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STATISTICAL BACKGROUND OF THE NRA

By<br>Victor S. von Szeliski

WORK MATERIALS NO. SEVEN
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DIVLGIOIT (FPRVIEW
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STATIBITCAL BACKGROUTI IE IF ITRA
by
Victor S. vrn Szelislai

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In general, recovery in consumers' goods industries is said to be keyed to the amount of money consumer's have available to satisfy their accumulated wants. "It is hereby declared to be the policy of congress. . th increase the consumption of industrial and arricultural products by incressing purchasing power." Demand for goods . desire plus purchasing power.

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"It is hereby declared to be the policy of Congress ...to conserve natural resources". (No statistical exhibits)
,

## I. THE ORJCTIVE OF IIICPEASED PZODTJCIION, AND REETPLONIENT THROUGH IICZUSDD FODTCIOI

## A. PRODUCTIOI AID USE OR CAPACIIY

"It is hereby declared to be the policy of Congress.....to promote the fullest possible utilization of the present productive capacities of industrits. . . ."

Table 1 and Chart 1 shon the general course of depression and recovery for the United States, and other important countries, by years through 1932 and by months for 1933-35. The deptli of depression varied from country to country. Some adjusted themselves to the shocks of deflation anc succeeded in maintaining a relatively high rate of activity, while others did not. The problem of recovery presented itself to each with diferent intensity.

Economic activity in the United States in 1932 and early 1933 had sunk farther relative to pre-depression levels than that of any of these countries, and unemployment was more acute. The recovery problem presentec itself with greater insistence here than in most, if not all, other countries.

The crop in the vorld position of the United States in sixteen comrodities is shorn in table 2. This compares the ratio of U.S. output to world output in 1929 and 1934. The comparison would have been still more unfavorable in 1933. In two cases the position of the United States showed an increase, but, for most, and the most important, comodities the loss of the United States wes severe. The extreme drop was in copper, in which the United States fell from $52 \%$ of the world's output in 1929 to 19\% in 1934.

Use of Physical Resources. The physical plant of the United States was partly idle even durins the ' 20 's. The obvious fact of ide machinery standing ready to prouce goods of which millions were in need has cansed a number of studies to be made of the producing capacity of the country. The most conservative of these is "Amcrica's Capacity to Produce." published $b_{j} \boldsymbol{y}$ the Brookings Institution. The amount of this unutilized capacity is indicated in Chart. 3.

Anount of capacity being used in 29 manufacturing industries in 1925 29, and in 23 mineral industries, 1929, are shown in charts 4 and 5. This shovs Anerican industry operating at its best; at its worst, in 1932 and earl. 1933; some industries were dorm below 15\% of capacity. Hence the obvious reasonableness of Congress's objective of "maximum possible utilization of present pioductive capacity."

$$
\begin{gathered}
\text { IIDUSTEIAL PZODUCTIOI I: SIX COTTRIES } \\
\text { 1028-1935 } \\
\text { Indeacs } 1920=100
\end{gathered}
$$

|  | -. S. | Un. T . | Canada | France | Jenan | Sweden |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1928 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1929 | 107.2 | 106.0 | 108.1 | 109.4 | 1.11 .4 | 105.0 |
| 1930 | 86.5 | 97.9 | 91.7 | 110.2 | 105.6 | 101.9 |
| 1931 | 75.0 | 80.8 | 76.7 | 97.6 | 102.1 | 39.4 |
| 1932 | 57.7 | 85.4 | 62.8 | 75.6 | 109.0 | 85.7 |
|  |  |  |  |  |  |  |
| Jen. | 50.6) |  | 52.8 | 78.7 | 119.6 | 83.7 |
| Fob. | 56.8)-- | 80.6 | 51.7 | 31.1 | 115.6 | 05.6 |
| Mar. | [ 5 .1) |  | 5.1 | 0.7 | 125.7 | 8.56 |
| Anr. | 29.5) |  | 55.5 | 34.3 | 125.6 | 83.8 |
| liay | 70.5)-- | 91.5 | 61.7 | 25. 8 | 125.5 | E. 7 |
| Junc | 0-.9) |  | 67.7 | 87.4 | 112.6 | 01.7 |
| July | 90.1) | - | ro. 1 | O5.2 | 127.9 | 83.7 |
| $\mathrm{Au}_{\varepsilon}$. | 8:0)-- | 91.5 | 76.0 | 67. 2 | 153. 5 | 07.5 |
| Sont. | 75.7) |  | 76.6 | 86.6 | 120.1 | 06.5 |
| Oct. | 65.5) |  | 72.? | 85.0 | 135.2 | 89.4 |
| ITov. | 6^.9)-- | 99.1 | 71.2 | 34.3 | 136.6 | 25.1 |
| Dcc. | 67.6) |  | 72.2 | 03.5 | 134.4 | 97.1 |
| 1934 . |  |  |  |  |  |  |
| Jan. | 70.3) |  | 71.7 | 83.5 | 132.1 | 0.0 |
| Fcb. | 73.0)-- | 104.8 | 71.3 | 22.7 | 129.4 | 100.0 |
| Max. | 75.7) |  | 78.1 | 1.9 | 140.1 | 100.9 |
| Apr. | 76.6) |  | 77.6 | 21.1 | 140.3 | 105.3 |
| llay | 7r.5)-- | 104.6 | 84.8 | 79.5 | 140.6 | 103.8 |
| June | 75.5) |  | 80.8 | 78.0 | 142.6 | 107.8 |
| July | 60.5) |  | 81.2 | 7\%.2 | 142. 6 | 10?.9 |
| Aus. | 65.8)-- | 100.5 | 84.7 | 76.2 | I. 5.5 | 107.7 |
| Scot. | 65.0) |  | 82.3 | r 21.8 | 138.7 | 107.7 |
| Oct. | 65.8) |  | 81.1 | 7.0 | 152.6 | 105.7 |
| Iov. | 66.7)-- | 110.0 | 82.9 | r1.0 | 155. ${ }^{\text {c }}$ | 109.6 |
| DCC. | 76.6) |  | 77.2 | 75.3 | 108.9 | 109.6 |
| 1935 ( |  |  |  |  |  |  |
| Jan. | 82.0) |  | 03.0 | 7. 2 | 14.6.6 | 211.5 |
| Fob. | 80.2) -. | 111.1 | 85.8 | 75.3 | 3.45 .8 | 112.5 |
| Mar. | 79.3) |  | 79.2 | re.2 | 159.1 | 115.4 |
| Apr. | 77.5) |  | 89.3 | $1 \% .2$ | 159.3 | 113.5 |
| lay | 76.6)-- | 209.9 | 83.6 | 7.7 | 159. | 11. ${ }^{\text {a }}$ |
| Junc | $77.0)$ |  | S2.6 | 7.4 | 152.9 |  |
| July | 74. |  | 88.3 |  | 157.8 |  |
| Aug. | 77. |  | 95.6 |  |  |  |
| Sont. | 79. |  | 87.0 |  |  |  |

Source: Leaiuc of I: tions, MIonthly 3 ulintin or Stetistics"


## TABLE 2

U. S. PRODUCTION DATA FROM

NATIONAL BUREAU OF ECOMOMIC RESEARCH
Bulletin 58, Nov. 15, 1935
the share of the unifed states in world ourput of Selectel) Commontties, 1929 and 1934

| Commodity | ratio of domestic to world output (in percentages) |  | 1934 ratio as a percentage of 1929 ratio |
| :---: | :---: | :---: | :---: |
|  | 1929 | 1934 |  |
| Copper | 52.3 | 18.8 | 36 |
| Oats | 23.7 | 13.2 | 56 |
| Wheat ${ }^{2}$ | 19.1 | 10.9 | 57 |
| Cement | 39.0 | 23.6 | 61 |
| Silver | 23.0 | 14.5 | 63 |
| Steel | 47.5 | 32.2 | 68 |
| Maize (corn) | 56.3 | 38.1 | 68 |
| Cotton | 55.9 | 41.0 | 73 |
| Coal | 41.4 | 34.2 | 83 |
| Artificial silk ${ }^{1}$ | 27.8 | 23.1 | 83 |
| Motor cars | 84.8 | 74.2 | 88 |
| Tobacco | 30.2 | 26.7 | 88 |
| Petroleum ${ }^{\text {P }}$ | 67.1 | 59.6 | 89 |
| Woodpulp | 25.8 | 23.0 | 89 |
| Gold ${ }^{1}$ | 11.0 | 11.8 | 107 |
| Sugar beets ${ }^{1}$ | 10.8 | 12.0 | 111 |

PHYSICAL VOLUME OF PRODUCTION AND POPULATION, UNITED STATES, 1927-1934
$(1927=100)$

| YEAR FARM | products | minerals | manufactures | Construction | total production | Poput ation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1927 | 100 | 100 | 10 u | 10 u | 100 | 101.' |
| 1928 | 105 | 100 | 108 | 105 | 106 | 101.2 |
| 1929 | 102 | 109 | 116 | 99 | 110 | 102.2 |
| 1930 | 102 | 97 | 98 | 90 | 98 | 103.1 |
| 1931 | 108 | 82 | 83 | 75 | 87 | 103.9 |
| 1932 | 101. | 68 | 66 | 50 | 71 | 104.5 |
| 1933 | 98 | 73 | 75 | 38 | 75 | 105.2 |
| 1934 | 92 | 78 | 80 | 44 | 78 | 105.9 |
| 1935 (8 mos.) | (95) | (81) | (90) | (45) | (85) | (106.6) |
| percentages of 1929 | - |  |  |  |  |  |
| 1929-32 | $-1$ | -38 | -43 | -49 | -35 | $+2.3$ |
| 1932-33 | -3 | + 5 | + 8 | -12 | + + | +0.7 |
| 1933-34 | -6 | $+5$ | + + | $+6$ | +3 | +0.7 |
| 1934-35 (est.) | $+3$ | $+3$ | $+9$ | $+1$ | + 6 | +0.7 |

## CHANGES IN THE PHYSIC.AL VOLUME OF MANUFACTURING PRODUCTION, 1927-1935 ANALYZED ACCORDING TO THREE CLASSIFICATIONS OF COMMODITIES

|  |  |  |  |  |  |  |  |  |  | CHAN | AS P | T | 1929 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | -1927 | 1928 | 1929 | 1030 | 1931 | 193? | 1933 | 1934 | $\begin{gathered} 1935 \\ (8 \text { mos. }) \end{gathered}$ | $\begin{aligned} & 1929- \\ & 1932 \end{aligned}$ | $\begin{aligned} & 1932- \\ & 1933 \end{aligned}$ | $\begin{aligned} & 1933- \\ & 1937 \end{aligned}$ | $\begin{aligned} & 1934- \\ & 1935 \end{aligned}$ |
| All manufacture | 100 | 108 | 116 | 98 | 83 | 66 | 75 | 80 | 90 | -43 | + 8 | + 4 | +9 |
| A. Durable goods | 100 | 114 | 122 | 95 | 67 | 4 | 52 | 61 | 77 | $-64$ | $+7$ | + 7 | $+13$ |
| Semi-durable goods | 100 | 102 | 107 | 90 | 90 | 80 | 92 | 91 | 101 | $-25$ | $+11$ | $-1$ | +9 |
| Non-durable goods | 100 | 105 | 112 | 108 | 101 | 90 | 93 | 96 | 94 | --20 | + 3 | $+3$ | $-2$ |
| B. Consumption goods | 100 | 107 | 115 | 101 | 93 | Su | 28 | 90 |  | -31 | $+7$ | $+2$ |  |
| Capital equipment | 100 | 115 | 126 | 90 | 66 | 45 | 52 | 65 |  | $-64$ | $+6$ | $+10$ |  |
| Construction materials | 100 | $14 t$ | 106 | 83 | 59 | 35 | $+2$ | 46 |  | -67 | $+7$ | $+4$ |  |
| C. Consumption goods |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Durable | 100 | 122 | 132 | 105 | 80 | 56 | 66 | 77 |  | $-58$ | $+8$ | $+8$ |  |
| Other | 100 | 103 | 109 | 100 | 96 | 87 | 94 | 94 |  | $-20$ | $+6$ | 0 |  |
| Capital equipment and construction materials | 100 | 110 | 117 | 90 | 63 | 40 | 47 | 56 |  | $-66$ | + 0 | $+8$ |  |

index numbers
$(1928 \cdot 100)$
160
syzawnin
 1928-1935
CHART 2
INDUSTRIAL PRODUCTION, AGRICULTURAL MARKETINGS.AND RAILWAY TRAFFIC
INDEX NHMBERS
(1923-1925-100)

PASSENGER MILES AND TON-MILES COMBINED
2-DUREN OF ROREIGN AND DOMESTIC COMMERCE INDEX, ADUUSTED
3-INTERSTATE COMMERCE COMMISSHON, CLASS I STEAM RAILWAYS, for monthly data, see appencix, table i-a, b, and c

CHART 3


UTILIZATION OF MINERAL CAPACITY. 1929


Most of the mineral industries operated within a range of from 77 to 87 per cent of practical capacity in $19 \times 9$. The percentage of utilization in various representative divisions is shown in Figure 6. The weaghted average was about 89. The divisions which fell furthers below the average were mostly small in size, whereas two large divi. sions yase to about 05 per rent

1. Copper iefteries, elec 12. Anthache Dollieries
erolytic

- Byproduct coke plants

3. Iron blast furnacen
4. Coppri mines
5. Petroleum refinenes
6. Lead m.nes
7. Bitunancus coal mises

8 Cement industry
9 Lead refineries
10. Crude onl production
(east of Califnrnia)

1) Dynamite mulls
13. Clay manes

14 Iteadsmeliers, Missouri
1.5. Carbon: black plants
16. Zons mines
17. Euel briquet planes
18. Z.ric, elctroiytic plas.is
19. Zanc smeleers
8. G) ifur caleining
plante
21. Naqural gasolineplants
es Brehive coke plants
\& Rlarb nowder mills

REPRODUCED FROM "THE TROUBLE WITH CAPITALISM IS THE CAPITALISTS", FORTUNE, NOVEMBER, 1935, BY PERMISSION OF DR. HAROLD G. MOULTON.


Among manufacturing industries is in the minerals, there was wide variation in the ratio of attual production to practically attainable capacit'y averagintg roughiy around 80 per cent. In this chats some industrits supplying a product with a gtrwing demand, such as full-fashoned hosiery, art shown to have operated in 1929 well above that level, but others could have more than doubled their output if they had been able to sell the enlarged product. Thus, the locomotive industry was operating at a bare 40 per cent. Such important industries as automobiles, cotton manuGctures, and shoes were around 80 per cent althougls if the consurnptive needs of the people : uld have been translated into purchasing power $\because$ market demand would have exceeded capacdiv In surveying manufacturing capacity, as in :hect divisions of production, full allowance was tade for practical factors of operation.

| 5 Full tashioned hosiery |  |
| :---: | :---: |
| 8 | Ihairy products |
| S - emi |  |
| + Paper |  |
| 5. Froming anci publisb. ing |  |
| 6. Meat packing |  |
| - sill and rayon manu i: © |  |
| b. auronumile tire |  |
| Fig Ton |  |
|  | $\cdots 1.14 \mathrm{~g}^{\text {cass }}$ |
| ¢ubom bile |  |
| 2 | $5 \cdot 1+$ and vegerabi. |
|  | connileg |
|  | Cuthon manutacture |
|  | 7ant and shoe |



## REPRODUCED FROM "THE TROUBLE WITH CRPITPLISM IS THE CAPITALISTS", FORTUNE, NOVEMBE 1935 , GY PERPASSION OF DR HAROLD G. MOULTON.

The outhut of conwur ${ }^{\prime}$ ons is, in the last analysis, what the population lives on, and wit dutemines a country's standara of living. General procuction indewes, houvily vesthtw as they are with construction materials and semi-finiched matericls ciestined for capital goods, will not measure what is made for direct consumption.

Chart 6 - presents a monthly inder of consumer's goods production adjusted for population growth (as the population has increased about $12 \%$ since the 1923-25 veriod used as base, 100 today no longer means what it meant in 1925-25. The "normal" is no longer 100, but about 112).

The per capita supnly receded below $75 \%$ (of 1923-25 = 100) in 1932 and eerly in 1933. This was including passenger automobiles. The supuly of goods other than automobiles receded below 80,

This contraction occurred in spite of a capacity more than ample to continue turning out consumers' goods at the 1929 rate.

The money spont for consumers' goods originates (mostly) in payrolls, saleries, and farm and other entrepreneurial incone, and to a lesser extent in dividends and interest received by individuals.

Another, and more comprehensive incex, on an annual basis, is that the National Bureau of Economic Research, reproduced heremith.

OUTPUT OF CO:TSUIPTION GOODS, 1929-1934
Manufactured Consumption Coods
Automotive Ooner Total Consumption Goods Total

| 1929 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1930 | 98 | 87 | 71 | 90 | 88 | 105 | 91 |
| 1931 | 92 | 89 | 59 | 74 | 81 | 107 | 86 |
| 1932 | 82 | 81 | 45 | 68 | 69 | 103 | 75 |
| 1933 | 84 | 93 | 52 | 66 | 76 | 102 | 81 |
| 1934 | 86 | 88 | 62 | 70 | 78 | 104 | 85 |

Change as a
percentage of 1929

| $1929-32$ | -13 | -19 | -55 | -42 | -31 | +3 | -25 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $1932-33$ | +2 | +12 | +7 | +8 | +7 | -1 | +6 |
| $1933-34$ | +2 | -5 | +10 | +4 | +2 | +2 | +2 |

Source: Eulletin 58, November 15, 1935. National Bureau of Economic Research.
$I_{\text {The }}$ classification of non-manufactured consumption goods includes all or a part of the followine: fruits, vegetables and truck crops; milk; poultry products; fresh fish; anthracite coal; natural gas; electricity.

