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NATIONAL RECOVERY ADMINISTRATION

DIVISION OF REVIEW

EVIDENCE STUDY

NO. 12

OF

THE FABRICATED METAL PRODUCTS MANUFACTURING AND METAL FINISHING AND METAL COATING INDUSTRY

Prepared by

TRISTRAM J. CAMPBELL

JULY, 1935

PRELIMINARY DRAFT

(NOT FOR RELEASE: FOR USE IN DIVISION ONLY)



THE EVIDENCE STUDY SERIES

The EVIDENCE STUDIES were originally planned as a means of gathering evidence bearing upon various legal issues which arose under the National Industrial Recovery Act.

These studies have value quite aside from the use for which they were originally intended. Accordingly, they are now made available for confidential use within the Division of Review, and for inclusion in Code Histories.

The full list of the Evidence Studies is as follows:

- 2. Boot and Shoe Mfg. Ind.
- 3. Bottled Soft Drink Ind.
- 4. Builders! Supplies Ind.
- 5. Chemical Mfg. Ind.
- 6. Cigar Mf . Industry
- 7. Construction Industry
- 8. Cotton Gar ent Industry
- 9. Dress Mfg. Ind.
- 10. Electrical Contracting Ind. 32. Retail Lumber Industry
- 11. Electrical Mag. Ind.
- 12. Fab. Metal Prod. Mfg., etc. 34. Metail Trade Industry
- 13. Fishery Industry
- 14. Furniture Mfg. Ind.
- 15. Genera⊥ Contractors Ind.
- 16. Graphic Arts Ind.
- 17. Gray Iron Foundry Ind.
- 18. Hosiery Ind.
- 19. Infant's & Children's Wear Ind.
- 20. Iron and Steel Ind.
- 21. Leather
- 22. Lumber & Timber Prod. Ind.

- 1. Automobile Manufacturing Ind. 23. Mason Contractors Industry
 - 24. Men's Clothing Industry
 - 25. Motion Ficture Industry
 - 26. Motor Bus Mfg. Industry (Dropped) 27. Neoflework Ind. of Puerto Rico
 - 28. Painting & Paperhanging & Decorating
 - 29. Photo Engraving Industry
 - 20. Plumbin: Contracting Industry
 - 31. Rutail Food (See No. 42)
 - 33. Retail Solid Fuel (Dropped)
 - 23. Imboer Mfg. Ind.
 - 33. Imbuer Tire Mfg. Ind.
 - 27. Sill Textile Ind.
 - 38. Structural Clay Products Ind.
 - 3.. Throwing Industry
 - 40. Trucking Industry
 - 41. Waste Materials Ind.
 - 42. Tholesale & Retail Food Ind. (See No.
 - 43. Wholesale Fresh Fruit & Veg. 31)

In addition to the studies brought to completion, certain materials have been assembled for other industries. These MATERIALS are included in the series and are also made available for confidential use within the Division of Review and for inclusion in Code Histories, as follows:

- 44. Wool Textile Industry
- 45. Automotive Parts & Equip. Ind.
- 46. Baking Industry
- 47. Canning Industry
- 43. Coat and Suit Ind.

- 49. Household Goods & Storage, etc. (Dron-
- 50. Motor Vehicle letailing Trade Ind. ped)
- 51. Retail Tire & Battery Trade Ind.
- 53. Shin & Boat Bldg. & Repairing Ind.
- 53. Tholesaling or Distributing Irada

I. C. Marshall Director, Division of Review

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FARRICATED TITAL PRODUCTS LATURACTURING AND METAL FINISHING AND METAL OCATING INDUSTRY

Fores ord

The Pablic tel M. for Products Homeforthring and Metal Finishing are Metal Coating Industry covers a very broad and diversified field of industry - all the way from how ring and risers to entistic limiting equipment. Various Census classifications covers after of the Industry but it is not moscible to combine these so as to cover exactly the Code classification. Some branches of the Industry as covered by the Code are not included in the Consus data and for others a breakdown of the pore-inclusive Consus data is not available. In view of this difficulty Code Authority deta have been presented rather than original Census data. The Code Authority obtained these data by ruling the proper adjustment for the difference between Census classifications and Code classification.

The Code Authority was expanished out of the Fabricated Metal Products Federation, and, for the most most, the records of the Federation were incorporated into the records of the Code Authority. These records list 7,075 concerns in the Industry, and provide production and financial data for about 40 yer cent of the concerns, and was, data for only about one per cent. Tecause of the broad scope of the Industry, it has been difficult to obtain more complete statistical coverage. Of those concerns reporting, the majority are probably the better organised and operated concerns of the Industry.

The figures taken from the applications for presentation of Codes of Fair Competition are marked estimated wherever they were thus indicated on the code applications. As is indicated by the rounding off of other figures from the same source, it is likely they were estimates also, but it is impossible to determine to plat extent this is true.

The Eurean of Lakor Statistics Path presented in Table XVII constitute the only Government at tistica portaining stacifically to the Industry as defined by the Code. All of the unterial presented in the Appendix was sumplied by the Code Authority, and is submitted in the Port prepared by it.

CHAPTER I

THE NATURE OF THE INDUSTRY

Size of the Industry

The Fabricated Metal Products Hamufacturing and Metal Finishing and Metal Coating Industry is composed of approximately 7,075 concerns engaged in the production and wholesale distribution and fabricated metal products. 1/Due to the disorganized condition of this industry prior to the enforcement of the codes no reliable statistics of the total number of concerns operating in pre-code years are available, but the following data for selected subgroups of the industry as listed in the Appendix under Exhibit A may be taken as a rough indication of the trend for the entire industry during the years 1928-1933.

TABLE I

Number of Concerns, 1928-1933 (Includes only those monufacturing groups listed in Exhibit A)

Year	Number of Concerns
1928	3 , 145
1929	3,195
1950	3,112
1931	5,054
1932	2,984
1935	2,909

Source: Records of the Code Authority.
See Appendix, Exhibit A, for
further information.

Geographical Distribution

In the Appendix under Exhibit B is listed the total number of concerns in each State. The distribution among the leading manufacturing States is indicated by Table II.

TABLE II
Total Number of Concerns by States, 1955

	,
State	Humber of Concerns
U. S. Total	7 , 0 7 5
Hew York	1,383
Illinois	786
Pennsylvania	392
Ohio	678
Massachusetts	553
California	450
Connecticut	555
New Jersey	349
Michigan	328
Other States	1,501
Source: Records of th	e Code Authority. See
Accendia, Exh	ibit B, for further in-

^{1/} As of May 25, 1935; from records of the Code Authority.

formation.

Thus, of the total of 7,075 concerns in the Febricated Metal Products Manafacturing and Metal Finishing and Metal Coating Industry, 5,574 concerns, or nearly 80 per cent, are concentrated within the Boston-New York-Philadelphia trade area, the Lake States trade area, and the San Francisco trade area.

Mumber of Status in Thich Specified Concorns Operate

The Code Authority was able to obtain detailed information on subsidiaries, branch plants, sales offices and varehouses of concerns in the industry only to the limited entent shown in the Appendix under Exhibit J. Table III summarizes this Exhibit after all debatable items are discarded.

TABLE III

81 Concerns Classified According to the Number of States in Which They Had Plants, 1934

Humber of	Humber of	Humber of Plants
States	Concerns	Orerated
Total	21	258
One State	31	65
Two States	30	70
Three States	3	54
Four States	9	54
Seven States	1	9
Mine States	2	26

Source: Records of the Code Authority, See Appendix, Exhibit J, for further information.

This tabulation is indicative of the interstate character of the industry. Of 81 concerns with 258 plants the activity of only 51 concerns and 65 plants was confined to a single state. The remainder were operating in two or more states.

Capital Investment

Of the total capital invested in the Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry, there is no available record, but for the industry sub-groups listed under Exhibit A of the Appendix, invested capital is indicated in Table IV.

TABLE IV

Capital Investment, 1929, 1931, 1933 (Includes only those manufacturing groups listed in Emblit A)

Year	inomt
1929	\$787,24 ,063
1951	376 , 806 , 083
1933	308,308,007
Samuel Devi	me of The inicated betal Products

Source: Report of Fabricated Hetal Products Federation.

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As a supplement to Table IV, reference should be made to Exhibit C of the Appendix showing the financial structure of 160 concerns reporting this type of information. The fixed assets of these concerns are given in the following table.

TABLE V
Fixed Assets of 186 Companies 1929, 1932, 1935

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Year	Anount a./
1929	\$90,290,841
1.932	83,869,306
1933	62,144,395

Source: Fabricated Metal Products Federation. Sea Appendix, Exhibit C, for further information.

o/ Fixed assets include land, buildings, machinery and equipment less reserves and depreciation.

These 163 concerns in 1935 reported their fixed assets as \$62,144,295 and their total assets at \$153,350,494, as compared with the \$625,332,097 of invested capital of the 2,909 concerns in Exhibit A. The conclusion may be drawn that these 166 concerns were the more important ones in the industry.

Regarding Exhibit C attention is called to the following facts: first, the maintenance of the liquid condition of these 166 concerns in the relationship between their current assets and current liabilities; second, the decline to 68.8 per cent of 1929 values in the fixed assets (a decline in line with the write-down in the assets of other industrial groups); and, third, the rapid decline in surplus, and the change from net profit to net loss with a decline in sales indicating that these concerns must, in the aggregate, total some \$117,000,000 in yearly sales in order not to incur a loss.

Failures and Financial Conditions

In 1934 there were ll failures in this industry, according to figures compiled from Dun and Bradstrect's by the Cost Accounting Section of the Research and Flanning Division of NRA.

Exhibits A and C of the Appendix give, for certain selected concerns, a limited comparison of the financial condition within the Industry for the years 1929, 1932 and 1933. For these concerns, the data for 1932 and 1933 show a net loss.

Volume of Sales and Productive Capacity

For the concerns in the manufacturing sub-roups listed in Exhibit A, the volume of sales is shown in Table VI.

The productive capacity, limited to the same industries, and the estimated percentage of productive espacity utilized, are also shown.

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-5-TABLE VI

Productive Capacity, Volume of Sales and Estimated Porcentage of Productive Capacity Utilized, 1928-1953

(Includes only those manufacturing aroups listed in Exhibit A)

Year	Productive Commenty (In thousands)	Volume of Sales	Per Cent of Pro- ductive Capacity Utilized <u>a</u> /
1928	\$813,377	\$626,626	77.0
1929	915,414	686,799	75.2
1930	887,433	559,179	53.0
1951	8 7 3,670	594,305	·15.1
1932	856,807	290,225	32 . 7
1955	783 , 012	265,062	35.9
1939 1930 1931 1932	915,414 887,435 873,670 856,807	686,799 559,179 594,305 230,225	75.2 53.0 45.1 32.7

Source: Records of the Code Anthority. See Appendix, Exhibit A, for further information.

