A Riverton Swartz, Fred Toluca	Richart, Lee	Moweaqua	Stout, W. E	Rutland
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville Robinson, Charles Weenon Stuart, John Ladd Robinson, J. A Riverton Swartz, Fred Toluca	Richmond, John E	Coal City	Stowell, G. W	Bloomington
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville Robinson, Charles Weenon Stuart, John Ladd Robinson, J. A Riverton Swartz, Fred Toluca	Rilea, B. 1	Cantrall	Streik, William	Belleville
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville Robinson, Charles Weenon Stuart, John Ladd Robinson, J. A Riverton Swartz, Fred Toluca	Riley, Michael	Grape Creek	Strivey, William	I aylorville
Roberts, John Litchfield Struse, Henry H Athens Roberts, Jonathan Willisville Stuthard, Geo. B Westville Robinson, Charles Weenon Stuart, John Ladd Robinson, J. A Riverton Swartz, Fred Toluca	Ritabia John	Trenton	Struck Carl	Springfield
RODINSON, J. A. Riverton. Swartz, Fred. Toluca			Struse, Henry H	Athens
RODINSON, J. A. Riverton. Swartz, Fred. Toluca	Roberts, Jonathan	Willisville	Stuthard, Geo. B	Westville
RODINSON, J. A. Riverton. Swartz, Fred. Toluca	Robinson, Charles	Wenona	Stuart, John	Ladd
Agonison, Winiam A 101023 Rockey, Charles. Peoria Taylor, Edwin. Treuton. Rodgers, Edward. Murphysboro Taylor, Mack Westville. Rogers, Geo. R. Sunfield Tefft, Ernest. Mt. Olive. Rohour, Michael Grape Creck Temple, James C. Springfield. Rowland, Sidney G. Belleville. Terry, W. F. Litchield. Roy. A. L. Collinsville Thexton, Henry, Rushville. Royster, Richard Peoria Thomas, Fred Rutland. Russell, Zenas Pank. Thompson, Fred Westville.	Robinson, J. A	Kiverton	Swartz, Fred	Toruca
Rodgers Edward Murphysboro Taylor Mack Westville- Rogers, Geo, R. Sunfield Telft, Ernest Mt. Olive. Robour Michael Grupe Creek Temple James C. Springfield Rowland, Sidney G. Belleville Terry, W. F. Litchheld, Roy, A. L. Goldinsville Thexton, Henry Rushwille Royster, Richard Peorla Thomas, Fred Rutland, Russell, Zenas Pana Thompson, Fred Westville	Rockey Charles	Peoris	Taylor Edwin	Trenton
Rogers, Geo. R. Sunfield Tefft, Ernest Mt. Olive. Robour, Michael Grape Creek Temple, James C. Springfield Rowland, Sidney G. Belleville Terry, W.F. Litchield. Roy, A. L. Collinsville Thexton, Henry, Rushville Royster, Richard Peoria Thomas, Fred Rutland Russell, Zenas Pana, Thompson, Fred Westville. Rutlief Leges Valled Thompson, L.H. Westville	Rodgers, Edward	Murphyshore	Taylor, Mack	Westville
Robour, Michael Grape Creek Temple, James C Springfield Rowland, Sidney G. Belleville, Terry W. F. isitchield. Roy A. L. Collinsville, Thexton, Henry, Rushville Royster, Richard Peoria Thomas, Fred. Rutland Russell, Zenas Pana, Thompson, Fred. Westville.	Rogers, Geo. R	Sunfield	Tefft, Ernest	Mt. Olive
Rowland, Sidney G. Belleville. Terry, W. F. Litchfield.  Roy, A. L. Collinsville. Thexton, Henry. Rushville Royster, Richard. Peoria. Thomas, Fred. Rushand.  Russell, Zenas. Pana. Thompson, Fred. Westville.  Russell, Zenas. Pana. Thompson, Fred. Westville.	Rohour, Michael	Grape Creek	Temple, James C	Springfield
Koy A. L. Collinsville Thexton Henry Rushville Royster Richard Peoria Thomas Fred Rutland Russell, Zenas Pana, Thompson, Fred Westville Rushville Theory L. H. Westville Rushville Rowland, Sidney G	Bellevitle	Terry, W. F	Litchfield	
Russell, Zenas Pana Thompson, Fred Westville.  Partiff Lenas Achland Thompson, I H Varion	Koy, A. L	Collinsville	Thexton, Henry	Kushville
Rutliff Leng Ashland Thompson I H Manier	Russell Zonas	Pene	Thomas, Fred	Ruttana
	Rutliff, Isaac	Ashland	Thompson, J. H.	Marion

# $Hoisting\ Engineers-Certificates\ of\ Competency--Concluded.$

Name.	Postoffice.	Name.	Postoffice.
Tibballs, E. A. Travis, Alonzo. Travis, William Tregoning, Charles. Twomby, Edward.  Vaughn, John. Vandveer, Perry E.	Pana Birkner Carterville Coal Valley  McLean Taylorville	Wickersham, J. R. Wilkin, W. P. Williams, Huston Williams, John Williams, Thomas E. Williams, Watson Williams, William H. Williams, Wm. Hampton Williamson, Henry Williamson, William.	Springfield Spaulding Spring Valley St. David Virden Sherrard Murphysboro
Vernon, James Waggoner, William F	LaSalle	Wilson, David	Middle Grove Springfield
Wagmire, James Waldron, Thomas Walker, John H Walker, Joshua Wallford, Noah Wallock, Charles	Fredonia. Mt. Olive Hillsboro. Braceville	Wohlers, Henry Woodward, J. R. Woolbright, D. A. Woodworth, Peter. Wright, William M. Wrigley, James.	Streator. Centralia Pekin Pana
Waish, James D. Waiton, A. F. Waiton, Patrick Waiton, Joseph Wantling, T. J. Wandless, W. S. Warner, Richard. Wassel, Anton. Watson, Frank. Wattawa, Joseph	LaSalle Bureau Junction. St. David Pottstown. Collinsville. Troy. Braceville Springfield	Yates, John Yates, William Yehling, Fred H. Young, J K Young, James G. Young, Robert Young, A, O, K, Young, Peter J.	Coal City DuQuoin. Girard. Gardner. LaSalle Girard.
Watts, T. J Wente, Frank West, W. H. Westwood, Albert Westwood, Edward Wheatley, John W. White, Henry. White, Perry J. White, Robert	Elmwood. Nashville Mnrphysboro. Belleville Birkner Coal City Riverton. Springfield	Young W. L. Youngquist, Frank  Zeigler, John. Zink, Louis Zink, Peter A. Zuriker, Lorens	DuQuoin Sherrard Iles Junction Belleville

#### HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Ackerman, Jacob	Belleville	Cook, W. D	Westville
Allen, William H	Collinsville	Cotton, George	
Anthony, John C	Belleville	Cox, John	Ledford
		Craig, Daniel	Danville
Determine Teller	D . 12 3	Crawson, William	O Fallon
Saiwair, John	Braidwood	Crinigan, Barney	LaSane
	Ridge Prairie	Crocker, Edward	
Bath, Ameston	Cuba	Cruickshanks, Wm. A Cumming, Robert H. L	
Pell Goorge E	Springfield Canton	Cumming, Robert II. L	Sparianu
Benvannta Charles	Toluca		
Birkley N T	Cuba	Daley, Thomas	Diamond
Blue, Jesse	Norris	Dauek, John	LaSalle
Bonick, Andrew	Gilchrist	Davenport, Thomas	New Castle
Bowman, George W	Yates City	Davis, George W	Hanna City
Brown, G. A	Hes Junction	Davis, Thomas	
Brubeck, J. W	Pawnee	Davis, William H	Streator
Bumann, Albert	Springfield	Davison, J. G	St. John
		Dawson, John	Streator
	l	Dawson, Thomas	a
_ampbell,Albert	Pottstown	Dawson, V. C	Spring Valley.
ʻampbell, James	Coal City	DeBacher, Thomas	Elmwood
arsion, Alexander	Galva	DeHass, B. L	Tanuia
arrington, Eugene	Moweaqua	Dietrich, Philip	
Arter, Albert J	Pinckneyville Glenburn	Dillon, John Doe, R. P	
Jarle Charles V	Dn Quoin	Dodd, Samuel	
line John	LaSalle	Douu, Samuel	L Ottistown
Colline John	Birkner		1

# Certificates of Service—Continued

Y	Postoffice.	Name.	Postoffice.
Name.	Postomee.	Name.	Postomee.
Ebel, Angust	Belleville	McCalster, Thomas McDonald, William H	Muddy Valley
Edwards, George W	Springfield	McDonald, William H	Pana Pleasant Plains
Egerton, J. O	Colchester	McLean, John	Pleasant Plains
Ekis, Daniel B	Springfield	McLean, John McMillen, W. M McWerthy, G. A	Danville
Essex, George M	Soperville	McWerthy, G. A	Smithboro
vans, Albert	Glen Carbon		
verett, Charles	Rutland	M1 D-1	Vates Oltes
		Marshall, Robert   Mathaws, George	Yates City DuQuoin
ischer, George	Stampton	Mattern, Daniel	Spring Valley
isher, Patrick	Kangley	Matthews C	Marion
isher, rattick	ixangles	Watthews William G	Bartonville
		Matthews, C. Matthews, William G. Maurer, Edward.	Spring Valley
andy, James W	Peoria	Maxwell, Fred Melvin, T. M Milem, John	Peoria
lasford, Oliver	Orchard Mines	l Melvin, T. M.,	Tamaroa
andy, James W. Hasford, Oliver. Hasford, Philip Iraham, J. A. Iraham, Reuben	Williamsville	Milem, John	Spring Valley
raham, J. A	Nilwood	Miller, William	Streator
raham, Reuben	Virden	Morrison, Archie	
		Mumford, E. A	Kewanee
reaves, Allen	Nashville	Murray, James H	tranva
wiereen Jenn	Streeter		
reaves, Allen rey, David F rierson, Jonn rimshaw, Joseph	LaSalle	Neal Ambrose	Barclay
room, John	Belleville	Neil John H	Bunker Hill
	Dene i me i i i i i i i i i i i i i i i i i	Neal, Ambrose. Neil, John H. Neilson, J. W.	Sparta
		Nicholson, George A	Cuba
laas, Jacob	Millstadt	Noid, John E	Galva
lackett, Owen	Spaulding		
lagler, Charles	Fredonia	0 2 12	D ( ) 1
Iaas, Jacob Iackett, Owen. Iagler, Charles Iall, George R Ianson, William	Nilwood	Ogden, David	Kentenier
lanson, William	O Fallon	Ogden, Samuel	Mascoutan
Jarms, Heike Jarris, J. T.	Tenersourg	Olson, Aug	Kangley Streator
layes, John	Riverton	Osborne, Benjamin Ottinger, William	Catlin
Heaver F	Sandoval	Ottinger, winnam	Ottom II
Heaver, F. Hickox. Lee	Springfield		
lowe, Charles	Streator	Pankey, John M	Equality
		Peet, Charles	Marseilles
		Pendergast, James	Soperville
chman, Frank	Spring Valley	Phillips, William	Hallidayboro
sadore, Charles	Sparta	Picton, Joseph	Farmington
sadore, George		Picton, Thomas H	Worden
		Piper, Oliver	Lewistown
nakaan William	Minonly	Phillips, William Phillips, William Picton, Joseph Picton, Thomas H Piper, Oliver Prichard, H. C Prichett, T. M	Niantic
ackson, Williamacobs, John P	Orchard Vines	f fieliett, 1. M	NIGHTER
acobs. William	Murphysboro		
amison, John	Petersburg	Qualls, Nevel	Dubois
acobs, William amison, John effrey, William ohnson, Edgar W	Gilchrist	Qualls, Nevel Quick, A. T	Sato
ohnson, Edgar W	Marissa		
			111
ones, T. Audd, Thomas	Muncie	Raber, Louis Radford, James W. Radford, W. T. Rahaur, Michael	Caseyville
udd, Thomas	Cuba	Radford, James W	Cuba
	1	Radiord, W. T.	Power of
omor F	Hallidarlana	Podrowd John	Odin
arney, E elley, Martin	Tolnes	Redyard, John Reeise, William M	Roanoke
Cemner Christian	Belleville	Reid A. B. Jr	DuQuoin
ennedy, W. J	Edwardsville	Reid, A. B., Jr. Rennard, James E	Westville
emper, Christian. Lennedy, W. J. Ling, Alexander, Jr.	Carterville		
ing, John	**	Rice, B. F	Harrisburg
ling, John. lirby, Thos., Jr	Peru	Rice, B. F. Richmond, Edward B	Winchester
Claug, John	Galva	Rieger John C	Pinckneyville.
Maus, Louis	Beneville	Rieger. John C Riley, Michael Roach, Samuel	Tomoron
		Roach, Samuel	Sunfield
engren Ismes	Fairburg	Rogers, George	Braidwood
∠angran, James ∠arson, Charles L ∠athan, William H	Chalco	Rogers, George Rogers, Henry Rude, Edmond	DeSoto
athan William H	Hallidarboro	Raue, Edmond	Decoro
_ewes, Jacob H	Pottstown		
ewis, William	Wanlock	Sallade, George A	Chatham
form and A. A. Jane	A errance	Sanson, T. J	Carterville
alphert, Adolph			
Jippert, Adolph	Rentchler	Sawyers, Joseph	Coal City
Lippert, AdolphLloyd, BenjaminLove, WilliamLove, WilliamLumdberg, Eric	Rentchler Virden	Sallade, George A. Sanson, T. J. Sawyers, Joseph Schmacher, Charles Schramm, Charles	Marissa

# $Hoisting\ Engineers--Certificates\ of\ Service-- Concluded.$

Name.	Postoffice.	Name.	Postoffice.
Seeback, Joseph Sexton, LaFayette Seymour, A.J. Sheppard, W. C. Shurm, Fred Sorriels, D. H. Sowarby, Miles. Stoker, Edward Strick, William Stroud, William Struck, Carl Stuart, John	Dawson Fredonia Marquette Gardner Virginia Ashland Wilsville Bartonville Belleville Worden Springfield	Wallace, Harry G Warner, Andrew M. Waymire, James. Wertwood, Edward Wheatley, Rolley White, Henry Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Williams, Stephen P. Wood, Daniel A. Woodbright, D. A. Woomes, Joseph	Wenona Assumption Birkner DuQuoin Riverton Spaulding Wyoming Barclay INew Castle Colfax Centralia Birkner
Tanner, Henry Taylor, Benjamin Taylor, Willard W Tefft, Ernst. Telfer, John K Thome, Martin	Bartonville Tamaroa Girard Morris	Zeigler, John	. Iles Junction

### FIRE BOSSES HOLDING CERTIFICATES OF COMPETENCY

Note.—This and the following list include all the fire bosses to whom certificates were issued prior to January 1, 1900. The postoffice addresses here given are those recorded at the time the certificates were issued and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
Andrew, Thomas	Oglesby Coal City	James, Johann. Jenkins, T. C. Jennings, William.	Murphysboro
Barlow, Harry Bell, William. Bluefield, Charles Bowen, Gwilym Bullough, James Bundy, John	Streator	Jeten, T. F. Jones, Benjamin J. Jones, Morgan. Jones, Morgan. Johnson, David. Johnston, Samuel. Jordon, Robert.	CoffeenLitchfieldOglesby
Campbell, Jemes Cappin, Aaron	Wenona	Kloever, Matthew	
Castillo, Henry Chadderton, John Champley, James Clark, Joseph B. Craine, J. E., Jr. Cunningham, David.	Wenona Hornsby Murphysboro	Lawson, Thomas. Lettsom, William Lumaghi, Louis F. Lyons, Mark	Seneca Collinsville
Damrath, Frederick Davis, William Dodge, H. N	Virden Streator East Peoria	McCranor, James	Oglesby
Doonier, P. J	Mt. Olive	McKillop, Donald	Danville Belleville Salem
English, Thomas Farrand, Walter		Miller, Alexander Miller, G. W. Morgan, E. T. Morgan, Joseph Morris, John H	Pawnee Georgetown Streator
Galbraith, Patrick	Assumption Gardner Staunton	Moss, Thomas. Muentrich, J. Muir, Andrew. Murphy, John	Staunton Springfield
Grabsuck, Emile. Graham, L. A Gray, Henry Green, J. W	Bloomington	Nichols, Eli W. Nixon, Robert. Nordner, C. K.	Streator
Haddow, Thomas	Auburn	Olroyd, Peter W Opp, Sherman W	Westville Sandoval
Haun, George. Henley, J. H Holden, Andrew. Hopkins, Reese. Howells, George.	Litchfield Odin Coal City Litchfield Staunton	Payne, Emanuel. Peart, John. Phillips, Benjamin Pick, Edward Prince, Thomas. Prudent, Edward	Braidwood Kangley Central City Mt. Olive

### Fire Bosses--Certificates of Competency--Concluded.

Name.	Postoffice.	Name.	Postoffice.
Quinn, Bernard	Bloomington	Smith, James Spires, Alfred. Steel, Daniel	Braceville
Raab, Rudolph		Steel, Neal	Centralia
Rae, Robert	Carbon Hill	Stearns, James	Hallidayboro
Rankin, Thos. A Reinnison, Henry Reynolds, John Rhodes, D. R. Rhodes, J. L.	St. Johns Streator Pana	Thom, John Thomas John R.	Coal City
Ritson, Hugh Ryder, James H	Farmington	Vit. Charles	
Schmid, Conrad			
Secor, T. D Siddall, John W Siddell, James Smith, George A Smith, Henry	Streator Streator	Whalen, Michael Whitecamper, Louis Williams, William E Wilson, Henry Winterbottom, John	Lincoln Streator Pana

#### FIRE BOSSES HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.	
Arnold, Stephen	Kangley	Kortkamp, Carl Kortkamp, Lewis	Hillsboro	
Bagshaw, George W Blakeman, George Borg, Frank	Streator	Lewis, Edward	Ladd	
Boulton, Henry Bough, William Brooks, Peter	Dawson	McDonald, M. E	LaSalle	
Brown, John		Moffet, Edward A	Gardner	
Franzen, Mat	Girard	Ross, S. H	Girard	
Gray, William Griffin. John	Streator Niantic	Schmidt, Ernest Schultz, John Shaw, Francis M	Diamond	
Hall, John Herbert Hoesfield, Aaron Hornanor, Paul Hughes, John	Oglesby Lincoln	Shopman, John Siebenhawer, Wm Solufskie, Hermann Stewart, Samuel	LaSalle Decatur	
Humphreys, William  Jenkins, Rutland	Clark City	Taylor, Samuel Thomas, David	O'Fallon Canton.	
Kneper, David	Girard	Wilson, Archie	Gardner	

#### MINE EXAMINERS.

Note.—The revised mining law of 1899 changed the title or name "Fire Boss" to that of of "Mine Examiner," and provided that those holding certificates as Fire Boss could exchange the same for that of Mine Examiner. The names which are followed by the abbreviation "ex" have made such exchange.

Name.	Postoffice.	Name.	Postoffice.
Andrew, Thomas	Kangley Oglesby	Kloever, Matthew, ex Knapp, Charles Kramer, Frederick	Seatonville
Baker, Sharrd Barlow, Harry, ex Baugh, William Blakemore, George Blenkinsopp, Thomas Jr	Gillespie Lake Creek Dawson Streator	Lawson. Thomas, ex Lloyd, Rowland R	Lake Creek Barclay
		Maggs, Jacob, ex	Breese
Booth, Enoch Borg, Frank. Brennan, Patrick. Brown, Archibald. Brooks, Peter.	Toluca Streator Taylorville	Monghan, T. P.  Morgan, E. T. ex.  Mnentrick, John, ex.  McGarrity, John	Springfield Georgetown Staunton
Carr, J. W Case, William Casey, John	Odin Diamond	McKenzie, Alex. C McLaughlin, John P	Canton
Campbell, Robert Cawley, William Champley James ex	DuQuoin	Noll. Charles	Springfield
Connolly, Terrance J Cook, Elijah Cook, Thomas Costello, Henry, ex	Assumption Wanlock Belleville	Olroyd. Peter W., ex Opp, Sherman W. ex Owens, Evan	Canton
Daey, William Davis, George Davis, Thomas Davis, William	Springfield	Payne, Emanuel, ex Phillips, Benjamin, ex Potter, Edward	Sandoval
Davis, William Dowell, W. C	Streator Centralia	Rankin, Thos. A., ex Ready, Thos Reynolds, Andrew	Litchfield Springfield
Edmunds, Morgan, ex		Reynolds, John, ex Roberts, Evan Robbins, Aaron	Streator Danville
Farmer, James Felton, Harry	Marrissa Petersburg	Scattergood, John Scott, Wm. J.	
Gastenecker, William Ghebandy, Honore Gray, Henry, ex Gray, William Gregor. Charles	Westville Athens Streator Springfield	Scoby, Ray, Shaw, Henry, Siddall, Edward, Siddall, John W., ex, Smith, Harry, Smith, William,	Gilabriet
Griffiths, Evan	Belleville	Smith, William Spires, Alfred Stirrat, James Stoneburner, L. L., ex	Canton
Hart, Chas. J. Hayden, G. S. Hopkins, Reese, ex. Howells, George, ex.	Wenona Litchfield	Thom, JohnThorunt, Joseph, srTompkins, Frank	Coal City Trenton St. David
Jones, Ben. J., ex	Coffeen	Ward, John G Wendler, Adelbert Wilson, Henry, ex	Glen Carbon
Kepper, William	Peru		

Statement of the Reports of the State Inspectors of Mines of the Inspection of Mines, the Amount of Fees Charged and Paid, for the year ended June 1, 1899.

#### FIRST DISTRICT.

Date of Inspection.	Name of Firm, Company or Person Operating Mine.	Location of Mine.	Number of men employed. Inspection fee charged.	Inspection fee paid.
Oct. 4.1888 April 6.1899 April 6.1899 April 6.1899 Sept. 22.1898 Dec. 11.1899 Dec. 11.1899 Mar. 13.1899 July 25.1898 Oct. 22.1898 May 1.1810 May 23.1898 May 1.1810 Dec. 21.1899 May 1.1810 Dec. 21.1899 May 1.1810 Dec. 21.1899 April 21.1899 April 21.1899 April 21.1899 April 21.1899 April 21.1899 Aug. 8.1888 Dec. 21.1898 April 21.1899 Aug. 8.1888 Dec. 21.1898 April 21.1899 Aug. 8.1888 Oct. 21.1898 Dec. 21.1898 Dec. 21.1898 Dec. 21.1898 Dec. 21.1899 Aug. 8.1888 Oct. 21.1898 Dec. 21.1898 Dec. 21.1898 Dec. 21.1899 Dec. 21.1898 Dec. 21.189	Coöperative Coal Co  Coöperative Coal Co  Chicago, Will. & V. Coal Co. No. 2  No. 1  No. 1  No. 2  No. 2  No. 1  No. 2  No. 2  No. 2  No. 2  No. 2  No. 2  No. 2  No. 2	Streator.  Braceville  Streator.  Peru  Braidwood.  Fairbury.  Streator.	97 \$8.00   152   10.00   154   145   8.00   145   8.00   145   8.00   145   8.00   145   8.00   145   8.00   145   8.00   145   8.00   1555   10.00   1555   10.00   15560   10.00   10.00   12.00   10.00   12.00   10.00   150   10.00   150   10.00   150   10.00   150   10.00   150   10.00   150   10.00   150   10.00   150   10.00   150   10.00   150   1	824
Jan. 26, 1899 Feb. 8, 1899 Mar. 9, 1899 April 10, 1899 April 21, 1899 May 22, 1899 Aug. 8, 1898 Oct. 11, 1898 Jan. 9, 1899 April 19, 1899 Dec. 19, 1899	No. 1 No. 1 No. 2 No. 2 No. 1 No. 2 No. 1 Diamond Coöperative Coal Co Darm, C. G Dawson, J. C. & Co	Heenanville Streator Pontiac Streator Deer Park	FA 10 00 450 10 00 FA	

### First District, Statement—Continued.

			men.	fee	fee
Date of Inspection.	Name of Firm, Company or Person Operating Mine.	Location of Mine.	Number of a employed.	Inspection charged.	Inspection paid.
Det. 21,1895	Dewey Coal Co. Edwards, Thomas	Streator	12	\$6.00	
lan. 14, 1899	Edmanda Mianus		11	6 00	
			- 7	6.00	
Feb. 1,1899			5	6.00	
Aug. 15, 1898 Nov. 28, 1898	Espley, J. T.	Morris	12	6 00	
Feb. 20, 1899	**		15.		
May 24, 1899	Evans, R. Jr. and Bro		13	6 00	
July 25,1898 Det. 31,1898	Evans, R. Jr. and Bro	Streator	15 22	6 00	
eb. 1,1899			6	S 00	
			14	6 00	
May 24,1899 July 26,1898	Fleming, Thos. & Co Gardner & Wil, Coal Co	Morris	19	6 00	
Aug. 1,1898	dardiger & Wil. Coar Co	Clarke City	190	10 00	
ret. 5, 1898		Uraruner	22	6 00	
Nov. 15, 1898 Jan. 30, 1899		Clarke City Gardner	215 52		
Iar. 20, 1899		Clarke City	250	10 00	
April 21, 1899			29	6 00	
lay 31, 1899	Gilbride, Frank	Clarke City	155	6 00	
Aug. 15, 1898 Nov. 28, 1898	Gilbride, Frank	Morris	9	6 00	
			11	6 00	
lay 24,1899 uly 11,1898	Hakes, E	Dusland	164	6 00	
Det. 14,1898		nuciana	170	10 00	
an. 12, 1899	**	::	175	10 00	
April 17, 1899 July 15, 1898	Howe Wm Coal Co		176 60	10 00	
et. 6,1898	Howe, Wm. Coal Co	Streator	68	8 00	
			78	8 00	
April 5, 1899 Nov. 29, 1898	Heathen, James	Morris	60 7	8 00	
reb. 20,1899			9	6 00	
for 95 1900i			9	6 00	
Nov. 29, 1898 Peb. 21, 1899	Howe, M. C Kilburn, Joseph		7	6.00	
lug. 3,1898	Kilburn, Joseph	Streator	13	6 00	
uly 25, 1898	Kimes, Oscar Kimes, R. S Kay, Harry		8	6 00	
Oct. 31,1898 Feb. 1,1899	Kimes, R. S		7	6 00	
eb. 20,1899	Kay, Harry	Morris	6	6 00	
lay 24, 1899	Laborty William		8	6 00	
Aug. 15, 1898 Nov. 28, 1898	Laherty, William Laherty, William & Bro Laherty, William LaSalle Co. Carbon Coal Co. LaSalle—		11	6 00	
eb. 20,1899	Laherty, William	**	10	6 00	
uly 20, 1898	Union mine	LaSalle	190	10.00	
uly 21, 1898	Rockwell mine	4.1	115		
Aug. 24, 1898	LaSalle mine. LaSalle Co. Carbon Coal Co., No. 1		257	10 00	
Aug. 25, 1898 Nov. 18, 1898	LaSalle Co. Carbon Coal Co., No. 1 LaSalle		271 258		
NOV. 11.1898	Union	LaSalle	245	10 00	
Nov. 14, 1898	Rockwell		170	10 00	
Dec. 20, 1898 an. 25, 1899	LaSalle		280 F A	10 00	
eb. 10, 1899 eb. 14, 1899	No. 1. Rockwell Union		244	10 00	
	Union		314	10 00	
Feb. 27, 1899 dar. 16, 1899	LaSalle	::	276 275	10 00 10 00	
lay 2,1899	Union		225	10 00	
Iay 8,1899	LaSalle Rockwell	***	270	10 00	
lay 16,1899 June 1,1899			155 250	10 00	
Oct. 29, 1898	Love & Sons	Wilsman	6	6 00	
eb. 6.1899 uly 18,1898	Love & Sons. Maltby, William.	D133	6	6 00	
uly 18,1898	Maitoy, William	Braidwood	11	6 00 8 00	
Oct. 24, 1898	**		100		

# First District, Statement.—Continued.

			men.	fee	fee
Date of Inspection	Name of Firm, Company or Person Operating Mine.	Location of Mine.	Number of employed.	Inspection charged.	Inspection paid.
April 24, 1899	Maltby, William M. & H. Zinc Co  Marseilles L. & W. P. Co	Braidwood	54 70	\$8 00	699
uly 13,1898 Oct. 27,1808	M. & H. Zine Co	LaSaile	70	8 00 8 00	\$32
an. 23,1899			70 70	8 00 8 00	
12, 1898 12, 1898	Marseilles L. & W. P. Co	Marseilles	23	6 00	
an. 17,1899 pril 25,1899			28 34	6 00 6 00	
pril 24, 1899	Murphy, John, & Co Nelson & Westerland	Braidwood	14	6 00	
uly 28,1898 ct. 22,1898	Nelson & Westerland	Streator	6	6 00 6 00	
eb. 2,1899		**	6	6 00	
une 15,1899	Oglesby Coal Co.	Orloche	236	6 00 10 00	
ov. 21, 1898	Oglesby Coal Co	Ogiesos	231	10 00	
ov. 21,1898 eb. 23,1899	4.5		240 234	10 00 10 00	
pril 15,1899 ily 6,1898	Otter Creek Coal Co Pontiac Coal Co	Streator	41	6 00	
aly 8,1898	Pontiac Coal Co	Pontiac	98 80	8 00 8 00	
ct. 11,1898 an. 9,1899	**	**		8 00	
pril 19,1899 ct. 21,1898	Di C1 C-	Stungton	130	8 00 6 00	
ec. 17,1898	Pouk, A. W., & Co	Streator	11	6 00	
eb. 4,1899	Data 6 Tana	**	15 10	6 00	
eb. 2,1899 pril <b>#26</b> ,1899	Frice & Jones		10	6 00	
ct 12, 1898	Roberts & Francis	::	8	6 00 6 00	
an. 14,1899 an. 16,1899	Roberts, Benjamin D		17	6 00	
ug. 26,1898 ov. 23,1898	Piney Coal Co. Pouk, A. W., & Co. Price & Jones. Roberts & Francis. Roberti, Daniel Roberts, Benjamin D. Standard Coal Co.	Scneca	11 28	6 00 6 00	
ay 17, 1898	**	4	25	6 00	
ine 16,1899	St Ca-1 Ca No. 1	Stuaston	21 91	6 00 8 00	
uly 22,1898 ug. 4,1898	No. 2	Streator Kangley	1 242	10 00	
ept. 19,1899	Star Coal Co., No. 1	Carbon Hill	274 415	10 00 10 00	
ept, 20, 1898 ept. 27, 1898 ct. 10, 1898	" No. 2		IF A	10 00	
ct. 10, 1898 ct. 13, 1898	No. 1 No. 2	Spring Hill Kangley	81 196	8 00 10 00	
ec. 2,1898	No 9		415	10 00	
ec. 10.1898 an. 7,1899	No. 3. No. 1. No. 2.	Spring Hill	250 100	10 00 8 00	
an. 18,1899	No. 2	Spring Hill Carbon Hill	FA	10 00	
an. 24,1899 eb. 16,1899	No 2	Streator	210 254	10 00 10 00	
eb. 18,1899	No. 3. No. 2.	Caroon IIII	470	10 00	
ar. 10,1899 pril 7,1899	No. 1		110	8 00 8 00	
	1 11 NT - 0	17	170	10 00	
ay 9,1899 ay 10,1899	No. 3 No. 2 No. 1 Streator Clay Mfg Co	Carbon Hill	235 415	10 00 10 00	
ay 19,1899	'' No. 1		150	10 00	
ıly 16,1898 ct. 8,1898	Streator Clay Mfg Co	Streator	21 22	6 00	
ar. 25,1899		::	21	6 00	
an. 9,1899 ct. 3,1898	Schultz, Fred	Braceville	21 6	6 00	
an. 29.1899	Schultz, Fred Sowerby, Thos., & Co Tasdall Bros. Telfer, A. W., & Son	C.	ĬŽ	6 00	
pril 26,1899 ug. 15,1898	Sowerby, Thos., & Co	Streator Nettle Creek	8 6	6 00 6 00	
eb. 21,1899	m 16. A 317 0 G	Manuala	6	6 00	
ug. 16,1898 ov. 29,1898	Telfer, A. W., & Son	Morris	6	6 00	
eb. 21,1899			7	6 00	
lay 24,1899 lay 1,1899	Thomas, William, & Co	Streator	7 6 8 6	6 00 6 00	
ct. 22, 1898	Thomas, William, & Co Thorne, D. W Tisler, G. H. Treasure, William		6	6 00	
lec. 28, 1898 lov. 16, 1898	Tisler, G. H	Ottawa	6	6 00	

