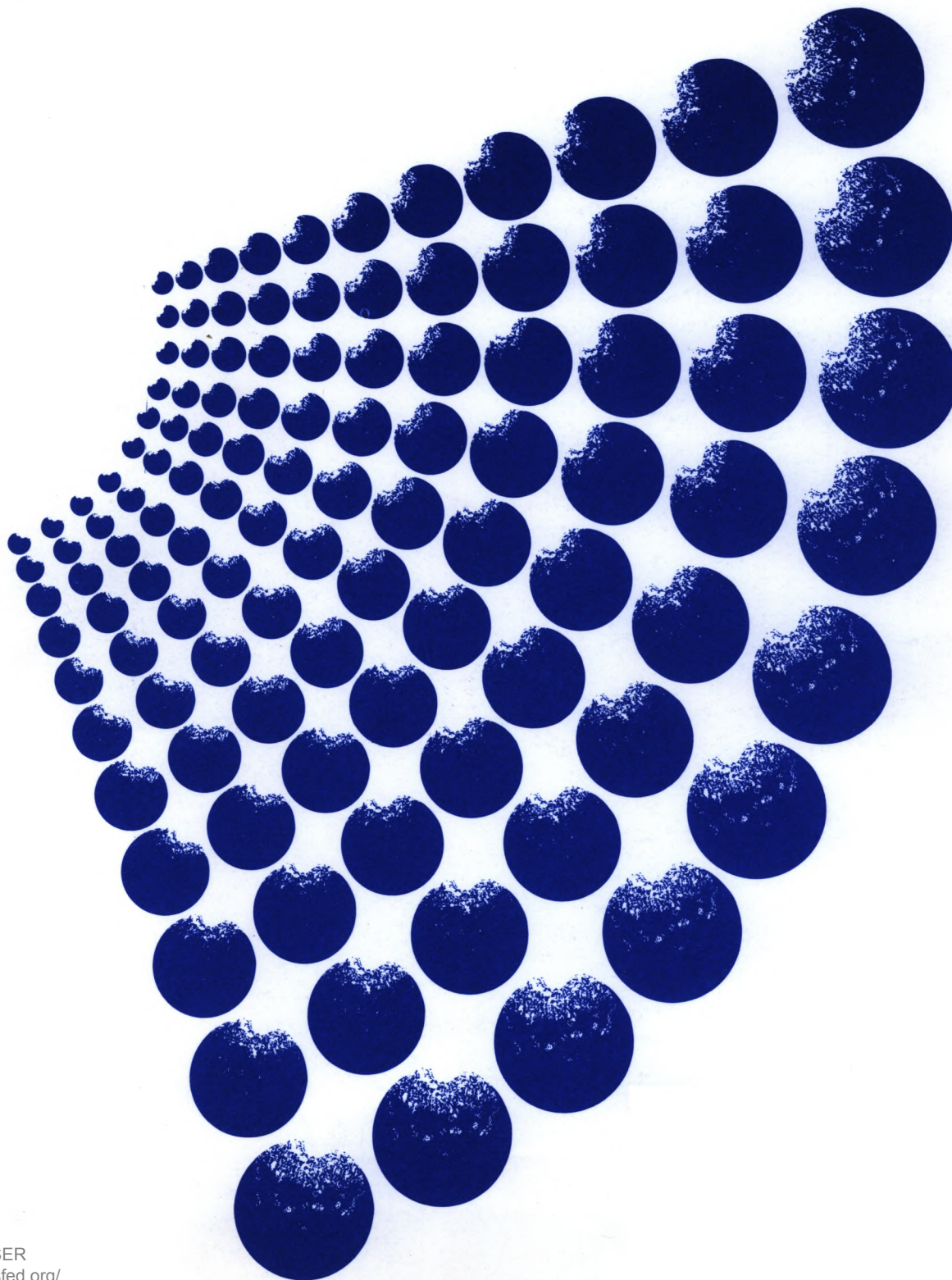


# Productivity Indexes for Selected Industries, 1976 Edition



U.S. Department of Labor  
Bureau of Labor Statistics  
1977

Bulletin 1938



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U.S. Department of Labor  
W. J. Usery, Jr., Secretary  
Bureau of Labor Statistics  
Julius Shiskin, Commissioner  
1977

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## Preface

This bulletin updates industry indexes of output per employee-hour and output per employee for the industries currently included in the U. S. Government's productivity measurement program. The data cover the years 1939 and 1947 to 1975. Indexes are published for the first time for the following industries: retail food stores, franchised new car dealers, grain mill products, and sawmills and planing mills. Articles providing information about these new measures will appear in the Monthly Labor Review.

The selected industries for which output per employee-hour indexes are shown are not necessarily a representative cross-section. They should not be combined, therefore, to obtain an overall measure for the entire U. S. economy or for any sector. Each index is intended to represent only the change in output per employee-hour for the designated industry or combination of industries. However, the Bureau of Labor Statistics does publish indexes of output per hour of all persons and related measures for the private business sector, and the nonfarm business, manufacturing, and nonfinancial corporate sectors. These productivity series show the relationship between gross product originating in these sectors and employment and hours. (The data are presented in the Bureau of Labor Statistics press release, Productivity and Costs (twice quarterly), in the Monthly Labor Review, and in Employment and Earnings.)

The productivity measures in this bulletin describe the relationship between output in real terms and the labor time involved in its production. They show the changes from year to year in the amount of labor time required to produce a unit of output. Although these measures relate output to employment and employee-hours, they do not measure the specific contributions of labor, capital, or any other factor of production. Rather, they reflect the joint effect of a number of interrelated influences, such as changes in technology; capital investment per worker; level of output; utilization of capacity; layout and flow of material; managerial skill, and skills and effort of the work force.

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# Highlights of Trends in Output Per Employee-Hour

## Current Developments

Productivity increased between 1974 and 1975 in more than half of the selected industries presented in this report, in contrast to the situation in 1974, when declines were recorded in a majority of the industries covered. Increases in productivity in 1975 were as great as 10.7 percent for telephone communication services. Other industries showing substantial gains included copper mining (recoverable metal), 8.2 percent; metal cans, 7.8 percent; and motor vehicles, 7.6 percent.

The growth in industry productivity was consistent with the productivity gain in the nonfarm business sector -- 1.8 percent in 1975. The productivity change in 1975 in many industries as well as the nonfarm business sector was greatly influenced by the business cycle, with output registering a decline and employee-hours falling even more, resulting in the productivity gains.

Motor vehicle manufacturing, one of the more important industries covered, recorded a very large increase in productivity in 1975. The increase -- 7.6 percent -- was more than double the industry's long-term rate of productivity advance -- 3.6 percent. In nearly all of the segments of the industry, output was below that of 1975. The production of truck trailers was particularly hard hit in 1975, in part due to an inventory build-up by trailer users in 1974 to avoid the more expensive, anti-skid equipment required for new units in 1975. Overall, the output of the industry declined by 6.9 percent while employee-hours dropped 13.5 percent.

On the other hand, steel manufacturing, another key industry, had the largest productivity decline recorded in the currently published series, with a drop of 11.6 percent. Output declined by a near-record 24.3 percent while employee-hours fell by 14.4 percent. Reduced demand for steel by the automobile industry, (one of the largest users of steel) as well as declines in almost all other steel markets, along with a drawing down of inventories on the part of steel fabricators, contributed to the steep decline in output in this industry.

Productivity gains were recorded in a number of manufacturing industries. The largest of these gains occurred in metal cans where productivity grew by 7.8 percent. Although output in this industry declined by 6.2 percent, in part because of inventory drawdowns by canners, employee-hours dropped 13.0 percent, partially as a result of several plant closings and consolidations. In the footwear industry, productivity advanced 7.4 percent, although both output and employee-hours were below their 1974 levels. While employee-hours in this industry declined substantially, output for the year as a whole was down only moderately due to a surge in the demand for shoes in the second half of 1975.



Other manufacturing industries with significant increases in productivity included bakery products, 6.5 percent; pharmaceuticals, 6.1 percent; cigarettes, 6.0 percent; soft drinks, 5.6 percent; hosiery, 5.5 percent; and sawmills and grain mill products, 5.1 percent.

Declines in productivity were particularly concentrated among the durable goods manufacturing industries. As demand fell off for the products of many of these industries, several record output declines were posted. Gray iron foundries, for example, had its largest drop in productivity since the series was begun in 1954 -- 11.8 percent. Output dropped by a record 25.8 percent and employee-hours declined 15.8 percent as demand for the industry's products fell off in markets such as motor vehicles and the housing industry. In both the primary aluminum and the aluminum rolling and drawing industries, large productivity declines were posted -- 6.1 and 6.5 percent, respectively. Output in both of these industries fell drastically in the face of reduced purchases of aluminum by automobile manufacturers and the housing, aircraft, and petroleum refining industries. The productivity decline in the copper rolling and drawing industry of 5.3 percent was associated with a record drop in output of 27.7 percent. The fall-off during 1975 in motor vehicle manufacturing and construction activity, important markets for this industry, contributed to the dramatic drop in output. Output in the household appliance industry experienced a record drop of 22.7 percent because of depressed sales to both the new home and replacement markets. Productivity in this industry dropped 4.5 percent. Other durable goods industries with significant productivity declines were clay refractories, 13.1 percent; radio and TV receiving sets, 8.5 percent; and hydraulic cement, 7.0 percent.

Among the mining industries, coal mining had a record productivity decline of 10.4 percent, the seventh consecutive year of decline in this industry. While output increased 5.7 percent, production worker hours grew at the higher rate of 18.0 percent, due in part to contractual changes affecting mine operations. Productivity dropped 5.6 percent in iron mining and 4.3 percent in nonmetallic minerals. However, productivity increased 8.2 percent in copper mining due in part to the closing of several marginal mines.

In transportation, railroad productivity fell 3.4 percent and trucking dropped 1.7 percent. Output in both of these industries was down by over 10 percent, associated with the overall 9-percent drop in manufacturing activity in 1975. On the other hand, air transportation had a small gain in productivity of 1.2 percent. Largely as a result of a decline in international passenger miles, output in this industry was down 0.6 percent; with fewer scheduled flights, employment dropped 1.7 percent. The petroleum pipelines industry also experienced a gain in productivity -- 1.5 percent.

## Long-term trends

All the industries for which data are available have had gains in productivity over the 25-year period, 1950-75. The increases ranged from a high of 6.8 percent in air transportation to a low of 1.0 percent for footwear manufacturing. During the more recent period, 1970-75, productivity rates ranged from a high of 8.3 percent for synthetic fibers to a low of -4.8 percent for bituminous coal and lignite mining. (See table 1 and chart 1.)

Almost two-thirds of the industries had lower growth rates in the 1970-75 period than in the earlier period (1950-70 for most of the industries). This lower growth in productivity for many of the industries in the report is reflected in the experience of the nonfarm business sector of the economy, where productivity grew at the rate of 2.5 percent during 1950-70 and 1.0 percent during 1970-75.

Most of the industries exhibited growth in productivity greater than the 1.0-percent rate for the nonfarm business sector during 1970-75. A number of industries had productivity increases that were significantly above the average for this sector over this period. These were wet corn milling, 8.8 percent; synthetic fibers, 8.3 percent; candy, 7.9 percent; hosiery, 7.8 percent; aluminum rolling and drawing, 7.1 percent; malt liquors, 6.9 percent; telephone communications, 6.6 percent; and petroleum pipelines, 6.3 percent. In general, these industries recorded increases in output and declines in employee-hours over the 5-year period. One exception, telephone communications, had a very high rate of gain in output -- 7.5 percent -- and a small gain in employee-hours -- 0.8 percent. The other exception, hosiery, had a decline in output of 2.5 percent and a drop in employee-hours of 9.5 percent. Most of these industries were characterized by high capital expenditures, new technology, new products, and continued high demand for their goods and services.

While all of the industries covered in this report experienced positive rates of productivity growth in the 1950-70 period, declining rates were recorded in a number of industries during 1970-75. The declines occurred mainly in the mining industries. The coal mining industry had the largest drop, averaging 4.6 percent per year. Output in this industry grew at the low rate of 1.0 percent, while production worker hours grew at the higher rate of 5.9 percent during the 1970-75 period. Some of the factors which influenced productivity in this industry during this most recent period were strikes, more rigorous safety practices required by the Federal Coal Mine Health and Safety Act of 1969, and labor contract provisions requiring extra personnel. In copper mining (recoverable metal), productivity fell at a rate of 2.8 percent from 1970-75, as output declined 2.2 percent per year while production worker hours increased 0.6 percent annually. Productivity in iron mining (usable ore) fell at an average rate of 2.3 percent, as output declined at a rate of 1.0 percent, while production worker hours increased at the rate of 1.3 percent. Increasingly this industry has had to utilize poorer grades of ore.

In addition to the mining industries, the sugar, hydraulic cement, and retail food industries exhibited average annual declines in productivity during 1970-75. (For a graphic presentation of the long-term trends in output per employee-hour and related data for the selected industries, see charts 2-112.)

#### New measures

Grain Mill Products - SIC 204 -- Productivity in the grain mill products group increased at an average annual rate of 3.6 percent between 1963 and 1975, based on an increase in output of 3.6 percent and zero growth in employee-hours. The gains in productivity were well above the annual gain of 2.0 percent in productivity for the manufacturing sector. The grain mill products group consists of several industries, all of which experienced long-term productivity gains. Wet corn milling grew at the highest rate, 4.4 percent; followed by animal feed preparations, 4.1 percent; flour milling, 2.9 percent; rice milling, 2.8 percent; blended and prepared flour, 2.6 percent; and cereal breakfast foods increased at the lowest rate, 1.7 percent.

The long-term advance in productivity in this industry group is due to strong output gains which were primarily influenced by growth in population and in per capita food consumption, together with rising real incomes. Significant factors in the above-average productivity improvement include the economies of scale which characterize the milling industry, high rates of capital expenditures, and the capital intensity of the industry. Over the 1963-74 period, capital expenditures per employee in the grain mill products group ran at levels substantially above manufacturing as a whole. Moreover, the fixed stocks of capital invested per employee have averaged 80 percent greater than those for all manufacturing.

Continued advances in productivity are expected. However, resistance to price increases for the products manufactured by the industry may adversely affect productivity in the short run as output levels are reduced as a result of consumer shifts to less processed foodstuffs and cutbacks in livestock herds and poultry flocks. Over the long run, relatively high rates of increase in capital investment per worker should tend to keep industry productivity gains above the average for all manufacturing.

Sawmills and Planing Mills, General - SIC 2421 -- Output per employee-hour in the sawmill and planing mill industry rose at an average annual rate of 2.7 percent between 1958 and 1975. This increase was the result of a 0.3-percent average annual gain in output and a 2.3-percent drop in employee-hours. In 1975, productivity rose 5.1 percent as the drop in output (8.1 percent in 1975) was exceeded by an even larger decline in employee-hours (12.6 percent).

Technological improvements in plant design, sawing machinery, and lumber handling equipment have been major factors in the productivity gains in this industry. Mills have been designed (or renovated) so that lumber can be processed with a smooth continuous flow, requiring little manual handling. Saw blades have been improved to yield more usable lumber and less sawdust from a given log size while at the same time allowing faster production line speeds. Mechanization of lumber handling operations has also reduced labor requirements.

Productivity should continue to rise as increased mechanization continues and as some smaller, less efficient mills go out of business. Demand for wood products will continue to be dependent on trends in the construction industry and in the use of competing building materials.

Retail Food Stores - SIC 54 -- Output per hour of all persons in the retail food stores industry grew at an average annual rate of 2.4 percent, from 1958-75, reflecting an average annual increase in output of 2.4 percent, coupled with a slight growth in hours of all persons of 0.1 percent. In 1975, productivity rose 2.7 percent as output grew 0.8 percent and all person hours declined 1.9 percent.

Growth in output per hour of all persons has been influenced by a trend to fewer and larger stores serving a growing population and changes in technology and store operations designed to increase efficiency. The decline in the number of small stores has led to a major decrease in the number of partners, proprietors, and unpaid family workers in the industry, which has counteracted the increase in the number of paid employees.

The technological changes that occurred during the period studied consisted mostly of small improvements, rather than innovations that greatly altered store operations. Among such improvements were refrigeration systems with fast, self-defrosting freezers, and special surface floors in the meat department that help to reduce clean-up time, as well as faster meat wrapping machines, shrink and heat pressure wrapping film, and scales that automatically print a weight and price tag for each item.

Certain manufacturing and distribution techniques have also aided growth in output per hour of all persons. The use of shrink film rather than complete cardboard cartons has decreased the time spent opening boxes and disposing of waste cardboard. Prepackaging of produce, meat, and poultry by the distributor also saves labor time in the store. Many warehouses now mark cartons with prices, eliminating the time required for the employee to look up the price in a book before marking the individual items. The introduction of computers allowed central warehouses to be used more efficiently. In addition to other functions, computers are used for inventory control, space management, and sales forecasting. The trend toward central, as opposed to individual store, meat cutting may grow. The primary advantage is the reduction in labor time at the retail level. With central meat cutting, the waste problem is reduced and retailers are allowed more ordering flexibility.

A significant innovation has been the introduction of electronic cash registers and the uniform product code. Under this system, a unique, machine-readable symbol is placed on the merchandise. This symbol is translated into a price by a computer connected to a cash register. The cashier runs the symbol over the reader and then places the item in the grocery bag. Results can include a speed-up in checkout time, elimination of many checker errors, maintenance of inventory records, and automatic reordering of products. Labor savings are realized in the elimination of price marking on items and manual merchandise inventory counts. Training time for cashiers can possibly be reduced significantly. The main obstacle to the use of this system has been its high capital cost. There also has been some consumer resistance to the lack of price marking on the individual items. Prices may have to be marked anyway, causing retailers to lose some of the system's labor saving advantages.

Franchised New Car Dealers - SIC 5511 -- Output per employee-hour in franchised new car dealers grew at an average annual rate of 2.5 percent between 1958 and 1975. This increase resulted from a 3.5-percent average gain in output and a 1.0-percent rise in employee-hours. In 1975, productivity rose 5.4 percent, as a very slight gain in output was combined with a 5.0-percent drop in employee-hours. This decline in hours was a lagged adjustment to the relatively sharp drop in output in the previous year.

Productivity gains in the industry have resulted from investment in better designed facilities, which have improved the work flow of the dealership, especially in the service department. New tools, such as diagnostic machines, have reduced the time required for auto repairs. New scheduling systems for the service department have also increased productivity. Modern office accounting equipment, and to some extent, the use of computers, have increased efficiency in the administrative functions in the industry. Increases in average dealership size yielded advantages in large-scale sales and service operations.

Future productivity gains in this industry might be below the long-term trend if car sales do not rise in line with industry expectations. Even if the demand for automobiles continues to rise, productivity increases will be hampered if dealers cannot regain some of the repair business that has been lost to independent garages and specialized chains.

TABLE 1. SELECTED INDUSTRIES: SIC CODES, 1975 EMPLOYMENT, AND AVERAGE ANNUAL RATES OF CHANGE IN OUTPUT PER EMPLOYEE-HOUR, 1970-75

SIC Code	Industry	1975 employment (thousands)			Output per employee-hour: Average annual rate of change (percent) 1/		
		All employees	Production workers	Non-production workers	1970-75		
					All employees	Production workers	Non-production workers 2/
<u>Mining</u>							
1011	Iron mining, crude ore-----	25	20	5	(3/)	0.2	(3/)
1011	Iron mining, usable ore-----	25	20	5	(3/)	-2.3	(3/)
1021	Copper mining, crude ore-----	37	28	9	(3/)	1.4	(3/)
1021	Copper mining, recoverable metal-----	37	28	9	(3/)	-2.8	(3/)
111, 121	Coal mining-----	202	172	30	(3/)	-4.6	(3/)
121	Bituminous coal and lignite mining-----	198	169	29	(3/)	-4.8	(3/)
14	Nonmetallic minerals-----	115	91	24	(3/)	1.8	(3/)
142	Crushed and broken stone-----	40	32	8	(3/)	2.7	(3/)
<u>Manufacturing</u>							
203	Canning and preserving-----	293	245	48	4/ 3.7	4/ 3.9	4/ (2.7)
204	Grain mill products-----	138	96	42	3.3	3.5	(2.8)
2041	Flour and other grain mill products-----	26	19	7	2.0	1.7	(3.0)
2043	Cereal breakfast foods-----	15	12	3	4/ 0.2	4/ -0.2	4/ (2.4)
2044	Rice milling-----	5	4	1	4/ 2.5	4/ 1.3	4/ (5.0)
2045	Blended and prepared flour-----	8	6	2	4/ 0.9	4/ 0.3	4/ (2.8)
2046	Wet corn milling-----	12	8	4	4/ 8.8	4/ 8.9	4/ (8.4)
2047, 48	Prepared feeds for animals and fowls-----	71	47	24	4/ 2.6	4/ 3.1	4/ (1.6)
205	Bakery products-----	236	135	101	2.2	3.5	(0.2)
2061, 62, 63	Sugar-----	35	27	8	-0.7	0.3	(-4.7)
2065	Candy and confectionery products-----	54	42	12	7.9	9.2	(2.6)
2082	Malt liquor-----	51	34	17	6.9	5.5	(9.6)
2086	Bottled and canned soft drinks-----	126	46	80	3.8	4.6	(3.3)
2111, 21, 31	Tobacco products--total-----	60	50	10	1.8	2.4	(-2.2)
2111, 31	Cigarettes, chewing and smoking tobacco-----	49	40	9	1.7	2.4	(-2.4)
2121	Cigars-----	12	10	2	2.3	2.3	(2.9)
2251, 52	Hosiery-----	70	62	8	7.8	8.3	(4.5)
2421	Sawmills and planing mills, general-----	168	149	19	1.4	1.8	(-2.3)
2611, 21,31,61	Paper, paperboard and pulp mills-----	258	199	59	2.5	3.1	(0.1)
2653	Corrugated and solid fiber boxes-----	95	69	26	5.0	6.2	(1.8)
2823, 24	Synthetic fibers-----	105	73	32	8.3	8.8	(6.7)
2834	Pharmaceutical preparations-----	130	62	68	4.7	6.0	(3/)
2851	Paints and allied products-----	65	34	31	4.2	5.0	(3.1)
2911	Petroleum refining-----	154	94	60	3.3	3.1	(3.8)
3011	Tires and inner tubes-----	118	85	33	1.6	1.7	(1.4)
314	Footwear-----	163	141	22	(5/)	0.4	(-2.6)
3221	Glass containers-----	73	64	9	2.9	3.1	(1.2)
3241	Hydraulic cement-----	30	24	6	-0.2	-0.2	(-0.4)
325	Structural clay products-----	44	35	9	3.1	2.7	(4.7)
3251, 53, 59	Clay construction products-----	32	26	6	2.6	2.5	(3.2)
3255	Clay refractories-----	12	9	3	4.1	2.7	(8.9)
3271, 72	Concrete products-----	83	63	20	4/ 2.3	4/ 2.7	4/ (0.9)
3273	Ready-mixed concrete-----	87	(3/)	(3/)	4/ 2.6	(3/)	(3/)
331	Steel-----	545	424	121	2.8	2.9	(2.2)
3321	Gray iron foundries-----	138	116	22	2.1	2.3	(1.1)
3324, 25	Steel foundries-----	65	52	13	3.9	3.6	(5.1)
3331, 32, 33	Primary copper, lead, and zinc-----	24	19	5	1.5	2.4	(-2.7)
3334	Primary aluminum-----	29	23	6	2.0	2.2	(1.4)
3351	Copper rolling and drawing-----	32	24	8	0.2	0.7	(-1.4)
3353, 54, 55	Aluminum rolling and drawing-----	56	38	18	7.1	7.1	(7.1)
341	Metal cans-----	64	55	9	2.9	3.1	(1.8)
3631,32,33,39	Major household appliances-----	77	60	17	3.7	4.3	(1.3)
3651	Radio and television receiving sets-----	75	57	18	1.7	1.8	(1.7)
371	Motor vehicles and equipment-----	774	593	181	3.7	3.7	(4.0)
<u>Other</u>							
401, Class I	Railroads, revenue traffic-----	515	453	62	3.5	3.5	3.3
401, Class I	Railroads, car-miles-----	515	453	62	1.6	1.7	1.5
4213 PT.	Intercity trucking-----	626	(3/)	(3/)	6/ 2.8	(3/)	(3/)
4213 PT.	Intercity trucking, general freight-----	413	(3/)	(3/)	(3/)	(3/)	(3/)
4511	Air transportation-----	298	(3/)	(3/)	6/ 4.2	(3/)	(3/)
4612, 13	Petroleum pipelines-----	16	13	3	6.3	6.9	(3/)
4811	Telephone communications-----	962	(3/)	(3/)	6.6	(3/)	(3/)
491, 92, 93	Gas and electric utilities-----	668	7/ 557	8/ 111	2.1	7/ 2.7	(3/)
54	Retail food stores 9/-----	2,222	(3/)	(3/)	-1.0	(3/)	(3/)
5511	Franchised new car dealers-----	730	(3/)	(3/)	2.3	(3/)	(3/)
5541	Gasoline service stations 9/-----	852	(3/)	(3/)	2.0	(3/)	(3/)
7011	Hotels, motels, and tourist courts 9/-----	886	(3/)	(3/)	2.8	(3/)	(3/)

1/ Based on the linear least squares trends of the logarithms of the index numbers.

2/ Rates of change for nonproduction workers (in parentheses) are subject to a wider margin of error than other rates shown.

3/ Not available.

4/ 1970-74.

5/ Less than .05 percent.

6/ Output per employee.

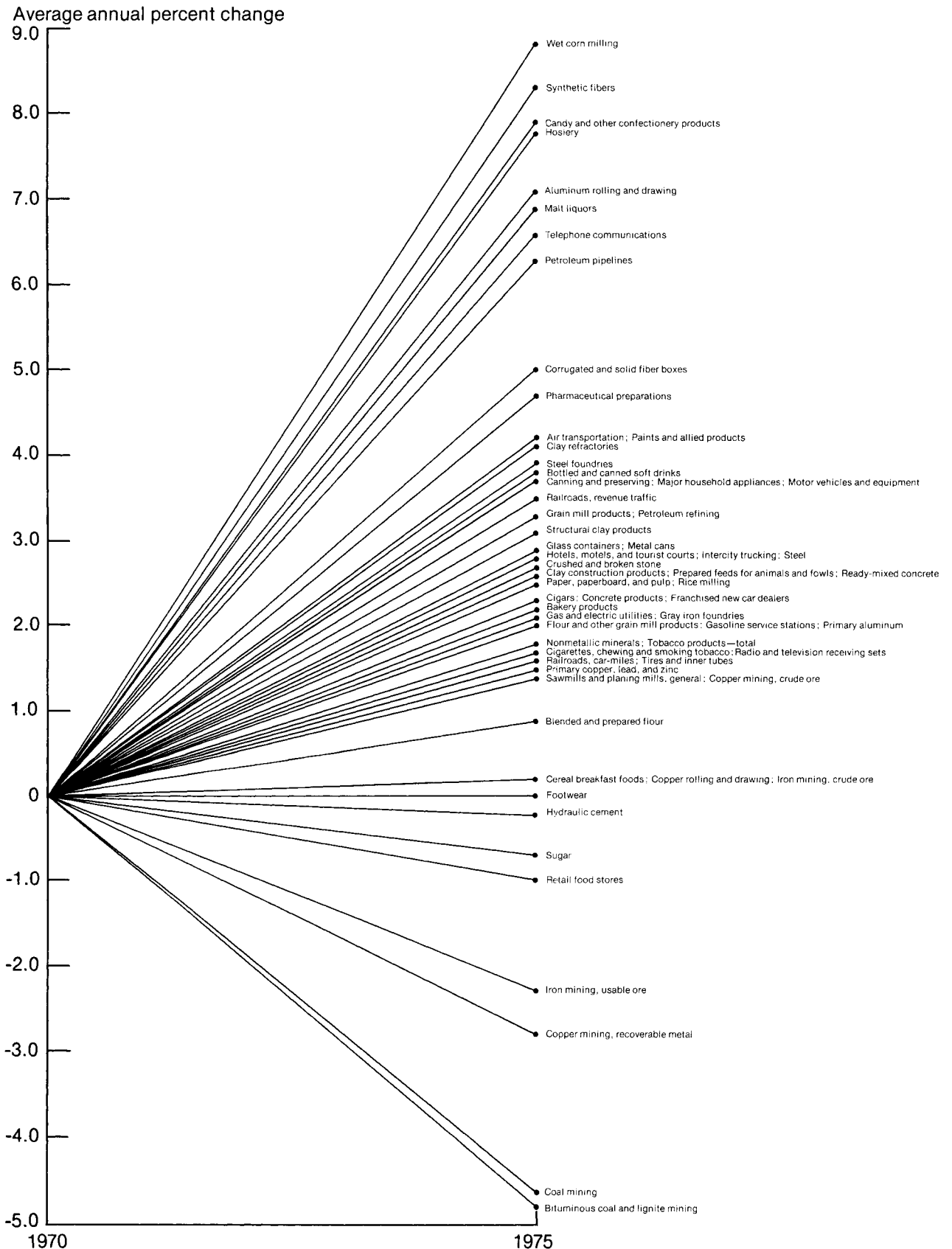
7/ Nonsupervisory personnel.

8/ Supervisory personnel and force account construction workers.

9/ Data relate to all persons.

Chart 1.

# Growth in Output per Employee-Hour in Selected Industries, 1970-75



## Methods and Data

The indexes of output per employee-hour are computed by dividing an output index by an index of aggregate employee-hours. Corresponding measures also are computed relating output to the number of employees. Thus, the industry indexes presented measure changes in the relationship between output and employment or employee-hours.

The output indexes are based primarily on the physical output of the products of the industry combined with fixed period weights. Unit employee-hour weights are used whenever possible to aggregate the data.

For many industries, however, unit labor weights are not available at the detailed product level so substitute weights must be used. The most common substitute weights are unit values, which are assumed to be proportional to unit employee-hours. For many manufacturing industries, however, employee-hour weights at the product-class level can be developed from the available data. In such cases, a dual level weighting system is used -- unit value weights at the product level and unit labor weights at the product-class level.

Although the weights relate to fixed periods, they are updated periodically, usually in conjunction with economic censuses. Thus, most indexes for 1947-58 are based on 1947 weights; for 1958-63, 1958 weights; for 1963-67, 1963 weights; for 1967-72, 1967 weights; and for 1972-75, 1972 weights. For three industries -- railroads, iron mining, and copper mining -- two alternative productivity measures, using different concepts of industry output, are presented.

Periodically, the output indexes for most of the measures are adjusted to levels based on data reported in the economic censuses for mining, manufacturing, and business. The most current adjustments presented in this report reflect data from the 1972 economic censuses.

Employment and employee-hour indexes are developed primarily from basic data compiled by the Bureau of Labor Statistics (BLS) and the Bureau of the Census. In concept, indexes based on employee-hour data from the Bureau of the Census relate to plant hours only. Employee-hour data from BLS include not only hours at work but also payroll hours such as vacations, holidays, and sick leave paid by the establishment directly to the employee. 1/ In general, because of increases in paid leave during

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1/ Indexes for the railroad transportation industry are based on data from the Interstate Commerce Commission (ICC) and are related primarily to hours at work.



the period, output per employee-hour worked would tend to show a somewhat higher rate of gain than output per employee-hour paid. However, actual differences may result from statistical limitations in the data as well as from differences in concepts.

This report includes indexes of output per employee-hour and output per employee. In most cases, the indexes are shown for all employees, production workers, and nonproduction workers. <sup>2/</sup> Although both the Bureau of the Census and BLS provide data on production worker hours, neither source provides annual data by industry on nonproduction worker or all employee-hours. Therefore, the nonproduction worker hours are estimated.

The estimates of aggregate nonproduction worker hours for the manufacturing industries are derived from published employment data and from estimates of average annual hours paid or worked per nonproduction worker. Prior to 1968, the estimates of average annual hours paid were calculated by multiplying the number of workweeks in the year by the scheduled weekly hours. Estimated hours for vacations, holidays, disability, and personal time off were subtracted from average annual hours paid to obtain an estimate of average annual hours worked. Vacation and holiday trends were based on studies by the U. S. Department of Health, Education, and Welfare, and on data from BLS surveys. Personal time off was estimated as a constant on the basis of data obtained from various sources. Since 1968, the estimates of average annual hours paid and average annual hours worked have been based directly on data collected in the BLS biennial survey, Employee Compensation in the Private Nonfarm Economy.

For three "service" industries -- retail food stores, gasoline service stations, and hotels, motels, and tourist courts -- measures of the hours of partners, proprietors, and supervisory (nonproduction) workers were developed. Except for hotels, motels, and tourist courts, estimates were also made for the hours of unpaid family workers. Average weekly hours worked for partners, proprietors, and unpaid family workers were obtained from unpublished data collected in the Current Population Survey. The data were compiled for the BLS by the Bureau of the Census. Average weekly hours worked by supervisory employees were obtained from the 1960 and 1970 censuses of population. Estimates for intercensal years were derived using extrapolation and linear interpolation techniques.

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<sup>2/</sup> The term "production workers" has been used for many years to cover manufacturing and mining employees who work at the plant or mine and who are generally in nonsupervisory occupations. The remaining employees, such as professional, technical, clerical, supervisory, etc., have been identified as "nonproduction workers."

All employee-hour estimates for the manufacturing industries are derived by summing the aggregate hours for production workers and the estimated hours for nonproduction workers. Hours of all persons are derived by summing the aggregate hours for paid employees, partners, proprietors, and unpaid family workers.

Manufacturing indexes involving nonproduction worker hours are subject to a wider margin of error than are the indexes involving only production worker hours because it is necessary to estimate the average hours of nonproduction workers. In general, any errors in these estimates, however, would have a relatively insignificant effect on the trend in the hours for all employees.

The output indexes and employee-hour components of the industry productivity indexes are based on data from a number of different sources which are identified in the accompanying tables. For most of the industries, the 1975 output indexes are based on the data sources that are regularly used. However, for some industries, the normal data sources are not as yet available, and other information, such as the Federal Reserve Board output indexes, the Current Industrial Reports of the Bureau of the Census, and trade association data, were used. For those industries using the Bureau of the Census or the Interstate Commerce Commission as the primary source of employment and employee-hours, the 1975 indexes were developed by linking employment and employee-hour data from BLS, since 1975 census data are not yet available. Therefore, all 1975 output per employee-hour measures are considered preliminary and are subject to revision.

The indexes refer to the standard reference base 1967=100 and conform to the 1972 Standard Industrial Classification (SIC) system. With one exception, they are comparable (except for revisions in data) with the indexes published in previous bulletins. In prior years, the measures conformed to the 1967 SIC definitions. For the canning and preserving industry (SIC 203), two "subindustries" -- canned and cured seafoods and fresh or frozen packaged fish -- were transferred from SIC 203 to SIC 209. From 1973 on, therefore, the measures for SIC 203 do not contain these two "subindustries." In terms of employee-hours, these two subindustries accounted for about 14 percent of SIC 203 in 1972. Linking techniques were used to maintain a statistically consistent series from 1947 forward.

The average annual rates of change published in this bulletin are based on the linear least squares trends of the logarithms of the index numbers. Average annual rates of change for any time periods shown in this report are available on request from the Bureau of Labor Statistics.

More detailed information on the methods, limitations, and data sources is contained in the BLS Handbook of Methods, BLS Bulletin 1910 (1976), Chapter 31, and in a number of individual industry reports. Industry reports as well as additional information are available on request from the Bureau of Labor Statistics. The handbook is for sale by the Superintendent of Documents, Washington, D. C. 20402, or at the Bureau of Labor Statistics regional offices listed on the inside back cover of this bulletin.