A Percentage utilized obtained by calculating the per cent that sales are of total capacity. It is assumed that the periods covered by production and sales are identical, the fact that there may be a lag in sales being disregarded.

On the assumption that the information was compiled without prejudice and that the 2,009 concerns covered - being over 40 per cent of the total number of 7,075 concerns L/ in 1933 - are representative of all concerns, the above percentages may be considered in a general way to be characteristic of the Industry as a whole.

Table VII gives the sales value or volume for the principal product groups in the Industry for the years 1929, 1931, and 1935. 1934 data are not available. The table shows the precipitous drop in the sales of most of the product groups since 1929. Particularly noticeable is the drop in sales of railway car appliances and farrows and non-ferrous products in the Chicago area.

^{1/} See Tables I and III.

TABLE VII

Sales	Value	OI	Volume	ΟÍ	Princi	ipal	Product	Groups,
			1939,	1931	., and	1933		

	Annual Sales or Production		
Product Grouns	1.929	1951	1933
Lighting equipment	\$144,965,706	\$71,643,552	\$
Railway car appli- ances	52,016,000	9,017,000	4,561,000
Electroplating	23,727,916	13,084,240	3,500,000
Ferrous & non-ferrous	130, 131,022	20,000,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
products (Chicago)	23,198,000	2,000,000	2,400,000
Stocl barrels	23,145,897	12,969,675	6,767,430 <u>a</u> /
Cutlery	21,570,000	14,228,000 ,	8,913,000
Pools & implements	17,740,000 <u>b</u> /	13,817,000 ^c /	9,900,000
Vire & iron fence	17,628,000	11,752,000	5,8 7 5,541
litreous enomelod			
vare	17,531,402	14,386,068,	7,460,725,
Trenches and pliers	15,000,000	7,000,000 <u>d</u>	4,500,000 <u>d</u> /
live rope and strand	169,398 to	ons 66,684 to	ns 22,928 ton
Mubular split &			
pronged rivets	13,819,000 M	3,537,000 N	6,738,000 M
lood screws	11,245,7610/	7,788,352 C /	3,874,531 <u>d</u> /
Propery & carpet lard-			
ware	11,150,000 <u>b</u> /	10,002,075 <u>6</u> /	4,300,000
files and rasps	11,000,000	6,000,000	6,000,000
	·		

Source: Applications for Presentation of Codes of Fair Competition submitted by individual Code Authorities to the NRA.

a/ 7 months. c/ 1930. c/ 6 months.
b/ 1928 d/ Estimate submitted by Code Applicants.

Competing Products

The industries competing with the products of the Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry are widely diversified, but consist in the main of those industries namufacturing wood, plastic rubber, and other products which fall under the jurisdiction of other codes.

Market for the Industry's Products

The industries and trades using the products of the Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry are widely varied. For instance, it appears from the records of the Code Authority that in 1935 the Shoc Manufacturing Industry used \$792,477 worth of shoe shanks; the structural industries used \$2,500,000 worth of metallic vall structures and \$423,035 worth of metal safety treads; mining used \$212,099 worth of mine tools; and paper and pulp mills required \$2,822,241 worth of wire cloth.

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Chapter II

LABOR STATISTICS

Number of Wage Earners and Total Wares

The number of wage earners and estimated total annual wages paid by the entire industry are given in Table VIII. The data indicate an increase of 98.9 per cent in the annual wage rate as of September 16, 1934, above the annual wage rate of April 1, 1933.

TABLE VIII

Number of Wage Earners and Estimated Total Annual
Wage Payments at Current Rate, 1926-September, 1934

Period or Date	Number of Wage Earners	Annual Wage Payment: at Qurrent Rate
1926 average	273 , 927	
1929 average	413,053	
April 1, 1933	204,515	\$145,412,000월
July 15, 1933	250,284	
September 16, 1933	313 .7 52	
September 16, 1934	313,000 <u>b</u> /	289,225,0009
•	*	/ · ·

Source: Compiled by the Code Authority from the <u>Census of Manufactures</u>, and <u>Trend of Employment</u> published by the Bureau of Labor Statistics; other sources indicated in the footnotes. See Exhibits D, E, and F in the Appendix for further information.

- a/ Computed from the figure given as of September 16, 1934, adjusted for the per cent increase in total weekly payrolls as stated at the Public Hearing on the F.M.P. Code.
- b/ Computed from the percentage increase in employment as stated at the Public Hearing on the F.M.P. Code.
- c/ Computed from the annual weekly earnings as stated at the Public Hearing on the F.M.P. Code, adjusted for the total number of employees and the total number of weeks in a year.

Volume of employment and wages represented as percentages of the May, 1933, level are given in Table IX. This information taken from Exhibit D, Table VII, is not directly comparable to that given in Table VIII because of a difference in the periods covered.

TABLE IX

Volume of Employment and Wages (May 1973 = 100)

Period	Index of the Number of Employees	Index of Total Layrolls	
	1 (311001 01 111035) 00 5	200002 20072022	
May, 1933	100.0	100.0	
Feb. 1934	153.5	177.9	
June 1934	119.5	138.1	
Dec. 1934	127.2	153 . 8	
Average, 1934	127.0	151.4 a	

Source: Records of the Code Authority, based upon 2,700 to 3,000 reports from the industry. See Exhibit D, Table VII, in the Appendix, for further information.

a/ On basis of 36-hour week.

Actual Hourly Earnings

The average hourly earnings for unskilled wage earners as remorted by 60 concerns are given in Table X_\bullet

TABLE X

Average Hourly Earnings for Unskilled Wage Earners, 1926 - September, 1933 (60 concerns)

Period or	Average Hourly Earnings Per Unskilled Wage Earner
Date	(Cents)
1926 average	33.1
1929 əverage	35.1
1932 average	31.8
April 1, 1933	27.9
July 15. 1933	26.7
September 16, 1933	32 . 5

Source: Records of the Code Authority.

The average hourly earnings broken down by wage districts are given in Table $\text{XI}_{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$

TABLE XI

Average Hourly Earnings, by Wage Districts, 1929-1934
(In cents)

	All Reporting	Northern Wage	Southern Wage
Period or Date	Concerns	District	District
1926 average a/	50.3	pas e-p	
1929 average a/	54.9		
May 6, 1933 b/	43.2	43.2	35.0
Feb. 10, 1934 b/	50.5	50.6	41.0
June 15, 1934 b/	52.7	52.9	38.1
Dec. 15, 1934 b/	53.2	gra maj	
1934 average b7	52.7		

Source: Records of the Code Authority. Blanks indicate data not available.

- a/ Based upon reports from 60 concerns.
- b/ Based upon 2,700 to 3,000 reports; preliminary figures; 1934 figure represents average for 52 weeks.

Hours of Labor

The average hours worked per week per employee may be summarized as follows:

TABLE XII

Average Hours Worked Per Week, 1926-1934

	All Reporting	Northern Wage	Southern Wage
Period or Date	Concerns	District	District
1926 average <u>a</u> /	48.6	p==0	
1929 average a/	46.8	₩	-
1932 average a	31.9	~	
April 1, 1933 a/	34.9	_	-
May 6, 1933 b/	38.9	38.9	41.7
July 15, 1933 a/	43.8	_	
Sept. 16, 1953 a/	41.3	-	-
Feb. 10, 1934 b/	38.5	38.5	36.0
June 15, 1934 b \overline{I}	36.9	36,9	33.0
Dec. 15, 1934 b/	37.2	_	
1954 average b7	35.4	-	

Source: Records of the Code Authority. Blanks indicate data not available.

- a/ Based upon reports from 60 concerns,
- b/ Based upon 2,700 to 5,000 reports from the industry.

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The fact that average weekly hours in the northern wage district are identical with those for all reporting firms suggests that there are so few plants and employees in the southern district that their hours have no effect where an average is taken for the country as a whole. According to Exhibit B of the Appendix, however, some five per cent of all concerns—although not necessarily of all employees—are located in the southern area. The emplanation of the identity of the northern and the United States average may lie rather in the fact that the percentage of southern concerns reporting was too small to obtain proper weighting for that region in arriving at the final average.

Actual Weekly Earnings

The average weekly earnings for the Industry tabulated in Exhibit G of the Appendix show a decline, from May 1933 to December 1934, in the weekly earnings for the southern wage district, a substantial increase in the northern wage district, with a corresponding rise for all reporting concerns.

"Real": Earnings

The following analysis of "real" earnings is based on data submitted by the Code Authority.

TABLE XIII

Average Hourly Earnings per Unskilled
Wage Earner, 1926-September, 1933
(60 concerns)

Period or Date	Actual Earnings (cents per hour)	NRA Cost of Living Index (1929-100)	Real Earnings (cents per hr.)
1926 average	33 . 1	102.9	31.9
		100.0	35 . 1
1929 average	35 .1		T - T -
1952 average	71 . 8	74.9	42.5
April 1, 1933	27.9	68.4 (April)	40.8
July 15, 1933	26.7	72.7 (July)	36.7
Sept. 16, 1933	52.5	74.5 (Aug.)	43.6

Source: Records of the Code Authority, and NRA.

From the same source, and by means of the same method, the real weekly earnings for unskilled wage earners were computed as given in Table XIV which shows an average increase in real earnings per week of \$1.59, as compared with an average decrease of \$3.01 in actual average weekly earnings for the same class of wage earners and for the same period.

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TABLE XIV

Average Weekly Earnings per Unskilled Wage Earner, 1929 and September 1933 (60 concerns)

Period or Date	Actual Earnings (dollars per wek.)	IRA Cost of Living Index (1929=100)	Real Earn- ings (dollars per wk.)
1929 average	16.43	100.0	16.43
Sept. 1933	13.42	74.5 (Aug.)	18.02

Source: Records of the Code Authority.

Miscellaneous

In Exhibit H of the Appendix is given a tabulation of the relationship between the size of wage groups and the comparative number and percentage of reporting concerns and reported employees in each group for 1935; 5,337 concerns having a membership of 205,162 employees comprise the groupings. An additional 2.110 plants were not reported.

Exhibit H indicates that the majority of the concerns in the reporting industries employ less than ten workers.

Exhibit D of the Appendix presents a variety of statistical information regarding wages, employment, and hours of labor. Tables I and II of Exhibit D indicate that about 57 per cent of the wage earners covered, receive as much as 45 cents an hour and that about 55 per cent of the office workers earn as much as \$20.00 a week. Table VI of Exhibit D shows that about 43 per cent of the factory workers and about 71 per cent of the office employees work between 37.6 and 40 hours a week,

Table III of Exhibit D shows the number of workers by classes that, out of a total of 172,582, were receiving less than the minimum wage in 1934. In the northern wage district there were 2,1%2 such workers – 1.2 per cent of the total workers – while the southern district reported only 20 workers. However as has been suggested before 1/ the preponderant number of employees reported for the northern wage district is considered to be due to more complete reporting in that district rather than to the actual geographical distribution of employees.