This is divided into eromps. Clothing outnut fell from 100 in 1829 to 81 in 1932. Foods fell almost as much. Hon-manufactured goods (mostly farm produce, and including anthracite coal and electricity) increased from 100 to 103. This reflects the partial switch from processed to plain foods because of decreased income. Automokile products, being durable, and their purchase being postponable, fell off most.

There is another important consumers' good that misht be included with as much justification as passencer automobile production, namely residential buildinल. This practically ceased at the bottom of the depression. Of course, in the case of consumers' durable goods such as automobiles and residences, what the consumer consumes is transjortation and shelter from the accumulated stock of such goods. The country's stocl: of notor vehicles declined from about $33,600,000$ as the end of 1929 to $22,177,000$ at the end of 1982, or $6 \%$, Winile the putput of automobile products mas dorm $45 \%$.

## Consumer Inventory of iotor Vehicles

|  | Motor Ve- <br> hicles in use <br> end of rear | Ponulation | liotor Ve- <br> hicles per <br> 1000 nersons |
| :--- | :--- | :--- | :--- |
| 1928 | $22,122,000$ | $120,690,000$ | 184 |
| 1929 | $23,601,000$ | $122,358,000$ | 193 |
| 1930 | $23,771,000$ | $123,630,000$ | 192 |
| 1931 | $23,078,000$ | $124,446,000$ | 185 |
| 1932 | $22,177,000$ | $124,256,000$ | 177 |
| 1933 | $20,710,000$ | $126,088,000$ | 164 |

Calculated from registration figures published by the U.S. Bureau of Public Roads. Notor vehicles in use end of 1928 equals ill vehicles registered during 1929. less new vehicles sold and registered duxing l929, plus government vehicles not resistered. NACC "Facts and Figures".

While the supply of essential consumers' goods per head was not seriouslg̈ contracted, the distribution becane worse as the depression deepened. Lian may have consumed as much or more of the escentials of those still employed in 1932 as in 1925, but the unemployed could fill onl-r a portion of theil usual mants.

Production of conital goncis ase construction meteriels fell in 1932 to $40 ;$; í its 1927 lovel and $35 ;$, of its 1290 level, accordine to the ITational Burosu of Economic Poscirch. Forc was whero the denression was focussed. Those inkustries, by and large, arist only to build and install cenacita for producino consunors' eoods. ifeanthile, cxisting copacitu to nroduco consumers' goods wae armle to coutinuc sumblying then at the 1929 rate.

When demand for consumers' gods cheinks even moderetoly, cven mainteance moris can bo zostmoned, and ootw now da acity mill be roquircd onl.. i" excentional industrios. Tindor theso conditions couital goods comend mas go almost to ero. An extmone carnhlo is milroad locomotives. Only two wore ordered in 1933 comercd to $1,04 \leq$ in 1929 and 2,04 in 1922 .

Toble 3 includes moduction records for a fumber of canital goods industrics. The volume contraction in 1932 wes double or triple the contraction i:l consumers' goods.

The situation of those inductrics is gonorall: so dosperetc at denression Iows, as to entitlc them to semerato consideration. Honce, the Drable G:ous Problem: How can the violent swinis in production be moothed out? Fov can trose industrios be quich-1y reectivatod in a derossion?

The Iunds for nurclasin= conits goods and construction materials for mantenance ard aditicaal cenceity cumomanly fom
(1) Current mofite of coimontions not disbursed as Cividends
(2) Cash balances of corporations (Cvor and abovo worling casital requirements)
(3) Sevings of inaividuals investod in rew corporate
 savin_s benks, and the investnent mariret.

Data on cornoration mrofits aro siven in Table 4. The cash position of lerse corporations in 1082 (Table 2 B and 33) was substantially as gcod si in 1923 ani 1929. ITot $f$ few companios have recently berm oble to expond out of accumuletod cask rescrvos and curront profits, without reccurse to the cenitel marlets. Public flotation of new coitc? issues (inclucing refunäing) heve shown little recovery so for (swine of 1936).
.

$\frac{\text { RPODUCNI OE ONA CO.ODITIES }}{1929-193 ?}$


COISUERS' INATSFABIE GOODS
Wheat flour ( $0: \mathrm{c}^{\prime} \mathrm{O}$ of $\mathrm{bbls}$. )
Sugor meltinës, $\delta$ gorts, lonés tons
Butter (nare: consumetion)
thousa: d younds
Cheose (armient consumbtion)
thouseinc nounds
Evanoratod nili: (thousand lbs.)
Boof and Veal, insocted (thonsencs
of younds)
Porl, inspectod slaugher (thousands
Lard (thouserus of rouncis)
Lemb and intuton (thousends of lbs.)
Gamed Solmon, shipmonts (ceses)
Candy, selos bur mfes. (\$000)
Cigarottos, vitherewals ( $000^{\prime} \mathrm{s}$ )
Anthracite conl (thousand shorttons)
Gesoline, at Eefineries (theusend bexrels)
Gasolinc, at watural bes Mants
Electricity, million ? wh.
Dowsurint (consuned by yublishers)
shicet tons
COISUTERS! SE I-DUBIZ GOODS

| Gloves and 泣tbens (dozen rix) | 18.7 | 261,396 | 162,203 | - 33 |
| :---: | :---: | :---: | :---: | :---: |
| Shoos (thonsenis of veirs) | 187 | 30.117 | 25, $10{ }^{7}$ | 15 |
| Pneumeitic cesings (thousends) | 251 | 4,501 | , ,67\% | 53 |
| Inner tubos (theusends) | 25.1 | 4,509 | 2,459 | $\triangle 17$ |
| Rubjer a.ec Cravas fort ear (twousend - ofir) | 25.3 | 7,410 | 5,93n | -6 |
| $\begin{gathered} \text { Cotion toxtilos (roci-lu avornego) } \\ \text { thensend yras } \end{gathered}$ | 65 | 67, 217 | 52,907 | 2 |
| Rubber hocls (twosenc -etr) | 35 | 19,342 | 12,957 | 32 |
| Sill: Dolivorios (balos) | 267 | [1,646 | $\triangle 6,152$ | - 10 |
| Wool Consumttica (thousend los.) | $\bigcirc 69$ | 40,797 | 3 , 127 | 34 |

COISUUIRRS' DURIII GOODS
Passonoor duacmobiles
Vecuum Clecinors (shiomonts)
Residentiol Juilcing:
Projects, rundor of
Floor sece, thou. sq. feet
Veluetion (\$000)

| Prise | 1939 | 1938 |
| :---: | :---: | :---: |
| 159 | 9,609 | 8,395 |
| 169 | 390,059 | 308,713 |
| 147 | 129,835 | 140, 517 |
| 147 | 38,355 | 45,053 |
| $1 \leq 9$ | 150, 511 | 150,442 |
| 161 | 393,965 | E66,171 |
| 163 | 702,527 | 652,545 |
| 163 | 146,9.9 | 131,122 |
| 165 | 45, 458 | 56,793 |
| 169 | 456,825 | 481,238 |
| 169 | 20,868 | 17,530 |
| 171 | 9,919,904 | Q,652,157 |
| 17.3 | 6,158 | 1,155 |
| 179 | 36, 257 | F-7, 219 |
| 179 | 2,856 | 5,023 |
| 140 | 017 | 989 |
| 243 | 190, 204 | 141,326 |

243 190,244 141,326

Per cent
$\qquad$
$-13$
$-22$
$+3$
10
+1

$-7$
$-11$
+20
$+\quad 5$
$-41$
$-15$

- 9
$-10$.
$\begin{array}{r}\square \\ -\quad 3 \\ \hline\end{array}$
$-26$

|  | $\left[E^{-14}\right.$ | Contid. |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | IE, | 1929 | 1932 | chang? |
| CAPITAL GOODS |  |  |  |  |
| Stecl barrcls, nuriber | 315 | 1,303,897 | 765,89? | $-42$ |
| Steoi boilers, zow orders, thusend squere feet | 215 | 1,500 | 304 | - 80 |
| Foundry cquimont, shiments inder numb: | 213 | 189.8 | 21.1 | - 89 |
| Hachinc tools, shioments, inder no. | 221 | 285 | 38 | - 87 |
| Woodworking w.e'inory, shipments (thousand dollers) | 223 | 1,595 | 184 | - 88 |
| Power swiocling couipment (dollars) | 231 | 169,728 | 20,760 | - 88 |

## PRODUCERS' RAI

Chieflic Por Producers' Goods

Explosives (wav Orders)
Sulghr cuart of. (lun tons)
Sulonuric acid (shỏt tons)
Elcctric nower, molcese (million lath.)
Biturninous ccol (thousend short tons) 17
Lumber, S. R. B.indox
Iron ula, conoumition (thousend long tons)
Pie Iron, (rlousend lone tons)
Stcol In ots (thousaind lons tons)
Stcol Sicots (short tons)
Fabricotcol structural stecl
Track wor:
Copyer, refinci, domestic shi?monts (short tons)
Lead, moduction (short tons)
Zinc (short tons)
Chiefly Inn Concumers' Goods
Chomical wood pulp
300j- wor (short tons)
lilochenical vood pulp
Boz board
Writin; $\cdots$ or (short tons)
UITCLASSIPIED
Elcotrical 600 ds , quertcrly, ncw orders (\$000)

40,383
589,409
].88,565
3,694
44,582
91
5,304
3,52.4
4,526 323,948
299,819
13,510
93,284
27,997

- 70
$\begin{array}{lll}59,737 & 23,831 & -60\end{array}$
52,633 17,794

26,027 20,543
124,826 78,820
136,471 100,254
179,337

- 66

| 235 | 26,027 | 20,543 | -23 |
| ---: | ---: | ---: | ---: |
| 239 | 124,826 | 78,820 | -37 |
| 237 | 136,471 | 100,254 | -37 |
| 241 | 350,278 | 179,337 | -38 |
| 243 | 50,633 | 38,350 | -24 |

- 84
- 80
- 76
-71
- 74
$-83$
227
227
223

50,633
38,350
$-42$
$-72$

- 53

18,959

- 63

218,987

- 58
$-30$
.
- 

231
266,376
70,66C
$-73$

## REAIL N2DE

Five-anci-le: Cirial, indor mmor
(Vorict- C'ひi:.)

Throc rostrumet orins (\$0u)
W. I. Grent (rico)

Donartinges sta es los, index
iaril order s les (\$0,0)

| 210 | 127.1 | 130.8 | - 24 |
| :---: | :---: | :---: | :---: |
| 67 | 35,560 | 72, 820 | 13 |
| 4 | $55^{\circ}, 180$ | $\leq 42,420$ | $\pm 11$ |
| 47 | L, 968 | 3,667 | - 8.6 |
| 49 | 5, 053 | 6,109 | 111 |
| 40 | 111 | 69 | - 60 |
| 51 | 61, 28 | 30,344 | 57 |
| $\therefore 9$ | [ 17,474 | 12,939 | 36 |

 , "sc Reol.
 lio orsis of its rodovircin usc. Thus, somo bitunincus coal is used




 conc. "hus, sinco cotton dresses domentic'"liners" ore cousuncrs' Gojes, coter tortilos lu si clrssifiod.

```
CATEE4
SGID SCTICDS CI MROEASIIGG
    PONEP. ECR CHITTAI GOODS
A"D COOSIRTCRIO- !ATERIALS
```

| Corporetion | Cosh end |  | Admitted | Increase |
| :---: | :---: | :---: | :---: | :---: |
| Profits | Equivolent | OW | Assets of | in |
| 657 Incus- | 418 İcus- | Casital | Life Insur- | Adrittod |
| trial Cos. | $\begin{gathered} \text { trial Cos. } \\ \underline{b} / \end{gathered}$ | Issues c/ | ance Cos. <br> a) | Assets |


| 1926 | 1019 |  | 375 | 10, 4.32 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1927 | 187 | 3078 | $\triangle 657$ | 11,507 | 1165 |
| 1928 | 5807 | 3751 | $5: \leq 6$ | 12,309 | 129? |
| 1929 | $\bigcirc 95$ | 3618 | 8002 | 14,094 | 1205 |
| 1980 | 1190 | 3608 | 4183 | 15,253 | 1159 |
| 1931 | 716 | 35\% | 1551 | 16,324 | 1071 |
| 1982 | 25 | 3326 | 322 | 16,917 | 593 |
| 1933 | 568 | 3160 | 160 | 17,217 | 300 |
| 1934 | 844 |  | 175 | 18,040 | 833 |
| 1935, Scyt. |  |  |  | 18,887 | 847 |

a/ Stradrec Traur and Sccuritios Scrvico, If 17, 195. T. 346
b/ Steadord axmins Bullotia, eul.̈ 15, 19E:
c/ Compilci by Divisica of Review, Stetistics Scction, fron Survey of Curan" Jusioess.
d/ Assots f lime life incurance comanios. Sories revisca i: 1999; 1908-29 comerision ant nxact.


#### Abstract

"It is hereby declered to be the policy of Congress . . . . to reduce and rilieve unemployment".


Unemployment is the evil of the denression which calls most urgently for solution. It outweighs all other features of the situation.

Unemployment is the human side of the unused physical capacity figure, unused human resource, idle hands and idle brains. It is a loss to the nation as well as to the individual unemployed. The man-hours that have gone to waste during the depression could have duplicated the entire railroad system not once, but twice or more.

Table 5 show unemoloyment in the United States ard foreign countries. The foreign countries! data are for manufacturing and other mechanical industries. Their representativeness ranges from very good far the United Kingdom down to poor for Poland and Japan. Unemployment in the United States for the twelve months ending April, 193:, was about $35 \%$ among all non-agricultural workers, and slmost $50 \%$ among emoloyees in manufacturing, transnortation and construction. Unemploynent figures in no other country were as high as this.

Chart 7 shows the magnitude of tine problem. At the botton of the depression there were about 50 milliun employables, (not including vives and other individuals not nordally working for waces or salaries, but forced into the labor narket for the time being), of which roughly 35 milion either emploved by others or self-employed, and 15 million out of work. The number employed rose racidly in 1933, then levelled off and even dipped once or trice. It has since been advancing again, but there still remains a large number to reacsorb.

Chart 8 shows indexes of employment in manufacturing, agriculture and railroads. The agricultural employment includes hired labor only. Relatiye to pre-depressinn levels railrofds have siven least employment during' the depression, arriculture most, and factories on intermediate amount. Factory employment has nom recuvered aoout nalf way, and now gives at least as good a showing as agriculture, and possibly better. Agricuitural labor (as reported) and railroad employment have not recovered very much as yet, both still being near the levels of 1932-33.

Where is the unemployment? Some industries may actuallv have employed more in 1932 than in 1929; gold mining and electrical refrigerators, for instance. At the other extreme there were probably some which omployed less then one-tenth of their 1929 labor force. Most of the unempoyment was and is in the capital goods ano allied industries.

Table 7 shows omployment ano man-hoirs in a number of manufacturing industries, and residential building. The six highest ranking are nondurable goods industries; the six lowest rankıng, durable gouds industries.

Reyon and residential building represent the two extremes, the one, even in Jenuary - April. 1933, employing almost as many as in 1929, the

## Per Cent of Workers Unemoloyed

| United States |  |  | 1932-33* |
| :---: | :---: | :---: | :---: |
| All rorkers | 3.7 | 25.8 | 27.6 |
| Non-agricultural workers | 4.8 | 32.2 | 34.6 |
| Maruiscturing, ) |  |  |  |
| Railroads, Construction) | 5.7 | 42.7 | 45.3 |
| Germany |  | 30.2 | 29.9 |
| Australia | 11.1 | 29.0 | 28.6 |
| Austria |  | 24.8 |  |
| Belgium | 1.3 | 19.0 | 19.2 |
| Canada | 5.7 | 22.0 | 23.1 |
| Denmerk | 15.5 | 31.7 | 33.1 |
| Japan |  | 6.9 | 6.6a/ |
| Norvay | 15.4 | 30.8 | 33. 2 |
| Netherlands | 7.5 | 29.9 | 31.2 |
| Folend | 4.9 | 11.9 | 10.8a/ |
| United Kingdom | 8.2 | 17.6 | 17.8 |
| Srecen | 10.7 | 22.8 | 24.2 |
| Stritzerland | 1.7 | 9.1 | 10.5 |
| Czechoslovakia | 2.2 | 13.5 | 15.3 |
| *May, 1932 to April, 1933, inclusive. <br> Sources: A.F. $\cap$ I Estimate, revised (discuntinued in 1934), League of Nations Monthly Bulletin of Statistics |  |  |  |
| a) Coverrege said to be pour <br> Unemploynent figures for foreign countries cover manufacturing and other non-agricultural industries. |  |  |  |