### First District, Statement.—Concluded.

Date of Inspection.	Name of Firm, Person or Company Operating Mine.	Location of Mine.	Number of men employed.	Inspection fee charged. Inspection fee paid.
Nov. 1,1898 Feb. 7,1899 May 5,1899 Sept. 23,1809 Dec. 12,1809 Mar. 9,1899 May 26,1809 Sept. 21,1898 Dec. 5,1809 Mar. 7,1808	Wilmington Big Four Coal Co	Fairbury Coal City Diamond	33 36 42 34 428 450 550 461 600 600	86 00
May 17, 1898 Sept. 21, 1898 Nov. 3, 1898 Jan. 19, 1898 April 20, 1888 Nov. 28, 1898 Feb. 20, 1898 Hay 24, 1898 Feb. 2, 1898	Wilmington Star Coal Co	Coal City  Morris  Streator	500 115 120 150 155 6 7 6 8	10 00 \$ 00 \$ 00 10 00 10 00 6 00 6 00 6 00

### SECOND DISTRICT.

Aug. 24,1898 Alden Coal Co	Wanlock	140	88 00. 850 00
Aug. 24, 1898 Alden Coal Co Nov. 29, 1898	William Ch	135	5 00
Mar. 7, 1899		140	5 00
Feb. 17, 1898 Armentront, M		8	6 00
Jan 23 1899 Atkinson Wather	Kewanee	- 7	6 00
Oct. 15, 1898 Bates Bros	Hendinec	9	6 00
Oct. 15, 1898 Bates Bros May 2, 1899 Nov. 18, 1898 Beharelle & Co. A		7	6 00
Nov. 18,1898 Beharelle & Co. A	Orchard Mines	6	6 00 12 00
Jan. 17, 1899	Orchard Mines	16	6 00
May 19, 1899	Mapleton	16	6 00
Feb. 10, 1899 Ball Coal Co	Bartonville	15	6 00
Jan. 7, 1899 Bartonville Coal Co	Dartonvine	16	6 00
		16	6 00
May 23, 1899. Feb. 6, 1899 Brandt, Wm June 15, 1899 Black Diamond Coal Coal Co	Minowel	10	6 00
June 15, 1899 Black Diamond Coal Coal Co	Clast Valler	6	6 00
Aug. 19,1898 Camp Creek Coal Co	Cable	14	
July 7,18/9 Coal Valley M. Co. No. 2.	Sherrard		6 00
Mar. 12.1899 No. 2	Sherrard	160	
		230	10 00
	Cable	185	10 00 8 00
	Caple	135	
Dec. 22, 1898 No. 1		100	8 00
Mar. 14, 1899 No. 1		85	S 00
June 13, 1899 No. 1	1	85	8 00
Oct. 7, 1898 Chi., W. & V. Coal Co	Seatonville	360	10 00
Jan. 10, 1899		400	10 00
April 28, 1899		350	10 00
Nov. 3,1898 Collier Coal Co	Bartonville	30	6 00 18 00
Feb. 10, 1899 Collier Coop. Coal Co	1	25	6 00
May 12, 1899		30-	6 00
Nov. 4,1898 Cusack, M		6	6 00
Feb. 2, 1899 Cutler, F. H	Princeville	10	6 00
Nov. 11, 1898 Devlin Coal Co	Toluca	450	10 00
Nov. 25,1898		450	10 00
Jan. 2,1899		450	10 00
		450	10 00
July 15, 1898 Empire Coal Co.	Gilchrist	125	8 00. 32 00
Nov. 25, 1895		120	8 00
Mar. 11, 1899		100	8 00
Sept. 7,1898 Elmwood Coal Co	Elmwood	125	8 00
Nov. 14,1898		115	8 00
Feb. 16,1899		145	S 001

### Second District, Statement—Continued.

			men.	fee	fee
Date of Inspection.	Name of Firm, Company or Person Opeaating Mine.	Location of Mine.	Number of a employed.	Inspection charged.	Inspection paid.
eb. 24, 1899	Eimwood Coal Co. Fleming J. J Foley, W. E. Fairlie James Grant, Peter, Jr.	Elmwood	\$145 110	\$8 00	
Iay 22, 1899 Oct. 15, 1898	Fleming, J. J	Kewanee	10	6 00	
eb. 18,1898 ec. 9,1898	Foley W E	Mapleton	18 30		
Iay 4,1899	roley, w. E		0	6 00	
an. 3,1899 ept. 17,1898	Fairlie, James	Cambridge Peoria	12 30	6 00	12
Vov. 17, 1898 Iar. 10, 1899	Grand, I eter, bit	1 corra	90	6 00	
Iar. 10, 1899 Jov. 15, 1898	German Coöp. Coal Co Hayes Coal Co Henry, Philip Howling Coal Co. No. 12	Orchard Mines	35	6 00	
Iay 9,1899	German Coop, Coar Co		18	6 00	
ug. 18.1898 Jov. 7,1898	Hayes Coal Co	Muscatine, Ia	6 30	6 00	
Iay 1,1899	neary, rump	Kewanee	12	6 00	
ept. 6,1898 ec. 24,1898	Herdien Coal Co. No. 12	Galva	12 60		
eb. 15,1899	Herdien Coal Co. No. 12. No. 14. No. 12. No. 12. No. 14. No. 12.	Galva Kewanee Galva	26		
Iar. 27,1899	No. 14		45	6 00	
		Wyoming	10	6 00	
an. 19,1899	Highee & Robinson Howarth & Taylor		10	6 00 6 00	
et. 28,1898 eb. 25,1899	Howarth & Taylor	Edwards	12 20	6 00	
		F - 32	20	6 00	
pril 20, 1899 pril 20, 1899	Jamieson & Allison	Loding	6	6 00	
ept. 8,1898	Hynd, John Jamieson & Allison Kramm, C. B	Edwards	10	6 00	
ec. 1,1898 eb. 24,1899			14 30	6 00 6 00	
Iay 10,1899	****		38	6 00	
ov. 7,1898 Iay 1,1899	Kirby, Bernard	Kewanee	16	6 00	
an. 7,1899	Keller & Son, George	Bartonville	16		
ec. 22,1898 an. 23,1899	Lillman Bros	Cable Kewanee	12	6 00 6 00	6
ept. 22, 1898	Marquette Coal Co	Marquette	260	10 00	
Oct. 5, 1898 Occ. 13, 1898	Kirby, Bernard  Keller & Son, George Lilliman Bros Lyle, W. H Marquette Coal Co	Sparland Marquette	40 315	10 00	
			250	10 00	
an. 20,1899 pril 7,1899	•••	Sparland	60 40	6 00	
ept. 20, 1898	Minonk C. & T. Co.	Minonk	260	10 00	
ov. 9,1898 ov. 20,1898			275 275	10 00	
Iar. 24, 1899	**	**	275	10 00	
prii 25, 1899 ec. 24, 1898	Minonk Coal Co		270	10 00 6 00	
eb. 7,1899	Murray, J. H	Galva	20	6 00	12
ept. 12,1898 ept. 6,1898	McKane & Reed Murray, J. H McFall & Tucker	Mineral	14 10	6 00 6 00	
ept. 9,1695	Newsam Bros	Peoria	120	8 00	
ept. 15,1898 ept. 16,1898			55 45		
ov. 17, 1898	**	**	55	8 00	
ec. 20,1898 an. 9,1899	**	::	140 135		
a11. 18.1899	**		45	6 00	
eb. 3,1899 eb. 10,1899		1 ::	55 135	8 00 8 00	
eb. 28,1898		::	40	6 00	
pril 15, 1899 pril 17, 1899			115 35		
1ay 13, 1899			40	6 00	
an. 17,1899	Price J J	Mapleton	8		
ept. 10, 1898	Potter & Son, L. Pryce, J. J. Reid City C. & M. Co Royster & Zeigler.	Mapleton Coal Valley Wolcott.	45	6 00	
ec 9,1898			75 60	8 00 8 00	
for 16 1900					

### Second District, Statement—Concluded.

Date of Inspection.	Name of Firm, Company or Person Operating Mine.	Lotation of Mine.	Number of men	Inspection fee charged.	Inspection fee paid.
Mar. 10, 188 Peb. 27, 184 May 23, 183 Dec. 16, 180 May 24, 183 Dec. 16, 180 May 24, 183 Mar. 29, 186 May 24, 183 May 24, 183 May 24, 183 May 25, 186 May 26, 186 May 36, 186 May 11, 189 May 11, 189 May 11, 189 May 11, 189 May 14, 186 May 15, 186 May 15, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 16, 186 May 17, 186 May 18, 188 May 16, 186 May 16, 186 May 16, 186	Reents, Geibold  Roanoke M. Co  Riley, Silas W. Schmidt & Sons  Spring Valley Coal Co.  No. 2  No. 1  Sheffler, R. D. Sholl James Sholl Bros., No. 3.  No. 1  No. 1  Stivis & Silvis Sheffled M. Co. Stoddard & Summerson Summerson, John Vicary Bros.  Wantling & Son	Roanoke Neponset Peoria	300 300 122 144 122000 8 111 702 2500 4500 5500 5500 5500 665 25 25 25 25 20 20 30 30 70 70 75 75 9	\$6 000 \$ 000	
May 5, 1839 Oct. 4, 1898 Feb. 1, 1839 May 31, 1899 Oct. 8, 1898 Jan. 11, 1899 May 16, 1839 Dec. 5, 1898 Nov. 3, 1898 June 3, 1830	Wenona Coal Co	Wenona Ladd Sheffield Peoria	7 160 200 130 350 375 375 6 45 45 45 12	6 00 10 00 8 00 10 00 10 00 10 00 10 00 6 00 6 00 6	

### THIRD DISTRICT.

July 21, 1898 Astoria C. & M. Co Astoria	55.	
Nov. 19, 1898	80	8 00
Jany, 19, 1899	94	8 00
April 18, 1899	75	8 00:
Nov. 19, 1898 Jany. 19, 1899 April 18, 1899 Oct. 17, 1898 Aldgren, E. E. Galesburg.	10	6 00
Dec. 14, 1898 Anderson, N. A	14	6 06
Mar. 20, 1899	12	6 00
Ang. 30, 1898 Bath, Isaac Lewistown	7	6 00
Oct. 12, 1898 Back & Co., Thos	28	6 00
Jany. 10, 1899	32	6 00

# Third District, Statement—Continued.

Date of Inspection.				Name of Firm, Company or Person Location of Mine.  Operating Mine.		Number of men employed.	Inspection fee charged.	Inspection fee paid.
July Oct.	7, 1898 10, 1898	Canton Coal Co.	Canton	19	\$6 00			
Jan.	11, 1899			19 35	6 00			
Apr.	19, 1899	g '' m '' 6.8	**	32	6 00			
July Oct.	7, 1898 4, 1898	Canton Union C. Co		18 30	6 00 6 00			
Jan.	9 1899			53	8 00			
Apr. Sept.	7, 1899	Canton Union C. Co  Cline & Shaw  Colchester C. & M. Co.	Fintt	42				
Dec.	12, 1898	Ciffie & Shaw	Fiatt	15 25	6 00 6 00			
Feb.	24, 1899	** ** *********************************	**	22				
May July	9, 1899 7 1898	Colabestor C & W Co	Galesburg	16 60	6 00 8 00			
Oct	18, 1898	Colchester C. a. M. Co	Colchester	60	8 60			
Jan.	18, 1899			50	8 00			
Apr. Dec.	16, 1898	Clifford Geo	Oneida	55 12	6 00			
	7,1898	Clifford, Geo Cook & Gilmore Corsepins. G. W Dudley, Z. F. Egerton Coal Co Egerton Bros. Essex. Geo. W Farmington Coal Co.	Alexis	9	6 00			
Mar. Dec.	14,1899	Companing C W	Calcabana	10	6 00			
Feb.	21, 1899	Corsepius, G. W	Galesourg	10	6 00			
Nov.	29, 1898	Dudley, Z. F	Knoxville	9	6 00			
July Apr.	11, 1898	Egerton Coal Co	Colchester	45 25	6 00			
Aug.	8,1898	Essex, Geo. W.	Soperville	20	6 00			
Dec.	2, 1898			30	6 00			
Feb. May	15, 1899			14 10	6 00 6 00			
July	11,1898	Farmington Coal Co.	Farmington	70	8 00			
Oct.	11. 1898			58	8 00			
Jan. May	11, 1899	**		52 80	S 00 S 00			
July	11,1898	Findley Coal & Coke Co	**	17	6 00			
Oct. Jan.								
May	3,1899	**		30	6.00			
	31, 1899	Howat Bros	Canton	9	6 00			
July Feb.	6 1899	Jarvis, T. H	Astoria	25	6 00 6 00			
Apr.	17, 1899	Jaivis Coar Co		32	6 00			
Dec.	14, 1898	Jacobson & Son., J	Wataga	-8	6 00			
Ang.	14 1898	Kerr, W. M	Rushville	25	6 00 6 00			
Feb.	7, 1899		**	11	6 00			
May	19, 1899		**	7	6 00			
Aug.	16, 1898	raws, J. M	Cupa	30	6 00			
Feb.	23, 1899	**	**	38	6 00			
Apr. Aug.	24, 1899	r 6 Trian	T	30	6 00			
Nov.	4, 1898	Lowery & Kinnoman	Lewistown	5	6 00			
July	27, 1898	Mechan, P. H	Breeds	25	6 00			
Oct. Feb.	31, 1898			24 25	6 00			
July	15, 1898	Meredith Bros	Augusta	9				
Oct.	19, 1898			23	6 00			
Jan. Apr.	19, 1899	Howat Bros. Jarvis, T. H. Jarvis, Coal Co. Jacobson & Son., J. Kerr, W. M.  Laws, J. M.  Lowery & Kinnoman Mechan, P. H.  Meredith Bros.		20 24	6 00			
Nov.	25, 1898	Maplewood C. Co Murphy & Redmond McCartney, C. F McGovern Jas Nappin, David	Farmington	38	6 00			
Jan.	23, 1899	Manuel D. A	M	57				
Dec. Mar.	0,1898	marking & Regimond	Monmouth	8	6 00 6 00			
Dec.	8, 1898	McCartney, C. F	Alexis	10	6 00			
Mar. June	15,1899			9	6 00			
Dec.	15, 1898	McGovern.Jas	Oneida	10				
Sept	. 23, 1898	Nappin, David	Farmington	9	6 00			
Nov. Mar.	25, 1898 8, 1899	: :: :: :: :: : : : : : : : : : : : : :	::	10	6 00 6 00			
May.	2,1899			8				
Apr.		Norris Coal Co	Norris	23	6 00			

### Third District, Statement—Concluded.

June 14, 1899   Newsam Bros.   Farmington   60     Nov. 2, 1889   Parcell, Thos   Canton   9     Jan. 5, 1898   Parcell, Thos   Canton   9     July 13, 1898   Roys & Woodward   Soperville   9     July 13, 1898   Rundle & Rippletoe   Colchester   20     Oct. 18, 1898   Soperville   70     Apr. 11, 1896   70     Apr. 11, 1896   70     Apr. 11, 1897   70     Apr. 21, 1898   Reed & Pendergast   Soperville   15     Feb. 21, 1898   14     May 16, 1899   14     May 16, 1899   15     July 30, 1888 Sunday Creek C.Co   Middle Grove   52     Oct. 25, 1898   52     Apr. 26, 1898   52     Apr. 26, 1898   52     Apr. 26, 1898   70     Aug. 1, 1898   Taylor, James   Alexis   7     May 22, 1899   7     May 24, 1899   7     May	\$5 00 6 00 6 00 6 00 6 00 6 00 6 00 6 00
Nov. 2, 1889   Parcell, Thos.   Canton.   9     Jan. 5, 1898   Parcell, Thos.   Canton.   9     July. 13, 1888   Rundle & Rippletoe.   Colchester.   20     Oct. 18, 1888   Rundle & Rippletoe.   Colchester.   20     July. 13, 1888   Rundle & Rippletoe.   Colchester.   25     Jan. 17, 1890   70     Apr. 11, 1890   70     Apr. 11, 1890   14     Apr. 21, 1890   14     May 16, 1899   14     May 16, 1899   15     Soperville.   15     Feb. 21, 1890   14     May 16, 1899   15     Soperville.   16     Soperville.   17     Soperville.   18     Soperville.	6 00 6 00 6 00 5 00 5 00 5 00 5 00 5 00
Jan.       5, 1888       Ross & Woodward       Soperville       9         July       13, 1888       Rundle & Rippletoe       20         July       13, 1888       Rundle & Rippletoe       25         John       1, 1889       70         Apr. 11, 1889       70       70         Dec.       1, 1889       14         May       16, 1896       14         May       16, 1896       14         May       16, 1896       8         July       30, 1888       8         Jan.       30, 1898       52         Apr.       26, 1888       22         Dec.       7, 1888       70         Dec.       7, 1888       70         June       22, 1889       8         June       22, 1889       8         Aug.       18, 1888       70         June       21, 1888       70         Aug.       18, 1888       70         Aug.       18, 1888       70         Aug.       18, 1888       70         Aug.       18, 1888       70         Aug.       18, 1888       70         Aug.       18, 1888	6 00 6 00 5 00 5 00 6 00 6 00 6 00 8 00
July     13, 1888 km dle & Rippletoe     Colchester     20       Oot.     18, 1888     55       Jan     17, 1889     70       Apr.     11, 1889     70       Dec.     1, 1888 Red & Pendergast     Soperville     15       Feb.     21, 1888 Sunday Creek C. Co     Middle Grove     32       July     30, 1898     92       Apr.     26, 1898     22       Apr.     26, 1898     70       Dec.     7, 1848 Simcox     John     Alexis     7       Mar.     14, 1899     5       June     22, 1889     6       Aug.     9, 1898 Taylor     James     Wataga     6       Aug.     19, 1898 Taylor     4 Peck     Cuba     25       Feb.     15, 1899     No.     35       Feb.     15, 1899     No.     32       May     22, 1890     No.     32       May     22, 1890     No.     32       May     22, 1890     No.     32	\$ 00 \$ 00 \$ 00 6 00 6 00 8 00 8 00 8 00 8 00
Oct.   18,1889	8 00 8 00 6 00 6 00 8 00 8 00 8 00 8 00
Apr. 11, 1898     70       Dec. 1, 1888     1888 Reed & Pendergast     50       Feb. 21, 1899     14       May 16, 1899     8       July 30, 1838 Sunday Creek C. Co     Middle Grove     52       Oct. 25, 1898     65       Jan. 30, 1898     82       Apr. 26, 1898     82       Dec. 7, 1898 Simox, John     Alexis     7       Mar. 14, 1899     8       June 22, 1899     6       Aug. 9, 1898 Taylor, James     Wataga     6       Aug. 19, 1898 Taylor & Peck     Cuba     25       Feb. 15, 1899     No. 1     35       Hay 22, 1899     No. 1     21       May 22, 1890     No. 1     22	8 00 6 00 6 00 6 00 8 00 8 00 8 00 8 00
Dec.   1,188 Reed & Pendergast   5   15   15   15   15   15   15   16,1899     16,1899     17   18   16,1899     18   18   18   18   18   18   1	6 00 6 00 8 00 5 00 8 00 8 00
1.189	6 00 8 00 5 00 8 00 5 00
July     30,1888 Sunday Creek C. Co     Middle Grove     52       Oct     25,1889     65       Jan     30,1898     82       Apr     26,1888     70       Dee     7,1898 Sincox     John     Alexis     7       Mar     14,1899     8     5       June     22,1899     6     6       Aug     19,1898 Taylor     Jane     25       Ave     17,1898 Sincox     Cuba     25       No.     17,1898     Cuba     25       Feb     15,1899     No.     30       May     22,1899     No.     32       May     22,1899     No.     32       May     22,1899     No.     32	\$ 00 5 00 8 00 5 00
Oct. 25, IS85	S 00 S 00
Apr. 26, 1898         70           Dec. 7, 1898 Simcox, John         Alexis         7           Mar. 41, 1899         5           June 22, 1898         6         6           Aug. 9, 1898 Taylor, James         Wataga         6           Aug. 19, 1898 Taylor, James         Cuba         25           Nov. 17, 1898         33           Feb. 1899         No. 1         33           May 22, 1899         No. 1         22           May 22, 1899         No. 1         22	5 00
Dec.     7,188 Simcox, John     Alexis     7       Mar.     14,1890     5     5       June     22,1899     6     6       Aug.     9,1898 Taylor, James     Wataga     6       Aug.     19,1898 Taylor & Peck     Cuba     25       Nov.     17,1898     33       Feb.     15,1899     No.     35       May     22,1899     No.     21       May     22,1899     No.     21	
June 22, 1896	6 00
Aug. 9, ISS Taylor, James.     Wataga.     6       Aug. 19, ISS Taylor & Peck.     Cuba.     25       Nov. 17, ISS     Sol.     33       Feb. 15, ISS9     No.     35       May 22, ISS9     No.     24       Feb. 25, 1899     No.     24       Feb. 26, 1899     No.     24       Feb. 27, 1899     No.     24       Feb. 28, 1899     No.     24       Feb. 28, 1899     No.     24       Feb. 28, 1899     No.     24       Feb. 28, 1899     No.     24       Feb. 28, 1899     No.     25       Feb. 29, 1899     No.     25       Feb. 29, 1899     No.     25       Feb. 29, 1899     No.     25       Feb. 20, 1899     No.     25       Feb. 20, 1899     No.     25       Feb. 20, 1899     No.     25       Feb. 20, 1899     No.     25       Feb. 20, 1899     No.     25       Feb. 20, 1899     No.     25 </td <td>6 00</td>	6 00
Aug. 19, 1898 Taylor & Peek Cuba 53 Nov. 17, 1899 Soc. 1 5, 1899 Soc. 1 21 May 22, 1899 Soc. 2 21	6 00
Feb. 15,1819 No. 1 35 May 22,1819 No. 1 24 Feb. 25, 1819 Vo. 2	6 00
May 22, 1899 '' No. 1	6 00
	6 00
May 24, 1899 ' No. 2 '	6 00
Dec. 15, 1898 Taylor Bros	6 00
Mar. 21, 1899 14 Oct. 7, 1898 Turner Bros Lewiston 10	6 00
Feb. 2,1899 21	6 00
Apr. 5,1899	6 00
July 6,1898 Whitebreast Fnel Co.         Dunfermline         200           Oct. 6,1898         240	10 00
Jan. 6, 1899	10 00
Apr. 5, 1899	10 00 8 00
Oct. 3,1898 100	S 00
	5 00
1,1809	5 00
Dec. 1,1898 Woodward, Wm	6 00'
Feb. 22, 1899 May 16, 1899 Galesburg Galesburg	6 00
Total 8	8804 00
FOURTH DISTRICT.	,
Nov. 12, 1808 Athens Coal Co. Athens 130 Mar. 1, 1809 117 May 5, 1809 125	810 00
Mar. 1, 1899	10 00 10 00
Aug. 23, 1898 Bonnett, A. H	6 00
Mar         1,1899         117           May         5,189         125           Aug.         23,188         Bonnett         A. H.           Dec.         1,189         Pilot         16           June         6,1899         Blount         12           Dec.         23,1898         Black         33           Mar.         21,1899         30           Apr.         4,1899         4,189           Dec.         22,1888         Bolander Bros         12           Mar.         22,1898         Pekin         17           Mar.         24,1899         11         12           Oct.         13,1898         12         80           Oct.         13,1899         No.         2         80           Jan.         31,1899         No.         2         80           Apr.         22,1899         No.         1         130           Apr.         22,1899         No.         1         125	6 00
Dec. 23, 1898 Blake, A. C. E. Peoria	S 00
Mar. 21, 1899 30 Apr. 4, 1899 42	6 00
Apr. 4, 1899 42 Dec. 22, 1898 Bohlander Bros. Pekin 17	6 00
Mar. 23,1899	6 00
June 7,1899 Soct. 13,1898 Brookside Coal Co	6 00
Oct. 15, 1898 Brookside Coal Co	10 00
Nov. 23, 1898	S 00
Jan. 31, 1899 Feb. 22, 1899 No. 1	S 00 10 00
Apr. 22, 1899	10 00
May 15, 1899 'No. 1	10 00

### Fourth District, Statement—Continued.

	ite of ection.	Name of Firm, Company or Person Operating Mine.	Location of Mine.	Number of men employed.	Inspection fee charged.	Inspection fee paid.
Nov.	14, 1898	Bunting Bros. Bacon Bros. Butler Bros. Consolidated Coal Co.	Grape Creek	14	\$ 6 00	
Mar.	4, 1899			9	6 00	
Mar.	20, 1899	Bacon Bros	E. Peoria	8		
Mar.	22, 1899	Butler Bros	Pekin	14		
Apr. July	7 1898	Consolidated Coal Co	Fairmount	82	8 00	
Nov.	21, 1898	Consolidated Coal Co	ranimount	84		
Mar.	10, 1000		**	108	10 00	
May				72	8 00	
Sept.	12, 1898	Cruickshanks & Sons. Catlin Coal Co.	Chenoa	10	6 00	
Mar. Oct.	10 1999	Cotlin Cool Co	E. Peoria	130	10.00	
Mar.	6. 1899	Cathin Coar Co	Catlin	150	10.00	
Apr.	13, 1899 17, 1899	**	**	170	10 00	
Apr.	17, 1899	**		161	10 00	
Dec.	10,1898	Chicago & K. C. Coal Co	Petersburg	190	10 00	
Feb. June			Petersburg	130 66		
Mar.	24 1899	Citizen's Coal Co	Lincoln	75	8 00	
Nov.	30, 1898	Citizen's Coal Co.		94	8 00	
Dec.	14, 1898	**	**	110	10 00	
May	11, 1899	0.14 0.034 0		80	8 00	
Feb. June	15, 1899 16, 1899	Colfax C. & M. Co	Colfax	51 30	8 00 6 00	
Sept.	9 1898	Decetor Coal Co	Niantic	68	8 00	\$30 00
Sept.	22, 1898	Decardi Com Co	Trialities	72		
Feb.	9,1899	**	Decatur	135	10 00	
Feb.	14, 1899	· · · · · · · · · · · · · · · · · · ·		156	10 00	
May	2,1899 3,1899	No. 1 No. 2		90	10 00	
May Dec.	8 1898	Denton Wm	Patershurg	110 10	6 00	
Feb.	7, 1899	Denton, Wm. Denton, Wm. Dolring & Co., W. F. East Peoria Coal Co.	Petersburg	10	6 00	
Dec.	16, 1898	Dolring & Co., W. F	East Peoria	11	6 00	
Dec.	15, 1898	East Peoria Coal Co		40	6 00	
Feb. Mar.	20, 1899			43		
May				23	6.00	
Dec.	6, 1898	Ellsworth, J. W. Economy Coal Co	Glenburn	185	10 00	30 00
Oct.	22,1898	Economy Coal Co	Danville	35	6 00	
Feb.	2, 1899 26, 1899			125		· · · · · · · · · · · · · · · · · · ·
Feb.	15 1899	Ewing & Pitts.	Colfax	125 14	6 00	
June	16, 1899			30	6 00	
Sept.	8, 1898	Greenview Coal Co	Greenview!	70	8 00	
May	10.1899	Greenview C. & M. Co		81	8 00	
Dec. Mar.	22, 1898	Grant & Sons, L	Pekin	35	6 00	
May.	18 1899	Glenburn Coal Co	Glanburn	20 48	6.00	
Sept.	3, 1898	Fast Coffax Coal Co Greenview Coal Co Greenview C. & M. Co Grant & Sons, L Glenburn Coal Co Himrod Coal Co	Danville	225	10.00	
Nov.	11, 1898	4.	Westville	118	10 00	
Dec.	2, 1898 5, 1898			225	10 00	
Dec. Mar.	7 1898	No. 1		230 250	10 00	
Mar.	15, 1899	No. 2		190		
May	1, 1899			131	10 00	
May	20, 1899			225		
Mar.	21, 1898	No. 1 No. 2 No. 2 No. 1 Hanson & Co., A	East Peoria	45	6 00	
May Feb.	31, 1899 13, 1899	Hewitt C H	Chenon	40	6 00	
Nov.	15, 1898	III. Coal & M. Co.	Blo mington	40	6 00	6 00
Nov.	28, 1898	Jenkins, D. A.	Danville	12	6 00	
Oct.	5, 1898	Hewitt, C. H. Ill. Coal & M. Co. Jenkins, D. A. Kellyville Coal Co.	Westville	252	10 00	
Nov.	10, 1898 12, 1898	**		330 310	10 00 10 00	
Mar.	8, 1899	No. 3		300	10 00	
Mar.	14, 1899			320	10 00	
April	24, 1899	1	**	320	10 00	
May	24, 1899			272	10 00	
June		King & Grossweiler	Pekin	280	6 00	
*x brm	. ₩J, 1000	TIME OF GLOSSMEHET	T CHIMITITES	0	0 00	