Table IV of Exhibit D classifies these 172,582 workers into male and female, office and factory, and gives the total workers in each class, with their respective hours and earnings for the week ending December 15, 1934. Table V performs a similar service for the year of 1934 and gives, in addition, an analysis of the equivalent weeks worked on a 40-hour week basis and the average yearly earnings of each class.

^{1/} See above p. 9 and 10

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Effects of the Code on Labor

Table XV presents data on employment, payrolls, hours and wages for 1933 and 1934. These data are the result of a special tabulation undertaken by the Bureau of Labor Statistics, in cooperation with the NRA Research and Planning Division, to provide reliable information regarding the Industry as specifically defined by the Code. They are not strictly comparable with other data already given in this Chapter because of the difference in the size of the sample and in the source supplying the information.

Other material giving a comparison of the pre-Code and Code situation is given in Exhibits D. F. and G of the Appendix.

TABLE XV
Employment, Payrolls, Hours and Wages a/
1933-1934

				Average	Wag	es
	In	demes, 193	3 = 100	Hours	Aver-	Aver-
	Employ-	Pay-	Man-	Worked	age <u>e</u> /	age <u>c</u> /
Month <u>b</u> /	ment <u>c</u> /		Hours <u>d</u> /	Per Week e/	Hourly (cents)	Weekly (dollars)
193 <u>3</u>						
Jan.	84.5	75.9	73.7	31.7	45.4	15.12
Feb.	86.9	79.4	79.1	33.1	44.3	15.39
Mar.	82.1	69.0	70.9	31.4	44.6	13.97
Apr.	84.3	72.8	76.8	33.1	43.7	14.35
May	87.4	85.0	90.5	37.6	43.4	16.17
June	94.5	99.9	1.07.2	4]2	43.0	17,61
July	101.7	109.0	119.6	42.7	42.1	17.81
Aug.	112.3	117.3	119.6	38 .7	44.9	17.33
Sept.	116.5	120.8	116.1	36.2	48.4	17.24
Oct.	118.9	125.3	118.8	36.3	48.6	17.53
Nov.	116.9	123.8	116.2	36.1	48.5	17.31
Dec.	114.0	122.1	111.4	35.5	49.9	17.60
Average	100.00	100.00	100.00	36.1	45.6	16.45
1934						
Jan.	110.0	115.2	104.2	34.4	50.5	17.18
Feb.	114.7	126,0	113.9	36.1	50,1	18.14
Mar.	120.5	136.5	123.4	37.2	50.2	18.69
Apr.	124.0	142.4	127.3	3 7. 3	50.9	18.95
May	124.5	144,4	126.4	36.9	51.7	19.07
June	121.1	138.1	122.0	36.6	51.5	18,75
July	115,4	124.6	109.0	34.3	52.7	17,80
Aug.	112.9	122.0	104.7	33 ,7	52.9	17.82
Sept.	111.1	117.9	101.6	35.2	53.1	17.69
Oct.	112.2	124.7	107.5	34,8	52.9	18.44
Nov.	113.5	128.9	110.6	35.4	53.0	18.80
Dec.	116.2	139,0	117.7	36.8	53.7	19.79
Average	116.3	130.0	114.0	35.6	51.9	18.43

(Continued)

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Source: Unpublished data secured by the bureau of Labor Statistics in cooperation with the Division of Research and Planning, FRA.

- a/ Reporting establishments considered to be almost completely covered by the Fabricated Metal Products Code.
- b/ Figures reported were for the payroll period nearest the 15th of the month.
- c/ Based upon a representative sample covering an average of 525 establishments and nearly 64,000 employees in 1933. The sample was somewhat larger in 1934.
- <u>a</u>/ Computed: Index of employment times average hours worked per week reduced to 1933 = 100.
- e/ Based upon a representative sample covering an average of 365 establishments and nearly 49,000 employees in 1933. The sample was considerably larger in 1954.

Employees and Wares by States

No statistics are available covering the total number of employees and the total amount of annual wages by states; but in Exhibit I of the Appendix is shown the number of employees and the annual earnings for 1934 by states for the 2,762 concerns reporting this information to the Code Authority. These 2,762 concerns, with 162,302 employees and an annual payroll of \$160,571,947, can be assumed to constitute a fairly representative sample of concerns conservatively estimated to have had 225,000 ½ employees in December 1934, and a calculated payroll of approximately \$290,000,000.

A comparison of Exhibit B with Exhibit I indicates that these data are reported more completely for some states than for others, and Exhibit I can therefore be considered only as a rough indicator of the relative importance of the various states.

Wages Compared with Total Value of Product

As shown in Table XVI, wages represent about 27 or 28 per cent of the total value of the product.

TABLE XVI

Fercentage Relationship of Wages to the Value of Product, 1926-1932

	Per Cent Wages are of
Date	Total Value of Product
1926	27.8
1927	28.1
1929	26.7
1932	2 0. 9
-	

Source: Estimates of the Fabricated Metal Products Federation.

^{1/} See Exhibit A.fontnotes "b" and "c."
2/ See Table VIII. above.

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Labor Complaints

Between the dates of May 9, 1934, and November 23, 1934, the Compliance Division listed the following labor complaints of infractions of the Fabricated Metal Products Code:

Type of Violations	Number of Complaints
Wage violations	
Art. III - Wages Reducing wages Not paid for overtime Holding back part of wage Seeking back wages Total wage violations	48 1 22 1 7
Hour violations	
Art. III - Hours Hours and wages Working 7 days a week Art. IV - Falsifying time cards	33 53 4 <u>1</u>
Total hour violations Other complaints	91
Art. III - Home work Classification Section 7-A Child labor Art. IV - Labor provisions not posted Discrimination and intimida-	1 6 4 2 2
tion Miscellaneous subjects	7 <u>4</u>
Total other complaints	26
Grand total number, all complaints	196

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Chapter III

MATERIALS: RAW AUTO SEMI-PROCESSED

Principal Materials

The principal materials used in the Fabricated Matal Products Manufacturing and Metal Finishing and Metal Coating Industry are iron, steel and ferrous alloys in the form of billets, bars, rods, sheets and shapes; copper in a variety of forms; lead, zinc, tin, and aluminum. A large proportion of these materials enter into the Industry in the secondary form and emerge as the finished product for the ultimate consumer.

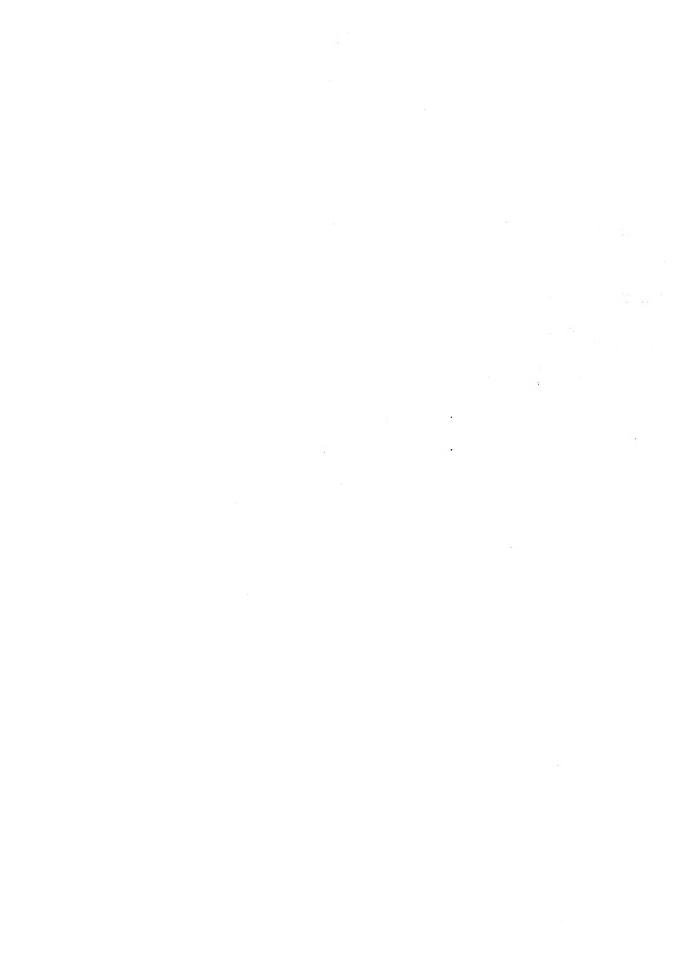
Source of Materials and Equipment

No statistics are available as remards the source of these materials, their volume or their amounts, but it may be assured that the iron, steel and ferrous alloy fabricators draw their material from the Pittsburgh and Birmingham areas, the Lake States, and from the small imports of ferrous products shipped in from the European industrial areas; that they draw on the Western and Lake States, Canada, and Chile as their principal sources of copper; on the Western States, Central States, Canada, and Mexico for lead; on the Western States, Central States, Canada, and Europe for zinc; on the Straits Settlements (Malaya) for tin; and on the New York, Tennessee, and North Carolina croducers for aluminum.

The machinery and equipment used in the Industry is manufactured primarily in the machine-manufacturing and machine-tool centers of the Southern New England, New York, Pennsylvania, and North Central States areas.

Cost of Materials Compared with Total Value of Product

On the statement of the Code Authority, the cost of materials plus the costs of management comprise two-thirds the value of the product.



Chapter IV

PRODUCTION AND DISTRIBUTION

Because of the lack of Code Authority information concerning production and distribution, and the overlapping character of Census and Department of Commerce data, practically no reliable information is available on production and distribution for the Industry as defined by this Code. Such relevant data as are available are given in Tables VI and VII above. The Code Authority advises that there have been no important shifts in the centers of production from 1929 to

Advertising

The Code Authority advises that advertising is conducted in all media, and that some is local and some national in scope.

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Chapter T

TRADE PRACTICES

Subscittent to the a triblishment of the Coi, there existed various practices which called not elegrer interpretation of Code provisions and more definite reharence to administrative policies.

Certain as more of the Complete Wire and Iron Ferce Industry attenuted to directive the strict abservance of filed delivery prices through the utilization of derives who, by relating to customers a portion of the dealer's standard discount, out order to the consumer.

The Code Anticrity of the Job Galvenining Moral Counting Industry attempted so closely to restrict the form of price filling data as to be instrumental in fixing criter.

The Ocide Anthonity of the Metallic Wall Structure Industry contended that certain additional provisions are a recessary as follows: first, that there should be a ten-or realization of in filing prices; second, that prices on special requirements or well as standard requirements should be filed; third, that a persite spatial whould be required to an vont selling below cost; and, fourth, that a limitation on free samples should be inaugurated to allow the small benefit status to more readily compals with those large manuscturers able to large small schools, claborate free samples. The Cole Authority further requested permission to associate and operate a Central Quantity Burreau to standardize quantifies and linear of meterials and services required for each individual job.