- 

|  | $\begin{aligned} & \operatorname{Jan} .1 \\ & 1920 \end{aligned}$ | $\begin{aligned} & \text { April } 1 \\ & 1930 \\ & \hline \end{aligned}$ | Chare | Par cont |
| :---: | :---: | :---: | :---: | :---: |
| POPGLATIO | 105.711 | 122,775 | 17.064 | 16.1 |
| CRAND TOPM GAININIJT OCCUP ISN | 41,614 | 48.830 | 7.216 | 17.3 |
| ACRICULTURS, TISEIEG, FORTSTEI | 10.936 | 10.722 | -214 | -2.0 |
| EXTRAOTION OP MIMERAS | 1,090 | 984 | -106 | -9.7 |
| Coal | 734 | 622 | -212 | -15.3 |
| 011 a Gan | 86 | 105 | 19 | 22.1 |
| 0thers | 270 | 257 | -13 | -4.8 |
| MAFUFACTURING ADD MECHASICAS ITOSTRIES | 12.832 | -14,110 | 1.278 | 10.0 |
| (Including bullaing and hand trades) |  | . |  |  |
| (Frabor 蛆 woric in factories, estimated from BLS Index and Cemsus of Manufactures) | $(9,610)$ | $(8,090)$ | $(-1.520)$ | (-15.8) |
| TRANSPORTAPION \& CONUNICANION | 3,097 | 3,843 | (146 | 24.2 |
| Motor Vobicle Drivera | 285 | 972 | 687 | 241.1 |
| Laborers, road and street transportation | 116 | 290 | 174 | 150.0 |
| Stean railroeds, neleoted occupations | 1.218 | 1.120 | -35 | -7.4 |
| (Number at work in eteam railroade, eccording to Interstate Commerce Comission) | $(1.960)$ | (1.635) | $(-325)$ | (-16.6) |
| Felephone Operatore | 190 | 249 | 59 | 31.1 |
| 0 thers | 1,061 | 7.946 | 885 | 83.4 |
| TRADE | 4.258 | 6,081 | 1,823 | 43.0 |
| Bankers, brokere, ingarance agente, to. | 297 | 506 | 211 | 71.0 |
| Beal estate agents | 149 | 240 | 91 | 62.1 |
| Potail dealers | 1.328 | 1.704 | 376 | 23.3 |
| Selesson of meleswomon | 1.192 | 2,069 | 877 | 73.6 |
| "Clerics" in etores | 414 | 402 | $-12$ | -2.9 |
| Leborers and lospers in tores | 125 | 209 | 84 | 67.2 |
| 0 ther | 753 | 349 | 1.96 | 2s. 0 |
| PUBLIC SERVICE | 738 | 856 | 218 | 16.0 |
| PROIESSIONAL | 2.171 | 3,244 | 1.003 | 49.9 |
| Laryers and fudges | 123 | 162 | 38 | 30.9 |
| Musiclans | 130 | 165 | 35 | 25.9 |
| Teachere | 752 | 1,044 | 292 | 35.8 |
| Technionl ongineers | 156 | 226 | 90 | 65.2 |
| Trained Iureen | 149 | 294 | 145 | 97.3 |
| Others | 881 | 1,304 | 483 | 54.8 |
| DOMRSTIC AD PRRSOTAT ERRYICE | 3.380 | 4,952 | 1.572 | 45.7 |
| Berbers, beamty shops, etc. | - 216 | 374 | 58 | $+26.9$ |
| Lemudiry operativee | - 121 | 241 | 120 | 99.2 |
| Cooks and ether servante | 1.271 | 1.999 | 728 | 57.3 |
| Others | 1,674 | 2.338 | 664 | 39.5 |
| CLWRICAL OCCUPATIOH8 | 3.112 | 4.025 | 914 | 29.4 |
| Boolveepsre, ceshlers, acoountenta | 735 | 931 | 196 | 26.7 |
| Clerics | 1.488 | 1.997 | 509 | 34.2 |
| Stenographers g typiats | 615 | 811 | 196 | 31.9 |
| Otioers | 273 | 286 | 13 | 4.8 |

HOII: Gainfully oocupled, according to Consan neage, does not mean at morko but dnoludes, "all persons 10 jesirs and ofor who urualiy follov a geinful oocupation, aven though they way not have buen employed whoa the ocame mai taken."

Of the $48,830,000$ gainfally occupied as of 4 pril, 1930, agproxinately 4,386,000 were unexployed.

Pigures in ( ; not incladed in total.


## TADIE ?

Indozes of Empoymont in Mojor Incustries in Janmar-Aril, 1933*
Comrared to $1929=100$

| As iliensured. iby Irumbers moloyod |  | As has sured By lienFours of Emrloyment |  |
| :---: | :---: | :---: | :---: |
| Incea, | Ioss | Inde: | Loss |
| $1920=100$ | from 1929 | $1933=100$ | From 1929 |


| Rejon | 98.6 | 1.4 | 91 | 9 |
| :---: | :---: | :---: | :---: | :---: |
| 3oots and Shoos | 84.0 | 16.0 | 74 | 26 |
| iverts | 79.5 | 20.5 | 70 | 30 |
| Cotton Goods | 74.2 | 25.8 | 68 | 32 |
| Knit Goods | 81.7 | 13.3 | 68 | U2 |
| Wollun and Worsted. | 75.5 | 23.7 | 68 | 32 |
| Leather | 75.4 | 24.6 | 67 | 33 |
| Petroleum Rofining | 76.1 | 27.9 | 62 | 38 |
| Poper and Fulo | 75.0 | 23.0 | 57 | 43 |
| Fertilizer | 61.8 | 33.2 | 57 | 43 |
| Chemicals and Drags | 66.8 | 33.8 | 53 | 47 |
| Railroscis | 57.8 | 4.2 | 52 | 48 |
| Biturinous Conl | 67.6 | 3.3 .4 | 41 | 59 |
| Anthracite Coal | 54.3 | 34.7 | 39 | 61 |
| Notor vainicles | 47.1 | 53.9 | 33 | 67 |
| Furniture | 46.3 | 53.7 | 33 | 68 |
| Auto Tipes and Tubes | 47.2 | 32.8 | 27 | 73 |
| Cement | 40.3 | 59.7 | 27. | 73 |
| Iron and Steel | 45.1 | 54.9 | 32 | 78 |
| Lurber | 36.1 | 73.9 | 20 | 80 |
| Acricultural |  |  |  |  |
| Implenents | 25.2 | 74.8 | 13 | 85 |
| Bricir, Tile, otc. | 23.8 | $75 . ?$ | 15 | 85 |
| Resiciential Builing | 0.0 | 91.0 | 3 | 91 |

(*) Seasonel Veriation allonvè for.
Inclez numbors calculatod from data mublishod by Buroeu of Laonr Statistics, with folloming ozemtions: Railroad date pesed on number employed and man-hours rovked as zublished by the Interstate Commorec Commission; residontinl bilding indaxes are ayroxime te shd besed on building contrects awnod, as roontee or F. W. Docge, and building costs as estimatod by Endineuring Revs Record.

As hoursmer-wed froin thich to calcule total mon-hours are not evailable from tie Buren of Ifjor Statistics for all industries in 1929, estimatus beses on IJtional Incustrisl Conterence Board oir other aveilablo ciate were us $d$ in some caces.

```
MHROGETCY REIISN
    Prom
    FUSIIC FUSDS
```


## Selecter, Fonths

$\frac{\text { Wumber of Prmilizs and Pasons }}{\text { (thousnes) }}$
March, 1933
INevember, 1933
June, 1934
Soptomber, 1934
Jenuary, 1935
Soptumber, 1935
Tamilios $\frac{\text { Number of Prmilies and Parsons }}{\text { (thousnes) }}$

| 4,560 |  |  |
| :--- | :--- | :--- |
| 3,565 | 461 | 15,080 |
| 3,767 | 661 | 16,386 |
| 4,075 | 657 | 18,316 |
| 4,615 | 850 | 20,654 |
| 3,254 | 656 | $14,192 \$ 1$ |

a/ Not including those tronsferred to Rurol Penobilitation Prosram in July, 1935

Totel Obligations Incurrod for Reliof $\frac{\text { from } 11 \text { Public Fuides }}{\text { (millions of dollars) }}$

1933
19.34

1935*

| Foderel |  | State |  | Lncel |  | Tots 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amo |  | Amo |  | Amo |  |  |
| 481 | 60.6 | 113 | 14.3 | 199 | 25.1 | 793 |
| 1066 | 72.2 | 185 | 12.6 | 225 | 15.2 | 1476 |
| 1179 | 73.4 | 163 | 10.6 | 198 | 13.8 | 1540 |

(*) 9 Montis
Source: Roport of the Federal Emeroncy Roli if Acministration.

## 3. TEE PROBLEM OR ADJSMDIT TO CHACE

Two types of change rere brought to the attention of IT.R.A. These were, the displacenent of labor by labor-savin, devices, and industrial migrations from one recion to another. Some ver, broad mensures of change are provided in Table 9, taken from "Tho Gross Hetional Product and its Comonents", by Clark Tarburton, Journal of the American Stam tistical Association, December, 1934.1/ The anount of consumers' expenditures, relative as well as ajsolute, floring into each of the broad classes of goods and services shows pronounced shints durins the ten year period 1919-1929. Food, attire and social organizations grev scarcely at all, rhile shelter, transportation, education, recreation and stimulants increased nariedly, especially the last tro.

## TECH:OLOGICAI DISPLACEITIT OF LABOR

To the unemployment due to decline in production is added the unemployment due to elimination of morlers by labor-snving machinery from sone industries faster than they con acquire ner skills and he absoroed by other industries. Chart 9 orings out clearly a striking contrast betioen the relation of factory production and emmoment before and after 1920.

Before 1920, manufacturins production and employment moved up tosether fairly rell, after 1920 they pulled apart.

Chart 10 presents some factors in manufacturing. Production (Federal Reserve 3oard Index), employnent and payrolls (Bureau of Labor Statistics are shorm, and an index of averace hourly rages, as estinated by the Gational Industrial Conference Board. Dividing the index of payrolls by the index of hourly earnings rives a rough estimate of main-hours. Dividins production man-hours gives an outout per man-hour, the topmost line on the chart, rising rapialy throughout the period. The labor cost per unit of output mas be ampoximated by dividing payrolls by production. Althou this procedure, on account of unavoidable imperfections in the basic data, mar not be right in detail, it reveals highly interesting trends.

Output per man-hour shomed a rapid advance durins the trenties, and labor cost per unit a rapid decline. The period shored a net loss in employnent, apparently morkers eliminated from one manufacturing industry by technological improvements mere not all reabsorbed by other manufacturing industries. At the three principal peaks of nonufacturing activity in 1920, 1923 and 1929 there vere progressively femer at morls in factories.

I/ These amounts are considerably larger than the national income figures issued by the Denartment of Comnerce, being prepared on a different basis, and including certain items not included in the Jepartment's compilation, such as "imputed income."

# The Gross National Product and Its Components 

TABLE
VALUE OF THE GROSS NATIONAL PRODLCT，1919－1829＊
（Millions of dollars）


B．Capital goods

|  | 1929 | 1927 | 1925 | 1923 | 1921 | 1918 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Structures and equipment | 17.442 | 16.941 | 16.888 | 13.840 | 8.324 | 10.872 |
| Changes in inventories． | 571 | ． 156 | 3.184 | 2，784 | $-4.403$ | 0，815 |
| Change in foreign invertment | 221 | 405 | 520 | －21 | 875 | 2，236 |
| Total capital goods | 19．1 | 17，502 | 20.0 | 18，043 | 4，730 | 18.027 |
| Value of groes national product－ail items， | 190．5．5．1 | 47．Auy | 洪，○5A | 88，381 | 69，209 | 79，930 |

[^0]Table $b$ is a first approximation to a measurement of the flow of income and other funds available for purchasing final products．

TABLE b
TOTAL AMOUNT OF FUNDS AVAILABLE FOR PURCHASING FINAL PRODUCTB， 1919－1929
（Preliminary eatimateo－millions of dollara）


[^1]Average
ifumber
Employed (000's)

FRB Inde: 01
llamuacturinc
Proủuction

| 1919 | 9,041 | 84 |
| :--- | :--- | ---: |
| 1929 | $9,145-E$ | 87 |
| 1923 | 8,738 | 101 |
| 1929 | 8,339 | 119 |

excent for a slight pic!-w in 1.929.
The National Bureau of Economic Research oresents in Economic Bulletin 58 the following estinates of out out ber rase earner and per man hours durin; 1929-1931.

OUTpUI par wage eapiter aitd pur ilair hour iif liaituraciuring ESTILATES* OF CHAiGES, 19:39-1934.
(I)

| Physical Outiout of ilanufacture | Averare Ino. of wage earners | Average Hours Torked. | $\begin{aligned} & \text { I!an } \\ & \text { Fours } \\ & \text { (3) x (4) } \end{aligned}$ | Cutput Per <br> Tace Earner $(2) \div(3)$ | Outout Per <br> Hour <br> Man $(2) \div(5)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 100 | 100 | 100 | 100 | 100 | 100 |
| 84. | 87 | 93 | 31 | 97 | 104 |
| 72 | 74 | 87 | 34 | 97 | 112 |
| 57 | 62 | 77 | 48 | 91 | 118 |
| 65 | 53 | 73 | 53 | 24 | 123 |
| 39 | 73 | 70 | 55 | 33 | 125 |

In the light of apparent trenes in the above fectors hor far rould a recovery in production have to 60 to restore nanufacturing enoloynent to the pre-depression level?

Associated with this movenent amoy from manufacturing nas a movement into the so-celled service accupations; real estate, finance, retail trade, the professions, other "ohite collor" occupations, and Jomestic and personal services. See Table 3 . It should be adec that "cainruly occupied" in Census uscae does not mean "at "7ori", but inclukes "all versons 10 years old and aver rho usually follor a sainfol occupation, even though they nay not have been emolored rhen the census mas telrei." It is estimated that over 4,000, D00 of the 48,350,000 zainfully occuvied as of April, 1930, were out of worl. Fiom many of the several million additions to those gainfully occusied in the above service occuotions mere firmly absorbed and

[^2]CHART 9
FACTORY PRODUCTIO AND EMPLOYMENT


FACTORS OF MANUFÄCTURING PRODUCTION
CHART 10



60 60

40 ….....

20

9820

The very larse number easafed in personel service occurations directly dependent on consuner ourchacinc norer, showld wern one against overemonaslzine the iurcinle roods moblen. Pro.metion of conswners coods and services in 1929 was more than four tines the production of croital roods, in terms of value.

Industrial nirration innase uvi us problems on tir $r$ gion fron which the In ustry is migratirg - loss of malomont to the rosidente, loss of taxs to the coumaity, total or almost total naralysic uf the canital goas industry in tir ovacuatn $r$ rions. quite apart from ultimat: longtinc onfits, to the country as a woly, the question ariscs whother ticse siifts co or do -1ot impos, Etraine on the conomy which represent a not loss f r a shoxt time, at anir rate.

Onc cuch shift, wich has been wiezly oberrvec, is the moverant to the suiurus for residenco purposes rare nossible by tioc automobilo anz exprose hiehwas. Values in the partially abondons urvan aras wer affected, and in turn mortsascs and bame coosits bacoca by murto sac' $\sim$.

Tro important ineustrial migrations arc the migration of tinc Cotton Toxtile Induetry from I'ev Encland to tho Sontin, and the mi gration of
 Westirn States. Trblns 10-30 nesent cortain ceta rardin these industrićs. Table ga shows value of product, peyroll anc. mill balance cotton singlo hours in tir Tortheactern end Southeastcrn states in 1919 anc 1935. Bitwen 20 ani 30w, of the valu, parrolle and mille bnlonce vas involved in tine sinift.

Table 10 showe cho procuction in Mrssechuscts, bucc them man contrip of the sho incustry. In 1823 hoss chus tta presuced 47 por cont of all shoos proctuced in the Unit. States. This rerntame fell stiadily to 35 per cont in 1219 and continuce to fali tincrafter witil 20 por cont was rach d in 1934.

Scucral causes inv: $u$ n veduced to mpian tresc migrations. Thero aro possibl cavince i:l trasenortation cineros from locoting noaror thr cources of rar wat-iale anfor mets. Fonts ond tazes may b lower in tin n. w locations. Lous costs mr unit of outpute may diffre Some cata on rimal diffen nes in hourly ware rates ar prosentud, to wich tir racer is rarrd. It shoula be notrd that theos hourly rage retes are not necesarily geod monoure of labor cost. Adivantars of certain regions in trie r spect ray be more awaront than ral. tow ffici ncy may nore tinn offset low hourly wage rates and result in labor cost even higner than in nigh vago regions.

## TABIE 10

##  <br> 



$$
\begin{aligned}
& \text { (iflizons of } \\
& \text { spindle nurs) }
\end{aligned}
$$

| 1901-33 | 39,007 | 36,735 | $44^{r, 1}, 41$ | 41.3 | 53.6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1923-33 | 101,031 | 41,371 | 5.,796 | 40.3 | $5 \pm .7$ |
| 19:20- | 83,560 | 30,102 | 50,523 | 35.7 , | 59.9 |
| 192-25 | 21, 255 | [1,201 | 55,312 | 31.3 | 61.4 |
| 1225-26 | 23,241 | 31,511 | 55,518 | 35.6 | 62.3 |
| 1220-27 | 106,605 | 35, 250 | 65, E65 | 35.8 | 64.1 |
| 13:37-28 | 26,451 | 27,862 | 65,272 | 28.? | 67.7 |
| 1932-20 | 20-604 | 28,253 | 65,361 | 28.3 | 68.6 |
| 1930-50 | 37,515 | 23, 278 | 61,873 | 26.5 | 78.7 |
| 1930-31 | 75,263 | 18,757 | 54, 482 | 21.9 | 72.4 |
| 1931-32 | 68,755 | 13,260 | 63,613 | 13.3 | 73. |
| 1932-35 | 85,255 | 17,251 | 63,366 | 37.2 | 77.3 |
| 1353-24 | 80,412 | 13,202 | -0,291 | 24.7 | 73.8 |
| 1954-35 | 72,526 | 10, 4.5 | 54,643 | 22.4 | 75.4 |


Souree: Cotton Production and Diatribution, Eureau of twe Cenous.