## Tables

### Indexes of Output Per Employee-Hour and Related Data

SIC Code	Industry	Table	Page
<u>Mining</u>			
1011	Iron mining, crude ore.....	2,3	15-16
1011	Iron mining, usable ore.....	4,5	17-18
1021	Copper mining, crude ore.....	6,7	19-20
1021	Copper mining, recoverable metal...	8,9	21-22
111,121	Coal mining.....	10,11	23-24
121	Bituminous coal and lignite mining.	12,13	25-26
14	Nonmetallic minerals.....	14,15	27-28
142	Crushed and broken stone.....	16,17	29-30
<u>Manufacturing</u>			
203	Canning and preserving.....	18,19	31-32
204	Grain mill products.....	20,21	33-34
2041	Flour and other grain mill products.....	22,23	35-36
2043	Cereal breakfast foods.....	24,25	37-38
2044	Rice milling.....	26,27	39-40
2045	Blended and prepared flour.....	28,29	41-42
2046	Wet corn milling.....	30,31	43-44
2047,48	Prepared feeds for animals and fowls.....	32,33	45-46
205	Bakery products.....	34,35	47-48
2061,62,63	Sugar.....	36,37	49-50
2065	Candy and confectionery products...	38,39	51-52
2082	Malt liquors.....	40,41	53-54
2086	Bottled and canned soft drinks.....	42,43	55-56
2111,21,31	Tobacco products - total.....	44,45	57-58
2111,31	Cigarettes, chewing and smoking tobacco.....	46,47	59-60
2121	Cigars.....	48,49	61-62
2251,52	Hosiery.....	50,51	63-64
2421	Sawmills and planing mills, general.....	52,53	65-66
2611,21,31,61	Paper, paperboard and pulp mills...	54,55	67-68
2653	Corrugated and solid fiber boxes...	56,57	69-70
2823,24	Synthetic fibers.....	58,59	71-72
2834	Pharmaceutical preparations.....	60,61	73-74
2851	Paints and allied products.....	62,63	75-76
2911	Petroleum refining.....	64,65	77-78

Tables—Continued

SIC Code	Industry	Table	Page
<u>Manufacturing -- continued</u>			
3011	Tires and inner tubes.....	66,67	79-80
314	Footwear.....	68,69	81-82
3221	Glass containers.....	70,71	83-84
3241	Hydraulic cement.....	72,73	85-86
325	Structural clay.....	74,75	87-88
3251,53,59	Clay construction products.....	76,77	89-90
3255	Clay refractories.....	78,79	91-92
3271,72	Concrete products.....	80,81	93-94
3273	Ready-mixed concrete.....	82	95
331	Steel.....	83,84	96-97
3321	Gray iron foundries.....	85,86	98-99
3324,25	Steel foundries.....	87,88	100-101
3331,32,33	Primary copper, lead, and zinc....	89,90	102-103
3334	Primary aluminum.....	91,92	104-105
3351	Copper rolling and drawing.....	93,94	106-107
3353,54,55	Aluminum rolling and drawing.....	95,96	108-109
341	Metal cans.....	97,98	110-111
3631,32,33, 39	Major household appliances.....	99,100	112-113
3651	Radio and television receiving sets.....	101,102	114-115
371	Motor vehicles and equipment.....	103,104	116-117
<u>Other</u>			
401 Class I	Railroads, revenue traffic.....	105,106	118-119
401 Class I	Railroads, car-miles.....	107,108	120-121
4213 PT.	Intercity trucking.....	109	122
4213 PT.	Intercity trucking (general freight).....	110	123
4511	Air transportation.....	111	124
4612,13	Pipelines.....	112,113	125-126
4811	Telephone communications.....	114	127
491,92,93	Gas and electric utilities.....	115,116	128-129
54	Retail food stores.....	117	130
5511	Franchised new car dealers.....	118	131
5541	Gasoline service stations.....	119	132
7011	Hotels and motels.....	120	133

TABLE 2. IRON MINING, CRUDE ORE SIC 1011  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967=100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	31.4	(2/)	29.5	(2/)
1947.....	37.9	43.7	38.8	87.1
1948.....	38.6	45.2	40.4	83.7
1949.....	37.0	40.6	37.1	64.2
1950.....	41.1	46.0	42.3	70.2
1951.....	45.3	52.2	48.1	77.7
1952.....	42.8	49.4	46.8	62.8
1953.....	45.0	50.2	47.4	65.2
1954.....	41.0	39.6	38.3	46.0
1955.....	52.9	53.6	52.5	58.0
1956.....	55.5	53.9	54.2	52.8
1957.....	56.2	53.3	54.2	50.2
1958.....	55.1	45.4	48.4	36.6
1959.....	57.1	48.7	52.3	38.2
1960.....	64.9	61.3	62.6	56.3
1961.....	75.2	66.9	70.3	56.2
1962.....	81.0	74.9	78.1	64.4
1963.....	90.0	83.5	84.7	78.4
1964.....	97.6	94.3	94.3	94.3
1965.....	94.5	93.3	92.6	96.1
1966.....	95.8	96.6	96.2	97.8
1967.....	100.0	100.0	100.0	100.0
1968.....	109.3	107.6	108.4	104.9
1969.....	115.8	112.2	114.4	104.6
1970.....	116.0	113.8	115.6	107.5
1971.....	117.1	110.8	112.8	103.9
1972.....	124.4	119.2	122.2	108.6
1973.....	126.7	127.3	129.0	121.1
1974.....	118.1	120.8	122.4	115.3
1975 <u>3/</u> .....	116.6	116.8	119.0	108.8
AVERAGE ANNUAL RATES (PERCENT)				
1950-75.....	5.2	4.9	5.2	3.6
1970-75.....	0.2	1.3	1.3	1.4

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 3. IRON MINING, CRUDE ORE SIC 1011  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	33.4	106.3	(1/)	113.4	(1/)
1947.....	64.4	170.0	147.4	166.1	73.9
1948.....	71.0	183.7	157.1	175.7	84.8
1949.....	58.7	158.7	144.7	158.3	91.4
1950.....	70.2	170.8	152.6	166.1	100.0
1951.....	84.5	186.4	161.9	175.7	108.8
1952.....	71.0	165.8	143.8	151.7	113.1
1953.....	86.4	192.1	172.2	182.3	132.6
1954.....	60.0	146.5	151.4	156.7	130.5
1955.....	78.2	147.7	146.0	148.9	134.9
1956.....	80.4	144.9	149.2	148.4	152.2
1957.....	88.5	157.4	165.9	163.4	176.2
1958.....	60.5	109.8	133.2	125.0	165.3
1959.....	56.6	99.1	116.3	108.3	148.0
1960.....	85.7	132.1	139.9	136.8	152.2
1961.....	75.8	100.8	113.3	107.8	134.9
1962.....	79.8	98.5	106.6	102.2	124.0
1963.....	85.3	94.8	102.2	100.7	108.8
1964.....	96.4	98.8	102.2	102.2	102.2
1965.....	98.2	103.9	105.3	106.1	102.2
1966.....	100.0	104.4	103.5	103.9	102.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	107.2	98.1	99.6	98.9	102.2
1969.....	113.7	98.2	101.3	99.4	108.7
1970.....	116.9	100.8	102.7	101.1	108.7
1971.....	108.4	92.6	97.8	96.1	104.3
1972.....	103.9	83.5	87.2	85.0	95.7
1973.....	121.1	95.6	95.1	93.9	100.0
1974.....	120.3	101.9	99.6	98.3	104.3
1975 <u>2/</u> .....	118.3	101.5	101.3	99.4	108.7
AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	2.4	-2.7	-2.4	-2.7	-1.2
1970-75.....	1.5	1.3	0.2	0.2	0.1

1/ Not available.

2/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 4. IRON MINING, USABLE ORE SIC 1011  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	56.5	(2/)	53.0	(2/)
1947.....	63.8	73.5	65.3	146.7
1948.....	64.1	75.0	67.0	138.9
1949.....	62.4	68.4	62.5	108.3
1950.....	67.0	75.0	68.9	114.4
1951.....	73.1	84.1	77.5	125.2
1952.....	69.1	79.6	75.5	101.2
1953.....	71.9	80.3	75.8	104.2
1954.....	62.2	60.2	58.1	69.8
1955.....	81.1	82.1	80.5	88.8
1956.....	78.2	75.9	76.3	74.4
1957.....	78.1	74.1	75.3	69.8
1958.....	70.9	58.5	62.3	47.1
1959.....	70.0	59.7	64.1	46.9
1960.....	78.0	73.6	75.3	67.7
1961.....	82.2	73.2	76.9	61.5
1962.....	85.1	78.6	82.0	67.6
1963.....	90.6	84.1	85.3	79.0
1964.....	100.4	97.1	97.1	97.1
1965.....	99.1	97.8	97.1	100.8
1966.....	102.2	103.1	102.7	104.4
1967.....	100.0	100.0	100.0	100.0
1968.....	103.8	102.2	102.9	99.6
1969.....	106.5	103.3	105.2	96.2
1970.....	105.4	103.4	105.0	97.7
1971.....	103.0	97.5	99.3	91.5
1972.....	106.5	101.9	104.6	92.9
1973.....	108.2	108.7	110.1	103.4
1974.....	97.6	99.9	101.2	95.4
1975 <u>3/</u> .....	92.2	92.4	94.2	86.1
	AVERAGE ANNUAL RATES (PERCENT)			
1950-75.....	2.0	1.7	2.0	0.5
1970-75.....	-2.3	-1.2	-1.2	-1.1

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 5. IRON MINING, USABLE ORE SIC 1011  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	60.1	106.3	(1/)	113.4	(1/)
1947.....	108.4	170.0	147.4	166.1	73.9
1948.....	117.8	183.7	157.1	175.7	84.8
1949.....	99.0	158.7	144.7	158.3	91.4
1950.....	114.4	170.8	152.6	166.1	100.0
1951.....	136.2	186.4	161.9	175.7	108.8
1952.....	114.5	165.8	143.8	151.7	113.1
1953.....	138.2	192.1	172.2	182.3	132.6
1954.....	91.1	146.5	151.4	156.7	130.5
1955.....	119.8	147.7	146.0	148.9	134.9
1956.....	113.3	144.9	149.2	148.4	152.2
1957.....	123.0	157.4	165.9	163.4	176.2
1958.....	77.9	109.8	133.2	125.0	165.3
1959.....	69.4	99.1	116.3	108.3	148.0
1960.....	103.0	132.1	139.9	136.8	152.2
1961.....	82.9	100.8	113.3	107.8	134.9
1962.....	83.8	98.5	106.6	102.2	124.0
1963.....	85.9	94.8	102.2	100.7	108.8
1964.....	99.2	98.8	102.2	102.2	102.2
1965.....	103.0	103.9	105.3	106.1	102.2
1966.....	106.7	104.4	103.5	103.9	102.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	101.8	98.1	99.6	98.9	102.2
1969.....	104.6	98.2	101.3	99.4	108.7
1970.....	106.2	100.8	102.7	101.1	108.7
1971.....	95.4	92.6	97.8	96.1	104.3
1972.....	88.9	83.5	87.2	85.0	95.7
1973.....	103.4	95.6	95.1	93.9	100.0
1974.....	99.5	101.9	99.6	98.3	104.3
1975 <u>2/</u> .....	93.6	101.5	101.3	99.4	108.7
AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	-0.7	-2.7	-2.4	-2.7	-1.2
1970-75.....	-1.0	1.3	0.2	0.2	0.1

1/ Not available.  
2/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 6. COPPER MINING, CRUDE ORE SIC 1021  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	26.0	(2/)	27.8	(2/)
1947.....	41.1	53.1	47.0	83.4
1948.....	39.6	51.7	45.6	82.3
1949.....	40.7	49.0	43.7	74.1
1950.....	48.6	61.3	55.5	86.5
1951.....	48.4	61.7	56.7	82.4
1952.....	50.8	63.2	58.8	80.1
1953.....	48.1	59.4	55.8	71.9
1954.....	49.9	56.5	53.8	64.7
1955.....	56.4	65.6	62.7	75.5
1956.....	57.5	66.7	63.0	80.0
1957.....	63.1	67.8	64.8	77.7
1958.....	69.8	70.0	68.1	76.0
1959.....	71.5	75.6	75.2	76.8
1960.....	73.3	82.2	80.2	88.7
1961.....	75.2	86.0	80.5	106.7
1962.....	82.3	93.1	86.1	120.5
1963.....	82.0	94.5	86.2	129.6
1964.....	93.5	105.3	96.6	140.5
1965.....	96.2	109.3	99.4	151.2
1966.....	101.9	114.1	104.3	154.7
1967.....	100.0	100.0	100.0	100.0
1968.....	106.2	117.7	117.3	118.8
1969.....	108.3	125.8	118.7	150.9
1970.....	115.2	129.3	122.6	152.5
1971.....	121.2	126.7	125.3	130.8
1972.....	118.1	123.7	119.3	138.1
1973.....	117.7	126.8	121.0	146.7
1974.....	117.6	121.4	117.3	134.7
1975 <u>3/</u> .....	128.9	123.7	122.9	125.9
AVERAGE ANNUAL RATES (PERCENT)				
1950-75.....	4.4	3.8	3.9	3.2
1970-75.....	1.4	-0.9	-0.5	-2.3

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees. The output measure represents copper ore (including old tailings) sold or treated.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 7. COPPER MINING, CRUDE ORE SIC 1021  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT <u>1/</u>	EMPLOYEE-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	40.9	157.6	(2/)	146.9	(2/)
1947.....	66.1	160.8	124.5	140.7	79.3
1948.....	63.9	161.2	123.6	140.1	77.6
1949.....	57.5	141.4	117.3	131.5	77.6
1950.....	71.6	147.4	116.8	129.0	82.8
1951.....	72.4	149.6	117.3	127.8	87.9
1952.....	75.9	149.4	120.0	129.0	94.8
1953.....	76.9	159.8	129.5	137.7	106.9
1954.....	71.4	143.0	126.4	132.7	110.3
1955.....	85.9	152.3	130.9	137.0	113.8
1956.....	100.7	175.2	150.9	159.9	125.9
1957.....	99.2	157.1	146.4	153.1	127.6
1958.....	87.8	125.7	125.5	129.0	115.5
1959.....	79.4	111.0	105.0	105.6	103.4
1960.....	103.9	141.7	126.4	129.6	117.2
1961.....	110.3	146.6	128.2	137.0	103.4
1962.....	116.4	141.5	125.0	135.2	96.6
1963.....	113.9	138.9	120.5	132.1	87.9
1964.....	121.1	129.5	115.0	125.3	86.2
1965.....	135.6	141.0	124.1	136.4	89.7
1966.....	146.7	144.0	128.6	140.7	94.8
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	133.2	125.4	113.2	113.6	112.1
1969.....	174.3	161.0	138.6	146.9	115.5
1970.....	199.8	173.5	154.5	163.0	131.0
1971.....	187.2	154.4	147.7	149.4	143.1
1972.....	204.8	173.4	165.5	171.6	148.3
1973.....	222.6	189.2	175.5	184.0	151.7
1974.....	225.2	191.5	185.5	192.0	167.2
1975 <u>3/</u> .....	201.8	156.5	163.2	164.2	160.3
AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	4.9	0.4	1.1	0.9	1.6
1970-75.....	2.0	0.6	2.9	2.5	4.4

1/ Represents output in terms of copper ore (including old tailings) sold or treated.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 8. COPPER MINING, RECOVERABLE METAL SIC 1021  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	47.1	(2/)	50.5	(2/)
1947.....	54.4	70.3	62.2	110.3
1948.....	53.4	69.7	61.5	111.0
1949.....	54.5	65.6	58.6	99.2
1950.....	63.4	80.0	72.4	112.8
1951.....	63.6	81.2	74.5	108.3
1952.....	63.8	79.4	73.9	100.5
1953.....	60.1	74.1	69.7	89.8
1954.....	60.5	68.4	65.2	78.4
1955.....	68.2	79.3	75.8	91.2
1956.....	65.6	76.1	71.9	91.3
1957.....	71.8	77.0	73.7	88.4
1958.....	81.1	81.3	79.1	88.3
1959.....	77.2	81.6	81.2	82.9
1960.....	79.4	89.0	86.8	96.0
1961.....	82.9	94.8	88.7	117.5
1962.....	90.4	102.3	94.6	132.4
1963.....	90.9	104.8	95.6	143.7
1964.....	100.3	113.0	103.7	150.7
1965.....	100.1	113.8	103.5	157.4
1966.....	103.8	116.3	106.3	157.7
1967.....	100.0	100.0	100.0	100.0
1968.....	101.0	111.9	111.5	113.0
1969.....	101.3	117.7	111.0	141.2
1970.....	105.1	118.0	111.8	139.2
1971.....	104.9	109.7	108.4	113.2
1972.....	102.5	107.4	103.6	119.9
1973.....	97.0	104.6	99.7	121.0
1974.....	89.0	91.9	88.8	102.0
1975 <u>3/</u> .....	96.3	92.3	91.8	94.0
AVERAGE ANNUAL RATES (PERCENT)				
1950-75.....	2.4	1.7	1.9	1.1
1970-75.....	-2.8	-5.0	-4.5	-6.3

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees. The output measure represents copper recovered from copper ore, old tailings, and precipitates.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 9. COPPER MINING, RECOVERABLE METAL SIC 1021  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT <sup>1/</sup>	EMPLOYEE-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	74.2	157.6	(2/)	146.9	(2/)
1947.....	87.5	160.8	124.5	140.7	79.3
1948.....	86.1	161.2	123.6	140.1	77.6
1949.....	77.0	141.4	117.3	131.5	77.6
1950.....	93.4	147.4	116.8	129.0	82.8
1951.....	95.2	149.6	117.3	127.8	87.9
1952.....	95.3	149.4	120.0	129.0	94.8
1953.....	96.0	159.8	129.5	137.7	106.9
1954.....	86.5	143.0	126.4	132.7	110.3
1955.....	103.8	152.3	130.9	137.0	113.8
1956.....	114.9	175.2	150.9	159.9	125.9
1957.....	112.8	157.1	146.4	153.1	127.6
1958.....	102.0	125.7	125.5	129.0	115.5
1959.....	85.7	111.0	105.0	105.6	103.4
1960.....	112.5	141.7	126.4	129.6	117.2
1961.....	121.5	146.6	128.2	137.0	103.4
1962.....	127.9	141.5	125.0	135.2	96.6
1963.....	126.3	138.9	120.5	132.1	87.9
1964.....	129.9	129.5	115.0	125.3	86.2
1965.....	141.2	141.0	124.1	136.4	89.7
1966.....	149.5	144.0	128.6	140.7	94.8
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	126.7	125.4	113.2	113.6	112.1
1969.....	163.1	161.0	138.6	146.9	115.5
1970.....	182.3	173.5	154.5	163.0	131.0
1971.....	162.0	154.4	147.7	149.4	143.1
1972.....	177.8	173.4	165.5	171.6	148.3
1973.....	183.5	189.2	175.5	184.0	151.7
1974.....	170.5	191.5	185.5	192.0	167.2
1975 <sup>3/</sup> .....	150.7	156.5	163.2	164.2	160.3
AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	2.8	0.4	1.1	0.9	1.6
1970-75.....	-2.2	0.6	2.9	2.5	4.4

<sup>1/</sup> Represents output in terms of copper recovered from copper ore, old tailings, and precipitates.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 10. COAL MINING SIC 111, 121  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>	OUTPUT PER EMPLOYEE <sup>1/</sup>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	29.3	24.1	22.2	57.0
1947.....	32.2	35.1	32.7	71.7
1948.....	32.1	33.0	30.8	66.9
1949.....	33.2	26.6	25.0	49.1
1950.....	35.9	32.8	30.8	59.6
1951.....	36.2	33.8	31.7	62.5
1952.....	38.0	33.8	31.9	57.3
1953.....	40.6	36.6	34.7	59.8
1954.....	47.7	40.7	39.3	55.5
1955.....	51.2	50.1	48.3	68.4
1956.....	54.1	52.6	50.9	68.2
1957.....	54.8	50.8	49.7	60.9
1958.....	61.2	50.8	51.0	49.7
1959.....	62.7	55.2	55.7	52.0
1960.....	66.8	58.6	59.2	54.9
1961.....	74.0	65.2	65.7	62.3
1962.....	79.2	72.0	71.9	73.4
1963.....	83.1	79.2	78.4	86.2
1964.....	87.8	84.5	83.6	91.3
1965.....	93.1	91.4	91.0	94.7
1966.....	98.0	97.6	97.6	97.9
1967.....	100.0	100.0	100.0	100.0
1968.....	103.2	101.3	102.0	97.0
1969.....	101.8	99.6	100.1	96.8
1970.....	97.0	97.5	97.6	96.8
1971.....	91.0	87.4	91.5	66.1
1972.....	84.2	83.3	85.4	71.6
1973.....	83.9	81.9	83.0	75.3
1974.....	82.6	76.9	78.4	68.1
1975 <sup>2/</sup> .....	73.9	70.9	72.2	63.3
	AVERAGE ANNUAL RATES (PERCENT)			
1950-75.....	3.9	4.3	4.7	1.6
1970-75.....	-4.6	-5.5	-5.6	-5.5

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 11. COAL MINING SIC 111, 121  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT		
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	
1939.....	87.7	299.3	364.6	394.5	153.9	
1947.....	131.8	409.4	375.6	402.8	183.7	
1948.....	126.2	393.3	382.4	409.8	188.5	
1949.....	92.6	278.9	347.5	369.9	188.5	
1950.....	106.9	297.8	325.9	346.7	179.4	
1951.....	109.2	302.0	323.4	344.6	174.6	
1952.....	96.6	254.5	285.9	302.5	168.5	
1953.....	91.3	224.8	249.7	263.4	152.8	
1954.....	79.4	166.6	195.0	202.2	143.0	
1955.....	91.6	178.9	182.7	189.6	133.9	
1956.....	99.7	184.4	189.7	195.8	146.1	
1957.....	97.1	177.3	191.0	195.5	159.4	
1958.....	81.3	132.9	160.1	159.4	163.7	
1959.....	81.2	129.6	147.2	145.9	156.3	
1960.....	80.8	120.9	138.0	136.6	147.2	
1961.....	77.8	105.1	119.4	118.5	124.8	
1962.....	80.9	102.2	112.3	112.5	110.2	
1963.....	87.8	105.6	110.8	112.0	101.8	
1964.....	91.8	104.5	108.7	109.8	100.6	
1965.....	94.7	101.7	103.6	104.1	100.0	
1966.....	97.3	99.3	99.7	99.7	99.4	
1967.....	100.0	100.0	100.0	100.0	100.0	
1968.....	97.6	94.6	96.3	95.7	100.6	
1969.....	99.1	97.3	99.5	99.0	102.4	
1970.....	105.0	108.2	107.7	107.6	108.5	
1971.....	95.3	104.7	109.1	104.1	144.2	
1972.....	101.1	120.0	121.3	118.4	141.2	
1973.....	100.4	119.7	122.6	121.0	133.3	
1974.....	102.3	123.9	133.0	130.5	150.3	
1975 <u>1/</u> .....	108.1	146.2	152.4	149.8	170.9	
AVERAGE ANNUAL RATES (PERCENT)						
1950-75.....	0.4	-3.4	-3.8	-4.1	-1.2	
1970-75.....	1.0	5.9	6.9	7.0	6.9	

1/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 12. BITUMINOUS COAL AND LIGNITE MINING SIC 121  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	27.9	22.8	21.0	55.8
1947.....	31.1	34.1	31.8	70.6
1948.....	30.9	31.7	29.6	63.6
1949.....	32.3	29.8	24.2	47.0
1950.....	35.4	32.6	30.7	58.8
1951.....	35.1	33.5	31.4	61.8
1952.....	37.1	33.3	31.5	55.9
1953.....	40.0	37.1	35.2	60.8
1954.....	46.4	40.4	38.7	57.6
1955.....	50.3	50.1	48.1	69.8
1956.....	52.4	51.6	50.0	66.9
1957.....	53.9	50.6	49.5	59.2
1958.....	60.2	50.1	50.4	48.5
1959.....	61.6	54.4	55.0	50.3
1960.....	66.2	58.0	58.6	54.1
1961.....	73.8	64.3	64.9	60.7
1962.....	78.5	70.8	70.7	71.0
1963.....	82.3	78.2	77.2	85.1
1964.....	87.9	84.4	83.4	91.4
1965.....	93.5	92.0	91.6	95.1
1966.....	98.4	97.9	98.1	96.9
1967.....	100.0	100.0	100.0	100.0
1968.....	102.9	101.0	101.8	96.0
1969.....	101.6	99.5	100.0	96.0
1970.....	97.2	97.4	97.7	95.8
1971.....	91.5	87.2	91.7	64.8
1972.....	83.9	82.8	84.8	70.8
1973.....	83.4	81.2	82.3	74.7
1974.....	82.1	76.0	77.5	66.7
1975 <u>2/</u> .....	73.7	70.2	71.5	62.1
	AVERAGE ANNUAL RATES (PERCENT)			
1950-75.....	4.1	4.4	4.7	1.5
1970-75.....	-4.8	-5.7	-5.8	-5.6

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 13. BITUMINOUS COAL AND LIGNITE MINING SIC 121  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	71.7	257.0	314.2	340.7	128.4
1947.....	114.4	367.8	335.5	360.3	162.1
1948.....	108.8	352.3	342.7	367.0	171.0
1949.....	79.4	245.5	308.0	327.8	169.1
1950.....	93.7	264.5	287.2	305.3	159.4
1951.....	96.9	276.1	289.4	308.3	156.8
1952.....	84.7	228.6	254.1	268.8	151.6
1953.....	82.9	207.3	223.3	235.6	136.3
1954.....	71.0	153.1	175.9	183.5	123.3
1955.....	84.7	168.3	169.2	176.0	121.4
1956.....	91.6	174.8	177.5	183.2	136.9
1957.....	90.5	168.0	179.0	182.7	153.0
1958.....	75.7	125.7	151.0	150.2	156.2
1959.....	75.9	123.2	139.6	138.0	151.0
1960.....	76.4	115.4	131.8	130.3	141.3
1961.....	74.0	100.3	115.0	114.0	122.0
1962.....	77.5	98.7	109.4	109.6	109.1
1963.....	84.1	102.2	107.6	108.9	98.8
1964.....	89.0	101.3	105.5	106.7	97.4
1965.....	93.3	99.8	101.4	101.9	98.1
1966.....	96.9	98.5	99.0	98.8	100.0
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	97.8	95.0	96.8	96.1	101.9
1969.....	99.7	98.1	100.2	99.7	103.9
1970.....	106.3	109.4	109.1	108.8	111.0
1971.....	96.6	105.6	110.8	105.3	149.0
1972.....	103.2	123.0	124.7	121.7	145.8
1973.....	102.6	123.0	126.3	124.7	137.4
1974.....	104.6	127.4	137.7	135.0	156.8
1975 <u>1</u> /.....	110.9	150.5	158.0	155.1	178.7
AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	1.1	-2.9	-3.2	-3.5	-0.5
1970-75.....	1.3	6.4	7.5	7.5	7.3

1/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 14. NONMETALLIC MINERALS-EXCEPT FUELS SIC 14  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1954.....	58.4	63.5	58.9	91.4
1955.....	62.8	68.0	63.5	94.0
1956.....	65.5	70.0	65.9	92.1
1957.....	70.5	72.2	69.2	87.3
1958.....	73.0	72.4	70.4	81.2
1959.....	74.4	75.9	73.5	86.7
1960.....	74.7	74.5	72.6	83.1
1961.....	78.1	77.9	76.0	85.7
1962.....	81.9	82.5	80.3	92.0
1963.....	85.7	86.5	84.5	94.8
1964.....	91.1	92.5	90.8	99.0
1965.....	93.7	96.3	94.5	103.9
1966.....	98.9	101.4	100.1	106.1
1967.....	100.0	100.0	100.0	100.0
1968.....	108.7	107.9	108.1	106.7
1969.....	111.6	112.6	112.9	111.2
1970.....	116.1	114.5	115.2	111.4
1971.....	117.2	116.0	117.0	112.2
1972.....	121.7	120.2	121.4	115.3
1973.....	127.6	126.6	129.0	117.7
1974.....	128.6	124.1	127.9	111.5
1975 <u>2/</u> .....	123.0	112.9	118.9	94.7
	AVERAGE ANNUAL RATES (PERCENT)			
1954-75.....	3.9	3.4	3.9	1.4
1970-75.....	1.8	0.5	1.4	-2.3

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 15. NONMETALLIC MINERALS-EXCEPT FUELS SIC 14  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1954.....	60.3	103.3	94.9	102.4	66.0
1955.....	65.8	104.8	96.7	103.6	70.0
1956.....	71.2	108.7	101.7	108.0	77.3
1957.....	72.1	102.2	99.8	104.2	82.6
1958.....	71.7	98.2	99.1	101.9	88.3
1959.....	78.6	105.7	103.6	106.9	90.7
1960.....	79.0	105.7	106.0	108.8	95.1
1961.....	80.5	103.1	103.4	105.9	93.9
1962.....	84.2	102.8	102.1	104.8	91.5
1963.....	87.5	102.1	101.2	103.6	92.3
1964.....	92.2	101.2	99.7	101.5	93.1
1965.....	98.0	104.6	101.8	103.7	94.3
1966.....	103.6	104.7	102.2	103.5	97.6
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	105.0	96.6	97.3	97.1	98.4
1969.....	108.5	97.2	96.4	96.1	97.6
1970.....	109.6	94.4	95.7	95.1	98.4
1971.....	109.5	93.4	94.4	93.6	97.6
1972.....	114.4	94.0	95.2	94.2	99.2
1973.....	125.3	98.2	99.0	97.1	106.5
1974.....	125.6	97.7	101.2	98.2	112.6
1975 <u>1/</u> .....	109.7	89.2	97.2	92.3	115.8
AVERAGE ANNUAL RATES (PERCENT)					
1954-75.....	3.3	-0.6	-0.1	-0.6	1.8
1970-75.....	1.5	-0.3	0.9	0.1	3.8

1/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 16. CRUSHED AND BROKEN STONE SIC 142  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	73.9	71.8	71.0	75.9
1959.....	75.9	75.5	74.9	79.2
1960.....	76.7	74.1	73.6	76.7
1961.....	78.2	76.4	75.8	79.5
1962.....	81.4	80.9	79.8	86.4
1963.....	84.7	84.2	83.7	87.0
1964.....	91.5	90.5	90.2	92.5
1965.....	94.4	96.7	95.8	102.2
1966.....	99.8	101.8	101.0	105.6
1967.....	100.0	100.0	100.0	100.0
1968.....	109.7	108.4	109.1	105.2
1969.....	112.4	112.9	113.6	109.8
1970.....	118.2	114.4	116.8	104.0
1971.....	121.9	118.0	121.3	103.8
1972.....	128.2	124.5	127.6	110.9
1973.....	140.1	136.5	142.4	113.3
1974.....	137.3	130.1	137.3	103.3
1975 <u>2/</u> .....	130.0	113.7	122.2	84.8
	AVERAGE ANNUAL RATES (PERCENT)			
1958-75.....	4.1	3.8	4.2	1.9
1970-75.....	2.7	1.0	2.0	-2.9

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employee.

2/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 17. CRUSHED AND BROKEN STONE SIC 142  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	69.6	94.2	97.0	98.0	91.7
1959.....	75.9	100.0	100.5	101.4	95.8
1960.....	78.8	102.8	106.3	107.0	102.8
1961.....	77.3	98.9	101.2	102.0	97.2
1962.....	81.6	100.3	100.9	102.2	94.4
1963.....	84.6	99.9	100.5	101.1	97.2
1964.....	89.9	98.3	99.3	99.7	97.2
1965.....	97.9	103.7	101.2	102.2	95.8
1966.....	104.1	104.3	102.3	103.1	98.6
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	106.7	97.3	98.4	97.8	101.4
1969.....	111.3	99.0	98.6	98.0	101.4
1970.....	112.6	95.3	98.4	96.4	108.3
1971.....	113.9	93.4	96.5	93.9	109.7
1972.....	120.1	93.7	96.5	94.1	108.3
1973.....	138.4	98.8	101.4	97.2	122.2
1974.....	136.2	99.2	104.7	99.2	131.9
1975 <u>1</u> /.....	111.9	86.1	98.4	91.6	131.9
AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	3.7	-0.4	-0.1	-0.5	1.8
1970-75.....	1.9	-0.8	0.8	-0.2	4.9

1/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 18. CANNING AND PRESERVING SIC 203  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	46.3	(3/)	(3/)	44.9	(3/)
1947.....	54.5	53.4	( 67.1)	55.4	53.6	71.0
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	60.0	59.5	( 64.1)	55.8	54.4	67.2
1950.....	62.9	64.1	( 55.8)	59.6	59.8	58.4
1951.....	64.8	64.1	( 69.7)	64.2	63.1	73.2
1952.....	64.8	64.9	( 64.5)	63.1	62.5	67.8
1953.....	70.4	70.3	( 70.6)	67.7	67.0	73.5
1954.....	71.8	71.4	( 74.4)	70.7	69.8	77.4
1955.....	73.5	73.2	( 75.1)	70.7	69.8	77.8
1956.....	79.2	79.1	( 79.4)	77.6	76.9	82.5
1957.....	74.9	78.9	( 55.3)	73.9	77.3	57.4
1958.....	74.1	75.1	( 67.5)	73.2	73.7	69.9
1959.....	74.2	75.0	( 69.3)	74.5	74.9	71.8
1960.....	79.5	80.0	( 76.4)	80.4	80.8	78.2
1961.....	81.9	82.1	( 80.2)	81.7	81.8	81.0
1962.....	85.4	86.0	( 84.5)	86.7	86.9	84.9
1963.....	89.3	90.0	( 84.1)	87.4	87.8	84.3
1964.....	92.1	93.3	( 84.7)	91.2	92.2	85.3
1965.....	95.4	96.5	( 88.2)	94.7	95.7	88.6
1966.....	94.4	96.0	( 88.3)	93.9	94.7	88.3
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.5	102.6	(101.6)	99.4	99.8	96.9
1969.....	104.4	104.7	(101.9)	102.1	102.7	98.4
1970.....	108.2	109.9	( 97.6)	105.4	107.1	95.5
1971.....	112.0	115.1	( 98.4)	111.1	113.2	98.0
1972.....	114.8	117.2	(100.4)	113.1	115.0	101.5
1973.....	125.6	129.3	(104.5)	123.4	126.4	106.2
1974 <sup>4/</sup> .....	122.9	125.4	(108.1)	121.3	123.1	110.0
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	2.8	2.9	( 2.4)	2.9	3.0	2.1
1970-74.....	3.7	3.9	( 2.7)	3.9	4.0	3.7

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the National Cannery Association; U.S. Department of Agriculture; the Bureau of Labor Statistics; the Bureau of Competitive Assessment and Business Policy, the National Oceanic and Atmospheric Administration, and the Bureau of the Census, U.S. Department of Commerce. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 19. CANNING AND PRESERVING SIC 203  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	29.6	(2/)	64.0	(2/)	(2/)	65.9	(2/)
1947.....	47.3	86.3	88.6	( 70.5)	85.4	88.3	66.6
1948.....	46.8	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	48.4	80.6	81.4	( 75.5)	86.7	89.0	72.0
1950.....	51.7	82.2	80.7	( 92.6)	86.8	86.5	88.5
1951.....	58.7	90.6	91.6	( 84.2)	91.4	93.1	80.2
1952.....	56.4	87.0	86.9	( 87.5)	89.4	90.3	83.2
1953.....	59.2	84.1	84.2	( 83.9)	87.4	88.4	80.5
1954.....	59.7	83.1	83.6	( 80.2)	84.4	85.5	77.1
1955.....	62.4	84.9	85.2	( 83.1)	88.2	89.4	80.2
1956.....	69.8	88.1	88.2	( 87.9)	90.0	90.8	84.6
1957.....	66.8	89.2	84.7	(120.7)	90.4	86.4	116.3
1958.....	65.9	88.9	87.7	( 97.7)	90.0	89.4	94.3
1959.....	67.1	90.4	89.5	( 96.8)	90.1	89.6	93.4
1960.....	74.0	93.1	92.5	( 96.9)	92.0	91.6	94.6
1961.....	75.9	92.7	92.4	( 94.6)	92.9	92.8	93.7
1962.....	79.3	92.4	92.2	( 93.8)	91.5	91.3	93.4
1963.....	82.3	92.2	91.4	( 97.9)	94.2	93.7	97.6
1964.....	86.3	93.7	92.5	(101.9)	94.6	93.6	101.2
1965.....	91.5	95.9	94.8	(103.7)	96.6	95.6	103.3
1966.....	93.6	98.6	97.5	(106.0)	99.7	98.8	106.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.4	99.9	99.8	(100.8)	103.0	102.6	105.7
1969.....	106.4	101.9	101.6	(104.4)	104.2	103.6	108.1
1970.....	106.7	98.6	97.1	(109.3)	101.2	99.6	111.7
1971.....	113.1	100.4	98.3	(114.9)	101.8	99.9	115.4
1972.....	119.3	103.9	101.8	(118.8)	105.5	103.7	117.5
1973.....	130.6	104.0	101.0	(125.0)	105.8	103.3	123.0
1974 <sup>3/</sup> .....	126.5	102.9	100.9	(117.0)	104.3	102.8	115.0
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	3.8	0.9	0.9	( 1.4)	0.9	0.8	1.6
1970-74.....	5.0	1.2	1.0	( 2.2)	1.0	1.0	1.2

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the National Cannery Association; U.S. Department of Agriculture; the Bureau of Labor Statistics; the Bureau of Competitive Assessment and Business Policy, the National Oceanic and Atmospheric Administration, and the Bureau of the Census, U.S. Department of Commerce. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 20. GRAIN MILL PRODUCTS SIC 204  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	83.4	83.3	( 83.5)	84.5	85.0	83.5
1964.....	88.0	88.2	( 87.3)	89.5	90.1	87.9
1965.....	90.3	90.6	( 89.3)	91.8	92.9	89.6
1966.....	94.2	95.0	( 92.0)	95.4	96.9	91.9
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.4	104.2	(108.6)	103.9	104.1	103.4
1969.....	107.2	106.5	(109.3)	106.5	106.9	105.3
1970.....	109.2	108.3	(111.4)	107.2	106.6	108.7
1971.....	114.1	113.4	(116.1)	111.6	110.0	115.6
1972.....	116.9	115.9	(119.2)	117.6	116.5	120.3
1973.....	115.8	113.8	(121.6)	119.7	118.1	123.1
1974.....	124.3	123.9	(124.9)	123.2	121.7	126.6
1975 <sup>3/</sup> .....	130.6	131.2	(128.8)	129.1	128.6	130.4
AVERAGE ANNUAL RATES (PERCENT)						
1963-75.....	3.6	3.5	( 3.8)	3.4	3.2	3.9
1970-75.....	3.3	3.5	( 2.8)	3.6	3.7	3.5