The Code Authority for the Cutlery, Henicure Indicate, and Painters' and Paperhangers' Tool Menuinet ming Industry requested a structure the price-filing provisions of the Code because of the complemities of products and the difficulty in classifying them as remarks quality. It further requested a stay in the determination of a uniform method of accounting, as well as a stay in the promibition against sales below cost. Amendments were proposed limiting the return of unsatisfactory membandise and the unlimited guaranteeing of quality merchandise.

In the Milk and Ico Cream Can Mann facturing Industry an attempt was made to restrict the form of sales contract to certain evenues of distribution, to restrict the allowance on cash discounts, and to restrict the classification of consumers.

In general, it is also red that there existed a strong tendency for the authorities either to exceed their properties functions or also to favor certain industrial classes in their interpretations of the Coder. The industrialist, on his side, sought to maintain his aim managed practices as ethical and within the meaning of the her affair brade, "get to consider the practices of his competitors as unjustifiable restriction of his liberties.

GENERAL INFORMATION

Methods of Transportation Used

According to the experience of the Economic Advicer the ferrous and non-ferrous metals that enter into the manufacture of Fabricated Metal Products are shipped from the plants undertaking the initial conversion into the required forms, by railroad, water, or truck, to the plants of the Fabricated metal Products Manufacturers. There the punching, pressing, molding, machining, and conditioning operations create the form in which the product is again shipped - by means of railroad, or truck, in carload or less-than-carload lots - to the manufacturers a sambling the products with other commodities, or to the wholesale and retail distributors throughout this country and abroad.

Trade Association Activity

According to the Code Authority the trade associations and cooperative activities within this Industry vary. Some associations are of long standing while others came into being only with the Code Authority and the National Recovery Act.

Relationship between Labor and Management

Again according to the Code Authority, the relationship between labor and management within the Industry appears cordial; as the ratio of one code infraction per 2,519 employees for the period from May 9, 1934 to November 24, 1934, tends to indicate. 1/

Trade Union Activity

There has been little unionization among labor and such as has existed has been confined for the most part to company unions. The Code Authority knows of no organization of different labor groups in this Industry. The American Federation of Labor has unionized very few shops. This lack of trade union activity has been ascribed to the fair treatment accorded employees.

Effect of the Code on the Industry

The Code Authority affirms that the Code of Fair Competition has had an important effect upon the Industry. It has materially aided in increasing employment and wages and in decreasing hours as a review of the preceding sections of this report - particularly Chapter II --- will demonstrate.

Use of Trade Marks

According to the Code Authority, practically all the products of this Industry are trade marked.

^{1/} Compliance Division Report, December 10, 1934.

Foreign Competition

Again on the testimony of the Code Authority, some foreign imports, such as steel pins, wire cloth, and electric shells for electric light bulbs, have proven a material menacc. In the majority of other fields, foreign imports have had little, if any, effect on the Industry.

List of Experts

As regards technical experts in the Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry, Mr. W. A. Fisher of the Code Authority has furnished the following names and information:

- A. M. Ferry, 1427 I Street, Washington, D. C. Has had 20 years experience in trade associations and is an expert on wire cloth.
- D. S. Hunter, Keith Bldg., Cleveland, Ohio.
 Qualified as an authority on steel barrels
 and drums, galvanized wire and fabricated
 metal croducts in general.
- William Goss, Scovill Manufacturing Co.,
 Waterbury, Connecticut.
 A qualified industrialist.
- Leonard Mortimer, Interstate Tariff Commission.
 An expert on all metals.
- Joseph E. Peterson, Ref. George Myrick, Jr., Chief, Former Economic Adviser on Fabricated Metal Products Code.
- W. A. Fisher, 729 15th Street, N. W., Washington, D. C.
 Statistician, Code Authority for the Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry.

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SOURCES

All statistical data in this report, unless otherwise specifically identified, have been couniled for this division by the Code Authority of the subject Industry. All opinions, unless specifically identified, have been based upon the data of the Code Authority, the "Applications for Presentation of Codes of Fair Cornetition," the Research and Planning Division report entitled "Laterial Dearing on the Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry," and upon the experience of the writer.



APPENDIX

List of Exhibits (as submitted by the Code Authority)

- Exhibit ASize of Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry, 1928-1933.
- Exhibit B Number of Concerns Listed with the Code Authority of the Fabricated Metal Products Manufacturing and Metal Finish ing and Metal Coating Industry, by States.
- Exhibit C Data for Fabricated Metal Products Industry for Use of Durable Goods Industries Committee.
- Exhibit DFabricated Metal Products Hamufacturing and Metal Finishing and Metal Coating Industry.

Table I....Distribution of Factory Workers
According to Wage Grows

Table II...Distribution of Office Employees According to Wage Grows

Table III..Workers Receiving Less Than the Minimum Wage

Table IV... Volume of Employment and Wages During Week Ending December 15, 1934.

Table V....Volume of Employment and Wages During Year of 1934.

Table VI...Distribution of Workers
According to Hour Groups
Table VII..Volume of Employment and Wages

- Exhibit E Average Number of Wage Earners in the Fabricated Metal Products Manufacturing and Metal Finishing and Coating Industry, 1926-1933. (Two tables.)
- Exhibit F Comparison of Changes in Wages and Employment in the Fabricated Metal Products Industry as Disclosed by Various Sets of Data.
- Exhibit G Average Weekly Earnings Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry, May 6, 1933 to December 15, 1934.
- Exhibit H Number of Concerns and Rumber of Employees Reported, Form 10 and Other Sources by Size Groups.
- Exhibit I Classification by States of Mumber of Employees and Annual Earnings for 1934 Fabricated Metal Products and Metal Finishing and Metal Coating Industry.
- Exhibit J Subsidiaries, Branch Plants, Sales Offices and Warehouses of Concerns in the Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry.

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81se of Fabricated Metal Froducts Manufacturing and Metal Finishing and Metal Coating Industry, 1925-1933 (Includes only those products groups on attached list) g/

		Invest	Invested Capital		Salas			Production Capacity				
cars	No. of Concerns	Humber of	Employees No. Per Concern	Amount Dollars	Amt.Per Concern Dollars	Amt. Per Rapl. Dols.	Amount Dollare	Amt.Per Concern Pollars	Amt. Per Empl. Dols.	Amount Dollars	Amt.Per Concern Dollars	Ant. Per Expl Dela
1926	3,145	155,796	49.5	698, 200, 214	222,003	4, 462	626,626,444	199, 245	4,022	813,377,159	258,625	3,221
1929	3,193	164,520	51.5	737, 242, 263	230,893	4,461	686, 799, 203	215,095	4,175	913,413,597	286,068	5.55
1930	3,112	145,465	46.7	712,164,077	228,851	4,896	559,178,640	179,685	3, 544	887, 463, 233	265,175	6,10
1931	3,054	126,612	41.5	678,603 283	222, 201	5,460	394, 304, 511	129,111	3,114	873,669,701	286,074	6,90
1932	2,984	108,945	36.5	643,147,465	215,532	5,903	280,225,066	93,909	2,572	856,807,075	287 134	7,56
1933	2,909 b/	112,633 0/	38.7	625,332,097	214,965	5,552	265,061,638	91,118	2,353	782,012,174	268,825	6,94

Source: Compiled by the Code Authority from information supplied it by the Various groups listed, on Form 504Application for Presentation of a Code to NRA.

on May 21, 1935, this figure can be accurately stated to be 7,075 for the Industry as a whole-

For Dec. 1934, this figure may be conservatively estimated to be 225,000 for the Industry as a whole.

See Exhibit I.

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The attached data represent information from only a portion of the Fabricated Metal Products Mamufacturing and Metal Finishing and Metal Coating Industry. The data represent groups manufacturing the following products:

Aluminum Wares Cutlery Cut Tacks, Wire Tacks Fire Pots & Blow Torches Lift Trucks & Portable Elevators Wire Cotton Tie Buckles Brass Forgings Bright Wire Goods Chain Chucks Drapery & Carpet Hardware Electric Industrial Trucks Electro Plating & Metal Polishing Files Flexible lietal Hose & Tubing Forged Tools Galvanized Ware Tools & Implements Hack Saws Hand Bag Frames Hand Chain Hoist Industrial Wire Cloth Wrenches Insulated Containers Liquid Fuel Appliances Lock & Builders Hardware Machine Screw Mut Machinist Precision Tools Metal Safety Tread Milk & Ice Cream Cans Mine Tools Disolay Equipment Augur Bits Cutting Dies Job Galvanizing Metal Spinning & Stamping

Screw Machine Products Steel Fartition Open Steel Flooring Non-Ferrous Hot Water Tanks Perforated Metal Pipe Tools Porcelain Enamel Power & Gang Lawn Mowers Railway Brake Beams Railway Car Appliances Refrigeration Valves & Fittings Shoe Shanks Snao Fasteners Sochet Screws Steel Barrels Stcel Package Thermostatic Bi Metal Ash Can Shoe Hachinery Can Screws Gold Leaf Machine Screws Wood Screws Vises Vitreous Enamel Ware Washing Machine Parts Wire Cloth Wire Rope & Strand Wheelbarrow Advertising Metal Sign & Display Equipment Artistic Lighting Equipment Corset Steel Furnace Pipe & Elbows Hog Rings Tachile Blocks Wire & Iron Fence

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Number of Concerns Listed with the Code Authority of the Fabricated Metal Products Hamufacturing and Metal Finishing and Metal Coating Industry by States

State	No. of Concerns
Alabama	22
Arizona	5
Arkansas	12
California	450
Colorado	33
Connecticut	355
Dolaware	5 26
District of Columbia	26
Florida	28
Georgia	27
Idaho	ĺ
Illinois	786
Indiana	i7 ¹ +
Iowa	514
Kansas	20
Kentucky	27
kentucky Louisiana	19
	25
Maine	25 56
Haryland	50
Massachusetts	553 707
Michigan	323
Minnesota	113
Hississippi	3
Missouri	199
Montana	1
Hebracka	31+
New Haupshire	30
Hew Jersey	349
Hew Mickieo	1,383
New York N. Carolina	15
N. Dakota	. 3
Ohio	673
Oklahoma	29
Oregon	55 602
Pennsylvania Rhode Island	80
S. Carolina	Ŭ
S. Daltota	Ĺ.
Tonnessee	4
Tomas	ଞ୍ଚିତ 1 1 1 72 76
Ttalı Voznant	11
Vermont Virginia	11 21 62
Washington	62
W. Virginia	21
Wisconsin	179
Total	7 , 075
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Source: Compiled by the Gode Bode riby

Data for Fabricated Metal Products Industry For Use of Darable Goods Industries Committee Financial Information