## GOGRAPIIOALSEITIS



|  | $\begin{aligned} & \text { Value nf Froduct } \\ & \text { (millions) } \\ & 1919 \quad 1933 \end{aligned}$ |  | $\begin{aligned} & \text { Fer Cont } \\ & \text { of Tutal } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1913 | 1353 |
| Northeastern States a/ | 1,114 | 217 | 52.5 | 25.2 |
| Southeastern Statce b/ | 882 | 583 | 41.5 | 67.7 |
| Other States | 125 | 61 | 5.2 | 7.1 |
| Total United States | 2,121 | 861 | 100.0 | 100. |
|  | $\begin{aligned} & \text { Fay Rnll } \\ & \text { (milinnz) } \end{aligned}$ |  | Fer Cont ○f Total |  |
|  | 1919 | 1033 | 1913 | 1933 |
| Northeastern Statos al | 133 | 6.3 | 56.3 | 23.3 |
| Scutheastern Statas b/ | 184 | 138 | 37.8 | 63.8 |
| 3ther Statos | 23 | 15 | 6.2 | 6.3 |
| Total United Statos | 355 | 216 | 10.6 | 10.0 |
|  | $\underset{(\text { Jijillionc })}{ }$ |  | $\begin{aligned} & \text { Per Cent } \\ & \text { of Total } \end{aligned}$ |  |
|  | 1813 | 1033 | 1919 | 1933 |
| Northeastern States a/ | 248 | $4 \div$ | 49.5 | 26.1 |
| Southeastern States b/ | [13 | 110 | 42.1 | 65.7 |
| Dther States | 41 | 14 | 8.1 | 8.2 |
| Total United Statas | 531 | 168 | 100.0 | 10. |

[^3]
## TABIE 12

DOOR AO SZOE P:ODUCIO I HSSACASEIS

| Year | Fairs jroduced in hassachmsetts | Inler of sauchusetts Prociuction, $1532-100$ | Fer Cont of Mascachusetts Frociaction to Ttional Frouction |
| :---: | :---: | :---: | :---: |
| 1390 | $102,732,345$ | 100.0 | 27.13\% |
| 1904 | 107,259,876 | 104.4 | 44.30 |
| 1909 | 118,079,926 | 111.9 | 41.40 |
| 1014 | 115, $2 \times 1,583$ | 112.2 | 39.37 |
| 1919 | 116,992,913 | 113.3 | 35.32 |
| 1921 | :35,81?,586 | 8.). 5 | 29.93 |
| 1923 | 82,517,531 | 87.1 | 25.50 |
| 1925 | 72,366,595 | 70.3 | 22.34 |
| 1926 | 73,851, 15 | \%.9 | 22.45 |
| 19:37 | 73,122,264 | 78.1 | 22.75 |
| 19.28 | 83,310,635 | 81.1 | 24.19 |
| 1929 | 3,539,555 | 81.3 | 23.12 |
| 1930 | 0,510, 170 | 67.7 | 22.35 |
| 1931 | 72,793,702 | 70.3 | 25.02 |
| 1932 | '2, 238,038 | 72.0 | 20.62 |
| 1333 | 74,981,699 | 28.0 | 21.40 |
| 1234 | 71,614,123 | 60.7 | 2). 05 |

Note: Fiwures wiver ainvo for rears 1893 to 19:1, inclusivp, vere talren from Consus of ismufacturere, wile those for ysarz 1923 to 1534 vero taten irom Burean of the Conrus Jiennrts. For the rears 1923 to 1930, inclusive, the follouine noto apeared on the Cencus report: "Stotistics for iassachusetts...include a fev plants located in otier states, but such plants are not reliovedi to be of sufficient imortance to materially irfluence enmarisons."

Averace Hourly Earnines by States, 1934, 1932, 1930

|  | 1 a 1e |  |  | Eemale |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $1934{ }^{\text {a }}$ | $1932^{\text {b }}$ | $1930^{\circ}$ | 1934 ${ }^{\text {a }}$ | $1932{ }^{\text {b }}$ | $1930{ }^{\text {b }}$ |
| Iensscinmsetts | 57.56 | 55.7 | $67.1{ }_{6}$ | 42.4\% | 35.4 ¢ | 44.66 |
| Iow Harrosirire | 58.7 | . 43.9 | 50.5 | 45.0 | 29.1 | 34.9 |
| laine | 49.7 | 44.7 | 51.1 | 38.9 | 29.9 | 36.0 |
| ITev Yome | 61.4 | 53.6 | 66.6 | 44.9 | 34.0 | 41.1 |
| Ohio | 5.2 | 48.5 | 59.0 | 39.3 | 29.2 | 56.1 |
| Pomstrania | 47.4 | 40.8 | 51.2 | 35.9 | 24.8 | 33.1 |
| Wisconsin | 56.5 | 48.1 | 60.2 | 41.0 | 35.6 | 40.9 |
| lissouri | $52 . \dot{2}$ | 47.3 | 54.8 | 37.7 | 27.3 | 32.1 |
| Illinois | 50.5 | 42.7 | 62.4 | 37.4 | 27.2 | 37.6 |

Ine suread betreen the hich and lom States mas less in 1934 than in 1930:

|  | Male |  |  | Female |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lom | Hich | Rance | Low | High | Range |
| 1034 | 47.4 | -61.4 | 14.0\% | 35.9,hr | $45.0,6$ | 9.18 |
| 1932 | 40.8 | 55.7 | 14.9 | 24.8 | 35.4 | 10.6 |
| 1930 | 50.5 | 67.1 | 16.6 | 22.1 | 44.6 | 12.5 |

There has also been a narroving of the differential hourly earnings as betrreen male and female:

| Lorest State for | Firhest State for |
| :---: | :---: |
| hales Jxceeds Lorest | liales Exceeds Highest |
| for Feneles br | For lemales by |
| $11.5 \% \mathrm{hr}$ | $16.46^{5} \mathrm{hr}$. |
| 1.6 .0 | 20.3 |
| 18.4 | 22.5 |


| 1054 | $11.5 \psi \mathrm{hr}$ | $16.4 \xi^{6} \mathrm{hr}$. |
| :--- | :--- | :--- |
| 1050 | 1.6 .0 | 20.3 |
| 1900 | 18.4 | 22.5 |

a. Sce Renort of Survey Comittee on the operation of the Code for the 3 not and Shoe Industry, IRA Division of Review, July 16, 1935.
b. Bullotin No. 579, Bureau of Labor Statistics: Mages and Hours, Soot end Shoe Industry, 1932, p. 22.
 $3 I^{\circ}$ AVERGE HOURLI EHPITIS WAGE GFOUDS, SEGRZGATED BY THE POPULATION CLASSITICATIONS PRESCRIBID IN THE CODE, FOR EACH Or THE PRIIICIPAL SHOE PRODIJCIMG STATES, BASED OIT
 IN OCTOBER, 1934

Percentase of Employes Earnins, Per Hour

In Citiss of over

| Less than |
| :---: |
| $40 d$ |


| $40 \%$ to | $50 \%$ to |
| :---: | :---: |
| $50 \%$ | $60 \phi$ |

$60 \phi$ to
$70 \phi$

Over 706 250,000, including 18,587 moloyees

| Massachusetts | $19.37 \%$ | $19.65 \%$ | $15.29 \%$ | $22.71 \%$ | $22.98 \%$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Nem York | 18.20 | 18.04 | 14.90 | 11.98 | 36.88 |
| Onio | 15.46 | 22.49 | 19.36 | 17.46 | 25.23 |
| Pennsyvania | 14.31 | 20.37 | 20.05 | 18.07 | 27.20 |
| Tisconsin | 9.97 | 26.27 | 19.11 | 19.38 | 23.27 |
| Iissouri | 15.04 | 14.28 | 14.96 | 25.22 | 30.50 |
| Illinois | 20.13 | 16.19 | 9.15 | 46.48 | 8.05 |

In cities of 20,000 to 250,000, including 23,413 Emlores

| Massachusetts | 14:98\% | 20.34\% | 19.70\% | 18.82\% | $26.16 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ievt Fampshire | 11.54 | 16.49 | 15.44 | 15.94 | 40.59 |
| Maine | 27.98 | 20.90 | 23.51 | 11.95 | 15.66 |
| Wern Yors | 15.32 | 18.90 | 23.32 | 18.71 | 20.69 |
| Ohio | 24.15 | 22.45 | 21.98 | 16.07 | 15.35 |
| Penns-1vania | 43.27 | 29.68 | 15.39 | 8.46 | 3.20 |
| Misconsin | 12.93 | 26.68 | 19.75 | 20.09 | 20.55 |
| ilissouri | 27.74 | 25.21 | 27.21 | 12.24 | 7.60 |
| Illizois | 36.16 | 20.79 | 23.05 | 13.51 | 6.49 |

In Cities and Torns of Less than 20,000 , Including 43,840 Emoloyes

| Iessachusetts | $24.87 \%$ | $21.57 \%$ | $19.77 \%$ | $15.69 \%$ | $18.10 \%$ |
| :--- | ---: | :--- | :--- | :--- | :--- |
| Men Hampshire | 41.13 | 19.18 | 17.17 | 11.00 | 11.52 |
| Maine | 37.07 | 24.04 | 16.55 | 11.14 | 11.20 |
| Men Yor: | 9.31 | 18.10 | 20.15 | 20.84 | 31.62 |
| Onio | 35.93 | 26.02 | 20.15 | 12.11 | 5.79 |
| Pennsivania | 48.34 | 24.96 | 14.48 | 7.12 | 5.10 |
| Tisconsin | 29.30 | 25.51 | 21.66 | 14.26 | 0.27 |
| IIssouri | 31.38 | 26.95 | 20.98 | 13.40 | 7.29 |
| Illinois | 32.89 | 26.73 | 21.08 | 13.14 | 6.16 |

Source: Revort of the Survey of the Commttee on the operation of the Code for the Boot and Shoe Industry, R RA Division of Review, July 16, 1935. Compiled fron Lonthly Report to the Bureau of the Census.

```
PZACETAGE DISIRIBUIIO: O- NH, TUIES O" ITAIE JIPIOYES
B" AVEIAGE HOUHIT FARITMG TAGT GROUPS, SEGREGATED BI THE
PUPULATIOIN CLASSITICATIOIS PRESCRIBED I: THE CODE, FOR
ZACE OR THE PRIMCIFAI SHOE PRODUCITG STATES. EASED OH
DATA ZURITSIED BY MEMBERS OF THE IDDUSTRY TON OII WNEL
```

IN OCTOBER， 1934

## Percentace of Mmoloyes Earning，Fer Gour

| Less than | 35,4 to | $40 \%$ to | 45，to | Orow |
| :---: | :---: | :---: | :---: | :---: |
| 35.4 | $40 ¢$ | 454 | 502 | 36 |

In Cities of over

## 402



| ssacinusetts | 25.67 湤 |
| :---: | :---: |
| Ievt Yor | 35.30 |
| Ohio | 23.14 |
| Pemsrlvaia | 23.99 |
| Tisconsin | 19.84 |
| iissouri | 31.06 |
| Illionis | 35.94 |


| $22.28 \%$ | 18.026 |
| :--- | :--- |
| 25.19 | 12.16 |
| 21.95 | 19.06 |
| 20.06 | 10.29 |
| 2165 | 19.76 |
| 26.71 | 21.73 |
| 13.31 | 25.51 |


| $13.27 \%$ | $20.76 \%$ |
| :---: | :---: |
| 10.51 | 10.84 |
| 11.99 | 10.82 |
| 10.90 | 26.79 |
| 17.67 | 21.08 |
| 11.13 | 19.37 |
| 5.42 | 5.35 |

In Cities of 20，000 to 250，000，includ－
ins 18，923 mmores


| $26.26 \%$ | $21.65 \%$ | $17.04,0$ |
| :--- | :--- | ---: |
| 18.12 | 13.11 | 12.57 |
| 40.51 | 15.82 | 13.29 |
| 31.97 | 23.26 | 14.87 |
| 40.52 | 25.48 | 16.84 |
| 58.44 | 25.23 | 7.79 |
| 40.89 | 23.51 | 18.02 |
| 67.21 | 21.28 | 6.70 |
| 54.32 | 22.94 | 10.43 |


| $13.14 \%$ | $21.02 \%$ |
| ---: | ---: |
| 12.46 | 40.72 |
| 5.06 | 32.32 |
| 13.45 | 16.46 |
| 10.02 | 7.14 |
| 5.38 | 0.10 |
| 3.52 | 0.00 |
| 2.48 | .36 |
| 7.09 | 5.22 |

In Cities cind．Toums of
Less tien 20，000，in－
cludiac 34，150 zmplores


Sownce：Sume as Trible 15.


|  <br>  March, 1934 arch, 1935 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Earnings Per Hour | Total | $\begin{gathered} \text { In Cit- } \\ \text { ies } \\ \text { over } \\ 250,000 \\ \hline \end{gathered}$ | In Cit$\mathbf{i} \in s$ of 20,030 to 250,000 | In Cit- <br> ies and Towns Tinder 20.000 | Cities and Towns in Southern States | Total | ```In Cit- i\ins over 250,000``` | In Cities of 20,000 to 250,000 | $\begin{gathered} \text { In Cit- } \\ \text { ies and } \\ \text { Toms } \\ \text { Under } \\ 20,000 \end{gathered}$ | Cities and Toms in <br> Southern States |
| $\begin{gathered} \text { Less than } \\ 30 \end{gathered}$ | $5.35 \%$ | 2.50\% | 3.96 .0 | 7.73\% | 10.50 | 3.69\% | 2.05 | 2.720 | 4.71: | 6.72\% |
|  | 24.33 | 3.63 | 3.33 | 38.40 | 52.35 | 19.03 | 2.87 | 5.33 | 32.66 | 43.73 |
| $32 \frac{1}{2} \psi$ | 34.503 | 5.60 | 32.11 | 44.26 | 58.34 | 23.52 | 5.54 | 26.59 | 37.71 | 49.93 |
| 35. | 47.90 | 31.96 | 42.13 | 54.93 | 69.43 | 41.37 | 28.46 | 36.55 | 47.95 | 62.10 |
| 36㐌为 | 54.00 | 37.41 | 48.65 | 61.11 | 75.27 | 47.77 | 34.13 | 42.99 | 54.57 | E9.23 |
| $37 \frac{1}{2} \phi$ | 52.c2 | 41.35 | 53.27 | 64.76 | 79.66 | 52.63 | 38.13 | 47.42 | 52.88 | 73.17 |
| 405 | 56.63 | 52.00 | 92.69 | 72.75 | 85.96 | 60.83 | 48.12 | 56.16 | 67.24 | 21.24 |
| 454 | 79.63 | $72 \cdot 34$ | 75.33 | 33.50 | 93.52 | 75.76 | 58.26 | 71.32 | 80.18 | 96.45 |
| 56 | 88.04 | 24.07 | 24.99 | 90.33 | 57.16 | 35.65 | 81.43 | 81.86 | 83.86 | 95.81 |
| 60. | 96.12 | 94.94 | 94.50 | 97.14 | 99.56 | 94.90 | 93.74 | 92.82 | 96.25 | 99.24 |
| 70. | 98.89 | 93.40 | 98.29 | 99.31 | 99.89 | 52.41 | 98.66 | 57.44 | 99.63 | 99.70 |
| 7et and or | er 1.11 | 1. 6 c | 1.71 | 69 | . 21 | 1.59 | 1.94 | 2.56 | . 27 | . 38 |
| TOTAL. <br> rumber of | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.0 C | 10.00 | 100.06 |
| Erroloyees | 32,957 | 15,160 | 23,233 | 40,229 | 4,285 | 89.349 | 18,597 | 25,340 | 41,622 | 4,29) |
| $\begin{array}{r} \text { HOTE: } \\ \text { amoroximat } \\ \text { Comoi } \\ \text { industry } \end{array}$ | Percen ly the led from - one | tages un minimum reports eek in ea | lined ind <br> e. <br> Bureau month. | dicate the <br> of Census <br> Same as T | percentage <br> umparizing ble 15. | $0^{\circ} \text { emolo }$ <br> wage dat | oyes rece ta submit | iving less <br> ted by men | than or <br> hers of |  |

> -41-

## CHART II



## CHART 12

IVRRME BOURCI EAGE FUTBS IE.
THB LOMBER IRDOSTR (SAMEILSS) IM THE
HEST ARD SOUTM, 1823 - 1834


Source: Data for pre-code years compiled from B.L.S. state averages; for post-code dates from Lumber Code Authority data for the Southern Pine and Tiest Coast Divisions. See attached table:

Division of Research and Planning, NRA

## CHART

ACTUAL EOURIY RARNINOS BOOP AND SHOE INDUSTHY

South-Male and Female Enplofees. Percentage Diatribution by Hourly Sarninga.

The beight of sech oolum shows the percentage of amployese whose oarnings fall in the intervel represented by the bese of the colum. Percentages are based on reports to the Bureau of consus oovering 5125 melo and 4285 female amployees for a ment in March, 1934.


8
8
8
8
8
8
8
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8
8
4
4
coss M12imum


## CHART 14

AGTUAL HOURLY RAPNINGS-BOOT AND SHOE DNDUBTKY
Korth--bale Employees. Percentage Dietribution by Hourly garnings in Cities of Large, Medium and Small Sizes.

The height of each colum shows the percentage of aployees whoes earnings fall in the interval represented by the base of the colum. Persenteges are besed on reports to the Bureau of Census covering 96,078 male employees for a meek in March, 1934.




9820

## CHART

## CTHAL HOUREI EARNINGS-BOOT AND SHOR IEDUSTIRI

Forth-Female Aaployeed. Parcentage Mstributiong by Hourly Barnings in Cities of Large, Hedium and Small Sises.

The hoight of each column shows the parcentage of emplojeen whoee earnings fall in the intorval represented by the base of the colum. Percontagee are bassd on roports to the Barasn of Census covering 78,672 femals gaployees for a Feok in Laroh, 1934.



Aoturi Barnings in Cente per Howr.

Whatever the explanation, it is a fact that some prices dropped precipitously during the depression, while others receded but little from the 1929 levels. Chart 16 shows indexes for ten groups of commodities, flexible, intermediate and rigid. The basis of classification is the number of month-to-month changes out of 94 opoortunities for change durins January, 1936, throush Norember. 1933.

Group I includes those commodities which remained unchanged, Group II, those which changed I to 4 times, and so on, to Group X, which includes thuse commodities changing price at least once a month. (Source: Industrial Prices and their Relative Inflexibility, Senate Document No. 13,74 th Congress)

One qualification is necessary. Particularly in the"rigid" groups the basic data are sometimes nominal or price list quotations, and the actual net price to purchasers after discounts, terms and allowances, may be fairly flexible. Nevertheless, in its main outlines, the picture is substantially correct.