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census; Agriculture Marketing Service, U.S. Department of Agriculture; the Rice Millers' Association; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 21. GRAIN MILL PRODUCTS SIC 204  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	85.5	102.5	102.6	(102.4)	101.2	100.6	102.4
1964.....	88.4	100.5	100.2	(101.3)	98.8	98.1	100.6
1965.....	88.8	98.3	98.0	( 99.4)	96.7	95.6	99.1
1966.....	92.5	98.2	97.4	(100.5)	97.0	95.5	100.6
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.2	97.0	98.1	( 94.1)	98.4	98.2	98.8
1969.....	106.9	99.7	100.4	( 97.8)	100.4	100.0	101.5
1970.....	108.4	99.3	100.1	( 97.3)	101.1	101.7	99.7
1971.....	107.7	94.4	95.0	( 92.8)	96.5	97.9	93.2
1972.....	117.1	100.2	101.0	( 98.2)	99.6	100.5	97.3
1973.....	118.1	102.0	103.8	( 97.1)	98.7	100.0	95.9
1974.....	125.5	101.0	101.3	(100.5)	101.9	103.1	99.1
1975 <u>2/</u> .....	131.6	100.8	100.3	(102.2)	101.9	102.3	100.9
AVERAGE ANNUAL RATES (PERCENT)							
1963-75.....	3.6	0.0	0.1	( -0.2)	0.2	0.4	-0.3
1970-75.....	4.2	0.8	0.7	( 1.4)	0.6	0.5	0.7

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output based on data from the Bureau of the Census; Agriculture Marketing Service, U.S. Department of Agriculture; the Rice Millers' Association; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 22. FLOUR AND OTHER GRAIN MILL PRODUCTS SIC 2041  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	53.1	(3/)	(3/)	49.5	(3/)
1947.....	52.0	48.5	( 67.0)	56.5	52.4	70.9
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	48.0	46.1	( 55.5)	48.6	45.7	58.3
1950.....	49.1	47.5	( 55.3)	48.7	45.9	57.9
1951.....	48.8	47.0	( 55.9)	49.5	46.7	58.7
1952.....	47.7	46.4	( 57.9)	49.4	47.3	55.7
1953.....	51.6	49.2	( 60.6)	53.2	50.2	63.3
1954.....	56.9	56.3	( 59.1)	57.5	56.1	61.6
1955.....	59.3	59.1	( 60.0)	59.3	58.3	62.1
1956.....	62.3	62.1	( 63.5)	62.2	60.8	66.0
1957.....	67.7	67.5	( 68.4)	67.4	66.2	71.0
1958.....	69.0	70.0	( 66.3)	67.5	67.0	68.8
1959.....	66.7	66.7	( 66.7)	67.2	66.4	69.1
1960.....	70.0	70.4	( 68.8)	71.6	72.0	70.5
1961.....	72.8	72.1	( 75.4)	74.4	73.7	76.3
1962.....	74.9	73.4	( 80.6)	77.2	75.8	80.9
1963.....	84.2	82.5	( 90.7)	87.3	85.9	91.1
1964.....	88.7	87.5	( 92.8)	91.1	90.1	93.6
1965.....	91.3	90.7	( 93.7)	92.3	91.7	94.1
1966.....	96.9	95.6	(101.7)	98.0	96.8	101.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.7	103.9	(112.2)	105.0	104.2	107.1
1969.....	103.3	102.2	(107.0)	102.2	101.7	103.3
1970.....	108.5	108.1	(109.6)	107.6	107.7	107.2
1971.....	110.0	108.7	(114.1)	109.0	107.3	113.7
1972.....	114.3	112.2	(121.8)	115.8	113.1	123.3
1973.....	111.9	109.1	(121.6)	112.5	108.7	123.7
1974.....	116.4	114.3	(123.3)	113.9	110.1	125.3
1975 <sup>4/</sup> .....	121.2	119.0	(128.9)	117.9	113.4	131.2
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	4.0	4.1	( 3.9)	3.9	4.0	3.6
1970-75.....	2.0	1.7	( 3.0)	1.6	0.9	3.8

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 23. FLOUR AND OTHER GRAIN MILL PRODUCTS SIC 2041  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	81.5	(2/)	153.4	(2/)	(2/)	164.6	(2/)
1947.....	109.2	210.2	225.0	(163.1)	193.2	208.3	154.0
1948.....	99.7	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	85.0	177.1	184.5	(153.2)	174.8	185.9	145.9
1950.....	82.0	166.9	172.7	(148.3)	168.4	178.6	141.7
1951.....	84.0	172.2	178.9	(150.2)	169.6	179.9	143.0
1952.....	83.8	175.5	180.7	(158.3)	169.6	177.1	150.5
1953.....	81.3	157.7	165.2	(134.1)	152.7	162.1	128.4
1954.....	81.2	142.7	144.3	(137.5)	141.3	144.8	131.9
1955.....	83.4	140.7	141.2	(139.0)	140.6	143.0	134.2
1956.....	84.9	136.2	136.8	(133.7)	136.5	139.6	128.6
1957.....	89.1	131.7	132.0	(130.2)	132.2	134.6	125.5
1958.....	92.9	134.7	132.8	(140.1)	137.6	138.6	135.1
1959.....	93.4	140.1	140.1	(140.1)	139.0	140.6	135.2
1960.....	95.1	135.9	135.0	(138.3)	132.8	132.0	134.8
1961.....	96.4	132.4	133.7	(127.8)	129.6	130.8	126.4
1962.....	96.7	129.1	131.8	(120.0)	125.3	127.6	119.5
1963.....	95.4	113.3	115.7	(105.2)	109.3	111.0	104.7
1964.....	97.2	109.6	111.1	(104.7)	106.7	107.9	103.8
1965.....	93.4	102.3	103.0	( 99.7)	101.2	101.9	99.3
1966.....	96.0	99.1	100.4	( 94.4)	98.0	99.2	94.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	101.4	95.9	97.6	( 90.4)	96.6	97.3	94.7
1969.....	99.7	96.5	97.6	( 93.2)	97.6	98.0	96.5
1970.....	99.7	91.9	92.2	( 91.0)	92.7	92.6	93.0
1971.....	95.7	87.0	88.0	( 83.9)	87.8	89.2	84.2
1972.....	90.9	79.5	81.0	( 74.6)	78.5	80.4	73.7
1973.....	93.3	83.4	85.5	( 76.7)	82.9	85.8	75.4
1974.....	96.7	83.1	84.6	( 78.4)	84.9	87.8	77.2
1975 <u>3/</u> .....	98.9	81.6	83.1	( 76.7)	83.9	87.2	75.4
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	0.8	-3.1	-3.2	( -3.0)	-3.0	-3.1	-2.8
1970-75.....	( <u>4/</u> )	-1.9	-1.7	( -2.9)	-1.5	-0.8	-3.6

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Not available.

3/ Preliminary.

4/ Less than .05 percent.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 24. CEREAL BREAKFAST FOODS SIC 2043  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	91.5	91.8	( 90.1)	91.5	91.8	89.8
1964.....	93.5	92.9	( 96.6)	94.6	93.9	98.6
1965.....	95.7	95.2	( 98.3)	95.7	95.2	98.0
1966.....	97.2	96.5	(100.6)	98.8	98.5	100.3
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.1	104.1	(103.8)	105.5	106.9	98.5
1969.....	102.6	102.8	(101.8)	105.2	106.6	99.2
1970.....	106.4	106.0	(108.3)	107.2	107.7	105.5
1971.....	106.7	106.8	(106.2)	108.9	109.4	106.5
1972.....	112.8	112.4	(114.4)	113.7	113.5	114.7
1973.....	111.0	108.9	(123.5)	118.0	116.3	126.7
1974 <u>3/</u> .....	105.3	104.0	(113.0)	109.4	108.4	113.8
AVERAGE ANNUAL RATES (PERCENT)						
1963-74.....	1.7	1.6	( 2.2)	2.1	2.0	2.3
1970-74.....	0.2	-0.2	( 2.4)	1.2	0.8	3.3

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 25. CEREAL BREAKFAST FOODS SIC 2043  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	85.5	93.4	93.1	( 94.9)	93.4	93.1	95.2
1964.....	89.2	95.4	96.0	( 92.3)	94.3	95.0	90.5
1965.....	93.3	97.5	98.0	( 94.9)	97.5	98.0	95.2
1966.....	95.5	98.3	99.0	( 94.9)	96.7	97.0	95.2
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	98.5	94.6	94.6	( 94.9)	93.4	92.1	100.0
1969.....	99.2	96.7	96.5	( 97.4)	94.3	93.1	100.0
1970.....	105.5	99.2	99.5	( 97.4)	98.4	98.0	100.0
1971.....	111.6	104.6	104.5	(105.1)	102.5	102.0	104.8
1972.....	120.2	106.6	106.9	(105.1)	105.7	105.9	104.8
1973 .....	126.7	114.1	116.3	(102.6)	107.4	108.9	100.0
1974 <sup>2/</sup> .....	124.6	118.3	119.8	(110.3)	113.9	114.9	109.5
AVERAGE ANNUAL RATES (PERCENT)							
1963-74.....	3.6	1.8	1.9	( 1.3)	1.5	1.5	1.3
1970-74.....	4.7	4.5	4.9	( 2.3)	3.5	3.9	1.4

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 26. RICE MILLING SIC 2044  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	75.3	75.9	( 73.1)	75.2	77.0	70.0
1964.....	85.9	85.6	( 86.8)	86.8	86.8	86.8
1965.....	90.3	89.5	( 93.3)	93.3	93.3	93.3
1966.....	97.3	98.2	( 94.1)	98.8	100.3	94.1
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.2	107.6	(110.5)	104.6	104.6	104.6
1969.....	104.7	103.9	(108.1)	102.4	102.4	102.4
1970.....	100.8	105.6	( 86.1)	99.7	106.3	83.1
1971.....	102.2	104.0	( 96.1)	100.6	104.0	91.0
1972.....	115.3	117.4	(107.7)	113.1	114.8	107.7
1973.....	100.3	102.5	( 92.6)	99.7	102.2	92.6
1974 <sup>3/</sup> .....	115.2	113.3	(111.8)	105.4	100.6	122.3
AVERAGE ANNUAL RATES (PERCENT)						
1963-74.....	2.8	3.0	( 2.1)	2.2	2.2	2.5
1970-74.....	2.5	1.3	( 5.0)	1.0	-1.3	8.2

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census; Agriculture Marketing Service, U.S. Department of Agriculture; the Rice Millers' Association; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 27. RICE MILLING SIC 2044  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	77.0	102.2	101.4	(105.3)	102.4	100.0	110.0
1964.....	86.8	101.1	101.4	(100.0)	100.0	100.0	100.0
1965.....	93.3	103.3	104.2	(100.0)	100.0	100.0	100.0
1966.....	94.1	96.7	95.8	(100.0)	95.2	93.8	100.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.6	96.7	97.2	( 94.7)	100.0	100.0	100.0
1969.....	102.4	97.8	98.6	( 94.7)	100.0	100.0	100.0
1970.....	99.7	98.9	94.4	(115.8)	100.0	93.8	120.0
1971.....	91.0	89.0	87.5	( 94.7)	90.5	87.5	100.0
1972.....	107.7	93.4	91.7	(100.0)	95.2	93.8	100.0
1973.....	92.6	92.3	90.3	(100.0)	92.9	90.6	100.0
1974 <sup>2/</sup> .....	110.1	95.6	97.2	( 98.5)	104.5	109.4	90.0
AVERAGE ANNUAL RATES (PERCENT)							
1963-74.....	1.9	-0.9	-1.0	( -0.2)	-0.4	-0.3	-0.6
1970-74.....	2.2	-0.3	0.9	( -2.7)	1.1	3.5	-5.6

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output based on data from the Bureau of the Census; Agriculture Marketing Service, U.S. Department of Agriculture; the Rice Millers' Association; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 28. BLENDED AND PREPARED FLOUR SIC 2045  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	81.3	83.5	( 75.0)	82.4	85.3	75.3
1964.....	89.2	99.8	( 67.4)	89.8	102.1	67.4
1965.....	91.3	96.0	( 79.7)	92.0	97.1	80.3
1966.....	93.9	98.7	( 81.9)	93.3	98.0	82.5
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	100.1	98.8	(104.4)	100.1	100.6	98.8
1969.....	102.5	102.1	(103.8)	103.8	104.7	101.5
1970.....	106.9	108.4	(102.5)	103.9	105.5	99.7
1971.....	112.1	111.4	(114.3)	110.4	108.4	115.9
1972.....	103.6	104.0	(102.2)	107.5	109.3	102.9
1973.....	103.5	101.1	(111.7)	111.9	110.7	115.0
1974 <u>3/</u> .....	116.4	115.8	(118.7)	117.2	115.5	121.9
AVERAGE ANNUAL RATES (PERCENT)						
1963-74.....	2.6	1.8	( 4.7)	2.8	2.0	4.9
1970-74.....	0.9	0.3	( 2.8)	2.6	2.0	4.0

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 29. BLENDED AND PREPARED FLOUR SIC 2045  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	79.1	97.3	94.7	(105.4)	96.0	92.7	105.0
1964.....	91.0	102.0	91.2	(135.1)	101.3	89.1	135.0
1965.....	88.3	96.7	92.0	(110.8)	96.0	90.9	110.0
1966.....	90.8	96.7	92.0	(110.8)	97.3	92.7	110.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	98.8	98.7	100.0	( 94.6)	98.7	98.2	100.0
1969.....	106.6	104.0	104.4	(102.7)	102.7	101.8	105.0
1970.....	99.7	93.3	92.0	( 97.3)	96.0	94.5	100.0
1971.....	92.7	82.7	83.2	( 81.1)	84.0	85.5	80.0
1972.....	113.2	109.3	108.8	(110.8)	105.3	103.6	110.0
1973.....	120.8	116.7	119.5	(108.1)	108.0	109.1	105.0
1974 <sup>2/</sup> .....	121.9	104.7	105.3	(102.7)	104.0	105.5	100.0
AVERAGE ANNUAL RATES (PERCENT)							
1963-74.....	3.3	0.7	1.4	( -1.3)	0.5	1.3	-1.5
1970-74.....	6.9	5.9	6.5	( 4.0)	4.2	4.7	2.8

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 30. WET CORN MILLING SIC 2046  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	87.0	81.2	(106.1)	89.3	83.6	105.7
1964.....	93.0	87.7	(109.8)	95.9	90.6	111.0
1965.....	92.1	87.8	(105.3)	96.4	92.9	105.4
1966.....	93.5	90.8	(101.5)	95.2	93.0	101.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.7	105.5	(113.5)	105.0	104.0	107.5
1969.....	114.0	111.5	(121.1)	115.4	115.1	115.8
1970.....	106.2	105.3	(108.6)	107.8	108.7	105.6
1971.....	106.9	108.2	(103.8)	104.1	104.6	103.2
1972.....	138.9	139.9	(136.7)	137.3	137.5	137.0
1973.....	123.3	122.8	(124.6)	123.9	122.8	126.3
1974 <u>3/</u> .....	150.6	151.6	(148.4)	150.8	151.0	150.1
AVERAGE ANNUAL RATES (PERCENT)						
1963-74.....	4.4	5.1	( 2.5)	4.0	4.6	2.6
1970-74.....	8.8	8.9	( 8.4)	8.8	8.5	9.5

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 31. WET CORN MILLING SIC 2046  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	83.6	96.1	103.0	( 78.8)	93.6	100.0	79.1
1964.....	85.1	91.5	97.0	( 77.5)	88.7	93.9	76.7
1965.....	88.2	95.8	100.5	( 83.8)	91.5	94.9	83.7
1966.....	93.9	100.4	103.4	( 92.5)	98.6	101.0	93.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.0	97.5	99.5	( 92.5)	100.0	101.0	97.7
1969.....	110.4	96.8	99.0	( 91.2)	95.7	95.9	95.3
1970.....	103.2	97.2	98.0	( 95.0)	95.7	94.9	97.7
1971.....	96.0	89.8	88.7	( 92.5)	92.2	91.8	93.0
1972.....	117.8	84.8	84.7	( 86.7)	85.8	85.7	86.0
1973.....	102.8	83.4	83.7	( 82.5)	83.0	83.7	81.4
1974 <sup>2/</sup> .....	118.7	78.8	78.3	( 80.0)	78.7	78.6	79.1
AVERAGE ANNUAL RATES (PERCENT)							
1963-74.....	2.8	-1.6	-2.2	( 0.3)	-1.2	-1.8	0.2
1970-74.....	3.5	-4.8	-4.9	( -4.5)	-4.8	-4.6	-5.4

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 32. PREPARED FEEDS FOR ANIMALS AND FOWLS SIC 2047, 48  
 INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
 (1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	81.7	83.4	( 78.2)	81.8	83.8	78.3
1964.....	85.3	86.6	( 82.6)	86.3	88.1	83.3
1965.....	88.2	90.3	( 83.9)	89.6	92.8	84.3
1966.....	92.4	95.1	( 87.1)	93.7	97.6	87.1
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.2	104.0	(107.8)	103.2	103.4	102.8
1969.....	108.8	108.2	(110.2)	106.7	106.8	106.3
1970.....	111.5	109.0	(117.1)	108.0	104.8	114.4
1971.....	119.9	118.2	(123.8)	115.9	112.3	123.4
1972.....	115.9	113.9	(120.6)	117.0	114.5	122.1
1973.....	118.6	116.1	(124.4)	123.3	121.8	126.2
1974 <sup>3/</sup> .....	127.5	128.1	(126.3)	126.1	125.2	128.1
AVERAGE ANNUAL RATES (PERCENT)						
1963-74.....	4.1	3.7	( 4.9)	4.0	3.4	5.0
1970-74.....	2.6	3.1	( 1.6)	3.8	4.5	2.5

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 33. PREPARED FEEDS FOR ANIMALS AND FOWLS SIC 2047, 48  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	83.8	102.6	100.5	(107.2)	102.4	100.0	107.0
1964.....	85.5	100.2	98.7	(103.5)	99.1	97.1	102.7
1965.....	86.1	97.6	95.4	(102.6)	96.1	92.8	102.1
1966.....	90.3	97.7	95.0	(103.7)	96.4	92.5	103.7
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.8	97.7	98.8	( 95.4)	99.6	99.4	100.0
1969.....	110.9	101.9	102.5	(100.6)	103.9	103.8	104.3
1970.....	115.7	103.8	106.1	( 98.8)	107.1	110.4	101.1
1971.....	118.1	98.5	99.9	( 95.4)	101.9	105.2	95.7
1972.....	128.0	110.4	112.4	(106.1)	109.4	111.8	104.8
1973.....	130.9	110.4	112.7	(105.2)	106.2	107.5	103.7
1974 <sup>2/</sup> .....	140.4	110.1	109.6	(111.2)	111.3	112.1	109.6
AVERAGE ANNUAL RATES (PERCENT)							
1963-74.....	5.1	1.0	1.3	( 0.1)	1.0	1.6	0.1
1970-74.....	5.0	2.3	1.9	( 3.4)	1.2	0.5	2.4

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 34. BAKERY PRODUCTS SIC 205  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	66.3	59.6	( 81.1)	71.2	64.0	85.9
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	65.8	61.3	( 75.1)	69.6	64.5	78.8
1950.....	66.4	62.0	( 75.0)	69.8	64.9	78.7
1951.....	65.8	62.7	( 71.6)	68.8	65.2	75.2
1952.....	67.6	65.4	( 71.5)	70.4	67.6	75.2
1953.....	71.3	67.9	( 77.5)	73.8	69.7	80.8
1954.....	70.5	70.0	( 71.1)	72.0	70.7	74.1
1955.....	71.1	71.0	( 71.3)	72.6	71.7	73.9
1956.....	72.5	73.1	( 71.4)	73.3	72.8	74.3
1957.....	74.7	77.3	( 70.7)	75.4	76.6	73.5
1958.....	77.3	79.0	( 74.6)	78.9	79.9	77.4
1959.....	77.2	79.5	( 73.8)	78.8	80.4	76.5
1960.....	77.7	79.8	( 74.3)	79.8	82.3	76.3
1961.....	79.0	81.0	( 75.7)	80.6	83.4	76.6
1962.....	81.1	84.1	( 76.7)	82.7	86.9	77.1
1963.....	87.3	89.3	( 84.0)	88.4	91.1	84.6
1964.....	90.1	91.8	( 87.4)	93.1	96.6	88.1
1965.....	93.5	95.1	( 90.8)	94.3	96.4	91.2
1966.....	94.6	95.6	( 92.7)	96.0	98.1	92.9
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.0	101.2	(103.5)	103.3	102.7	104.0
1969.....	102.3	101.9	(103.0)	102.9	101.6	104.9
1970.....	105.7	105.1	(106.7)	106.8	104.6	110.0
1971.....	108.1	109.9	(105.0)	109.8	109.4	110.4
1972.....	113.7	116.0	(109.9)	116.1	115.3	117.3
1973.....	113.2	115.1	(110.0)	115.7	114.4	117.9
1974.....	113.0	119.4	(103.4)	113.2	115.1	110.8
1975 <sup>4/</sup> .....	120.3	127.7	(109.3)	120.0	122.0	117.1
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	2.5	2.8	( 2.1)	2.4	2.6	2.1
1970-75.....	2.2	3.5	( 0.2)	1.9	2.6	0.9

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 35. BAKERY PRODUCTS SIC 205  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	75.5	113.9	126.6	( 93.1)	106.1	118.0	87.9
1948.....	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	77.1	117.1	125.8	(102.7)	110.8	119.5	97.8
1950.....	77.8	117.2	125.4	(103.8)	111.5	119.8	98.9
1951.....	79.9	121.4	127.5	(111.6)	116.1	122.5	106.3
1952.....	83.9	124.1	128.3	(117.4)	119.1	124.1	111.6
1953.....	80.1	112.4	117.9	(103.4)	108.6	114.9	99.1
1954.....	79.7	113.1	113.9	(112.1)	110.7	112.8	107.5
1955.....	81.5	114.6	114.8	(114.3)	112.3	113.7	110.3
1956.....	84.7	116.8	115.9	(118.7)	115.5	116.4	114.0
1957.....	87.0	116.4	112.5	(123.0)	115.4	113.6	118.4
1958.....	90.3	116.8	114.3	(121.1)	114.4	113.0	116.6
1959.....	90.9	117.7	114.4	(123.1)	115.3	113.1	118.8
1960.....	91.8	118.1	115.0	(123.5)	115.0	111.6	120.3
1961.....	91.0	115.2	112.3	(120.2)	112.9	109.1	118.8
1962.....	92.9	114.5	110.5	(121.2)	112.3	106.9	120.5
1963.....	93.7	107.3	104.9	(111.5)	106.0	102.8	110.8
1964.....	97.4	108.1	106.1	(111.5)	104.6	100.8	110.5
1965.....	99.1	106.0	104.2	(109.2)	105.1	102.8	108.7
1966.....	99.7	105.4	104.3	(107.5)	103.9	101.6	107.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	100.7	98.7	99.5	( 97.3)	97.5	98.1	96.8
1969.....	103.1	100.8	101.2	(100.1)	100.2	101.5	98.3
1970.....	99.1	93.8	94.3	( 92.9)	92.8	94.7	90.1
1971.....	98.5	91.1	89.6	( 93.8)	89.7	90.0	89.2
1972.....	103.1	90.7	88.9	( 93.8)	88.8	89.4	87.9
1973.....	102.2	90.3	88.8	( 92.9)	88.3	89.3	86.7
1974.....	100.9	89.3	84.5	( 97.6)	89.1	87.7	91.1
1975 <sup>3/</sup> .....	103.6	86.1	81.1	( 94.8)	86.3	84.9	88.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	1.2	-1.3	-1.6	( -0.9)	-1.2	-1.4	-0.9
1970-75.....	0.8	-1.4	-2.6	( 0.6)	-1.1	-1.8	-0.1

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 36. SUGAR SIC 2061,2062,2063  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	42.9	41.0	( 57.4)	45.5	43.2	60.8
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	47.3	45.1	( 63.5)	48.6	45.9	66.7
1950.....	50.7	48.8	( 64.5)	51.2	48.6	67.6
1951.....	47.4	46.0	( 56.4)	46.4	44.4	59.2
1952.....	51.1	50.0	( 58.1)	51.9	50.3	61.1
1953.....	53.0	52.0	( 58.3)	54.1	52.9	60.8
1954.....	58.3	58.2	( 58.6)	58.4	57.8	61.1
1955.....	60.3	60.0	( 61.8)	60.1	59.4	64.0
1956.....	63.5	62.8	( 67.4)	65.6	64.7	70.1
1957.....	62.7	61.8	( 67.7)	64.0	62.8	70.3
1958.....	64.8	64.9	( 63.8)	67.4	67.7	66.2
1959.....	68.4	68.2	( 69.6)	69.7	69.1	72.2
1960.....	72.2	71.9	( 73.3)	74.4	74.2	75.2
1961.....	77.5	77.3	( 78.1)	79.2	79.2	79.0
1962.....	85.2	84.4	( 88.9)	87.1	86.5	89.3
1963.....	86.2	85.9	( 87.4)	87.8	87.8	87.8
1964.....	91.1	90.8	( 92.0)	93.4	93.6	92.8
1965.....	95.3	94.4	( 99.8)	94.4	93.0	100.3
1966.....	99.5	99.9	( 96.2)	97.9	99.5	96.3
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.3	103.5	(108.3)	104.9	104.2	108.3
1969.....	102.1	101.7	(103.9)	100.5	100.0	102.8
1970.....	111.6	110.3	(117.6)	109.8	108.7	115.0
1971.....	110.1	109.6	(112.0)	114.3	114.2	115.1
1972.....	117.4	119.1	(110.8)	120.2	120.6	118.8
1973.....	113.8	114.2	(111.6)	118.0	117.5	120.2
1974.....	109.6	111.9	(100.6)	113.0	114.2	108.3
1975 <u>4/</u> .....	107.3	112.3	( 89.4)	108.1	111.3	96.2
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	3.8	4.0	( 3.0)	3.9	4.0	3.0
1970-75.....	-0.7	0.3	( -4.7)	-0.4	0.3	-3.0

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Not available.

4/ Preliminary.

Source: Output based on data from the Agricultural Stabilization and Conservation Service and Statistical Reporting Service, U.S. Department of Agriculture, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 37. SUGAR SIC 2061,2062,2063  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 1/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	60.1	140.1	146.7	(104.7)	132.0	139.0	98.9
1948.....	54.8	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	58.6	123.9	129.8	( 92.3)	120.6	127.6	87.8
1950.....	65.9	129.9	135.1	(102.1)	128.8	135.5	97.5
1951.....	57.2	120.7	124.3	(101.4)	123.2	128.8	96.6
1952.....	60.9	119.1	121.8	(104.8)	117.3	121.1	99.6
1953.....	64.9	122.5	124.7	(111.3)	119.9	122.7	106.7
1954.....	65.6	112.6	112.8	(112.0)	112.4	113.4	107.4
1955.....	65.0	107.8	108.4	(105.2)	108.1	109.5	101.5
1956.....	68.1	107.3	108.5	(101.1)	103.8	105.3	97.2
1957.....	67.5	107.7	109.3	( 99.7)	105.4	107.4	96.0
1958.....	71.7	110.7	110.5	(112.4)	106.4	105.9	108.3
1959.....	75.5	110.3	110.7	(108.4)	108.3	109.2	104.6
1960.....	77.7	107.6	108.0	(106.0)	104.5	104.7	103.3
1961.....	82.5	106.5	106.7	(105.7)	104.2	104.2	104.4
1962.....	86.3	101.3	102.2	( 97.1)	99.1	99.8	96.6
1963.....	91.0	105.6	105.9	(104.1)	103.6	103.7	103.6
1964.....	98.7	108.4	108.7	(107.3)	105.7	105.5	106.4
1965.....	96.2	100.9	101.9	( 96.4)	101.9	103.4	95.9
1966.....	97.6	98.1	97.7	(101.5)	99.7	98.1	101.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.6	100.3	101.1	( 96.6)	99.7	100.4	96.6
1969.....	102.8	100.7	101.1	( 98.9)	102.3	102.8	100.0
1970.....	109.1	97.8	98.9	( 92.8)	99.4	100.4	94.9
1971.....	109.2	99.2	99.6	( 97.5)	95.5	95.6	94.9
1972.....	114.8	97.8	96.4	(103.6)	95.5	95.2	96.6
1973.....	110.0	96.7	96.3	( 98.6)	93.2	93.6	91.5
1974.....	108.3	98.8	96.8	(107.7)	95.8	94.8	100.0
1975 <u>3/</u> .....	106.0	98.8	94.4	(118.6)	98.1	95.2	110.2
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	2.9	-0.9	-1.1	( -0.1)	-0.9	-1.1	-0.1
1970-75.....	-0.6	0.1	-0.9	( 4.3)	-0.2	-0.9	2.5

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Agricultural Stabilization and Conservation Service and Statistical Reporting Service, U.S. Department of Agriculture, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 38. CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2065  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	47.6	(3/)	(3/)	47.9	(3/)
1947.....	54.6	53.3	( 63.2)	57.6	56.2	67.2
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	52.3	53.2	( 47.9)	54.8	55.7	50.4
1950.....	51.3	54.5	( 39.1)	53.3	56.5	41.1
1951.....	59.2	60.6	( 52.8)	62.6	64.3	55.6
1952.....	58.5	60.8	( 48.5)	62.6	65.4	51.1
1953.....	61.9	62.5	( 58.9)	64.0	64.5	61.6
1954.....	61.9	63.1	( 55.9)	63.4	64.5	58.3
1955.....	63.8	66.8	( 51.4)	65.0	67.9	53.4
1956.....	64.5	68.6	( 48.7)	66.5	70.6	50.7
1957.....	70.0	74.3	( 53.4)	71.3	75.4	55.6
1958.....	73.2	75.7	( 62.0)	74.2	76.4	64.5
1959.....	74.9	77.8	( 62.1)	77.4	80.5	64.5
1960.....	78.3	81.5	( 64.3)	80.8	84.4	66.0
1961.....	78.1	80.9	( 66.0)	80.7	84.0	66.8
1962.....	79.6	82.5	( 67.0)	82.3	86.0	67.4
1963.....	88.0	89.1	( 82.3)	89.0	90.5	82.6
1964.....	89.7	90.8	( 84.4)	90.5	91.6	85.1
1965.....	93.4	93.7	( 92.1)	94.7	95.1	92.6
1966.....	97.2	97.9	( 93.7)	97.2	97.8	93.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.6	105.1	(102.7)	104.5	106.0	97.3
1969.....	97.6	98.4	( 93.7)	98.3	100.1	89.8
1970.....	104.4	107.0	( 92.2)	104.2	107.4	89.6
1971.....	114.6	119.0	( 95.6)	118.0	123.9	94.6
1972.....	128.7	133.1	(109.1)	130.5	135.4	109.6
1973.....	137.3	148.5	( 97.6)	138.7	150.3	98.5
1974.....	149.1	158.8	(111.8)	144.5	152.7	112.9
1975 <u>4/</u> .....	149.3	163.3	(102.5)	146.5	159.0	103.2
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	4.0	4.0	( 3.9)	3.7	3.8	3.6
1970-75.....	7.9	9.2	( 2.6)	7.0	8.0	3.3

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Not available.

4/ Preliminary.

Source: Output based on data from the Bureau of Competitive Assessment and Business Policy, and the Bureau of the Census, U.S. Department of Commerce. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 39. CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2065  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	42.0	(2/)	88.2	(2/)	(2/)	87.7	(2/)
1947.....	64.2	117.5	120.5	(101.6)	111.4	114.3	95.6
1948.....	64.2	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	61.8	118.1	116.1	(129.1)	112.8	110.9	122.6
1950.....	64.1	124.9	117.7	(163.9)	120.2	113.4	156.1
1951.....	62.2	105.1	102.7	(117.8)	99.3	96.8	111.9
1952.....	64.2	109.8	105.6	(132.4)	102.5	98.1	125.6
1953.....	64.4	104.1	103.1	(109.3)	100.7	99.9	104.5
1954.....	62.8	101.5	99.5	(112.4)	99.0	97.3	107.8
1955.....	65.7	103.0	98.4	(127.7)	101.0	96.7	123.0
1956.....	67.9	105.3	99.0	(139.5)	102.1	96.2	133.9
1957.....	70.7	101.0	95.2	(132.3)	99.1	93.8	127.2
1958.....	72.7	99.3	96.0	(117.2)	98.0	95.1	112.8
1959.....	73.8	98.5	94.8	(118.8)	95.3	91.7	114.4
1960.....	76.8	98.1	94.2	(119.5)	95.0	91.0	116.3
1961.....	77.8	99.6	96.2	(117.9)	96.4	92.6	116.4
1962.....	79.7	100.1	96.6	(118.9)	96.8	92.7	118.2
1963.....	83.5	94.9	93.7	(101.5)	93.8	92.3	101.1
1964.....	87.4	97.4	96.3	(103.6)	96.6	95.4	102.7
1965.....	91.0	97.4	97.1	(98.8)	96.1	95.7	98.3
1966.....	95.4	98.1	97.4	(101.8)	98.1	97.5	101.8
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.6	99.0	98.6	(100.9)	99.1	97.7	106.5
1969.....	98.2	100.6	99.8	(104.8)	99.9	98.1	109.3
1970.....	105.4	101.0	98.5	(114.3)	101.2	98.1	117.6
1971.....	111.3	97.1	93.5	(116.4)	94.3	89.8	117.6
1972.....	116.7	90.7	87.7	(107.0)	89.4	86.2	106.5
1973.....	124.0	90.3	83.5	(127.1)	89.4	82.5	125.9
1974.....	129.6	86.9	81.6	(115.9)	89.7	84.9	114.8
1975 <sup>3/</sup> .....	122.3	81.9	74.9	(119.3)	83.5	76.9	118.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	3.1	-0.8	-0.8	( -0.7)	-0.6	-0.6	-0.4
1970-75.....	3.7	-3.9	-5.1	( 1.1)	-3.1	-4.0	0.4

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of Competitive Assessment and Business Policy, and the Bureau of the Census, U.S. Department of Commerce. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 40. MALT LIQUORS SIC 2082  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	33.0	(3/)	(3/)	34.0	(3/)
1947.....	42.0	38.6	( 51.6)	47.7	44.8	54.7
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	46.3	45.3	( 48.4)	49.5	48.7	50.9
1950.....	45.9	46.4	( 44.9)	48.4	49.0	47.0
1951.....	46.7	46.5	( 46.9)	49.5	49.4	49.2
1952.....	48.4	48.1	( 49.1)	50.9	50.5	51.6
1953.....	48.1	48.1	( 48.1)	50.2	50.2	50.1
1954.....	49.4	50.5	( 47.3)	51.0	51.9	49.2
1955.....	51.4	51.9	( 50.3)	52.8	53.0	52.1
1956.....	52.4	53.3	( 50.5)	53.9	54.5	52.4
1957.....	54.1	55.4	( 51.4)	55.1	55.9	53.4
1958.....	59.9	60.8	( 57.8)	60.3	60.4	60.0
1959.....	62.7	62.9	( 62.0)	63.3	62.8	64.3
1960.....	65.2	64.9	( 65.5)	65.0	63.8	67.2
1961.....	68.3	68.2	( 68.5)	68.0	67.2	69.3
1962.....	71.8	71.1	( 73.1)	71.9	71.1	73.5
1963.....	78.9	77.9	( 81.1)	79.0	77.7	81.4
1964.....	84.6	83.9	( 86.0)	84.9	83.7	86.8
1965.....	89.0	88.7	( 89.3)	89.6	89.6	89.6
1966.....	93.7	93.9	( 92.8)	94.6	95.3	92.8
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.3	105.8	(113.9)	107.0	106.2	108.8
1969.....	115.7	114.0	(119.5)	114.6	114.1	115.4
1970.....	119.6	119.4	(119.9)	120.2	121.6	117.3
1971.....	125.1	128.3	(118.8)	125.1	128.6	118.4
1972.....	139.3	141.6	(134.9)	142.7	145.9	136.5
1973.....	153.2	148.6	(163.8)	157.6	153.7	166.3
1974.....	157.2	151.7	(170.5)	163.0	158.5	173.3
1975 <sup>4/</sup> .....	163.1	155.2	(176.8)	168.8	164.1	179.5
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	5.6	5.5	( 5.9)	5.5	5.4	5.6
1970-75.....	6.9	5.5	( 9.6)	7.7	6.4	10.4

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 41. MALT LIQUORS SIC 2082  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	37.2	(2/)	112.8	(2/)	(2/)	109.5	(2/)
1947.....	66.2	157.6	171.6	(128.2)	138.8	147.8	121.0
1948.....	64.3	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	65.5	141.5	144.5	(135.3)	132.4	134.4	128.8
1950.....	66.1	143.9	142.5	(147.3)	136.6	134.8	140.6
1951.....	68.2	146.1	146.6	(145.5)	137.9	138.0	138.5
1952.....	69.5	143.5	144.5	(141.6)	136.6	137.7	134.7
1953.....	71.7	149.1	149.1	(149.2)	142.7	142.9	143.0
1954.....	69.8	141.3	138.3	(147.7)	136.8	134.6	141.9
1955.....	71.4	138.8	137.5	(142.0)	135.3	134.6	137.0
1956.....	72.0	137.4	135.0	(142.7)	133.6	132.1	137.3
1957.....	71.8	132.7	129.5	(139.7)	130.2	128.4	134.5
1958.....	72.6	121.3	119.4	(125.5)	120.3	120.1	121.1
1959.....	75.3	120.1	119.7	(121.4)	119.0	120.0	117.1
1960.....	76.1	116.8	117.2	(116.1)	117.1	119.3	113.2
1961.....	77.7	113.7	114.0	(113.5)	114.3	115.6	112.2
1962.....	79.6	110.8	111.9	(108.9)	110.7	112.0	108.3
1963.....	83.0	105.2	106.6	(102.4)	105.0	106.8	102.0
1964.....	88.1	104.1	105.0	(102.4)	103.8	105.2	101.5
1965.....	90.9	102.1	102.5	(101.8)	101.4	101.5	101.4
1966.....	96.0	102.5	102.2	(103.4)	101.5	100.7	103.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.4	97.3	99.6	( 92.5)	98.5	99.2	96.9
1969.....	110.1	95.2	96.6	( 92.1)	96.1	96.5	95.4
1970.....	115.5	96.6	96.7	( 96.3)	96.1	95.0	98.5
1971.....	119.6	95.6	93.2	(100.7)	95.6	93.0	101.0
1972.....	123.3	88.5	87.1	( 91.4)	86.4	84.5	90.3
1973.....	129.9	84.8	87.4	( 79.3)	82.4	84.5	78.1
1974.....	137.1	87.2	90.4	( 80.4)	84.1	86.5	79.1
1975 <sup>3/</sup> .....	141.1	86.5	90.9	( 79.8)	83.6	86.0	78.6
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	3.1	-2.4	-2.2	( -2.6)	-2.2	-2.2	-2.4
1970-75.....	4.3	-2.5	-1.1	( -4.9)	-3.2	-2.0	-5.6

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 42. BOTTLED AND CANNED SOFT DRINKS SIC 2086  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	86.3	85.8	( 86.8)	88.4	86.0	89.9
1959.....	90.4	90.4	( 90.5)	93.6	93.4	93.7
1960.....	87.3	88.1	( 86.9)	89.4	89.9	89.0
1961.....	90.8	92.2	( 90.1)	91.8	93.0	91.2
1962.....	97.3	99.5	( 96.0)	97.4	99.6	96.0
1963.....	100.3	100.8	(100.2)	101.4	103.2	100.2
1964.....	99.7	101.4	( 98.7)	100.3	103.0	98.7
1965.....	100.2	102.4	( 98.7)	100.7	103.9	98.7
1966.....	101.0	100.0	(101.7)	101.8	101.8	101.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.4	108.9	(106.5)	106.5	106.5	106.5
1969.....	104.6	109.2	(101.7)	104.2	105.7	103.4
1970.....	105.2	113.0	(100.3)	105.8	109.4	103.6
1971.....	111.2	123.0	(104.2)	113.1	119.2	109.6
1972.....	114.2	124.4	(108.0)	117.5	119.8	116.0
1973.....	120.0	130.6	(113.5)	123.1	125.2	121.9
1974.....	121.4	135.0	(113.6)	124.1	127.7	122.0
1975 <u>3/</u> .....	128.2	145.0	(118.6)	130.8	136.8	127.4
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	2.1	2.8	( 1.6)	2.1	2.3	1.9
1970-75.....	3.8	4.6	( 3.3)	4.0	4.0	4.1

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output based on data from the Sales Survey and Statistical Profile of the Soft Drink Industry, National Soft Drink Association, and the Bureau of the Census. Employment and hours based on data from the Bureau of Labor Statistics.