	1929	1932	Per cent 1932 is ef 1929	1933	Per cent 1933 is of 1929	Fer cent 1933 is of 1932
water of Companies Reporting	166	166	100.0	166	100.0	109.0
erreat accets at end of year named: Include-Oach, accounts and notes receivable less reserves, Inventories less reserves, Securities at market	\$ 129,852,362	\$ 89,903,052	69.2	\$ 91, \$06,199	70.4	161.7
Tree leasts at end of year named: Include-Land, Faildings, Machinery and Equipment less reserves and depreciation	90,290,641	83, 5 69 , 306	92.9	62,144, <i>1</i> 75	66.8	78.1
etal Assets	220, 163, 403	173,772,356	76.9	153,550, 394	69.8	48.4
Purrent liabilities at end of year named: lactude-Accounts payable, berrowed money, Tales accraed and payable, accraed payrells, and dividends declared and pay- able	27,709,955	22, 69 0, 20 5	51. 9	24,688,047	69. 1	106.5
lotal Assets less liabilities	192,433,448	151,062,153	74.5	126, 562, 447	6 9. 9 6	\$5. }
Capital at and of year named: Include-Common and Preferred stocks at per of declared value. Capital Notes and Bonds.	145,001,007	130,450,272	89.96	125,147,364	67.0	96.7
Purplus at end of year	61,985,019	30, 253, 049	46.6	28, 224, 610	45.5	93.3
let Profit or Loss for year	19,715,369	(Lees) 13,744,582	-169.7	(Less) 3,767,331	-119.1	-27.4 (Los
Sales for Your	247, 367, 291	97,990,983	39.6	113,130,327	45.7	115.4



Data for Fabricated Metal Products Industry Tor Tao of Durable Goods Industries Committee Wages and Moure

	7ely 1929	February 1933	For cent Feb. 1933 ie of July 1929	Paly 1933	Per eest July 1933 is es July 1929	Sept. 1933	Per seat Sept. 1933 le sf Paly 1929
mader of Josephiles Reporting	169	169		169		169	
etal Funder Exployees (Any rest in the designated month)	4, 337	25, 497	57-5	29 ,134	65.7	37,644	64.9
rerege Tarnings Germon Labor For how of Shop Amployees paid on 'bourly basic including	40.9	33.2	61.2	32.5	79.5	36.9	90.2
piece work earnings All other labor	56.9	45.4	79.8	44.2	77.7	49.1	26 . 3
Torage bours per seek notably sorted by Shop Papleyses paid on bourly and for piece work basis	46.6	33.3	64.5	39.2	20.7	35.8	73.7
verage Hours per west worked by Selary Exployees	神神。故	42.0		42.2		39.9	

Source: Campiled by the Code Authority.

Reports used in F. M. P. F. Compilation For Use of Durable Goods Industries Committee

Individuals

F. B. Williams Co. C. B. Porter Co. Berger Bros. Co. Emil Steinhorst & Sons By Products Steel Corp. Standards Brass Mfg. Co. Marquette Metal Products Co. National Standard Co. The Seng Co. Floyd Mfg. Co. Bridgeport Brass Co. Stefco Steel Co. Lyons Mfg. Co. Dietz Co. Homestead Valve Mfg. Co. Durant Mfg. Co. Bowen Prod. Corp. American Casting & Mfg. Co. Ashton Valve Co. Torrey Roller Bushing Dill Mfg. Co. Glascock Bros. Mfg. Co. Tuttle & Bailey, Inc. Consolidated Safety Pin Co. Oster-Williams Lufkin Rule Co. Manning, Maxwell & Moore Hauch Mig. Co. Roofing & Corrugating Co. Nat'l Metal Prod. Co. New Delphos Mfg. Co. Superior Sheet Metal Wis. Central Valve Mfr. Co. Chicago Blow Pipe Co. W. H. Handy & Sons Co. Torrington Mfg. Co. Veeder Root, Inc.

Associations

American Cutlery
Lock & Builders
Electrical Industrial Truck
Hand Chain Hoist
General Tool & Implement
D. S. Hunter & Associates
Cycle Parts & Accessories

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Fabricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry (2946 co (2946 complete reports for December, 1934 and Annual 1934)

TABLE I

Distribution of Factory Workers According to Wage Groups

Hourly Wage Rate	Number of Workers	Per Cent of Total	Cunulative Per Cent
Under 24.0¢	75	0.5	
24.0 to 27.96	440	•05 •23	• 3 3
28.0 to 31.9¢	1,747	1.12	1.45
32.0 to 34.9¢	2,008	1.28	2.73
35.0 to 39.9¢	20,131	12.86	15.39
40.0 to 44.9¢	43,200	27.61	43.20
45.0 to 49.9¢	21,581	13.79	56.99
50.0 to 54.9%	18,490	11.82	68.81
55.0 to 59.9¢	13,012	8.32	77.13
60.0 to 69.9¢	18,138	11.59	88 .7 3
70.0 to 79.9¢	9,867	6.31	95.03
80.0 and over	7,772	4.97	100.00
Total	156,461	100.00	

TABLE II

Distribution of Office Employees According to Wage Groups

Actual Weekly Wage	Number of Employees	Per Cent of Total	Cumulative Per Cent
Under \$9.60	121	. 75	
\$9.60 to 11.19	76	.47	1.22
\$11.20 to 11.99	99		
\$12.00 to 13.99	248	.61	1.83 3. 3 7
	1,238	1.54	
\$14.00 to 14.49	•	7.99	11.36
\$14.50 to 14.99	232	1.44	12.80
\$15.00 to 17.99	3,639	22.57	35.37
\$18.00 to 19.99	1,562	9.69	45.06
\$20.00 to 21.99	1,569	9.73	54.79
\$22.00 to 24.99	1,552	9,63	64.42
\$25.00 to 29.99	2,160	13.40	77.82
\$30.00 to 34.00	1,505	9.34	87.16
\$35.00 and over	2,070	12.84	100.00
Total	16,121	100.00	

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TABLE III

Workers Receiving Less Than Minimum Wage

	<u> Morthern Word</u> Word Nate	Humber of	Southern Ward	Humber of
Apprentices Male learners; male	40% per hr.	181	35 ϕ per hr.	0
handicapped workers Femalo logrners; femalo	52¢ per hr.	125	28¢ per hr.	1
. handicavised workers	28% per hr.	59	240 per lir.	0
Watchmen Hale factory workers; truckmen; maintenance	52¢ per hr.	8.3	23¢ per hr.	0
nen	40, per hr.	500	35¢ per hr.	17
Female factory workers	35% per hr.	:02	30¢ oer hr.	0
Office boys and girls All other office work-	\$10 per wh.	79	\$13 per wlr.	0
ers	\$15 per wh.	634	\$15 per wh.	2

Volume of Employment and Wages During Week Ending December 15, 1934

Class of Workers	Number of Workers	Total Non- Hours Worked	Total Actual Payroll	Average Weekly Hours	Average Hourly Earnings	Average Weeltly Earnings
Factory, male Factory, female Factory, all Office, all	151,555 25,128 156,461 16,121	•	, ,	57.0 58.1	54.8¢ 50.0¢ 52.3¢ 31.0¢	\$21.01 14.42 19.95 23.99
Total workers	172,582	6,598,801	5 , 503 , 038	38.2	55.24	20.35

Volume of Employment and Wages During Tear of 1934

Clase of torkers	Number of Workers	Total Man hours Worked	Total Actual Fayroll	Average Weekly Hours (52 Wks.)	Average Bourly Earnings	Average Weekly Earnings	Average Sours Per Year	Average number of 40 hour weeks per year per employee	Average Yearly Earnings
Factory	156,339	286, 197, 745	8147,646,639	35.2	51.64	\$18.16	1,831	45.8	\$ 944
Office	15,960	30,697,592	\$ 19,414,063	37.0	63.26	\$23,39	1,923	44.1	\$1,216
Total	172, 299	316,895,337	\$167,060,702	35. A	52.76	\$18.65	1,639	46.0	\$ 970

TABLE VI Distribution of Workers According to Hour Groups

	Factory Exployees			Office Replayees		
Actual Hours Worked	Number of Forkers	Per cent of Total	Cumulative Per cent	Humber of Horkers	Per cent of Total	Cumulative Per cent
20.0 hours and under	8, 359	5.34	5.34	205	1.27	1.27
20.1 to 25.0 hours 25.1 to 30.0	7,405 6,626	4.73	10.07	121	.75	2.02
30.1 to 35.0 " 35.1 to 37.5 "	17,339 7,585	11.08	25.39 30.24	668 1,138	4.14 7.06	6.70 13.76
37.6 to 40.0 "	66,635	42.59	72.83	11,417	70.82	84.58
40.1 to 42.5 " 42.6 to 45.0 "	11,020 10,131	7.04 6.48	79.87 86.35	1,095	5.75	91.37 97.12
45.1 to 48.0 "	10,959	7.00	93.35 97.42	220 243	1.37 1.51	9 8. 49
45.1 to 56.0 " 56.1 and over	6,993 3,409	2.18	100.00)-	
fotal	156, 461	100.00		16,121	100.00	

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TABLE VII

Volume of Employment and Wages

Date	Number of Employees	Total Nan-Hours Vorked	Total Payroll
May 1933	100.0	100.0	100.0
Feb. 1934	153.5	150.1	177.9
June 1934	119.5	11.3.3	138.1
Dec. 1934	127.2	124.9	153.8
Annual 1934	127.0	124.0 a/	151.4

a/ On basis of 36 hour week.

Source: Compiled by the Code Authority.

TABLE I

Average Number of Wage Earners in the
Fabricated Metal Products Hamufacturing and
Metal Finishing and Coating Industry, 1926-1933

Date (1)	Number of Wage Earners (2)	Por Cent of 1926 (3)	Per Cent Increase Over April 1, 1933 (4)
1926	373,927	100,0	85.3
	413,053	109,0	102.0
	204,515	55,5	
	250,284	65,1	22.1:
	313,752	32,3	53.1!

Source: Compiled by the Code Authority from U. S. Census of Manufactures, and Bureau of Labor Statistics data.

A Result of projection of per cent in column 4, Table II.

TABLE II

Average Number of Wage Earners on the Payroll of the Fabricated Hetal Froducts Manufacturing and Metal Finishing and Coating Industry, 1926-1933 a/ (Representative concerns)

Date (1)	Number of Firms Reporting (2)	Number of Mage Earners (3)	Fer Cent of 1926 (4)	Per Cent In- crease Over Abril 1, 1933 (5)
1926 1929	60 60	20,850 21,157	100.0	59.2
April 1, 1933 July 15, 1933 Sept. 16, 1933	6 0 60 60	11,17/ 15,76 17,179	57. 57.	25.3 53.0

Source: Compiled by the Code Authority. a/ For typical weeks, except there other has specified.