### Fourth District, Statement—Concluded.

			191	fee	fee
Date of nspection.	Name of Firm. Company or Person Operating Mine.			:TB   E.:	Inspection paid.
ov. 16, 1898	Lincoln Coal Co	Lineoln		110 810	
rec. 14, 1898					00
lar. 21, 1899					00
une 29,1899				80 10	
ec. 23, 1898	Little & Co., E	Peoria.		38 6	00
et. 21, 1998	Lloyd, E Muncie Coal Co		e	10 6 8 6 60 8 6	00 00
uly 18,1898 uly 27,1898	Muncie Coal Co			60 8	00
et. 3,1898	**			44 6	00
et. 11, 1898	**			46 6	00
ar. 18, 1899	**			30 6	00
pril 10, 1899	**			29 6	90
pril 19, 1899	**			31 6	00
une 2,1899	**				00
ec. 16, 1899	Mushbaugh, J	East Pe	oria	14 6	00
eb. 10,1899	McLean Co. Coal Co	Bloomi	ngton	350 10	00
				160 10	00
	Mt. Pulaski M. Co		aski	26 6	00
	O'Connell John,		Creek	56 8	00
et. 14,1898				52 8	00
an. 30, 1899				45 6	00
pril 20, 1899	Progressive Coal Co				00
ec. 16, 1898	Progressive Coal Co	East Pe	oria	20 6	00
				18 14 6	00
lec. 21,1898 lec. 8,1898	Ratliff, I South Mountain Coal Co	Asnian			00
eb. 7,1899	South Monifian Coar Co		urg	171 6	00
pril 7,1899				12 6	00
lay 9,1899	Tallula Coal Co	Tallula		18 6	00
eb. 16,1899	Union Coal & M. Co	Mt Pol	auki	31 6	00
uly 20, 1898	Westville Coal Co	Westvi	lle		00
et. 7, 1898	Westville Cour Committee	• • •			00
ec. 12,1898	**				00
eb. 4, 1899	**				00
ar. 29, 1899	**			185 10	00
ay 22, 1899	**				00
lay 27, 1899	**			200 10	00
eb. 6,1899	Wabash Coal Co., No. 2	Athens			00
pril 8, 1899	**			160 10	00
	Total			\$1,030	00 860

### FIFTH DISTRICT.

			1	- 1	
Aug. 12,1898 Aul	burn Coal Co		Auburn	15	\$6 00
Nov. 3,1898	::		**	15	6 00
Jan. 16, 1899				16	6 00
April 13, 1899			**	20	6 00
Oct. 11,1898 Ass	sumption C. & M. (		Assumption	118	10 00
Feb. 21,1899	• • •			130	10 00
May 17, 1899			**	76	8 00
Aug. 30, 1898 Bar	clay Coal Co		Barelay	110	10 00
Oct. 27, 1898 Bar	clay Coal & M. Co			115	10 00
Feb. 28, 1899			**	104	10 00
					8 00
Sept. 26, 1898 Bat	es & Co., W. H		Winchester	40	6 00. \$6 00
June 20, 1899	**		Iles Junction Springfield	40	6 00
July 22, 1898 Bla	ck Diamond C. &	Т. Со	Springfield	70	8 00
Oct. 12,1898	**			75	8 00
Feb. 9,1899	**			95	S 00
April 25, 1899	**			90	S 00
Feb. 21, 1899 Bal				18	6 00
Feb. 17, 1899 But	nker Hill C. Co		Bunker Hill	14	6 00'

# Fifth District, Statement-Continued.

			men.	fee	fee
Date of Inspection.	Name of Firm, Company or Person Operating Mine.	Location of Mine.	# ×	Inspection f	Inspection f paid.
44 4000		G 4 33	1 1		
Aug. 11, 1898 Nov. 2, 1898	Cantrill Çoöp. C. Co	Cantrill	40 75	\$6 00 8 00	
Jan. 17, 1899	**		80	8 00	
April 5, 1899 July 29, 1898	Capital Coöp. C. Co. No. 2 No. 1 No. 2 No. 2 No. 2 No. 2	Springfield	85 60	8 00 6 <b>0</b> 0	
Sept. 7,1898	No. 1	Springfield	97	6 00	
Nov. 14, 1898 14, 1898	No. 1		25 78	6 00 8 00	
Feb. 6,1899	No. 1	:: ::::::	25	6 00	
April 10, 1899	No. 2 No. 1		80 25	8 00 6 00	
10, 1899	Carlinville Coal Co.		25	6 00	
July 8,1898 Oct. 3,1898	Carlinville Coal Co	Carlinville	50 55	6 00 6 00	
Dec. 22, 1898			59	6 00	
			95 90	8 00 8 00	
Sept. 27, 1898	Chatham Coal Co.	Chatham	44	6 00	
Dec. 5,1898	**		34	6 00	
Mar. 23,1899 May 29,1899	**		30	6 00 6 00	
Sept. 22, 1898	Chicago-Virden C. Co	Virden	15	6 00	
Nov. 30, 1898 Dec. 13, 1898	No. 2		135	8 00 10 00	
Jan. 9, 1899	·· No. 1	::	170	10 00	
April 12, 1899		Luhum	180 175	10 00 10 00	
Jan. 16, 1899	No. 2	Auourn	165	10 00	
July 28, 1898	Citizens' C. & M. Co A	Springfield	120	10 00 6 00	
Nov. 15, 1898	B		45 122	10 00	
15, 1595	B		90	8 00	
Jan. 19,1899 19,1899	:: B		90 95	8 00 8 00	• • • • • • • • • • • • • • • • • • • •
April 26, 1899	A		81	8 00	
June 22, 1899	B		70 82	8 00 8 00	
23, 1899	Coffeen C. & C. Co	**	75	8 00	
Sept. 7,1898 Dec. 6,1898	Clear Lake Coop C. Co	Rissoll	61 60	6 00 6 00	• • • • • • • • • • • • • • • • • • • •
Mar. 24, 1899	Coffeen C. & C. Co	Disseit	75	8 00	
May 31, 1799	a m a s a a	C1 - 00	84 120	8 00 10 00	
Oat 10 1808	Contect Citt Cr Cr IIII		160	10 00	
Feb. 3,1899	Consolidated Coal Co, Hornshy		155	10 00	
May 2,1899 July 9,1898	Consolidated Coal Co Hornshy	Hornshy	155	10 00 6 00	
Nov. 16,1898			105	10 00	
Feb. 16, 1899 July 13, 1898	(rillernie	Gillasnia	91 110	8 00 10 00	
Nov. 18,1898	· · · · · · · · · · · · · · · · · · ·	Gillespie	125	10 00	
Feb. 2,1899 May 3,1899	** ** ***		125 120	10 00 10 <b>0</b> 0	
July 15, 1898	" No. 8	Mt. Olive	230	10 00	
Nov. 23, 1898	No. 8 No. 8		225	10 0G 10 00	
Mar. 10, 1899 May 4, 1899	No. 8 No. 8	**	200 202	10 00	
Sept. 14, 1898	No. 6	Staunton	250	10 00	
Nov. 17, 1898 Mar. 17, 1899	No. 6 No. 6		270 165	10 00 10 00	
April 20, 1899	No. 5	::	245	10 00	
Sept. 23, 1898 Nov. 17, 1898	No. 7 No. 7		115 150	10 00 10 00	
Mar. 16, 1899	Yo. 7		165	10 00	
April 21, 1899	No. 7	Mt Olive	170 200	10 00 10 00	
Nov. 23, 1898 Mar. 9, 1899	No.10	Mt. Olive	220	10 00	
May 5, 1899	Edinburg Cool Co	Edinburg	175 12	10 00 6 00	
Dec. 28, 1898 May 26, 1899	No. 1	Earthours	40	6 00	
July 18, 1898	Girard Coal Co	Girard	70	8 00	

# Fifth District, Statement—Continued.

	ri e		men d.	fee	Lee .
Date of Inspection.	Name of Firm, Company or Person Operating Mine.	Location of Mine.		Inspection charged.	Inspection paid,
Oct. 4, 1898	Girard Coal Co	Girard	125		
Feb. 15, 1899	Girard Coal Co		120 119	10 00	
April 6, 1899 Feb. 15, 1899	Greenridge Coal Co		125	10 00	
April 7, 1899 July 14, 1898	Greenridge Coal Co Hillsboro Coal Co	Hillshoro	125 106	10 00	
Nov. 25, 1898	THIS MOTO COAT CO		118	10 00	
Jan. 27, 1899 May 15, 1899	::		135 70	10 00 S 00	
Ano 12 1898	Horse Creek Coal Co	Pawnee	- 9	6 00	
Oct. 12,1888 Feb. 9,1899	Junction Mining Co. Junction C. & M. Co.	lles Junction Springfield	75 90		
			82	8 00	
July 6, 1898 6, 1898	Litchfield M. & M. Co Litchfield M. & P. Co	Litchfield	20 60	6 00	
NOV. 21, 1898			55		
Jan. 13, 1899	::		26 55	6 00	
April 1 1800			52	6 00	
Aug. 12,1898 Dec. 8,1898	Madison Coal Co	Mt. Olive	220 220	10 00 10 00	
Mar. 8,1899	No. 5	**	180	10 00	
May 6, 1899 Dec. 2, 1898	Montgomery Coal Co	Paisley	225 60	10 00 6 00	
April 3,1599	Montgomery Coal Co.  Moweaqua M. & Mfg Co.		48	6 00	
Dec. 1,1898 Mar. 22,1899	Moweaqua M. & Mig Co	Moweaqua	160 120	10 00 10 00	
Hay 16, 1899			116	10 00	
July 20, 1898 Nov. 29, 1898	Neil, Wm. & Co Nilwood Carbon Coal Co	Bunker Hill Nilwood	20	6 00 6 00	
Mar. 27, 1899	The state of the s		40	6 00	
May 5,1599 Nov. 29,1898	O'Garra, King & Co	Girard	40 75	6 00 8 00	
sept. 19,1898	O'Garra, King & Co. Penwell C. & M. Co	Pana	41	6 00	36 0
Dec. 14,1898 Jan. 23,1899			125 160	10 00 10 00	
Mar. 3, 1899			202	10 00	
June 12, 1899 Oct. 7, 1898	Pana Coal Co		210 35	10 00 6 00	94 0
lar. 3,1899	Pana Coal Co No. 1 Nos, 1 and 2 Riverton Coal Co.	**	110	10 00	
June 14, 1899 Aug. 26, 1898	Nos. 1 and 2	Riverton	115 200	10 00 10 00	
Oct. 28, 1898				10 00	
Feb. 22, 1899 23, 1899	No. 1		230	6 00	
May 24, 1899	No. 2 No. 1 No. 2		10	6.00	
24, 1899 Dec. 27, 1898	Raymond Coal Co	Raymond	225 15	10 00 6 00	
Aug. 9,1898	Sangamon Coal Co	Springfield	125	10 00	
Yov. 12,1898 Feb. 8,1899	1	***	125 140	10 00 10 00	
April 28, 1899	**	**	95	S 00	
Aug. 30, 1898 Oct. 27, 1898	Spaulding Coal Co	Spanlding	110	10 00 8 00	
Pals 99 1900		**	110	10 00	
June 2, 1899 Aug. 10, 1898	Springfield C M A. T Co	Springfield	90 106	S 00 10 00	
Oct. 8,1898	Springfield C. M. & T. Co		120	10 00	
Jan. 17, 1899 April 25, 1899	::		166 80	10 00	
Aug. 9,1898	Springfield Coop, Coal Co		125	10 00	
Nov. 11,1898			93 95	8 00	
April 27, 1899		Ridgely	69	8 00	
Sept. 8, 1898 Oct. 31, 1898	Springfield & P. P. Coal Co	Pleasant Plains	20 25		
April 11, 1899	,,	**	18	6 00	
Aug. 10, 1898 Nov 11, 1898		Ridgely	110 120	10 00 10 00	
Jan. 18, 1899		**	110	10 00	
April 27, 1899			112	10 00	

# Fifth District, Statement—Concluded.

				men 1.	fee	fee
Date of Inspection.		Name of Firm, Company or Person Operating Mine.	Location of Mine.	Number of men employed.	Inspection charged.	Inspection paid.
july	22, 1898	Springfield Junction C. Co	. Iles Junction	80	\$8 00 6 00	
A	26, 1898	Springside C. & M. Co		11 63	6 00	
	31, 1898 20, 1898	**		110	10 00	
Dec. Ian.	23, 1899	**		110	10 00	
lar.	4.1899			110	10 00	
	13, 1899	**		105	10 00	
Sept.	1 1000	Stanna's C M Co	. Springfield	96	8 00	
lov.	4.1898	Starne's C. M. Co.	. Springheid	110	10 00	
eb.	7.1899	**		110	10 00	
	28, 1899	**		120	10 00	
	20, 1898	Taylorville C. Co	. Taylorville	245	10 00	
et.	5, 1898	Taylor vine C. Co	• •	265	10 00	
	21, 1899	**		245	10 00	
Iay	25, 1899	**		235	10 00	
ulv	19 1898	Thomas Pressed Brick Co	. Golden Eagle	16	6 00	
lay	19, 1899	Thomas Tressed Brick Co	. dolden Bagie	17	6 00	
		Virden Coal Co	. Virden	34	6 00	
	12, 1898	**	* *	120	10 00	
	17, 1899			120	10 00	
Ang.	26 1897	Wabash Coal Co	. Dawson	90	8 00	
Oct.	18, 1898	**	**	116	10 00	
	22, 1899	**		111	10 00	
	23, 1899			102	10 00	
uly	29, 1898	Williamsville Coal Co	. Williamsville	60	6 00	
et.	29, 1898	The control control	* *	55	6 00	
une	1,1899	**		50	6 00	
uly	25, 1898	Woodside Coal Co	. Springfield	80	8 00	
Oct.	26, 1898	1.0	1	90	8 00	
	30, 1899			110	10 00	
	24, 1899	**		80	8 00	
uly	27, 1898	West End Coal Co		60	6 00	
Vov.	1,1899			30	8 00	
eb.	29, 1899	**		86	8 00	
lay	22, 1899	**		68	8 00	
	, -,		1			
		Total			\$1,644 00	\$328 0
				İ		Į.

### SIXTH DISTRICT.

Aug.	3, 1898	Advance Coal Co	  Marissa	9	\$6 00
Jan.	21,1899	1		6	6 00
May	31, 1899			8	6 00
Aug.	23,1898	Belleville & O'Fallon C. Co	Belleville	45	6 00
Jan.	23, 1899			26	6 00
Sept.	9, 1898	Breese Coal Co	Breese	175	6 00
Dec.	24, 1899		* *	175	10 00
April	27, 1899	** **	**	160	10 00
		Beatty, Jas		8	6 00
14011	-0,1000	Consolidated Coal Co.—	Mascodtan	· ·	0 00
July	22, 1898	Pittsburg mine	Relleville	12	6 00
o diy	25, 1898	White Oak mine	Moriego	35	6 00
Aug.	19, 1898	Trenton mine	Thonton	100	16 00
				72	8 00
Aug.	30, 1898			20	0 00
Sept.	12,1898		Benevine		6 00
	12,1898			50	8 00
Oct.	25, 1898		Collinsville	122	10 00
	26, 1898		Troy	55	8 00
	26, 1898			54	8 00
Nov.	10,1898			90	8 00
Nov.	14, 1898	Schureman mine	Belleville	50	8 00
	17, 1898	White Oak mine	Marissa	50	8 00
	28, 1898	Green Mt. mine		35	6 00
Dec.	22,1895	Trenton mine		120	10 00
an.	21, 1899			30	6 00
	2000			50.	

### Sixth District Statement—Continued.

			men .	fee	fee	
Date of Inspection.	Name of Firm, Company or Person Operating Mine.	Location of Mine.	Number of employed.	Inspection charged.	Inspection paid.	
D 1 2 4000	Consolidated Coal CoConcluded.	n 11 111		-2.00		
Feb 6, 1899 6, 1899	Pittsburg mine	Belleville	15 15	86 00 6 00		
14, 1899	Gartside No. 4 mine		45	6.00		
20, 1593	White Oak mine	Morieco	50 26	6 00		
11, 1899	Breese mine	Breese	85	S 00		
24, 1899	Troy mine	Troy	60	5 00		
25, 1899 27, 1899	Abbey No. 3 mine	Collinsville	120 75			
29, 1899			30	6 00		
lay 11, 1899	Heinz Bluff	Cellinsville	90	8 00		
15, 1899 31, 1899	White Oak mine	Marissa	60 30	5 00		
une 12, 1899	Gartside, No 4 mine	Belleville	43	6 00		
26, 1895	Abbey, No. 3 mine	Collinsville	120	10 00		
Sept. 7,1898 Seb. 2,1899	Gartside, No 4 mine Abbey, No. 3 mine Crown Coal & Tow Co.	Belleville	15	6 00		
eb. 2,1899 une 13,1899			50 75	8 00		
ec. 19,189	Centralia M. & Mfg. Co	Centralia	100	10 00	\$18.0	
lay 17,1899	Centralia M. & Mfg. Co  Donk Bros. Coal Co	Centralia	155	10 00		
lar. 16,1899 Aug. 24,1898	Donk Bros Coal Co	Relleville	150 50	10 00		
eb. 13, 1899	Trong Cour Co	Dene me	78	8 00		
une 20,1899	7	* * * * * * * * * * * * * * * * * * * *		8 00		
Sept. 8,1898 Nov. 21,1898	Dutch Hollow Coal Co	Freeburg	25 31	6 00		
lar. 6.1899	Duten Honow Coai Co	r recourg	34	6 00		
Dec. 15, 1898	Dutch Hill Coal Co	New Athens	12	6.00		
dar. 15, 1899	Dutch Hollow Coal Co. Dutch Hollow Coal Co. Dutch Hill Coal Co. Ebel. August Eureka Coal Co. Freeburg M. Co.	Dallarilla	12	6 00		
Aug. 16,1898 3,1898	Eureka Coal Co	Marrissa	8	6 00		
an. 21,1899			6	6 00		
Sept. 8, 1898 Nov. 21, 1898	Freeburg M. Co	Freeburg	14	6 00		
lar. 6, 1899	Glendale Coal Co. Glendale C. & M. Co., No. 2. No. 1. No. 2. No. 1. Germantown C. Co. Hartman, Chas. Highland Coal Co. Hippard Coal Co.	**	13	6 00		
uly 22, 1898	Glendale Coal Co	Belleville	60	8 00		
et. 4,1595	Glandala C & M Co No 2		60. 20	5 00		
'eb. 21,1899	No. 1	**	50	8 00		
lar. 29, 1899	No. 2		20	6 00		
day 22, 1899	Commentary C. Co. No. 1	C	65	8 00 6 00		
ue. 11.1898	Hartman, Chas	Relleville	15	6 00		
an. 23, 1899			20	6 00		
ept. 19,1898	Highland Coal Co		39	6 00	15 0	
lav 21 1899			40 30	6 00		
ug. 16,1898	Hippard Coal Co	* * * * * * * * * * * * * * * * * * * *	30	6 00		
ov. 22,1898	***		50	5 00		
lar. 9, 1899 lay 29, 1899			42 42			
ng. 16,1898	Humboldt Coal Co		26	6 00		
eb. 21, 1899			25	6 09		
une 20,1899 lct. 6,1898	Hanrietta Coal Co	Edwardsville	25 30	6 00		
Iar. 14,1899	Henrietta Coar Co	Lawainsville	45	6 00		
let. 6, 1898	Home Trade Coal Co		6	6 00	12 (	
Iar, 14,1899 aug. 30,1898	Henrietta Coal Co Home Trade Coal Co Independent Coal Co Johnson Coal Co	Collinsville	10	6 00	18 0	
Oct. 11,1895	independent Coar Co	Countie	40	6 00		
Iar. 24,1899			50	6 09		
uly 25,1898 Nov. 17,1898	Johnson Coal Co	Marissa	30	6 00		
Feb. 20, 1899	**		30 30			
lay 18,1899			30	6 00		
July 23, 1898	Johnson C. & M. Co	Belleville	20 65	6 00		
Nov. 29, 1898	Johnson C. & M. Co. Kalb Coal Co.	mascouta	62			
April 10, 1898	**		70	5 00		
Oct. 12, 1898	Kinmundy Coal Co	Kinmundy	60	5 00:		

# Sixth District, Statement.—Continued.

Date of Inspection.	Name of Firm, Company or Person. Operating Mine.	Location of Mine.	Nymber of men employed.	Inspection fee charged.	Inspection fee paid.
Feb. 1,1899	Kinmundy Coal Co	Kinmundy	40		
April 8,1899 July 11,1898	Kinmundy Coal Co Lebauon Coal & M. Co	Lebanon	57 30		
Dec. 20, 1898	Debadon Coar & M. Co	Leonidon	60	8 00	
April 15, 1895 Aug. 3, 1898	filldorf D	Marissa	60 18		
Oct. 11, 1898	Lumaghi Coal Co	Collinsville	80	8 00	
Mar. 25, 1899 Jan. 10, 1899	Lilldorf, D. Lumaghi Coal Co Lenz Coal & M. Co	Belleville	96 34	8 00 6 00	
May 20, 1899	Benz Court M. Co		20	6 00	
July 20, 1898	Madison Coal Co., No. 2. No. 4. No. 3. No. 2.	Glen Carbon	209 129	10 00	
Oct. 6,1898	No 3	Edwardsville	30	6 00	
Nov. 1,1898 Jan. 30,1899		Glen Carbon	200 160		
Mar. 14, 1899	No. 3	Edwardsville	85	8 00	
April 26, 1899 June 5, 1899	No. 2	Glen Carbon	220 210	10 00 10 00	
July 6,1898	Moser, Jacob, Coal Co.	Rentchler	16	6 00	
Apri! 24, 1899	**		20 10	6 00	
July 18, 1898	Mt. Olive & Staunton C. Co	Staunton	80	8 00	
Nov. 4,1898 Feb. 3,1899			120 140	10 00	
April 20, 1899		D	140	10 00	
Aug. 17, 1898 Nov. 15, 1898	Mo. & Ill. Coal Co	Rentchler Freeburg	40 56	8 00	
15, 1898	(Wilderman)	Wilderman	58	8 00	
Jan. 24,1999 April 24,1899	**	Rentenier	32 45	6 00 6 00	
May 26, 1899	Muren Coal Co Muren Coal & Ice Co. Murphy Coal Co. Oak Hill Coal Co.	D 11 211	60	8 00	
Sept. 20, 1898 Dec. 13, 1898	Muren Coar Co	Belleville	87 91	8 00	
June 2,1899	Muren Coal & Ice Co	**	60	8 00	
Nov. 4,1898 Sept. 26,1898	Oak Hill Coal Co	**	22	6 00	
Dec. 13, 1898 Feb. 14, 1899	::	::	25 20	6 00	
May 21, 1899	**		25	6 00	
July 23, 1899 Dec. 5, 1898	Oakland Coal Co	**	40	6 00	
May 2, 1899		**	40	6 00	
July 21, 1898 Oct. 24, 1898	Odin Coal Co	Odin	130	10 00	
			150	10 00	
May 16, 1899 Aug. 17, 1898	Orden Bros 'Coal Co	Renchler	150		
April 24, 1899	Ogden Diosi Coar Cog.	Renemer	10	6 00	
July 5,1898 Dec. 20,1898	Ogden Bros, Coal Co	O'Fallon	70 58	8 00 8 00	
			54	8 00	
Jan. 1,1898 April 29 1899	Pittinger & Davis M. & M. Co	Centralia	168	10 00	
Sept. 19, 1898	Pittinger & Davis M. & M. Co.  Reinecke Coal Co. (Conrad)	Belleville	17	8 00	
			75 50	8 00	
Oct. 10,1898	Ruby C. & M. Co. Salem Coal Co.	Caseyville	34 17	6 00 6 00	
Aug. 27, 1898 Dec. 2, 1898	Salem Coal Co	Salem	24	6 00	
Mar. 4, 1899			30	6 00	
April 7,1899 Sept. 7,1898	Skellett Coal Co	Belleville	33	6 00	
Jan. 9, 1899	Summare Toe	Smithboro	35 17	6.00	
Aug. 10, 1898 22, 1898	Summit Coal Co	Belleville	17	6 00	
Dec. 10,1898 Jan. 13,1899	Smithboro Coal Co	Smithboro	25 30	6 00 6 00	
Oct. 31,1898	Sorento M. & Mfg Co	Sorento	100	10 00	
Mar. 20,1899 June 27,1899	Skellett Coal Co Summers, Jos Summit Coal Co Summit Coal Co Sorento M. & Mfg Co Sorento P. & M. Co Sandoval Coal Co		160 150	10 00 10 00	
Feb. 23, 1899	Sandoval Coal Co	Sandoval	200	10 00	

### Sixth District, Statement—Concluded.

Date of Inspection.	Name of Firm, Company or Person Operating Mine.	Location of Mine.	Number of men employed.	Inspection fee charged.	Inspection fee paid
June 24, 1899	Sandoval Coal Co	Sandoval	200	\$10 00	
Lon 0 1900	Cummit C. & Mfr. Co.	Birkner	30		
Aug. 8, 1898	Taylor, Jos., (Mentor)	Ridge Prairie	65		
Aug. 8, 1898		O'Fallon	75		
Oct. 10, 1898			65		
Dec. 16.1898			65		
April 5, 1899			70		
April 5,1899		B 11	66		
Nov. 14, 1898	Taylor Bros	Belleville	6		
	Tirri & Sons C. Co	Lenzburg	5 13		
Sept. 27,1895			25		
Dec. 15, 1898			18		
Mar. 15, 1899			25		
May 23, 1899		Trenton	76		
Aug. 19,1898	Trenton C. L. & P. Co	Trenton	96		
Dec. 22,1898 Mar. 27,1899			85		
		Birkner	25	6.00	
Aug. 23,1898 Nov. 28,1898		Dirkheimm	40	6 00	
May 19, 1899			40	6 00	
	Totals			\$1,338 00	854

### SEVENTH DISTRICT.

Oet.	04 4000	Barber & BroT	02220400	15	s6 00
	24, 1595	Darnerd William	ntler	16	6 00
July	10, 1505	Barnard, WilliamC	diter	42	6 00
Nov.	90, 1000			12	6 00
Feb.	2,1899	***		45	6 00
	10, 1899	D. M. D. O. C. O. O.		54	8 001
Aug.	15, 1898	Big Muddy C. & C. Co D	esoto		10 00
Mar.	13, 1599	B. 31 11 0 4 4 0 137 2 11111111111111			10 00
Sept.	9.1898	Big Muddy C. & I. Co., No. 7	errins		
Oet.			turphysboro		10 00
	28,1895	NO. 0			10 00
Nov.	22,1898	NO. 5			10 00
Dec.	1,1898	No. 1 II	errins		10 00
Feb.	4,1899	(Harrison) M			10 00
	6,1899				10 00
• •	15, 1599	** No. 6			10 00
Mar.	10, 1899	No. 7 H	errins		10 00
April	24, 1899	No. 5 M	lurphysboro		10 00
May	26, 1899	· · (Harrison)			10 00
June	5,1899	No. 6			10 00
	22, 1899	No. 7 H	[errins		10 00
July	21, 1898	Boyd Coal & Coke Co. No. 1 S	parta		10 00
	21.1898	No. 2	***	22	8 00
Dec.	17, 1898	No. 1	::	43	6 00
	17, 1898	No. 2		14	6 00
Feb.	3, 1899	" No. 1		48	6 00
	3, 1899		**	15	6 00
June	24, 1899	No. 1		53	6 00
0 444	24, 1899	No. 2	**	18	5 00
July	23 1898		utler	20	6 00
Nov.	30, 1898	Dio 12 3, Bot 11 C		32	6 00
Feb.	2, 1899	. **		34	6 001
	10, 1599		••	27	6 00
July	5 1898	Brown & Son P	inckneyville	90.	6 00
Nov.	29, 1898	Diowa & con		105	6 00
Jan.	31, 1899	• •	* *	95	10 00
April				90	8 00
Ang	94 1000	Punnaida Caal Ca	low Burnside	25	8 00
Dec.	3 1999	Borders Wm R	erev	21	6 00
Feb.	1 1599	Borders, Wm. R. P		19	6 00 812 00
	11. 1899			26	6 00
Dec	10 1505	Renograman I F	lochville	14	6 00
Sont	10, 1000	Brueggeman, J. F. N. Carterville Coal Co	arterville	106	6 00
Dec.	10, 1898	carter inte Coar Co	attervine		10 00
Dec.	10, 1595				** ***