TABLE 43. BOTTLED AND CANNED SOFT DRINKS SIC 2086  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	68.3	79.1	79.6	( 78.7)	77.3	79.4	76.0
1959.....	74.0	81.9	81.9	( 81.8)	79.1	79.2	79.0
1960.....	73.1	83.7	83.0	( 84.1)	81.8	81.3	82.1
1961.....	75.4	83.0	81.8	( 83.7)	82.1	81.1	82.7
1962.....	81.4	83.7	81.8	( 84.8)	83.6	81.7	84.8
1963.....	86.8	86.5	86.1	( 86.6)	85.6	84.1	86.6
1964.....	89.7	90.0	88.5	( 90.9)	89.4	87.1	90.9
1965.....	92.9	92.7	90.7	( 94.1)	92.3	89.4	94.1
1966.....	99.2	98.2	99.2	( 97.5)	97.4	97.4	97.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.9	99.5	98.2	(100.4)	100.4	100.4	100.4
1969.....	107.0	102.3	98.0	(105.2)	102.7	101.2	103.5
1970.....	107.9	102.6	95.5	(107.6)	102.0	98.6	104.2
1971.....	113.8	102.3	92.5	(109.2)	100.6	95.5	103.8
1972.....	116.9	102.4	94.0	(108.2)	99.5	97.6	100.8
1973.....	123.7	103.1	94.7	(109.0)	100.5	98.8	101.5
1974.....	124.6	102.6	92.3	(109.7)	100.4	97.6	102.1
1975 <sup>2/</sup> .....	128.2	100.0	88.4	(108.1)	98.0	93.7	100.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	3.8	1.7	1.0	( 2.2)	1.7	1.5	1.8
1970-75.....	3.5	-0.3	-1.1	( 0.1)	-0.6	-0.5	-0.6

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output based on data from the Sales Survey and Statistical Profile of the Soft Drink Industry, National Soft Drink Association, and the Bureau of the Census. Employment and hours based on data from the Bureau of Labor Statistics.

TABLE 44. TOBACCO PRODUCTS-TOTAL SIC 2111,2121,2131  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	38.6	(3/)	37.1	36.2	46.0
1947.....	50.3	48.2	( 77.6)	51.1	49.0	79.1
1948.....	54.4	52.2	( 82.1)	54.2	52.0	83.7
1949.....	55.8	53.6	( 83.1)	54.5	52.3	83.8
1950.....	60.2	58.1	( 86.0)	58.2	56.0	86.5
1951.....	62.3	60.3	( 84.8)	60.8	58.7	85.5
1952.....	63.9	61.8	( 89.0)	62.9	60.7	89.9
1953.....	62.3	60.4	( 83.6)	61.6	59.7	83.8
1954.....	62.6	60.3	( 89.2)	62.0	59.8	89.2
1955.....	62.4	60.1	( 89.2)	62.2	60.0	88.9
1956.....	66.3	64.1	( 94.1)	65.9	63.6	93.9
1957.....	69.4	67.1	( 96.5)	69.1	66.9	96.3
1958.....	74.6	72.8	( 93.9)	75.1	73.4	93.6
1959.....	78.4	77.0	( 91.1)	79.3	78.1	90.7
1960.....	83.7	82.4	( 96.2)	84.3	83.2	96.0
1961.....	86.6	85.9	( 93.0)	87.9	87.4	92.8
1962.....	89.3	89.1	( 90.6)	90.8	90.8	91.0
1963.....	94.1	93.5	( 99.9)	95.7	95.1	100.3
1964.....	96.4	94.8	(111.3)	99.7	98.4	112.3
1965.....	100.2	99.5	(106.4)	99.4	98.7	106.8
1966.....	99.9	99.2	(106.0)	100.3	99.6	106.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.5	103.4	(104.1)	100.7	100.6	102.1
1969.....	101.9	102.5	( 96.9)	99.9	100.6	94.6
1970.....	104.3	104.4	(103.6)	104.7	105.1	101.2
1971.....	109.7	110.5	(104.5)	108.9	109.7	101.9
1972.....	110.0	111.6	( 98.6)	108.2	109.9	95.9
1973.....	108.1	110.2	( 93.5)	107.1	109.5	91.3
1974.....	112.1	115.1	( 92.4)	108.2	111.0	90.2
1975 <u>4/</u> .....	116.9	120.1	( 96.2)	112.4	115.3	93.9
AVERAGE ANNUAL RATES (PERCENT)						
1950-75.....	2.9	3.2	( 0.6)	2.9	3.2	0.5
1970-75.....	1.8	2.4	( -2.2)	0.9	1.4	-2.2

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Not available.

4/ Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury; the Bureau of the Census; and Agricultural Marketing Service, U.S. Department of Agriculture. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 45. TOBACCO PRODUCTS-TOTAL SIC 2111,2121,2131  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	60.2	(2/)	156.1	(2/)	162.4	166.1	131.0
1947.....	74.2	147.6	154.0	( 95.6)	145.1	151.5	93.8
1948.....	76.9	141.4	147.4	( 93.7)	141.8	147.9	91.9
1949.....	75.5	135.4	140.9	( 90.9)	138.5	144.4	90.1
1950.....	75.8	125.9	130.5	( 88.1)	130.2	135.4	87.6
1951.....	79.1	127.0	131.1	( 93.3)	130.0	134.7	92.5
1952.....	82.2	128.6	133.0	( 92.4)	130.6	135.4	91.4
1953.....	81.9	131.5	135.6	( 98.0)	133.0	137.2	97.7
1954.....	79.7	127.3	132.1	( 89.3)	128.5	133.2	89.3
1955.....	80.4	128.9	133.7	( 90.1)	129.2	133.9	90.4
1956.....	81.0	122.1	126.4	( 86.1)	122.9	127.4	86.3
1957.....	83.5	120.3	124.5	( 86.5)	120.9	124.9	86.7
1958.....	88.3	118.3	121.3	( 94.0)	117.5	120.3	94.3
1959.....	93.5	119.3	121.4	(102.6)	117.9	119.7	103.1
1960.....	95.8	114.4	116.3	( 99.6)	113.7	115.2	99.8
1961.....	95.3	110.0	110.9	(102.5)	108.4	109.1	102.7
1962.....	95.5	107.0	107.2	(105.4)	105.2	105.2	104.9
1963.....	97.6	103.7	104.4	( 97.7)	102.0	102.6	97.3
1964.....	106.0	110.0	111.8	( 95.2)	106.3	107.7	94.4
1965.....	103.2	103.0	103.7	( 97.0)	103.8	104.6	96.6
1966.....	100.5	100.6	101.3	( 94.8)	100.2	100.9	94.8
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.1	98.6	98.7	( 98.1)	101.4	101.5	100.0
1969.....	98.9	97.1	96.5	(102.1)	99.0	98.3	104.6
1970.....	102.7	98.5	98.4	( 99.1)	98.1	97.7	101.5
1971.....	100.4	91.5	90.9	( 96.1)	92.2	91.5	98.5
1972.....	100.3	91.2	89.9	(101.7)	92.7	91.3	104.6
1973.....	103.9	96.1	94.3	(111.1)	97.0	94.9	113.8
1974.....	101.3	90.4	88.0	(109.6)	93.6	91.3	112.3
1975 <u>3/</u> .....	99.7	85.3	83.0	(103.6)	88.7	86.5	106.2
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	1.2	-1.7	-1.9	( 0.6)	-1.6	-1.9	0.8
1970-75.....	-0.2	-2.0	-2.5	( 2.0)	-1.2	-1.6	2.0

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury; Bureau of the Census; and Agricultural Marketing Service, U.S. Department of Agriculture. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 46. CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 2111,31  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	47.7	(3/)	45.1	45.4	42.9
1947.....	70.5	68.5	( 90.3)	72.3	70.2	92.8
1948.....	75.6	73.4	( 96.7)	76.0	73.6	99.6
1949.....	77.6	75.2	(100.0)	76.4	73.9	101.8
1950.....	80.7	78.6	(101.2)	81.0	78.7	102.9
1951.....	84.6	83.1	( 97.7)	85.2	83.5	99.5
1952.....	85.1	83.6	( 97.2)	85.8	84.1	99.1
1953.....	81.6	79.7	( 99.0)	81.3	79.3	100.3
1954.....	78.7	76.3	(101.7)	79.2	76.9	102.6
1955.....	77.8	75.3	(104.3)	79.7	77.2	104.7
1956.....	80.1	77.3	(109.2)	81.8	79.0	110.1
1957.....	82.3	79.6	(110.0)	83.8	81.1	110.8
1958.....	83.5	81.3	(103.8)	85.0	82.9	104.3
1959.....	85.4	84.2	( 96.3)	87.2	86.0	96.9
1960.....	89.2	88.0	( 98.4)	90.4	89.3	98.9
1961.....	91.1	90.4	( 96.8)	92.7	92.2	96.9
1962.....	91.5	91.5	( 90.7)	94.0	94.4	91.2
1963.....	95.5	95.0	( 99.1)	98.0	97.7	99.5
1964.....	94.1	93.5	( 98.0)	96.4	96.0	98.8
1965.....	98.4	98.1	( 99.9)	96.9	96.4	100.4
1966.....	98.5	98.6	( 97.5)	99.2	99.3	97.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.5	103.6	(102.6)	99.1	98.8	101.1
1969.....	99.2	100.1	( 92.7)	96.1	96.9	90.8
1970.....	100.8	101.0	( 99.0)	100.7	101.2	97.0
1971.....	105.6	106.9	( 96.2)	103.9	105.2	94.3
1972.....	106.1	107.7	( 95.1)	103.5	105.1	92.8
1973.....	104.9	107.4	( 88.2)	103.3	105.9	86.4
1974.....	106.7	110.6	( 84.2)	103.3	106.9	82.5
1975 <sup>4/</sup> .....	113.1	116.5	( 91.8)	108.8	112.0	89.9
AVERAGE ANNUAL RATES (PERCENT)						
1950-75.....	1.4	1.6	( -0.5)	1.2	1.5	-0.6
1970-75.....	1.7	2.4	( -2.4)	1.1	1.6	-2.4

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<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury; Bureau of the Census; and Agricultural Marketing Service, U.S. Department of Agriculture. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 47. CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 2111,31  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	46.9	(2/)	98.4	(2/)	103.9	103.2	109.4
1947.....	69.8	99.0	101.9	( 77.3)	96.5	99.4	75.2
1948.....	72.6	96.0	98.9	( 75.1)	95.5	98.6	72.9
1949.....	72.2	93.1	96.0	( 72.2)	94.5	97.7	70.9
1950.....	73.3	90.8	93.3	( 72.4)	90.5	93.1	71.2
1951.....	76.8	90.8	92.4	( 78.6)	90.1	92.0	77.2
1952.....	79.1	93.0	94.6	( 81.4)	92.2	94.0	79.8
1953.....	76.9	94.2	96.5	( 77.7)	94.6	97.0	76.7
1954.....	73.9	93.9	96.8	( 72.7)	93.3	96.1	72.0
1955.....	75.8	97.4	100.6	( 72.7)	95.1	98.2	72.4
1956.....	77.1	96.3	99.7	( 70.6)	94.3	97.6	70.0
1957.....	80.1	97.3	100.6	( 72.8)	95.6	98.8	72.3
1958.....	84.9	101.7	104.4	( 81.8)	99.9	102.4	81.4
1959.....	89.7	105.0	106.5	( 93.1)	102.9	104.3	92.6
1960.....	92.0	103.1	104.5	( 93.5)	101.8	103.0	93.0
1961.....	94.0	103.2	104.0	( 97.1)	101.4	101.9	97.0
1962.....	93.7	102.4	102.4	(103.3)	99.7	99.3	102.7
1963.....	96.5	101.0	101.6	( 97.4)	98.5	98.8	97.0
1964.....	95.6	101.6	102.3	( 97.6)	99.2	99.6	96.8
1965.....	97.3	98.9	99.2	( 97.4)	100.4	100.9	96.9
1966.....	98.5	100.0	99.9	(101.0)	99.3	99.2	100.9
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	101.1	97.7	97.6	( 98.5)	102.0	102.3	100.0
1969.....	98.5	99.3	98.4	(106.3)	102.5	101.7	108.5
1970.....	103.2	102.4	102.2	(104.2)	102.5	102.0	106.4
1971.....	102.3	96.9	95.7	(106.3)	98.5	97.2	108.5
1972.....	106.6	100.5	99.0	(112.1)	103.0	101.4	114.9
1973.....	114.0	108.7	106.1	(129.2)	110.4	107.6	131.9
1974.....	112.3	105.2	101.5	(133.4)	108.7	105.1	136.2
1975 <sup>3/</sup> .....	114.8	101.5	98.5	(125.1)	105.5	102.5	127.7
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	1.8	0.4	0.2	( 2.3)	0.6	0.3	2.4
1970-75.....	2.5	0.8	0.2	( 5.1)	1.5	0.9	5.1

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury; Bureau of the Census; and Agricultural Marketing Service, U.S. Department of Agriculture. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 48. CIGARS SIC 2121  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR 1/			OUTPUT PER EMPLOYEE 1/		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	28.7	(3/)	28.0	27.0	42.8
1947.....	33.0	31.4	( 59.2)	33.6	32.2	58.7
1948.....	35.9	34.3	( 61.4)	35.9	34.5	61.1
1949.....	36.7	35.2	( 60.6)	36.1	34.6	59.6
1950.....	41.0	39.4	( 64.9)	38.7	37.2	63.6
1951.....	42.0	40.4	( 66.5)	40.3	38.8	65.4
1952.....	43.9	42.0	( 75.5)	42.8	40.9	74.4
1953.....	43.4	42.0	( 61.8)	43.1	41.8	60.4
1954.....	45.4	43.8	( 69.4)	44.8	43.3	67.6
1955.....	45.8	44.2	( 67.8)	44.8	43.4	65.6
1956.....	50.5	48.9	( 71.8)	49.0	47.6	69.8
1957.....	54.0	52.3	( 76.2)	52.8	51.2	74.0
1958.....	62.6	61.2	( 77.7)	62.4	61.3	75.4
1959.....	67.9	66.7	( 81.0)	68.4	67.5	78.5
1960.....	75.1	73.7	( 90.5)	75.3	74.1	88.8
1961.....	79.5	78.9	( 85.3)	80.4	79.9	84.3
1962.....	85.2	84.6	( 89.8)	85.4	85.0	90.3
1963.....	91.7	90.5	(102.1)	91.8	90.9	102.5
1964.....	101.3	97.9	(145.8)	107.0	104.1	147.2
1965.....	104.4	102.8	(121.1)	105.2	103.6	121.6
1966.....	103.2	100.8	(133.4)	103.0	100.6	133.4
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.6	103.2	(107.7)	104.1	104.1	104.1
1969.....	108.1	108.0	(109.8)	109.0	109.3	105.7
1970.....	113.3	112.7	(118.9)	114.4	114.3	114.4
1971.....	120.1	118.4	(137.7)	121.3	120.1	132.5
1972.....	120.1	120.7	(114.3)	120.0	121.3	109.6
1973.....	116.8	115.9	(125.0)	117.1	116.8	120.1
1974.....	128.4	126.0	(155.3)	121.3	118.9	149.4
1975 4/.....	128.5	128.0	(133.1)	120.3	119.6	128.0
AVERAGE ANNUAL RATES (PERCENT)						
1950-75.....	5.3	5.5	( 3.4)	5.4	5.5	3.4
1970-75.....	2.3	2.3	( 2.9)	0.6	0.5	2.9

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Not available.

4/ Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 49. CIGARS SIC 2121  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	80.0	(2/)	278.9	(2/)	285.5	295.9	186.9
1947.....	83.3	252.8	265.2	(140.8)	247.8	258.9	141.9
1948.....	86.1	239.9	250.9	(140.2)	239.5	249.8	141.0
1949.....	83.4	227.2	237.0	(137.6)	231.2	240.8	140.0
1950.....	82.8	201.9	210.0	(127.6)	213.9	222.6	130.2
1951.....	86.4	205.5	213.9	(129.9)	214.2	222.8	132.2
1952.....	90.4	205.7	215.1	(119.7)	211.3	220.8	121.5
1953.....	92.1	212.3	219.3	(149.1)	213.7	220.2	152.5
1954.....	90.8	199.8	207.5	(130.8)	202.5	209.8	134.3
1955.....	90.2	197.0	204.1	(133.1)	201.3	208.0	137.5
1956.....	89.8	177.8	183.8	(125.1)	183.1	188.8	128.7
1957.....	91.8	170.1	175.5	(120.5)	173.9	179.2	124.1
1958.....	96.4	154.1	157.5	(124.1)	154.5	157.2	127.9
1959.....	102.2	150.5	153.2	(126.2)	149.4	151.4	130.2
1960.....	104.3	138.9	141.5	(115.2)	138.5	140.8	117.5
1961.....	99.0	124.5	125.4	(116.1)	123.2	123.9	117.5
1962.....	99.6	116.9	117.7	(110.9)	116.6	117.2	110.3
1963.....	100.2	109.3	110.7	( 98.1)	109.1	110.2	97.8
1964.....	129.5	127.8	132.3	( 88.8)	121.0	124.4	88.0
1965.....	116.5	111.6	113.3	( 96.2)	110.7	112.4	95.8
1966.....	105.0	101.7	104.2	( 78.7)	101.9	104.4	78.7
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.1	100.5	100.9	( 96.7)	100.0	100.0	100.0
1969.....	99.8	92.3	92.4	( 90.9)	91.6	91.3	94.4
1970.....	101.7	89.8	90.2	( 85.5)	88.9	89.0	88.9
1971.....	95.7	79.7	80.8	( 69.5)	78.9	79.7	72.2
1972.....	85.3	71.0	70.7	( 74.6)	71.1	70.3	77.8
1973.....	80.1	68.6	69.1	( 64.1)	68.4	68.6	66.7
1974.....	74.7	58.2	59.3	( 48.1)	61.6	62.8	50.0
1975 <sup>3/</sup> .....	64.0	49.8	50.0	( 48.1)	53.2	53.5	50.0
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	-0.2	-5.2	-5.4	( -3.5)	-5.3	-5.4	-3.5
1970-75.....	-8.5	-10.6	-10.5	(-11.1)	-9.1	-9.0	-11.1

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 50. HOSIERY SIC 2251,2252  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	36.9	35.8	( 53.5)	37.8	36.6	54.8
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	38.4	38.0	( 42.5)	38.4	37.9	43.2
1950.....	40.6	39.7	( 51.5)	40.7	39.9	52.1
1951.....	42.6	42.4	( 44.0)	41.7	41.4	44.6
1952.....	45.9	45.9	( 45.4)	46.2	46.2	46.1
1953.....	44.5	44.2	( 47.7)	44.1	43.7	48.0
1954.....	46.8	45.9	( 57.2)	45.8	44.8	57.5
1955.....	46.1	45.4	( 54.0)	45.3	44.5	54.2
1956.....	47.0	46.3	( 54.2)	46.0	45.3	54.5
1957.....	49.2	48.7	( 54.1)	48.1	47.5	54.3
1958.....	58.1	57.9	( 60.2)	56.2	55.8	60.4
1959.....	57.8	57.2	( 63.6)	57.5	57.0	63.8
1960.....	59.3	58.6	( 66.0)	58.7	58.0	66.4
1961.....	64.8	64.5	( 67.5)	64.5	64.2	67.5
1962.....	67.1	66.9	( 69.4)	66.9	66.5	69.5
1963.....	75.8	75.2	( 82.7)	74.7	73.9	82.9
1964.....	81.1	80.2	( 90.0)	81.8	81.0	90.7
1965.....	80.9	80.1	( 89.9)	81.2	80.4	90.0
1966.....	89.1	88.4	( 95.0)	90.4	89.9	94.8
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	93.5	94.1	( 89.0)	94.0	94.3	92.2
1969.....	107.9	108.5	(102.0)	108.5	109.0	103.1
1970.....	128.1	129.8	(113.6)	122.0	123.0	112.5
1971.....	120.9	124.6	( 94.0)	115.8	118.7	93.6
1972.....	139.2	143.1	(109.7)	138.0	141.7	109.4
1973.....	147.4	152.5	(110.8)	140.2	143.9	111.0
1974.....	167.4	173.7	(122.7)	158.4	163.0	122.7
1975 <sup>4/</sup> .....	176.6	183.3	(131.3)	170.3	175.4	131.1
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	6.1	6.3	( 4.4)	6.0	6.2	4.3
1970-75.....	7.8	8.3	( 4.5)	7.8	8.2	4.7

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the National Association of Hosiery Manufacturers, Inc., and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 51. HOSIERY SIC 2251,2252  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	52.6	142.4	146.9	( 98.3)	139.2	143.6	96.0
1948.....	52.7	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	52.3	136.1	137.5	(123.0)	136.3	137.9	121.2
1950.....	58.5	144.1	147.3	(113.5)	143.7	146.8	112.3
1951.....	57.3	134.5	135.0	(130.3)	137.5	138.5	128.6
1952.....	60.6	132.1	131.9	(133.4)	131.2	131.3	131.4
1953.....	59.9	134.5	135.4	(125.7)	135.7	137.0	124.7
1954.....	58.3	124.7	127.0	(102.0)	127.4	130.1	101.4
1955.....	59.1	128.3	130.3	(109.4)	130.6	132.8	109.1
1956.....	57.7	122.8	124.6	(106.4)	125.3	127.4	105.9
1957.....	57.7	117.3	118.5	(106.6)	119.9	121.4	106.2
1958.....	59.8	103.0	103.3	( 99.4)	106.5	107.2	99.0
1959.....	63.0	109.0	110.1	( 99.1)	109.5	110.6	98.8
1960.....	62.8	105.9	107.1	( 95.2)	106.9	108.3	94.6
1961.....	68.8	106.1	106.6	(101.9)	106.6	107.2	101.9
1962.....	70.6	105.2	105.5	(101.8)	105.6	106.1	101.6
1963.....	73.1	96.4	97.2	( 88.4)	97.9	98.9	88.2
1964.....	77.7	95.8	96.9	( 86.3)	95.0	95.9	85.7
1965.....	81.8	101.1	102.1	( 91.0)	100.7	101.7	90.9
1966.....	90.3	101.4	102.1	( 95.1)	99.9	100.5	95.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	98.6	105.4	104.8	(110.8)	104.9	104.6	106.9
1969.....	119.7	110.9	110.3	(117.4)	110.3	109.8	116.1
1970.....	129.3	100.9	99.6	(113.8)	106.0	105.1	114.9
1971.....	107.5	88.9	86.3	(114.4)	92.8	90.6	114.9
1972.....	116.9	84.0	81.7	(106.6)	84.7	82.5	106.9
1973.....	114.8	77.9	75.3	(103.6)	81.9	79.8	103.4
1974.....	105.8	63.2	60.9	( 86.2)	66.8	64.9	86.2
1975 <sup>3/</sup> .....	110.0	62.3	60.0	( 83.8)	64.6	62.7	83.9
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	3.6	-2.4	-2.6	( -0.8)	-2.3	-2.5	-0.7
1970-75.....	-2.5	-9.5	-9.9	( -6.6)	-9.5	-9.8	-6.8

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the National Association of Hosiery Manufacturers, Inc., and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 52. SAWMILLS AND PLANING MILLS, GENERAL SIC 2421  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	73.1	76.5	( 49.7)	70.9	73.6	50.8
1959.....	75.7	75.4	( 78.8)	73.9	73.4	80.4
1960.....	75.2	75.0	( 77.4)	75.4	75.1	78.6
1961.....	82.0	81.6	( 85.4)	81.1	80.7	86.0
1962.....	85.6	84.9	( 93.9)	85.6	84.9	94.1
1963.....	89.3	90.6	( 77.4)	89.0	90.3	77.7
1964.....	94.9	96.7	( 78.6)	96.4	98.3	79.1
1965.....	91.7	92.8	( 80.8)	92.4	93.6	81.1
1966.....	92.6	93.6	( 83.7)	93.1	94.0	83.5
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.5	103.3	( 95.5)	103.9	104.5	97.5
1969.....	101.6	102.7	( 91.5)	102.3	103.2	93.6
1970.....	100.9	103.4	( 80.3)	101.8	104.0	82.8
1971.....	110.0	111.6	( 94.7)	111.2	112.6	97.7
1972.....	120.6	122.5	(102.7)	124.3	126.3	106.0
1973.....	112.8	114.9	( 94.8)	116.3	118.4	98.2
1974.....	108.1	111.5	( 81.7)	109.2	112.3	84.5
1975 <u>3/</u> .....	113.7	119.2	( 75.8)	112.7	117.7	78.5
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	2.7	2.9	( 1.5)	2.9	3.1	1.6
1970-75.....	1.4	1.8	( -2.3)	1.1	1.6	-2.2

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 53. SAWMILLS AND PLANING MILLS, GENERAL SIC 2421  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	96.5	132.0	126.2	(194.0)	136.2	131.1	189.9
1959.....	103.3	136.5	137.0	(131.1)	139.7	140.8	128.5
1960.....	100.5	133.7	134.0	(129.8)	133.3	133.8	127.8
1961.....	96.3	117.5	118.0	(112.7)	118.7	119.4	112.0
1962.....	99.5	116.2	117.2	(106.0)	116.2	117.2	105.7
1963.....	102.3	114.5	112.9	(132.1)	114.9	113.3	131.6
1964.....	106.2	111.9	109.8	(135.1)	110.2	108.0	134.2
1965.....	103.2	112.6	111.2	(127.8)	111.7	110.2	127.2
1966.....	100.5	108.5	107.4	(120.1)	108.0	106.9	120.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	101.2	98.7	98.0	(106.0)	97.4	96.8	103.8
1969.....	100.7	99.1	98.1	(110.0)	98.4	97.6	107.6
1970.....	98.0	97.1	94.8	(122.1)	96.3	94.2	118.4
1971.....	104.5	95.0	93.6	(110.4)	94.0	92.8	107.0
1972.....	114.7	95.1	93.6	(111.7)	92.3	90.8	108.2
1973.....	111.9	99.2	97.4	(118.1)	96.2	94.5	113.9
1974.....	104.9	97.0	94.1	(128.4)	96.1	93.4	124.1
1975 <sup>2/</sup> .....	96.4	84.8	80.9	(127.1)	85.5	81.9	122.8
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	0.3	-2.3	-2.5	( -1.1)	-2.5	-2.7	-1.3
1970-75.....	-0.3	-1.6	-2.1	( 2.0)	-1.4	-1.8	2.0

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 54. PAPER, PAPERBOARD AND PULP MILLS SIC 2611, 21, 31, 61  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	48.5	(3/)	(3/)	45.8	(3/)
1947.....	47.9	44.4	( 78.9)	50.3	46.0	81.2
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	50.1	47.4	( 70.1)	50.3	46.9	71.4
1950.....	56.4	53.0	( 83.6)	58.5	54.4	84.9
1951.....	58.8	55.6	( 82.1)	60.7	57.0	83.8
1952.....	57.6	54.9	( 76.0)	58.5	55.2	77.6
1953.....	57.6	54.9	( 75.2)	58.7	55.6	76.3
1954.....	59.7	57.4	( 75.1)	60.0	57.1	75.9
1955.....	63.9	61.0	( 83.1)	65.6	62.3	83.6
1956.....	66.7	64.3	( 81.6)	68.1	65.3	82.2
1957.....	66.6	64.9	( 77.0)	66.4	64.1	77.6
1958.....	68.3	66.7	( 77.7)	67.7	65.4	78.3
1959.....	72.4	70.9	( 81.1)	73.2	71.5	81.6
1960.....	74.8	73.9	( 79.8)	74.7	73.5	80.2
1961.....	79.7	79.0	( 83.1)	79.4	78.5	83.3
1962.....	82.8	82.0	( 87.2)	82.7	81.6	87.7
1963.....	87.6	86.9	( 91.6)	87.7	86.7	92.0
1964.....	92.2	91.3	( 97.5)	93.1	91.9	98.3
1965.....	96.9	96.4	( 99.5)	97.4	96.7	100.0
1966.....	101.6	101.2	(104.2)	102.9	102.5	104.2
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.4	105.8	(109.8)	107.2	106.5	109.6
1969.....	110.5	109.7	(114.7)	111.2	110.8	112.7
1970.....	114.6	114.7	(114.3)	112.3	112.7	110.9
1971.....	119.9	121.3	(113.6)	118.2	119.6	112.6
1972.....	130.0	131.2	(124.2)	129.6	130.8	125.1
1973.....	135.4	136.5	(130.9)	134.3	134.7	132.4
1974.....	135.1	137.0	(126.6)	132.3	133.4	127.9
1975 <u>4/</u> .....	126.1	131.0	(107.0)	120.6	123.9	108.2
AVERAGE ANNUAL RATES (PERCENT)						
1950-75.....	3.9	4.2	( 2.2)	3.7	4.1	2.1
1970-75.....	2.5	3.1	( 0.1)	2.1	2.4	0.9

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Not available.