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Fabricated Metal Products Industry as Disclosed by Various Sets of Data Companison of Changes in Wages and Employment in the

හි 10 10 11	Statements at Public Ecaring on 7. W. P. Code. 1/ (Junges April 1, 1957 to Sectember 15, 1934)	Actual deta collected from 2,698 regorts on Form 7 (Changes May 6, 1953 to Tebruary 14, 1934)	Netional industrial Conference Board Ra- ports on Foundries and Machine Shops. (Changes May 1, 1975 to February, 1857)
Eucher of Torkers Lordners Torkers Averes Teell Fours Lot Ind Portion Averes Tourly Fours Averes Tourly Fours Averes Teelly Coming Averes Teelly Coming	+ 53.0% + 12.3% + 16.5% + 16.5% + 30.1% 6/ \$17.77 d/	++1 ++ +	+++ ++ + + + + + + + + + + + + + + + +

Source: Congiled or the Jode Authority.

Inselon regorantion to regrecentative concerns.

5.0 when reducted on basis of Mr. Fritchard's enerience.

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Exhibit G

Average Wookly Earnings
Febricated Metal Products Manufacturing and
Metal Finishing and Metal Soction Industry
(May 5, 1935 to Dec. 15, 1934)

Period	Northern Mage District	Southern Wage District	All Reporting Firms
Mag- C, 1933	\$16.82	\$14.50	ç16.81
Feb. 10, 1934	1.9 • 50	14.79	19.48
June 15, 1934	19.54	157	19.14
Dec. 15, 1934	not se	gregated	20.33
1934 Annual <u>a</u> /	not se	gregated	1 8.65

Source: Compiled by the Code Authority from the Industry; December and Annual Figures preliminary.

a/ For 52 weeks.

		Form 10		Concerns	Paporting On:	Other Sources		Total Source	88
size Group	Number	Per cent of Total	Cumulative Per cent	Number	Per cent of fotal	Cumulative Per cent	Number	Per cent of Total	Oumulative Per cent
0 1 5 6-10	102 1,032 543	2.5 28 7 20.6	2.8 30.8 45.5 66.1	185 700 264 221	11.2 42.5 16.0	11.2 53.7 69	287 1,732 807	5 4 32.5 15.1	37 9 53
11-25 26-50 51-75 76-100	751 463 217 148	12.5 5.9 4 0	78.6 84.5 85.5	127 47 28	13.4 7.7 2.9 1.7	83.1 90.8 93.7 95.4	982 590 264 176	15.4 11 1 4 9	71.4 52.5 57 4 90.7
101-150 151 200 201-300	148 70 87	4.0 1.0 2.4	92.5 94.6 96.8	28 13 14	1 7 .8	97.1 97.9 98. 8	176 83 101	3.3 1.5 1.9	94 0 95 2 97.4
301-400 401 500 501-1000 1000≠	26 41 10	1.1 .7 1.1	97.9 98.6 99.7 100.0	7 6 3	.2	99.2 99.8 100 0	49 30 47 13	.6	98 3 98.9 99.8 100.0
Total	3,690	100.0		1,647	100.0		5,337	00.0	23014

Form 10			Number of Employees Reported On: Other Sources			Total Sour es			
Size Group	Number	Per cent of Total	Sumulative Per cent	Number	Per cent of Total	Cumulative Per cent	Number	Per cent of Total	Cumulative Per cent
0 1-5 6-10 11-25 26-50 51-75 76-100 101-150 151-200 201-300 301-400 401-500 501-1000 1000+	2,778 4,183 12,678 16,569 13,742 18,285 11,792 14,285 11,485 28,175 16,756	05390499447231 1000	1.5 3.8 10.7 19.7 27.1 34.0 50.3 51.7 69.6 90.9	1,635 1,987 3,691 4,915 4,006 3,915 4,006 3,324 3,505 1,680 4,136 40,705	0 5 9 1 8 9 1 8 9 1 8 9 5 7 6 5 9 1 1 0 0 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4.5 9.5 18.5 36.5 36.5 4.5 50.5 75.0 75.0 75.1 89.1 100.0	0 4,6170 16,269 16,955 16,955 16,848 14,116 21,734 14,655 13,165 13,165 13,165 21,192 21,192 225,162	0 0 7 2 3 4 5 7 7 9 6 0 7 5 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0 4.7 11.9 21.2 25.6 36.1 45.8 52.1 63.0 76.3 90.6

Source: Compiled by the One Authority.

In addition there were no reports received from approximately 2,110 plants which brings the total number of plants in the industry to 7,447 (7,170 concerns).

Classification by States of Number of Employees and Annual Earnings for 1934 Febricated Metal Products Manufacturing and Metal Finishing and Metal Coating Industry (As reported on Code Authority's form 10 and compiled by it)

State	Musber of Recorts	Number of Employees	Annual Earnings 1934
00000		13/17/10,y e C 5	
Alabama	jt	120	\$ 77,161
Arkansas	2	163	108,254
Cal ifornia	96	2,392	2,347,090
Colorado	11	123	90,604
Connecticut	215	<i>33</i> ,273	30,750,246
Delaware	2	32	34,761
Dist. of Columbia	2 4 2 7	43	65,869
Florida	2	7	4,407 134,413
Georgia	7	34 7	134,413
Illinois	351	12 , 43i	15,653,556
Indiana	-7ε	4,031	3,505,74s
Iowa	15	259	220,766
Kansas	4	467	495,153
Kentacizy		608	559,897
Louisiana	7	94	54 , 689
Maine	1½ 3 6	186	173,260
Maryland	21	1,228	1,087,222
Massachusetts	210	11,533	
	136		11,918,357
lichigan		3,058	9,393,828
Minnesota	33 2 78 4	1,137	1,087,041 3,847
Mississippi		13 7 7 00	
Missouri	(0	3 ,7 20	3,446,624
Nebraska		258	35,6 ¹ 3
New Hamshire	15	731	E05, E60
New Jersey	151	7,562	8,084,059
New York	386	15,260	12,745,105
North Carolina	1	11	14,171
Worth Dakota	1	2	1,438
Ohio	377	a5 , 6 7 0	25,371,041
Oltlahoma	3	48	44,878
Oregon	13	117	23,762
Pennsylvania	313	16,724	15,681,038
Rkode Island	34	3 , 034	2,859,555
South Carolina	1	7	jó , 508
<u> Tennessee</u>	15	1,178	866, 288
lexas	22	534	306 ,1 40
vermont	5 5 20	94	81,828
Virginia	5	122	102,237
Washington	20	262	279,556
Nest Virginia	12	3,662	3,316,568
Wisconsin	90	7,252	8,641,379
Total	2,7Gn	7 . , 172	160,571,947

Source: Compiled by the Code Authority.

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Exhibit J

Subsidiaries, Branch Flants, Sales Offices and Warehouses of Concerns in the Fabricated Mutal Fromact: Monufacturing and Letal Finishing and Metal Coating Industry (As indicated by the records of the Code Authority, and comiled by it)

Aluminum Goods Mig. Co. Manitowoc, Wis.

Aluminam Specialty Co. Manitowoc, Wis.

American Brass Co. Waterbury, Conn.

Flonts: Two Rivers, Wis. Manitowoc, Wis.

Branch: Chilton, Wis.

Tills & Factories Ansonia, Conn. Buffalo, N. T. Buffalo, H. Y. Detroit, Hich. Kenosha, Wis. Torrington, Conn. Waterbury, Conn. (Waterbury Brass

Goods Corp.) Waterbury, Comm. (American Hetal

Hose Co.)

Offices & Agencies New York, N. Y. Washington, D. C. Hewerk, N. J. Providence, R. I. Atlanta, Ga. Cleveland, Ohio Chicago, Ill. Cinclimati, Ohio Dagton, Ohio Thila., Pa. Boston, Mass. St. Louis, No. Houston, Texas Pittsburgh, Pa. San Francisco, Calif.

American Car & Foundry Co. New York City

Plants:

Detroit, Mich.

From: Steel Dept., Milton, Pa.

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American Chain Co., Inc. Associate Companies: Bridgeport, Conn. Andrew C. Campbell Div. Manley Mfg. Div. Page Steel & Wire Div., Honesson, Pa. Wright life. Div., York, In. American Cable Co., Ind. Offices: Los Angeles, Calif. Atlanta, Ga. San Francisco, Calif. Pittsburgh, Pa. Houston, Texas Chicago, Ill. Hew York City Philadelphia, Pa. Ford Chain Block Co. Hazard Wire Rope Co. Highland Iron & Steel Co. Owen Silent Spring Co., Inc. Reading-Pratt & Cady Co., Ind. Hartford, Conn. Rubber Shock Insulator Corp. Branches: Hartford, Conn. Bridgeport, Conn. Braddock, Pa. York, Pa. American Forl & Hoe Co. Branches: Ashtabula, Ohio Wallingford, Vt. Connectut, Ohio Ft. Tadison, Iowa Gemera, Ohio Mermhis, Tenn. Charleston, W. Va. Dunkirk, M. Y. Chicaro, Ill. New York, N. Y. Cleveland, Obio North Girard, Pa. American Hardware Corp. Subsidiaries: Corbin Cabinet Lock Co., New Britain, Conn. Mow Britain, Conn. P. S. J. Corbin, New Britain,

Conn.

.

Subidiaries: (Cont 'd) Russell & Er in Mfg. Co., New Pritain, Conn. Corbin Screw Corp., Mew Britain, Conn. Branches: Chicago, Ill. New York, N. Y. Dayton, Ohio Philadelphia, Penna. Wahlstrom Tool Division American Hachine & Foundry Co. Brooklyn, N. Y. (Subsidiary of U. S. Steel Corp.) American Steel & Wire Co. Cleveland, Ohio Plants and Factories: Warehouses: Atlanta, Ga. Worcester, Mass. De Kalb, Ill. Baltimore, Md. Waukegan, Ill. Buffalo, N. Y. Cleveland, Ohio Chicago, Ill. Denver, Colo. Kansas City, No. Indiana Detroit, Mich. Farro, N. D. Trenton, N. J. Kansas City, No. Ohio Penasylvania Chicago, Ill. Louisville, Hv. Minnesota Mer York, M. Y. Atlanta, Ca. Joliet, Ill. Pittsburgh, Penna. Scott St. Works St. Louis, Mo. Rockdale Works New Haven, Conn. Works Cleveland, Ohio Cuvahoga Works Consolidated Torts American Stove Co. Branch Offices: 2001 S. Kings highway San Francisco, Calif. Atlanta, Ga. St. Louis, Mo. Chicago, Ill. Boston, Mass. . Factory Plants: Mem Yor' City Harvey, Ill. Cleveland, Ohio St. Louis, lio. Cleveland, Ohio (Oil & Gasoline Div.) Philadelphia, Penna. Loraine, Ohio

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Ames Poldwin Wyoming Co. Parkersburg, W. Va.

E. C. Atkins Co.

Atlas Fence Co. Philadelphia, Pa.