# Seventh District, Statement—Continued.

							men .	fee	fee
Date Inspec	etion.	Name of Firm, Oper			l		# Q	Inspection charged.	Inspection paid.
Feb. 2	1, 1899	Carterville Coal	Co		Cartervi	lle	140	\$10 00	
May 2' Aug. 2'	$\frac{7,1899}{2.1898}$	Crawford, A. W			Lake Cr	ek	120 75	10 00 8 00	
Oct.	7, 1898	Clambola, 21. 11			Dake Or		55	8 00	
							50	8 00	
Jan. 1	7,1899	Coulterville M.	Co		Coulterv	ille	17 45	6 00 6 00	
April	8,1899	Coulterville M. Crab Orchard C DuQuoin Union			Nr		40	6 00	
Mar. 13 June	1.1899	Crao Orenara C	oai Co	• • • • • • • • • • • • • • • • • • • •	Marion	· · · · · · · · · · · · · · · · · · ·	37 25	6 00 6 00	
July 1	8,1898	DuQuoin Union	Coal Co., Ente	rprise.	DuQuoir	1	70	8 00	
Aug. 10 Oct. 20	0,1898 4,1898		Brov	vning			104	10 00	
		4.6		ptian			30 125	10 00	
Dec. 1	7,1898 5,1898	**	Ente	rprise.			80	8 00	
Jan. 16 Feb. 1	6, 1899 7, 1899	**	Egy: Brox	otian vning			45 115	6 00 10 00	
Mar. '	7,1899	4.4	Ente	rprise.	• •		79	8 00	
April 2: May	1 1200			vning	* *		90 65	8 00 8 00	
Oct.	6, 1898	DuQuoin Coöp. Donk Bros. C. &	Ente	rprise.	Sparta		125	10 00	
May 2	3, 1899	DuQuoin Coöp.	Coal Co		DuQuoir	1	15	6 00	
July 16 Oct. 8	6, 1898 8, 1898	Donk Bros. C. &	t C. Co		Tilden		40 38	6 00	
Jan. 2	3, 1899	4.4			••		58	8 00	
Mar.	6,1899	**					63	. 8 00	
May 10 Dec. 13	0, 1899 3, 1898	Davenport Coal	Co		Harrish	rg	54 75	8 00	
April 2	1, 1899	Davenport Coal			Ledford		113	10 00	
Feb. 10 May 2	5 1899	Dick Coal Co. F	M. Co Pohort	• • • • • • • •	Sato	ii	16	6 00	\$6 00
Dec. 1	4, 1898	Dempster C. & F Dick Coal Co., F Equality Coal C Gartside Coal C	0		Equality		58	3 00	
Sept. 1	2, 1898	Gartside Coal C	o. No. 1		Murphys	boro	26	6 00	
Oct.	4, 1898		No. 1				60 36	6 00	
	4, 1898	* *	No. 3				53	8 00	
1.	2, 1898 8, 1899		No. 4 No. 1				75 30	8 00	
Jan. 28	8,1899		No. 3				60	8 00	
	8,1899		No. 1		! ::		75	8 00 6 00	
April 1'	7.1899	* *	No. 1		**		32 75	8 00	
May 2	6, 1899	Goalby & Son, V	No. 4				72	8 00	
Sept. 19 Dec. 20	0.1898	Goaldy & Son, V	v. G	• • • • • • •	Percy		26 32	6 00 6 00	
							36	6 00	
April 2' Nov. 10	7, 1899	Greenwood & D	No. 2		D. O. III		36	6 00	
Jan. 30	0, 1899	Greenwood & D	avis		Dudion		$\frac{130}{125}$	10 00 10 00	
May 8	8, 1899	TT 0 111 0					90	8 00	
uly 13	5, 1898 6, 1898	Horn Colliery C	0				100 160	8 00 10 00	
Ion 9	5 1900	• •					125	10 00	
June 3 Dec. 13	3, 1890	Hannishman C. C	W. 6.		TT t - 1		200	10 00	
April 2	1, 1899	Harrisburg C. &	м. со		Harrison	ırg	41 35	6 00 6 00	24 00
July 2	7,1898	Harrisburg C. & Ill. Fuel & Powe	r Co., No. 2		Roseboro		20	6 00	
Aug.	1, 1898 2, 1898		No. 3		Sparta	• • • • • • • • • • •	13 26	6 00 6 00	
		**	No. 3				17	6 00	
Mar. 20	0,1899 5,1899		No. 3				24 24	6 00	
Dec. 28	8, 1898	I. C. Coal & Salt	Co		St. John	8	$\frac{24}{116}$	6 00 10 00	
Jan. 20	6, 1899	I. C. Coal & Salt					135	10 00	
April 6	6, 1899 9, 1898	Juniter M. Co			DuQuoin		126 60	10 00 8 00	
13							35	6 00	
Dec. 3	5,1898	Mumbrobors D	M. C. Co		Onto .		46 51	6 00 8 00	

# Seventh District, Statement—Concluded.

			(-)		nen.	3.	fee
Date of Inspection.	Name of Firm, Com Operating	pany or Person Mine.	Location	of Mine.	Number of men employed.	Inspection charged.	Inspection paid.
uly 6,180	Morris Bros. & Co Muddy Valley M. & P		DuQuoir	ı	52 55	88 00 8 00	
Dec. 16,1898 Peb. 24,1898			•••		55	8 00	
Iay 2, 1895			Tier man		53 200		
ug. 15, 1898	Muddy Valley M. & 1	dfg. Co	Hamgay	boro	200		. <b></b>
et. 11,1898 eb. 13,1898	Murray, Hugh Murray, Alex Mt. Vernon Coal Co Ohio Valley C. & C.				250	10 00	
ay 16,189					175		
uly 19,1898	Murray, Hugh		Nasnym	e	20	6 00	
ar. 8,1899 ine 23,1899	Murray, Alex				30	6 00	
ily 11, 1898	Mt. Vernon Coal Co .		Mt. Veri	10n	30	6 00	
et. 3,189	:: .				40 70		
eb. 8,1895	Obje Velley C. & C	L'o	Marion		40	6 00	
ept. 23,1890 ec. 23,1890	omo vanes c. a c.				47	6 00	
ar. 16,189	1				70 68	5 00	<b></b>
ne = 2.189	Object Mice W C. C	M Co No 1				8 00	
ov. 25, 189 25, 189	Ohio & Miss. V. C. &	No. 2	:: :		95	8 00	
ar. 16,189	• • •				125 125		
ine = 2.189	Pope Mining Co		DnOnoi		35		
ily 12,189 ov. 19,189	Pope Mining Co		Duquoi		33	6 00	
n. 27, 189	,				38		
ay 16, 189	)'_ ' ' ' '		::		44 24	6 00	
ec. 21,159	Porter, J. C		••		28	6 00	
eb. 20,159 ec. 20,189	Porter, J. C.  Roseboro Coal Co  Sato Coal & M. Co  Scott-Wilson Coal (		Percy		40		
eb. 14,189					28 18		
aly 26, 189	Sato Coal & M. Co		Sato		30	6 00	
eb, 16,259 ay 9,159					18	6 00	
uly 30,189	Scott-Wilson Coal C	o., No. 1	Cartery	ille	80		
et. 5,189					74 61		
an. 24,189 [ay 11,189					40	6.00	
ug, 23, 159		No. 2	Fredoni	a	. 60		
101					. 10		
an. 15,189	8 St. Louis & Big Mu				65	8 00	
pril 5,189 uly 5,189	S St. Louis & Big Mu	ldy Coal Co	Cartery	ille	250	10 00	10
ov. 2,18!	5				300		
ar. 14,189	9 5 Sun Coal & Coke Co	• • • • • • • • • • • • • • • • • • • •			200	10 00	
lay 25, 181 uly 14, 181	Sun Coal & Coke Co	· · · ·	Sunfield	1	15	6.00	
ec. 16,18	8.				. 56		
eb. 24, 189	9				56		
lay 2,189 lov. 23,189	S Turner & Faust Co.		Pinckne	yville	. 16	6.00	
eb. 2,18	g rune. te i nace co.				. 15		
pril 8,18	9		Mounds	alamo	. 12		
or. 8,189 Oct. 27,189	S Turner & Faust Co.		ուսւթնչ	30010	20	6 00	
Iar. 9,18	9				. 15	6 00	
lay 27, 18	9		··· William		. 12		
Aug. 25, 18	S WIIIIs C. & M. Co		wingsv		. 65	8 00	
Dec. 3, 185 an. 18, 185	8 99 98 Willis C. & M. Co 99				96	5 00	
April 11, 18	19	.,, .,			. 130	5 00 10 00	
eb. 1,18	9 Western Anthracite	Coal Co	Sparta		140	10.00	
May 12, 18 Mar. 15, 18	99 Western Anthracite 99 Williamson Co. Coa	1 Co	Lake C	reek	. 73	5 00	
Lama 1 15	99				. 70	5 00	
June 1,18							

#### REVISED MINING LAW.

Through the medium of the Bureau the representatives of the miners' and operators' organizations of this State, practically agreed upon the present revision of our mining law. It was enacted without opposition by both branches of the last general assembly, and became operative July 1, 1899.

Aside from eliminating much that was ambiguous and inconsistent, resulting from numerous amendments to the old laws, many changes and some new features were added. The principal changes may be cited as follows:

Requiring all mines, irrespective of their capacity, to be in charge of certificated mine managers, mine examiners and hoisting engineers, where the services of the last mentioned class are necessary; and authorizing the State Mining Board to revoke certificates. In addition to the copies of the mine maps furnished the inspectors, one is required to be filed with the recorder of the county in which the mine is located. Every mine is required to have an escapement shaft or underground connection between it and some other contiguous mine; changing the time within which such escapement or connection shall be made, from a maximum limit of two years, under the old law, to nine months in the case of the deepest mines.

The number of men permitted to work in any mine not having an escapement, can not, under any circumstances, exceed ten, and then only for the purpose of completing the escapement or connection. This provision removes the limitation of the old law, which practically placed all mines employing less than six men outside of the inspection service. Requiring each escapement shaft opened subsequent to the law taking effect, to be provided with a substantial stairway, set at an angle not greater than forty-five degrees, with handrails, platforms, etc. Inspection once a week of all escapement shafts and passageways leading thereto, or connections with contiguous mine. Changing the designation of fire boss to mine examiner. Giving the Board of Labor Commissioners the power to change Inspection Districts. Providing for the necessary traveling expenses of the inspectors, and requiring the State to furnish, upon the requisition of the secretary of the Bureau of Labor, blanks, blank books, stationery, test weights, instruments, etc., for the use of the inspectors. Increasing the time of the sessions of the State Mining Board from 80 to 100 days in each year, and the compensation from \$3 to \$5 per day, exclusive of necessary traveling expenses. Making it a misdemeanor for any operator or other employer of labor who refuses to furnish the agents of the Bureau with information concerning the wages or conditions of their employés. Authorizing the appointment by the board of supervisors or county commissioners, of county inspectors of mines in any county in the State where coal is produced; in the former Act county inspectors were authorized only in counties producing 800,000 tons or more per annum. No room to be opened in advance of the air current, and cross-cuts not more than sixty feet apart. Operator to furnish safety lamps when required, also stretchers and blankets for the use of injured workmen.

The above comprises the principal changes provided for in the present law. They are all in the interest of the workmen, and provide for a more perfect and effective system of inspection. As previously noted, much of the labor incident to this revision, devolved upon the Commissioners of Labor. They were aided in this work by the experience of other mining states and countries. While the period of its enforcement has been brief, it has thoroughly demonstrated the wisdom of the change, and fully rewarded the unselfish labors of those engaged in its preparation. The principal feature omitted from the old law is that relating to inspection fees. As amended in 1895, the law provided that the owners of coal mines should pay a fee for the inspection of their mines. This varied according to the size of the mine, and the number of men employed. By common consent of all parties in interest, this clause of the law was not included in the revision. It was the unanimous opinion that the State, assuming supervision over the coal mines, should pay the salaries of its inspectors, and defray the expenses incident thereto.

Following is the text of the law as revised:

#### MINES AND MINING.

#### COAL MINES.

#### REVISION OF LAW RELATING TO COAL MINES,

- § 1. (a) Maps or plans of mines, (b) surface surveys, (e) underground survey, (d) for every seam, (e) separate map for surface, (f) dip, (g) copies for inspectors and recorders, (h) annual surveys, (i) abandoned mines, (j) special survey, (k) penalty for failure.
- Main shaft, (a) sinking, subject to inspection, (b) passage way around the bottom, (c) gates at top, (d) general equipment.
- § 3. Escapement shaft, (a) two places of egress, (b) unlawful to employ more than ten men until escapement shaft is completed, (c) passageways to escapement, (d) distance from main shaft, (e) buildings on surface between shafts, (f) equipment, (g) obstructions in, (h) inspection of, (i) communication with adjacent mine, unlawful to close.
- § 4. Engine and boiler house, location, fireproof, equipment.
- § 5. Powder to be stored in fire-proof building.
- State Mining Board, appointment, duty, term, supplies, meetings, rules for examination.
- § 8. (a) Certificates issued by board, contents, (b) register of, (c) effect of, (d) foreign, (e) unlawful to employ any but certificated miners, (f) hoisting engineers, (g) mine examiners, exceptions, mine managers to act as mine examiners, mine manager's certificate exchanged for mine examiner's certificate, (h) cancellation of certificates.

- 8 9. Fees for examination and certificates.
- Compensation of board, secretary's salary, how drawn,
- § 11. (a) Division of State into inspection districts, (b) changes may be made in boundaries of districts, new districts,
- 2 12. Inspectors, (a) bonds, (b) instruments to be furnished by State, (c) duties, (d) authority to enter mines, (e) procedure in case of objections, (f) nottees to be posted, (g) ex-officio sealer of weights, (h) State to furnish testing weights, (j) annual reports, (j) publication of reports, supplies furnished by Secretary of State, employers of labor to assist in procuring statistics for publication, penalty for failuré.
- § 13. Compensation of inspectors, how drawn.
- Removal of inspectors, petition for, hearing.
- § 15. Counties to appoint county inspectors as assistants, duties, must hold State certificate, compensation.
- 2 16. Mine managers' duties.
- ? 17. Hoisting engineers' duties.
- ₹ 18. Mine examiners' duties.
- § 19. Ventilation, (a) amount of air to be kept in circulation, (b) measurements, (i) inspector may order men out of mine when air is insufficient.
- § 20. Powder or explosives, (a) prohibits storing in mines, amount allowed each man, care of while in mines, (b) manner of handling, (c) none but copper tools to be used in charging, (d) use of squibs, (e) exploding blasts, (f) missed shots, (g) sprinkling dusty mines.

- § 21. Places of refuge to be cut in side walls, size, distance apart, storing material in prohibited.
- § 22. Children and females prohibited from working.
- ₹ 23. Hoisting signals.
- Weighing and weighmen, (a) operator
  to furnish scales, (b) duties and
  oaths of weighmen, (c) check weighmen permitted, paid by mlners,
  duties.
- § 25. Boundaries, ten-foot limit, approaching old works.
- 26. Notice to inspectors of accidents, sinking shafts, abandoning mines, etc.
- 27. Accidents, (a) duties of inspectors, operator to keep record of on blanks furnished by inspectors, (b) coroner's inquest, (c) inspector to investigate cause of accident.

- § 28. Men on cages, (a) top and bottom man, (b) lights on landings, (e) speed of cages, tools and timber prohibited on except for repairs, (d) right of way for men to come out.
  - § 29. Safety lamps, (a) operator to furnish in case of fire damp, (b) care of.
  - § 30. Operator to have on hand blankets, stretchers and bandages for use in ease of accidents.
  - § 31. Caution to miners unlawful to injure shaft, safety lamp, instruments, etc.
  - § 32. Operators to post rules not inconsistent with this act.
  - 2 33. Penalty for violation of any of the provisions of this aet.
- § 34. Defines terms, (a) mine, coal mine, (b) excavations or workings, (c) shaft, (d) slope or drift, (e) operator, (f) inspector, (g) mine manager, (h) mine examiner.
- An Act to revise the laws in relation to coal mines and subjects relating thereto, and providing for the health and safety of persons employed therein.

Section 1. Be it enacted by the People of the State of Illinois, represented in the General Assembly:

#### MAPS OR PLANS OF MINES.

MARS NECESSARY. (a) That the operator of every coal mine in this State shall make, or cause to be made, an accurate map or plan of such mine, drawn to a scale not smaller than two hundred feet to the inch, and as much larger as practicable, on which shall appear the name, the state, county and township in which the mine is located, the designation of the mine, the name of the company or owner, the certificate of the mining engineer or surveyor as to the accuracy and date of the survey, the north point and the scale to which the drawing is made.

SURFACE SURVEY. (b) Every such map or plan shall correctly show the surface boundary line of the coal rights pertaining to each mine, and all section or quarter section lines or corners within the same; the lines of town lots and streets, the tracks and side-tracks of all railroads, and the location of all wagon roads, rivers, streams, ponds, buildings, landmarks and principal objects on the surface.

Underground Survey. (c) For the underground workings said maps shall show all shafts, slopes, tunnels or other openings to the surface or to the workings of a contiguous mine; all excavations, entries, rooms and cross-cuts; the location of the fan or furnace and the direction of the air currents; the location of pumps, hauling engines, engine planes, abon loned works, fice wills and standing water; and the boan lary line of any surface outcrop of the seam.

MAP FOR EVERY SEAM. (d) A separate and similar map drawn to the same scale in all cases, shall be made of each and every seam, —14 C. R.

which, after the passage of this act, shall be worked in any mine, and the maps of all such seams shall show all shafts, inclined planes or other passageways connecting the same.

SEPARATE MAP FOR THE SURFACE. (e) A separate map shall also be made of the surface whenever the surface buildings, lines or objects are so numerous as to obscure the details of the mine workings if drawn upon the same sheet with them, and in such case the surface map shall be drawn upon transparent cloth or paper, so that it can be laid upon the map of the underground workings, and thus truly indicate the local relations of lines and objects on the surface to the excavations of the mine.

THE DIP. (f) Each map shall also show by profile drawing and measurements, in feet and decimals thereof, the rise and dip of the seam from the bottom of the shaft in either direction to the face of the workings.

Copies for Inspectors and Recorders. (g) The originals or true copies of all such maps shall be kept in the office at the mine, and true copies thereof shall also be furnished to the State Inspector of Mines for the district in which said mine is located, and shall be filed in the office of the recorder of the county in which the mine is located, within thirty days after the completion of the same. The maps so delivered to the inspector shall be the property of the State and shall remain in the custody of said inspector during his term of office, and be delivered by him to his successor in office; they shall be kept at the office of the inspector and be open to the examination of all persons interested in the same, but such examination shall only be made in the presence of the inspector, and he shall not permit any copies of the same to be made without the written consent of the operator or the owner of the property.

Annual Surveys. (h) An extension of the last preceding survey of every mine in active operation shall be made once in every twelve months prior to July 1 of every year, and the result of said survey, with the date thereof, shall be promptly and accurately entered upon the original maps and all copies of the same, so as to show all changes in plan or new work in the mine, and all extensions of the old workings to the most advanced face or boundary of said workings which have been made since the last preceding survey. The said changes and extensions shall be entered upon the copies of the maps in the hands of the said inspector and recorder within thirty days after the last survey is made.

ABANDONED MINES. (i) When any coal mine is worked out or is about to be abandoned or indefinitely closed, the operator of the same shall make or cause to be made a final survey of all parts of such mine, and the results of the same shall be duly extended on all maps of the mine and copies thereof, so as to show all excavations and the most advanced workings of the mine, and their exact relation to the boundary or section lines on the surface.

Special Survey. (j) The State Inspector of Mines may order a survey to be made of the workings of any mine, and the results to be extended on the maps of the same and the copies thereof, whenever,

in his judgment, the safety of the workmen, the support of the surface, the conservation of the property or the safety of an adjoining mine requires it.

Penalty for Failure. (k) Whenever the operator of any mine shall neglect or refuse, or, for any cause not satisfactory to the mine inspector, fail, for the period of three months, to furnish to the said inspector and recorder, the map or plan of such mine, or a copy thereof, or of the extensions thereto, as provided for in this act, the inspector is hereby authorized to make or cause to be made, an accurate map or plan of such mine at the expense of the owner thereof, and the cost of the same may be recovered by law from the said operator in the same manner as other debts by suit in the name of the inspector and for his use, and a copy of the same shall be filed by him with said recorder

#### THE MAIN SHAFT.

§ 2. SINKING SUBJECT TO INSPECTION. (a) Any shaft in process of sinking, and any opening projected for the purpose of mining coal shall be subject to the inspection of the State Inspector of Mines for the district in which said shaft or opening is located.

Passageway Around the Bottom. (b) At the bottom of every shaft and at every caging place therein, a safe and commodious passageway must be cut around said landing place to serve as a traveling way by which men or animals may pass from one side of the shaft to the other without passing under or on the cage.

Gates at the Top. (c) The upper and lower landings at the top of each shaft, and the opening of each intermediate seam from or to the shaft, shall be kept clear and free from loose materials, and shall be securely fenced with automatic or other gates, so as to prevent either men or materials from falling into the shaft.

GENERAL EQUIPMENT. (d) Every hoisting shaft must be equipped with substantial cages fitted to guide-rails running from the top to the bottom. Said cages must be safely constructed; they must be furnished with suitable boiler-iron covers to protect persons riding thereon from falling objects; they must be equipped with safety catches. Every cage on which persons are carried must be fitted up with iron bars or rings in proper place and sufficient number to furnish a secure hand-hold for every person permitted to ride thereon. At the top landing, cage supports, where necessary, must be carefully set and adjusted so as to act automatically and securely hold the cages when at rest.

#### THE ESCAPEMENT SHAFT.

§ 3. Two Places of Egress. (a) For every coal mine in this State whether worked by shaft, slope or drift, there shall be provided and maintained, in addition to the hoisting shaft, or other place of delivery, a separate escapement shaft or opening to the surface, or an

underground communicating passageway between every such mine and some other contiguous mine, such as shall constitute two distinct and available means of egress to all persons employed in such coal mine.

The time allowed for completing such escapement shaft or making such connections with an adjacent mine, as is required by the terms of this act, shall be three months for shafts 200 feet or less in depth, and six months for shafts less than 500 feet and more than 200 feet, and nine months for all other mines, slopes or drifts or connections with adjacent mines. The time to date in all cases from the hoisting of coal from the main shaft.

Unlawful to Employ More Than Ten Men. (b) It shall be unlawful to employ at any one time more men than in the judgment of the inspector is absolutely necessary, for speedily completing the connections with the escapement shaft or adjacent mine; and said number must not exceed ten men at any one time for any purpose in said mine until such escapement or connection is completed.

Passageways to Escapement. (c) Such escapement shaft or opening, or communication with a contiguous mine as aforesaid, shall be constructed in connection with every seam of coal worked in such mine, and all passageways communicating with the escapement shaft or place of exit, from the main hauling ways to said place of exit, shall be maintained free of obstruction at least five feet high and five feet wide. Such passageways must be so graded and drained that it will be impossible for water to accumulate in any depression or dip of the same, in quantities sufficient to obstruct the free and safe passage of men. At all points where the passageway to the escapement shaft, or other place of exit, is intersected by other roadways or entries, conspicuous sign boards shall be placed, indicating the direction it is necessary to take in order to reach such place of exit.

DISTANCE FROM MAIN SHAFT. (d) Every escapement shaft shall be separated from the main shaft by such extent of natural strata as may be agreed upon by the inspector of the district and the owner of the property, but the distance between the main shaft and escapement shaft, shall not be less than 300 feet without the consent of the inspector, nor more than 300 feet without the consent of the owner.

BUILDINGS ON THE SURFACE. (e) It shall be unlawful to erect any inflammable structure or building in the space intervening between the main shaft and the escapement shaft on the surface, or any powder magazine, in such location or manner as to jeopardize the free and safe exit of the men from the mine, by said escapement shaft, in case of fire in the main shaft buildings.

STAIRWAYS OR CAGES. (f) The escapement shaft at every mine shall be equipped with safe and ready means for the prompt removal of men from the mine in time of danger, and such means shall be a substantial stairway set at an angle not greater than forty-five degrees, which shall be provided with hand-rails and with platforms or landings at each turn of the stairway.

In any escapement shaft which may, at the time of the passage of this act, be equipped with a cage for hoisting men, such cage must be suspended between guides and be so constructed that falling objects can not strike persons being hoisted upon it. Such cage must also be operated by a steam hoisting engine, which shall be kept available for use at all times, and the equipment of said hoisting apparatus shall include a depth indicator, a brake on the drum, a steel or iron cable and safety catches on the cage.

Obstructions in Shaft. (g) No accumulation of ice, nor obstructions of any kind shall be permitted in any escapement shaft, nor shall any steam, or heated or vitiated air be discharged into said shaft; and all surface or other water which flows therein shall be conducted by rings or otherwise to receptacles for the same, so as to keep the stairway free from falling water.

Weekly Inspections. (h) All escapement shafts and the passage-ways leading thereto, or to the works of a contiguous mine, must be carefully examined at least once a week by the mine manager, or a man specially delegated by him for that purpose, and the date and findings of such inspection must be duly entered in the record book in the offices at the mine. If obstructions are found, their location and nature must be stated together with the date at which they are removed.

COMMUNICATION WITH ADJACENT MINE. (i) When operators of adjacent mines have, by agreement, established underground communication between said mines, as an escapement outlet for the men employed in both, the roadways to the boundary on either side shall be regularly patrolled and kept clear of every obstruction to travel by the respective operators, and the intervening door shall remain unlocked and ready at all times for immediate use.

When such communication has once been established between contiguous mines, it shall be unlawful for the operator of either mine to close the same without the consent both of the contiguous operator and of the State Inspector for the district: Provided, that, when either operator desires to abandon mining operations, the expense and duty of maintaining such communication shall devolve upon the party continuing operations and using the same.

#### THE ENGINE AND BOILER HOUSE.

§ 4. Location. (a) Any building erected after the passage of this act, for the purpose of housing the hoisting engine or boilers at any shaft, shall be substantially fire-proof, and no boiler house shall be nearer than sixty feet to the main shaft or opening or to any building or inflammable structure connecting therewith.

BRAKE ON DRUM. (b) Every hoisting engine shall be provided with a good and sufficient brake on the drum, so adjusted that it may be operated by the engineer without leaving his post at the levers.

FLANGES. (c) Flanges shall be attached to the sides of the drum of any engine used for hoisting men, with a clearance of not less than four inches when the whole rope is wound on the drum.

Cable Fastenings. (d) The ends of the hoisting cables shall be well secured on the drum, and at least two and a half laps of the same shall remain on the drum when the cage is at rest at the lowest caging place in the shaft.

INDICATOR. (e) An index dial or indicator, to show at all times the true position of the cages in the shaft, shall be attached to every hoisting engine for the constant information and guidance of the engineer.

Signals. (t) The code of signals as provided for in this act, shall be displayed in conspicuous letters at some point in front of the engineer when standing at his post.

Gauges. (g) Every boiler shall be provided with a steam gauge, except where two or more boilers are equipped and connected with a steam drum, properly connected with the boilers to indicate the steam pressure, and another steam gauge shall be attached to the steam pipe in the engine house, the two to be placed in such positions that both the engineer and firemen can readily see what pressure is being carried. Such steam gauges shall be kept in good order and adjusted and be tested as often at least as every six months.

SAFETY VALVES. (h) Every boiler or battery of boilers shall be provided with a safety valve of sufficient area for the escape of steam, and with weights and springs properly adjusted.

Inspection of Boilers. (i) All boilers used in generating steam in and about coal mines shall be kept in good order, and the operator of every coal mine where steam boilers are in use shall have said boilers thoroughly examined and inspected by a competent boiler-maker or other qualified person, not an employé, of said operator, as often as once in every six months, and oftener if the inspector shall deem it necessary, and the result of every such inspection shall be reported on suitable blanks to said inspector.

#### THE POWDER HOUSE.

§ 5. All blasting powder and explosive material must be stored in a fire-proof building on the surface, located at a safe distance from all other buildings.

#### THE STATE MINING BOARD.

§ 6. Manner and Purpose of Appointment. (a) For the purpose of securing efficiency in the mine inspection service, and a high standard of qualification in those who have the management and operation of coal mines, the State Commissioners of Labor shall appoint a board of examiners, to be known as the State Mining Board, whose duty it shall be to make formal inquiry into and pass upon the practical and technical qualifications and personal fitness of men seeking appointments as State Inspectors of Mines, and of those seeking certificates of competency as mine managers, as hoisting engineers and as mine examiners. This board shall be composed of

five members, two of whom shall be practical coal miners; one an expert mining engineer, and who shall, when practicable, be also a hoisting engineer, and two shall be coal operators.

Date and Term of Appointment. (b) Their appointment shall date from July 1, 1899, and they shall serve for a term of two years, or until their successors are appointed and qualified; they shall organize by the election of one of their number as president, and some suitable person, not a member, as secretary, after which they shall all be sworn to a faithful performance of their duties.

SUPPLIES FURNISHED BY SECRETARY OF STATE. (c) The Secretary or State shall assign to the use of the board suitably furnished rooms in the State House for such meetings as are held at the capitol, and shall also furnish whatever blanks, blank-books, printing and stationery the board may require in the discharge of its duties.

FREQUENCY OF MEETINGS. (d) The board shall meet at the capitol in regular session on the second Tuesday in September of the year 1899, and biennially thereafter, for the examination of candidates for appointment as State Inspectors of Mines. For the examination of persons seeking certificates of competency as mine managers, hoisting engineers and mine examiners, the board shall hold meetings at such times and places within the State as shall, in the judgment of the members, afford the best facilities to the greatest number of probable candidates. Special meetings may also be called by the Commissioners of Labor, whenever, for any reason, it may become necessary to appoint one or more inspectors. Public notice shall be given through the press or otherwise, announcing the time and place at which examinations are to be held.

Rules of Procedure. (c) The examinations herein provided for shall be conducted under such rules, conditions and regulations as the members of the board shall deem most efficient for carrying into effect the spirit and intent of this act. Such rules, when formulated, shall be made a part of the permanent record of the board, and such of them as relate to candidates shall be published for their information, and governance prior to each examination; they shall also be of uniform application to all candidates.

#### EXAMINATIONS.

§ 7. For Inspectors. (a) Persons coming before the State Mining Board as candidates for appointment as State Inspectors of Mines must produce evidence satisfactory to the board that they are citizens of this State, at least thirty years of age, that they have had a practical mining experience of ten years, and that they are men of good repute and temperate habits; they must also submit to and satisfactorily pass an examination as to their practical and technical knowledge of mining engineering and mining machinery and appliances, of the proper development and operation of coal mines, of ventilation in mines, of the nature and properties of mine gases, of the geology of the coal measures in this State and of the laws of this State relating to coal mines.

NAMES CERTIFIED TO THE GOVERNOR. (b) At the close of each examination for inspectors the board shall certify to the Governor the names of all candidates who have received a rating above the minimum fixed by the rules of the board as properly qualified for the duties of inspectors.

Inspectors Appointed. (c) From those so named the Governor shall select and appoint seven State inspectors of mines, that is to say, one inspector for each of the seven inspection districts provided for in this act, or more, if, in the future, additional inspection districts shall be created, and their commissions shall be for a term of two years from October first: Provided, that any one who has satisfactorily passed two of the State examinations for inspectors, and who has served acceptably as State Inspector for two full terms, upon making written application to the board setting forth the facts, shall also be certified to the Governor as a person properly qualified for appointment. But no man shall be eligible for appointment as a State Inspector of Mines who has any pecuniary interest in any coal mine, either as owner or employé.

FOR MINE MANAGERS. (d) Persons coming before the board for certificates of competency as mine managers must produce evidence satisfactory to the board that they are citizens of this State, at least twenty-four years of age, that they have had at least four years practical mining experience, and that they are men of good repute and temperate habits; they must also submit to and satisfactorily pass such an examination as to their experience in mines and in the management of men, their knowledge of mine machinery and appliances, the use of surveying and other instruments, the properties of mine gases, the principles of ventilation and the specific duties and responsibilities of mine managers, as the board shall see fit to impose.