4/ Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 55. PAPER, PAPERBOARD AND PULP MILLS SIC 2611, 21, 31, 61  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	26.9	(2/)	55.5	(2/)	(2/)	58.7	(2/)
1947.....	41.8	87.2	94.1	( 53.0)	83.1	90.8	51.5
1948.....	43.5	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	40.5	80.8	85.4	( 57.8)	80.5	86.4	56.7
1950.....	48.4	85.8	91.3	( 57.9)	82.8	89.0	57.0
1951.....	52.7	89.6	94.7	( 64.2)	86.8	92.5	62.9
1952.....	50.1	87.0	91.2	( 65.9)	85.6	90.7	64.6
1953.....	53.5	92.9	97.4	( 71.1)	91.2	96.3	70.1
1954.....	54.5	91.3	95.0	( 72.6)	90.8	95.4	71.8
1955.....	61.1	95.6	100.1	( 73.5)	93.2	98.0	73.1
1956.....	64.8	97.2	100.8	( 79.4)	95.2	99.2	78.8
1957.....	63.1	94.7	97.3	( 81.9)	95.1	98.4	81.3
1958.....	63.4	92.8	95.0	( 81.6)	93.7	96.9	81.0
1959.....	70.6	97.5	99.6	( 87.0)	96.4	98.8	86.5
1960.....	72.2	96.5	97.7	( 90.5)	96.6	98.2	90.0
1961.....	74.5	93.5	94.3	( 89.6)	93.8	94.9	89.4
1962.....	78.4	94.7	95.6	( 89.9)	94.8	96.1	89.4
1963.....	82.6	94.3	95.1	( 90.2)	94.2	95.3	89.8
1964.....	87.9	95.3	96.3	( 90.2)	94.4	95.6	89.4
1965.....	93.1	96.1	96.6	( 93.6)	95.6	96.3	93.1
1966.....	100.3	98.7	99.1	( 96.3)	97.5	97.9	96.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.6	101.1	101.7	( 98.0)	100.4	101.0	98.2
1969.....	113.2	102.4	103.2	( 98.7)	101.8	102.2	100.4
1970.....	112.1	97.8	97.7	( 81.1)	99.8	99.5	101.1
1971.....	113.4	94.6	93.5	( 99.8)	95.9	94.8	100.7
1972.....	122.3	94.1	93.2	( 98.5)	94.4	93.5	97.8
1973.....	128.0	94.5	93.8	( 97.8)	95.3	95.0	96.7
1974.....	127.4	94.3	93.0	(100.6)	96.3	95.5	99.6
1975 <sup>3/</sup> .....	108.2	85.8	82.6	(101.1)	89.7	87.3	100.0
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	4.1	0.2	-0.1	( 1.9)	0.4	0.1	2.0
1970-75.....	0.6	-1.9	-2.4	( 0.5)	-1.5	-1.7	-0.3

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 56. CORRUGATED AND SOLID FIBER BOXES SIC 2653  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	76.4	76.3	( 76.7)	75.9	75.4	77.2
1959.....	77.6	76.2	( 83.1)	78.6	77.2	83.6
1960.....	77.2	76.5	( 79.5)	76.5	75.5	80.1
1961.....	81.6	80.7	( 84.5)	82.0	81.1	84.8
1962.....	82.7	81.4	( 88.0)	83.8	82.5	88.4
1963.....	88.2	87.9	( 89.5)	88.8	88.6	89.9
1964.....	90.0	89.8	( 90.8)	92.6	93.0	91.7
1965.....	92.8	92.7	( 93.7)	95.9	96.5	94.2
1966.....	96.6	94.8	(103.4)	98.6	97.2	103.5
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.6	103.1	(105.8)	104.2	103.8	105.5
1969.....	106.0	105.5	(107.6)	106.2	106.4	105.9
1970.....	111.8	112.8	(108.3)	107.6	108.4	105.1
1971.....	118.5	120.8	(110.8)	114.6	116.3	109.8
1972.....	121.6	123.0	(117.4)	120.4	121.2	118.1
1973.....	130.2	130.9	(127.4)	128.3	128.1	129.0
1974.....	137.5	143.2	(121.2)	128.5	130.6	122.6
1975 <u>3/</u> .....	142.1	152.9	(114.6)	133.5	140.5	115.8
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	3.8	4.1	( 2.8)	3.5	3.7	2.8
1970-75.....	5.0	6.2	( 1.8)	4.3	5.0	2.6

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output based on data from the Fibre Box Association, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 57. CORRUGATED AND SOLID FIBER BOXES SIC 2653  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	55.3	72.4	72.5	( 72.1)	72.9	73.3	71.6
1959.....	63.0	81.2	82.7	( 75.8)	80.2	81.6	75.4
1960.....	63.0	81.6	82.3	( 79.2)	82.3	83.4	78.7
1961.....	67.3	82.5	83.4	( 79.6)	82.1	83.0	79.4
1962.....	71.9	86.9	88.3	( 81.7)	85.8	87.2	81.3
1963.....	76.2	86.4	86.7	( 85.1)	85.8	86.0	84.8
1964.....	82.4	91.6	91.8	( 90.7)	89.0	88.6	89.9
1965.....	89.5	96.4	96.6	( 95.5)	93.3	92.7	95.0
1966.....	97.6	101.0	102.9	( 94.4)	99.0	100.4	94.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.1	104.3	104.9	(102.2)	103.7	104.1	102.5
1969.....	115.5	109.0	109.5	(107.3)	108.8	108.6	109.1
1970.....	116.0	103.8	102.8	(107.1)	107.8	107.0	110.4
1971.....	121.2	102.3	100.3	(109.4)	105.8	104.2	110.4
1972.....	133.8	110.0	108.8	(114.0)	111.1	110.4	113.3
1973.....	145.0	111.4	110.8	(113.8)	113.0	113.2	112.4
1974.....	136.3	99.1	95.2	(112.5)	106.1	104.4	111.2
1975 <sup>2/</sup> .....	126.3	88.9	82.6	(110.2)	94.6	89.9	109.1
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	5.7	1.8	1.5	( 2.8)	2.2	2.0	2.9
1970-75.....	2.5	-2.4	-3.5	( 0.6)	-1.8	-2.4	-0.1

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output based on data from the Fibre Box Association, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 58. SYNTHETIC FIBERS SIC 2823,2824  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1957.....	68.6	67.4	( 72.2)	68.1	66.4	73.5
1958.....	65.9	67.2	( 62.1)	66.0	67.1	63.1
1959.....	75.4	73.8	( 81.0)	75.9	73.8	82.2
1960.....	72.1	71.9	( 72.8)	71.3	70.4	73.6
1961.....	77.5	77.7	( 76.7)	77.0	76.9	77.0
1962.....	85.0	83.6	( 89.9)	85.2	83.6	90.4
1963.....	84.3	85.0	( 82.2)	85.3	86.1	82.7
1964.....	89.8	89.8	( 89.6)	91.7	92.0	90.5
1965.....	92.8	91.9	( 95.0)	93.7	93.2	95.4
1966.....	93.3	94.7	( 89.6)	93.7	95.2	89.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	115.7	112.9	(124.9)	117.5	114.8	125.9
1969.....	116.8	114.5	(124.6)	118.1	115.9	124.9
1970.....	119.5	119.1	(121.1)	118.9	118.2	120.8
1971.....	140.7	137.8	(150.0)	139.8	136.7	149.7
1972.....	162.2	157.0	(180.9)	163.5	158.6	179.6
1973.....	177.1	170.4	(201.6)	179.0	172.3	201.2
1974.....	173.8	170.9	(183.9)	172.2	168.7	183.3
1975 <sup>3/</sup> .....	180.5	186.0	(165.4)	177.5	182.3	164.9
	AVERAGE ANNUAL RATES (PERCENT)					
1957-75.....	6.0	5.9	( 6.2)	6.0	6.0	6.1
1970-75.....	8.3	8.8	( 6.7)	8.1	8.6	6.7

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Textile Economics Bureau, Inc., and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 59. SYNTHETIC FIRERS SIC 2823,2824  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1957.....	49.7	72.4	73.7	( 68.8)	73.0	74.9	67.6
1958.....	45.4	68.9	67.6	( 73.1)	68.8	67.7	72.0
1959.....	54.2	71.9	73.4	( 66.9)	71.4	73.4	65.9
1960.....	51.0	70.7	70.9	( 70.1)	71.5	72.4	69.3
1961.....	53.6	69.2	69.0	( 69.9)	69.6	69.7	69.6
1962.....	64.0	75.3	76.6	( 71.2)	75.1	76.6	70.8
1963.....	68.4	81.1	80.5	( 83.2)	80.2	79.4	82.7
1964.....	78.4	87.3	87.3	( 87.5)	85.5	85.2	86.6
1965.....	89.9	96.9	97.8	( 94.6)	95.9	96.5	94.2
1966.....	98.2	105.2	103.7	(109.6)	104.8	103.2	109.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	127.0	109.8	112.5	(101.7)	108.1	110.6	100.9
1969.....	131.9	112.9	115.2	(105.9)	111.7	113.8	105.6
1970.....	129.7	108.5	108.9	(107.1)	109.1	109.7	107.4
1971.....	149.7	106.4	108.6	( 99.8)	107.1	109.5	100.0
1972.....	174.9	107.8	111.4	( 96.7)	107.0	110.3	97.4
1973.....	197.8	111.7	116.1	( 98.1)	110.5	114.8	98.3
1974.....	196.0	112.8	114.7	(106.6)	113.8	116.2	106.9
1975 <sup>2/</sup> .....	176.3	97.7	94.8	(106.6)	99.3	96.7	106.9
AVERAGE ANNUAL RATES (PERCENT)							
1957-75.....	9.3	3.1	3.2	( 2.9)	3.1	3.1	3.0
1970-75.....	7.3	-0.9	-1.4	( 0.5)	-0.7	-1.2	0.5

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output based on data from the Textile Economics Bureau, Inc., and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 60. PHARMACEUTICAL PREPARATIONS SIC 2834  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>		OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	82.1	82.5	84.5	84.7	84.1
1964.....	83.9	83.0	86.9	85.8	88.1
1965.....	90.9	90.7	93.1	92.7	93.5
1966.....	94.1	93.4	97.6	96.9	98.5
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	106.3	107.2	108.8	109.6	107.7
1969.....	113.4	112.2	115.6	114.5	116.9
1970.....	116.2	118.0	120.2	121.9	118.3
1971.....	125.7	134.8	129.1	138.3	119.7
1972.....	134.9	143.5	138.0	146.7	128.9
1973.....	132.1	143.0	133.9	144.8	122.9
1974.....	141.4	152.4	142.3	153.3	131.1
1975 <sup>2/</sup> .....	150.0	164.5	148.6	162.8	134.7
	AVERAGE ANNUAL RATES (PERCENT)				
1963-75.....	5.3	6.2	5.0	6.0	4.0
1970-75.....	4.7	6.0	3.8	5.1	2.5

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of Census and the Bureau of Labor Statistics.



TABLE 61. PHARMACEUTICAL PREPARATIONS SIC 2834  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	70.5	85.9	85.5	83.4	83.2	83.8
1964.....	76.8	91.5	92.5	88.4	89.5	87.2
1965.....	86.3	94.9	95.2	92.7	93.1	92.3
1966.....	94.1	100.0	100.7	96.4	97.1	95.5
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	109.1	102.6	101.8	100.3	99.5	101.3
1969.....	122.2	107.8	108.9	105.7	106.7	104.5
1970.....	131.9	113.5	111.8	109.7	108.2	111.5
1971.....	143.8	114.4	106.7	111.4	104.0	120.1
1972.....	151.5	112.3	105.6	109.8	103.3	117.5
1973.....	158.7	120.1	111.0	118.5	109.6	129.1
1974.....	168.3	119.0	110.4	118.3	109.8	128.4
1975 <u>1/</u> .....	175.5	117.0	106.7	118.1	107.8	130.3
AVERAGE ANNUAL RATES (PERCENT)						
1963-75.....	8.1	2.7	1.8	2.9	2.0	3.9
1970-75.....	5.7	1.0	-0.2	1.8	0.6	3.1

1/ Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 62. PAINTS AND ALLIED PRODUCTS SIC 2851  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	75.1	73.6	( 77.3)	75.7	73.6	78.4
1959.....	82.0	80.7	( 83.7)	82.2	80.0	84.8
1960.....	88.2	86.4	( 90.7)	88.2	85.4	91.6
1961.....	86.0	84.6	( 87.8)	86.0	84.1	88.3
1962.....	89.7	88.2	( 91.8)	91.0	90.1	92.3
1963.....	92.6	91.9	( 93.8)	93.6	93.1	94.2
1964.....	98.5	96.7	(101.2)	100.5	99.4	102.1
1965.....	99.6	98.8	(100.7)	100.5	99.9	101.1
1966.....	104.4	103.1	(106.2)	105.1	104.3	106.2
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	110.0	110.0	(110.1)	110.4	109.9	110.9
1969.....	113.8	112.3	(115.8)	113.3	111.2	115.8
1970.....	101.7	100.8	(102.9)	100.8	99.5	102.6
1971.....	114.4	115.9	(112.5)	112.1	112.3	112.0
1972.....	119.1	117.5	(121.3)	118.8	117.6	120.3
1973.....	112.3	110.4	(114.9)	109.3	105.3	114.4
1974.....	124.4	126.0	(122.2)	122.8	123.9	121.7
1975 <sup>3/</sup> .....	130.2	136.9	(122.3)	128.0	133.7	121.9
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	2.7	3.0	( 2.5)	2.6	2.8	2.3
1970-75.....	4.2	5.0	( 3.1)	4.0	4.9	3.1

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 63. PAINTS AND ALLIED PRODUCTS SIC 2851  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	67.3	89.6	91.5	( 87.1)	88.9	91.4	85.8
1959.....	75.5	92.1	93.6	( 90.2)	91.9	94.4	89.0
1960.....	78.9	89.5	91.3	( 87.0)	89.5	92.4	86.1
1961.....	75.9	88.3	89.7	( 86.4)	88.3	90.2	86.0
1962.....	80.2	89.4	90.9	( 87.4)	88.1	89.0	86.9
1963.....	86.8	93.7	94.5	( 92.5)	92.7	93.2	92.1
1964.....	92.8	94.2	96.0	( 91.7)	92.3	93.4	90.9
1965.....	99.1	99.5	100.3	( 98.4)	98.6	99.2	98.0
1966.....	106.9	102.4	103.7	(100.7)	101.7	102.5	100.7
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.7	98.8	98.8	( 98.7)	98.5	98.9	98.0
1969.....	114.3	100.4	101.8	( 98.7)	100.9	102.8	98.7
1970.....	108.8	107.0	107.9	(105.7)	107.9	109.4	106.0
1971.....	115.4	100.9	99.6	(102.6)	102.9	102.8	103.0
1972.....	123.1	103.4	104.8	(101.5)	103.6	104.7	102.3
1973.....	119.1	106.1	107.9	(103.7)	109.0	113.1	104.1
1974.....	125.4	100.8	99.5	(102.6)	102.1	101.2	103.0
1975 <u>2/</u> .....	120.2	92.3	87.8	( 98.3)	93.9	89.9	98.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	3.6	0.8	0.6	( 1.1)	1.0	0.8	1.2
1970-75.....	2.1	-2.0	-2.8	( -1.0)	-1.9	-2.7	-1.0

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 64. PETROLEUM REFINING SIC 2911  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	29.9	(3/)	32.6	28.7	48.1
1947.....	31.4	28.6	( 42.3)	32.8	29.7	43.7
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	34.9	31.7	( 47.9)	35.5	31.8	48.9
1950.....	39.0	36.6	( 47.4)	39.8	37.2	48.3
1951.....	40.7	38.4	( 48.4)	41.5	39.0	49.4
1952.....	41.7	39.9	( 47.6)	41.9	39.7	48.7
1953.....	42.6	40.9	( 48.1)	42.3	40.2	48.8
1954.....	44.7	43.1	( 49.6)	44.2	42.1	50.3
1955.....	48.9	47.1	( 54.7)	48.5	46.3	55.1
1956.....	50.9	49.1	( 56.9)	50.6	48.3	57.4
1957.....	51.0	49.9	( 54.6)	50.7	49.2	55.0
1958.....	53.6	52.5	( 56.8)	52.5	50.8	57.2
1959.....	60.2	59.1	( 63.6)	59.3	57.6	64.1
1960.....	62.7	62.1	( 64.7)	62.2	61.2	65.1
1961.....	67.5	67.1	( 68.9)	66.8	66.0	69.0
1962.....	73.5	73.5	( 73.9)	72.9	72.4	74.3
1963.....	79.1	78.5	( 80.5)	77.7	76.5	81.0
1964.....	83.4	83.0	( 84.8)	83.1	82.2	85.7
1965.....	90.5	89.9	( 92.1)	89.5	88.4	92.7
1966.....	97.7	97.1	( 99.5)	97.0	96.0	99.4
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.4	103.1	(100.6)	103.2	103.9	101.7
1969.....	105.3	109.1	( 96.4)	109.2	111.7	103.7
1970.....	104.8	106.6	(100.6)	106.3	107.6	103.3
1971.....	109.5	112.3	(102.8)	110.2	112.1	105.8
1972.....	120.5	121.9	(117.0)	121.2	121.5	120.3
1973.....	132.1	135.7	(123.4)	131.4	133.0	127.6
1974.....	121.0	121.8	(119.1)	121.8	121.3	122.9
1975 <sup>4/</sup> .....	121.7	123.2	(118.1)	120.6	120.0	122.1
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	5.4	5.7	( 4.4)	5.4	5.7	4.5
1970-75.....	3.3	3.1	( 3.8)	2.9	2.5	3.9

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 65. PETROLEUM REFINING SIC 2911  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	30.9	(2/)	103.3	(2/)	94.9	107.5	64.2
1947.....	44.8	142.9	156.5	(105.8)	136.7	150.6	102.6
1948.....	49.3	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	47.9	137.3	151.2	( 99.9)	135.1	150.4	97.9
1950.....	52.0	133.3	142.1	(109.6)	130.5	139.7	107.7
1951.....	58.9	144.7	153.2	(121.8)	141.9	151.1	119.3
1952.....	60.2	144.3	150.9	(126.4)	143.6	151.7	123.7
1953.....	63.3	148.5	154.6	(131.7)	149.6	157.6	129.8
1954.....	63.4	141.9	147.0	(127.7)	143.6	150.6	126.1
1955.....	68.6	140.4	145.8	(125.3)	141.4	148.2	124.6
1956.....	73.0	143.4	148.8	(128.3)	144.3	151.1	127.1
1957.....	73.2	143.4	146.6	(134.1)	144.3	148.9	133.0
1958.....	71.9	134.2	136.9	(126.6)	136.9	141.4	125.7
1959.....	76.3	126.8	129.2	(119.9)	128.6	132.4	119.1
1960.....	78.7	125.5	126.8	(121.6)	126.5	128.6	120.8
1961.....	80.6	119.4	120.1	(117.0)	120.6	122.1	116.8
1962.....	84.0	114.3	114.3	(113.7)	115.3	116.1	113.0
1963.....	86.2	109.0	109.8	(107.1)	110.9	112.7	106.4
1964.....	88.7	106.3	106.9	(104.6)	106.7	107.9	103.5
1965.....	91.2	100.8	101.4	( 99.0)	101.9	103.2	98.4
1966.....	95.9	98.2	98.8	( 96.4)	98.9	99.9	96.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.6	101.2	100.5	(103.0)	100.4	99.7	101.9
1969.....	105.4	100.1	96.6	(109.3)	96.5	94.4	101.6
1970.....	107.3	102.4	100.7	(106.7)	100.9	99.7	103.9
1971.....	110.2	100.6	98.1	(107.2)	100.0	98.3	104.2
1972.....	114.5	95.0	93.9	( 97.9)	94.5	94.2	95.2
1973.....	120.6	91.3	88.9	( 97.7)	91.8	90.7	94.5
1974.....	117.4	97.0	96.4	( 98.6)	96.4	96.8	95.5
1975 <sup>3/</sup> .....	115.9	95.2	94.1	( 98.1)	96.1	96.6	94.9
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	3.2	-2.1	-2.4	( -1.2)	-2.1	-2.4	-1.2
1970-75.....	1.8	-1.5	-1.3	( -1.9)	-1.1	-0.7	-2.0

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 66. TIRES AND INNER TUBES SIC 3011  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	45.3	43.1	( 54.8)	47.0	44.6	57.5
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	49.8	47.9	( 58.4)	48.6	45.9	60.7
1950.....	56.2	52.6	( 74.1)	58.3	54.4	76.8
1951.....	54.2	50.9	( 70.3)	56.8	53.3	73.0
1952.....	52.1	49.3	( 65.0)	54.1	51.0	67.7
1953.....	54.8	51.9	( 68.2)	56.3	53.1	70.4
1954.....	54.5	53.2	( 59.4)	53.9	52.0	61.2
1955.....	58.0	54.8	( 72.7)	63.1	60.4	74.4
1956.....	57.9	56.3	( 64.1)	58.6	56.7	65.9
1957.....	61.0	59.6	( 66.6)	62.2	60.5	68.4
1958.....	63.5	62.9	( 65.6)	63.8	62.8	67.4
1959.....	70.5	68.2	( 79.2)	72.1	69.7	81.2
1960.....	72.2	70.9	( 76.8)	73.4	72.1	78.2
1961.....	74.5	74.4	( 75.1)	75.8	75.9	75.6
1962.....	82.0	79.8	( 90.8)	86.4	84.9	91.4
1963.....	88.2	86.7	( 93.4)	91.0	90.2	93.9
1964.....	96.2	94.4	(102.6)	102.1	101.6	103.5
1965.....	98.2	96.7	(103.7)	104.9	105.0	104.3
1966.....	100.3	98.3	(107.6)	107.2	107.1	107.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.9	105.7	(111.4)	114.8	114.5	115.6
1969.....	103.3	101.8	(108.9)	112.0	111.6	113.5
1970.....	105.9	107.8	(100.0)	108.5	109.6	104.9
1971.....	114.0	114.6	(112.0)	117.1	117.5	116.0
1972.....	118.2	116.7	(123.5)	124.5	124.1	126.0
1973.....	117.1	117.1	(117.2)	119.9	119.8	120.0
1974.....	117.0	117.3	(115.7)	120.9	121.5	118.4
1975 <sup>4/</sup> .....	117.2	119.5	(109.5)	117.1	118.6	112.2
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	3.9	4.2	( 2.8)	3.9	4.2	2.8
1970-75.....	1.6	1.7	( 1.4)	1.3	1.3	1.0

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Rubber Manufacturers Association, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 67. TIRES AND INNER TUBES SIC 3011  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	60.1	132.7	139.4	(109.6)	127.8	134.8	104.5
1948.....	52.2	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	46.8	93.9	97.8	( 80.2)	96.2	101.9	77.1
1950.....	57.7	102.7	109.8	( 77.9)	98.9	106.1	75.1
1951.....	57.9	106.8	113.8	( 82.4)	101.9	108.7	79.3
1952.....	58.5	112.3	118.7	( 90.0)	108.1	114.7	86.4
1953.....	60.4	110.2	116.4	( 88.6)	107.2	113.7	85.8
1954.....	55.2	101.3	103.7	( 93.0)	102.4	106.2	90.2
1955.....	68.8	118.7	125.6	( 94.7)	109.1	114.0	92.5
1956.....	63.6	109.8	112.9	( 99.2)	108.6	112.2	96.5
1957.....	66.6	109.1	111.7	(100.0)	107.0	110.0	97.3
1958.....	61.5	96.8	97.7	( 93.7)	96.4	98.0	91.3
1959.....	73.5	104.3	107.7	( 92.8)	102.0	105.4	90.5
1960.....	72.8	100.9	102.7	( 94.8)	99.2	101.0	93.1
1961.....	70.5	94.6	94.8	( 93.9)	93.0	92.9	93.3
1962.....	80.4	98.0	100.8	( 88.5)	93.1	94.7	88.0
1963.....	83.7	94.9	96.5	( 89.6)	92.0	92.8	89.1
1964.....	94.5	98.2	100.1	( 92.1)	92.6	93.0	91.3
1965.....	100.3	102.1	103.7	( 96.7)	95.6	95.5	96.2
1966.....	107.6	107.3	109.5	(100.0)	100.4	100.5	100.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	121.6	113.7	115.0	(109.2)	105.9	106.2	105.2
1969.....	124.2	120.2	122.0	(114.1)	110.9	111.3	109.4
1970.....	117.7	111.1	109.2	(117.7)	108.5	107.4	112.2
1971.....	132.4	116.1	115.5	(118.2)	113.1	112.7	114.1
1972.....	144.4	122.2	123.7	(116.9)	116.0	116.4	114.6
1973.....	148.2	126.6	126.6	(126.4)	123.6	123.7	123.5
1974.....	152.9	130.7	130.3	(132.1)	126.5	125.8	129.1
1975 <sup>3/</sup> .....	133.7	114.1	111.9	(122.1)	114.2	112.7	119.2
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	4.4	0.5	0.3	( 1.6)	0.5	0.2	1.6
1970-75.....	3.2	1.5	1.5	( 1.7)	1.9	1.8	2.2

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Rubber Manufacturers Association, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 68. FOOTWEAR SIC 314  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	70.6	69.6	( 80.8)	72.4	71.4	83.9
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	74.3	74.1	( 75.4)	70.0	69.2	77.7
1950.....	80.2	80.2	( 79.9)	76.9	76.4	82.1
1951.....	82.2	82.9	( 75.0)	77.5	77.5	77.3
1952.....	84.1	84.6	( 79.2)	82.6	82.6	81.9
1953.....	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
1954.....	84.3	84.3	( 83.9)	81.4	80.9	85.9
1955.....	88.2	88.1	( 88.1)	88.3	87.9	89.7
1956.....	89.8	90.0	( 87.1)	88.6	88.5	89.1
1957.....	91.5	92.0	( 85.4)	89.3	89.5	87.3
1958.....	93.5	94.4	( 85.6)	90.8	91.2	87.4
1959.....	98.4	98.6	( 94.5)	97.5	97.6	96.6
1960.....	97.2	98.0	( 89.1)	94.9	95.3	90.5
1961.....	97.5	98.3	( 90.2)	94.9	95.3	90.7
1962.....	98.8	99.0	( 96.0)	97.1	97.1	96.3
1963.....	102.3	102.3	(101.6)	100.9	100.8	101.9
1964.....	102.0	101.7	(103.7)	102.6	102.4	104.5
1965.....	101.4	101.2	(102.2)	101.4	101.2	102.6
1966.....	102.6	102.6	(101.7)	103.1	103.4	101.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.6	103.6	(104.3)	104.4	104.4	104.3
1969.....	96.7	97.4	( 90.4)	95.5	96.0	91.3
1970.....	103.5	105.3	( 92.3)	102.9	103.8	94.4
1971.....	105.9	108.0	( 89.8)	104.9	106.4	92.4
1972.....	103.1	104.9	( 88.7)	104.4	106.0	91.3
1973.....	102.0	104.2	( 85.1)	101.7	103.4	88.1
1974.....	100.3	103.4	( 77.7)	98.3	100.7	80.3
1975 <u>5/</u> .....	107.7	110.9	( 84.2)	105.8	108.3	87.0
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	1.0	1.1	( 0.4)	1.1	1.2	0.4
1970-75.....	(6/)	0.4	( -2.6)	-0.2	0.1	-2.4

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Not available.

4/ Indexes for 1953 are not shown since Census data for that year may not be fully comparable with data for other years, possibly due to sampling error.

5/ Preliminary.

6/ Less than .05 percent.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 69. FOOTWEAR SIC 314  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	82.5	116.9	118.5	(102.1)	113.9	115.5	98.3
1948.....	81.5	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	79.7	107.3	107.5	(105.7)	113.9	115.1	102.6
1950.....	87.9	109.6	109.6	(110.0)	114.3	115.1	107.0
1951.....	82.1	99.9	99.0	(109.4)	106.0	106.0	106.2
1952.....	90.4	107.5	106.9	(114.1)	109.5	109.5	110.4
1953.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1954.....	88.8	105.4	105.4	(105.9)	109.1	109.7	103.4
1955.....	97.7	110.8	110.9	(110.9)	110.7	111.1	108.9
1956.....	99.0	110.3	110.0	(113.7)	111.8	111.9	111.1
1957.....	99.5	108.8	108.1	(116.5)	111.4	111.2	114.0
1958.....	97.7	104.5	103.5	(114.2)	107.6	107.1	111.8
1959.....	107.4	109.2	108.9	(113.7)	110.1	110.0	111.2
1960.....	102.4	105.4	104.5	(114.9)	107.9	107.4	113.1
1961.....	102.8	105.4	104.6	(114.0)	108.3	107.9	113.4
1962.....	104.8	106.1	105.9	(109.2)	107.9	107.9	108.8
1963.....	101.8	99.5	99.5	(100.2)	100.9	101.0	99.9
1964.....	103.8	101.8	102.1	(100.1)	101.2	101.4	99.3
1965.....	104.7	103.3	103.5	(102.4)	103.3	103.5	102.0
1966.....	107.4	104.7	104.7	(105.6)	104.2	103.9	105.6
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.4	102.7	102.7	(102.0)	101.9	101.9	102.0
1969.....	95.0	98.2	97.5	(105.1)	99.5	99.0	104.0
1970.....	93.5	90.0	88.8	(101.3)	90.9	90.1	99.0
1971.....	88.2	83.3	81.7	( 98.2)	84.1	82.9	95.5
1972.....	87.2	84.6	83.1	( 98.3)	83.5	82.3	95.5
1973.....	81.9	80.3	78.6	( 96.2)	80.5	79.2	93.0
1974.....	75.5	75.3	73.0	( 97.2)	76.8	75.0	94.0
1975 <sup>4/</sup> .....	74.4	69.1	67.1	( 88.4)	70.3	68.7	85.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	-0.4	-1.4	-1.4	( -0.8)	-1.5	-1.6	-0.8
1970-75.....	-4.7	-4.7	-5.0	( -2.1)	-4.5	-4.7	-2.3

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Indexes for 1953 are not shown since Census data for that year may not be fully comparable with data for other years, possibly due to sampling error.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 70. GLASS CONTAINERS SIC 3221  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	59.7	(3/)	55.9	56.7	49.8
1947.....	77.4	77.4	( 77.1)	80.2	80.3	79.9
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	70.6	69.9	( 76.1)	71.9	71.1	78.1
1950.....	78.5	77.4	( 88.9)	79.3	78.2	90.8
1951.....	75.6	74.6	( 84.4)	75.9	74.7	86.4
1952.....	74.8	74.0	( 82.6)	75.3	74.3	84.7
1953.....	79.2	79.1	( 80.4)	78.4	78.1	82.0
1954.....	78.4	78.5	( 77.6)	77.8	77.6	78.9
1955.....	81.6	81.2	( 84.4)	81.9	81.4	85.3
1956.....	81.8	81.5	( 84.3)	82.9	82.5	85.4
1957.....	81.5	81.4	( 82.5)	81.7	81.5	83.5
1958.....	78.7	79.2	( 74.1)	78.7	79.2	75.1
1959.....	83.6	83.8	( 81.8)	82.3	82.3	82.7
1960.....	81.6	81.8	( 79.4)	81.5	81.7	80.2
1961.....	83.2	83.1	( 82.9)	82.3	82.2	83.4
1962.....	86.3	86.5	( 84.0)	86.1	86.3	84.6
1963.....	89.4	89.3	( 89.2)	89.1	89.0	89.8
1964.....	91.8	91.9	( 90.9)	92.4	92.5	92.0
1965.....	97.6	97.7	( 95.9)	96.7	96.7	96.6
1966.....	97.4	97.4	( 97.2)	97.2	97.1	97.5
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.2	106.7	( 94.2)	102.6	103.6	95.7
1969.....	108.5	109.5	( 99.9)	106.4	106.7	104.1
1970.....	106.1	106.8	(100.1)	105.3	105.1	107.0
1971.....	107.8	109.3	( 96.1)	106.4	107.0	101.2
1972.....	107.7	108.9	( 98.1)	107.0	107.6	101.6
1973.....	112.5	114.5	( 98.2)	109.8	110.8	102.1
1974.....	120.8	122.8	(106.2)	118.0	118.9	110.4
1975 <sup>4/</sup> .....	119.8	122.1	(102.5)	118.5	120.1	106.6
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	1.9	2.0	( 1.1)	1.8	1.9	1.2
1970-75.....	2.9	3.1	( 1.2)	2.7	2.9	0.7

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 71. GLASS CONTAINERS SIC 3221  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	24.6	(2/)	41.2	(2/)	44.0	43.4	49.4
1947.....	56.7	73.3	73.3	( 73.5)	70.7	70.6	71.0
1948.....	47.7	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	43.4	61.5	62.1	( 57.0)	60.4	61.0	55.6
1950.....	50.3	64.1	65.0	( 56.6)	63.4	64.3	55.4
1951.....	54.7	72.4	73.3	( 64.8)	72.1	73.2	63.3
1952.....	53.7	71.8	72.6	( 65.0)	71.3	72.3	63.4
1953.....	59.5	75.1	75.2	( 74.0)	75.9	76.2	72.6
1954.....	57.6	73.5	73.4	( 74.2)	74.0	74.2	73.0
1955.....	62.7	76.8	77.2	( 74.3)	76.6	77.0	73.5
1956.....	64.3	78.6	78.9	( 76.3)	77.6	77.9	75.3
1957.....	66.4	81.5	81.6	( 80.5)	81.3	81.5	79.5
1958.....	64.8	82.3	81.8	( 87.4)	82.3	81.8	86.3
1959.....	69.4	83.0	82.8	( 84.8)	84.3	84.3	83.9
1960.....	71.5	87.6	87.4	( 90.0)	87.7	87.5	89.1
1961.....	74.2	89.2	89.3	( 89.5)	90.2	90.3	89.0
1962.....	77.5	89.8	89.6	( 92.3)	90.0	89.8	91.6
1963.....	80.1	89.6	89.7	( 89.8)	89.9	90.0	89.2
1964.....	83.7	91.2	91.1	( 92.1)	90.6	90.5	91.0
1965.....	89.2	91.4	91.3	( 93.0)	92.2	92.2	92.3
1966.....	93.9	96.4	96.4	( 96.6)	96.6	96.7	96.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	98.3	93.4	92.1	(104.3)	95.8	94.9	102.7
1969.....	114.1	105.2	104.2	(114.2)	107.2	106.9	109.6
1970.....	117.3	110.6	109.8	(117.2)	111.4	111.6	109.6
1971.....	115.1	106.8	105.3	(119.8)	108.2	107.6	113.7
1972.....	116.9	108.5	107.3	(119.2)	109.3	108.6	115.1
1973.....	120.3	106.9	105.1	(122.5)	109.6	108.6	117.8
1974.....	119.5	98.9	97.3	(112.5)	101.3	100.5	108.2
1975 <sup>3/</sup> .....	119.7	99.9	98.0	(116.8)	101.0	99.7	112.3
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	3.8	1.9	1.8	( 2.7)	1.9	1.9	2.6
1970-75.....	0.7	-2.1	-2.3	( -0.5)	-1.9	-2.2	(4/)

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

<sup>4/</sup> Less than .05 percent.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 72. HYDRAULIC CEMENT SIC 3241  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	40.0	(3/)	41.6	39.5	52.6
1947.....	41.5	38.0	( 69.1)	45.0	41.3	71.0
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	47.1	43.6	( 72.8)	49.9	46.2	74.3
1950.....	47.6	43.9	( 75.2)	50.2	46.3	76.4
1951.....	49.0	45.6	( 73.1)	51.4	47.8	74.4
1952.....	49.6	46.1	( 74.2)	52.5	48.8	75.5
1953.....	54.7	51.0	( 79.2)	58.0	54.4	80.1
1954.....	60.8	57.0	( 85.6)	63.4	59.6	86.5
1955.....	64.2	59.9	( 94.9)	67.2	62.8	95.2
1956.....	67.6	62.9	(100.3)	69.8	64.9	101.0
1957.....	65.6	61.6	( 92.4)	64.9	60.5	92.9
1958.....	67.8	64.7	( 86.3)	68.2	64.8	86.7
1959.....	72.7	68.7	( 98.1)	74.2	70.1	98.4
1960.....	71.9	68.7	( 91.6)	72.6	69.1	91.9
1961.....	79.6	76.4	( 96.9)	79.4	76.1	96.8
1962.....	84.4	81.3	(101.0)	84.4	81.2	101.2
1963.....	89.4	87.3	(100.2)	89.9	87.9	100.3
1964.....	92.4	91.8	( 95.7)	94.3	93.9	96.2
1965.....	95.2	94.7	( 97.7)	95.7	95.1	97.8
1966.....	99.8	99.6	(101.2)	101.5	101.7	100.8
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	110.9	110.1	(114.1)	112.8	112.2	115.6
1969.....	112.3	111.8	(114.4)	115.5	114.8	119.0
1970.....	110.3	111.3	(106.3)	112.9	112.7	113.3
1971.....	121.5	121.9	(120.1)	124.7	124.4	125.8
1972.....	123.7	122.9	(126.9)	126.5	125.6	130.6
1973.....	129.2	129.2	(129.0)	132.3	132.1	133.0
1974.....	117.9	118.4	(115.9)	119.8	119.9	119.5
1975 <sup>4/</sup> .....	109.7	110.8	(105.0)	109.8	110.2	108.1
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75....	4.1	4.5	( 1.8)	3.9	4.3	1.9
1970-75....	-0.2	-0.2	( -0.4)	-0.6	-0.5	-1.1

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 73. HYDRAULIC CEMENT SIC 3241  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	36.1	(2/)	90.2	(2/)	86.8	91.3	68.6
1947.....	55.7	134.1	146.4	( 80.6)	123.7	134.8	78.5
1948.....	61.0	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	61.3	130.2	140.6	( 84.2)	122.9	132.7	82.5
1950.....	66.0	138.8	150.5	( 87.8)	131.6	142.6	86.4
1951.....	70.2	143.3	154.0	( 96.0)	136.5	146.8	94.3
1952.....	70.9	142.9	153.7	( 95.6)	135.1	145.2	93.9
1953.....	74.9	137.0	146.8	( 94.6)	129.1	137.8	93.5
1954.....	77.4	127.2	135.7	( 90.4)	122.0	129.8	89.5
1955.....	84.1	130.9	140.5	( 88.6)	125.1	134.0	88.3
1956.....	88.7	131.2	141.0	( 88.4)	127.1	136.6	87.8
1957.....	82.7	126.1	134.3	( 89.5)	127.5	136.8	89.0
1958.....	86.0	126.8	133.0	( 99.6)	126.1	132.7	99.2
1959.....	93.7	128.8	136.3	( 95.5)	126.2	133.7	95.2
1960.....	87.7	121.9	127.7	( 95.7)	120.8	126.9	95.4
1961.....	88.6	111.3	115.9	( 91.4)	111.6	116.5	91.5
1962.....	92.0	109.0	113.1	( 91.1)	109.0	113.3	90.9
1963.....	96.2	107.6	110.2	( 96.0)	107.0	109.5	95.9
1964.....	100.2	108.4	109.2	(104.7)	106.3	106.7	104.2
1965.....	101.3	106.4	107.0	(103.7)	105.9	106.5	103.6
1966.....	104.4	104.6	104.8	(103.2)	102.9	102.7	103.6
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.6	96.1	96.8	( 93.4)	94.5	95.0	92.2
1969.....	107.8	96.0	96.4	( 94.2)	93.3	93.9	90.6
1970.....	104.5	94.7	93.9	( 98.3)	92.6	92.7	92.2
1971.....	110.1	90.6	90.3	( 91.7)	88.3	88.5	87.5
1972.....	116.4	94.1	94.7	( 91.7)	92.0	92.7	89.1
1973.....	120.5	93.3	93.3	( 93.4)	91.1	91.2	90.6
1974.....	113.9	96.6	96.2	( 98.3)	95.1	95.0	95.3
1975 <sup>3/</sup> .....	96.3	87.8	86.9	( 91.7)	87.7	87.4	89.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	2.0	-2.0	-2.4	( 0.2)	-1.9	-2.2	0.1
1970-75.....	-0.8	-0.6	-0.6	( -0.3)	-0.2	-0.3	0.3

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 74. STRUCTURAL CLAY PRODUCTS SIC 325  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	75.7	74.2	( 84.2)	74.1	72.2	84.8
1959.....	81.2	79.0	( 95.1)	80.6	78.0	95.8
1960.....	83.5	81.6	( 95.5)	81.6	79.2	96.2
1961.....	86.5	84.2	(100.5)	84.4	81.7	100.5
1962.....	93.1	90.5	(108.9)	91.9	89.0	109.4
1963.....	89.5	87.8	( 99.3)	89.9	88.1	99.6
1964.....	95.7	94.8	(100.9)	98.7	98.1	101.6
1965.....	97.4	95.9	(106.8)	98.3	96.7	106.9
1966.....	99.3	97.6	(108.7)	100.6	99.0	108.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.4	106.9	(103.8)	107.3	107.6	105.4
1969.....	107.2	108.1	(102.6)	108.7	109.1	106.7
1970.....	112.8	117.7	( 92.8)	114.3	118.1	98.9
1971.....	122.8	128.4	(100.4)	124.5	129.4	105.5
1972.....	127.3	128.9	(119.4)	128.4	129.6	123.3
1973.....	131.2	130.9	(132.6)	131.7	130.6	137.5
1974.....	133.5	135.0	(125.7)	134.9	135.8	130.6
1975 <sup>3/</sup> .....	132.1	137.6	(109.2)	132.3	137.0	113.4
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	3.4	3.7	( 1.4)	3.5	3.9	1.7
1970-75.....	3.1	2.7	( 4.7)	2.9	2.6	4.2