Chart 17 shows per cent deviations of price indexes principal of commodity, sroups from the all-comodity index. As the statistician would say, each has been "deflated" by the wholesale price index. Metals and metal products, chemicals and druss, and builcins materials, dropped less than the average during the depression, and accordingly their "deflated" indexes measure above lon. Textiles and their products, farm prices, and focd products fell much faster and farther than the average, and so their "deflated" indezes go weil below lon.

Chart 18 shows the ratio of flexible prices to rigid prices. The Federal Reserve Board Index of Production is included for comparison.

Many economists have said that lack of balance, malad.justment between groups of prices, was a contributing, or at least an agrravating cause of the depression. Some assert that prices of flexible - priced goods (chiefly farm products) must be brought up into line with other prices if soods were to interchange in volume. Others claim that price reductions, particularly for manufactured products, would bring these goods within reach of an ever-widening circle of consumers. An expansion of volume would follow, which would increase work opportunities.

Still others say that price cutting starts a ricious circle of wage cutting, lessened purchasing power, lessened volume decreased employment, and finally around to more price cutting. Demoralized prices, they say, sap the power of an industry to carry a reemployment load.

What constitutes a healthy, in-balance price structure? When are prices in adjustinent? Where should individual prices go in order to unblock the flow of trade? If pre-depression relationships represent adjustment, then the last thirty months have witnessed a restoration of balance. Deflated price indexes for important grouns, notably metals and metal products, and farm products, have returned towards the zero line. Raw materials, after gettins 20\% "out of line" with respect to the all-comnodity index, are now only 3 or $4 \%$ "out of line."

Some would deny that the above constitintes a gocd mensure of price adjustment. Nany chances in costs, quality, domand and suoply have taken olace in the last six years mhich mat call for nev price relationshins. The relntion of price to costs may be a better measure of adjustment than tho relation to an averege of all prices.

A classification of code provisions dealing with prices will be found in "Content of N.R.A. Administrative Lesislation, Part C."

The building industry has often been singled out as one in which prices are allercedy out of line, to such an extent, so it is said, as to be a seriulus bar to recovery. Chart 21 shows some statistical series related to building, and charts $22-43$ the course of prices of imortant building materials from 1919 to 1934.

PRICES UP VARIUUS FRUDUCTS ATD SEMVICES IN 1939, NTIN INB. 1933 a/ SUME RIGID AID SEM-RIGID FRICES 1929

Freight rates
Passencer rates
Postal rates, first class
postal rates. other
Fomestic electricity (1)
" " (2)
Telephone rates
Manufactured gas per 1000
Motor Vehicles a/
Acricultural Implements a/
Cement
Structural Steel
Nickel
Aluninum, per lb.
Antracite corl
Bituminous Coal
Coke
PRICES UF INTCRMEDIATE FLAXIEIIITY
Furniture
House Furnishinss
Building materials, n.e.s.
Brick and Tile
Paper and Fulp
Drucs and pharmaceuticals
Boots and Shoes
Iron and Steel
Chomicals
SUME FLEXIBLE PIICES
Grains
Live Stock and Poultry
Other Farm Froducts
Meats
Fruits and $V$;etables
Cereal produrits
Hides and Sk.ns
Leather
Cotton Gouds
Gilik and Rayon
Woolen and Worsted
Knit Goods
Clothing
Petroleum products
Non-ferrous inetals
Lumber
Faint Ma.terials
Flumbing and Heatins
Mixed fertilizers
Fertilizer Materials
Automobile tires
Crude Rubber

|  | some decreases |  |
| :---: | :---: | :---: |
|  | some decreases |  |
| 2中 | $3 \phi$ <br> meny increases | +50\% |
| 6. $5 \dot{\psi}$ | 5.6 | $-14$ |
| 83.3 | 80.2 | - 4 |
|  | some decreases |  |
| \$1.21 | 1.15 | - 5 |
| 106.7 | 90.9 | - 15 |
| 98.7 | 83.1 | - 16 |
| 91.8 | 81.8 | - 11 |
| 98.1 | 81.7 | $-17$ |
| 35\% | $35 \psi$ | 0 |
| 23.90 .6 | 23.90) | - 4 |
| 9 9.1 | 88.7 | - 2 |
| 91.3 | 79.4 | - 13 |
| 84.6 | 75.2 | - 11 |


| 96.0 | 71.9 | -25 |
| :--- | :--- | :--- |
| 97.5 | 72.9 | -25 |
| 106.9 | 59.9 | -35 |
| 91.1 | 75.1 | -18 |
| 87.9 | 72.1 | -18 |
| 71.5 | 54.8 | -23 |
| 106.3 | 83.3 | -22 |
| 94.9 | 77.3 | -29 |
| 99.1 | 79.0 | -29 |

97.4 32.7 -64
106.1 4n.1 -62

| 106.6 | 44.2 | -59 |
| :--- | :--- | :--- |

$109.150 .2-54$

| 97.8 | 52.4 | -46 |
| :--- | :--- | :--- |

88.! 6n.4 - 41
112.7 40.9 -64
$113.255 .3-51$
99.4 40.1 -51
8).1 $25.6-68$
97.8 53.2 - 45
$88.548 .3-45$
9n.1 61.2 -32

| 71.3 | 34.3 | -52 |
| :--- | :--- | :--- |

$106.146 .2 \quad-57$
$94.555 .4-40$

| 91.3 | 59.4 | -35 |
| :--- | :--- | :--- |

$95.0 \quad 59.4-38$
$97.262 .4-36$
$92.1-61.5-33$
$55.642 .6 \quad-23$
42.3 6.1 - 86

Sources: Bureau of Labor Statistics Frice Indexes; Standard Statistics Busc Book. (l'Zead from chart published in "Business Week" for Seut. 29, 1934. (2) Monthly Lavor Review, Aug. 1934, p. 510.
a/Accurate measixement of price changes of articles which change markedly in quality is difficult if not impossible. Adjustment of these figures for quality variations would show lareer price decreases.

CHART 16
Re! ation between Frequency of Price Change and Magnitude



COMPARISON OF COMMODITY GROUP AVERAGE PRICES WITH GENERAL WHOLESALE PRICE LEVEL.
( $A$ : S GRCUP incex COMPARED TO ALL COMMODITIES INDEX)


## CHART ${ }^{53} 17$ (CONT.)

COMPARISON OF COMMODITY GROUP AVERAGE PRICES WITH GENERAL WHOLESALE PRICE LEVEL.
(b.ls gatup inoex compared to all commooities index)





CHAR: 21

INDEX OF RETAIL BUILDING MATERIALS PRICES-SEPT. 192I-MAR. $1935^{*}$


RESEARCH \& PLANNING

$-60-$

## CHART 24

CRUSHED STONE RETAIL PRICES SEPT. 1921 -MAR. 1935 $3 / 4$ INCHES, L.C.L. DELIVERED


## CHART 25

BUILDING SAND RETAIL PRICES-SEPT. 1921-MAR. 1935.
L.C.L. DELIVERED

OOLLARS



## CHART 27

HOLLOW TILE RETAIL PRICES.SEPT. 1921-MAR. 1935. $0^{\prime \prime} \times 12^{\prime \prime} \times 12^{\prime \prime}$. L.C. L. DELIVERED


## CHART 28

GYPSUM PLASTER RETAIL PRICES-SEPT. 1921 TO MAR. 1935 GROIJND, L.C.L.DELIVERED


Housing "bullding 体taplale Pricas", Sept. 1921
RF SE ARCH AND PL ANNING
to Juna 1933.
Code Autherlty for the Bullder Supplias Trace,
Sept. igsy te Dec. roge.
Reporta to N.R.A irom Oullders supplise Ratablers,
Mar. 1938.

## CHART $2 \%$

GYPSUM BOARD RETAIL PRICES-SEPT. 1921- MAR. 1935 3/0 INCHES, L.C.L. DELIVERED



WHITE LEAD RETAIL PRICES - SEPT. 1921 TO MAR. 1935 IN OIL, L.C.L.DELIVERED


Source: Bureeu of Standerds, Diviston of Bullding and
Houslng, "Building Matarlals Pricee", Sept. 1921
N. R. A.
to June 1933.
Code Authorlty of the Laed Industry, Sept. 10ty
to Mar. 103m.

CHART 3云
ROSIN SIZED SHEETING RETAIL PRICES-SEPT. 1921-MAR. 1935 3 PLY 50 POUNDS PER ROLL, L.C.L DELIVERED
DOLLARS :R 500 SQ.FT.



SOURCE: BUREAU OF GTANDARDS. OIVISION OF BUILOING AND HOUSING,"BUILDING
MATERIALS PRICES; SEPT, H2I TO JUNE 1933
INDUSTRY GEPT 1933 RETAIL LUMBER ANO BUILDING MATERIALS PRODUCTS

[^4]

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## ULARS

 ) ). FTRESEARCH AND PLAMHINE

Reporte to M.R.A. Irom Reteilers, Sept. egs3 to
Maren 1935.
CHART 36
STEEL PIPE RETAIL PRICES - SEPT. 1921 - MAR. 1935.



9820

 9820
CHART 41






Freceding sections have oresented nrice, production and emolovment data seoarately. But they are interrelatoj in fact, and one cannot be changed without affecting tho others, and there are rany other factors beside these. How these factors wort together to encnurame expansion of an industry or comnel contraction, how the industry reacts to them, may be called the economic behavior of that industry, or its ooerative characteristics.

Remedial measures which take cognizance of these operating characteristics should have a better chance of obtaining their objectives.

An industry is an instrument through which ronds and services are suoplied. In the last analysis, its ouroose is to orovide products of one sort or another for consumers. But under the capitalist system this ourpose is attained as a by-oroduct of the quest for orofit, and is rarely envisaged as an end in itself. Each business decision, whether to expand production or contract it, to follom an erratic seasonal pattor in production or regularize it, to lower orices or raise them, to advertise, to improve auality, to introduce new products, or abandon old, to employ a large research staff, to install new machinery, to build a new olant, is made for the puroose of increasing profits or cutting deficits.

No industry is static. There are vast numbers of economic relationships with cutsile factors and among internal clements which are continually in a state of change. Profit opportunities are always changing. New products force out old, foreign nations but uo tariffs, there is a deflation of the general orice level, bank credit exoands or contracts, there is general prosperity or deoression, and so on. Pressure on the profit motive forces the industry to bow to the new trend. The usual conceotion of the dynamics of adjustment is that it occurs through the market place where any change roflects itself on price, under the sour of competition. But the extent of truth in this hyothesis is a matter for inquiry in each case. How does this particular industry adjust itselfi In some industries certain factors are extremely inflexible and the burden of any necessary adjustment must be taren uo elsewhere.

The significance and strength of various external and internal elements vary tremendously. There are areas of flexibility and others of inflexibility which accept or shift the turdens imoosed by the processes of change. An economic analysis must rogard an industry as a living organism and analyze (1) the external and internal sources of disturtance, (2) the processes whereby the industry makes its adjustments to these factors and (3) the effects of the vrocedure ucon the many interested parties.

The following charts prosent for somo imoortant industries a few of the factors whose interrelations require stud . Emoloyment, Dayrolls, orices and oroduction are shown for agriculture manufacturins and railroads. Price and oroduction charts are given for bituminous coal, cement, cigarettes, cotton, cotton sonds, nomsprint, nlate glass, sulfuric acid, and zinc.

CHART 44

AGRICULTURAL MARKETINGS, PRICES. HIRED LABOR, AND WAGE PAYMENTS
INDEX NUMBERS



JANUARY. 1923 TO DATE


1931
(03H3iN3
03NIEWOS

N3D 30
OEG



CHART 45


CHART 46
RAILWAY TRAFFIC, RATES, EMPLOYMENT, AND PAYROLLS
INDEX NUMBERS
$(1923-1925=100)$

CEART 47


CHART 48



CHART 50


CHART 5/



CHART 53


sonus aird



## E. THE PROBLM OE PURCNASIHG POTITR

Congress declared as a oolicy "to increase the consumotion of industrial and agricultural oroducts - ry ine peecine purchasing power." An increase in ourchasine vower is a pre-r auisite for recovery. What makes demand is desire olus money; demand equals want olus ourchasing cower.

Furchasing nower is not a ohrase of one meanins. A widely acceoted meaning makes it equivalent to the current case incomes of consumers what they receive currently in the form of wases, salaries, dividends and interest, and entroorencurial orofits, farm income bainc the largest single constituent of the last. A better definition mould be, the oower to buy consumers' gonds and services. This varies directly as the income, and inversely as the orice, both being of eaual imprrtance. Purchasing power in this sense can he taken away by a orice rise as surely and as unavoidably as by a drop in income.

The rest measure of the ourchasing power of a group is therefore, the ratio of the dollar amount of its income in the form of mages, et cetera, during an interval, to the level of prices of the goods it normally purchases. According to this definition, purchasing oomer can be created by a fall in the cost of living, even though the dcllar income remains unchanged, and ourchasing oower can be dostroyed by a sharo inflationary rise in the cost of living.

The princioal means selected by the NRA for increasing ourchasing oower of the laboring class were, the setting of minimum rates of day, eauitable adjustment of rates abovc the minimum, and decreased hours of work. It was recognized that raisine wages would raise costs, but manufacturers were asked to delay orice increases as lons as possible, and then to increase, them only by the amounts necessary to recouo the wage rise. The oroblem of the NRA was, to establish those minimum and above-the-minimum wage rates, which would bring about, or allow, the greatest increase in the total dollar volume of wage payments relative to the cost of living.

The most authoritative estimates of the cash incomes of the 40 to 50 million income recipients are those of the Bureau of Foreign and Domestic Commerce. These show a total of $\$ 78.6$ billion in 1929, shrinking to $\$ 148.4$ billion in 1332 and $\$ 44.9$ billion in 1933. Total labor income went down from $\$ 51.5$ billion to $\$ 30.9$ and $\$ 29.4$ billion in the same years. Percentasewise, this is about the same shrinkage as the total; both showed a $43 \%$ decline in 1933 comoared to 1929. Total labor income held up as well as it did because of salaries of tovernment emoloyeas, But wages in manufacturing, mining, construction and steam railroads, et cetera, the hard-hit areas, declined 58\%.

Recovery in income paid out to individuals started to recover in the second quarter of 1933, but the starting point was so low that even with continued recovery the 1933 total did not equal 1932 (see tables). However, 193A.excceded 1933 by a wide margin.

It is interesting to nnte that total labor income in 1934 was a larger prooortion of the total than oreviously, and that wages in mining, manufacturine, et cotera were a materially larger fraction of the toial than in 1932.

The tables alco show total income caid out by cach major industrial groud.

The month-ry-month course of wage oaymonts in manufacturine, railroads and farming is shown in chart 56. All. three fell about equally from 1929 to 1932. From the low ooint, factory payrolls have recoverod more than half thoir loss, while farm and railroad payments have advanced scarcely at all.

## Annual Incomes

What are the annual incomes of worers? These hare been estimated on a rough basis for seventeen important industries, by multiolying average weekly wages as revorted by the Bureau of Labor Statistics by 40 and 50. (Sec Tablo 25.) Thus in the automobilo and automotive varts industry meekly wages in 1934 and 1925 were $\$ 22.97$ and $\$ 26.56$ respectively. On the rasis of 10 weeks' mork der year these ficures indicate annual incomes of $\$ 919$ and $\$ 1062$ resocctively, and on the basis of 50 weeks per year, \$ll43 and $\$ 1328$ respectively.

In 1935, assuming 10 meeks' mork on the average, annual incomes ranged from $\$ 513$ for cotton toxtiles to 1205 for orintine and bublishing.

These, of course, are averages. Many emoloyees receive substantially less. Thus in cotton textiles, South, August 1931, 22.9\% of the males and $37 \%$ of the females received 3 or less. This was on a 30 -hour meek basis, during a curtailmeit. The code minimum was dlo a week, which amounts to $\$ 400$ a year if the mills orovide 40 full mesks of work.

## COSP OF IIVIVG

The other, and just as imoortant element of ourchasine nower is the cost of living. The Inder of the National Industrial Conference Board shown in Table 21 is the best one available on a monthly basis. In terms of 1929 equals 100 this fell to 63.0 in May, 1933 , and has since risen to 79.0 in October, 1935.

The summary of findings of "America's Canacity to Consume," by The Brookings Institution: in reference to distribution of income in 1929 are reported as follows:
"Nearly six million families, or more than twenty one oer cent of the total, had incomes loss than \$1,000.
"About twelve million families, or more than forty two cer cent, had incomes less than $\$ 1500$.
"Nearly twenty million families, or seventy one oer cent, had incomes less than $\$ 2500$.
"Only a little more than two million families, or eight per cent, had incomes in excess of $\$ 5,000$.
"About 600,000 families, or tmenty three per cent, had incomes in excess of $\$ 10,000$ (Source, America's Capacity to Froduce and America's Capacity to Consume, a digest, the Falk Foundation of Pittsburgh, Pa., p. AI).