For Hoisting Engineers. (e) Persons seeking certificates of competency as hoisting engineers must produce evidence satisfactory to the board that they are citizens of the United States, at least twenty-one years of age, that they have had at least two years experience as fireman or engineer of a hoisting plant, and are of good repute and temperate habits. They must be prepared to submit to and satisfactorily pass an examination as to their experience in handling hoisting machinery, and as to their practical and technical knowledge of the construction, cleaning and care of steam boilers, the care and adjustment of hoisting engines, the management and efficiency of pumps, ropes and winding apparatus, and their knowledge of the laws of this State in relation to signals and the hoisting and lowering of men at mines.

For Mine Examiners. (f) Persons seeking certificates of competency as mine examiners must produce evidence satisfactory to the board that they are citizens of this State, at least twenty-one years of age, and of good repute and temperate habits. They must be prepared to submit to and satisfactorily pass an examination as to their experience in mines generating dangerous gases, their practical and technical knowledge of the nature and properties of fire-damp, the

laws of ventilation, the structure and uses of the safety lamp, and the laws of this State relating to safeguards against fires from any source in mines.

#### CERTIFICATES.

§ 8. Issued by the Board. (a) The certificates provided for in this act shall be issued under the signatures and seal of the State Mining Board, to all those who receive a rating above the minimum fixed by the rules of the board; such certificates shall contain the full name, age and place of birth of the recipient, and the length and nature of his previous service in or about coal mines.

REGISTER TO BE PRESERVED. (b) The board shall make and preserve a record of the names and addresses of all persons to whom certificates are issued, and at the close of each examination shall make report of the same to the Commissioners of Labor, who shall cause a permanent register of all certificated persons to be made and kept for public inspection in the office of the State Bureau of Labor Statistics in the State capitol.

EFFECT OF CERTIFICATES. (c) The certificates provided for in this act shall entitle the holders thereof to accept and discharge the duties for which they are thereby declared qualified, at any mine in this

State, where their services may be desired.

Foreign Certificates. (d) The board may exercise its discretion in issuing certificates of any class, but not without examination, to persons presenting, with proper credentials, certificates issued by competent authority in other states.

Unlawful to Employ other than Certificated Mine Managers. (e) It shall be unlawful for the operator of any coal mine to employ, or suffer to serve, as mine manager at his mine, any person who does not hold a certificate of competency issued by a duly authorized Board of Examiners of this State: Provided, that whenever any exigency arises by which it is impossible for any operator to secure the immediate services of a certificated mine manager, he may place any trustworthy and experienced man, subject to the approval of the State Inspector of the district, in charge of his mine, to act as temporary mine manager for a period not exceeding thirty days.

UNLAWFUL TO EMPLOY OTHER THAN CERTIFICATED HOISTING ENGINEER. (f) It shall be unlawful for the operator of any mine to employ, or suffer to serve, as hoisting engineer for said mine, any person who does not hold a certificate of competency issued by a duly authorized Board of Examiners of this State, or permit any other to operate his hoisting engine except for the purpose of learning to operate it, and then only in the presence of the certificated engineer in charge, and when men are not being hoisted or lowered: Provided, that whenever any exigency arises by which it is impossible for any operator to secure the immediate services of a certificated hoisting engineer, he may place any trustworthy and experienced man, subject to the approval of the State Inspector of the district in charge of his engines, to act as temporary engineer, for a period not to exceed thirty days.

UNLAWFUL TO EMPLOY OTHERTHAN CERTIFICATED MINE EXAMINERS. (g) It shall be unlawful for the operator of any mine to employ, or suffer to serve, as mine examiner, any person who does not hold a certificate of competency issued by the State Mining Board: Provided, that any one holding a mine manager's certificate may serve as mine examiner. Any one holding a certificate as fire boss, on presentation of the same to the State Mining Board, may have it exchanged for a mine examiner's certificate.

CANCELLATION OF CERTIFICATES. (h) The certificate of any minemanager, hoisting engineer or mine examiner, may be cancelled and revoked by the State Mining Board whenever it shall be established to the satisfaction of said board that the holder thereof has become unworthy of official endorsement, by reason of violations of the law, intemperate habits, manifest incapacity, abuse of authority, or for other causes satisfactory to said board: Provided, that any person against whom charges or complaints are made shall have an opportunity to be heard in his own behalf. And he shall have thirty days notice in writing of such charges.

#### FEES FOR EXAMINATIONS.

§ 9. An applicant for any certificate herein provided for, before being examined, shall register his name with the secretary of the board, and file with him the credentials required by this act, to-wit: An affidavit as to all matters of fact establishing his right to receive the examination, and a certificate of good character and temperate habits signed by at least ten of the citizens who know him best in the place in which he lives.

Each candidate, before receiving the examination, shall pay to the secretary of the board the sum of one dollar as an examination fee, and those who pass the examination for which they are entered, before receiving their certificates, shall also pay to the secretary the further sum of two dollars each as a certificate fee. All such fees shall be duly accounted for by the board, and covered into the State treasury at the close of each fiscal year.

#### PAY OF THE BOARD.

§ 10. The members of the State Mining Board shall receive as compensation for their services the sum of five dollars each per day, for a term not exceeding one hundred days in any one year, and whatever sums are necessary to reimburse them for such traveling expenses as may be incurred in the discharge of their duties.

The salary of the secretary shall be determined by the board, but shall in no case exceed the sum of one thousand dollars per annum, and he shall be reimbursed for any amounts expended for actual and necessary traveling expenses in the discharge of his duties. All such salaries and expenses of the board and of its secretary shall be paid upon vouchers duly sworn to by each and approved by the president of the board and by the Governor, and the Auditor of Public Ac-

counts is hereby authorized to draw his warrants on the State Treasurer for the amounts thus shown to be due, payable out of any money in the treasury not otherwise appropriated.

#### INSPECTION DISTRICTS.

§ 11. BOUNDARIES DEFINED. (a) The State shall be divided into seven inspection districts, as follows:

The first district shall be composed of the counties of Boone, Mc-Henry, Lake, DeKalb, Kane, DuPage, Cook, LaSalle, Kendall, Grundy, Will, Livingston, and Kankakee.

The second district shall be composed of the counties of JoDaviess, Stephenson, Winnebago, Carroll, Ogle, Whiteside. Lee, Rock Island, Henry, Bureau, Mercer, Stark, Putnam, Marshall, Peoria, and Woodford.

The third district shall be composed of the counties of Henderson, Warren, Knox, Hancock. McDonough, Schuyler, Fulton, Adams, and Brown

The fourth district shall be composed of the counties of Tazewell, McLean, Ford, Iroquois, Vermilion, Champaign, Piatt, DeWitt, Macon, Logan, Menard, Mason, and Cass.

The fifth district shall be composed of the counties of Pike, Scott, Morgan, Sangamon, Christian, Shelby, Moultrie, Douglas, Coles, Cumberland, Clark, Edgar, Montgomery, Macoupin, Greene, Jersey, and Calhoun.

The sixth district shall be composed of the counties of Monroe, St. Clair, Madison, Bond, Clinton, Fayette, Marion, Effingham, Clay. Jasper, Richland, Crawford, and Lawrence.

The seventh district shall be composed of the counties of Washington, Jefferson. Wayne, Edwards, Wabash, White, Hamilton, Franklin. Perry, Randolph, Jackson, Williamson. Saline, Gallatin, Hardin, Pope, Johnson, Massac, Union, Alexander, and Pulaski.

How Changes May be Made. (b) Provided, that the Commissioners of Labor, may, from time to time, make such changes in the boundaries of said districts as may, in their judgment, be required in order to distribute more evenly the labors and expenses of the several inspectors of mines, but this provision shall not be construed as authorizing the board to increase the number of districts.

# CHANGES IN THE BOUNDARIES OF INSPECTION DISTRICTS OF THE STATE.

At a meeting of the Board of Commissioners of Labor held in June, 1999, under the provision of Section 11 of the mining law, the boundaries of the Second, Third, Fourth and Fifth Inspection Districts were changed and made as follows, to take effect July 1, 1899:

The Second District shall be composed of the counties of Jo Daviess, Stephenson, Winnebago, Carroll, Ogle, Whiteside, Lee, Rock Island, Henry, Bureau, Mercer, Stark, Putnam, Marshall, Henderson, Warren and Knox

The Third District shall be composed of the counties of Hancock, McDonough, Schuyler, Fulton, Peoria, Tazewell, Adams, Cass, Mason and Menard.

The Fourth District shall be composed of the counties of Woodford, McLean, Ford, Iroquois, Vermilion, Champaign, Platt, DeWitt, Macon, Logan, Christian, Shelby, Moultrie, Douglas, Edgar, Clark, Coles and Cumberland.

The Fifth District shall be composed of the counties of Brown, Pike, Scott, Morgan, Sangamon, Moutgomery, Macoupin, Green, Jersey and Calhoun.

The First, Sixth and Seventh Districts remain unchanged.

#### DUTIES OF INSPECTORS.

§ 12. Bond. (a) Those who receive appointment as State Inspectors of Mines must, before entering upon their duties as such, take an oath of office, as provided for by the constitution, and enter into a bond to the State in the sum of five thousand (5,000) dollars, with sureties to be approved by the governor, conditioned upon the faithful performance of their duties in every particular as required by this act; said bond, with the approval of the governor endorsed thereon, together with the oath of office, shall be deposited with the Secretary of State.

INSTRUMENTS. (b) For the more efficient discharge of the duties herein imposed upom them, each inspector shall be furnished at the expense of the State, with an anemometer, a safety lamp, and whatever other instruments may be required in order to carry into effect the provisions of this act.

Examinations of Mines. (c) State Inspectors of mines shall devote their whole time and attention to the duties of their office, and make personal examination of every mine within their respective districts, and shall see that every necessary precaution is taken to insure the health and safety of the workmen employed in such mines, and that the provisions and requirements of all the mining laws of this State are faithfully observed and obeyed and the penalties for the violation of the same promptly enforced.

AUTHORITY TO ENTER. (d) It shall be lawful for State Inspectors to enter, examine and inspect any and all coal mines and the machinery belonging thereto at all reasonable times by day or by night, but so as not to obstruct or hinder the necessary workings of such coal mine, and the operator of every such coal mine is hereby required to furnish all necessary facilities for making such examination and inspection.

PROCEDURE IN CASE OF OBJECTION. (d) If any operator shall refuse to permit such inspection or to furnish the necessary facilities for making such examination and inspection, the inspector shall file his affidavit, setting forth such refusal, with the judge of the circuit court in said county in which said mine is situated, either in term time or vacation, or, in the absence of said judge, with the master in chancery in said county in which said mine is situated, and obtain an order on such owner, agent or operator so refusing as aforesaid, commanding him to permit and furnish such necessary facilities for the inspection of such coal mine, or to be adjudged to stand in contempt of court and punished accordingly.

NOTICES TO BE POSTED. (f) The State Inspector of Mines shall post up in some conspicuous place at the top of each mine visited and inspected by him, a plain statement of the condition of said mine, showing what, in his judgment, is necessary for the better protection of the lives and health of persons employed in said mine; such state-

ment shall give the date of inspection and be signed by the inspector. He shall also post a notice at the landing used by the men stating what number of men will be permitted to ride on the cage at one time, and at what rate of speed men may be hoisted and lowered on the cages. He must observe especially that a proper code of signals between the engineer and top man and bottom man is established and conspicuously posted for the information of all employés.

SEALER OF WEIGHTS. (g) State Inspectors of Mines are hereby made ex-officio sealers of weights and measures in their respective districts, and as such are empowered to test all scales used to weight coal at coal mines. Upon the written request of any mine owner or operator, or of ten coal miners employed at any one mine, it shall be his duty to try and prove any scale or scales at such mine against which complaint is directed, and if he shall find that they, or any of them do not weigh correctly he shall call the attention of the mine owner or operator to the fact, and direct that said scale or scales be at once overhauled and readjusted so as to indicate only true and exact weights, and he shall forbid the further operation of such mine until such scales are adjusted. In the event that such tests shall conflict with any test made by any county sealer of weights, or under and by virtue of any municipal ordinance or regulation, then the test by such mine inspector shall prevail.

Test Weights. (h) For the purpose of carrying out the provisions of this act each inspector shall be furnished by the State with a complete set of standard weights suitable for testing the accuracy of tack scales and of all smaller scales at mines; said test weights to be paid for on bills of particulars, certified by the Secretary of State and approved by the Governor. Such test weights shall remain in the custody of the inspector for use at any point within his district, and for any amounts expended by him for the storage, transportation or hardling of the same, he shall be fully reimbursed upon making entry of the proper items in his quarterly expense voucher.

INSPECTORS' ANNUAL REPORTS. (i) Each State Inspector of Mines shall, at the close of the official year, to-wit: after June 30, of every year, prepare and forward to the Secretary of the Bureau of Labor Statistics a formal report of his acts during the year in the discharge of his duties, with any recommendations as to legislation he may deem necessary on the subject of mining, and shall collect and tabulate upon blanks furnished by said Secretary all desired statistics of mines and miners within his district to accompany said annual report.

REPORTS TO BE PUBLISHED. (j) On the receipt of said inspectors' reports the Secretary of the Bureau of Labor Statistics shall proceed to compile and summarize the same as a report of said bureau, to be known as the Annual Coal Report, which shall be duly transmitted to the Governor for the information of the General Assembly and the public. The printing and binding of said reports shall be provided for by the Commissioners of State Contracts in like manner and in like number as they provide for the publication of other official reports to the Governor.

The Secretary of State shall furnish to said inspectors, upon the requisition of the Secretary of the State Bureau of Labor Statistics, whatever instruments, blanks, blank books, stationery, printing and supplies may be required by said inspectors in the discharge of their official duties; said instruments to be paid for on bills of particulars, certified by the Secretary of State and approved by the Governor.

It shall be the duty of every coal operator and every employer of labor in this State to afford to the State Commissioners of Labor, or their representatives, every facility for procuring statistics of the wages and conditions of their employés for the purpose of compiling and publishing statistics of labor and of social and industrial conditions within the State as required by law. Any person who shall hinder or obstruct the investigation of the agents of the commissioners, or shall neglect or refuse, for a period of ten days, to furnish the information called for by the schedules of the commissioners as provided above, shall be adjudged guilty of a misdemeanor and be subjected to a fine of one hundred dollars.

#### PAY OF INSPECTORS.

§ 13. Each State Inspector of Mines shall receive as compensation for his services, the sum of eighteen hundred dollars per annum, and for his traveling expenses the sum actually expended for that purpose, in the discharge of his official duties, both to be paid quarterly by the State Treasurer, on warrants of the Auditor of Public Accounts, from the funds in the treasury not otherwise appropriated; said expense vouchers shall show the items of expenditures in detail, with sub-vouchers for the same so far as it is practicable to obtain them. Said voucher shall be sworn to by the inspector and be approved by the Secretary of the Bureau of Labor Statistics and the Governor.

#### REMOVAL OF INSPECTORS.

§ 14. Upon a petition signed by not less than three coal operators, or ten coal miners, setting forth that any State Inspector of Mines neglects his duties, or that he is incompetent, or that he is guilty of malfeasance in office, or guilty of any act tending to the injury of miners or operators of mines, it will be lawful for the Commissioners of Labor of this State to issue a citation to the said inspector to appear, at not less than fifteen days' notice on a day fixed, before them, when the said commissioners shall proceed to inquire into and investigate the allegations of the petitioners; and if the said commissioners find that the said inspector is neglectful of his duty, or that he is incompetent to perform the duties of said office, or that he is guilty of malfeasance in office, or guilty of any act tending to the injury of miners or operators of mines, the said commissioners shall declare the office of inspectors of said district vacant, and a properly qualified person shall be duly appointed, in the manner provided for in this act, to fill said vacancy.

#### COUNTY INSPECTORS.

§ 15. The County Board of Supervisors or of Commissioners in counties not under township organization, of any county in which coal is produced, upon the written request of the State Inspector of Mines for the district in which said county is located, shall appoint a County Inspector of Mines as assistant to such State inspector; but no person shall be eligible for appointment as county inspector who does not hold a State certificate of competency as mine manager, and the compensation of such county inspector shall be fixed by the county board at not less than three dollars per day, to be paid out of the county treasury.

The State inspector may authorize any county inspector in his district to assume and discharge all the duties and exercise all the powers of a State inspector in the county for which he is appointed, in the absence of the State inspector; but such authority must be conferred in writing and the county inspector must produce the same as evidence of his powers upon the demand of any person affected by his acts; and the bond of said State inspector shall be holden for the faithful performance of the duties of such assistant inspector.

#### DUTIES OF MINE MANAGERS AND MINERS.

§ 16. (a) The mine managers shall instruct employés as to their respective duties, and shall visit and examine the various working places in the mine as often as practicable. He shall always provide a sufficient supply of props, caps and timber delivered on the miners' cars at the usual place where demanded, as nearly as possible, in suitable lengths and dimensions for the securing of the roof by the miners, and it shall be the duty of the miner to properly prop and secure his place with materials provided therefor.

VENTILATION. (b) It shall be the duty of the mine manager to see that cross-cuts are made at proper distances apart to secure the best ventilation at the face of all working places, and that all stoppings along air-ways are properly and promptly built. He shell keep careful watch over all ventilating apparatus and the air-currents in the mine, and in case of accident to fan or machinery by which the currents are obstructed or stopped, he shall at once order the withdrawal of the men and prohibit their return until thorough ventilation has been re-established.

AIR-CURRENTS AND OUTLET PASSAGE-WAYS. (c) He shall measure or cause to be measured the air-current with an anemometer at least once a week at the inlet and outlet, and shall keep a record of such measurements for the information of the inspector. Once a week he shall make a special examination of the roadways leading to the escapement shaft or other opening for the safe exit of men to the surface, and shall make a record of any obstructions to travel he may encounter therein, together with the date of their removal.

Handling Explosives. (d) He shall give special attention to and instructions concerning the proper storage and handling of explosives in the mine, and concerning the time and manner of placing and discharging the blasting shots, and it shall be unlawful for any miner to fire shots except according to the rules of the mine. In dusty mines he must see that all hauling roads are frequently and thoroughly sprinkled. He must also see that all dangerous places, above and below, are properly marked, and that danger signals are displayed wherever they are required.

Care of Ropes, Cages, Etc. (e) The mine manager or superintendent must have special attention given to the condition of the hoisting ropes; they must be carefully and frequently scrutinized. Before the men are lowered in the morning the soundness of the ropes must be tested by hoisting the cages. He must also have the cages, safety catches, pumps, sumps and stables examined frequently; he must have the mine examined every morning by the mine examiner before the men are allowed to go to work, and know that the topman and bottom man are on duty, and that sufficient lights are maintained at the top and bottom landings when the men are being hoisted and lowered.

EARLY AND LATE DUTY. (f) The mine manager or his agent shall be at his post at the mine when the men are lowered into the mine in the morning for work; he shall by some device keep a record of the number of men lowered either for a day or night shift, and he or his agent shall remain at night until all the men employed during the day shall have been hoisted out.

May Have Assistants. (g) In mines in which the works are so extensive that all the duties devolving on the mine manager can not be discharged by one man, competent persons may be designated and appointed as assistants to the mine manager who shall exercise his functions, under his instructions.

#### DUTIES OF HOISTING ENGINEERS.

§ 17. CONSTANT ATTENDANCE. (a) The hoisting engineer at any mine shall be in constant attendance at his engine or boilers at all times when there are workmen underground.

OUTSIDERS EXCLUDED. (b) The engineer shall not permit any one to enter or loiter in the engine room, except those authorized by their position, or duties to do so, and he shall hold no conversation with any officer of the company or other person while the engine is in motion or while his attention is occupied with the signals. A notice to this effect shall be posted on the door of the eugine house.

Care of Engine and Boilers. (c) The engineer or some other properly authorized employé must keep a careful watch over the engine, boilers, pumps, ropes and winding apparatus. He must see that his boilers are properly supplied with water, cleaned and inspected at frequent intervals, and that the steam pressure does not exceed the limit established by the boiler inspector; he shall frequently try the safety valves and shall not increase the weights on

the same; he shall observe that the steam and water gauges are always in good order, and if any of the pumps, valves or gauges become deranged or fail to act he shall promptly report the fact to the proper authority.

Signals. (d) The engineer must thoroughly understand the established code of signals, and these must be delivered in the engine room in a clear and unmistakable manner, and when he has the signal that men are on the cage he must work his engine only at the rate of speed hereafter specified in this act.

HANDLING OF ENGINE. (c) The engineer shall permit no one to handle or meddle with any machinery under his charge, nor suffer any one who is not a certificated engineer to operate his engine, except for the purpose of learning to operate it, and then only in the presence of the engineer in charge, and when men are not on the cage.

#### DUTIES OF MINE EXAMINERS.

§ 18. To Enter and Examine all Places. (a) A mine examiner shall be required at all mines. His duty shall be to visit the mine before the men are permitted to enter it, and, first, he shall see that the air-current is traveling in its proper course and in proper quantity. He shall then inspect all places where men are expected to pass or to work, and observe whether there are any recent falls or obstructions in rooms or roadways, or accumulations of gas or other unsafe conditions. He shall especially examine the edges and accessible parts of recent falls and old gobs and air-courses. As evidence of his examination of all working places, he shall inscribe on the walls of each, with chalk, the month and the day of the month of his visit.

To Post Danger Notices. (b) When working places are discovered in which accumulations of gas, or recent falls, or any dangerous conditions exist, he shall place a conspicuous mark thereat as notice to all men to keep out, and at once report his finding to the mine manager.

No one shall be allowed to remain in any part of the mine through which gas is being carried into the ventilating current, nor to enter the mine to work therein, except under the direction of the mine manager, until all conditions shall have been made safe.

To Make Daily Record. (c) The mine examiner shall make a daily record of the conditions of the mine, as he has found it, in a book kept for that purpose, which shall be preserved in the office for the information of the company, the inspector and all other persons interested, and this record shall be made each morning before the miners are permitted to descend into the mine.

#### VENTILATION.

§ 19. Throughout every coal mine there shall be maintained currents of fresh air sufficient for the health and safety of all men and

animals employed therein, and such ventilation shall be produced by a fan, or some other artificial means.

AMOUNT OF AIR REQUIRED. (a) The quantity of air required to be kept in circulation and passing a given point shall be not less than 100 cubic feet per minute for each person and not less than 600 cubic feet per minute for each animal in the mine, measured at the foot of the downcast, and this quantity may be increased at the discretion of the inspector whenever, in his judgment, unusual conditions make a stronger current necessary. Said currents shall be forced into every working place throughout the mine, so that all parts of the same shall be reasonably free from standing powder smoke and deleterious air of every kind.

MEASUREMENTS. (b) The measurements of the currents of air shall be taken with an anemometer at the foot of the downcast, at the foot of the upcast, and at the working face of each division or split of the air-current. And a record of such measurements shall be made and preserved in the office, as elsewhere provided for in this act.

AIR CURRENTS TO BE SPLIT. (c) The main current of air shall be so split, or subdivided, as to give a separate current of reasonably pure air to every hundred men at work, and the inspector shall have authority to order separate currents for smaller groups of men, if, in his judgment, special conditions make it necessary.

VENTILATION OF STABLE. (d) The air current for ventilating the stable shall not pass into the intake air-current for ventilating the working parts of the mine.

Self-closing Doors. (e) All permanent doors in mines, used in guiding and directing the ventilating currents, shall be so hung and adjusted so as to close automatically.

TRAPPERS. (f) At all principal door-ways, through which cars are hauled, an attendant shall be employed for the purpose of opening and closing said doors when trips of cars are passing to and from the workings. Places for shelter shall be provided at such door-ways to protect the attendants, from being injured by the cars while attending to their duties.

Cross-cuts. (g) Cross-cuts shall be made not more than sixty feet apart, and no room shall be opened in advance of the air current.

STOPPINGS. (h) When it becomes necessary to close cross-cuts connecting the inlet and outlet air-courses in mines generating dangerous gases, the stoppings shall be built in a substantial manner with brick or other suitable building material laid in mortar or cement, if practicable, but in no case shall they be built of lumber except for temporary purposes.

AUTHORITY OF INSPECTOR. (i) Whenever the inspector shall find men working without sufficient air, he shall at once give the mine manager or operator notice and a reasonable time in which to restore the current, and upon his or their refusal or neglect to act promptly, the inspector may order the endangered men out of the mine.

#### POWDER AND BLASTING.

§ 20. No blasting powder or other explosives shall be stored in any coal mine, and no workingman shall have at any time more than one twenty-five pound keg of black powder in the mine, nor more than three pounds of high explosives.

Place and Manner of Storing. (a) Every person who has powder or other explosives in a mine, shall keep it or them in a wooden or metallic box or boxes securely locked, and said boxes shall be kept at least ten feet from the track, and no two powder boxes shall be kept within fifty feet of each other, nor shall black powder and high explosives be kept in the same box.

Manner of Handling. (b) Whenever a workman is about to open a box or keg containing powder or other explosive, and while handling the same he shall place and keep his lamp at least five feet distant from said explosive and in such position that the air current can not convey sparks to it, and no person shall approach nearer than five feet to any open box containing powder or other explosive with a lighted lamp, lighted pipe or other thing containing fire.

COPPER TOOLS. (c) In the process of charging and tamping a hole no person shall use any iron or steel pointed needle. The needle used in preparing a blast shall be made of copper and the tamping bar shall be tipped with at least five inches of copper. No coal dust nor any material that is inflammable or that may create a spark shall be used for tamping, and some soft material must always be placed next to the cartridge or explosive.

Use of Squibs. (d) A miner who is about to explode a blast with a manufactured squib shall not shorten the match, saturate it with mineral oil nor ignite it except at the extreme end; he shall see that all persons are out of danger from the probable effects of such shot, and shall take measures to prevent any one approaching, by shouting "fire!" immediately before lighting the fuse.

Not More than One Shot at a Time. (e) Not more than one shot shall be ignited at the same time in any one working place, unless the firing is done by electricity or by fuses of such length that neither of the shots will explode in less than three minutes from the time they are lighted. When successive shots are to be fired in any working place in which the roof is broken or faulty, the smoke must be allowed to clear away and the roof must be examined and made secure between shots.

Missed Shots. (f) No person shall return to a missed shot until five minutes have elapsed, unless the firing is done by electricity, and then only when the wires are disconnected from the battery.

DUSTY MINES. (g) In case the galleries, roadways or entries of any mine are so dry that the air becomes charged with dust, the operator of such mine must have such roadways regularly and thoroughly sprayed, sprinkled or cleaned, and it shall be the duty of the inspector to see that all possible precautions are taken against the occurrence of explosions which may be occasioned or aggravated by the presence of dust.

#### PLACES OF REFUGE.

§ 21. Engine Planes. (a) On all single track hauling roads wherever hauling is done by machinery, and on all gravity or inclined planes in mines, upon which the persons employed in the mine must travel on foot to and from their work, places of refuge must be cut in the side wall not less than three feet in depth and four feet wide, and not more than twenty yards apart, unless there is a clear space of at least three feet between the side of the car and the side of the road, which space shall be deemed sufficient for the safe passage of men

On every such road which is more than 100 feet in length a code of signals shall be established between the hauling engineer and all points on the road.

A conspicuous light must be carried on the front car of every trip or train of pit-cars moved by machinery, except when such trip is on an inclined plane.

MULE ROALS. (b) On all hauling roads or gangways on which the hauling is done by draft animals, or gangways whereon men have to pass to and from their work, places of refuge must be cut in the side wall at least two and a half feet deep, and not more than twenty yards apart; but such places shall not be required in entries from which rooms are driven at regular intervals not exceeding twenty yards, and whenever there is a clear space of two and one-half feet between the car and the rib, such space shall be deemed sufficient for the safe passage of men.

All places of refuge must be kept clear of obstructions, and no material shall be stored nor allowed to accumulate therein.

#### BOYS AND WOMEN.

§ 22. No boy under the age of fourteen years, and no woman, or girl of any age shall be permitted to do any manual labor in or about any mine, and before any boy can be permitted to work in any mine he must produce to the mine manager or operator thereof an affidavit from his parent or guardian or next of kin, sworn and subscribed to before a justice of the peace or notary public, that he, the said boy, is fourteen years of age.

#### SIGNALS.

§ 23. At every mine operated by shaft and by steam power, means must be provided for communicating distinct and separate signals to and from the bottom man, the top man and the engineer. The following signals are prescribed for use at mines where signals are required.

From the Bottom to the Top. One bell shall signify to hoist coal or the empty cage, and also to stop either when in motion.

Two bells shall signify to lower cage.

Three bells shall signify that men are coming up; when return signal is received from the engineer, men will get on the cage and the cager shall ring one bell to start.

Four bells shall signify to hoist slowly, implying danger

Five bells shall signify accident in the mine and a call for a stretcher.

Six bells shall call for a reversal of the fan.

From the Top to the Bottom. One bell shall signify: All ready, get on cage.

Two bells shall signify: Send away empty cage.

Provided, that the operator of any mine may, with the consent of the inspector, add to this code of signals in his discretion, for the purpose of increasing its efficiency or of promoting the safety of the men in said mine, but whatever code may be established and in use at any mine, must be conspicuously posted at the top and at the bottom and in the engine room for the information and instruction of all persons concerned.

### WEIGHING AND WEIGHMEN.

§ 24. Scales. (a) The operator of every coal mine where miners are paid by the weight of their output, shall provide at such mine suitable and accurate scales of standard manufacture for the weighing of such coal, and a correct record shall be kept of all coal so weighed, and said record shall be open at all reasonable hours to the inspection of miners and others interested in the product of said mine.

Weighman. (b) The person authorized to weigh the coal and keep the record as aforesaid shall, before entering upon his duties, make and subscribe to an oath before some person duly authorized to administer oaths, that he will accurately weigh and carefully keep a true record of all coal weighed, and such affidavit shall be kept conspicuously posted at the place of weighing.

CHECK WEIGHMAN. (c) It shall be permitted to the miners at work in any coal mine to employ a check-weighman at their option and at their own expense, whose duty it shall be to balance the scales and see that the coal is properly weighed, and that a correct account of the same is kept, and for this purpose he shall have access at all times to the beam box of said scales, and be afforded every facility for verifying the weights while the weighing is being done. The check-weighman so employed by the miners, before entering upon his duties, shall make and subscribe to an oath before some person duly authorized to administer oaths, that he will faithfully discharge his duties as check-weighman, and such oath shall be kept conspicuously posted at the place of weighing.

#### BOUNDARIES.

§ 25. Ten-foot Limit. (a) In no case shall the workings of any mine be driven nearer than ten feet to the boundary line of the coal rights pertaining to said mine, except for the purpose of establishing an underground communication between contiguous mines, as provided for elsewhere in this act.