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 75. STRUCTURAL CLAY PRODUCTS SIC 325  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	86.4	114.2	116.5	(102.6)	116.6	119.6	101.9
1959.....	101.4	124.8	128.4	(106.6)	125.8	130.0	105.8
1960.....	101.8	121.9	124.8	(106.6)	124.7	128.6	105.8
1961.....	101.5	117.4	120.6	(101.0)	120.2	124.2	101.0
1962.....	107.3	115.2	118.5	( 98.5)	116.7	120.6	98.1
1963.....	96.7	108.0	110.1	( 97.4)	107.6	109.8	97.1
1964.....	106.5	111.3	112.4	(105.6)	107.9	108.6	104.8
1965.....	108.9	111.8	113.6	(102.0)	110.8	112.6	101.9
1966.....	108.7	109.5	111.4	(100.0)	108.1	109.8	100.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.5	100.1	99.6	(102.6)	99.3	99.0	101.0
1969.....	107.8	100.6	99.7	(105.1)	99.2	98.8	101.0
1970.....	99.9	88.6	84.9	(107.7)	87.4	84.6	101.0
1971.....	103.5	84.3	80.6	(103.1)	83.1	80.0	98.1
1972.....	110.2	86.6	85.5	( 92.3)	85.8	85.0	89.4
1973.....	112.3	85.6	85.8	( 84.7)	85.3	86.0	81.7
1974.....	116.8	87.5	86.5	( 92.9)	86.6	86.0	89.4
1975 <sup>2/</sup> .....	95.9	72.6	69.7	( 87.8)	72.5	70.0	84.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	0.6	-2.7	-3.0	( -0.8)	-2.8	-3.2	-1.1
1970-75.....	0.5	-2.5	-2.2	( -4.0)	-2.3	-2.0	-3.5

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 76. CLAY CONSTRUCTION PRODUCTS SIC 3251,3253,3259  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	76.3	74.8	( 85.5)	74.7	72.7	86.2
1959.....	81.5	80.0	( 90.4)	81.3	79.6	91.1
1960.....	84.4	83.2	( 91.4)	83.0	81.6	91.6
1961.....	86.6	85.1	( 96.6)	85.2	83.3	96.6
1962.....	93.5	91.7	(105.3)	93.0	90.8	105.8
1963.....	89.3	88.0	( 97.5)	89.3	87.8	97.7
1964.....	95.5	95.1	( 98.1)	98.1	98.0	98.7
1965.....	97.7	96.6	(104.1)	97.8	96.6	104.5
1966.....	98.7	97.4	(107.0)	99.8	98.5	107.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.2	107.1	(107.5)	107.7	107.5	108.9
1969.....	106.0	106.5	(104.1)	107.5	107.4	108.2
1970.....	113.5	117.0	( 96.8)	114.3	116.6	103.3
1971.....	126.7	130.3	(109.5)	128.2	131.3	115.2
1972.....	130.4	130.7	(128.3)	130.9	130.4	133.1
1973.....	132.5	132.2	(134.6)	131.6	130.1	139.5
1974.....	129.6	131.2	(121.9)	130.1	130.9	126.5
1975 <sup>3/</sup> .....	133.8	138.6	(112.4)	132.8	136.7	116.3
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	3.4	3.6	( 1.9)	3.5	3.7	2.2
1970-75.....	2.6	2.5	( 3.2)	2.3	2.3	2.7

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 77. CLAY CONSTRUCTION PRODUCTS SIC 3251,3253,3259  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	90.6	118.8	121.1	(106.0)	121.3	124.6	105.1
1959.....	106.1	130.2	132.6	(117.4)	130.5	133.3	116.5
1960.....	106.7	126.4	128.2	(116.8)	128.5	130.8	116.5
1961.....	106.4	122.8	125.1	(110.1)	124.9	127.8	110.1
1962.....	113.8	121.7	124.1	(108.1)	122.4	125.3	107.6
1963.....	100.1	112.1	113.8	(102.7)	112.1	114.0	102.5
1964.....	110.0	115.2	115.7	(112.1)	112.1	112.3	111.4
1965.....	111.1	113.7	115.0	(106.7)	113.6	115.0	106.3
1966.....	108.4	109.8	111.3	(101.3)	108.6	110.0	101.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.5	100.3	100.4	(100.0)	99.8	100.0	98.7
1969.....	105.5	99.5	99.1	(101.3)	98.1	98.2	97.5
1970.....	96.8	85.3	82.7	(100.0)	84.7	83.0	93.7
1971.....	103.6	81.8	79.5	( 94.6)	80.8	78.9	89.9
1972.....	111.1	85.2	85.0	( 86.6)	84.9	85.2	83.5
1973.....	111.2	83.9	84.1	( 82.6)	84.5	85.5	79.7
1974.....	108.9	84.0	83.0	( 89.3)	83.7	83.2	86.1
1975 <sup>2/</sup> .....	89.8	67.1	64.8	( 79.9)	67.6	65.7	77.2
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	( <sup>3/</sup> )	-3.3	-3.5	( -1.9)	-3.4	-3.6	-2.1
1970-75.....	-0.6	-3.2	-3.1	( -3.8)	-2.9	-2.8	-3.2

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

<sup>3/</sup> Less than .05 percent.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 78. CLAY REFRACTORIES SIC 3255  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	72.3	71.8	( 74.4)	70.7	69.6	75.7
1959.....	80.1	74.6	(114.0)	76.4	70.5	114.4
1960.....	79.7	74.3	(113.4)	74.3	68.4	113.9
1961.....	85.4	80.7	(112.7)	79.6	74.2	113.2
1962.....	91.1	86.1	(119.2)	85.3	79.6	119.4
1963.....	90.4	87.8	(102.3)	91.5	88.9	103.5
1964.....	96.9	94.4	(108.6)	100.3	98.2	110.0
1965.....	96.3	93.0	(112.2)	100.3	97.4	114.0
1966.....	101.8	98.9	(115.3)	103.8	101.3	114.9
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.5	106.5	( 92.9)	105.2	108.1	95.1
1969.....	111.8	115.0	(100.3)	113.8	116.2	104.8
1970.....	110.4	119.1	( 85.1)	115.1	123.3	90.6
1971.....	109.3	121.1	( 78.4)	112.3	122.8	83.4
1972.....	116.4	123.2	( 94.5)	119.9	126.6	98.7
1973.....	125.1	124.8	(126.4)	131.3	131.3	131.5
1974.....	142.1	143.1	(138.5)	148.1	149.0	144.5
1975 <sup>3/</sup> .....	123.5	129.5	(104.0)	128.5	134.7	108.6
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	3.2	4.0	( 0.2)	3.9	4.7	0.5
1970-75.....	4.1	2.7	( 8.9)	4.3	3.1	8.5

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 79. CLAY REFRACTORIES SIC 3255  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	69.6	96.2	96.9	( 93.6)	98.4	100.0	92.0
1959.....	82.4	102.9	110.4	( 72.3)	107.9	116.8	72.0
1960.....	82.0	102.9	110.4	( 72.3)	110.3	119.8	72.0
1961.....	81.5	95.4	101.0	( 72.3)	102.4	109.9	72.0
1962.....	81.2	89.1	94.3	( 68.1)	95.2	102.0	68.0
1963.....	82.8	91.6	94.3	( 80.9)	90.5	93.1	80.0
1964.....	92.4	95.4	97.9	( 85.1)	92.1	94.1	84.0
1965.....	100.3	104.2	107.8	( 89.4)	100.0	103.0	88.0
1966.....	110.3	108.4	111.5	( 95.7)	106.3	108.9	96.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	102.7	99.2	96.4	(110.6)	97.6	95.0	108.0
1969.....	117.4	105.0	102.1	(117.0)	103.2	101.0	112.0
1970.....	112.3	101.7	94.3	(131.9)	97.6	91.1	124.0
1971.....	103.4	94.6	85.4	(131.9)	92.1	84.2	124.0
1972.....	106.6	91.6	86.5	(112.8)	88.9	84.2	108.0
1973.....	115.7	92.5	92.7	( 91.5)	88.1	88.1	88.0
1974.....	144.5	101.7	101.0	(104.3)	97.6	97.0	100.0
1975 <sup>2/</sup> .....	117.3	95.0	90.6	(112.8)	91.3	87.1	108.0
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	3.2	-0.1	-0.8	( 3.0)	-0.7	-1.4	2.6
1970-75.....	3.8	-0.3	1.1	( -4.7)	-0.5	0.7	-4.3

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 80. CONCRETE PRODUCTS SIC 3271,3272  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	44.1	39.1	( 91.5)	46.4	40.3	94.6
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	50.4	47.7	( 66.8)	52.4	49.0	68.3
1950.....	56.6	55.0	( 65.9)	58.8	56.6	67.1
1951.....	59.5	57.8	( 69.6)	63.9	61.9	71.2
1952.....	64.0	61.6	( 78.0)	67.5	64.6	79.8
1953.....	65.7	63.5	( 78.2)	67.0	64.0	79.4
1954.....	67.3	67.9	( 67.5)	67.8	67.7	68.5
1955.....	71.3	71.3	( 73.8)	71.3	70.4	74.4
1956.....	77.7	77.9	( 80.0)	79.1	78.7	80.8
1957.....	76.1	77.1	( 75.1)	76.6	76.8	75.9
1958.....	75.0	76.8	( 71.0)	74.0	74.7	71.7
1959.....	76.2	75.5	( 82.0)	77.8	76.4	82.7
1960.....	73.0	72.0	( 79.6)	76.7	75.7	80.1
1961.....	74.5	73.9	( 79.3)	78.4	78.1	79.6
1962.....	75.9	75.1	( 82.1)	80.5	79.9	82.6
1963.....	82.2	83.5	( 80.5)	84.4	85.7	80.9
1964.....	87.1	89.0	( 83.2)	89.9	91.9	83.9
1965.....	90.5	92.1	( 88.0)	91.8	92.8	88.4
1966.....	95.9	99.4	( 88.1)	95.5	98.0	88.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.0	108.5	(106.7)	109.0	109.2	108.3
1969.....	106.8	107.8	(103.3)	109.5	110.0	107.7
1970.....	104.4	105.3	(101.3)	107.1	106.7	108.4
1971.....	111.7	113.9	(103.9)	111.4	111.9	109.6
1972.....	113.7	116.3	(105.0)	113.4	114.9	108.7
1973.....	115.1	118.3	(104.7)	115.9	118.3	108.5
1974 <sup>4/</sup> .....	115.0	117.9	(105.4)	114.6	116.3	109.1
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	3.0	3.2	( 2.0)	2.8	3.0	2.1
1970-74.....	2.3	2.7	( 0.9)	1.8	2.3	(5/)

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

<sup>5/</sup> Less than .05 percent.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 81. CONCRETE PRODUCTS SIC 3271,3272  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	27.9	63.2	71.3	( 30.5)	60.1	69.2	29.5
1948.....	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	36.2	71.8	75.9	( 54.2)	69.1	73.9	53.0
1950.....	45.9	81.1	83.4	( 69.7)	78.1	81.1	68.4
1951.....	53.4	89.7	92.4	( 76.7)	83.6	86.2	75.0
1952.....	57.6	90.0	93.5	( 73.8)	85.3	89.2	72.2
1953.....	50.9	77.5	80.1	( 65.1)	76.0	79.5	64.1
1954.....	52.6	78.1	77.5	( 77.9)	77.6	77.7	76.8
1955.....	60.7	85.1	85.1	( 82.2)	85.1	86.2	81.6
1956.....	71.1	91.5	91.3	( 88.9)	89.9	90.4	88.0
1957.....	68.7	90.3	89.1	( 91.5)	89.7	89.4	90.5
1958.....	65.6	87.5	85.4	( 92.4)	88.6	87.8	91.5
1959.....	70.6	92.6	93.5	( 86.1)	90.8	92.4	85.4
1960.....	71.4	97.8	99.1	( 89.7)	93.1	94.3	89.1
1961.....	71.6	96.1	96.9	( 90.3)	91.3	91.7	90.0
1962.....	74.0	97.5	98.6	( 90.1)	91.9	92.6	89.6
1963.....	82.5	100.4	98.8	(102.5)	97.7	96.3	102.0
1964.....	89.9	103.2	101.0	(108.1)	100.0	97.8	107.1
1965.....	97.9	108.2	106.3	(111.2)	106.6	105.5	110.8
1966.....	104.2	108.6	104.8	(118.3)	109.1	106.3	118.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.9	100.8	100.4	(102.1)	99.9	99.7	100.6
1969.....	111.9	104.8	103.8	(108.3)	102.2	101.7	103.9
1970.....	116.3	111.4	110.4	(114.8)	108.6	109.0	107.3
1971.....	123.6	110.7	108.5	(119.0)	111.0	110.5	112.8
1972.....	131.8	115.9	113.3	(125.5)	116.2	114.7	121.2
1973.....	139.4	121.1	117.8	(133.2)	120.3	117.8	128.5
1974 <u>3/</u> .....	121.9	106.0	103.4	(115.7)	106.4	104.8	111.7
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	4.5	1.5	1.3	( 2.4)	1.6	1.4	2.3
1970-74.....	2.2	-0.1	-0.5	( 1.3)	0.4	-0.1	2.1

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Not available.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 82. READY-MIXED CONCRETE SIC 3273  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR, OUTPUT PER EMPLOYEE, OUTPUT,  
EMPLOYEE-HOURS, AND EMPLOYEES  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEE-HOURS	EMPLOYEES
1958.....	81.6	79.6	66.4	81.4	83.4
1959.....	83.4	81.7	74.1	88.9	90.7
1960.....	82.0	83.0	72.2	88.0	87.0
1961.....	80.9	83.0	72.8	90.0	87.7
1962.....	83.0	83.8	75.0	90.4	89.5
1963.....	90.3	92.0	88.3	97.8	96.0
1964.....	90.8	92.4	89.6	98.7	97.0
1965.....	95.1	94.7	96.9	101.9	102.3
1966.....	95.6	95.0	96.1	100.5	101.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	103.0	102.2	100.3	97.4	98.1
1969.....	98.6	101.1	101.6	103.0	100.5
1970.....	96.0	94.2	96.6	100.6	102.6
1971.....	102.5	96.9	99.8	97.4	103.0
1972.....	104.8	103.0	118.4	113.0	115.0
1973.....	109.0	105.4	122.3	112.2	116.0
1974 <u>1</u> /.....	105.7	102.2	119.6	113.2	117.0
AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	1.9	1.7	3.6	1.7	1.9
1970-74.....	2.6	2.5	6.5	3.8	3.9

1/ Preliminary.

Source: Output based on data from the Bureau of the Census and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census.

TABLE 83. STEEL SIC 331  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	70.3	64.7	(108.4)	68.6	62.8	110.1
1948.....	70.7	65.1	(108.9)	69.8	63.9	110.5
1949.....	71.1	66.8	( 97.6)	68.2	63.3	98.8
1950.....	78.3	72.5	(117.4)	78.0	71.9	118.8
1951.....	78.7	72.8	(118.9)	80.1	73.9	120.0
1952.....	79.2	75.0	(102.5)	79.0	74.6	103.4
1953.....	81.0	76.0	(110.0)	81.6	76.5	110.8
1954.....	77.2	74.1	( 93.7)	73.4	69.6	94.3
1955.....	87.8	82.4	(120.0)	88.5	82.9	120.7
1956.....	86.4	82.3	(108.8)	87.1	82.8	109.4
1957.....	84.3	81.6	( 97.3)	82.4	79.3	98.0
1958.....	77.9	78.4	( 76.0)	73.8	73.1	76.5
1959.....	87.5	87.7	( 86.7)	87.4	87.4	87.3
1960.....	82.3	82.3	( 82.4)	79.0	78.0	82.7
1961.....	84.9	85.4	( 83.0)	82.7	82.5	83.2
1962.....	89.2	89.6	( 87.9)	87.4	87.2	87.9
1963.....	93.2	92.1	( 98.1)	93.2	91.9	98.1
1964.....	97.2	94.8	(108.6)	99.2	97.0	108.6
1965.....	101.1	98.7	(112.9)	103.3	101.0	112.9
1966.....	103.2	101.3	(111.6)	104.8	103.1	111.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.5	104.7	( 98.8)	105.8	106.5	102.6
1969.....	104.0	104.8	(100.8)	107.0	107.6	104.7
1970.....	101.1	102.8	( 95.0)	101.5	102.1	98.7
1971.....	104.9	107.3	( 96.3)	104.9	106.3	99.5
1972.....	110.9	112.2	(106.3)	113.7	114.3	111.1
1973.....	123.6	123.5	(123.9)	128.3	128.0	129.7
1974.....	123.2	123.9	(120.1)	127.0	127.4	125.4
1975 <sup>3/</sup> .....	108.9	113.3	( 93.7)	107.5	110.8	95.9
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	1.7	2.1	(4/)	1.9	2.3	0.2
1970-75.....	2.8	2.9	( 2.2)	2.8	3.1	2.0

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<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

<sup>4/</sup> Less than .05 percent.

Source: Output based on data from the American Iron and Steel Institute, and the Bureau of Mines, U.S. Department of the Interior. Employment and hours based on data from the Bureau of Labor Statistics.

TABLE 84. STEEL SIC 331  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	70.8	100.7	109.4	( 65.3)	103.2	112.8	64.3
1948.....	74.5	105.4	114.5	( 68.4)	106.8	116.6	67.4
1949.....	65.5	92.1	98.1	( 67.1)	96.0	103.5	66.3
1950.....	82.8	105.7	114.2	( 70.5)	106.1	115.2	69.7
1951.....	90.0	114.3	123.7	( 75.7)	112.4	121.8	75.0
1952.....	79.3	100.1	105.7	( 77.4)	100.4	106.3	76.7
1953.....	93.2	115.1	122.6	( 84.7)	114.2	121.8	84.1
1954.....	74.6	96.6	100.7	( 79.6)	101.6	107.2	79.1
1955.....	98.4	112.1	119.4	( 82.0)	111.2	118.7	81.5
1956.....	96.8	112.0	117.6	( 89.0)	111.2	116.9	88.5
1957.....	93.4	110.8	114.5	( 96.0)	113.3	117.8	95.3
1958.....	69.8	89.6	89.0	( 91.8)	94.6	95.5	91.2
1959.....	80.8	92.3	92.1	( 93.2)	92.4	92.5	92.6
1960.....	81.0	98.4	98.4	( 98.3)	102.5	103.8	97.9
1961.....	77.5	91.3	90.8	( 93.4)	93.7	93.9	93.2
1962.....	81.5	91.4	91.0	( 92.7)	93.3	93.5	92.7
1963.....	86.5	92.8	93.9	( 88.2)	92.8	94.1	88.2
1964.....	98.2	101.0	103.6	( 90.4)	99.0	101.2	90.4
1965.....	106.8	105.6	108.2	( 94.6)	103.4	105.7	94.6
1966.....	107.5	104.2	106.1	( 96.3)	102.6	104.3	96.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.9	102.3	101.1	(107.2)	100.1	99.4	103.2
1969.....	108.5	104.3	103.5	(107.6)	101.4	100.8	103.6
1970.....	100.4	99.3	97.7	(105.7)	98.9	98.3	101.7
1971.....	95.5	91.0	89.0	( 99.2)	91.0	89.8	96.0
1972.....	102.4	92.3	91.3	( 96.3)	90.1	89.6	92.2
1973.....	121.9	98.6	98.7	( 98.4)	95.0	95.2	94.0
1974.....	121.8	98.9	98.3	(101.4)	95.9	95.6	97.1
1975 <sup>2/</sup> .....	92.2	84.7	81.4	( 98.4)	85.8	83.2	96.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	1.2	-0.5	-0.9	( 1.2)	-0.7	-1.0	1.0
1970-75.....	1.4	-1.4	-1.5	( -0.8)	-1.4	-1.7	-0.7

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output based on data from the American Iron and Steel Institute, and the Bureau of Mines, U.S. Department of the Interior. Employment and hours based on data from the Bureau of Labor Statistics.



TABLE 85. GRAY IRON FOUNDRIES SIC 3321  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1954.....	78.2	77.2	( 87.2)	75.5	73.9	87.7
1955.....	84.3	82.3	(101.7)	86.0	84.1	101.8
1956.....	83.8	82.6	( 92.2)	83.3	81.9	92.6
1957.....	81.3	81.3	( 81.6)	77.4	76.7	81.9
1958.....	84.3	86.4	( 72.9)	77.8	78.6	73.1
1959.....	87.1	87.2	( 87.2)	85.6	85.4	87.3
1960.....	86.6	87.9	( 78.5)	82.2	82.7	78.8
1961.....	88.7	90.4	( 79.0)	83.3	84.0	79.1
1962.....	92.2	92.8	( 88.4)	90.4	90.6	89.0
1963.....	94.1	94.1	( 95.0)	95.3	95.2	95.5
1964.....	100.1	99.0	(108.1)	105.1	104.7	109.2
1965.....	104.9	103.9	(113.4)	111.1	110.5	114.1
1966.....	105.6	104.7	(112.8)	110.0	109.6	113.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.1	106.2	(105.1)	109.0	109.1	108.7
1969.....	111.4	111.3	(112.0)	114.5	114.4	115.1
1970.....	105.8	107.4	( 95.8)	103.9	104.8	98.3
1971.....	113.0	115.4	( 99.1)	111.3	113.1	101.6
1972.....	118.9	120.3	(110.0)	121.6	123.2	112.3
1973.....	124.3	125.2	(118.3)	127.4	128.4	121.3
1974.....	127.8	129.3	(118.3)	128.4	129.5	121.1
1975 <sub>3/</sub> .....	112.7	116.4	( 91.9)	108.0	110.5	94.2
	AVERAGE ANNUAL RATES (PERCENT)					
1954-75.....	2.2	2.3	( 1.4)	2.4	2.5	1.5
1970-75.....	2.1	2.3	( 1.1)	1.9	2.1	1.1

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 86. GRAY IRON FOUNDRIES SIC 3321  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1954.....	73.3	93.7	95.0	( 84.1)	97.1	99.2	83.6
1955.....	90.2	107.0	109.6	( 88.7)	104.9	107.3	88.6
1956.....	86.1	102.8	104.2	( 93.4)	103.4	105.1	93.0
1957.....	76.3	93.8	93.8	( 93.5)	98.6	99.5	93.2
1958.....	63.5	75.3	73.5	( 87.1)	81.6	80.8	86.9
1959.....	78.1	89.7	89.6	( 89.6)	91.2	91.5	89.5
1960.....	72.4	83.6	82.4	( 92.2)	88.1	87.5	91.9
1961.....	68.6	77.3	75.9	( 86.8)	82.4	81.7	86.7
1962.....	78.1	84.7	84.2	( 88.3)	86.4	86.2	87.8
1963.....	83.2	88.4	88.4	( 87.6)	87.3	87.4	87.1
1964.....	96.3	96.2	97.3	( 89.1)	91.6	92.0	88.2
1965.....	108.5	103.4	104.4	( 95.7)	97.7	98.2	95.1
1966.....	112.2	106.3	107.2	( 99.5)	102.0	102.4	99.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.5	101.3	101.2	(102.3)	98.6	98.5	98.9
1969.....	119.4	107.2	107.3	(106.6)	104.3	104.4	103.7
1970.....	106.2	100.4	98.9	(110.9)	102.2	101.3	108.0
1971.....	107.0	94.7	92.7	(108.0)	96.1	94.6	105.3
1972.....	122.0	102.6	101.4	(110.9)	100.3	99.0	108.6
1973.....	140.7	113.2	112.4	(118.9)	110.4	109.6	116.0
1974.....	141.2	110.5	109.2	(119.4)	110.0	109.0	116.6
1975 <sup>2/</sup> .....	104.8	93.0	90.0	(114.0)	97.0	94.8	111.2
AVERAGE ANNUAL RATES (PERCENT)							
1954-75.....	2.9	0.8	0.6	( 1.6)	0.5	0.4	1.4
1970-75.....	2.6	0.5	0.4	( 1.5)	0.7	0.6	1.5

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 87. STEEL FOUNDRIES SIC 3324,3325  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1954.....	78.2	79.4	( 71.4)	73.3	73.5	71.8
1955.....	85.9	84.9	( 91.3)	85.9	84.7	91.4
1956.....	90.8	88.2	(107.8)	92.6	90.0	108.2
1957.....	88.8	87.8	( 94.8)	87.5	86.1	95.1
1958.....	81.0	83.7	( 68.6)	75.1	76.5	68.7
1959.....	87.1	86.6	( 90.3)	84.5	83.4	90.2
1960.....	86.3	87.1	( 82.3)	83.1	83.2	82.4
1961.....	87.3	88.7	( 80.4)	83.6	84.2	80.4
1962.....	91.6	91.8	( 91.5)	90.1	89.8	91.9
1963.....	97.5	97.2	( 99.5)	96.3	95.6	99.9
1964.....	97.9	95.9	(109.5)	100.0	98.1	110.5
1965.....	100.5	98.4	(113.0)	103.7	101.9	113.5
1966.....	102.1	100.1	(114.4)	106.5	104.9	114.4
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	97.5	99.4	( 88.4)	96.6	97.7	91.3
1969.....	99.5	100.3	( 95.1)	99.9	100.3	97.5
1970.....	96.2	97.9	( 87.9)	94.9	96.0	90.0
1971.....	100.4	104.7	( 82.1)	98.3	101.6	84.1
1972.....	106.1	109.3	( 91.4)	103.7	106.1	93.2
1973.....	107.4	109.5	( 97.6)	107.0	108.4	99.8
1974.....	118.6	119.9	(112.3)	116.8	117.1	115.1
1975 <u>3/</u> .....	113.2	115.6	(102.0)	109.9	111.0	104.6
	AVERAGE ANNUAL RATES (PERCENT)					
1954-75.....	1.5	1.6	( 0.8)	1.6	1.7	0.9
1970-75.....	3.9	3.6	( 5.1)	3.7	3.4	5.2

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 88. STEEL FOUNDRIES SIC 3324,3325  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1954.....	58.3	74.6	73.4	( 81.6)	79.5	79.3	81.2
1955.....	74.7	87.0	88.0	( 81.8)	87.0	88.2	81.7
1956.....	94.2	103.8	106.8	( 87.4)	101.7	104.7	87.1
1957.....	85.3	96.1	97.2	( 90.0)	97.5	99.1	89.7
1958.....	53.3	65.8	63.7	( 77.7)	71.0	69.7	77.6
1959.....	66.0	75.8	76.2	( 73.1)	78.1	79.1	73.2
1960.....	61.0	70.7	70.0	( 74.1)	73.4	73.3	74.0
1961.....	56.5	64.7	63.7	( 70.3)	67.6	67.1	70.3
1962.....	65.8	71.8	71.7	( 71.9)	73.0	73.3	71.6
1963.....	79.1	81.1	81.4	( 79.5)	82.1	82.7	79.2
1964.....	89.6	91.5	93.4	( 81.8)	89.6	91.3	81.1
1965.....	98.2	97.7	99.8	( 86.9)	94.7	96.4	86.5
1966.....	108.9	106.7	108.8	( 95.2)	102.3	103.8	95.2
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	92.9	95.3	93.5	(105.1)	96.2	95.1	101.7
1969.....	100.0	100.5	99.7	(105.2)	100.1	99.7	102.6
1970.....	83.8	87.1	85.6	( 95.3)	88.3	87.3	93.1
1971.....	80.5	80.2	76.9	( 98.0)	81.9	79.2	95.7
1972.....	86.8	81.8	79.4	( 95.0)	83.7	81.8	93.1
1973.....	93.8	87.3	85.7	( 96.1)	87.7	86.5	94.0
1974.....	112.1	94.5	93.5	( 99.8)	96.0	95.7	97.4
1975 <sup>2/</sup> .....	103.7	91.6	89.7	(101.7)	94.4	93.4	99.1
AVERAGE ANNUAL RATES (PERCENT)							
1954-75.....	2.2	0.7	0.6	( 1.4)	0.6	0.5	1.3
1970-75.....	6.3	2.3	2.6	( 1.1)	2.5	2.8	1.1

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 89. PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	61.6	(3/)	(3/)	61.6	(3/)
1947.....	71.0	63.4	(138.9)	75.8	67.5	142.4
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	74.5	69.3	(107.2)	76.5	70.8	108.6
1950.....	82.4	75.8	(127.6)	85.4	78.3	129.2
1951.....	83.8	78.0	(120.1)	87.9	81.8	121.9
1952.....	85.5	79.5	(123.1)	90.0	83.6	125.0
1953.....	85.1	78.6	(129.4)	89.5	82.5	130.6
1954.....	84.4	80.7	(104.0)	83.0	78.6	104.7
1955.....	94.1	88.6	(125.7)	95.1	89.2	125.7
1956.....	95.5	89.1	(134.8)	97.7	90.9	135.2
1957.....	96.0	90.7	(125.5)	96.2	90.4	125.9
1958.....	94.1	91.4	(106.9)	92.8	89.7	107.1
1959.....	88.5	86.7	( 97.0)	85.9	83.4	97.1
1960.....	98.7	94.4	(121.3)	99.0	94.3	121.5
1961.....	103.2	99.0	(125.2)	104.4	99.9	125.2
1962.....	109.6	104.8	(135.2)	110.6	105.4	135.9
1963.....	112.2	106.4	(143.3)	112.1	105.9	143.9
1964.....	116.6	110.2	(152.7)	115.4	108.0	154.1
1965.....	120.2	113.1	(161.5)	121.1	113.3	162.4
1966.....	118.7	111.6	(159.8)	120.7	113.3	159.8
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	117.8	112.8	(143.5)	117.8	111.8	147.7
1969.....	120.7	113.8	(160.4)	121.4	113.6	163.8
1970.....	116.7	111.4	(144.3)	117.7	111.6	148.2
1971.....	121.4	119.2	(131.2)	120.8	117.6	134.7
1972.....	135.2	129.4	(165.3)	134.5	127.6	168.7
1973.....	139.9	135.6	(160.2)	137.5	131.9	163.6
1974.....	126.4	125.3	(130.7)	126.0	123.9	134.2
1975 <sup>4/</sup> .....	125.3	126.8	(119.8)	123.1	123.1	122.8
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75....	2.0	2.2	( 0.9)	1.8	2.0	0.9
1970-75....	1.5	2.4	( -2.7)	1.1	2.0	-2.8

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior; Bureau of the Census; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 90. PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	83.8	(2/)	136.0	(2/)	(2/)	136.1	(2/)
1947.....	107.4	151.3	169.5	( 77.3)	141.6	159.2	75.4
1948.....	105.1	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	102.4	137.5	147.8	( 95.5)	133.9	144.6	94.3
1950.....	114.7	139.2	151.3	( 89.9)	134.3	146.4	88.8
1951.....	113.7	135.7	145.8	( 94.7)	129.4	139.0	93.3
1952.....	115.6	135.2	145.4	( 93.9)	128.5	138.2	92.5
1953.....	117.5	138.0	149.5	( 90.8)	131.3	142.4	90.0
1954.....	108.2	128.2	134.1	(104.0)	130.4	137.6	103.3
1955.....	123.1	130.8	139.0	( 97.9)	129.5	138.0	97.9
1956.....	133.6	139.9	149.9	( 99.1)	136.8	147.0	98.8
1957.....	130.4	135.9	143.8	(103.9)	135.6	144.3	103.6
1958.....	112.8	119.9	123.4	(105.5)	121.5	125.7	105.3
1959.....	93.5	105.7	107.9	( 96.4)	108.8	112.1	96.3
1960.....	121.4	123.0	128.6	(100.1)	122.6	128.7	99.9
1961.....	123.2	119.4	124.5	( 98.4)	118.0	123.3	98.4
1962.....	129.4	118.1	123.5	( 95.7)	117.0	122.8	95.2
1963.....	128.1	114.2	120.4	( 89.4)	114.3	121.0	89.0
1964.....	134.5	115.4	122.1	( 88.1)	116.6	124.5	87.3
1965.....	142.1	118.2	125.6	( 88.0)	117.3	125.4	87.5
1966.....	146.1	123.1	130.9	( 91.4)	121.0	128.9	91.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	132.0	112.1	117.0	( 92.0)	112.1	118.1	89.4
1969.....	160.4	132.9	140.9	(100.0)	132.1	141.2	97.9
1970.....	160.8	137.8	144.3	(111.4)	136.6	144.1	108.5
1971.....	146.2	120.4	122.6	(111.4)	121.0	124.3	108.5
1972.....	157.9	116.8	122.0	( 95.5)	117.4	123.7	93.6
1973.....	160.2	114.5	118.1	(100.0)	116.5	121.5	97.9
1974.....	145.6	115.2	116.2	(111.4)	115.6	117.5	108.5
1975 <sup>3/</sup> .....	130.7	104.3	103.1	(109.1)	106.2	106.2	106.4
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	1.2	-0.7	-0.9	( 0.4)	-0.6	-0.8	0.3
1970-75.....	-2.9	-4.3	-5.2	( -0.2)	-3.9	-4.8	-0.2

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior; Bureau of the Census; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 91. PRIMARY ALUMINUM SIC 3334  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	43.6	42.4	( 50.1)	47.2	46.3	51.5
1948.....	(3/)	(3/)	( 3/)	(3/)	(3/)	(3/)
1949.....	44.5	43.0	( 52.7)	50.1	49.3	53.6
1950.....	48.9	47.5	( 57.0)	50.2	48.7	57.7
1951.....	47.8	46.0	( 58.7)	51.5	49.8	59.5
1952.....	46.8	45.6	( 52.8)	49.4	48.4	53.6
1953.....	47.1	44.6	( 63.6)	48.3	45.6	64.2
1954.....	51.8	50.5	( 58.3)	53.7	52.6	58.6
1955.....	57.4	56.3	( 62.8)	59.1	58.3	62.8
1956.....	59.0	58.8	( 59.7)	60.0	60.0	60.0
1957.....	59.2	59.7	( 57.0)	60.3	61.2	57.3
1958.....	65.9	68.2	( 57.2)	67.5	70.5	57.4
1959.....	78.4	78.6	( 77.7)	81.3	82.2	77.8
1960.....	81.9	83.0	( 77.4)	84.0	85.7	77.7
1961.....	85.3	87.5	( 76.8)	87.2	90.3	76.9
1962.....	89.4	90.4	( 84.8)	90.9	92.4	85.3
1963.....	92.5	93.2	( 89.1)	94.0	95.1	89.6
1964.....	95.2	94.4	( 98.7)	92.3	90.6	99.9
1965.....	97.5	97.0	( 99.5)	97.7	97.0	100.1
1966.....	100.9	100.7	(102.1)	102.5	102.6	102.4
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	93.5	94.5	( 89.1)	93.8	94.1	92.5
1969.....	102.3	102.5	(101.7)	103.9	103.7	104.4
1970.....	104.9	106.2	( 99.2)	104.8	105.5	102.1
1971.....	113.8	117.3	(100.7)	112.9	115.4	103.5
1972.....	112.2	116.7	( 95.8)	110.8	114.4	97.9
1973.....	111.1	111.8	(108.4)	111.8	111.8	111.6
1974.....	123.0	123.7	(119.6)	121.8	121.5	123.1
1975 <sup>4/</sup> .....	115.4	120.6	( 96.5)	111.3	114.6	99.3
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	4.2	4.4	( 3.1)	3.9	4.1	3.2
1970-75.....	2.0	2.2	( 1.4)	1.5	1.6	1.5

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 92. PRIMARY ALUMINUM SIC 3334  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	17.7	40.6	41.7	( 35.3)	37.5	38.2	34.4
1948.....	19.4	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	18.8	42.2	43.7	( 35.7)	37.5	38.1	35.1
1950.....	22.5	46.0	47.4	( 39.5)	44.8	46.2	39.0
1951.....	26.3	55.0	57.2	( 44.8)	51.1	52.8	44.2
1952.....	29.6	63.3	64.9	( 56.1)	59.9	61.1	55.2
1953.....	39.7	84.2	89.1	( 62.4)	82.2	87.1	61.8
1954.....	46.5	89.8	92.1	( 79.8)	86.6	88.4	79.3
1955.....	49.7	86.6	88.3	( 79.2)	84.1	85.3	79.1
1956.....	53.2	90.2	90.5	( 89.1)	88.7	88.7	88.6
1957.....	52.0	87.8	87.1	( 91.2)	86.2	85.0	90.8
1958.....	49.3	74.8	72.3	( 86.2)	73.0	69.9	85.9
1959.....	61.5	78.4	78.2	( 79.2)	75.6	74.8	79.0
1960.....	63.0	76.9	75.9	( 81.4)	75.0	73.5	81.1
1961.....	59.4	69.6	67.9	( 77.3)	68.1	65.8	77.2
1962.....	65.8	73.6	72.8	( 77.6)	72.4	71.2	77.1
1963.....	71.6	77.4	76.8	( 80.4)	76.2	75.3	79.9
1964.....	78.8	82.8	83.5	( 79.8)	85.4	87.0	78.9
1965.....	84.8	87.0	87.4	( 85.2)	86.8	87.4	84.7
1966.....	91.0	90.2	90.4	( 89.1)	88.8	88.7	88.9
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	98.5	105.3	104.2	(110.5)	105.0	104.7	106.5
1969.....	113.5	110.9	110.7	(111.6)	109.2	109.4	108.7
1970.....	117.6	112.1	110.7	(118.6)	112.2	111.5	115.2
1971.....	114.8	100.9	97.9	(114.0)	101.7	99.5	110.9
1972.....	119.2	106.2	102.1	(124.4)	107.6	104.2	121.7
1973.....	131.0	117.9	117.2	(120.9)	117.2	117.2	117.4
1974.....	141.8	115.3	114.6	(118.6)	116.4	116.7	115.2
1975 <sup>3/</sup> .....	112.2	97.2	93.0	(116.3)	100.8	97.9	113.0
AVERAGE ANNUAL RATES (PERCENT)							
1950-75....	6.6	2.4	2.1	( 3.4)	2.6	2.5	3.3
1970-75....	1.4	-0.6	-0.7	(4/)	-0.1	-0.2	-0.1

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

<sup>4/</sup> Less than .05 percent.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 93. COPPER ROLLING AND DRAWING SIC 3351  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	71.1	72.1	( 67.1)	70.6	71.6	67.1
1959.....	78.1	77.1	( 82.5)	81.0	80.7	82.4
1960.....	75.4	75.1	( 76.2)	74.7	74.4	76.2
1961.....	81.6	82.9	( 76.7)	82.7	84.4	76.5
1962.....	87.5	88.3	( 84.2)	89.9	91.5	84.5
1963.....	95.7	94.0	(103.6)	99.2	98.0	103.9
1964.....	105.4	103.5	(114.0)	110.2	109.0	115.1
1965.....	111.4	108.9	(123.4)	116.8	115.2	123.7
1966.....	117.7	114.1	(136.3)	125.4	123.1	135.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.8	104.7	( 99.8)	105.5	106.1	103.2
1969.....	110.3	110.5	(109.5)	114.9	115.6	111.9
1970.....	98.6	101.4	( 88.0)	98.8	101.3	90.0
1971.....	109.6	112.0	(100.6)	111.2	113.5	103.1
1972.....	112.2	112.4	(111.0)	117.5	118.6	113.0
1973.....	117.7	117.4	(119.3)	123.6	123.9	122.4
1974.....	106.6	108.6	( 98.6)	109.9	112.6	100.6
1975 <sup>3/</sup> .....	100.9	107.8	( 79.8)	101.8	108.6	81.5
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	2.3	2.5	( 1.5)	2.4	2.6	1.7
1970-75.....	0.2	0.7	( -1.4)	0.5	1.1	-1.4

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census and the Bureau of Domestic Commerce, U.S. Department of Commerce; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 94. COPPER ROLLING AND DRAWING SIC 3351  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	70.7	99.5	98.1	(105.4)	100.1	98.7	105.4
1959.....	86.7	111.0	112.4	(105.1)	107.0	107.4	105.2
1960.....	73.4	97.4	97.7	( 96.3)	98.2	98.7	96.3
1961.....	80.9	99.1	97.6	(105.5)	97.8	95.8	105.7
1962.....	92.0	105.2	104.2	(109.2)	102.3	100.6	108.9
1963.....	95.8	100.1	101.9	( 92.5)	96.6	97.8	92.2
1964.....	108.0	102.5	104.3	( 94.7)	98.0	99.1	93.8
1965.....	114.5	102.8	105.1	( 92.8)	98.0	99.4	92.6
1966.....	127.3	108.2	111.6	( 93.4)	101.5	103.4	93.8
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.4	100.6	99.7	(104.6)	99.0	98.4	101.2
1969.....	117.4	106.4	106.2	(107.2)	102.2	101.6	104.9
1970.....	95.6	97.0	94.3	(108.6)	96.8	94.4	106.2
1971.....	101.9	93.0	91.0	(101.3)	91.6	89.8	98.8
1972.....	110.2	98.2	98.0	( 99.3)	93.8	92.9	97.5
1973.....	122.4	104.0	104.3	(102.6)	99.0	98.8	100.0
1974.....	103.1	96.7	94.9	(104.6)	93.8	91.6	102.5
1975 <sup>2/</sup> .....	74.5	73.8	69.1	( 93.4)	73.2	68.6	91.4
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	1.5	-0.8	-1.0	( <sup>3/</sup> )	-0.9	-1.0	-0.2
1970-75.....	-3.1	-3.3	-3.8	( -1.8)	-3.6	-4.1	-1.7

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

<sup>3/</sup> Less than .05 percent.