Audubon Wire Cloth Corp. Philadelphia, Fa.

Borrett-Cravens Co. Chicago. Ill.

C. J. Bates & Son Hew Haven, Conn.

E. Behringer Metal Wks. Newark, H. J.

Denjamin Electric Mfg. Co. DesFlaines, Ill.

Bolon Aluminum & Brass Corp. Detroit, Mich.

Brewer-Titchener Cory. Courtland, F. Y.

Main Plant, Parkersburg, W. Va. Horth Easton, Mass.

Main Flant: Indianapolis, Ind.

Branch Offices:
Chicago, Ill.
New York City
Atlanta, Ga.
Memphis, Tenn.
New Orleans, La.
Portland, Oregon

Seattle, Wash. Klamath Falls, Oregon

Subsidiary of Manganese Steel Forge Co., Philadelphia, Pa.

Subsidiary of Manganese Steel Forge Co., Philadelphia, Pa.

Subsidiary: Semple & Reddich Co. Hillside, N. J.

Branch Factory: Chester, Conn.

Subsidiary of Visner Hfg. Co.

Branch:
Porcelain Enameling & Starping
Div.
DesPlaines, Ill.

Plants:
Brass Forgin;
Detroit, Nich.
Capitol Brass Div., Detroit,
Mich.

Drancaes: Crandal Stone Div. Binghanton, H. Y.



Branches: (Cont'd)
Cortland Forging Div.
Cortland, H. Y.

Contland Carriage Goods Div. Contland, H. Y.

Warehouses:

Men York, N. Y.

Mouston, Texas

Fouthand, Oregon

Brench Flants: Seattle, Wash. Peoria, Ill. S. Bartonvill, Ill.

Branch Offices: Atlanta, Ga. Baltimore, Md. Boston, Mass. Charlotte, II. C. Chicago, Ill. Cincinnati, Ohio Columbus, Ohio Dallas, Temas Dayton, Ohio Indianapolis, Ind. Jacksonville, Fla. Kansas City, Mo. Louisville, Ky. Minneapolis, Hinn. Mew Orleans, La. Her Tork, H. Y. Omaha, Meb. Phila., Pa. Pittsburgh, Pa. Solt Lake City, Utali Wheeling, W. Va. Locklanu, Ohio Plymouth Meeting, Pa. East St. Louis, Ill. Salt Lake City, Utah

Sales Agent: Salmonson & Co. New York City

Broderich & Bascom Rose Co. (Main Plant) St. Louis, No.

Fhilip Carey Mg. Co. Lockhand, Cincinnati, Ohio

Branch Plant: Middletown, Ohio

Champion Lichting Co. Phila., Pa.

Chase Companies, Inc. Waterbury, Conn.

Warehous s: New York, F. Y. Boston, Mass. St. Louis, Ho. Mewark, N. J. Phila., Pa. Baltimore, Ma. Fittsburgh, Pa. Cincinnati, Ohio Cleveland, Ohio Detroit, Mich. Chicago, Ill. Milwaukee, Wis. Minneapolis, Minr. New Orleans, La. Los Angeles, Calif. San Francisco, Calif. Seattle, Wash.

Mills & Factories:
Chase Brass Copper Co., Inc.
Lighting Fixture Dept.
Waterbury, Conn.
Chase Rolling Mills, Waterbury,
Conn.
Waterbury Mfg. Co., Waterbury,
Conn.
Chase Metal Wks., Waterbury,
Conn.
Consolidated Safety Pin Co.,

Branch Plants:

Ceder Rapids, Iowa Little Falls, N. Y. Milyouhee, Wis. Baltimore, Md.

Bloomfield, N. J.

Offices:

Fittsburgh, Pa.
New York, N. Y.
St. Paul, Minn.
Boston, Mass.
Philadelphia, Pa.
Cleveland, Ohio
Cincinnati, Ohio
Detroit, Mich.

Frunch:

A. I. Reid Creamery - Dairy Sugly Co.
Philadelphia, Pa.

Cherry-Burrell Corp

Chester Dairy Suply Co. Chester, Pa.

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Chicago Railway Equipment Co. Chicago, Ill.

Chicago Screw Co. Chicago, Ill.

Chromium Corp. of America New York City

Cincinnati Sheet Metal & Roofing Co.
Cincinnati, Ohio

C-K-R Co.
Chicago, Ill

Cleveland Chain & Mfg. Co. Cleveland, Chio

Cleveland Tack Wks. Cleveland, Ohio

Cleveland Wire Spring Co. Cleveland, Ohio

Coleman Bronze Div. Chicago, Ill.

Coleman Lamp & Stove Co. Wichita, Kansas

Consolidated Expanded Metal Co. Wheeling, W. Va.

Franch Plant: Franklin, Pa.

Subsidiaries:

Western Automatic Machine Co., Elyria, Ohio Hartford Machine Screw Co., Hartford, Conn. Detroit Screw Whs., Detroit, Mich.

Branch Plants:
Milwaukee, Wisc.
Waterbury, Conn.
Cleveland, Ohio
Chicago, Ill.

(Subsidiary of Wierton Steel Co.)

Branch Plants:
Rittenhouse Plant, Akron, Ohio
Cronk-Kohler Plant, Frankfort,
N. Y.

Plants: Station D., Cleveland, Ohio Henry St., Cleveland, Ohio

(Subsidiary of Bishop & Babcock Efg. Co., Cleveland, Ohio)

Plant: Cuyanoga Hts., Ohio

(Subsidiary of Kawneer Co.)

Branch:
Sunshine Products Co.
Chicago, Ill.

Branches:
Somerville, Mass.
Buffalo, N. Y.
Chicago, Ill.
Cleveland, Chic
Detroit, Mich.
Phila., Pa.

Rranches: (Cont'd)
New York, N. Y.
Pit'sburgh, Pa.
Beach Bottom, W. Va.

Corona Corp.

Jersey City, N. J.

Sales Agency for Lightolier Co.

Creamery Package Life. Co Chicago, Ill.

Plants:
Derby, Conn.
Arlington Heights, Ill.
Lake Mills, Wis.
Ft. Atkinson, Wis.

Cyclone Fence Co.

Branches:

Cleveland, Ohio
Detroit, Mich. (Warehouse)
Mineola, M. Y.
De Kalb, Ill.
Atlanta, Ga.
Pittsburgh, Pa.
Tecumsah, Mich.
Greensburg, Ind.
N. Chicago, Ill.
Newark, N. J.
Fort Worth, Texas

Davidson Enamel Products, Inc.

Branch Plants:
Lima, Ohio
Connersville, Ind.

Diamond Expansion Bolt Co. Carwood, N. J.

Branches:

New York, N. Y. Phila., Pa. St. Louis, Mo. San Francisco, Calif. Chicaro, Ill. Detroit, Mich. Los Angeles, Calif.

S. R. Droescher, Inc. New York City

Plant: Crawford, N. J.

Du lex Incinerator Div. Cleveland, Ohio

(Subsidiary of Consolidated Iron-Steel Mfr. Co.)

Eagle Lock Co.
New York City

Plant: Eagle Lock Company, Terryville, Conn.

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Emoire Ploy Company Cleveland, Ohio

Enamelers Guild, Inc. Pittsburgh, Penna.

Evans Products Co. Detroit, Mich.

Fairbanks Company New York City

Federal Screw Works Detroit, Mich.

Florence Stove Co, Gardner, Mass.

General Bronze Corp.
Long Island City, N. Y.

General Metalware Co. (Main plant)
Minneapolis, Minn.

Associated Company of General Wheelbarrow Company of Cleveland, Ohio

Subsidiary of O. Hommel & Co.

Sales Organization for Lumber Products Corp.

District Offices:
New York, N. Y.
Boston, Mass.
Pittsburgh, Penna.

Branch Plants: St. Johnsbary, Vt. East holine, Ill.

Factories:
Binghamton, F. Y.
Rome, Ga.

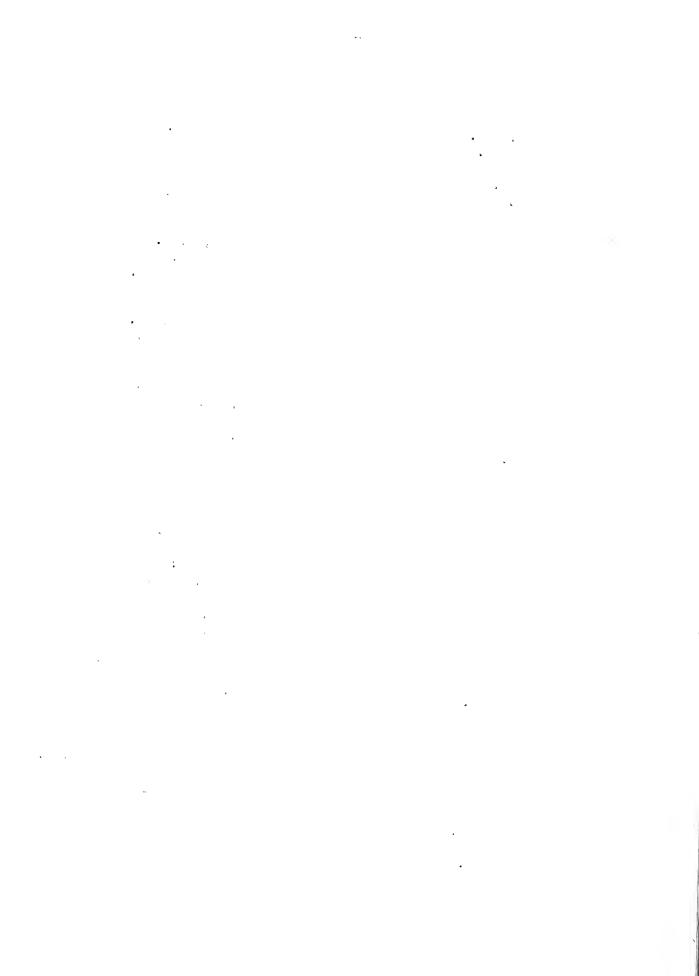
Branch:
Superior Screw & Bolt Lenufacturing Co.
Cleveland, Ohio

Branch Factory: Kankakee, Ill.

Sales Offices:
New York, N. Y.
Chicago, Ill.
Atlanta, Ga.
Detroit, Mich.
Dallas, Texas
San Francisco, Calif.

Plants:
Polachek Plant, Long Island
City, N. Y.
Roman Bronze Works
Corons, Long Island, N. Y.
Guarantee & Steel Co.,
Chicago, Ill.

Branch Plant:
Portland, Oregon



W. A. Gibbs & Son, Inc. Cnester, Pa.

Gilbert & Bennett Mfg. Co. (Main plant) Georgetown, Conn.

Wm. Hodges & Co. Philadelphia, Penna.

Howe Scale Co. Rutland, Vt.