APPROACHING OLD WORKS. (b) Whenever the workings of any part of a mine are approaching old workings, believed to contain dangerous accumulations of water or of gas, the operator of said mine must conduct the advances with narrow work, and maintain bore holes at least twenty feet in advance of the face of the work, and such side holes as may be deemed prudent or necessary.

#### NOTICE TO INSPECTORS.

- § 26. Immediate notice must be conveyed to the inspector of the proper district by the operator interested:
- First. Whenever an accident occurs whereby any person receives serious or fatal injury.
- Second. Whenever it is intended to sink a shaft, either for hoisting or escapement purposes, or to open a new mine by any process.
- Third. Whenever it is intended to abandon any mine or to reopen any abandoned mine.
- Fourth. Upon the appearance of any large body of fire damp in any mine, whether accompanied by explosion or not, and upon the occurrence of any serious fire within the mine or on the surface.
- Fifth. When the workings of any mine are approaching dangerously near any abandoned mine, believed to contain accumulations of water or of gas.
- Sixth. Upon the accidental closing or intended abandonment of any passageway to an escapement outlet.

#### ACCIDENTS.

§ 27. Duty of Inspector. (a) Whenever loss of life or serious personal injury shall occur by reason of any explosion, or of any accident whatsoever, in or connected with any coal mine, it shall be the duty of the person having charge of said mine to report that fact, without delay, to the inspector of the district in which the mine is located, and the said inspector shall, if he deem necessary from the facts reported, and in all cases of loss of life, immediately go to the scene of said accident and render every possible assistance to those in need.

It shall moreover be the duty of every operator of a coal mine to make and preserve for the information of the inspector, and upon uniform blanks furnished by said inspector, a record of all injuries sustained by any of his employés in the pursuance of their regular occupations.

CORONER'S INQUEST. (b) If any person is killed by any explosion, or other accident, the operator must also notify the coroner of the county, or in his absence or inability to act, any justice of the peace of said county, for the purpose of holding an inquest concerning the cause of such death. At such inquest the inspector shall offer such testimony as he may be possessed of, and may question or cross question any witness appearing in the case.

Investigation by Inspector. (c) The inspector may also make any original or supplemental investigation which he may deem necessary, as to the nature and cause of any accident within his jurisdiction, and shall make a record of the circumstances attending the same, and of the result of his investigations, for preservation in the files of his office. To enable him to make such investigation he shall have power to compel the attendance of witnesses, and to administer oaths or affirmations to them, and the cost of such investigations shall be paid by the county in which such accident has occurred, in the same manner as the costs of coroners inquests are paid.

#### MEN ON CAGES.

§ 28. Top Man and Bottom Man. (a) At every shaft operated by steam power, the operator must station at the top and at the bottom of such shaft, a competent man charged with the duty of attending to signals, preserving order, and enforcing the rules governing the carriage of men on cages. Said top man and bottom man shall be at their respective posts of duty at least a half hour before the hoisting of coal begins in the morning, and remain for half an hour after hoisting ceases for the day.

LIGHTS ON LANDINGS. (b) Whenever the hoisting or lowering of men occurs before daylight or after dark, or when the landing at which men take or leave the cage is at all obscured by steam or otherwise, there must always be maintained at such landing a light sufficient to show the landing and surrounding objects distinctly. Likewise, as long as there are men underground in any mine, the operator shall maintain a good and sufficient light at the bottom of the shaft thereof, so that persons coming to the bottom may clearly discern the cage and objects in the vicinity.

Speed of Cages and Other Regulations. (c) Cages on which men are riding shall not be lifted or lowered at a rate of speed greater than six hundred feet per minute, except with the written consent of the inspector. No person shall carry any tools, timber or other materials with him on a cage in motion, except for use in repairing the shaft and no one shall ride on a cage containing either a loaded or empty car. No cage having an unstable or self-dumping platform shall be used for the carriage of men or materials, unless the same is provided with some convenient device by which said platform can be securely locked, and unless it is so locked whenever men or materials are being conveyed thereon. No coal shall be hoisted in any shaft while men are being lowered therein.

RIGHTS OF MEN TO COME OUT. (d) Whenever men who have finished their day's work, or have been prevented from further work, shall come to the bottom to be hoisted out, an empty cage shall be given them for that purpose, unless there is an available exit by slope or by stairway in an escapement shaft, and providing there is no coal at the bottom ready to be hoisted.

#### SAFETY LAMPS.

§ 29. OPERATOR MUST FURNISH. (a) At any mine where the inspector shall find that fire-damp is being generated so as to require the use of a safety lamp in any part thereof, the operator of such mine, upon receiving notice from the inspector, that one or more such lamps are necessary to the safety of the men in such mine, shall at once procure and keep for use such number of safety lamps as may be necessary.

MINE MANAGER MUST CARE FOR. (b) All safety lamps used for examining mines and for working therein shall be the property of the operator, and shall remain in the custody of the mine manager or other competent person, who shall clean, fill, trim, examine and deliver the same, locked and in safe condition, to the men, upon their request, when entering the mine, and shall receive the same from the men at the end of their shift. But miners shall be responsible for the condition and proper use of safety lamps when in their possession.

#### STRETCHERS AND BLANKETS.

§ 30. At every mine where fifty men are employed underground it shall be the duty of the operator thereof to keep always on hand, and at some readily accessible place, a properly constructed stretcher, a woolen and waterproof blanket, and a roll of bandages in good condition and ready for immediate use for binding, covering and carrying any one who may be injured at the mine. When two hundred or more men are employed in any mine, two stretchers and two woolen and two waterproof blankets, with a corresponding supply of bandages, shall be provided and kept on hand. At mines where fire-damp is generated there shall also be provided and kept in store a suitable supply of linseed or olive oil, for use in case men are burned by an explosion.

## CAUTION TO MINERS.

§ 31. It shall be unlawful for any miner, workman, or other person knowingly or carelessly to injure any shaft, safety lamp, instrument, air course or brattice, or to obstruct or throw open any air-way, or carry any open lamp or lighted pipe or fire in any form into any place worked by the light of safety lamps, or within five feet of any open powder, or to handle or disturb any part of the hoisting machinery, or open any door regulating an air current and not close the same, or to enter any part of the mine against caution, or to use

other than copper needles and copper tipped tamping bars, or to disobey any order given in pursuance of this act, or to do any wilfull act whereby the lives or health of persons working in the mines or the security of the mine or the machinery thereof is endangered.

§ 32. It shall be the duty of every operator to post, on the engine house and at the pit top of his mine, in such manner that the employes in the mine can read them, rules not inconsistent with this act, plainly printed in the English language, which shall govern all persons working in the mine. And the posting of such notice, as provided, shall charge all employes of such mine with legal notice of the contents thereof.

#### PENALTIES.

§ 33. Any wilful neglect, refusal or failure to do the things required to be done by any section, clause or provision of this act, on the part of the person or persons herein required to do them, or any violation of any of the provisions or requirements hereof, or any attempt to obstruct or interfere with any inspector in the discharge of the duties herein imposed upon him, or any refusal to comply with the instructions of an inspector given by authority of this act, shall be deemed a misdemeanor punishable by a fine not exceeding five hundred dollars, or by imprisonment in the county jail for a period not exceeding six months, or both, at the discretion of the court: Provided, that in addition to the above penalties, in case of the failure of any operator to comply with the provisions of this act in relation to the sinking of escapement shafts and the ventilation of mines, the State's attorney for the county in which such failure occurs, or any other attorney, in case of his neglect to act promptly, shall proceed against such operator by injunction without bond, to restrain him from continuing to operate such mine until all legal requirements shall have been fully complied with.

Any inspector who shall discover that any section of this act, or part thereof, is being neglected or violated, shall order immediate compliance therewith, and in case of continued failure to comply, shall, through the State's attorney, or any other attorney, in case of his failure to act promptly, take the necessary legal steps to enforce compliance therewith through the penalties herein described.

If it becomes necessary, through the refusal or failure of the State's attorney to act, for any other attorney to appear for the State in any suit involving the enforcement of any provision of this act reasonable fees for the services of such attorney shall be allowed by the board of supervisors, or county commissioners, in and for the county in which such proceedings are instituted.

For any injury to person or property, occasioned by any wilful violations of this act, or wilful failure to comply with any of its provisions, a right of action shall accrue to the party injured for any direct damages sustained thereby; and in case of loss of life by reason of such wilful violation or wilful failure as aforesaid, a right of action shall accrue to the widow of the person so killed, his lineal heirs or adopted children, or to any other person or persons

who were, before such loss of life, dependent for support on the person or persons so killed, for a like recovery of damages for the injuries sustained by reason of such loss of life or lives, not to exceed the sum of five thousand dollars.

#### DEFINITIONS.

§ 34. Mine: (a) In this act the words "mine" and "coal mine," used in their general sense, are intended to signify any and all parts of the property of a mining plant, on the surface or underground, which contribute, directly or indirectly, under one management, to the mining or handling of coal.

EXCAVATIONS OR WORKINGS. (b) The words "excavations" and "workings" signify any or all parts of a mine excavated or being excavated, including shafts, tunnels, entries, rooms and working places, whether abandoned or in use.

SHAFT. (c) The term "shaft" means any vertical opening through the strata which is or may be used for purposes of ventilation or escapement, or for the hoisting or lowering of men and material in connection with the mining of coal.

SLOPE OR DRIFT. (d) The term "slope" or "drift" means any inclined or horizontal way, opening or tunnel to a seam of coal to be used for the same purposes as a shaft.

OPERATOR. (e) The term "operator" as applied to the party in control of a mine in this act, signifies the person, firm or body corporate who is the immediate proprietor as owner or lessee of the plant, and, as such, responsible for the condition and management thereof.

INSPECTOR. (f) The term "inspector" in this act signifies the State Inspector of Mines, within and for the district to which he is appointed.

MINE MANAGER. (g) The "mine manager" is the person who is charged with the general direction of the underground work, or both the underground and outside work of any coal mine, and who is commonly known and designated as "mine boss," or "foreman" or "pit boss."

MINE EXAMINER. (h) The "mine examiner" is the person charged with the examination of the condition of the mine before the miners are permitted to enter it, and who is commonly known, and has been designated in former enactments as the "fire-boss."

APPROVED April 18, 1899, in force July 1, 1899.

The following laws relating to the mining industry were not affected by the revision and continue in force:

#### MINERS TO BE PAID FOR ALL COAL MINED.

- ₹ 1. Miners to be paid in lawful money for | ₹ 2. Mine inspectors to investigate and enall coal mined.
  - force the law.
  - 3 3. Penalty for violation of this act.
  - An Act to provide for the payment of coal miners for all coal mined by them, and providing additional duties for mine inspectors.
- Section 1. Be it enacted by the People of the State of Illinois, represented in the General Assembly: That every person engaged in mining coal for any corporation, company, firm or individual, shall be paid in lawful money of the United States for all coal mined and loaded into the mine car by such person for such corporation, company, firm or individual, including lump, egg, nut, pea and slack, or such other grades as said coal may be divided into, at such price as may be agreed upon by the respective parties.
- § 2. It shall be the duty of the mine inspector to ascertain whether or not the provisions of section one of this act are being complied with in his district, and if he shall find that any corporation, company, firm or individual are violating the provisions of section one of this act, it shall be his duty to at once have instituted suit in the name of the People of the State of Illinois, in some court of competent jurisdiction, for the recovery of the penalty provided for in this act, and it shall be the duty of the State's attorney of the county in which such suit is brought, when notified by the mine inspector. to prosecute such suit as provided by law in other State cases.
- § 3. Every corporation, company, firm or individual violating the provisions of this act shall be fined not less than twenty-five nor more than two hundred dollars for each offense. [Approved June 3. 1897. in force July 1, 1897.

### MINERS-OUALIFICATION OF.

- 1. Miner desiring to work by himself in | 2 2. Penalty for violation of this act. mine must have two years experience.
- An Act in relation to the safety and the competency of coal miners. and to punish for infraction of the same
- Section 1. Be it enacted by the People of the State of Illinois, represented in the General Assembly: That from and after the passage of this act every person desiring to work by himself in rooms of coal mines in this State shall first produce satisfactory evidence to the mine manager of the mine in which he is employed, or desires to be employed, that he has worked at least two (2) years with or as a practical miner. Until said applicant has so satisfied the mine manager of the mine in which he seeks such employment of his competency, he shall not be allowed to mine coal, unless accompanied by some competent coal miner, until he becomes duly qualified.

§ 2. Any violation of section one (1) of this act shall work a forfeiture of the certificate of the manager of the mine where any such party or parties are employed. [Approved June 7, 1897, in force July 1, 1897.

#### OILS TO BE USED IN COAL MINES.

- 2 1a. Quality of oils to be used.
  - b Testing of oils, requirements.
  - c How gravity obtained.
  - d Allowances to be made.
  - e All barrels or packages to be branded.
  - f Other material may be used in place of
- 2 2a. Only oils described to be used.
  - b Operators and miners liable for using other oils, penalty.
  - c Quantity sold limited in five barrels, penalty.
  - d Violations of the law, how prosecuted. e Inspector's duties, information to be

An Act to prohibit the use of certain oits in coal mines, and penalties for infraction of same.

- Section 1. Be it enacted by the People of the State of Illinois, represented in the General Assembly: a That only pure animal or vegitable oil, or other oil as free from smoke as a pure animal or vegetable oil, and not the product or by-product of rosin, and which shall on inspection comply with the following test, shall be used for illuminating purposes in the mines of this State:
- b All such oil must be tested at 60 degrees Fahrenheit. The specific gravity of the oil must not exceed 24 degrees Tagliabue. The test of the oil must be made in a glass jar one and five-tenths inches in diameter by seven inches in depth. If the oil to be tested is below 45 degrees Fahrenheit in temperature, it must be heated until it reaches about 80 degrees Fahrenheit; and should the oil be above 45 degrees and below 60 degrees Fahrenheit, it must be raised to a temperature of about 70 degrees Fahrenheit, when, after being well shaken, it should be allowed to cool gradually to a temperature of 60 degrees Fahrenheit, before finally being tested.
- c In testing the gravity of the oil, the Tagliabue hydrometer must be, when possible, read from below, and the last line which appears under the surface of the oil shall be regarded as the true reading. In case the oil under test should be opaque or turbid, one-half of the capillary attraction shall be deemed and taken as the true reading.
- d Where the oil is tested under difficult circumstances, an allowance of one-half degree may be made for possible error in parallax before condeming the oil for use in the mine.
- e All oil sold to be used for illuminating purposes in the mines of this State shall be contained in barrels or packages branded conspicuously with the name of the dealer, the specific gravity of the oil, and the date of shipment.
- f It is provided, however, that any material that is as free from smoke and bad odor and of equal merit as an illuminant as a pure animal or vegetable oil may be used at the pleasure of mine operators and miners.

- § 2. a Any person or persons, firm or corporation which ships any oil contained in any barrel or barrels, package or packages, which are not branded as prescribed in section one of this act, said oil to be used for illuminating purposes in coal or other mines; and any person or persons, firm or corporation, which sells any oil other than that prescribed in section one, to be used for illuminating purposes in coal or other mines;
- b And any person or persons, firm or corporation having in charge the operation or running of any mine which, in a mine under his or its charge, uses or permits the use of any oil other than that prescribed in section one; and any miner or mine employé who uses, with a knowledge of its character, in any mine of this State, any oil other than that prescribed in section one of this act, shall be fined not less than five nor more than fifty dollars;
- c And any individual, firm, company or corporation which sells any oil other than that prescribed in section one of this act, in a quantity exceeding five barrels at one sale, to be used for illuminating purposes in coal or other mines, shall be fined not less than twenty-five nor more than one hundred dollars.
- d Justices of the peace shall have jurisdiction to try any violations of this act. Every person convicted of a second or other offense against this act, in addition to the fine before provided shall be sentenced to the county jail not less than ten days nor more than ninety days.
- e It shall be the duty of the inspector of mines in each district to notify the State's attorney of the respective county of any violations of the above provisions. And the State's attorney shall prosecute as in other cases of misdemeanors. [Approved April 30, 1895; in force July 1, 1895.]
- § 3. No claims made under this act shall be paid until after the expiration of the time in which to present such claims. And if the funds realized on the property seized be insufficient to pay the total claims presented, then such funds shall be prorated on such claims. [Approved June 21, 1895, in force July 1, 1895.

WAGES OF MINERS AND LABORERS AT COAL MINES LIENS ON ALL PROPERTY.

- § 1. All laborers or coal miners have lien on all property for labor performed, how secured.
  An Act to protect laborers and miners for labor performed in developing and working in coal mines.
- Section 1. Be it enacted by the People of the State of Illinois, represented in the General Assembly: That every laborer or miner who shall perform labor in opening and developing any coal mine, including sinking shafts, constructing slopes or drifts, mining coal and the like, shall have a lien upon all the property of the person, firm or corporation owning, constructing or operating such mine, used in the construction or operation thereof, including real estate,

buildings, engines, cars, mules, scales and all other personal property, for the value of such labor for the full amount thereof, upon the same terms, with the same rights and to be secured and enforced as mechanics' liens are secured and enforced. [Approved June 21, 1895, in force July 1, 1895.

#### WEIGHING COAL AT THE MINES.

- 1. Standard scales must be provided.
- 2a. All coal must be carefully weighed, correct record to be kept for inspection.
  - b Weighman, oath to be posted at scales.
- § 3a. Miners may employ check-weighman, duties and privileges.
  - b Check-weighman, qualifications, oath to be posted at scales.
- Construction of scales by any person for fraudulent weighing or recording or connivance therein by weighman, penalty.
- § 5. Penalties for failure to comply with law or obstructing its requirements.
- 2 6. Repealing clause.

An Act to provide for the weighing of coal at the mines, and to repeal a certain act therein named.

- SECTION 1. Be it enacted by the People of the State of Illinois, represented in the General Assembly: That the owner, agent or operator of every coal mine in this State at which the miners are paid by weight, shall provide at such mines suitable and accurate scales of standard manufacture, for the weighing of all coal which shall be hoisted or delivered from such mines.
- § 2. a All coal so delivered from such mines shall be carefully weighed upon the scales as above provided, and a correct record shall be kept of the weight of each miner's car, which record shall be kept open at all reasonable hours for the inspection of all miners or others pecuniarily interested in the product of such mine.
- b The person designated and authorized to weigh the coal and keep such record shall, before entering upon his duties, make and subscribe to an oath before some magistrate or other officer authorized to administer oaths, that he will accurately weigh and carefully keep a true record of all coal delivered from such mine, and such oath shall be kept conspicuously posted at the place of weighing.
- § 3. a It shall be lawful for the miners employed in any coal mine in this State to furnish a check-weighman at their own expense, whose duty it shall be to balance the scales and see that the coal is properly weighed, and that a correct account of the same is kept; and for this purpose he shall have access at all times to the beam box of said scale, and be afforded facilities for the discharge of his duties while the weighing is being performed.
- b The agent employed by the miners as aforesaid to act as checkweighman shall, before entering upon his duties, make and subscribe to an oath before some officer duly authorized to administer oaths,

that he will faithfully discharge the duties of check-weighman; such oath shall be kept conspicuously posted at the place of weighing. [As amended and approved June 16, 1891.]

- § 4. Any person, company or firm having or using any scale or scales for the purpose of weighing the output of coal at mines, so arranged or constructed that fraudulent weighing may be done thereby, or who shall knowingly resort to or employ any means whatsoever by reason of which such coal is not correctly weighed or reported in accordance with the provisions of this act, or any weighman or checkweighman who shall fraudulently weigh or record the weights of such coal, or connive at or consent to such fraudulent weighing and recording, shall be deemed guilty of a misdemeanor, and shall, upon conviction, for each offense be punished by a fine of not less than two hundred dollars (\$200) nor more than five hundred dollars (\$500), or by imprisonment in the county jail for a period not to exceed sixty (60) days, or by both such fine and imprisonment, proceedings to be instituted in any court of competent jurisdiction.
- § 5. Any person, owner or agent operating a coal mine in this State, who shall fail to comply with the provisions of this act, or who shall obstruct or hinder the carrying out of its requirements, shall be fined for the first offense not less than fifty dollars (\$50) nor more than two hundred dollars (\$200); for the second offense not less than two hundred dollars (\$200) nor more than five hundred dollars (\$500), and for the third offense not less than five hundred dollars (\$500), or to be imprisoned in the county jail not less than six months nor more than one year: Provided, that the provisions of this act shall apply only to coal mines whose product is shipped by rail or water.
- § 6. That an act entitled "An act to provide for the weighing of coal at the mines," approved June 14, 1883, in force July 1, 1883, as amended and approved June 29, 1885, in force July 1, 1885, be and the same is hereby repealed.

APPROVED June 16, 1887, in force July 1, 1887.



### ILLINOIS FREE EMPLOYMENT OFFICES.

1899.

Considerable space was devoted in the last biennial report of this Bureau to a review of the operation of free employment offices. In support of the demand for a law providing for such agencies in Illinois, particular reference was made to the effects of similar legislation in other states and foreign countries where the system had been adopted. Much valuable data was obtained, all of which emphasized not only the wisdom, but the increasing necessity of the State attempting through such means to meet and alleviate the varied wants of the unemployed. Some of the principal reasons urged in favor of the State assuming such functions, was the direct benefit to the community resulting from increased employment, without cost either to those requiring or desiring labor, and to protect those honestly seeking employment from the vicious practices of the private employment system, which, to all intents and purposes, has its counterpart only in the padrone and thrives by imposing upon the ignorance and necessities of the unemployed poor.

Investigation has revealed instances where creatures devoid of conscience have opened employment offices, and taken fees required for registration, without even pretending to secure employment. To the frequent eager inquiries of the robbed was repeated the same lie. Fortunately, all have not reached such villainous depths. In common justice to the modern pretentions of mankind, let it be said that the majority of private agents are willing to make some little effort in exchange for the last dollar of the applicant, and find no small measure of encouragement in the prospect that if successful in obtaining employment, they will later reap a rich reward through the well known method of graduated assessments upon the wages of

their victims. As a means of eradicating, or at least minimizing evils of this character, existing particularly in all great industrial centers, the last General Assembly of this State enacted the following law:

## ILLINOIS FREE EMPLOYMENT OFFICES.

- An Act to create free employment offices in cities of certain designated populations, and to provide for the maintenance, management and control of the same, and to prevent private imitations of the name of the same and regulating private employment agencies.
- Section 1. Be it enacted by the People of the State of Illinois, represented in the General Assembly: That free employment offices are hereby created as follows: One in each city of not less than fifty thousand population, and three in each city containing a population of one million or over, for the purpose of receiving applications of persons seeking to employ labor. Such offices shall be designated and known as Illinois Free Employment Offices.
- § 2. Within sixty days after this act shall have been in force, the State board of commissioners of labor shall recommend, and the Governor, with the advice and consent of the Senate, shall appoint a superintendent and assistant superintendent and a clerk for each of the offices created by section 1 of this act, and who shall devote their entire time to the duties of their respective offices. The assistant superintendent or the clerk shall in each case be a woman. The tenure of such appointment shall be two years, unless sooner removed for cause. The salary of each superintendent shall be \$1,200 per annum, the salary of such assistant superintendent shall be \$900 per annum. The salary of such assistant superintendent shall be \$900 per annum, which sums, together with proper amounts for defraying the necessary costs of equipping and maintaining the respective offices, shall be paid out of any funds in the State treasury not otherwise appropriated.
- § 3. The superintendent of each such free employment office shall, within sixty days after appointment, open an office in such locality as shall have been agreed upon between such superintendent and the secretary of the bureau of labor statistics as being most appropriate for the purpose intended; such office to be provided with a sufficient number of rooms or apartments to enable him to provide, and he shall so provide, a separate room or apartment for the use of women registering for situations or help. Upon the outside of each such office, in position and manner to secure the fullest public attention, shall be placed a sign which shall read in the English language, Illinois Free Employment Office, and the same shall appear either upon the outside windows or upon signs in such other languages as the location of such office shall render advisable. The superintendent of each such free employment office shall receive and record in books kept for that purpose names of all persons applying for employment or help, designating opposite the name and address of each applicant the character of employment or help desired. Separate registers for applicants for employment shall be kept, showing the age, sex,

nativity, trade or occupation of each applicant, the cause and duration of non-employment, whether married or single, the number of dependent children, together with such other facts as may be required by the bureau of labor statistics to be used by said bureau: Provided, that no such special registers shall be open to public inspection at any time, and that such statistical and sociological data as the bureau of labor may require shall be held in confidence by said bureau, and so published as not to reveal the identity of any one: And, provided, further, that any applicant who shall decline to furnish answers to the questions contained in special registers shall not thereby forfeit any rights to any employment the office might secure.

- 2 4. Each such superintendent shall report on Thursday of each week to the State bureau of labor statistics the number of applications for positions and for help received during the preceding week, also those unfilled applica tions remaining on the books at the beginning of the week. Such lists shall not contain the names or addresses of any applicant, but shall show the number of situations desired and the number of persons wanted at each specified trade or occupation. It shall also show the number and character of the positions secured during the preceding week. Upon receipt of these lists, and not later than Saturday of each week, the secretary of the said bureau of labor statistics shall cause to be printed a sheet showing separately and in combination the lists received from all such free employment offices; and he shall cause a sufficient number of such sheets to be printed to enable him to mail, and he shall so mail, on Saturday of each week, two of said sheets to each superintendent of a free employment office, one to be filed by said superintendent and one to be conspiciously posted in each such office. A copy of such sheet shall also be mailed on each Saturday by the secretary of the State bureau of labor statistics to each State inspector of factories and each State inspector of mines. And it is hereby made the duty of said factory inspectors and coal mine inspectors to do all they reasonably can to assist in securing situations for such applicants for work, and describe the character of work and cause of the scarcity of workmen, and to secure for the free employment offices the cooperation of the employers of labor in factories and mines. It shall be the duty of such factory inspectors and coal mine inspectors to immediately notify the superintendent of free employment offices of any and all vacancies or opportunities for employment that shall come to their notice.
- § 5. It shall be the duty of each such superintendent of a free employment office to immediately put himself in communication with the principal manufacturers, merchants and other employers of labor, and to use all difigence in securing the coöperation of the said employers of labor, with the purposes and objects of said employment offices. To this end it shall be competent for such superintendents to advertise in the columns of daily newspapers for such situations as he has applicants to fill, and he may advertise in a general way for the coöperation of large contractors and employers in such trade journals or special publications as reach such employers, whether such trade or special journals are published within the State of

Illinois or not: Provided, that not more than four hundred dollars or as much thereof as shall be necessary, shall be expended by the superintendent of any one such office for advertising any one year.

- § 6. It shall be the duty of each such superintendent to make report to
  the State bureau of labor statistics annually, not later than December first of
  each year, concerning the work of his office for the year ending October first
  of same year, together with a statement of the expenses of the same, including the charges of an interpreter when necessary, and such reports shall be
  published by the said bureau of labor statistics annually with its coal report.
  Each such superintendent shall also perform such other duties in the collection of statistics of labor, as the secretary of the bureau of labor statistics
  many require.
- § 7. No fee or compensation shall be charged or received, directly or indirectly, from persons applying for employment or help through said free employment offices; and any superintendent, assistant superintendent or clerk who shall accept, directly or indirectly, any fee or compensation from any applicant, or from his or her representative, shall be deemed guilty of a misdemeanor, and, upon conviction shall be fined not less than twenty-five nor more than fifty dollars and imprisoned in the county jail not more than thirty days.
- § 8. In no case shall the superintendent of any free employment office created by this act, furnish or cause to be furnished, workmen or other employes to any applicant for help whose employes are at that time on strike, or locked out; nor shall any list of names and addresses of applicants for employment be shown to any employer whose employes are on strike or locked out; nor shall such list be exposed where it can be copied or used by an employer whose employes are on strike or locked out.
- § 9. The term "applicant for employment" as used in this act shall be construed to mean any person seeking work of any lawful character, and "applicant for help" shall mean any person or persons seeking help in any legitimate enterprise; and nothing in this act shall be construed to sait the meaning of the term work to manual occupation, but it shall include professional service, and any and all other legitimate services.
- ₹ 10. No person, firm or corporations in the cities, designated in section 1, of this act, shall open, operate or maintain a private employment agency for hire, or where a fee is charged to either applicants for employment or for help, without first having obtained a license from the Secretary of State, which license shall be two hundred dollars per annum, and who shall be required to give a bond to the people of the State of Illinois in the penal sum of one thousand dollars, for the faithful performance of the duties of private employment agent; and no such private agent shall print, publish, or paint on any sign, window, or newspaper publication, a name similar to that of the Illinois Free Employment Offices. And any person, firm or corporation violating the provisions of this act, or any part thereof, shall be deemed guilty of a misdemeanor and upon conviction shall be fined not less than fifty nor more than one hundred dollars.

₹ 11. Whenever, in the opinion of the board of commissioners of labor, the superintendent of any free employment office is not duly diligent or energetic in the performance of his duties, they may summon such superintendent to appear before them and show cause why he should not be recommended to the Governor for removal, and unless such cause is clearly shown the said board may so recommend. In the consideration of such case an unexplained low percentage of positions secured to applicants for situations and help registered, lack of intelligent interest and application to the work, or a general inaptitude or inefficiency shall be considered by said board a sufficient ground upon which to recommend a removal. And if, in the opinion of the Governor, such lack of efficiency can not be remedied by reproval and discipline, he shall remove as recommended by said board: Provided, that the Governor may at any time remove any superintendent, assistant superintendent or clerk for cause.

§ 12. All such printing, blanks, blank books, stationery and postage as may be necessary for the proper conduct of the business of the offices herein created shall be furnished by the Secretary of State upon requisition for the same made by the secretary of the bureau of labor statistics.

APPROVED April 11, 1899. In force July 1, 1899.

By the provisions of Section 1 of the Act, free offices are confined to cities containing fifty thousand population, and authorizing three offices in each city containg one million population or over. This provision limits, for the present, the operation of such agencies to the City of Chicago. When the forthcoming census is taken, probably other cities in the State will show the necessary population entitling them to a free employment office. Aside from the many requirements of the law which are common to similar enactments of other states, some new and important features are added. Attention is particularly directed to the provisions of Sections S and 10. In the former, the superintendent is prohibited from exhibiting any list of names and addresses of applicants for employment, to any employer whose workmen are on strike or locked out. This provision was inserted from a consideration of the rights of organized labor, and justly estops the State from becoming an agency in the hands of designing men, for the purpose of reducing wages. By the latter section, all persons, firms or corporations conducting a private agency for hire, are required to file a bond and pay a fee of \$200 per annum. It was believed that the effect of this provision would permit only the more reputable concerns to operate, and that they ultimately would disappear as a result of the free agencies.