Source: Output based on data from the Bureau of the Census and the Bureau of Domestic Commerce, U.S. Department of Commerce; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 95. ALUMINUM ROLLING AND DRAWING SIC 3353,3354,3355  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	63.8	64.9	( 59.3)	63.5	64.6	59.4
1959.....	68.9	67.8	( 73.3)	70.1	69.3	73.3
1960.....	65.2	66.3	( 61.5)	66.0	67.3	61.5
1961.....	71.7	72.2	( 69.6)	72.8	73.7	69.5
1962.....	77.8	78.4	( 76.1)	78.5	79.1	76.5
1963.....	86.3	86.5	( 85.3)	87.2	87.7	85.7
1964.....	91.7	91.9	( 91.0)	93.3	93.6	91.8
1965.....	100.5	100.0	(103.1)	103.8	104.0	103.4
1966.....	101.1	99.4	(109.2)	104.5	103.3	109.2
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.5	105.9	( 99.0)	103.4	103.7	102.2
1969.....	107.4	108.1	(102.0)	107.8	108.5	104.7
1970.....	109.6	114.4	( 93.1)	106.4	109.8	95.3
1971.....	119.9	124.9	(102.9)	115.3	118.2	105.3
1972.....	140.5	141.3	(136.9)	141.3	141.7	139.5
1973.....	154.4	153.8	(157.2)	156.3	155.1	161.0
1974.....	157.8	158.7	(153.8)	154.6	153.9	157.3
1975 <sup>3/</sup> .....	147.5	157.9	(115.0)	139.0	145.8	117.8
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	5.5	5.7	( 4.8)	5.2	5.3	5.0
1970-75.....	7.1	7.1	( 7.1)	6.8	6.8	7.1

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 96. ALUMINUM ROLLING AND DRAWING SIC 3353,3354,3355  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	48.4	75.9	74.6	( 81.6)	76.2	74.9	81.5
1959.....	63.1	91.6	93.0	( 86.1)	90.0	91.1	86.1
1960.....	56.5	86.6	85.2	( 91.8)	85.6	84.0	91.8
1961.....	61.7	86.0	85.4	( 88.7)	84.7	83.7	88.8
1962.....	69.5	89.3	88.7	( 91.3)	88.5	87.9	90.9
1963.....	77.0	89.2	89.0	( 90.3)	88.3	87.8	89.9
1964.....	85.1	92.8	92.6	( 93.5)	91.2	90.9	92.7
1965.....	97.2	96.7	97.2	( 94.3)	93.6	93.5	94.0
1966.....	107.6	106.4	108.3	( 98.5)	103.0	104.2	98.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	111.0	106.2	104.8	(112.1)	107.3	107.0	108.6
1969.....	119.5	111.3	110.5	(117.1)	110.9	110.1	114.1
1970.....	112.5	102.6	98.3	(120.8)	105.7	102.5	118.0
1971.....	120.9	100.8	96.8	(117.5)	104.9	102.3	114.8
1972.....	146.1	104.0	103.4	(106.7)	103.4	103.1	104.7
1973.....	173.6	112.4	112.9	(110.4)	111.1	111.9	107.8
1974.....	164.7	104.4	103.8	(107.1)	106.5	107.0	104.7
1975 <sub>2/</sub> .....	115.9	78.6	73.4	(100.8)	83.4	79.5	98.4
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	6.7	1.2	1.0	( 1.8)	1.4	1.4	1.6
1970-75.....	3.6	-3.2	-3.3	( -3.2)	-3.0	-3.0	-3.2

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output based on data from the Bureau of the Census. Employment and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 97. METAL CANS SIC 3411  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	59.8	60.1	( 58.6)	58.1	57.8	60.4
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	63.1	63.8	( 58.1)	62.3	60.7	59.3
1950.....	70.0	70.2	( 68.0)	68.3	68.2	69.3
1951.....	69.0	69.4	( 66.0)	66.3	66.1	67.2
1952.....	68.8	69.2	( 65.8)	67.1	67.1	67.2
1953.....	71.1	71.5	( 68.3)	67.2	66.8	69.2
1954.....	73.2	73.7	( 70.0)	69.7	69.5	70.7
1955.....	77.5	77.9	( 74.5)	73.9	73.8	74.9
1956.....	80.9	81.0	( 79.9)	78.1	77.8	80.5
1957.....	79.5	80.0	( 75.2)	75.8	75.9	75.8
1958.....	83.4	84.3	( 76.7)	78.4	78.7	77.2
1959.....	86.3	86.7	( 83.3)	84.0	84.0	83.8
1960.....	88.3	88.8	( 83.8)	85.1	85.2	84.2
1961.....	93.2	93.8	( 89.3)	90.3	90.4	89.5
1962.....	90.2	90.3	( 89.2)	89.7	89.7	89.6
1963.....	89.6	89.9	( 86.8)	88.0	88.1	87.2
1964.....	91.5	92.2	( 87.1)	91.2	91.9	87.8
1965.....	94.1	95.6	( 83.3)	96.2	98.4	83.7
1966.....	96.7	96.7	( 96.6)	95.1	94.9	96.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.5	104.6	(104.5)	104.9	105.1	103.1
1969.....	107.1	107.7	(102.9)	105.1	105.3	104.3
1970.....	105.4	106.7	( 96.6)	104.2	104.8	101.0
1971.....	105.1	107.0	( 92.3)	101.5	102.8	93.4
1972.....	108.0	109.1	(100.5)	105.5	106.8	97.8
1973.....	109.5	109.9	(106.4)	107.8	108.4	104.0
1974.....	113.8	116.0	( 99.6)	110.6	113.0	97.5
1975 <sup>4/</sup> .....	122.7	125.8	(103.7)	117.4	120.2	101.2
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	2.2	2.2	( 1.9)	2.3	2.4	1.8
1970-75.....	2.9	3.1	( 1.8)	2.5	2.9	0.6

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Not available.

<sup>4/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 98. METAL CANS SIC 3411  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	45.1	75.4	75.1	( 76.9)	77.6	78.0	74.7
1948.....	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	48.3	76.6	75.7	( 83.1)	77.5	79.6	81.5
1950.....	58.5	83.6	83.3	( 86.0)	85.6	85.8	84.4
1951.....	58.7	85.1	84.6	( 89.0)	88.6	88.8	87.3
1952.....	58.1	84.5	83.9	( 88.3)	86.6	86.6	86.5
1953.....	62.1	87.3	86.8	( 90.9)	92.4	92.9	89.7
1954.....	63.8	87.2	86.6	( 91.2)	91.6	91.8	90.7
1955.....	66.9	86.3	85.9	( 89.8)	90.5	90.6	89.3
1956.....	71.4	88.3	88.1	( 89.4)	91.4	91.8	89.7
1957.....	68.9	86.7	86.1	( 91.6)	90.9	90.8	90.9
1958.....	70.6	84.7	83.7	( 92.1)	90.0	89.7	91.5
1959.....	74.9	86.8	86.4	( 89.9)	89.2	89.2	89.4
1960.....	75.6	85.6	85.1	( 90.2)	88.8	88.7	89.8
1961.....	79.9	85.7	85.2	( 89.5)	88.5	88.4	89.3
1962.....	78.9	87.5	87.4	( 88.5)	88.0	88.0	88.1
1963.....	77.7	86.7	86.4	( 89.5)	88.3	88.2	89.1
1964.....	83.4	91.1	90.5	( 95.8)	91.4	90.8	95.0
1965.....	87.5	93.0	91.5	(105.0)	91.0	88.9	104.5
1966.....	92.6	95.8	95.8	( 95.9)	97.4	97.6	95.9
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	110.8	106.0	105.9	(106.0)	105.6	105.4	107.5
1969.....	113.5	106.0	105.4	(110.3)	108.0	107.8	108.8
1970.....	121.2	115.0	113.6	(125.5)	116.3	115.7	120.0
1971.....	115.6	110.0	108.0	(125.2)	113.9	112.4	123.8
1972.....	119.8	110.9	109.8	(119.2)	113.6	112.2	122.5
1973.....	124.8	114.0	113.6	(117.3)	115.8	115.1	120.0
1974.....	126.8	111.4	109.3	(127.3)	114.6	112.2	130.0
1975 <sup>3/</sup> .....	118.9	96.9	94.5	(114.7)	101.3	98.9	117.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	3.5	1.2	1.2	( 1.5)	1.1	1.1	1.6
1970-75.....	0.6	-2.2	-2.4	( -1.2)	-1.8	-2.2	0.1

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Not available.

<sup>3/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 99. MAJOR HOUSEHOLD APPLIANCES SIC 3631,32,33,39  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	58.3	61.3	( 48.0)	59.4	62.7	49.0
1959.....	63.6	65.1	( 57.4)	64.4	66.1	58.4
1960.....	66.3	68.9	( 56.9)	65.9	68.2	57.6
1961.....	70.6	73.7	( 59.5)	71.4	75.0	59.8
1962.....	76.8	78.3	( 70.8)	79.5	81.6	71.1
1963.....	87.7	87.8	( 87.3)	89.5	89.8	87.6
1964.....	91.4	91.1	( 92.3)	93.9	94.2	92.9
1965.....	94.2	94.3	( 93.6)	97.7	98.5	94.0
1966.....	94.5	93.2	(100.2)	96.1	95.0	100.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.2	104.4	(108.9)	107.0	105.9	111.9
1969.....	108.8	109.6	(106.0)	109.0	109.0	109.4
1970.....	106.3	107.3	(102.0)	107.5	107.8	106.4
1971.....	121.4	123.0	(114.5)	122.7	123.4	119.6
1972.....	133.0	132.7	(134.4)	134.4	133.3	139.5
1973.....	134.9	134.4	(137.0)	135.9	134.3	142.7
1974.....	134.4	136.8	(125.3)	132.2	132.8	130.4
1975 <sup>3/</sup> .....	128.3	135.2	(105.1)	125.0	129.4	109.6
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	5.0	4.9	( 5.5)	4.9	4.6	5.8
1970-75.....	3.7	4.3	( 1.3)	2.9	3.3	1.2

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

3/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 100. MAJOR HOUSEHOLD APPLIANCES SIC 3631,32,33,39  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	53.9	92.4	87.9	(112.2)	90.7	86.0	110.1
1959.....	62.8	98.8	96.4	(109.4)	97.5	95.0	107.5
1960.....	62.5	94.3	90.7	(109.9)	94.8	91.6	108.5
1961.....	61.8	87.5	83.8	(103.9)	86.5	82.4	103.4
1962.....	69.3	90.2	88.5	( 97.9)	87.2	84.9	97.5
1963.....	76.9	87.7	87.6	( 88.1)	85.9	85.6	87.8
1964.....	85.4	93.4	93.7	( 92.5)	90.9	90.7	91.9
1965.....	92.6	98.3	98.2	( 98.9)	94.8	94.0	98.5
1966.....	97.5	103.2	104.6	( 97.3)	101.5	102.6	97.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	110.9	105.4	106.2	(101.8)	103.6	104.7	99.1
1969.....	110.9	101.9	101.2	(104.6)	101.7	101.7	101.4
1970.....	106.9	100.6	99.6	(104.8)	99.4	99.2	100.5
1971.....	101.1	83.3	82.2	( 88.3)	82.4	81.9	84.5
1972.....	117.2	88.1	88.3	( 87.2)	87.2	87.9	84.0
1973.....	127.3	94.4	94.7	( 92.9)	93.7	94.8	89.2
1974.....	113.8	84.7	83.2	( 90.8)	86.1	85.7	87.3
1975 <sup>2/</sup> .....	88.0	68.6	65.1	( 83.7)	70.4	68.0	80.3
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	4.3	-0.7	-0.6	( -1.1)	-0.5	-0.3	-1.3
1970-75.....	-1.5	-5.0	-5.6	( -2.8)	-4.3	-4.7	-2.7

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.



TABLE 101. RADIO AND TELEVISION RECEIVING SETS SIC 3651  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	62.9	66.2	( 50.5)	63.7	67.1	51.5
1959.....	67.2	69.0	( 59.8)	68.1	69.8	60.9
1960.....	68.8	72.3	( 55.8)	69.4	73.0	56.6
1961.....	70.5	75.1	( 54.1)	69.8	74.2	54.4
1962.....	78.5	81.1	( 67.9)	79.2	82.0	68.3
1963.....	87.4	87.9	( 85.2)	88.4	88.9	85.5
1964.....	87.2	87.3	( 86.5)	89.7	90.2	87.3
1965.....	95.5	94.3	(102.3)	99.5	98.8	102.8
1966.....	98.4	95.9	(112.5)	100.4	98.1	112.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.7	108.2	(100.2)	107.3	108.3	102.9
1969.....	102.8	105.8	( 90.3)	104.1	106.8	93.2
1970.....	106.2	115.6	( 75.9)	107.2	115.9	79.3
1971.....	111.6	118.8	( 86.0)	112.6	118.9	89.8
1972.....	132.2	136.0	(116.1)	132.5	135.3	120.5
1973.....	128.4	131.4	(115.9)	127.8	129.2	120.9
1974.....	123.8	132.3	( 93.8)	119.3	125.1	97.7
1975 <sup>3/</sup> .....	113.2	123.2	( 81.3)	111.3	119.1	84.7
	AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	4.2	4.4	( 3.6)	4.0	4.1	3.8
1970-75.....	1.7	1.8	( 1.7)	0.9	0.7	1.7

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 102. RADIO AND TELEVISION RECEIVING SETS SIC 3651  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	36.3	57.7	54.8	( 71.9)	57.0	54.1	70.5
1959.....	43.7	65.0	63.3	( 73.1)	64.2	62.6	71.7
1960.....	42.7	62.1	59.1	( 76.5)	61.5	58.5	75.5
1961.....	45.9	65.1	61.1	( 84.8)	65.8	61.9	84.3
1962.....	56.3	71.7	69.4	( 82.9)	71.1	68.7	82.4
1963.....	61.5	70.4	70.0	( 72.2)	69.6	69.2	71.9
1964.....	66.5	76.3	76.2	( 76.9)	74.1	73.7	76.2
1965.....	85.4	89.4	90.6	( 83.5)	85.8	86.4	83.1
1966.....	111.9	113.7	116.7	( 99.5)	111.5	114.1	99.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.4	96.9	95.6	(103.2)	96.4	95.5	100.5
1969.....	94.1	91.5	88.9	(104.2)	90.4	88.1	101.0
1970.....	82.4	77.6	71.3	(108.5)	76.9	71.1	103.9
1971.....	86.7	77.7	73.0	(100.8)	77.0	72.9	96.6
1972.....	98.2	74.3	72.2	( 84.6)	74.1	72.6	81.5
1973.....	100.8	78.5	76.7	( 87.0)	78.9	78.0	83.4
1974.....	89.6	72.4	67.7	( 95.5)	75.1	71.6	91.7
1975 <u>2/</u> .....	71.1	62.8	57.7	( 87.5)	63.9	59.7	83.9
AVERAGE ANNUAL RATES (PERCENT)							
1958-75.....	5.3	1.0	0.9	( 1.6)	1.2	1.1	1.4
1970-75.....	-1.7	-3.4	-3.4	( -3.4)	-2.6	-2.4	-3.4

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

2/ Preliminary.

Source: Output, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 103. MOTOR VEHICLES AND EQUIPMENT SIC 371  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>1/</sup>			OUTPUT PER EMPLOYEE <sup>1/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>2/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1957.....	68.9	67.6	( 73.3)	68.9	67.7	73.3
1958.....	66.9	69.2	( 60.5)	65.3	67.3	59.6
1959.....	73.3	72.5	( 75.9)	73.7	73.0	76.4
1960.....	79.6	78.5	( 83.1)	79.8	78.9	83.3
1961.....	80.6	81.9	( 76.7)	79.4	80.4	75.8
1962.....	88.4	87.2	( 92.6)	91.6	91.2	93.2
1963.....	91.9	90.4	( 96.7)	95.5	94.9	97.9
1964.....	92.8	91.9	( 96.1)	97.0	96.8	97.4
1965.....	99.0	96.0	(110.1)	105.8	103.9	112.4
1966.....	99.5	97.9	(105.9)	103.8	102.6	108.3
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.3	106.0	(116.1)	113.5	112.0	119.1
1969.....	106.4	105.3	(110.4)	108.5	107.4	112.5
1970.....	102.0	103.3	( 98.0)	100.6	102.0	96.2
1971.....	119.0	117.6	(123.4)	119.5	118.8	121.8
1972.....	123.7	121.6	(131.1)	129.2	128.1	133.0
1973.....	126.6	124.0	(135.7)	133.8	132.1	139.7
1974.....	120.9	121.3	(119.2)	120.3	120.8	119.0
1975 <sup>3/</sup> .....	130.1	129.8	(130.9)	128.9	129.1	127.8
AVERAGE ANNUAL RATES (PERCENT)						
1957-75.....	3.6	3.6	( 3.7)	3.7	3.7	3.7
1970-75.....	3.7	3.7	( 4.0)	3.8	3.7	4.1

<sup>1/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>2/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>3/</sup> Preliminary.

Source: Output based on data from company records; Motor Vehicle Manufacturers Association of the U.S., Inc.; Gousha/Times Mirror Company (Automobile Invoice Service); Ward's Communications, Inc. (Ward's Automotive Yearbooks); Bureau of the Census; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of Labor Statistics and company records.

TABLE 104. MOTOR VEHICLES AND EQUIPMENT SIC 371  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1957.....	65.0	94.4	96.2	( 88.7)	94.3	96.0	88.7
1958.....	48.6	72.6	70.2	( 80.3)	74.4	72.2	81.5
1959.....	62.6	85.4	86.4	( 82.5)	84.9	85.8	81.9
1960.....	70.9	89.1	90.3	( 85.3)	88.8	89.9	85.1
1961.....	61.5	76.3	75.1	( 80.2)	77.5	76.5	81.1
1962.....	77.7	87.9	89.1	( 83.9)	84.8	85.2	83.4
1963.....	86.8	94.5	96.0	( 89.8)	90.9	91.5	88.7
1964.....	89.5	96.4	97.4	( 93.1)	92.3	92.5	91.9
1965.....	109.3	110.4	113.8	( 99.3)	103.3	105.2	97.2
1966.....	109.7	110.2	112.1	(103.6)	105.7	106.9	101.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	121.6	112.3	114.7	(104.7)	107.1	108.6	102.1
1969.....	121.2	113.9	115.1	(109.8)	111.7	112.9	107.7
1970.....	98.3	96.4	95.2	(100.3)	97.7	96.4	102.2
1971.....	123.4	103.7	104.9	(100.0)	103.3	103.9	101.3
1972.....	136.7	110.5	112.4	(104.3)	105.8	106.7	102.8
1973.....	156.7	123.8	126.4	(115.5)	117.1	118.6	112.2
1974.....	131.4	108.7	108.3	(110.2)	109.2	108.8	110.4
1975 <sup>2/</sup> .....	122.3	94.0	94.2	( 93.4)	94.9	94.7	95.7
AVERAGE ANNUAL RATES (PERCENT)							
1957-75.....	5.4	1.7	1.8	( 1.6)	1.6	1.7	1.6
1970-75.....	4.1	0.4	0.5	( 0.1)	0.4	0.4	( <sup>3/</sup> )

<sup>1/</sup> The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker hours.

<sup>2/</sup> Preliminary.

<sup>3/</sup> Less than .05 percent.

Source: Output based on data from company records; Motor Vehicle Manufacturers Association of the U.S., Inc.; Gousha/Times Mirror Company (Automobile Invoice Service); Ward's Communications, Inc. (Ward's Automotive Yearbooks); Bureau of the Census; and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of Labor Statistics and company records.

TABLE 105. RAILROAD TRANSPORTATION-REVENUE TRAFFIC SIC 401 <sup>1/</sup>  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>2/</sup>			OUTPUT PER EMPLOYEE <sup>2/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	27.9	27.2	35.2	31.4	30.5	42.3
1947.....	38.3	36.7	60.1	45.2	43.2	72.0
1948.....	37.6	36.1	57.9	44.4	42.5	69.5
1949.....	36.7	35.5	51.1	40.8	39.3	58.6
1950.....	42.0	40.4	60.5	43.5	41.9	64.2
1951.....	44.4	42.7	65.8	45.7	43.8	70.2
1952.....	44.6	43.0	63.3	45.3	43.5	67.3
1953.....	44.8	43.3	62.3	45.1	43.4	66.2
1954.....	46.6	45.4	58.9	46.3	44.9	61.7
1955.....	51.6	50.2	65.2	52.2	50.6	70.7
1956.....	54.0	52.7	67.3	54.6	52.9	73.1
1957.....	54.8	53.7	65.6	54.8	53.3	71.1
1958.....	57.6	57.1	62.3	57.5	56.4	67.4
1959.....	61.2	60.6	66.1	61.3	60.2	71.7
1960.....	63.6	63.2	67.0	63.5	62.5	72.4
1961.....	68.2	68.1	69.0	67.9	67.1	74.3
1962.....	72.6	72.4	74.2	73.0	72.2	80.1
1963.....	77.1	76.9	78.9	78.2	77.3	85.0
1964.....	82.1	81.9	83.8	84.4	83.5	91.1
1965.....	90.8	91.0	89.7	92.9	92.3	97.3
1966.....	97.5	97.6	97.2	99.6	99.2	102.7
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	104.3	104.5	103.1	105.8	106.0	103.6
1969.....	109.2	109.4	107.9	111.1	111.4	107.7
1970.....	110.1	110.3	107.7	112.2	112.9	107.2
1971.....	112.4	113.2	106.5	110.2	110.9	105.2
1972.....	121.4	122.5	113.6	122.4	123.8	111.5
1973.....	131.5	132.3	125.5	132.6	133.8	122.4
1974.....	130.2	131.0	124.9	132.3	133.9	121.3
1975 <sup>3/</sup> .....	125.9	126.6	120.7	125.9	127.3	115.3
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	5.2	5.4	3.3	5.1	5.4	2.9
1970-75.....	3.5	3.5	3.3	3.5	3.6	2.6

<sup>1/</sup> Class I railroads and Class I switching and terminal companies.

<sup>2/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>3/</sup> Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 106. RAILROAD TRANSPORTATION-REVENUE TRAFFIC SIC 401 <sup>1/</sup>  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	50.5	181.0	185.7	143.6	160.6	165.7	119.5
1947.....	99.6	260.1	271.7	165.8	220.4	230.6	138.3
1948.....	96.1	255.3	266.3	166.1	216.5	226.3	138.3
1949.....	79.6	216.8	224.3	155.9	195.0	202.5	135.9
1950.....	87.1	207.6	215.4	143.9	200.0	208.1	135.6
1951.....	95.6	215.2	223.7	145.3	209.2	218.4	136.1
1952.....	91.2	204.7	212.1	144.1	201.5	209.7	135.5
1953.....	89.4	199.6	206.5	143.5	198.2	206.1	135.0
1954.....	81.2	174.2	178.7	137.9	175.2	180.7	131.5
1955.....	91.0	176.5	181.1	139.5	174.2	179.9	128.8
1956.....	94.1	174.2	178.4	139.8	172.4	177.9	128.8
1957.....	89.6	163.5	166.9	136.6	163.5	168.2	126.1
1958.....	80.1	139.0	140.4	128.6	139.3	141.9	118.8
1959.....	82.9	135.5	136.7	125.4	135.2	137.6	115.6
1960.....	82.2	129.2	130.0	122.7	129.5	131.6	113.5
1961.....	80.8	118.5	118.6	117.1	119.0	120.4	108.7
1962.....	84.7	116.6	117.0	114.2	116.1	117.3	105.8
1963.....	88.1	114.2	114.5	111.7	112.7	113.9	103.6
1964.....	92.9	113.1	113.5	110.9	110.1	111.2	102.0
1965.....	97.8	107.7	107.5	109.0	105.3	106.0	100.5
1966.....	103.1	105.7	105.6	106.1	103.5	103.9	100.4
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	102.5	98.3	98.1	99.4	96.9	96.7	98.9
1969.....	105.4	96.5	96.3	97.7	94.9	94.6	97.9
1970.....	104.5	94.9	94.7	97.0	93.1	92.6	97.5
1971.....	100.6	89.5	88.9	94.5	91.3	90.7	95.6
1972.....	105.5	86.9	86.1	92.9	86.2	85.2	94.6
1973.....	115.5	87.8	87.3	92.0	87.1	86.3	94.4
1974.....	115.4	88.6	88.1	92.4	87.2	86.2	95.1
1975 <sup>2/</sup> .....	102.2	81.2	80.7	84.7	81.2	80.3	88.6
AVERAGE ANNUAL RATES (PERCENT)							
1950-75....	1.0	-3.9	-4.1	-2.2	-3.9	-4.1	-1.8
1970-75....	1.1	-2.3	-2.3	-2.1	-2.3	-2.4	-1.4

<sup>1/</sup> Class I railroads and Class I switching and terminal companies.

<sup>2/</sup> Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 107. RAILROAD TRANSPORTATION-CAR MILES SIC 401 <sup>1/</sup>  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <sup>2/</sup>			OUTPUT PER EMPLOYEE <sup>2/</sup>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	44.1	43.0	55.6	49.8	48.2	66.9
1947.....	44.7	42.8	70.1	52.7	50.4	84.0
1948.....	44.5	42.7	68.4	52.5	50.2	82.1
1949.....	46.9	45.3	65.2	52.2	50.2	74.8
1950.....	51.5	49.7	74.4	53.5	51.4	78.9
1951.....	51.9	49.9	76.9	53.4	51.1	82.1
1952.....	53.5	51.7	76.1	54.4	52.3	80.9
1953.....	55.1	53.2	76.6	55.4	53.3	81.4
1954.....	58.9	57.4	74.4	58.6	56.8	78.0
1955.....	62.3	60.7	78.9	63.1	61.1	85.4
1956.....	63.7	62.2	79.4	64.4	62.4	86.2
1957.....	65.6	64.3	78.6	65.6	63.8	85.1
1958.....	70.6	69.9	76.3	70.4	69.1	82.6
1959.....	73.4	72.7	79.3	73.5	72.2	86.0
1960.....	75.5	75.1	79.5	75.4	74.2	86.0
1961.....	79.4	79.3	80.4	79.1	78.2	86.6
1962.....	82.1	81.8	83.8	82.4	81.6	90.5
1963.....	84.7	84.5	86.6	85.8	84.9	93.3
1964.....	87.5	87.2	89.3	89.9	89.0	97.1
1965.....	92.9	93.0	91.7	95.0	94.3	99.5
1966.....	97.4	97.4	97.0	99.4	99.0	102.5
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	101.8	102.0	100.7	103.3	103.5	101.2
1969.....	103.8	104.0	102.6	105.6	105.9	102.3
1970.....	103.6	103.8	101.3	105.6	106.2	100.8
1971.....	106.7	107.4	101.1	104.6	105.3	99.9
1972.....	113.8	114.9	106.5	114.7	116.1	104.5
1973.....	116.2	116.8	110.9	117.1	118.2	108.1
1974.....	113.3	114.0	108.7	115.1	116.5	105.6
1975 <sup>3/</sup> .....	111.3	112.0	106.7	111.3	112.6	102.0
	AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	3.6	3.8	1.8	3.5	3.8	1.3
1970-75.....	1.6	1.7	1.5	1.7	1.8	0.7

<sup>1/</sup> Class I railroads and Class I switching and terminal companies.

<sup>2/</sup> The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

<sup>3/</sup> Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 108. RAILROAD TRANSPORTATION-CAR MILES SIC 401 <sup>1/</sup>  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	79.9	181.0	185.7	143.6	160.6	165.7	119.5
1947.....	116.2	260.1	271.7	165.8	220.4	230.6	138.3
1948.....	113.6	255.3	266.3	166.1	216.5	226.3	138.3
1949.....	101.7	216.8	224.3	155.9	195.0	202.5	135.9
1950.....	107.0	207.6	215.4	143.9	200.0	208.1	135.6
1951.....	111.7	215.2	223.7	145.3	209.2	218.4	136.1
1952.....	109.6	204.7	212.1	144.1	201.5	209.7	135.5
1953.....	109.9	199.6	206.5	143.5	198.2	206.1	135.0
1954.....	102.6	174.2	178.7	137.9	175.2	180.7	131.5
1955.....	110.0	176.5	181.1	139.5	174.2	179.9	128.8
1956.....	111.0	174.2	178.4	139.8	172.4	177.9	128.8
1957.....	107.3	163.5	166.9	136.6	163.5	168.2	126.1
1958.....	98.1	139.0	140.4	128.6	139.3	141.9	118.8
1959.....	99.4	135.5	136.7	125.4	135.2	137.6	115.6
1960.....	97.6	129.2	130.0	122.7	129.5	131.6	113.5
1961.....	94.1	118.5	118.6	117.1	119.0	120.4	108.7
1962.....	95.7	116.6	117.0	114.2	116.1	117.3	105.8
1963.....	96.7	114.2	114.5	111.7	112.7	113.9	103.6
1964.....	99.0	113.1	113.5	110.9	110.1	111.2	102.0
1965.....	100.0	107.7	107.5	109.0	105.3	106.0	100.5
1966.....	102.9	105.7	105.6	106.1	103.5	103.9	100.4
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	100.1	98.3	98.1	99.4	96.9	96.7	98.9
1969.....	100.2	96.5	96.3	97.7	94.9	94.6	97.9
1970.....	98.3	94.9	94.7	97.0	93.1	92.6	97.5
1971.....	95.5	89.5	88.9	94.5	91.3	90.7	95.6
1972.....	98.9	86.9	86.1	92.9	86.2	85.2	94.6
1973.....	102.0	87.8	87.3	92.0	87.1	86.3	94.4
1974.....	100.4	88.6	88.1	92.4	87.2	86.2	95.1
1975 <sup>2/</sup> .....	90.4	81.2	80.7	84.7	81.2	80.3	88.6
AVERAGE ANNUAL RATES (PERCENT)							
1950-75.....	-0.5	-3.9	-4.1	-2.2	-3.9	-4.1	-1.8
1970-75.....	-0.7	-2.3	-2.3	-2.1	-2.3	-2.4	-1.4

<sup>1/</sup> Class I railroads and Class I switching and terminal companies.

<sup>2/</sup> Preliminary.

Source: Based on Interstate Commerce Commission data.



TABLE 109. INTERCITY TRUCKING SIC 4213 PT 1/  
INDEXES OF OUTPUT PER EMPLOYEE, OUTPUT, AND EMPLOYEES  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEES
1954.....	72.8	44.6	61.3
1955.....	76.7	51.4	67.0
1956.....	77.0	53.6	69.6
1957.....	78.2	56.6	72.4
1958.....	80.4	56.5	70.3
1959.....	85.1	66.3	77.9
1960.....	85.0	67.4	79.3
1961.....	85.9	67.0	78.0
1962.....	88.6	72.6	81.9
1963.....	92.9	78.0	84.0
1964.....	95.3	82.9	87.0
1965.....	98.6	93.1	94.4
1966.....	104.0	103.4	99.4
1967.....	100.0	100.0	100.0
1968.....	106.4	110.3	103.7
1969.....	109.0	117.6	107.9
1970.....	106.8	113.1	105.9
1971.....	113.6	123.0	108.3
1972.....	120.9	138.7	114.7
1973.....	125.3	152.6	121.8
1974.....	124.3	150.6	121.2
1975 <u>2/</u> .....	122.2	135.0	110.5
AVERAGE ANNUAL RATES (PERCENT)			
1954-75.....	2.7	5.9	3.2
1970-75.....	2.8	4.6	1.8

1/ Class I and II common and contract carriers.

2/ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 110. INTERCITY TRUCKING - GENERAL FREIGHT SIC 4213 PT 1/  
INDEXES OF OUTPUT PER EMPLOYEE, OUTPUT, AND EMPLOYEES  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEES
1954.....	77.6	50.8	65.5
1955.....	80.1	56.8	70.9
1956.....	81.0	60.0	74.1
1957.....	80.7	62.3	77.2
1958.....	82.1	61.4	74.8
1959.....	87.8	71.2	81.1
1960.....	86.6	70.7	81.6
1961.....	86.6	69.5	80.3
1962.....	89.0	74.7	83.9
1963.....	92.7	79.0	85.2
1964.....	96.8	85.3	88.1
1965.....	104.8	93.6	89.3
1966.....	103.1	103.3	100.2
1967.....	100.0	100.0	100.0
1968.....	105.6	109.5	103.7
1969.....	107.5	115.3	107.3
1970.....	102.3	106.2	103.8
1971.....	108.0	112.8	104.4
1972.....	114.7	124.2	108.3
1973 <u>2</u> /.....	123.9	139.9	112.9
	AVERAGE ANNUAL RATES (PERCENT)		
1954-73.....	2.2	5.0	2.7

1/ Class I and II common carriers of general freight.