## TABLE 22

NATIONAL INCOME PAID OUT BY TYPES OF PAYMENT (Millions of dollars

| Item | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total income paid out | 78,632 | 72,932 | 61,704 | 48,362 | 44,940 | 50,189 |
| Total labor income | 51,487 | 47,198 | 39,758 | 30,920 | 29,420 | 33,528 |
| Salaries (selected industries) $1 /$ | 5,664 | 5,548 | 4,606 | 3,387 | 3,048 | 3,250 |
| Wages (selected industries) $\underline{1 /}$ | 17,197 | 14,251 | 10.608 | 7.017 | 7,189 | 8,944 |
| Salaries and wages (all other industries) | 27,690 | 26,409 | 23,461 | 19,417 | 17,591 | 19,046 |
| Work relief wages $\underline{2} /$ |  |  |  |  | 619 | 1,389 |
| Other labor income | 937 | 990 | 1,083 | 1.099 | 973 | 899 |
| Total dividends and interest ${ }^{\text {3/ }}$ | 11,218 | 11,302 | 9,764 | 7,980 | 6,969 | 7,227 |
| Dividends | 5,964 | 5,795 | 4,312 | 2,754 | 2,208 | 2,549 |
| Interest | 5,104 | 5,305 | 5,169 | 4,975 | 4,592 | 4,584 |
| Entrepreneurial withdrawals | 12,503 | 11.666 | 10,086 | 7,992 | 7.306 | 8,052 |
| Net rents and royalties ... | 3,424 | 2,766 | 2,096 | 1,470 | 1,245 | 1,382 |
|  |  | Percentages of 1929 |  |  |  |  |
| Total income paid out | 100 | 92.8 | 78.5 | 61.5 | 57.2 | 03.8 |
| Total labor income | 100 | 91.7 | 77.2 | 60.1 | 57.1 | 65.1 |
| Salaries (selected industries) 1 / | 100 | 98.0 | 81.3 | 59.8 | 53.8 | 57.4 |
| Wages (selected industries) 1 / | 100 | 82.9 | 61.7 | 40.8 | 41.8 | 52.0 |
| Salaries and wages (all other industries) | 100 | 95.4 | 84.7 | 70.1 | 63.5 | 68.8 |
| Work relief wages $\underline{2} /$ |  |  |  |  |  |  |
| Other labor income | 100 | 105.7 | 115.6 | 117.3 | 103.8 | 95.9 |
| Total dividends and interest 3/ | 100 | 100.7 | 87.0 | 71.1 | 62.1 | 64.4 |
| Dividends | 100 | 97.2 | 72.3 | 46.2 | 37.0 | 42.7 |
| Interest | 100 | 103.9 | 101.3 | 97.5 | 90.0 | 89.5 |
| Entrepreneurial withdrawals | 100 | 93.3 | 80.7 | 63.9 | 58.4 | 64.4 |
| Net rents and royalties | 100 | 80.8 | 61.2 | 42.9 | 36.4 | 40.4 |
|  |  |  |  |  |  |  |

1/ Includes mining, manufacturing, construction, steam railroads, Pullman, railway express, and water transportation.

2/ Includes pay rolls and maintenance of Civilian Conservation Corps enrolle日s and pay rolls of Civil Works Administration and Federal Emergency Relief Administration work projects plus administrative pay rolls outside of Washington.

3/Includes also net balance of international slow of property incomes.

## Source: The National Income Paid Out, Department of Commerce, 1935. 9820

## T国王 23

| Year | Iotal Trational． Income | $\frac{\text { Iabor }}{\text { Anount }}$ | $\begin{aligned} & \text { Percent of } \\ & \text { Totnl } \\ & \text { Tot } \end{aligned}$ | Payrolls in Minning，Menu－$\frac{\text { facturing－n Construction }}{\text { Amount }}$Percent of <br>  <br> Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1929 | 78，632ㅢ． | 51，487旦／ | 65.5 | 17，197a／ | 21.9 |
| 1930 | 72，932 | 47，198 | 64.7 | 14，251 | 19.5 |
| 1931 | 61，704 | 39，758 | 54.4 | 10，608 | 17.2 |
| 1932 | 48，362 | 30，920 | 63.9 | 7，017 | 14.5 |
| 1933 | 44，321 | 28，807 | 65.0 | 7，189 | 16.2 |
| 1934 | 48，800 | 32，139 | 55.9 | 8，944 | 18.5 |

Source：Bureau of Foreign and Domestic Comerce．Sce Table 22.
a）Exclusive of emergencr and relief income．
b／＂ㄲoges in selected industries．＂

## NATICNAL INCOME PAID OUT, BY IMDUSTRIAL DIVISIONS (Millions of dollars)

| Item | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| Total income paid out... | 78,632 | 72,932 | 61,704 | 46,362 | 44,940 | 50,189 |
| Agriculture | 6,157 | 5,495 | 4.271 | 3,181! | 2,976 | 3,282 |
| Mining | 2,080 | 1,732 | 1.2131 | 826 | 814 | 1. 542 |
| Electric light, power, and gas | 1,304 | 1.475 | 1.408 | 1.275 | 1,094 | 1.085 |
| Manufacturing | 18.013! | 15,940 | 12,364 | 8,543 | 8,514 | 10,258 |
| Construction | 3,257 | 2.939 | 1.969 | 9481 | 7851 | 874 |
| Transportation | 6,8471 | 6.327 | 5,362! | 4,266 | 3.909! | 4,216 |
| Communication | 914 | 9471 | 894 \| | 801 | 726 | 749 |
| Trade | 10,852! | 10,296 | 9,027 | 7,074 | 6,1321 | 6,691 |
| Finance | 8,334i | 7.469 \| | 6,428 | 5,1301 | 4,274 | 4,454 |
| Government, including work relief |  |  |  |  |  |  |
| wages | 6.8051 | 7,043 | 7.189 | 7,148 | 7.3301 | 8.381 |
| Government, excluding work relief |  |  |  |  |  |  |
| mages........... ..... ......... ...... ..... | 6,805 | 7.0431 | 7,189! | 7,148 | 6,741 | 6,952 |
| Hork relief wages |  |  |  |  | 5191 | 1.389 |
| Service | 9.2731 | 8,767 | 7.6731 | 6,0561 | 5,462 | 6,150 |
| Miscellaneous | 4,798 | 4,502 | 3,9061 | 3,114 | 2,8931 | 3,007 |
|  | Percentages of 1929 |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total income paid out | 100 | 92.8 | 78.5 | 61.5 | 57.21 | 63.8 |
| Agriculture | 1001 | 89.2 | 69.41 | 51.7 | 48.31 | 53.3 |
| Mining | 1001 | 83.2 | 58.31 | 39.71 | 39.1 | 50.1 |
| Electric light, power, and gas | 100 | 113.1 | 108.01 | 97.8 | 83.9 | 83.2 |
| Manufacturing | 1001 | 88.51 | 68.61 | 47.41 | 47.31 | 56.9 |
| Construction | 1001 | 90.21 | 60.51 | 29.11 | 24.1 | 26.8 |
| Transportation | 1001 | 92.41 | 78.31 | 62.31 | 57.11 | 61.6 |
| Communication | 1001 | 103.61 | 97.81 | 87.61 | 79.41 | 81.9 |
| Trade | 1001 | 94.91 | 83.21 | 65.21 | 56.51 | 61.7 |
| Finance | 1001 | 89.61 | 77.11 | 61.61 | 51.31 | 53.4 |
| Government, including work relief |  |  |  |  |  |  |
| Government, excluding work relief |  |  |  |  |  |  |
| Work relief wages ..... | - | - | - | - 1 | - | - 1 |
| Service | 100\| | 94.6 | 82.81 | 65.31 | 58.9 \| | 66.31 |
| Miscellaneous. .... ......... | 1001 | 93.81 | 81.4 | 64.91 | 60.31 | 62.71 |

## Source: See Table 22

CHART 56

$-100-$
-AVERAGE ANNUAL WAGE IN 17 SPECIFIED MANUFACTURING INDUSTRIESTABLE 25

For average weakly earnings - Bureau of \& Machine Shops Industries which were obtained from National Industrial Conference Board's lettors
(*) Based on 9 months' average

|  | $(1929=100)$ |  |  |
| :---: | :---: | :---: | :---: |
|  |  | N. I.C.B. | Deflated |
|  | Per Capita | Cost of Living | Per Capita |
| Tear and Month | Teekly Hage | Index | Hoekly Mage |

1932
January
February
March
April
May
June
July
August
September
October
November
December
19.89
20.01
19.81
18.90
18.69
17.97
17.32
16.93
17.03
17.48
17.08
16.99

| 83.8 | 23.74 |
| :--- | :--- |
| 82.8 | 24.16 |
| 82.3 | 24.07 |
| 81.1 | 23.30 |
| 79.9 | 23.39 |
| 78.7 | 22.83 |
| 77.9 | 22.23 |
| 77.4 | 21.87 |
| 76.6 | 22.23 |
| 75.7 | 23.09 |
| 74.7 | 22.86 |
| 73.4 | 23.15 |

1933

| Jenuary | 16.68 |
| :--- | :--- |
| February | 16.53 |
| March | 15.75 |
| April | 16.32 |
| May | 17.40 |
| June | 17.99 |
| July | 18.04 |
| August | 18.93 |
| September | 18.67 |
| October | 18.81 |
| November | 18.02 |
| December | 18.03 |


| 72.2 | 23.10 |
| :--- | :--- |
| 71.1 | 23.25 |
| 70.2 | 22.44 |
| 69.6 | 23.45 |
| 69.0 | 25.22 |
| 68.9 | 26.11 |
| 68.7 | 27.26 |
| 68.7 | 27.02 |
| 69.1 | 27.38 |
| 68.7 | 26.38 |
| 68.3 | 26.40 |

1934

| January | 18.07 | 68.2 | 26.50 |
| :--- | :--- | :--- | :--- |
| February | 19.08 | 68.3 | 27.94 |
| March | 19.48 | 68.6 | 28.40 |
| April | 19.96 | 69.2 | 28.84 |
| May | 19.81 | 69.8 | 28.38 |
| June | 19.51 | 70.2 | 27.79 |
| July | 18.62 | 70.3 | 26.49 |
| August | 18.89 | 7.1 | 26.57 |
| September | 18.57 | 7.7 | 25.90 |
| October | 18.89 | 72.2 | 26.16 |
| November | 18.86 | 72.4 | 26.05 |
| December | 19.73 | 72.6 | 27.18 |

1935

| January | 19.98 | 72.7 | 27.48 |
| :--- | :--- | :--- | :--- |
| February | 20.93 | 73.3 | 28.55 |
| March | 21.09 | 73.8 | 28.58 |
| April | 21.17 | 74.7 | 28.34 |
| May | 20.78 | 75.7 | 27.45 |
| June | 20.54 | 76.0 | 27.03 |
| July | 20.12 | 76.6 | 26.27 |
| August | 20.85 | 77.7 | 26.83 |
| September | 21.14 | 78.4 | 26.96 |
| October | 21.64 | 79.0 | 27.39 |

Note: Per Capita Feekly Wages are not Comparable from One Month to the Other.
9820 a/Bureau of Labor Statistics, Trend of Employment

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AVELAG ..EERTY garNINGS lit SUMDRY it. R. A. INDUSTRIES
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Inतustry
June, 1933 June, 1934 nct.,1934 cet., 1935

| Agricultural Imolements | $\$ 16.99$ | \$19.85 | \$21.75 | \$24.00 |
| :---: | :---: | :---: | :---: | :---: |
| Aluminum lianufactures | 17.64 | 18.74 | 19.05 | 22.28 |
| Automobiles | 23.05 | $2 ? .54$ | 21.94 | 27.93 |
| Baking | 21.17 | 21.89 | 21.37 | 22.10 |
| Bolts, Muts, Tachers and Tivets | 18.17 | 19.61 | 15.41 | 22.38 |
| Brick, Tile and Terra Cotta | 12.00 | 14.70 | 14.64 | 17.50 |
| Brass, Bronre, and Copmer Froducts | 19.04 | 20.74 | 19.59 | 24.22 |
| Boots and Shoes | 15.68 | 17.20 | 15.48 | 17.13 |
| Cans (tin) and other tinwnre | 19.97 | 19.96 | 18.36 | 21.08 |
| Confectionery | 12.46 | 14.95 | 16.14 | 16.77 |
| Canning and Preserving | 11.45 | 11.90 | 12.23 | 75.61 |
| Caroets and uos | 17.55 | 19.35 | 16.72 | 19.44 |
| Cast Iron Pipe | 12.85 | [4.41 | 14.27 | 15.49 |
| Chemicals | 23.86 | 24.01 | 24.03 | 25.23 |
| Chering and Smoking Tobacco, Snuff | 13.43 | 13.70 | 13.26 | 14.94 |
| Corsets and Allied Products | 14.37 | 14.84 | 15.43 | 15.19 |
| Cotton Goods | 11.11 | 11.17 | 13.21 | 15.56 |
| Dlectrical Machinery, Aoparatus and Supplies | 20.70 | 21. 1 | 21.21 | 23.85 |
| Fertiliners | 12.29 | 12.89 | 12.46 | 12.95 |
| Forgings, Iron and Steel | 18.44 | 21.45 | 18.35 | $2 \% .59$ |
| Furniture Manuircturing | 13.46 | 15.4. | 16.51 | 19.35 |
| Glass | 18.97 | 18. 42 | 18.83 | 21.86 |
| Iron and Steel | 18.33 | 25.86 | 16.30 | 24.15 |
| Jewelry | 17.55 | 18.18 | 20.09 | 22.67 |
| Ynit Goods | 12.89 | 15.29 | 16.64 | 17.39 |
| Leather | 19.92 | $2 n .76$ | 20.18 | 22.00 |
| Iocomotive | 18.82 | 22.09 | 21.91 | 23.18 |
| Lumber: Sammills | 12.07 | 14.62 | 14.74 | 18.68 |
| Lumber: "illmori | 14.36 | 15.19 | 16.07 | 19.52 |
| Mechine Tools | 19.87 | 23.59 | 21.83 | 27.12 |
| Marble, Granite, Slote and Other Products | 18.81 | 21. 79 | 20.32 | 23.13 |
| Fen's Clothing | 12.72 | 15.73 | 16.90 | 18.56 |
| Paints and Vnrnishes | 22.59 | 22.13 | 21.55 | 24.16 |
| Paner Boxes | 17.59 | 18.78 | 3.8 .19 | 21.19 |
| Paper and Pulo | 18.64 | 18.38 | 19.61 | 21.71 |
| Petroleum Refining | 27.57 | 26.43 | 27.18 | 28.32 |
| Printing and Fublishing: 300: and Job | 25.00 | 26.06 | 26.29 | 27.35 |
| Printing and Publishing: Newspapers and Periodicals | 31.00 | 32.49 | 32.97 | 33.41 |
| Pottery | 15.33 | 15.97 | 17.29 | 20.87 |

# AVERAGE TEMY EADINGS II SNECTI IN. R. A. IMUSTRTM (continued) 

Inaustry
June, 1933 Tune, 1934 Oct.1934 Oct.,1935

| Reyon and Allied Products | 17.05 | \$19.26 | \$18.79 | \$19.56 |
| :---: | :---: | :---: | :---: | :---: |
| Rubber Goods, other than Boots |  |  |  |  |
| and Shoes and Tires and Tubes | 18.26 | 18.49 | 18.08 | 21.00 |
| Rubber Tires and Inner Tuves | 24.28 | 23.48 | 22.76 | 26.70 |
| Shipbuilding | 20.09 | 22.71 | 23.07 | 25.58 |
| Shirts and Collars | 16. 39 | 12.76 | 13.24 | 13.32 |
| Silk and Rayon | 12.75 | 14.50 | 15.47 | 16.09 |
| Silverware and Platedmare | 17.80 | 19.80 | 20.68 | 23.47 |
| Soap | 21.47 | 21.23 | 21.83 | 23.34 |
| Structural and Ornamental. |  |  |  |  |
| Vetal -or': | 15.24 | 20.23 | 19.92 | 21.80 |
| Textile Hachinery and Prets | 20.95 | 20.90 | 20.37 | 23.76 |
| *oolen Textiles | 16.85 | 16.77 | 15.59 | 18.48 |
| Wram's Clothing | 14.26 | 16.24 | 19.52 | 19.66 |
| NON-I ANUFACTURITG |  |  |  |  |
| Banks, Brokerase and Real Estote | 32.97 | 31.94 |  |  |
| Bituminous Coel | 12.45 | 18.54 | 18.80 | 21.19 |
| Dyeins and Cleanins | 17.12 | 18.39 | 18.17 | 18.60 |
| Hotels (Cash Pavments On7v) | 12.41 | 13.22 | 13.43 | 13.59 |
| Jaundries | 74.70 | 15.30 | 14.89 | 15.56 |
| Detail Trade | 18.97 | 20.03 | 20.41 | 20.75 |
| Tholesale Trade | 25.60 | 26.38 | 26.49 | 27.07 |

Source: Bureau of Jabor Statistics (Trend of Emoloyment)



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    58,000 1.6
    44,700 14
    10,000 8
    3.,7:5 6
    over 952,950
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* Sact ri ure is conficential.

Sources: Genersl Iotors )
United States Steel )- - Stmcard Corporation Zecoris General alectric $\quad$ Betalehem Steol $\quad$ Records
Botalehem Steol )
Ford - roush estimate
Intermationel Harvester - Stimate in "Iortune"
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Staniape Oil of $\mathrm{I}^{r}$ er Jerser
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Amber of States comiled Irom Standard Corporation Recoris (Stinduro Statistice Co.).

The large corporetion is a comativelur recent menomenn. The followin trblo ghon the larmert manurcturing fims as of verious dates from luon to 2929 :

## INCZASE IA SIEBCR CONOENE

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 but also by ner yers anc ocomisibinas, perton?on since the orld Tar. The follo: ine dota on me"ers we then fron Recent Jomomic Jhones, I, 186.


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| :---: | :---: | :---: | :---: |
| 38 | En | 235 | $43 \%$ |
| $17 \%$ | 47.1 | 459 | 760 |
| 89 | 573 | 20.3 | 437 |
| 67 | Sid | 135 | 307 |
| 67 | 218 | 160 | 311 |
| 95 | 80\% | 300 | 363 |
| 1.2 | 5 | 342 | 554 |
| 139 | 537 | 333 | 856 |
| 207 | 673 | 397 | 872 |
| $\because$ | 637 | 578 | 1038 |

 than the earminss of smell coronations. ou ol preents orofits of Gencral incustrisl corporatiors from Stojisto on Incoms, comprisins the folloning eromps:

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The next colum shows the net income of 65 industrial comorations, to which is mice cinnees in net worth of the Pore i..otor Compan (the only aveilable incicction of its proits) in the thire colum. This gives
approximately, profita of 65 d lare cumpries (column 4), wich may be
 corocation. These 3.58 comonies emes 41.4 of the noofits of the entire 900 in 1905 end 47.7 in ig:s - a?most as much as all the others nut to eetreer.