As required by Section 2 of the law the commissioners of labor recommended and the governor appointed the following named persons for the respective positions:

North Side office, Wm. E. Goodman, Supt.; Thomas Devinish, Asst. Supt.; Mrs. J. C. Schaufel, Clerk.

South Side office, George W. Geary, Supt.; John Felker, Asst-Supt.; Miss Margaret E. May, Clerk.

West Side office, F. E. Erickson Supt.; P. J. Meaney, Asst. Supt.; Miss Mary Henneberry, Clerk.

In conformity with the provisions of the law herein referred to, the Secretary of this Bureau, in conjunction with the Superintendents and their assistants, selected the following locations as being the most suitable to conduct the business of the free employment offices:

North Side, 234 Chicago avenue.

South Side, 44 Congress street.

West Side, 28 Ogden avenue.

These offices were opened with appropriate ceremonies August 2, 1899. Anticipating that the ordinary demands on such agencies in the City of Chicago would exceed those of any city where similar work had been undertaken, provision was made in the law for two assistants to the Superintendent. Experience early demonstrated that the help provided was inadequate to perform the work and keep the detailed records required. Extra help was temporarily assigned, and very much to the regret of those charged with the preparatory work, some of the records and forms were reduced in order to bring the offices more nearly within their respective appropriations. In view of the unexpected volume of business, the amounts allowed by the legislature for the maintenance of the respective offices should have been more than doubled. Under the circumstances a deficit can not be avoided if the departments are to continue, and the friends of this latest humanitarian departure must look to the next General Assembly to make good the shortage, presenting as a sufficient reason for the granting of the request, the splendid results of their brief existence.

Section 6 of the law requires each superintendent to make report to the Bureau annually, not later than December 1, of each year, concerning the work of his office for the year ending October 1, of the same year, with a statement of the expenses of the same; said reports to be published by the Bureau in connection with its annual Coal Report. On account of the date on which these offices were opened, this report is but a partial one, covering only a period of nine weeks from August 2 to October 1, 1899, but is designated as the First Annual Report. From the returns made by the superintendents, it is shown that the following number of applications for employment were filed in each of the offices, to October 1, 1899:

Table I.—The Combined Business of the Three Offices for Nine Weeks, August 2 to October 1, 1899.

	FOR	PPLICATIO EMPLOYM	NS IENT.	APPLIC	ATIONS HELP.
Offices.	Number Filed.	Number of Posi- tions Secured.		Number Filed.	
North Side Office—Males	2,909	1, 189	1,720	2,688	1,499
North Side Office-Females	989	823	166	1,339	516
Totals	3,898	2,012	1,886	4,027	2, 618
South Side Office—Males	4,350	1, 705	2,645	2,514	808
South Side Office-Females	1,331	1, 150	181	1,751	601
Totals	5,681	2,855	2,826	4,265	1,410
West Side Office-Males	2,566	858	1,708	901	48
West Side Office-Females	952	772	180	1,177	405
Totals	3.518	1,630	1,888	2,078	445
Three offices, 9 weeks—Males	9,825	3, 752	6,073	6, 103	2,351
Three offices, 9 weeks-Females	3, 272	2,745	527	4,267	1,522
Grand totals	13,097	6,497	6,600	10,370	3,873

From this table it will be observed that during the brief period embraced by the report there were received at all of the offices 9,825 applications for male, and 3,272 for female employment, a total of 13,097. During the same time the number of applications for help filed were, for males, 6,103; females, 4,267, a total of 10,370.

It is further shown that of the applications for employment, 3,752 males and 2,745 females, or a total of 6.497, obtained situations through the agencies. The number of applications of both sexes for labor exceeds by 2,727 the applications for help, while the number furnished with positions is less by 3.873 than the entire number of those applying for help. This presents, on the one hand, a surplus of labor, and on the other, the evident inability of the offices to completely furnish all the kinds of labor required. By far the greatest per cent of applications for labor unprovided for relates, as the superintendents reports show, to positions of a somewhat confidential nature, as clerks, watchmen, and others of a similar class. Of the entire number of male applications for employment, 38.2 per cent secured positions: while 62 per cent of all applications for male

help were filled. Of the applications for female labor 84 per cent secured situations, and 64.3 per cent of all applications for help of this class were filled.

Combining both male and female applications for employment, it is shown that 50 per cent have been supplied with positions, and of all applications for help 62.7 per cent have been filled.

Measured by the work performed, the South Side office ranks first, due principally to the fact of its location in the central or business section of the city. Compared with the North Side office, it received, during the nine weeks here considered, 1,783 more applications for employment of all kinds, and furnished 843 more situations. Of the 4,027 applications for help received during this period at the North Side office, 2,015 remained unfilled, while of the 4,265 similar applications made at the South Side office, but 1,410 remained unfilled. The per cent of places secured through the West Side office is about equal to that of the others, although the number registering for employment is considerably less. Of the total applications for employment, positions were obtained for 51 per cent at the North and South Side offices; the West Side office secured places for 46 per cent of those applying for employment.

In the following table of percentages is reported the positions secured and help furnished through each, and for all the offices.

Table II.—Percentages of Positions Secured and Help Furnished, Both Male and Female.

	PERCEN SECURED	TAGES OF P APPLICANT PLOYMENT	s for Em-	PERCENTAGES OF HELP FURNISHED APPLICANTS.			
Offices.	Male.	Female.	Both male and female.	Male.	Female.	Both male and female.	
North Side	40.9	83.2	51.6	44.2	61.5	49.5	
South Side	39.2	86.4	50.3	67.8	65.7	66.9	
West Side	33.4	81.1	46.3	95.2	65.6	78.4	
The three offices	38.2	83.9	49.6	61,5	64.3	62,	

The compensation paid to applicants of both sexes furnished employment, whether by the day, week or month, appears in the table following:

Table III.—Average Wages Paid to Applicants Furnished Employment by the Three Offices, August 2 to October 1, 1899.

## MALES.

	Wages.							
Character of Occupations.	Per day.	Per week,	Per month.					
gentsrchitects	į	t t	1					
rehitects		\$16 to \$20						
akers arbers arnmen	\$1.60	S to 14	*015 200 005 0					
arbers	2.00	7 to 12	**** *** **** ***					
arnmen			*815, 820, 825, 8					
artenders jeyele workers		6 to 12	**					
deyele workers		9 to 12						
ieyele workers iil elerks lacksmiths lacksmith helpers oldermakers ookbinders ookkepers oox makers rass fuishers ricklayers utlers utlers an wassers ar suilders	0 0 0 0 0 0 5	0.10 9						
Independent holoope	1.20,2 30,3.30							
oilermekere	9 95 to 3 00							
ookhinders	\$1.20 to 5.00	S to 19						
ookbinders		J 10 12	40 to					
lov makers	1.75 to 2.25		40 40					
rass finishers	2.50 to 3.00							
ricklayers	4.00							
nggy washers			25 to					
utchers		5 to 12						
utlers		6 to 10	*					
anvassers	±	†16	1					
ar builders	2.10							
utters anvassers ar builders ar cleaners andy makers arpenters ashiers lerks lerks and salesmen oal heavers	1.60							
andy makers		8 to 12						
arpenters	2.10, 2.30, 2.50							
ashiers		8 to 12						
lerks		5 to 15						
lerks and salesmen		6 to 12						
oal heavers oachmen	1.75		*************					
oachmen	• • • • • • • • • • • • • • • • • • • •		*20, 25.					
ollectors		5 to 10						
00KS	4 6-1-	5,6 to 12						
onductors	1.56-2	* 1 5 C to 7						
Ashwashers		15 to 95						
hill proce mon	1 60	10 10 20						
histore	1.50							
Progricte clarks	1.30	6 to 10						
lactricions		S to 15						
levator men		6 to 9	37 to					
ngineers			25, 40, 60,					
rrand boys		3, 4, 5, 6						
xpress messenger								
actory hands		5 to 12						
lorists		S to 12						
arm hands			*15 to					
olders		6 to 8						
iremen			25 to					
ardners		9	*					
od carriers	2.00							
.ousemen		3 to 6	^10 to					
on workers	2.00, 2.50, 3.50							
anitors	• • • • • • • • • • • • • • • • • • • •		20, 30, 40,					
itenen work		3.50 to 6	~12 (0					
aborers	1.25, 1.50, 2.00, 2, 25		90.40					
aunarymen	••••••	.,	20 10					
ime mixer	9 95 40 2 00	10 to 15						
arabante	2.23 (0 3.00	N to 15						
older helpere	1.50 to 9.00	5 (0 15						
otermen	9 10							
olders	2.50 to 3.00							
nrese	≥.50 (0 8.00	8 10 to 15						
ilers		7 to 10						
ackers		5 to 10						
ierks and salesmen oad heavers oachmen ollectors obes obes obes obes obes obes obes obe	2.00, 2.50 to 3.00							
aner hangers	2.00 to 3.00							

# Average Wages Paid.—Table III.—Concluded. Males-Concluded.

		WAGES.		
Character of Occupations.	Per day.	Per week.	Per month.	
Plumbers. Oli shers Orters Orters Pressmen Printers tailroad men alesmen hipping clerk olicitors tean fitters tenographers 'ailors 'eamsters. 'imekeepers 'insmiths ruckmen pholsterers. egetable men 'ise hands 'Vaiters. Vaiters. Vaiters. Vaiters. Void finishers Vood finishers Vood finishers Vood workers	1.75 to 2.25 3.25 to 4.00 2.00.2.75, 3.25 1.50	** to 5,9,10 8 to 12,15 9 to 15 9 to 15 9 to 15  ** to 15  ** S to 15  ** S to 15  ** S to 15  ** S to 12  ** to 16  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 12  ** to 14	\$30 to 10	

## FEMALES.

	WAGES.							
Character of Occupations.	Per day.	Per week.	Per month.					
Addressers Barbers Barbers Barbers Barbers Sanvassers Sanvassers Sashiers Cooks Cooks Opyists Day workers Dressmakers Dressmakers Dressmakers Dressmakers Housekeepers Housekeepers Housework Santresses Stitchen work Ady's maid Aundresses Nurses Saleswomen Serubwomen Serubwomen Stenographers Lenographers Lenographers Lenographers Peachers Suriesses Stenographers Peachers	1.00 to 1.50	** 8 to 12 T t	20 to 3					

<sup>\*</sup> With board, \$3.00 to \$4.00 per week. † With board and room.

<sup>\*</sup> With board. †With commissions.

Commissions. Twenty-five cents per hour.

<sup>‡</sup> In private family with board and room. ¿ Commissions.

Some idea of the diverse character of the service seeking employment will be gathered from the following tables, which gives in detail the number of applications filed for male and female labor at all of the offices, and the number and character of positions secured.

Table IV.—Showing the combined work of the three offices; applications for emptoyment filed and employment secured. Nine weeks, August 2 to October 1, 1899.

## MALES.

		ICATION YMENT				PLOYMI ECUREI		Total.
CHARACTER OF OCCUPATIONS.	North Side Office.	South Side Office.	West Side Office.	Total.	North Side Office.	South Side Office.	West Side Office.	
Agents		2	3					
Any occupation			49				6	
Apprentices			49	49			5	
Architects	3	1		4				
Auctioneers			1	20				
Bakers	19	8 23		30		2	1 3	
BarbersBarnmen	24			121		55		
Bartenders	31	50		108				i
Bell boys	2	1 30	4			. 0	1	, 1
Bicycle workers	6	5						
Bill clerks	·	23		21		2		
Blacksmiths	14	24		54	11	- 2	2	1
Blacksmith helpers	2			2	1			_
Boiler makers	2	1		3				
Bookbinders	2	ī	2	5				
Bookkeepers	46	89		150				
Boxmakers	2	. 2	2	6				
Brass finishers		1	1	2				
Bricklayers	3	10				4		
Butchers	16	9				2	6	
Butlers	2	8		10	1	2		
Cabinet makers	1		1	2				
Can makers	1			1				
Candy makers	13	1 0		21				
Car builders	10			-1				1
Car cleaners								
arpenters	48	59	62	169	13	5	6	
arriage washers				7		2		
Cash boys			î	i				
Cashiers		24	2	26		1		
hefs								
ligarmakers	3		2					
Circular distributors			2	2			1	
Clerical work			149				2	
Çlerks					21	2		2
oachmen	37		25	104			- 6	1
oal heavers								1
'oal miners			1					
'oal weighers		15	34				1	
Collectors	: :		34				1	
on panions	49		25	171		52	13	
'oopers		91	1	1/1				•
Conductors			4	1				
ore makers			3	1				
upola tenders			9	2			1	
Dishwashers	41	74	- 1	122	10	90	6	7
Oraughtsmen	1	19	. 1	1-4	****			
Orill press men	13		7	20				
Drivers				115				

## Work of the Three Offices—Table IV—Continued.

	APPLI EMPLO	CATION:	s for Filed.			PLOYME ECURED		
CHARACTER OF OCCUPATIONS.	North Side Office.	South Side Office.	West Side Office,	Total.	North Side Office.	South Side Office.	West Side Office.	Total.
Drug cierks		33		33				
Druggists	3	75	4	7.5				
Dry goods clerks	1	13		1				
Electricians	14	31	15	60		1	1	2
Electrical linemen Electrotypers	2			2				
Elevator men	24	76	21	121	6	16	2	24
Engineers	49	103	66	218	7	11		18
Errand boys	45	162 1		282	24	37	7	68
Errand boys Express messenger Factory hands	96	10		200	10			10
Farm hands	83	101	58	242	83	13	28	111
Firemen	57 1	61	50	168	11	13	1	25
Florists. Flouring mill hands			1					
Folders		1	<u>-</u>	1				
Foremen			1	7				
Foundry men Furnace tender							1	1
Gardeners	7	1	2	10	-1	1		2 3 2
Grocery clerks		67		67		3		9
Harness makers			1	1				_
Hod carriers		1		1		3		3
Hostlers			22 13	22			18	18
Housemen	86	130		279	71	36	35	142
Housemen	1				<u>.</u>			<u>.</u>
lron workers	10 112	229	98	16 439	9	14	13	36
Kitchen work	12	32	5	49	18	8	4	30
Laborers	730	1,302	439	2,471	534	1,089	547	2,170
Laundry men	12		4	18	5	9	·····i	8
Locksmiths	1		5	6				
Machine hands	16	6		22 252	12	is		32
Machinists	113	59	80	202		15		
Merchants		7						1
Metal workers	2					1		
			7	9		1		
Molders helpers	1 2	3		9	2 1			2
Mot: rmen	1 2 2	3 1			2 1			2
Music teachers Nickel platers	1 2 2 3	Ĭ		4 3 2 3	2 1			2 1
Motarmen. Music teachers Nickel platers. Nurses	1 2 2 3 4		5	3 2 3 31	2 1	6	1	2
Mot: rmen. Music teachers. Nickel platers. Nurses Oilers. Orean builders.	2 2 3 4 11	22 2	5 2	31 31 4	1	1		2 1
Mot: rmen. Music teachers. Nickel platers. Nurses Oilers. Organ builders. Packers	2 2 3 4 11 10	22 2 2	5 2	3 2 3 31 4 11 67	1	12	4	2 1 1 8 1
Motermen Music teachers Nickel platers Nickel platers Oilers Oilers Organ builders Packers Painters	2 2 3 4 11	22 2 2	5 2 24 58	31 31 4 11 67 154	1 7	1	4 9	8 1 16 24
Mot; men. Music teachers Nickel platers Nurses Oilers Organ builders Packers Pachers Painters Paper hangers Photographers	2 2 3 4 11 10 43	22 2 2 33 53	5 2 24 58 3	31 31 4 11 67 154 9	1	12	4 9 2	2 1 8 1 16 24 4
Mot: rmen. Music teachers Nickel platers Nirses Ollers. Organ builders Packers Paper hangers Photographers Plasteres. Plasteres.	2 2 3 4 11 10 43 1	22 22 2 33 53 6 6 5	5 2 24 58 3 1 4	31 31 4 11 67 154 9	1	12	4 9	2 1 8 1 16 24
Mot; men. Music teachers Nickel platers Nurses Oilers Organ builders Packers Painters Paper hangers Photographers Plasterers Plasterers Plumbers	2 2 3 4 11 10 43 1	22 22 23 53 53 65	5 24 58 3 1 4 4	31 31 4 11 67 154 9	1	12	4 9 2 1	8 1 16 24 4
Mot. rmen. Music teachers Nickel platers Nurses Oilers. Organ builders Packers Painters Paper hangers Photographers Plasterers Plumbers Polishers Porters.	11 10 43 11 14 6 98	22 2 2 33 53 6 6 5	52 24 58 3 1 4 4	31 31 4 11 67 154 7 5 25 27 297	1 7	12 8 2 2	4 9 2 1	8 1 16 24 4
Mot. rmen. Music teachers Nickel platers Nirses Oilers. Organ builders. Packers Painters Paper hangers Photographers Plasterers Plumbers Polishers Porters	2 2 3 4 4 	22 22 23 53 53 65 5 7 11 146	55 24 58 31 14 4	3 3 31 4 11 67 154 9 7 5 25 17 297	1	12 8 2 2 71	4 9 2 1	2 1 
Mot. rmen. Music teachers Nickel platers Nirses Oilers. Organ builders. Packers Painters Paper hangers Photographers Plasterers Plumbers Polishers Porters	11 10 43 11 14 6 98	22 2 2 33 53 6 6 5	52 24 58 3 1 4 4 4 53	31 31 44 11 154 99 7 7 7 7 7 5 25 25 25 27 13 5 3 6	1	12 8 2 2	4 9 2 1	8 1 16 24 4
Mot. rmen. Music teachers Nickel platers Nirses Oilers. Organ builders Packers Painters Paper hangers Photographers Plasterers Plumbers Polishers Porters Pressmen Printers Punch press hands. Railroad laborers.	2 2 3 4 4 	222 2 23 333 53 6 5 7 11 146 3 12	52 24 58 3 1 4 4 4 53	31 31 44 11 154 99 7 7 7 7 7 5 25 25 25 27 13 5 3 6	1	12 8 2 2 71	1 29	8 1 16 24 4 1 1 141 2 2 2
Mot. rmen. Music teachers. Nickel platers. Nurses Oilers. Organ builders. Packers. Paper hangers Photographers Plasterers. Polishers Poilshers Porters. Pressmen Printers. Punch press hands. Railroad laborers. Railroad men.	2 2 3 4 4	22 22 2 33 53 6 5 7 11 146 3 12	55 24 58 3 1 4 4 4 53 53 24 6 20	3 3 3 31 11 67 154 154 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1	71 71 71 2	1 29 29	8 1 16 24 4 1 1 141 2 2 1 10 10 10 10
Mot. rmen. Music teachers Nickel platers Nirses Oilers. Organ builders Packers Painters Paper hangers Photographers Plasterers Plumbers Polishers Porters Pressmen Printers Punch press hands Railroad laborers Railroad men Salesmen	2 2 3 4 4 	22 22 2 33 53 6 5 7 11 146 3 12	52 58 58 31 44 44 53 53 24 66 200 9	3 3 3 31 41 11 67 55 25 25 27 297 297 297 297 297 297 297 297 297	27	71 28 29 71 1 2	29 29 3 3 5	8 1 16 24 4 4 1 1 141 2 2 2 1 10 366
Mot. rmen. Music teachers Nickel platers Nickel platers Nirses Oilers. Organ builders Packers Packers Paper bangers Paper bangers Photographers Plasterers. Plumbers Polishers Porters Porters Pressmen Printers Punch press hands Railroad laborers Railroad men Salesmen Salesmen Salesmen	2 2 2 3 4 4 11 10 43 1 1 1 1 4 6 98 10 17 17 26 7 7	22 22 2 33 53 6 5 7 11 146 3 12	5 2 2 4 5 8 3 1 4 4 4 4 5 5 3 3 1 2 4 6 6 20 9 9 111 4 4 3 3 9	3 2 3 3 3 1 1 1 67 5 5 5 25 5 25 17 29 9 17 29 20 20 24 11 11	27	71 71 71 2	29 29 3 5 1	8 1 16 24 4 4 1 1 141 2 2 2 1 10 366
Mot. rmen. Music teachers Nickel platers Nirses Oilers. Organ builders. Packers Painters Painters Photographers Plumbers Plumbers Polishers Prers Prers Punch press hands Railroad laborers Railroad men. Salesmen. Sayers. Shipping clerks. Shipping clerks. Shoemakers.	2 2 2 3 3 4 4	22 22 2 33 53 6 6 5 7 11 146 3 12	52 24 58 3 1 4 4 4 53 53 24 6 6 20 9 111	3 2 3 3 3 1 1 1 67 5 5 5 25 5 25 17 29 9 17 29 20 20 24 11 11	27	71 28 29 71 1 2	29 29 3 3 5	8 1 16 24 4 4 1 1 141 2 2 2 1 10 366
Mot. rmen. Music teachers Nickel platers Nickel platers Nirses Oilers. Oigan builders. Packers Paper hangers Photographers Plumbers Plumbers Polishers Porters. Pressmen Printers Printers Ruilroad laborers. Ruilroad laborers. Savyers. Savyers. Shipping clerks. Shipping clerks. Shipping clerks. Shoenakers. Silver men. Solicitors	2 2 2 3 4 4 11 10 43 43 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 22 33 53 6 5 7 11 146 3 12 17 104 61	5 24 58 3 1 1 4 4 4 58 6 20 9 111 1 4 3 9 3 3 3 3	3 3 3 3 3 3 4 4 11 1 154 67 5 5 25 25 25 25 25 26 26 26 26 26 26 24 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27	71 12 8 2 71 1 2 2 6	29 29 3 3 3 1 2	8 1 16 24 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Mot. rmen. Music teachers Nickel platers Nickel platers Nickel platers Nickel platers Nickel platers Nickel platers Packers Packers Packers Paper bangers Photographers Plasterers Plumbers Polishers Polishers Porters Pressmen Printers Punch press hands Railroad laborers. Railroad daborers. Railroad men Salesmen Sayers Shoemakers Shoemakers Shoemakers Silver men Solicitors Steam fitters	2 2 3 4 4 11 100 43 1 1 1 4 4 6 6 98 100 17 7 7 12 3 3 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	22 22 333 65 57 111 1466 3 12 17 104 61	5 24 58 3 1 4 4 4 4 6 20 9 9 1111 39 3 3	4 4 3 3 3 3 3 4 4 11 1 67 5 5 5 5 5 5 6 6 6 241 1 1 1 1 0 1 4 4 4 4 1 1 1 1 1 1 1 1 1	27	71 12 8 2 71 1 1 2 6 6	29 29 3 3 3 1 2	10 36 53 24 11 141 12 22 10 366 53 22
Mot. rmen. Music teachers Nickel platers Nickel platers Nirses Oilers. Oigan builders. Packers Paper hangers Photographers Plumbers Plumbers Polishers Porters. Pressmen Printers Printers Ruilroad laborers. Ruilroad laborers. Savyers. Savyers. Shipping clerks. Shipping clerks. Shipping clerks. Shoenakers. Silver men. Solicitors	2 2 2 3 4 4 11 10 43 43 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 22 333 533 6 6 5 7 11 146 3 12 17 104 61	5 24 58 3 1 4 4 4 4 6 20 9 9 1111 39 3 3	3 3 3 3 3 3 4 4 11 1 154 67 5 5 25 25 25 25 25 26 26 26 26 26 26 24 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27	71 12 8 2 71 1 1 2 6 6	29 29 3 3 3 1 2	141 22 10 36 24 4 11 10 36 5 5 3 2 11

## Work of the Three Offices—Table IV—Concluded.

		CATION: YMENT			EMS			
CHARACTER OF OCCUPATIONS.	North Side Office.	South Side Office.	West Side Office.	Total.	North Side Office.	Side	Side	Total.
Stock keepers			7	7				
Stone cutters	1		4	5				
Stone masons	3			10				
Failors Feachers	- 2	5	4					
Teamsters	199	105	181	405	61	52	45	16
Telegraphers	1	1	2					
File roofers								
Time keepers	3	29	3	35		2		
Tinsmiths	2	. 2	1	5	1			
Tool makers			2	2				
Truckmen			5	5	1			
Undertakers Upholsterers	2		5	É				
Vegetable men	-		, ,				-	i
Vest makers	1			1				
Vise hands	13		4	17.	3			
Wagon makers	1		1	. 1				
Waiters	28	70	· 8	106	15	58	3	7
Watchmakers	1			1				
Watchmen	120	155	195	470			4	1
Whitewashers	3	48		93		42		
Wholesale men Window dressers		4.0	45	35			9	
Window washers	1			10				
Wood finishers	4			10	1			
Wood workers		15	20	35			5	
Yardmen			2				4	
Not classified	16	9	24	49				
Totals-152 positions	2,909	4,350	2,566	9,825	1, 189	1, 705	588	3, 7

Table V.—Showing the combined work of the three offices, applications for employment filed and employment secured. Nine weeks August 2 to October 1, 1899.

## FEMALES.

	APPLICATIONS FOR EMPLOYMENT FILED.				Ем			
CHARACTER OF OCCUPATIONS.	North Side Office.	South Side Office.	Side	Total.	Side	South Side Office.	West Side Office.	Total.
Addressers				6				
Apprentices			1	1				
Barbers		1		1				
BookkeepersBottle labelers	4	7	3	14				
Canvassers Cash girls		2	1	3				
Cashiers	- 6	3	10	19				
Chambermaids		106	43	193	51	92	30	
Clerks Companions	66	104	16	186	4	7	6	
Cooks Copyists	75		56 1	263 6		121	78	20
Daywork Dining room help	117		128 26	245 26			54 35	

Work of the Three Offices—Table V.—Concluded.

		ICATION YMENT ]				PLOYME		
CHARACTER OF OCCUPATIONS,	North Side Office.	South Side Office.	West Side Office.	Total.	North Side Office.	South Side Office.	West Side Office.	Total.
Dishwashers	14	67	255	98 255	24	62	20 345	106 345
Dressmakers	25 288	16 12	29	23 66 288	15 298	1	27	43 298
Governesses Housekeepers Housework	50	18 423		3 124 423 26	16	659 3		36 659 4
Janitresses Kitchen help Lady's maid	47 40	14 44 2 57		106 2 110	66	33 3	12 15	111
Laundresses Mail order help Matrons Milliners			3	3				
Nurses Office work Pantry work	55	44	49 46	148 46 3	17	17	18	52
Photographers Printers	1		i	1 2 1				
Reception service	3			3 7 91	7 10			9
Seamstresses Second work Solicitors	8 85 1	26 24	95	51 204 1	43	13	11 75	26 131
Stenographers Teachers Waitresses	9 1 36	9 1 112		38 6 169	1 67	64	26 26	157
Wrappers Not classified			1	1				
Totals-48 positions	989	1,331	952	3, 272	823	1,150	772	2,745

It will be observed that of the 152 different male classes applying for employment, but comparatively few represent recognized trades or occupations; the greater portion of the unfilled applications are made by persons seeking places as clerks, bookkeepers, coachmen, collectors, salesmen, errand boys, watchmen, porters, etc. rather numerous element illustrates the common tendency in human nature to appropriate the places involving the least physical exertion; they are also the most difficult to obtain, as those requiring such service hesitate about assigning strangers to the duties of positions of a somewhat confidential nature. Neither should it be assumed that all applicants in this class represent the unemployed. superintendents in charge of these offices report that a considerable per cent were employed at the date of filing their applications, and hoped by so doing to secure better positions. By far the most numerous and needy class is that representing the common laborers for whose special benefit the offices were organized. An examination

of the returns for this class of labor show that these demands have been quite fully met. Of the 2.171 laborers making application, 2.170 were supplied with places. During the period covered by this report 1.557 more applications for help of this character were filed than were supplied, indicating an unusual demand for this class of service.

It frequently occurs in the reports of these offices, and particularly in the table relating to female applicants, where the number furnished with particular places exceed the number applying for them. This apparent discrepancy is explained by applicants accepting other employment than that for which they made application. The tables following show the age periods of the different applicants:

Table VI.—Age Periods of Male Applicants for Employment— Nine Weeks, August 2 to October 1, 1899.

Offices.	Under 20 years.	20 but under 30 years.	30 but under 40 years.	40 but under 50 years.	50 but under 60 years.	gears and over.	Not re- ported.	Total.
North Side	309	1,163	809	395	215	17	1	2,909
South Side	646	1,392	1,116	645	454	64		4,350
West Side	296	593	605	431	285	56	i	2,566
Totals	1, 251	3, 448	2,530	1, 474	984	137	1	9,525

Table VII.—Age Periods of Female Applicants for Employment— Nine Weeks, August 2 to October 1, 1899.

Offices.	Under 20 years,	20 but under 30 years.	30 but under 40 years.	40 but under 50 years.	50 but under 60 years.	gears and over.	Not re- ported.	Total.
North Side	156	33 <b>S</b>	180	127	40	2	146	989
South Side	399	620	272	36	4			1,331
West[Side	183	349	228	124	47	21		952
Totals	738	1,307	680	257	91	23	146	3, 272

The table following shows the sex, number and nationality of those registering for employment:

Table VIII.—Nationality of Applicants for Employment at the Three Offices—Nine Weeks—August 2 to October 1, 1899.

Nationality.	MALES.				Females.			
	North Side Office.	South Side Office.	West Side Office.	Total.	North Side Office.	South Side Office.	West Side Office.	Total
merican	1,497	2,635	1,568	5, 700	401	690	590	1,68
rmenianustrianavarian.	21 2	154	15	190 2	3	6		
elgianohemian	4	62	1 36	5 102	3	77	1	8
anadian anish nglish	64 12 64	161 57 157	62 39 98	287 108 319	8 7 24	36 13 52	23 8 27	6 2 10
rencherman	506	84 313		97 1,039	8	16 81	65	27
reek lebrew [ollander	4	26	7 14	30 7 72		2	3	
lungarianrish	119	277	179	575	3 119	161	116	3:
talian forwegian folish	10 37 23	55 47	11 24	76 84 47	13	11 23 37		
russian	3 12	36	4	3 52		17		
candinavian cotchpanish	30	94	197 52	197 176	15	22	96 13	
wede	247 16		9	354 48	113	81 4	i	19
yrian `urk Velsh	4	13	1 2	1 6 24				
lot reported	209		4	213	147			14

The most suggestive feature in connection with the facts here presented is the striking preponderance of Americans. This class, it will be noticed, represents considerably more than one half the entire number of all other applicants combined. It is sometimes easier to discover a fact than to assign a reason for it. While the statistician is not expected to solve sociological problems, it is patent that whatever the cause operating to produce these results, the American, in the modern process of industrial displacement, has been and is the principal sufferer. In certain specialized occupations he has surrendered to the superior force of his foreign competitor.