Indestro lifg. Corp. Chicago, Illinois

Ivanhoe Division
Miller Co.
Meriden, Conn.

Jensen Creamery Lachinery Co. Oakland, Calif.

Edward Katsinger Co.

Kirsch Company, Inc. Sturgis, Michigan

A. Leschen & Sons Rope Co.

Lewis-Shepard Co. Watertown, Mass.

Lisk Manufacturing Co., Ltd. Canandaigus, N. Y.

Plant:

Oneida, New York

Branch Plant:

Wireton, Blue Island, Illinois

Plant:

Camden, New Jersey

Subsidiary:

Ohio Howe Scale Co. Cincinnati, Ohio.

Subsidiary of Duro Metal Products Co.

Branch of Bloomfield, N. J.

Branches:

Edward Katzinger Co.,
Baltimore, Md.
A. & J. Kitchen Tool Co.,
Chicago, Ill.
Geneva Forge, Inc.
Geneva, N. Y.

Branches:

New York City Boston, Mass. Oakland, Calif. St. Louis, Mo.

Branch Offices: Chicago, Ill. Denver, Colo.

New York, N. Y.

San Francisco, Calif.

Plant: St. Louis, Mo.

Pranch:

Crawfordsville, Ind.

Plant: (Branch)

Geneva Plant, Geneva, N. Y.

Newark, N. Y.

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Lowell Wrench Co. Worcester, Mass.

McKay Co.
Pittsburgh, Penna.

Milcor Steel Co.
Milwaukee, Wisconsin

Mitchell-Vance, Inc. New York, N. Y.

P. H. Murphy Co. Chicago, Ill.

Wational Enameling & Stamping Co.
Milwaukee, Wisc.

National Loc's Washer Co. Newark, N. J.

Nicetown Mfg. Co. Philadelphia, Penna.

Wicholson File Co.
Providence, R. I.

Noesting Pin Ticket Co., Inc. Mt. Vernon, N. Y.

Subsidiaries:

Safety Wrench & Appliance Co. Worcester, Mass. Warnock Mfg. Co. Worcester, Mass.

Branch Plants:
York, Penn. .
NcKees Rocks, Penna.

Branch: Canton, Ohio

Selling Agency for Shapiro & Aronson

Branch Plants:
Standard Railway Equipment Co.
Railway Metal Products Co.
Union Metal Products Co.
(All located at Chicago, Ill.)

Branches:
Laurel Hills, L. I., M. Y.
Baltimore, Md.
New Orleans, La.
Granite City, Ill., Stamping
Wks. Branch
New York City

Pranch Plant: Milwaukee, Wis.

Chicago, Ill.

Subsidiaries:
Philadelphia Lawn Mower Co.
Prul & Reelman Mfg. Co.
(some address in Phila.)

Factories:
Arcade File Works, Anderson,
Ind.

G. & H. Barnett Div.
Philadelphia, Penna.
Paterson, N. J.

Branch: Chicago, Ill.



Pennsylvania Stamming Corp. York, Penna.

Perfection Stove Co. Cleveland, Ohio

Petroleum Iron Works Co. of Texas (Office) New York City

The Pfaudler Co.

Pittsburgh Steel Co. Pittsburgh, Penna.

Fayette R. Plumb, Inc. Philadelphia, Penna.

Division:

Pennsylvania Crate Co. Red Lion, Penna.

Branches:

Cleveland, Ohio
Cleveland, Ohio
Chicago, Ill.
Kansas City, Mo.
Omaha, Neb.
Philadelphia, Penna.
Brooklyn, N. Y.
St. Paul, Minn.
Boston, Mass.
E. St. Louis, Ill.
Albany, N. Y.
Atlanta, Ga.
Dallas, Texas
Charlotte, N. C.

Branch Office of Beaumont, Texas

Oakland, Calif. Los Angeles, Calif.

Branches:

Rochester, N. Y. Elyria, Ohio
New York, N. Y. Chicago, Ill.
San Francisco, Calif.

Branches:

San Francisco, Calif.
Los Angeles, Calif.
Atlanta, Ga.
Chicago, Ill.
Evansville, Ind.
St. Louis, Mo.
New York, M. Y.
Monoseen, Penna.
Philadelphia, Penna.
Memphis, Tenn.
Dallas, Texas
Houston, Texas

Branch Plant: St. Louis, Mo.

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Promessive Service Co. St. Lowle, 10.

Prireme Hf . Co. Newar', H. J.

Rheem Hf . Co. Richmond, Calif.

Revere Co. er & Braus Co.

Republic Steel Cor. Chicago, Ill.

Robeson Rochester Comp.
Rochester, T. Y.

John A. Rocaling's Surs Co. Treaton, M. J. (Main Plant)

Ruddl, i rasoll & Ward 1410 & Put So. Rock Falls, Ill. Branch Plant: Harrisburg, P nna.

Lanch Plant: Newer's, N. J.

Prenct Plant: Southrate, Calif.

Dranches:
Rome Manufacturing Co. Div.,
Rome, 1. Y.

Dallas Division, Chicago, Ill.

Pranch Plant:
Upson Nut Division,
Cleveland, Ohio

Plant: Ferry, N. Y.

Offices:
New York, N. Y.
Chicago, Ill.
Los Angeles, Calif.
Royal Rochester, Ind.

Dranch Offices:
Chicaro, Ill.
Philadelphis, Pa.
New York, M. Y.
Birminghon, Ala.
San Francisco, Calif.
Los Anneles, Calif.
Settla, Wash.
Portland, Oregon
Atlanto, Ga.
Donver, Colo.
Boston, Mass.
Clev Land, Ohlo

Branch Plant: Port Chester, N. Y.

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Scovill Mfg. Col Waterbury, Conn.

Shapiro & Aronson New York City

Sheet Metal Specialty Pittsburgh, Penna.

Snap-On Tools, Inc. Kenosha, Wis.

Branch Offices: Boston, Mass. Providence, R. I. New York, N. Y. Phila. Penna. Atlanta, Ca. Syracuse, H. Y. Detroit, Mich. Chicago, Ill. Cincinnati, Ohio San Francisco, Calif. Los Anneles, Calif. Plants & Factories: American Pin Div., Waterbury, Conn. Morency-Van Buren Div., Sturgis, Mich. Oakwille Co. Div., Waterbury, Conn. A. Schrader's Son, Inc., Brooklyn, N. Y. Hamilton Beach Mfg. Co., Racine, Wis. Plumbers Brass Goods Div., Waterville, Conn.

Selling Agency:
Mitchell-Vance, Inc.

Branch of same company at Follansbee, W. Va.

Branches: Albang, N. Y. Brooklyn, W. Y. Buffalo, N. Y. Chicago, Ill. Nevarlt, N. J. Philadelphia, Penna. San Francisco, Calif. Cincinnati, Ohio Syracuse, N. Y. Toledo, Ohio Allston, Mass. Baltimore, Md. Richmond, Va. Atlanta, Ga. Hew York, H. Y. Scattle, Wash.



Stanley Works
New Britein, Conn.

Steel & Tubes, Inc. Cleveland, Onio

Stewart Iron Works Co. Covington, Kr.

Truscon Steel Co. (Main Plant)
Youngstown, Ohio

Union Fork Hoe Columbus, Chic

United Shoe Machinery Boston, Mass.

United States Register Co.

Battle Creek, Mich.

(Moin office & plant)

Franches:

Yew Pritain, Conn.

Wiles, Chio

Newark, N. J. (Atha Plant)

Stanley Rule & Level Co.,

Hew Britain, Conn.

Pranches:

Detrait Works, Ferndale, Lich.
Superior Works, Elyria, Obio
Brooklyn Works, Brooklyn, M. Y.
Cleveland Works, Cleveland, Ohio
Elyria Works, Elyria, Ohio
General & Sales Offices:
Cleveland, Ohio

Branch Offices:
Buffalo, N. Y.
Des Hoines, Iowa
Columbus, Ohio
Chattanooga, Tenn.
Chicago, Ill.

Branch Factories:
Pressed Steel Division,
Cheveland, Ohio
Berger Life. Co. Div.,
Canton, Chio

Franca Plants:
Continental Works
Frankfort, N. I.

Pranca Flants:
Die Plant - St. Louis, Ho.
Beverly Factory, Beverly, Hass.
Die Plant, Binghamton, N. Y.

Branches:

Minneapolis, Minn.

Albany, N. Y.

Kansas City, Mo.

Denver, Colo.

Veeder Root, Inc. Hartford, Conn.

Vitreous Steel Products Co. Nappanee, Indiana

Wackman Welded Ware Co. St. Louis, Mo.

Ware Bros. Chicago, Ill.

Washburn Co.
Worcester, Mass.

Wheeling Steel Corp. Wheeling, W. Va.

Wickwire Spencer Steel Co. New York City

Williamsport Wire Rope Co. Williamsport, Penna. (Main plant) Branch:
Bristol, Conn.

Branch of Cleveland, Ohio

Branches:

Sand Springs, Okla., Section Line (Warehouse) Houston, Texas N. Kansas City, Mo. New Orleans, La.

Trade Mame of Chicago Roller Skate Co.

Branches:

Andrews Division, Rockford, Ill.

Michigan Wire Goods Division, Niles, Michigan

Branch Flants:

- (1) La Belle Works, Wheeling, W. Va.
- (2) Ackerman Factory, Wheeling, W. Va.
- (3) Martins Ferry Factory,
 Martins Ferry, Ohio

Branch Plants:

Clinton Works - Clinton, Mass. Wickwire Works - Buffalo, N. Y. Morgan Works - Worcester, Mass. Goddard Works - Worcester, Mass. Palmer Works - Palmer, Mass.

Branch Flant:
Sparrows Point, Md.

Warehouses & Franch Offices:
Phila., Penna.
Pittsburgh, Penna.
Cleveland, Ohio
New Orleans, La.
Chattanooga, Tenn.
Tulsa, Ohla.
Houston, Texas
Chicago, Ill.



Warehouses & Branch Offices: (Cont'd)
Cincinnati, Ohio
New York, M. Y.
Blackwell, Okla.
Odessa, Texas
Tampa, Fla.
Hobbs, New Mexico

Branches:
Jersey City, N. J.
New Orleans, La.

Plant:.
Oakmont, Penna.

Branch Plants:
Stamford, Conn. Division
Phila., Penna. Division
Walker-Automatic Div.,
Cnicago, Ill.
Saegar Lock Works,
Chicago, Ill.
Morton Door Closer Co.,
Chicago, Ill.
Detroit Plant, Detroit, Mich.
Walker Vehicle Co.,
Chicago, Ill.
Barrows Lock Works,
North Chicago, Ill.

Artforge, M. M. Young Co. (same concern)

Wilson & Bennett Mfg. Co. Chicago, Ill.

Woodings Verona Tool Works Verona, Penna.

Yale & Towne Mfg. Co.

M. M. Young & Co. Chicago, Ill.

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