A similer comparisoa is worket out usine nofits of $16=$ industrial corvorations combiled br the Federel Reserve Bank of iver York, to wich the chences in net worth of the Foud iotor Compan heve bean added. This froups hec l' of the profits of all seneral industrigl comovations in 193 nc 27 o in 1325.

Althoun the cibore tranas are vary clear-cut, the matios mar not be cuite correci, becanse the 653 comonations mar represent certain inaustrial mouns more heovily then otners, ard because tex returns may not be identical "ith oublished income ste.temonts.

The same trene $i z$ shom $b$. comprison of asset items. Taule 38 orecents a conv, fison of the total aceets of $17 \%$ industrial corzorations Witu total nswer of al. aneral irduetriol coroorations filing balence sheets witn the Drarean of Intemol Zevenue. It also shors data on the cem aseetr and"orking cejitel. of these 410 industrial conorations com-


As mentiont before, direct etotistice on sinell firms are very ferf; ran those the are available jo not ander to thro: an limit on IV. R.A. areutims.
'hot is a cmall firm? Is the mumer of emolorees a satisfactor inder? tho mancrec employees vorl peuresent a verr small ravon establiciment, here tiae arerese ecteblienempert emmored 1,348 in 1929. But in the כ"int anc rernish incuetry orn in of the sstaulisments had five mmloress or less, and there ere no ertablichments ith over loo emplorees. Table 34 fions sone iren of the estrope variations existins, and the difficulty of creving divizirg lime vet, een snell and lerse.

Classifiction of commercial follures bre sige of liability mrored ucoles. Tho vubliched ficures include onlo those wer metitions in bourmanter ere filed anc co not even hint at the multitude of small firms thet :er liouidated without, loss to crecitors in the holoceust
 and in an event the size of liabilitr to creditors mar be a poor measu:e ní size.

Are hieher : :ases a burden on cha 11 fime beciusc they nomelly nay Ioner rates than lare? Table $3 j$ orasents 103 . dito for a number of incustries in wich the smallen Airms nald ont in reses a smaller proportion of velue adided br manufacture than the larve, and Table 37 presents
 averace montat ases in 1930 for mone induries in thicn the smatler
 monthl" e es lor come indurtri s nere tha werse vas true.


| Year | 1927 | $\begin{aligned} & 1928 \\ & \text { Gene } \end{aligned}$ | $1929$ <br> Incustr | $\begin{gathered} 1930 \\ \text { Coryora } \end{gathered}$ | $5\left(\begin{array}{l} 1937 \\ \hline \end{array}\right.$ | 1932 | 1933 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Assets | 102,448 | 104,289 | 109,442 | 105.970 | 96,562 | 85,703 | 86,254 |
| Current Assets | 43,150 | 45,259 | 46,007 | 41,432 | 35,061 | 31,415 | 31,436 |
| Cosis and Equivalent | 8, 160 | 8,702 | 8,453 | 8,176 | 7,254 | 7.311 | 7,093 |
| Inventory | 18,736 | 18, 898 | 19,680 | 17,095 | 13,804 | 11,362 | 12,578 |
| Curcent Liavilities | 14,474 | 15,200 | 15,396 | 14,121 | 11,917 | 10,572 | 10,785 |
| Norising Caoital | 28,676 | 30,059 | 30,611 | 27,311 | 23,144 | 20,843 | 20,651 |
| 418 Industrial Corvorations (**) |  |  |  |  |  |  |  |
| Total Assets | 27.908 | 29,778 | 32,218 | 32,261 | 30,520 | 28,267 | 27,837 |
| Current Assets | 10,581 | 11,679 | 12.449 | 11,563 | 10,118 | ¢, 523 | 9,030 |
| Sash one Envivalent | 3,078 | 3,731 | 3,613 | 3,608 | 3,544 | 3,326 | 3,160 |
| Inventory - | 5,033 | 5,219 | 5,834 | 5,345 | 4,475 | 3,814 | 4,193 |
| Surrent Liabilities | 2,113 | 2,387 | 2,589 | $2,051$ | 1,537 | 1,328 | 1,550 |
| Vorling Covital | 8,464 | 9,292 | 2,860 | 9,512 | 8,581 | 7,495 | 7,480 |
| Assets of 418 Incustrial Coryorations as Zer Cent of Asscts of General Incustrial Cororations |  |  |  |  |  |  |  |
| Total Assets | 27.3 | 28.6 | 29.4 | 30.4 | 31.6 | 31.9 | 32.3 |
| Cash cunc Equivalent | 37.7 | 42.6 | $42.8$ | $44.1$ | $48.8$ | 5.5 | 44.6 |
| Worising Caoital | 29.5 | 30.9 | 32.2 | 34.8 | 37.1 | 36.0 | 6.2 |
| (*) Source: Statistics of Incone, U. S. Treasury, Jureau of Internal Revenue, for ive years. Data is for all coroorations excluaing transoortation and other vubl ties, Service anc Fincince. <br> (**) Source: 1934 Standard Earnings Sulletin, Stancaic Corooration Records, Julv 13 page 2. |  |  |  |  |  |  |  |
| IJE-2 2/25/36 |  |  |  |  |  |  |  |

ASSEIS OF INDUSIRTAL CORPORATIONS
(Continued)
(millions of dollars)
91 Leading Industrial Corporations I/
$1923 \quad 1929 \quad 1933$

| Total Assets | 18,602 | 20,098 | 18,946 | 18,798 |
| :--- | ---: | ---: | ---: | ---: |
| Total Current Assets | 6,883 | 7,525 | 5,723 | 5,851 |
| Cash \& Equivalent | 2,333 | 2,363 | 2,411 | 2,302 |
| Inventory | 3,038 | 3,470 | 2,283 | 2,543 |
| Working Capital | 5,431 | 5,941 | 4,776 | 4,782 |

Assets of Above as Der Cent of Assets of All General Industrial Corporations

| Total Assets | 17.8 | 18.3 | 21.4 | 21.8 |
| :--- | :--- | :--- | :--- | :--- |
| Total Current Assets | 15.2 | 16.3 | 18.2 | 16.6 |
| Cash \& Equivalent | 26.6 | 28.0 | 33.0 | 32.4 |
| Inventory | 16.1 | 17.6 | 20.1 | 20.2 |
| Morking Capital | 18.0 | 19.4 | 22.9 | 23.1 |

I/ The largest one or tro companies in each principal industry group, as classified by Standard Statistics. See "Composite of Financial Statements", Aug. 16, 1935, Standard Earnings Bulietin, July, 1934. Thus in Steel group U. S. Steel and Eethlehom were included; in Electrical Equipment, General Electric and Westinghouse, and so on.
PERCENTAGE OF TOTAL ESTABLITHILENTS AND PERCENTAGE OF TOTAL ERIPLOYNENT IN VARIOUS SIZE GROUPS (NUMBER OF EMPLOYEES)

| Paint and Varnish |  |  | 0-5 | 6-20 | 21-50 | 51-100 | 101-500 | $\begin{aligned} & 500+ \\ & \text { and over } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 24 | a | 43.2 | 32.5 | 15.5 | 10.8 |  |  |
|  |  | b | 4.5 | 15.1 | 20.8 | 59.6 |  |  |
| Millinery | 27 | a | 19.2 | 39.2 | 28.5 | 13.1 |  |  |
|  |  | $\bar{B}$ | 2.3 | 17.5 | 34.2 | 4.6 |  |  |
| Store \& Office | 44 | a | 23.4 | 34.5 | 19.2 | 12.1 | 10.8 |  |
| Furniture |  | b | 1.6 | 9.3 | 14.4 | 19.9 | 54.8 |  |
| Men's Clothing | 54 | a | 32.6 | 26.2 | 18.8 | 10.6 | 11.8 |  |
| Other Than Cotton |  | b | 1.3 | 5.5 | 11.5 | 14.3 | 67.3 |  |
| Non-Ferrous Metal | 55 | a | 38.2 | 35.5 | 11.5 | 6.3 | 8.4 |  |
| Alloys. |  | b | 1.9 | 7.1 | 6.7 | 8.1 | 76.3 |  |
| Agricult. Implements | 66 | a | 27.7 | 32.9 | 15.3 | 11.2 | 12.9 |  |
|  |  | b | 1.2 | 4.2 | 7.9 | 12.1 | 73.6 |  |
| Work Clothing | 99 | a | 9.9 | 17.6 | 21.3 | 21.7 | 29.6 |  |
|  |  | 5 | . 3 | 2.3 | 7.8 | 15.2 | 74.4 |  |
| Electrical Nachinery | 108 | a | 26.6 | 26.9 | 16.9 | 10.5 | 14.7 | 4.4 |
|  |  | b | .7 | 2.8 | 5.2 | 7.0 | 29.7 | 54.6 |
| Boots and Shoes | 168 | a | 7.5 | 14.7 | 19.0 | 15.6 | 43.2 |  |
|  |  | b | . 1 | 1.1 | 3.7 | 6.8 | 88.3 |  |
| Motor VehicleBodies and Parts | 208 | a | 26.1 | 34.1 | 13.4 | 8.4 | 10.6 | 7.5 |
|  |  | b | .4 | 1.9 | 2.2 | 2.8 | 12.0 | 80.8 |
| Iron and Steel | 620 | a | . 4 | 5.4 | 11.4 | 15.2 | 39.7 | 7.9 |
|  |  | b |  | .1 | .6 | 1.8 | 15.4 | 82.1 |
| Motor Vehicle Mfg. | 802 | a | 9. | 17.2 | 17.2 | 4.1 | 20.5 | 5. |
|  |  | b |  | .3 | .7 | . 4 | 5.6 | 93.0 |

> a - \% of total establishments
b - \% of total employees
Note: - The last right hand figure in each horizontal line inoludes total $\%$ for

| Year | Tota? <br> Muber <br> Re:orted | Trumber <br> Uncer $35,000$ | İunber <br> Over $\$ 5,000$ | Fraber Uncer 425,000 | Thomer Over 225,000 | IFunber <br> Uncer 2700,000 | number <br> Over <br> \$300,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1928 | 23,642 | 10,079 | 13,763 | 15, 627 | 3,555 | $23,3.53$ | 589 |
| 1925 | 22,009 | 9,439 | 13,470 | 18,593 | 3,211 | 22,155 | 74 |
| 1030 | 25,355 | 10,133 | 15,202 | 27,578 | 4,777 | 25.390 | 057 |
| 1931 | 28,265 | 20,736 | 27,519 | 23,116 | 5,267 | 27,235 | 1,050 |
| 1932 | 31,822 | 11,10¢2 | 20, 66 | 25,433 | 6,335 | 20.137 | 1, Eas |
| 1.33 | 20,307 | 7,346 | 12,963 | 16,411 | 3, 506 | 10, 323 | 373 |
| 1934 | 12,185 | 4,652 | 7.533 | 10,087 | 2,026 | 21,573 | 612 |

[^5]T, BLE 36
Ratio of Taces to Value icded by ilanuroctire $\frac{\text { (Fercent }}{1933}$

\&と6t - Simina
La included l establishment ovei 100 emplorees. Statistics Section.
Ratio of Tiages to Vrlue
$\frac{\text { sdded bur anvecture }}{\frac{\text { Percent }}{1933}}$


[^6]TA HE 35.

> Average lonthly Jares Faic. 37
> Industries - 2533.


SUULicie - 2933 Census of iffers.
Incluaes 1 estaulishnent hoving over luo emplo:ees.

-115-
MADID 30.

$\frac{\text { Size of \#stentishrent IOT }}{\text { Selecteck Incuctines- IS33 }}$
SOMACD: - 123う consus on irmanotimers.
 1533 censis of inmufactores.
Incustry
Aricritural Irrieneats $\$ 65 \cdot 55$
Too er Gots
O. $1 c_{1}$
1.2
$2+26$


Fenains recovery in production, consicerable reemployment could take nlace be emploring "... more men to the existing work b: reducing the woris of each man's week."

Table 40 presents an estimate, based on certain assumptions, of the remplorment effectod bryork-sharine. Column 4 of the tabie presents an estimate of man-hours in manuracturing. There vere sone 398 million used per week in 1929, and 130 million per week in liarch, 1933. From mid-1933 to September, 1935, the number used averaged about 236 million, ransin: from 207 to 262 million. Just before the J.2.A. went into effect, industry operated on a 42.5 hour weel. If this morl week had continued, and if tise number of man-hours had been as in the fourth column, then the fifth column shovs the number of men that would have been employed. This shows very little recovery. Not until 1935 does the number advance much nove the panic levels of earl:- 1933 and hold the sain. In serptomber, 2935 , vith a demund for 232 million man-inours, a 42.5 hour av-r-A-' $\cdot \cdots$ eek would have emplored onl:- $5,164,000$ compared with 7,004,00n actunll:̈ at work. The $\dot{a} i=f e r e n c e, ~ 840,000$, represents the number at moms who might have been unempla*ed were it not for work-sharing. The hypothetical reemploment due to the work-sharing prozram ranges up to .2,250,000.

This calculation is suepestive and arresting, but it cannot be stranzer than the basis on which it was mace, via, that other factors would have been as they were. Sut no one lnows whether they would or not. Would production have deen greater or less, and demand for the services of labol have been greater or less without the work-sinaring program? If grenter, roula it heve been great enough to take up to a million off the lists of unemployed?

Althougn these remoter implications are not directly indicated by the statistics, the imnediate fact remains that the work week was shortene substantially. Table 41 shows average hours worked per week in 17 important manufacturing industries. It will be noticed that in some industries hours droped sharply in 1931 and 1932. These industries are chiefly durable soocs industries, where volume fell unprecedentedlu low and work-sharin, was voluntarily adopted. The problem here was, not to have a cut in hours, but merely to aboid a return to the pre-depression wori--week. In others, chiefl: consumers' and non-durable goods industries, hours vere not far below 1999 levels. Examples are boots and shoes, cotton textiles, hosiery, meat packing and paper and pulp. Hours in these industries dropped sharpl: when the codes were instituter in the summer and fall of 1933.

In general, industries do not succeed in operating at the code maximar. Tinus the textile industries, which had a 40 hour maximum work week, rarel- succeeded in averasing more than 36 hours' work for their emplouees. The averages are pulled down bur individual firms and emplorees whose operations fall far short of the code maxima. The extent of this diskarity in working times, with and without the codes is illustrated $b_{i}$ frequence distributions of working time for the Lumber and Lenther Industries (1932), Sily and Fa:*on (19.33-34), and Woolen and Worsted (1932-33(34) Tables 42, 45, 44; also for the Coton Textile Industr, (1933-34) in the section on hourly wares. (Table ?2) 9820

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|  |  |  |


| I-Mostrial |  | sictuol. | T.taz \%) | routaticnl |  |
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| Propoctio: |  | Ewnoment | non | Forloy ont | Reemiloment |
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| 1935100 |  | (0901s) | (noris) | med bofe | - $\mathrm{B}^{\text {A. }}$ |
|  |  |  |  | $\therefore$ ¢ his. | ( $n$ nn 1s) |


ources: Empoyment and Rours - U.S. Bwe uri Lroor Statistics
Incustriol production - Federal Reserve Zoッと
a) Employmeat is average weekly hours
b) And if all other f-ctors remain the semo, mocuction eficiency, and so on
c) Actual emoloment less hypothetical emolor pht unde: 42. 3 hours nee'.
AVERAGI HOURS NORKED PER HEER IN 17 SPECIFTMD MANTFACTURING INBUSTRIES

HOURLY EARNINGS AND HOURS PER WEEK in the
LUMBER \& LEATHER INDUSTRIES - 1932

DISTRIBUTION OF AVERAGE HOURIY EAR AND RAYON INWUSTRI-

-roclear ard yorsten goods-



CHART 57


Stuble, steacy oprotion of the ation's industrial blant,
 a secondary but nevertipless inontmen objective of certain iJ. R.A. codes. The problen is tireefold.
(1) Croclicel iriegularity or procuction associnted with corresponeing irregulenity in demanc; the problen of capecity operation.
(2) Coclical impegularity of production due to mal-djustments of supply to demand over a perioc of a jerr or mown production in peak years in excess of demand, production in derression years below demand.
(5) Seasonel irresularity of provinction na empoyment.

Seasonal stroility generally to be attainec bu building up inventories in the season of lonest consurer cienand, and depleting inventories in the season of reale consumer's demond, so far as mracticable.

Some industries furnish very regular employment throughout the year; others are very protic. A chert is presented showing typical seasonal. movernent of employment in varicus incustries arranged in order from least stable to most strble. Anng the irregula industries are women's clothing, cement, and automobiles; among tho most re fular are betroleum refining, baking, foundries, blast fumaces, na nerspapers and periodicals.

Nonthly empoyment incices for 193?-1935 are shom for automobiles and cenpnt, and ronthly production indices for boots and shoes, 1923-1924 and 1933-1934.

In 195 - 1906 tine autombile indastry ade a determined attemot to arrow the seasonal suines of the employnt curve by moving formare the introduction of ner models to Oovenirr.