While much of the hard, disagreeable work of the world has, in the ordinary course of industrial evolution, been committed to other hands, and many new avenues opened for the employment and utilization of native genius and energy, still the simple story of these

figures burden the brain with the impression that, in the struggle of human life, many have been ignored and neglected, and not without regret is it noted, that in the world's busy places, seeking employment, are found in greatest numbers, the representatives of a superior race.

As a partial explanation of the excess of Americans, compared with other nationalities, applying for employment, it may be proper to suggest that they predominate among the class of applicants seeking to obtain clerical positions, and probably represent the remnant of that portion of the population which years ago rushed to the large cities, in the hope of securing sinecure employment. They rank among the so-called educated classes whose wits have proved unequal to their wants, and whose necessities constitute a standing rebuke to that system of vicious instruction which induce men to regard the occupation of the common laborer as something less than honorable.

Following will appear the reports of each of the three superintendents, showing in detail the work accomplished by them, from the date of opening the offices, August 2, to October 1, 1899. Following these will be found a general summary, giving the combined business of all of the offices.

## ILLINOIS FREE EMPLOYMENT OFFICE, NORTH SIDE OFFICE, 234, 234-2 CHICAGO AVENUE,

CHICAGO, October 1, 1899.

Hon. David Ross, Secretary Bureau of Labor Statistics, Springfield, Illinois: Sir:—In compliance with section 6 of the law establishing free employment offices, I submit herewith the first report of this office, extending from August 2 to October 1, 1899. It will be noticed that the business of the office, during the brief period which it covers, has by far exceeded our most sanguine expectations. You will appreciate the fact that all the work done by the private employment offices is obtained principally through the medium of advertising in the Chicago newspapers; on account of our limited appropriation we have not expended anything in advertising.

There are several things that in a way come into this office, outside of our regular work of procuring employment. The Civic Federation of Chicago have just found us out and are beginning to send us deserving people in search of employment, and I am happy to say that all that have been sent have been properly taken care of. The Bureau of Associated Charities of the city has sent us several cases, all of which were immediately cared for. There have been several other cases of one kind and another that have needed the most prompt attention in the way of charity, and all of the employés of this office have at once become interested. I am pleased to report that in every instance we have been able to give immediate relief without extra expense to the State.

In this report you will observe a great number of applications for help that we have not been able to fill. This is the old case of supply and demand, and in this particular the supply was very short. At times we have large demands for certain kinds of help, as at the present time we cannot supply molders, tinsmiths nor butchers to meet the demand. We are receiving calls from all over the country for this class of help.

As the seasons change the demands for help in the several avocations change, and I believe if we had sufficient funds to enable us to use the newspapers for advertising purposes, we would be much better able to help the employer and employé. The only demands for help we have had that have remained unsupplied since the opening of this office is for farm hands and laborers; the principal trouble is, that Chicago farm hands do not know how to milk a cow, and every farm hand we have had a call for is wanted for this kind of work.

While my experience in the employment agency work is limited, I think some changes in the law should be made, and shall take the opportunity of submitting some recommendations in my next annual report. Following this report will be found an itemized statement of the expenses incident to equipping and maintaining the office from August 2 to October 1, 1899.

Respectfully submitted,

## ILLINOIS FREE EMPLOYMENT OFFICES.

NORTH SIDE OFFICE, 234 CHICAGO AVENUE.

Table giving the Character of the Positions Applied for, both for Employment and for Help, the Number of Positions Secured and the Number Remaining Unfilled:

### MATIES.

	AI FOR	APPLICATIONS FOR HELP.						
CHARACTER OF POSITIONS.	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Numbe Unfilled			
rehitect	3	 	3					
rehitecticycle worker	6		6					
artender	31	3	. 28	3				
arber	4	2	2	3				
arnman	24			33				
lacksmith	14		3					
lacksmith helpers	2		1					
ookkeeper	46							
aker	19	5	14	6				
ox maker	. 2		: 2					
ookbinder	1 2		1 2					
oiler maker	2		2					
ricklayer	3		3					
utcher	16	,	16	1				
utler	2	1	1					
eli boy	1 2		2					
andy maker	2							
an maker	1		1					
anvasser	13		4					
ar cleaner	2							
arpenters	48							
ar builders				50				
garmaker	3		280					
lerks	301			15				
ollectors	7.0		35					
oachmen	37			40				
oal heavers		19						
ooks	49			13				
ompanion			1	1				
oal miners				10				
upola tender	1		1					
ore maker	1		1					
abinet maker	1							
hef				. 9				
onductor								
river								
raughtsman			12					
rill press hand			1-9	, ,				
ruggist	1	,	1					
yer ishwasher	10	40	. 1	41				
lectrical lineman	11	310		1				
levator man	9.0		15					
ngineer	49	5						
lectrician				i				
rrand boy			21	9.				
lorist				<del>.</del>				
arm hands	85			118				
actory hands	96							
iremen	57							
ardener								
louseman				70				
ron worker	. 10				,			
anitor	11:	2 9	103	3 :				
itchen work	. 12			. 19				
aborers	. 730	534	196	1,643	1,1			
aundryman		2 8	,	: :				
ime mixer locksmith		i	10	l				

# $North\ Side\ Of\!fice-Males- {\bf Concluded.}$

	FOR	PPLICATIO EMPLOYM	Applications for Help.		
CHARACTER OF POSITIONS.	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unfilled
Metal worker	2		2	10	
Motorman	2	1	·····i	10	·
Music teacher	2		2		
Machine hands	16		16		
Nickel plater Nurse	4		3		
Organ builder	11	l	11		
Painter Polisher	43		36	15	1 *
Porters	98		57	51	10
Pressman	10		9	i	•
Printer	17		17		
Plumber Packer	14 10		14 10		
Plasterer	ĭ		ĭ		
Photographer	1		1		
Stone cutter	1 3		1 1		
Salesman	26	27		117	9
Stenographer	6		6		
Steam fitter	3		3		
Steward	3		á		
Sawyer	7		.7		
Solicitor Shipping clerk	12		12	- 1	
Teacher	3		3	- 1	
Teamster	122	64	58	79	1
Pailors Pinsmith	$\frac{2}{2}$	1	1 1	7	
Fruckman	_	1 1		í	
Timekeeper	3		3		
Pile roofer				1	
Upholsterers Undertaker	1		1		
Vise hands	13	3	10	2	
Vest maker	1		1		
Vegetable man	120	11	109	11	
Waiter	28	15	13	18	
Window dresser	1		1	1	
Wood finisher	1	1	J 1	3	
Window washer	î		î		
Whitewasher	3	1	2	10	
Wagon maker Not classified	1 16		1 16		
Total	2,909	1,189	1,775	2,688	1,516
Positions secured applicants who applied for other positions			55		
Total	2,909	1,189	1,720	2,688	1,516
Help furnished not applied for					17

### North Side Office—Continued.

### FEMALES.

CHARACTER OF POSITIONS.		PPLICATIO EMPLOYM	Applications for Help.			
	Number Filed.	Number of Posi- tions Secured	Number Untilled.	Number Filed.	Number Unfilled	
Bookkeeper	. 4		4			
'lerk	. 67	7	59	6		
'ooks	. 75			140	41	
Chambermaid	. 44	51		45		
Companion	. 2		2			
lashier	. 6		6			
)ay work	117	. 24	93	29		
Dishwasher	14	24		41	17	
actory work	25			27	15	
deneral work	255	298		625	330	
loverness	2		2			
Housekeeper	. 50	16	34	22		
lanitress	4		4			
Xitchen work	47			65		
_aundress		66		- 18	1	
Turse	. 55	17	38	26	9	
Office work				2	1	
Photographer	. 1		1			
Pantry work		3		ð		
Printer	. 1		1			
Reception service			42	55	4.5	
Second work	. 55	43			15	
Seamstress				23 12	1	
Serub woman	. 2	10		12		
Stenographer		1	?	1		
Solicitors	. 1		1	10		
Saleswoman				10		
reacher			1	123		
Vaitresses	. 30	- 61				
Totals						
Positions secured applicants who had applied	989	823	309	1,339	52	
for other positions	. 030		143			
zor other postuonon minimum						
Totals	989	823	166	1,339	52:	
Help furnished not applied for						
acip addition dot opposed total interesting						
Totals-29 positions	. 989	823	166	1,339	516	

### RECAPITULATION.

### NORTH SIDE OFFICE, October 1, 1899.

	Applications for Employment.			Applications for Help.			
	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unti!led.		
MalesFemales	2,909 989	1, 189 S23	1,720 166	2,688 1,339	1,499 516		
Totals	3,898	2,012	1,886	4,027	2,015		

# Expense Account North Side Office, to October 1, 1899.

Office furniture	\$551 50
Office safe.	300 00
Signs	41 60
Moving safe	20 60
Office rent, July 15 to October 1	175 00
Postal cards	30 00
Postage	50 00
Insurance on property	18 00
Janitor	37 50
Clerical service	376 00
Printing	4 50
Telephone rent and tolls	32 20
Expressage	1 35
Rent, typewriter	8 00
Office supplies and expenses	35 76
Total	\$1,694 01

### ILLINOIS FREE EMPLOYMENT OFFICES.

SOUTH SIDE OFFCE, 44 CONGRESS ST. CHICAGO, October 1, 1899.

Hon. David Ross, Secretary Bureau of Labor Statistics, Springfield, Illinois: Sir:—Complying with section 6 of the act of the General Assembly creating the Illinois Free Employment Offices, I beg to herewith submit the first report of the business of this office for nine weeks, August 2 to October 1, 1899, together with some interesting data taken from the applications for employment: also the expense account of this office for the same period.

If there is any doubt as to the necessity of these offices, the following report should remove it from the minds of the most skeptical; a fair idea can be obtained for the need of offices of this kind by the general benefit conferred upon those whom they were designed to aid and benefit—the employer and employé.

To those who were active in the work of encouraging and establishing these offices, there is every reason for congratulation, as the work they have accomplished is ten-fold greater in volume than any one could have anticipated, and it now seems remarkable that they remained so long unestablished.

Many reasons were advanced for the legislature taking this step; one of the main ones was the outrageous practices perpetrated on helpless working people by private agencies, robbing them of their last dollar and oftentimes sending them on long journeys in quest of employment that never existed. The State, in aiding and protecting this helpless class, has performed its real function, that of protection, in a most satisfactory manner.

Recognizing the peculiar industrial conditions existing in all large cities, Chicago, while always the scene of industrial activity, has generally contained a large element of the unemployed, which can be turned into an undesirable, if not a dangerous class, when industrial equilibrium is disturbed. These free offices, in the procuring of employment for this class, will eliminate this in a great measure.

As the work already performed has more than justified the creating of these free offices, many additional resources are needed to render them still more effective, and will no doubt be supplied by the next legislature.

The apparent large number of applicants filing applications and failing to obtain employment is susceptible of explanation; when applicants have applied for common labor they readily found employment, but when they applied for some special position and would not accept any other, it was very difficult to secure such applicants the particular position applied for.

It was found that many of these applicants at the time they applied for employment were not idle, but their object in filing an application was to secure some better or more satisfactory employment.

The daily newspapers, when these offices were opened, were very liberal in their news columns, giving us a great deal of advertising, which induced many people from the surrounding country and adjoining states to send applications for employment in Chicago, which, under the law, we were compelled to register on our books. It is as hard to keep people from flocking to large cities as it is to keep the moth from the candlelight. The activity in the business of large cities appears to be the magnet that attracts people from the outside

The work of this office, since its establishment, has been carried on with great difficulty, owing to the limited appropriation, as the expenses for maintaining the office two months will show. It was found necessary to have additional clerical help to properly carry out the law in regard to these offices, twenty-four hours after they were opened.

Following is a report of the South Side office and the necessary expense of furnishing and maintaining the same from August 2 to October 1, 1899.

Very respectfully,

GEO. W. GEARY,

Superintendent.

### ILLINOIS FREE EMPLOYMENT OFFICES,

SOUTH SIDE OFFICE, 44 CONGRESS STREET, CHICAGO.

Table giving the character of positions applied for, both for employment and for help, the number of positions secured and the number remaining unfilled.

#### MALES.

Secured.   Secured.	Character of Positions.	APP E	LICATIONS MPLOYMEN	APPLICATIONS FOR HELP.			
Architects     1     1     1       Bakers     8     2     6     3       Barbers     23     23     23       Barmen     96     55     41     57       Bartenders     50     6     44     10       Bieyele workers     5     5     5       Bild clerks     23     2     21     2       Bollemakers     24     2     22     2       Bollemakers     1     1     1       Bookkeepers     89     89       Boxnakers     2     2     2       Brass finishers     1     1     1       Brick layers     10     4     6     56     5       Butters     9     2     7     3       Butters     8     2     6     3       Candy makers     1     1     1			of Posi- tions	Number Unfilled.	Number Filed.	Number Unfilled.	
Carpenters	Architects Bakers Barbers Barnen Bartenders Bitycle workers Bill clerks Blacksmiths Boolernakers Bookbinders Bookbeepers Bookkeepers Brass finishers Brass finishers Butchers Butchers Butchers Butchers Candy makers Canyassers	96 50 50 23 24 1 1 89 2 1 10 9 8 8	2 2	21 22 22 1 1 89 2 1 6 7 6 6 1 5	2 2 2		

## South Side Office—Males- Concluded.

		ACATIONS PLOYMEN		Applic For 1	ATIONS LELP.
Character of Positions.	Number Filed.	Number of Posi- tions Secured.	Number Untilled.	Number Filed.	Number Unfilled.
Clerks	162	2	160	3	1
Coachmen	42	3	39	3	
Collectors Cooks	15 97	1 52	17 45	71	15
Dishwashers	74	29	45	69	35
Oraftsmen Orug clerks	33		233		
Dry goods clerks	75		75		
lectricians	31 76	16	30 60	1 22	
Hevator men	103	11	92	15	
Crrand boys	162	37	125	64	2
Express messengers Pactory hands	10		10		
arm hands	101		101		
Horists	.1		. 1		
firem-n folders	61	13	45	17	
fardeners	í	1		1	
trocery clerks	67	3	64	3 52	4
Hod carriers	130	3 36	94	50 50	1
ron workers	. 5		5		
anitors	229 32	14	215 24	32 14	1
Kitchen work Laborers	1,302	1,059			43
aundrymen	2	2		3	
dachinists	59 6	15	41	20	
dachine handsderchants	7	1	6	1	
lolders' helpers lotormen	3		3		
Motormen Nurses	1	6	1 16		
Oilers	-2	1	1	1	
Packers	33	12		20	
ainters	53 6	3	45 4		
Photographers	5		5		
Plumbers	. 3		.7		
Polishers	11 146	71	75	119	4
Pressmen	3	1	2	1	
Printers	12	2	10 15		
Railroadmen	17	6	95		
Shipping clerks	61	1	60		
Silvermen	1 95	1		1 9	
Solicitors Steamfitters	3		-4		
Stenographers	30		30		
Stewards	7	1	6		
Cailors Ceachers	5		5		
reamsters	105	52	63	61	
Felegraphers Fimekeepers	1 29				
Pinsmiths	2		-2		
Upholsterers	70	5	12	64	
Waiters Watchmen	155	3	152		
Wholesale men	45	42		47	
Window washers	9 15	9	15	1.	
Wood workers	9		9		
	4.050	1,705	2,647	2,514	50
Totals	4.350	1, 705	2,047	2,014	503
plied for other positions			2		
	1.050	1, 705	2,645	2,514	809
Total—90 positions	4,350	1,405	4,040	2,314	500

### SOUTH SIDE OFFICE-FEMALES.

CHARACTER OF POSITIONS.		LICATIONS MPLOYMEN	APPLICATIONS FOR HELP.			
	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.		Number Unfilled	
Addressers Barbers Bookkeepers Canvassers	6 1 7 2		6 1 7 2			
Ĉashiers Chambermaids Clerks Cooks Covvists	3 106 104 132 5	7 121	3 14 97 11 5	181 11 218		
Dishwashers Dressmakers Factory workers Housekeepers	67 16 12 18	62 1 1 3	5 15 11 15	1		
Housework Janitresses Kitchen help Lady's maid Laundresses	423 14 44 2 57	33	11 11 2	820 4 123	9	
Nurses Saleswomen Scrub women Seamstresses	44 7 89 26	17 2 33 6	5 5 56 20	33 5 82 8	1	
Second work Stenographers Teachers Waitresses	24 9 1 112	13 1 64	11 8 1 48	1	2	
TotalsPositions secured applicants who had applied for other positions	1,331	1, 150	417 236	1,751	60	
Totals-27 positions	1,331	1,150	181	1,751	60	

# RECAPITULATION. SOUTH SIDE OFFICE, October 1, 1899.

	Applications for Employment.			Applications for Help.		
	Number Filed.	Number of Posi- tions Secured.	Unfilled.	Number Filed.	Number Unfilled.	
MalesFemales	4,350 1,331			2,514 1,751	. 809 601	
Totals	5,681	2,855	2,826	4,265	1,410	

# Expense Account of South Side Office, August 2 to October 1, 1899.

Rent for office from July 15 to October 1	 	
Office furniture		
Carpenter work in fitting office		
Insurance on office furniture	 	
Postage		
Signs and painting office	 	
Toilet supplies	 	
Awning	 	
Numbering machine and rubber stamps	 	
Electric fan	 	
Wiring and equipment for light and power	 	
Rent for light and power	 	
Typewriter and desk	 	
Western Union, clock rent	 	
Rent for telephone	 	
Copy press and stand	 	
Water filter	 	
Janitor and miscellaneous supplies	 	
Salary for stenographer	 	
Salary for janitor	 	
Extra clerks	 	
Totals	 	

# ILLINOIS FREE EMPLOYMENT OFFICES,

WEST SIDE OFFICE, 28 OGDEN AVENUE.

CHICAGO, October 1, 1899.

HON. DAVID ROSS, Secretary, Bureau of Labor Statistics, Springfield, Illinois: SIR:—In compliance with section 6 of an act of the General Assembly creating the Illinois Free Employment Offices, I have the honor to submit to you the first report of the work of this office, for nine weeks, August 2 to October 1, 1899, also my expense account.

Very respectfully,

F. E. ERICKSON, Superintendent.

#### ILLINOIS FREE EMPLOYMENT OFFICES.

WEST SIDE OFFICE, 28 OGDEN AVENUE, CHICAGO.

Table giving the character of positions applied for, both for employment and for help; the number of positions secured and the number remaining unfilled.

#### MALES.

CHARACTER OF POSITIONS.		PPLICATIO EMPLOYM	APPLICATIONS FOR HELP.		
	Number Filed	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unfilled
Agents Any occupation Apprentices Auctioneer	3 49 49		3 43 44 1	6	
Bakers Barbers Barn men Bartenders	3 6 1 27	1 3	2 3 1 23	1 4	
Bell boys. Bicycle workers. Bill clerks Blacksmiths. Bookbinders.	1 1 16 2	2	1 1 14 2	5	
Bookkeepers. Box makers Brass finishers Bricklayers	1 1		15 2 1 4	1	
Butchers Cabinet makers Canvassers Carpenters	15 1 2 62	6	9 1 2 56	1 6	
Carriage washers Cashiers Cash boys Cigarmakers Circular distributors	1 2		2 1 2 1		

# West Side Office—Males -Continued.

Applications Applications

	FOR	EMPLOYS		FOR I	TELP.
CHARACTER OF POSITIONS.	Number Filed.	Number of Posi- tions Secured.	Unfilled.	Number Filed.	Number Unfilled.
Clerical	149	2	147	1 .	
Coal miner	1		1	. 1	1
Coachmen	25	- 6			. 1
Coal weigher Collectors	34	1	33		
Conductors	4		33	_	1
Cooks	25	13	12	17	4
Coppers	1		1		
Core makers	3	1	1 3	1	
Dish washers	4	6		6	
Draftsmen	1		1		
Drill-press men Druggists	1		7		
Electricians	15		14		
Electrotypers	1		1		
Elevator men	21	2	19	2	
Engineers Errand boys	66 75		66 68		
Factory hauds	94		94		
Foremen	7		7		
Farm hands	58	28	30	33	5
Flouring mill	1		1		
Firemen	50	1	49	1	
Furnace tenders		1		1	
Gardeners Harness cleaners	2		2		
Harness makers		2	·····i	2	
Housemen	63	35	28	38	3
Hostlers	22	18		19	1
Hotel clerks	13		13	1	
Iron workers	·····i		1		
Janitors	98			13	
Kitchen work,	5	547	1	4	
Lathers	439	347	2	555	11
Laundry men	4	1	3	2	1
Locksmith	5		5		
Machinists	80	. 2	75	. 2	
Metal workers	7		7		
Nurses	5	1	4	1	
Oilers	2		20		
Painters	58	9	49	9	
Paper hangers	3	2	1	2	
Photographers	1		1		
Plasterers Plumbers	1	. 1	3	1	
Porters	53	29	24	31	2
Printers Punch press hands	24		24		
Railroad men	6		6		
Railroad laborers	20		20		
Salesmen	111		10-	3	
Sawyers	4	5 1	38	5	
Shipping clerks Shoemakers	39		1	1 9	
Steam fitters	7		. 7		
Stenographers	4		4		
Stock farm hand		1		1	
Stock keepers	4		1		
Tailors	2		2		
Teachers	4.4		4 136	46	
Teamsters Telegraphers	181	45,	190	46	

# $West\ Side\ Of\!fice-Males-{\tt Concluded}.$

CHARACTER OF POSITIONS.	Ar	PLICATIO EMPLOYM	APPLICATIONS FOR HELP.		
	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
Time keepers Tinsmiths Tool makers Truckmen Undertakers Upholsterers Vise hands. Waiters Watchmen Wholesale men Wood workers. Lardhen Total. Total. Total. Positions secured applicants who had applied	3 1 2 5 1 1 5 4 8 195 45 20 2 24 2,566	2 3 4 3 5 4 858		901	1 1
for other positions	2,566	858	1,708		43

### FEMALES.

Character of Positions.	FOR	PPLICATIO EMPLOYM	APPLICATIONS FOR HELP.		
	Number Filed.	Number of Posi- tions Secured.	Unfilled.	Number Filed.	Number Unfilled
Apprentices Attendants. Sookkeepers. Sookkeepers. Sookkeepers. Sookkeepers. Sooklessessessessessessessessessessessessess	11 13 11 11 10 10 10 10 10 10 10 10 10 10 10	300 6 78 78 54 350 200 3451 54 15 15 15 15 15 15 15 15 15 15 15 15 15	10 1 74 74 38 38 38 47 47 1	34 6 93 93 93 95 95 95 95 95 95 95 95 95 95 95 95 95	35

# West Side Office—Females -Concluded.

	APPLICATIONS FOR EMPLOYMENT.			Applications for Help.		
CHARACTER OF POSITIONS,	umber Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.	
leachers Valtresses Valtresses Vot classified	4 21 1	26		25	2	
Total. Positions secured applicants who applied for other positions	952	772	311	1, 177	405	
Totals—36 positions	952	772	180	1,177	405	
-		PPLICATIO EMPLOYS		FOR I	ATIONS HELP.	
	FOR	Number of Posi-	Number		Number	
Males	For	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.	

### SUMMARY

Of the Three Free Employment Offices for Nine Weeks to October 1, 1899, by Character of Positions.

#### MALES.

	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
CHARACTER OF POSITIONS.	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Numbe Unfilled
Agents	5		5		
Any occupation	49 49	6 5		6	
Architects	4		4		
Bakers	30		22	10	
Barbers	33 121	5 88	28 42	90	
Bartenders	108			19	
Bell boys	6		6		
Bicycle workersBill clerks	14 24	9	14 22		
Blacksmiths	54	15	39	31	1
Blacksmith helpers	2	1	1	7	
Boilermakers	3		] 3		
Bookbinders	5 150		150		
Boxmakers	6		6		
Brass finishers	2		.2		
Bricklayers	17 40	8	13 32	56 10	5
Butchers	10		7	3	
abinetmakers	2		2		
anmaker	1		1		
Candymakers	21		14		
er builders		15		50	9
Car cleaners	2	2		3	
arpenters	169	24	145 4	64	4
'arriage washers	1	3	1	4	
lashiers	26	1	25	2	
hefs				1	
igarmakers	5 2		5 1		
Herical work	149	2	147	2	
lerks	463	23	440	18	
achmen	104	11	93	13 40	
Coal heavers	·····i	19	·····i	40 76	7
Coal weighers	1		1		
Collectors	59	2	57	4	
companions	1		1		

## Summary of the Three Offices- Continued.

### Males Continued.

	Applications for Employment.			APPLICATIONS FOR HELP.		
	FOR	EMERGIN	ENI.	ron	TEDE.	
Character of Positions.	Number Filed.	Number of Posi- tions Secured.		Number Filed.	Number Untilled.	
Cooks	171	76	95	167	31	
Coopers	. 1		1			
Conductors Coremakers	4		4	3		
Cupola tenders	3	1	2	1		
Dishwashers	122		40		33	
Draughtsmen	20		4			
Drill pressmer. Drivers			91	39		
Drug clerks	33		33		:	
Drug clerks Druggists	-7	,	75			
Dry goods clerks Dyers	75		10			
Electrician	60	2	35	2		
Electrical linemen	2		2			
Electricians Electrical linemen Electrotypers Elevator men	121	24	97			
Engineers	218	15	200	24		
Errand boys	282	115	214		3	
Express messengers	1	10	100	15		
Factory hands Farm hands	242	111	131	151		
	165	25				
Planist.	2		-2			
Flouring will hands Folders Foremen Foundry men	1		;			
Foremen	7		-			
Foremen Foundry men Foundry men Furnace tender. Gardeners Grocery elerks Harness cleaners. Harness makers Hod carriers. Hod learners.	1		1			
Furnace tender	10	1 9				
Grocery clarks	67		64	1 3		
Harness cleaners		2		_		
Harness makers	1		1	50	4	
Hostlers	20	18		1. 19		
Hostlers	13		13			
Housemen	270	142	137	155		
lce cream makers	16	: ······				
	439					
Laborers	2, 471	2,170	405		1,55	
lattiers Lattiers Laundrymen Locksnitht Locksnitht	18		10			
Lime mixer				. 1		
Locksmiths			175	)		
Machinists	251	32	220			
Masons						
Merchants		1	ŧ			
Metal workers Molder helpers		2	3	10		
Motermen.	3	1	2	2 1		
Music teachers			2			
Nickle platers Nursers	31		2	9		
Oilers		1	- 3			
Offers Organ builders	1.1		11 51			
Packers Painters	. 47 154			1 24	1:	
Paper hangers	109	- 1	100	5 6		
Photographers	. 7		-			
Plasterers	- 5	1	- 4	I		
Plumbers						

## Summary of the Three Offices-Continued.

### Males-Concluded.

	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
CHARACTER OF POSITIONS.	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unfilled
Porters	297	141	156	201	66
Pressmen	13	2	11		
Printers	53	2	51	. 4	
Punch press hands	6		6		
Railroad laborers	20		20		
Railroad men	26	10	16	10	
Salesmen	241				9
Sawyers	11				
Shipping clerks	100				
Shoemakers	10		S		
Silver men	10			1	
Solicitors	40				
	13		13		
Steamfitters	10		40		
Stenographers	10		9		
Stewards	10	1	,,		
Stock farm hands		1		1	
Stockkeepers	7		4		
Stonecutters	5		5		
tonemasons	3		3		
railors	10		9	1 7	
Feachers	12		12		
reamsters	408		247		2
relegraphers	3		3		
File roofers				1	
Fimekeepers	35	. 2	33	2	
Tinsmiths	5	1	4	2	
Foolmakers	2 5		2 5		
Fruckmen	5	1	5	1	
Undertakers	2		2		
Upholsterers		9	6	2	
Vegetable men		ī	1	1	
Vestmakers	1			_ ^	
Vise hands	17	3	14	9	
Wagonmakers	i		1 1i		
Waiters	106				1
Watchmakers	100	10	30	1 30	1
	470	40	452	19	
Watchmen	1 4.0			10	
Whitewashers	93	1 45			
Wholesale men	93	45	1.5	1	
Window dressers	1 1		1 1		
Window washers	10			12	
Wood finishers	4				
Wood workers	35	5	30	9	
Yard men	2	4		1	
Not classified	49		49	4	
		3,752	6,247	6, 103	2, 36
Totals	9,825	0,100			
Positions secured applicants who had applied	9,825	0,10.			
Positions secured applicants who had applied for other places.	9,825	0,100	174		
Positions secured applicants who had applied for other places.	9,825	9,102			1
Positions secured applicants who had applied	9,825		174		

# Summary of the Three Offices- Concluded..

### FEMALES.

	APPLICATIONS FOR EMPLOYMENT.			Applications for Help.	
CHARACTER OF POSITIONS.	Number Filed.	Number of Posi- tions Secured.	Number Unfilled.	Number Filed.	Number Unfilled,
Addresses	6		42		
Apprentices	1		ï		
Attendents	. 1		î		
Barbers	1		1		
Bookkeepers	14				
Bottle labelers			1		
Canvassers	3				
Cash girls	1				
Cashiers	19		19		
Chambermaids	193 186		27	263	93
Companions	150		166 3	23	4
Cooks			11	451	
('opyists			6	401	153
Day work	245		167	87	9
Dining room help	26			37	2
Dishwashers	98		5.		76
Domestics	255				354
Dressmakers	23	1		1	
Factory work	66		23	56	13
General work	288			628	330
Governesses	3		3,		
Housekeepers	124		58	43	7
House work				S20	161
Janitresses	26		22	5	1
Kitchen help	106		14	201	91
Lady's maids			2		
Laundresses	110	113	25	131	18
Mail-order help			2		
Milliners	1 1		-5		
Nurses	148		96		
Office work.	46		46		29
Pantry work	49		40	5	2
Photographers	·		1	.,	
Printers	2				
Proof-reader	1		1		
Reception service	3		3		
Saleswomen	. 7	9	5	15	6
Scrubwomen	91		56	94	51
Seamstresses	51		26	42	16
Second work	204		73	159	28
Solicitors			1		
Stenographers	38		34	5	1
Teachers	6		6		
Waitresses	169		48	239	82
Wrappers			1		
m l	0.050		4.00		
Totals	3, 272	2,745	1,037	4,267	1,527
Positions secured applicants who had applied		'	240		
for other positions			510		
Help furnished not applied for					5
Totals for 9 weeks	3, 272	2,745	527	4, 267	1, 522
	i				