CHART 58
SEASONAL INSTABILITY OF EMPLOYMENT IN VARIOUS MANUFACTURING INDUSTRIES





SOURCE FEDERAL RESERVE BULLETIN, JNE, 1934

 ( 100 WOOLEN AND WORSTED GOODS


EMPLOYMENT IN TWO SEASONAL INDUSTRIES

INDEX
(923-1925:100)
1401
120


CHART 59
AUTOMOBILES

INDEX
(1923-1925-100)
140

120

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Sources Jurean of the Cenezs

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|  |  |  |  |  | $\begin{gathered} \text { Pon actin } \\ \text { wouth } \\ \text { Foum } \end{gathered}$ | $\begin{gathered} \text { Pn Cont } \\ \text { inimm? } \\ \text { Yonth } \\ \text { is o } \\ \because \text { arimum } \\ \text { Conth } \\ \hline \end{gathered}$ |
|  | Priar | P：i： | pecont | ロージ | Pairs | Fer C－nt |
| 1523 | 6，775，217 | 10，054， 40.1 | $\cdots$ | 3，831， 103 | 11， 355,950 | 53.2 |
| 1534 | 5，046，67n | 3，250， 0 \％ | 27. | －，江r，150 | 17，107，？40 | 62.2 |
| 1825 | 6，107，205 | 3，471， 35 | $\cdots$ | 7，21， 31 | $20,77-556$ | 67.4 |
| 1.820 | E，80n， $72 n$ | ，7j，10n | －－ | ， 19 | 17，207， 05 | 63.7 |
| 1527 | 3，527，sn？ | 9, | ＇ | ， | 12，2en，005 | 53.5 |
| 1928 |  | 2，21－207 | － | 2，Bra，5u | $16,123,674$ | 51.9 |
| 1529 | 6，atl，167 | 9，50，109 | －0． | 7,150 | $1 ., 212,803$ | 60.2 |
| 1050 | 4，750，6：8 | 7,57 | $\because \cdot$ | ， 01.310 | 17，353，52\％ | 42.5 |
| 1021 | 5，106，802 | 2，24， 2.24 | 1． | \％， 85.763 | L．，Ine， 4 | 20.5 |
| 1932 | 5，155，431 | 6， 20.5 | － | － $5,0.5$ | I．，\％ 170 | 40.0 |
| 1933 | 5，760，501 | 9， $2 x, 16{ }^{\text {a }}$ | U． 1 | ， 10.12 | $14,5 \sim 1,571$ | 40.3 |
| 1684 | ，，62， 503 | －， $\mathrm{c}_{2}, 0$ | － | ， 7 \％ | $\underline{1}, n-\bar{c}, 410$ | C． 9 |



## IV. THE CSJLCTVEC RAIS COMPETIIC.

That is feir cometition? The truf oretices of the coces shon Whe.t some, st lequt, in each coded industrer consiatered fair and unfair, as regerus: grocuction quotns, mint an: mncnine hours, adiitional oroductive ceracity invorow control, open nrices nd bid filine terms, and so fonth.

A clascificotion anc sun mre o trade practice provisions rill be found in Joiln !.fteri:ls io. JS, "Conteat of iIIFA, Administrative Lpeislation, Pait C."

## OFFICE OF THE NATIONAL RECOVERY ADMINISTRATION THE DIVISION OF REVIEW

## THE WORK OF THE DIVISION OF REVIEW

Executive Order No. 7075, dated June 15, 19.35, established the Division of Review of the National Recovery Administration. The pertinent part of the Executive Order reads thus:


#### Abstract

The Division of Review shall assemble, analyze, and report upon the statistical information and records of experience of the operations of the various trades and industries heretofore subject to codes of fair competition, shall study the effects of such codes upon trade, industrial and labor conditions in general, and other related matters, shall make available for the protection and promotion of the public interest an adequate review of the effects of the Administration of Title I of the National Industrial Recovery Act, and the principles and policies put into effect thereunder, and shall other,sise aid the President in carrying out his functions under the said Title. I hereb; appoint Leon C. Marshall. Director of the Division of Review.


The study sections set up in the Division of Review covered these areas: industry studies, foreign trade studies, labor studies, trade practice studjes, statistical studies, iegai studies, administration studies, miscellaneous studies, and the writing of code histories. The materials which pere produced by these sections are indicated below.

Except for the Code Histories, all items mentioned below are scheduled to be in mimeographed form by April 1, 1936.

## THE CODE HISTORIES

The Code ristories are documented accounts of the formation and administration of the codes. They contain the definjtion of the industry and the principal products thereof; the classes of members in the industry; the history of code forwation including an account of the sponsoring organizaticns, the conferences, negotiations and hearings phich were held, and the aotivities in connection with obtaining approval of the code; the history of the administration of the code, covering the organization and operation of the code authoritj. the difficulties encountered in administration, the extent of compliance or non-compliance. and the general success or lack of success of the code, and an analysis of the operation of code provisions dealing with wages, hours, trade practices, and other provisions. These and other matters are canvassed not only in teras or the materials to he found in the fjles, out also in terms of the experiences of the deputies and others concerned with code formation and administration.

The Code Histories, (including histories of certain NRA units or agencies) are not mimeographed. They are to be turned over to the Department of Commerce in typewritten form. All told, approximately eight hundred and fifty (850) histories will be completed. This number includes all of the approved codes and some of the unapproved codes. (In Work Materials No 18, Contents of Code Histries, will be found the outline which governed the preparation of $\operatorname{Code~Histories.)~}$
(In the case of all approved codes and also in the case of some codes not carried to final approval, there are in NRA files further materials on industries. Particularly worthy of mention are the Volumes I, II and III which constitute the material officially submitted to the fresident in support of the recommendation for approval of each code. These volumes 9768-1
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set forth the origination of the code, the sponsoring group, the evidence advanced to support the proposal, the report of the Division of Research and Planning on the industry, the recomendations of the varlous Advisory Boards, certain types of official correspondence, the transcript of the formal hearing, and other pertinent matter. There is also much offlcial information relating to amendments, interpretations, exemptions, and other rulings. The materials mentioned in this paragraph were of course not a part of the work of the Division of Review.)

## THE FORK MATERIALS SERIES

In the work of the Division of Review a considerable number of studies and compilations of data (other than those noted below in the Evidence Studies Series and the Statistical Material Series) have been made. These are listed below, grouped according to the cbaracter of the material. (In Work Materials Ne. 17, Tentative outlines and Sumaries of Studies in Process, these materials are fully described).

## Industry Studies

Automobile Industry, An Economic Survey of
Bituminous Coal Industry under Free Competition and Code Regulation, Economic Survey of
Electrical Manufacturing Industry, The
Fertilizer Industry, The
Fishery Industry and the Fishery Codes
Fishermen and Fishing Craft, Earnings of
Foreign Trade under the National Industrial Recovery Act
Part A - Competitive Position of the United States in International Trade 1927-29 through 1934.

Part B - Section 3 (e) of NIRA and its administration.
Part C - Imports and Importing under NRA Codes.
Part D - Exports and Exporting under NRA Codes.
Forest Products Industries, Foreign Trade Study of the
Iron and Ste日l Industry, The
Knitting Industries, The
Leather and Shoe Industries, The
Lumber and Timber Products Industry, Economic Problems of the
Men's Clothing Industry, The
Millinery Industry, The
Motion Picture Industry, The
Migration of Industry, The: The Shift of Twenty-Five Needle Trades From New York State, 1926 to 1934
National Labor Income by Months, 1929-35
Paper Industry, The
Production, Prices, Employment and Payrolls in Industry, Agriculture and Railway Trans-
portation, January 1923, to date
Retail Trades Study, The
Rubber Industry Study, The
Textile Industry in the United Kingdom, France, Germany, Italy, and Japan
Textile Yarns and Fabrics
Tobacco Industry, The
Wholesale Trades Study, The
Women's Neckwear and Scarf Industry, Financial and Labor Data on
9768--2

Tomen's Apparel Industry, Some Aspects of the

## Trade Practice S*udies

Commodities, Inforaation Concerning: A Study of NRA and Related Experiences in Control Distribution, Manufacturers' Control of: Trade Practice Provisions in Selected NRA Codes Distributive Relations in the Asbestos Industry
Design Piracy: The Probjep and Its Treatment Under NRA Codes
Electrical Mrg. Industry: Price Filing Study
Fertilizer Industry: Price Filing Study
Geographical Price Relatiors Under Coies of Fair Competition. Contrel of
Minimum Price Regulation Under Codes of Fair Competition
Multiple Basing Foint System in the Lime Industry: Operation of the
Price Control in the Coffee Industry
Price Filing Under NRA Codes
Production Control in the Ice Industry
Production Control, Case Studies in
Resale Price Maintenance Legislation in the United States
Retail Price Cutting, Restriction of, with special Emphasis on The Drug Industry.
Trade Practice Rules of The Federal Trade Commission (1914-1936): A classification for comparison with Trade Practice Provisions of NRA Codes.

## Labor Studies

Cap and Cloth Hat Industry, Commission Report on Wage Differentials in
Earnings in Selected Manufacturing Industries, by States, 1933-35
Employment, Payrolls, Hours. and Wages in 115 Selected Code Industries 1933-35
Fur Manufacturing, Commission Report on Fages and Hours in
Hours and Wages in American Industry
Labor Program Under the National Industrial Recovery Act, The
Part A. Introduction
Part B. Control of Hours and Reemployment
Part C. Control of 唯ages
Par; D. Control of Other Conditions of Employment
Part E. Section 7(a) of the Recovery Act
Materials in the Field of Industrial Relations
PRA Census of Employment, June, October, 1933
Puerto Rico Needlework, Homeworkers Survey

Administrative Studies

Administrative and Legal Aspects of Stays, Exemptions and Exceptions, Code Amendments, Conditional orders of Approval
Administrative Interfretations of NRA Codes
Administrative Lais and Procedure under the NIRA
Agreements Under Sections $4(a)$ and $7(b)$ of the NLRA
Approve Codes in Industry Groups, Classification of
Easic Code, the -- (Administrative Order X-6l)
Code Authorities and Their Part in the Administration of the NIRA
Part A. Introduction
Part B. Nature, Composition and Organization of Code Authorities
9768-2.

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    Part C. Activities of the Code Authorities
    Part D Code Authority Finances
    Part E. Summary and Evaluation
Code Compliance Activities of the NRA
Code Making Program of the NRA in the Territories, The
Code Provisions and Related Subiects. Policy Statements Concerning
Content of NIRA Administrative Logislaticn
    Part A. Executive and Administrative Orders
    Parl B. Labor Provisions in the Lodes
    Part C. Trade Practice Provisions in the Cocies
    Part D. Administrative Provisions in the Codes
    Part E. Agresments under Sections 4(a) and 7(b)
    Part F. A Type Case: The Cotton Textile Code
Labels Under NRA. A Study of
Model Code and Model Provisions for Codes, Development of
National Recovery Administration, The: A Review of its Organization and Activities
NRA Insignia
President's Reemployment Agreement, The
President's Reemployment Agreement, Substitutions in Connection with the
Prison Labor Problem under NRA and the Prison Compact, The
Problems of Administration in the Overlapping of Code Definitions of Industries and Trades,
    Multiple Code Coverage, Classifying Individual Members of Industries and Trades
Relationship of NRA to Government Contracts and Contracts Involving the Use of Goverament
    Funds
Relationship of NRA with States and Municipalities
Sheltered Torkshops Under NRA
Uncodified Industries: A Study of Factors Limiting the Code Making Program
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## Legal Studies

## Anti-Trust Laws and Unfair Competition

Collective Bargaining Agreements, the Right of Individual Employees to Enforce
Commerce Clause. Federal Regulation of the Employer-Employee Relationship Under the
Delegation of Power, Certain Phases of the Principle of, with Reference to Federal Industrial
Regulatory Legislation
Enforcement, Extra-Judicial Methods of
Federal Regulation through the Joint Employment of the Pomer of Taxation and the Spending Power
Government Contract Provisions as a Means of Establishing Proper Economic Standards, Legal Memorandum on Possibility of
Industrial Relations in Australia, Regulation of
Intrastate Activities Which so Affect Interstate Comprce as te Bring them Under the Commerce Clause, Cases on
Legislative Possibilities of the State Constitutions
Post Office and Post Road Power -- Can it be Used as a Means of Federal Industrial Regilation?
State Recovery Lagislation in Aid $\partial f$ Federal Recovery Legislation History and Analysis
Tariff Rates to Secure Proper Standards of Rages and Hours, the Possibility of Variation in
Trade Practices and the Anti-Trust Laws
Treaty Making Power of the United States
Tar fower, Can it be Used as a Weans of Federal Regulatior of Child Labor?
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## THE EVIDENCE STUDIES SERIES

The Evidence Studies were originally undertaken to gather material for pending court cases. After the Schechter decision the project was continued in order to assemble data for use in connection with the studies of the Division of Review. The data are particularly concerned with the nature, size and operations of the industry; and with the relation of the industry to interstate commerce. The industries covered by the Evidence Studies account for more than one-half of the total number of workers under codes. The list of those studies follows:

Automobile Manufacturing Industry
Automotive Parts and Equipment Industry
Baking Industry
Boot and Shoe Manufacturing Industry
Bottled Soft Drink Industry
Builders' Supplies Industry
Canning Industry
Chemical Manufacturing Industry
Cigar Manufacturing Industry
Coat and Suit Industry
Construction Industry
Cotton Garment Industry
Dress Manufacturing Industry
Electrical Contracting Industry
Electrical Manufacturing Industry
Fabricated Metal Products Mfg. and Metal Finishing and Metal Coating Industry
Fishery Industry
Furniture Manufacturing Industry
General Contractors Industry
Graphic Arts Industry
Gray Iron Foundry Industry
Hosiery Industry
Infant's and Children's Wear Industry
Iron and Steel Industry

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Leather Industry
Lumber and Timber Products Industry
Mason Contractors Industry
Men's Clothing Industry
Motion Picture Industry
Motor Vehicle Retailing Trade
Needlework Industry of Puerto Rico
Painting and Paperhanging Industry
Photo Engraving Industry
Plumbing Contracting Industry
Retail Lumber Industry
Retail Trade Industry
Retail Tire and Battery Trade Industry
Rubber Manufacturing Industry
Rubber Tire Manufacturing Industry
Shipbuilding Industry
Silk Textile Industry
Structural Clay Products Industry
Throwing Industry
Trucking Industry
Waste Materials Industry
Wholesale and Retail Food Industry
Wholesale Fresh Fruit and Vegetable Indus-
    try
Wool Textile Industry
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THE STATISTICAL MATERIALS SERIES

This series is supplementary to the Evidence Studies Series. The reports include data on establishments, firms, employment, payrolls, wages, hours, production capacities, shipments, sales, consumption, stocks, prices, material costs, failures, exports and imports. They also include notes on the principal qualifications that should be observed in using the data, the technical methods employed, and the applicability of the material to the study of the industries concerned. The following numbers appear in the series:
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Asphalt Shingle and Roofing Industry Business Furniture
Candy Manufacturing Industry
Carpet and Rug Industry
Cement Industry
Cleaning and Dyeing Trade
Coffee Industry
Copper and Brass Mill Products Industry Cotton Textile Industry Electrical Manufacturing Industry

Fertilizer Industry
Funeral Supply Industry
Glass Container Industry
Ice Manufacturing Industry
Knitted Outerwear Industry
Paint, Varnish, and Lacquer, Mfg. Industry Plumbing Fixtures Industry
Fayon and Synthetic Yarn Producing Industry Salt Producing Industry

## THE COVERAGE

The original, and approved, plan of the Division of Review contemplated rosources sufficient (a) to prepare some 1200 histories of codes and NRA units or agencies, (b) to consolidate and index the NRA files containing some $40,000,000$ pieces, (c) to engage in extensive field work, (d) to secure much aid from established statistical agencies of government, ( $\theta$ ) to assemble a considerable number of experts in various fields, (f) to conduct approximately $25 \%$ more studies than are listed above, and (g) to prepare a comprehensive summary report.

Because of reductions made in personnel and in use of outside experts, limitation of access to field work and research agencies, and lack of jurisdiction over files, the projected plan was nevessarily curtailed. The most serious curtailments were the omission of the comprehensive summary report; the drcpping of certain studies and the reduction in the coverage of other studies; and the abandonment of the consolidation and indexing of the files. Fortunately, there is reason to hope that the files may yet be cared for under other quspices.

Notwithstarding these limitations, if the files are ultimately consolidated and indexed the exploration of the NRA materials will have been sufficient to make them accessible and highly useful They constitute the largest and richest single body of information concerning the problems and operations of industry ever assembled in any nation.

L. C. Marshall. Director, Division of Review.

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[^0]:    ＊Figures for 1929 built up from detsited items Estimsion for oiner yasre baret on inder numbere especisily prepared for this purpose．
    † Except for 1929 the sum of the ronsumers ginds and services a itomed daes not exactly cqual the figure given for the total．This is because sdustments bave been made iu the tous which espace be made in the secarste items

[^1]:    ＊Figure for 1929 from Maurice Leven，Amerion＇s Capacuiy to Conoume，D．206．Estimater for other years based on the King－Leven estimates of national incoroe and ou cafital gaine as reported in Sta－ tianice of Incomis．
    $\dagger$ Includes corporste surplus，income of endowed institutions，ad governraental revenue drawn from business enterprises but used in providing services to persons or for napital purposes．

    I locludes depreciation and depletion ellowances，and crude allowancea for bad debta in retail ac－
     dividual incomes．

    Paymente to policyholders by insuranct mombe $1^{\text {mit }}$
    Change iu nutatanding volume of means of payme．

[^2]:    * These figures, which must not be accented as precise neasurenents, aboly only to activity in manufacturing industrics as a mole.

[^3]:    Sotures: Compiled from Census ne in nufacturers.
    a) Comerticut, Nascachucetto, New Halmshire, Jew Yorls, Ponnetvania, Nov Jersey, Roode Island, licine and Vfrrment, nxeluch becouse dnta for 1913 not readily available.
    b/ AJabama, Genrgiz, Lifociacipyi, North Cerolina, Suoth Mam,lina, Teniesser, Virginia. Value adand o manufacture les waces.

[^4]:    MATERIALS RETAILERS, MAR 1935

[^5]:    

[^6]:    Source - CETSJ: O-' MUTFiCTUREZS - 1933.
    La includer I establishment havi:n over 100 emplovees. for 1933
    Source: Calculater by Duvision oi aeview, statistics Scctio ., iron basic bata of census of iaminctarers