2/ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 111. AIR TRANSPORTATION SIC 4511  
INDEXES OF OUTPUT PER EMPLOYEE, OUTPUT, AND EMPLOYEES  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEES
1947.....	18.4	6.5	35.4
1948.....	20.6	6.8	33.0
1949.....	23.6	7.6	32.2
1950.....	27.4	9.0	32.9
1951.....	31.4	11.4	36.3
1952.....	32.7	13.3	40.7
1953.....	35.5	15.4	43.4
1954.....	39.3	17.4	44.3
1955.....	44.2	20.7	46.8
1956.....	45.4	23.9	52.6
1957.....	47.0	27.1	57.7
1958.....	48.5	27.5	56.7
1959.....	52.3	31.7	60.6
1960.....	52.7	33.7	64.0
1961.....	55.7	35.7	64.1
1962.....	61.9	40.3	65.1
1963.....	68.4	45.7	66.8
1964.....	74.9	53.2	71.0
1965.....	83.5	64.3	77.0
1966.....	93.7	78.9	84.2
1967.....	100.0	100.0	100.0
1968.....	104.4	115.4	110.5
1969.....	107.3	126.5	117.9
1970.....	109.6	128.5	117.2
1971.....	116.8	131.6	112.7
1972.....	128.7	144.7	112.4
1973.....	131.3	153.4	116.8
1974.....	133.0	153.8	115.6
1975 <u>1</u> /.....	134.6	152.9	113.6
AVERAGE ANNUAL RATES (PERCENT)			
1950-75.....	6.8	12.6	5.4
1970-75.....	4.2	4.1	-0.1

1/ Preliminary.

Source: Based on Civil Aeronautics Board data.

TABLE 112. PETROLEUM PIPELINES SIC 4612, 4613  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>		OUTPUT PER EMPLOYEE <u>1/</u>	
	ALL EMPLOYEES	PRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS <u>2/</u>
1947.....	(3/)	(3/)	16.5	(3/)
1948.....	(3/)	(3/)	17.5	(3/)
1949.....	(3/)	(3/)	18.0	(3/)
1950.....	(3/)	(3/)	21.7	(3/)
1951.....	(3/)	(3/)	25.0	(3/)
1952.....	(3/)	(3/)	25.9	(3/)
1953.....	(3/)	(3/)	28.4	(3/)
1954.....	(3/)	(3/)	31.2	(3/)
1955.....	(3/)	(3/)	34.8	(3/)
1956.....	(3/)	(3/)	39.6	(3/)
1957.....	(3/)	(3/)	39.0	(3/)
1958.....	40.4	39.0	39.7	38.4
1959.....	46.7	45.0	45.7	44.1
1960.....	50.2	48.9	48.7	47.4
1961.....	53.7	53.2	51.9	51.4
1962.....	56.0	54.5	54.6	53.2
1963.....	61.6	59.8	60.3	58.5
1964.....	66.9	66.0	66.2	65.4
1965.....	79.4	79.2	78.6	78.5
1966.....	89.5	89.3	88.1	88.0
1967.....	100.0	100.0	100.0	100.0
1968.....	105.8	106.8	105.4	106.2
1969.....	114.3	117.7	113.5	116.9
1970.....	121.3	127.7	120.7	127.1
1971.....	124.1	132.8	123.4	132.1
1972.....	142.7	152.5	140.6	150.4
1973.....	156.4	167.7	155.3	166.5
1974.....	156.5	167.2	153.1	163.6
1975 <u>4/</u> .....	158.8	173.5	157.4	171.8
AVERAGE ANNUAL RATES (PERCENT)				
1950-75.....	(3/)	(3/)	8.6	(3/)
1970-75.....	6.3	6.9	6.1	6.6

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ Represents nonsupervisory workers.

3/ Not available.

4/ Preliminary.

Source: Output based on data from the Interstate Commerce Commission. Employment and hours based on data from the Bureau of Labor Statistics and the Interstate Commerce Commission.

TABLE 113. PETROLEUM PIPELINES SIC 4612, 4613  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		ALL EMPLOYEES	PRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS <u>1/</u>
1947.....	25.2	( <u>2/</u> )	( <u>2/</u> )	152.6	( <u>2/</u> )
1948.....	28.1	( <u>2/</u> )	( <u>2/</u> )	160.9	( <u>2/</u> )
1949.....	27.7	( <u>2/</u> )	( <u>2/</u> )	154.3	( <u>2/</u> )
1950.....	32.1	( <u>2/</u> )	( <u>2/</u> )	147.7	( <u>2/</u> )
1951.....	38.3	( <u>2/</u> )	( <u>2/</u> )	153.1	( <u>2/</u> )
1952.....	40.2	( <u>2/</u> )	( <u>2/</u> )	155.5	( <u>2/</u> )
1953.....	43.0	( <u>2/</u> )	( <u>2/</u> )	151.5	( <u>2/</u> )
1954.....	45.2	( <u>2/</u> )	( <u>2/</u> )	145.1	( <u>2/</u> )
1955.....	49.0	( <u>2/</u> )	( <u>2/</u> )	140.7	( <u>2/</u> )
1956.....	54.8	( <u>2/</u> )	( <u>2/</u> )	138.5	( <u>2/</u> )
1957.....	55.3	( <u>2/</u> )	( <u>2/</u> )	141.7	( <u>2/</u> )
1958.....	54.6	135.1	139.9	137.4	142.3
1959.....	59.3	127.1	131.7	129.9	134.6
1960.....	60.1	119.7	123.0	123.5	126.9
1961.....	61.6	114.7	115.8	118.7	119.9
1962.....	63.1	112.7	115.7	115.5	118.6
1963.....	66.7	108.3	111.6	110.7	114.1
1964.....	70.8	105.9	107.3	107.0	108.3
1965.....	82.0	103.3	103.5	104.3	104.5
1966.....	89.1	99.6	99.8	101.1	101.3
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	104.2	98.5	97.6	98.9	98.1
1969.....	108.6	95.0	92.3	95.7	92.9
1970.....	114.9	94.7	90.0	95.2	90.4
1971.....	116.9	94.2	88.0	94.7	88.5
1972.....	126.3	88.5	82.8	89.8	84.0
1973.....	134.5	86.0	80.2	86.6	80.8
1974.....	134.3	85.8	80.3	87.7	82.1
1975 <u>3/</u> .....	138.8	87.4	80.0	88.2	80.8
AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	5.9	( <u>2/</u> )	( <u>2/</u> )	-2.6	( <u>2/</u> )
1970-75.....	4.2	-2.0	-2.5	-1.8	-2.3

- 1/ Represents nonsupervisory workers.  
2/ Not available.  
3/ Preliminary.

Source: Output based on data from the Interstate Commerce Commission. Employment and hours based on data from the Bureau of Labor Statistics and the Interstate Commerce Commission.

TABLE 114. TELEPHONE COMMUNICATIONS SIC 4811  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR, OUTPUT PER EMPLOYEE, OUTPUT,  
EMPLOYEE-HOURS, AND EMPLOYEES  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEE-HOURS	EMPLOYEES
1951.....	37.0	36.8	29.4	79.4	79.9
1952.....	37.7	37.0	31.1	82.4	84.1
1953.....	38.5	37.9	33.0	85.7	87.1
1954.....	40.8	40.4	35.0	85.8	86.6
1955.....	43.9	44.3	38.8	88.3	87.6
1956.....	45.1	45.3	42.2	93.6	93.1
1957.....	49.4	49.0	46.7	94.5	95.3
1958.....	55.8	54.5	49.5	88.7	90.8
1959.....	61.9	61.8	54.2	87.5	87.7
1960.....	65.8	66.3	58.0	88.2	87.5
1961.....	71.6	71.7	61.7	86.2	86.0
1962.....	76.4	77.6	66.1	86.5	85.2
1963.....	82.0	83.4	70.9	86.5	85.0
1964.....	85.4	87.3	76.5	89.6	87.6
1965.....	89.1	91.6	83.5	93.7	91.2
1966.....	93.0	96.1	92.2	99.1	95.9
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	106.2	107.3	108.1	101.8	100.7
1969.....	108.4	111.1	119.9	110.6	107.9
1970.....	109.6	109.9	127.9	116.7	116.4
1971.....	118.7	115.1	134.4	113.2	116.8
1972.....	123.2	123.2	146.7	119.1	119.1
1973.....	129.9	130.8	158.7	122.2	121.3
1974.....	139.3	140.3	172.6	123.9	123.0
1975 <u>1</u> /.....	154.2	150.7	179.8	116.6	119.3
	AVERAGE ANNUAL RATES (PERCENT)				
1951-75.....	6.3	6.3	8.1	1.7	1.6
1970-75.....	6.6	6.6	7.5	0.8	0.9

1/ Preliminary

Source: Output based on data from the Federal Communications Commission and the American Telephone and Telegraph Company. Employment and hours based on data from the Bureau of Labor Statistics.

TABLE 115. GAS AND ELECTRIC UTILITIES SIC 491, 492, 493  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>		OUTPUT PER EMPLOYEE <u>1/</u>	
	ALL EMPLOYEES	PRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS <u>2/</u>
1939.....	15.8	(3/)	15.1	(3/)
1947.....	26.2	23.8	26.5	24.0
1948.....	27.5	25.1	27.7	25.3
1949.....	28.1	25.8	28.1	25.8
1950.....	31.3	28.9	31.5	29.0
1951.....	34.7	32.0	35.1	32.4
1952.....	37.0	34.3	37.2	34.5
1953.....	39.6	37.1	39.7	37.1
1954.....	42.4	40.0	42.3	39.9
1955.....	47.2	44.9	47.1	44.7
1956.....	51.1	48.8	51.0	48.7
1957.....	53.7	51.5	53.2	51.1
1958.....	56.4	54.4	55.5	53.5
1959.....	61.5	59.7	60.8	59.0
1960.....	65.5	63.8	64.8	63.0
1961.....	69.4	67.9	68.4	66.8
1962.....	74.9	73.5	74.3	72.8
1963.....	79.5	78.6	79.0	78.0
1964.....	85.5	84.8	84.9	84.1
1965.....	89.2	88.5	89.0	88.3
1966.....	95.7	95.3	95.8	95.3
1967.....	100.0	100.0	100.0	100.0
1968.....	107.1	107.0	107.1	107.0
1969.....	113.8	114.4	114.1	114.6
1970.....	117.3	117.9	117.6	118.3
1971.....	123.3	124.6	123.0	124.2
1972.....	128.6	130.1	128.6	130.1
1973.....	131.2	133.5	131.5	133.9
1974.....	128.8	132.3	128.2	131.7
1975 <u>4/</u> .....	132.0	136.7	131.0	135.8
	AVERAGE ANNUAL RATES (PERCENT)			
1950-75.....	6.2	6.6	6.2	6.6
1970-75.....	2.1	2.7	2.0	2.6

1/ The output measures underlying the output per employee-hour and output per employee indexes relate to the total production of the industry. They do not relate to the specific output of any single group of employees.

2/ Represents nonsupervisory workers.

3/ Not available.

4/ Preliminary.

Source: Output based on data from the American Gas Association, Federal Power Commission, Rural Electrification Administration of the U.S. Department of Agriculture, and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of Labor Statistics.

TABLE 116. GAS AND ELECTRIC UTILITIES SIC 491, 492, 493  
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT  
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		ALL EMPLOYEES	PRODUCTION WORKERS <sup>1/</sup>	ALL EMPLOYEES	PRODUCTION WORKERS <sup>1/</sup>
1939.....	10.8	68.2	(2/)	71.4	(2/)
1947.....	20.8	79.3	87.4	78.5	86.6
1948.....	23.1	84.0	91.9	83.3	91.3
1949.....	24.2	86.2	93.9	86.1	93.9
1950.....	27.7	88.5	95.8	87.9	95.4
1951.....	31.3	90.3	97.7	89.2	96.5
1952.....	33.8	91.4	98.5	90.9	98.1
1953.....	36.7	92.6	99.0	92.4	98.8
1954.....	39.4	93.0	98.4	93.2	98.7
1955.....	44.3	93.9	98.7	94.0	99.0
1956.....	48.7	95.3	99.8	95.5	100.0
1957.....	51.8	96.4	100.5	97.3	101.4
1958.....	54.0	95.7	99.2	97.3	100.9
1959.....	59.2	96.2	99.2	97.3	100.4
1960.....	63.1	96.3	98.9	97.4	100.1
1961.....	66.3	95.5	97.7	96.9	99.2
1962.....	71.3	95.2	97.0	96.0	97.9
1963.....	75.8	95.3	96.4	95.9	97.2
1964.....	81.8	95.7	96.5	96.4	97.3
1965.....	86.8	97.3	98.1	97.5	98.3
1966.....	94.1	98.3	98.7	98.2	98.7
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	108.8	101.6	101.7	101.6	101.7
1969.....	118.4	104.0	103.5	103.8	103.3
1970.....	125.6	107.1	106.5	106.8	106.2
1971.....	132.2	107.2	106.1	107.5	106.4
1972.....	140.8	109.5	108.2	109.5	108.2
1973.....	146.9	112.0	110.0	111.7	109.7
1974.....	145.8	113.2	110.2	113.7	110.7
1975 <sup>3/</sup> .....	146.5	111.0	107.2	111.8	107.9
AVERAGE ANNUAL RATES (PERCENT)					
1950-75.....	7.1	0.9	0.4	0.9	0.4
1970-75.....	3.2	1.0	0.5	1.2	0.6

1/ Represents nonsupervisory workers.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the American Gas Association, Federal Power Commission, Rural Electrification Administration of the U.S. Department of Agriculture, and the Bureau of Labor Statistics. Employment and hours based on data from the Bureau of Labor Statistics.



TABLE 117. RETAIL FOOD STORES SIC 54  
INDEXES OF OUTPUT PER HOUR OF ALL PERSONS, OUTPUT PER PERSON,  
OUTPUT, HOURS OF ALL PERSONS, AND ALL PERSONS 1/

YEAR	OUTPUT PER HOUR OF ALL PERSONS	OUTPUT PER PERSON	OUTPUT	HOURS OF ALL PERSONS	ALL PERSONS
1958.....	75.4	83.8	78.4	104.0	93.6
1959.....	78.4	87.0	81.9	104.4	94.1
1960.....	80.9	88.4	84.1	103.9	95.1
1961.....	84.0	90.9	86.1	102.5	94.7
1962.....	85.3	92.1	88.0	103.2	95.6
1963.....	89.4	94.9	88.7	99.2	93.5
1964.....	91.4	96.9	93.0	101.8	96.0
1965.....	93.8	97.8	96.4	102.8	98.6
1966.....	96.3	98.1	98.0	101.8	99.9
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	105.1	103.1	104.6	99.5	101.5
1969.....	104.8	101.1	105.6	100.8	104.4
1970.....	110.5	105.7	111.7	101.1	105.7
1971.....	111.9	106.6	114.1	102.0	107.0
1972.....	113.3	107.2	116.8	103.1	109.0
1973.....	107.5	101.6	112.9	105.0	111.1
1974 <u>2/</u> .....	105.2	98.1	112.3	106.7	114.5
1975 <u>2/</u> .....	108.1	99.6	113.2	104.7	113.6
AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	2.4	1.1	2.4	0.1	1.3
1970-75.....	-1.0	-1.7	( <u>3/</u> )	0.9	1.7

1/ All persons include paid employees, unpaid family workers, and the self-employed.

2/ Preliminary.

3/ Less than .05 percent.

Source: Output based on data from the Bureau of the Census and the Bureau of Economic Analysis, U.S. Department of Commerce; Bureau of Labor Statistics; and the Statistical Reporting Service, and Economic Research Service, U.S. Department of Agriculture. Persons and hours based on data from the Bureau of Labor Statistics; Bureau of the Census; and the Internal Revenue Service, U.S. Department of the Treasury.

TABLE 118. FRANCHISED NEW CAR DEALERS SIC 5511  
INDEXES OF OUTPUT PER EMPLOYEE-HOUR, OUTPUT PER EMPLOYEE, OUTPUT,  
EMPLOYEE-HOURS, AND EMPLOYEES  
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEE-HOURS	EMPLOYEES
1958.....	77.0	80.8	69.9	90.8	86.5
1959.....	87.2	92.3	81.6	93.6	88.4
1960.....	88.3	93.1	83.9	95.0	90.1
1961.....	84.2	88.0	74.9	89.0	85.1
1962.....	90.3	93.7	81.7	90.5	87.2
1963.....	92.0	95.5	87.0	94.6	91.1
1964.....	91.2	95.3	89.9	98.6	94.3
1965.....	97.8	101.5	100.3	102.6	98.8
1966.....	98.7	100.6	101.5	102.8	100.9
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	105.6	104.2	107.8	102.1	103.5
1969.....	106.0	103.3	110.9	104.6	107.4
1970.....	106.4	102.7	108.4	101.9	105.6
1971.....	113.3	109.0	116.5	102.8	106.9
1972.....	116.9	112.2	126.5	108.2	112.7
1973.....	119.5	113.6	134.0	112.1	118.0
1974.....	116.2	109.7	122.7	105.6	111.9
1975 <u>1</u> /.....	122.4	114.9	122.8	100.3	106.9
AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	2.5	1.7	3.5	1.0	1.8
1970-75.....	2.3	1.7	2.4	0.1	0.7

1/ Preliminary.

Source: Output based on data from Bureau of the Census, Bureau of Labor Statistics, National Automobile Dealers Association, and Ward's Communications, Inc. (Ward's Automotive Yearbooks). Employment and hours based on data from the Bureau of Labor Statistics.

TABLE 119. GASOLINE SERVICE STATIONS SIC 5541  
INDEXES OF OUTPUT PER HOUR OF ALL PERSONS, OUTPUT PER PERSON,  
OUTPUT, HOURS OF ALL PERSONS, AND ALL PERSONS 1/  
(1967 = 100)

YEAR	OUTPUT PER HOUR OF ALL PERSONS	OUTPUT PER PERSON	OUTPUT	HOURS OF ALL PERSONS	ALL PERSONS
1958.....	77.5	81.8	71.3	92.0	87.2
1959.....	80.3	84.3	74.0	92.2	87.8
1960.....	82.2	86.2	76.9	93.6	89.2
1961.....	84.7	88.8	80.3	94.8	90.4
1962.....	85.0	88.5	79.9	94.0	90.3
1963.....	89.1	92.4	85.4	95.8	92.4
1964.....	90.6	94.4	88.7	97.9	94.0
1965.....	93.7	96.5	93.4	99.7	96.8
1966.....	98.2	99.6	98.5	100.3	98.9
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	105.5	103.7	106.8	101.2	103.0
1969.....	109.9	106.5	113.1	102.9	106.2
1970.....	122.5	116.2	123.2	100.6	106.0
1971.....	124.6	118.8	127.0	101.9	106.9
1972.....	127.2	120.9	132.3	104.0	109.4
1973.....	136.1	124.5	134.1	98.5	107.7
1974 <u>2/</u> .....	135.3	122.0	119.1	88.0	97.6
1975 <u>2/</u> .....	132.2	119.6	121.9	92.2	101.9
AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	3.7	2.6	3.9	0.2	1.3
1970-75.....	2.0	0.7	-0.7	-2.6	-1.4

1/ All persons include paid employees, unpaid family workers, and the self-employed.

2/ Preliminary.

Source: Output, persons, and hours based on data from the Bureau of Labor Statistics; Bureau of the Census; and the Internal Revenue Service, U.S. Department of the Treasury.

TABLE 120. HOTELS, MOTELS, AND TOURIST COURTS SIC 7011  
INDEXES OF OUTPUT PER HOUR OF ALL PERSONS, OUTPUT PER PERSON,  
OUTPUT, HOURS OF ALL PERSONS, AND ALL PERSONS 1/  
(1967 = 100)

YEAR	OUTPUT PER HOUR OF ALL PERSONS	OUTPUT PER PERSON	OUTPUT	HOURS OF ALL PERSONS	ALL PERSONS
1958.....	76.8	84.0	68.8	89.6	81.9
1959.....	77.8	85.1	71.3	91.7	83.8
1960.....	79.6	86.6	74.4	93.5	85.9
1961.....	77.0	82.9	71.9	93.4	86.7
1962.....	82.4	87.6	77.2	93.7	88.1
1963.....	86.0	91.2	80.8	93.9	88.6
1964.....	86.5	90.4	83.3	96.3	92.1
1965.....	93.0	96.2	91.2	98.1	94.8
1966.....	93.2	94.8	93.0	99.8	98.1
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	96.5	95.4	98.8	102.4	103.6
1969.....	97.8	95.2	101.6	103.9	106.7
1970.....	102.6	97.9	105.9	103.2	108.2
1971.....	92.0	86.1	95.5	103.8	110.9
1972.....	109.4	101.7	116.8	106.8	114.8
1973.....	109.9	101.6	122.5	111.5	120.6
1974 <u>2/</u> .....	108.6	98.2	121.9	112.2	124.1
1975 <u>2/</u> .....	112.7	100.2	126.1	111.9	125.9
AVERAGE ANNUAL RATES (PERCENT)					
1958-75.....	2.4	1.0	3.7	1.3	2.6
1970-75.....	2.8	1.5	4.8	2.0	3.3

1/ All persons include paid employees and the self-employed.

2/ Preliminary.

Source: Output, persons, and hours based on data from the Bureau of Labor Statistics; Bureau of the Census; and the Internal Revenue Service, U.S. Department of the Treasury.

## Charts

### Indexes of Output Per Employee-Hour and Related Data

SIC Code	Industry	Chart	Page
<u>Mining</u>			
1011	Iron mining, crude ore.....	2	136
1011	Iron mining, usable ore.....	3	137
1021	Copper mining, crude ore.....	4	138
1021	Copper mining, recoverable metal...	5	139
111,121	Coal mining.....	6	140
121	Bituminous coal and lignite mining.	7	141
14	Nonmetallic minerals.....	8	142
142	Crushed and broken stone.....	9	143
<u>Manufacturing</u>			
203	Canning and preserving.....	10,11	144-145
204	Grain mill products.....	12,13	146-147
2041	Flour and other grain mill products.....	14,15	148-149
2043	Cereal breakfast foods.....	16,17	150-151
2044	Rice milling.....	18,19	152-153
2045	Blended and prepared flour.....	20,21	154-155
2046	Wet corn milling.....	22,23	156-157
2047,48	Prepared feeds for animals and fowls.....	24,25	158-159
205	Bakery products.....	26,27	160-161
2061,62,63	Sugar.....	28,29	162-163
2065	Candy and confectionery products...	30,31	164-165
2082	Malt liquors.....	32,33	166-167
2086	Bottled and canned soft drinks.....	34,35	168-169
2111,21,31	Tobacco products - total.....	36,37	170-171
2111,31	Cigarettes, chewing and smoking tobacco.....	38,39	172-173
2121	Cigars.....	40,41	174-175
2251,52	Hosiery.....	42,43	176-177
2421	Sawmills and planing mills, general.....	44,45	178-179
2611,21,31,61	Paper, paperboard and pulp mills...	46,47	180-181
2653	Corrugated and solid fiber boxes...	48,49	182-183
2823,24	Synthetic fibers.....	50,51	184-185
2834	Pharmaceutical preparations.....	52,53	186-187
2851	Paints and allied products.....	54,55	188-189
2911	Petroleum refining.....	56,57	190-191

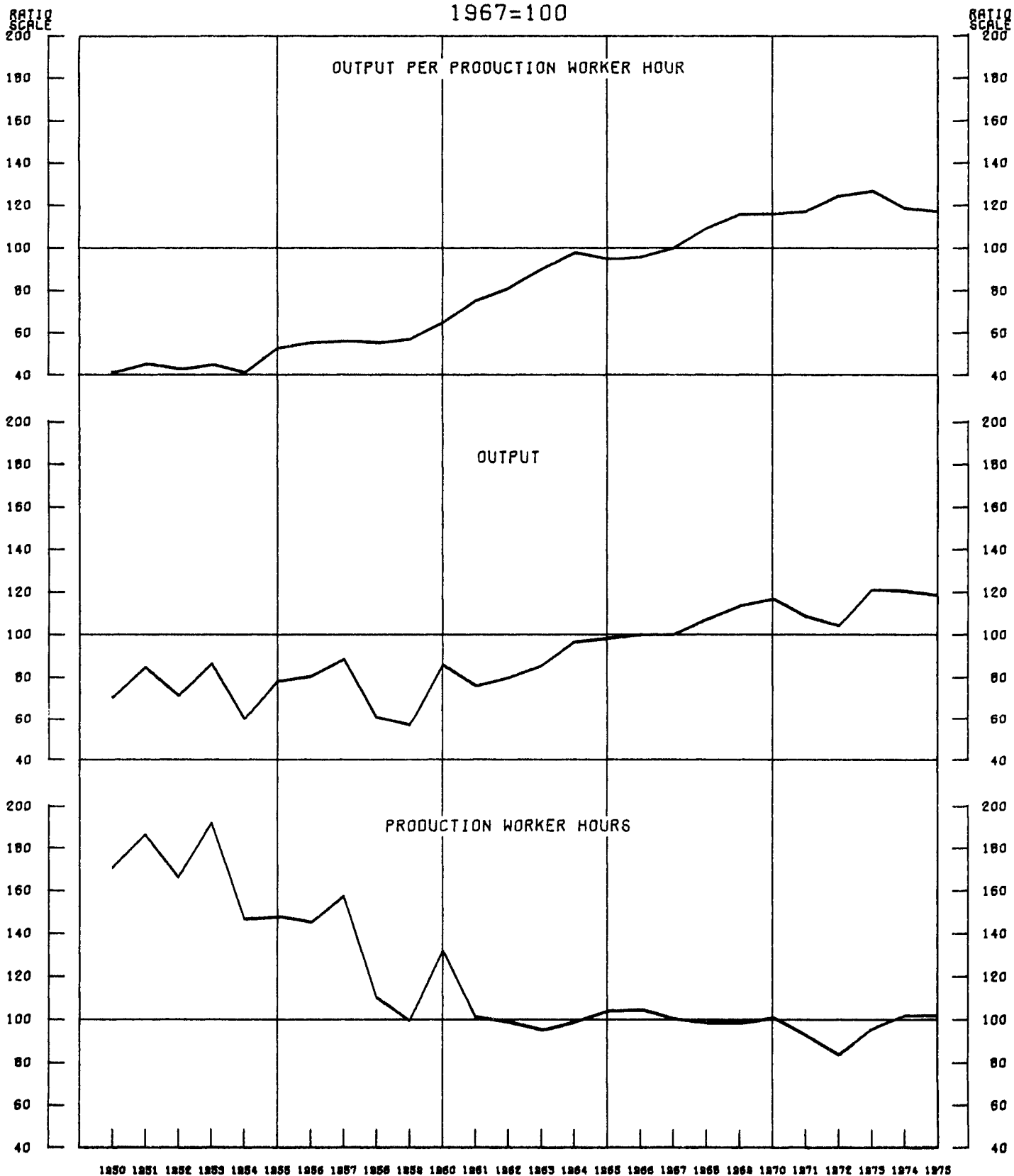
Charts--Continued

SIC Code	Industry	Chart	Page
<u>Manufacturing -- continued</u>			
3011	Tires and inner tubes.....	58,59	192-193
314	Footwear.....	60,61	194-195
3221	Glass containers.....	62,63	196-197
3241	Hydraulic cement.....	64,65	198-199
325	Structural clay.....	66,67	200-201
3251,53,59	Clay construction products.....	68,69	202-203
3255	Clay refractories.....	70,71	204-205
3271,72	Concrete products.....	72,73	206-207
3273	Ready-mixed concrete.....	74	208
331	Steel.....	75,76	209-210
3321	Gray iron foundries.....	77,78	211-212
3324,25	Steel foundries.....	79,80	213-214
3331,32,33	Primary copper, lead, and zinc.....	81,82	215-216
3334	Primary aluminum.....	83,84	217-218
3351	Copper rolling and drawing.....	85,86	219-220
3353,54,55	Aluminum rolling and drawing.....	87,88	221-222
341	Metal cans.....	89,90	223-224
3631,32,33, 39	Major household appliances.....	91,92	225-226
3651	Radio and television receiving sets.....	93,94	227-228
371	Motor vehicles and equipment.....	95,96	229-230

Other

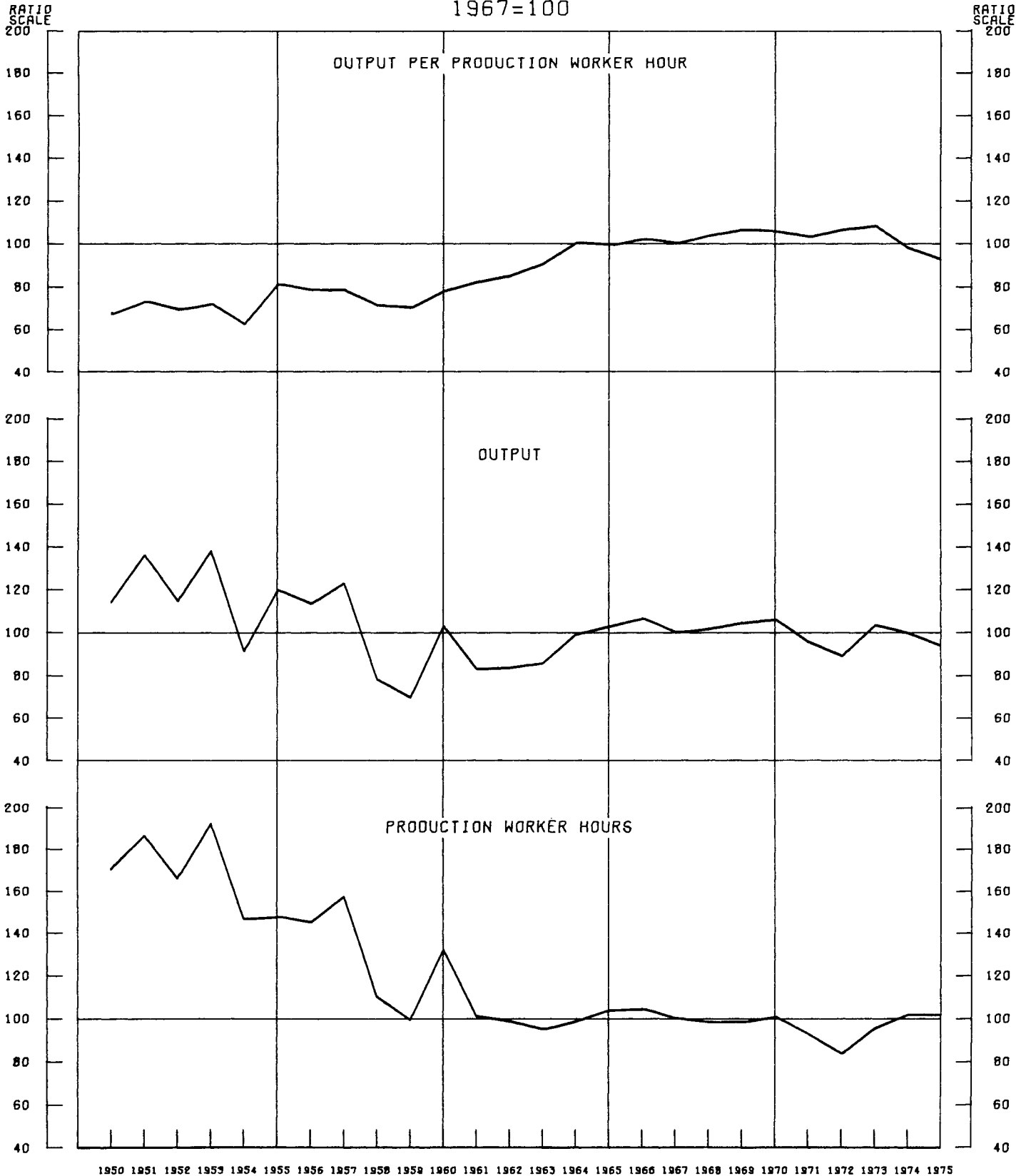
401 Class I	Railroads, revenue traffic.....	97,98	231-232
401 Class I	Railroads, car-miles.....	99,100	233-234
4213 PT.	Intercity trucking.....	101	235
4213 PT.	Intercity trucking (general freight).....	102	236
4511	Air transportation.....	103	237
4612,13	Pipelines.....	104,105	238-239
4811	Telephone communications.....	106	240
491,92,93	Gas and electric utilities.....	107,108	241-242
54	Retail food stores.....	109	243
5511	Franchised new car dealers.....	110	244
5541	Gasoline service stations.....	111	245
7011	Hotels and motels.....	112	246

CHART 2  
 IRON MINING, CRUDE ORE (SIC 1011), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 3  
 IRON MINING, USABLE ORE (SIC 1011), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

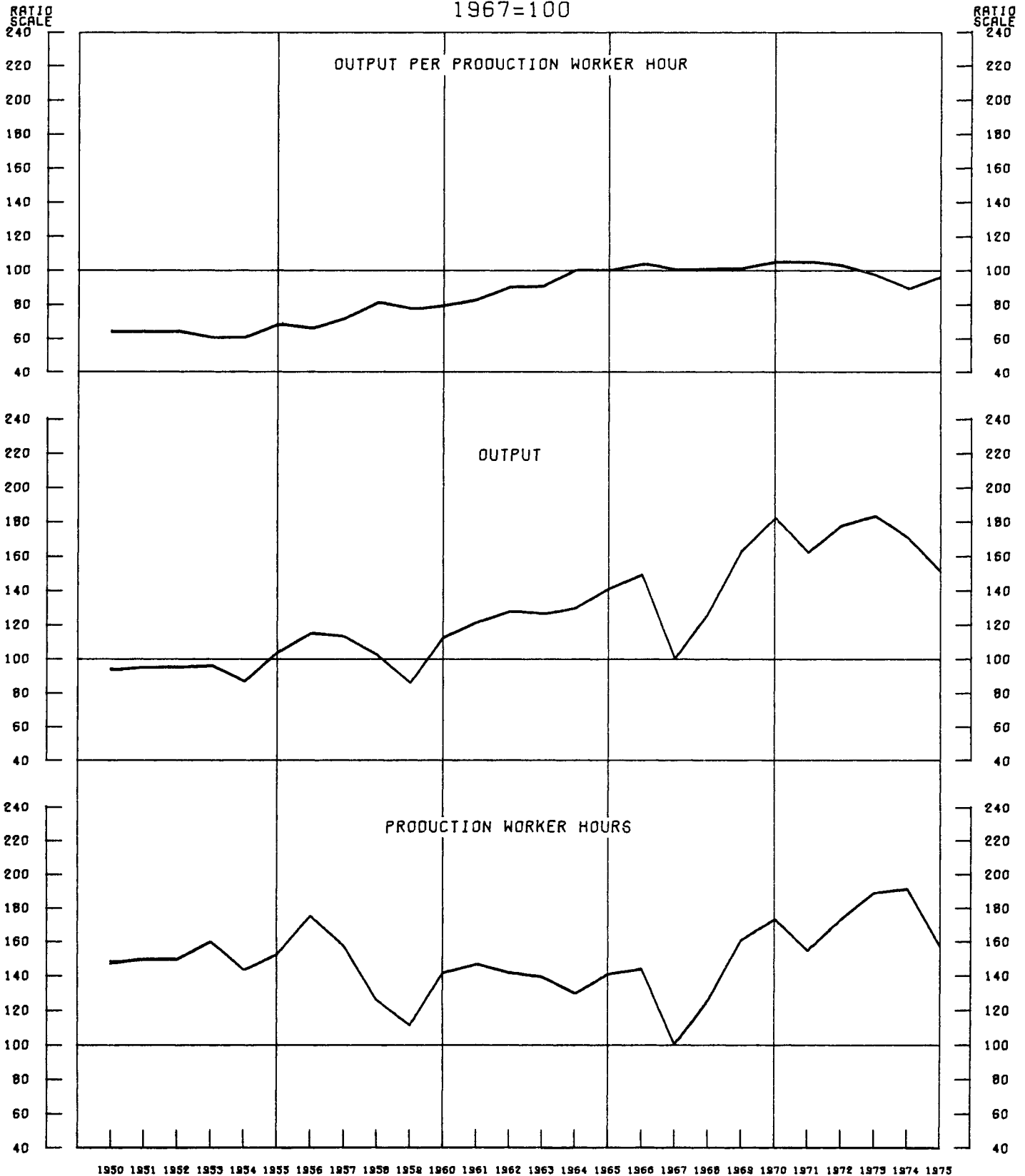


CHART 4  
 COPPER MINING, CRUDE ORE (SIC 1021), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



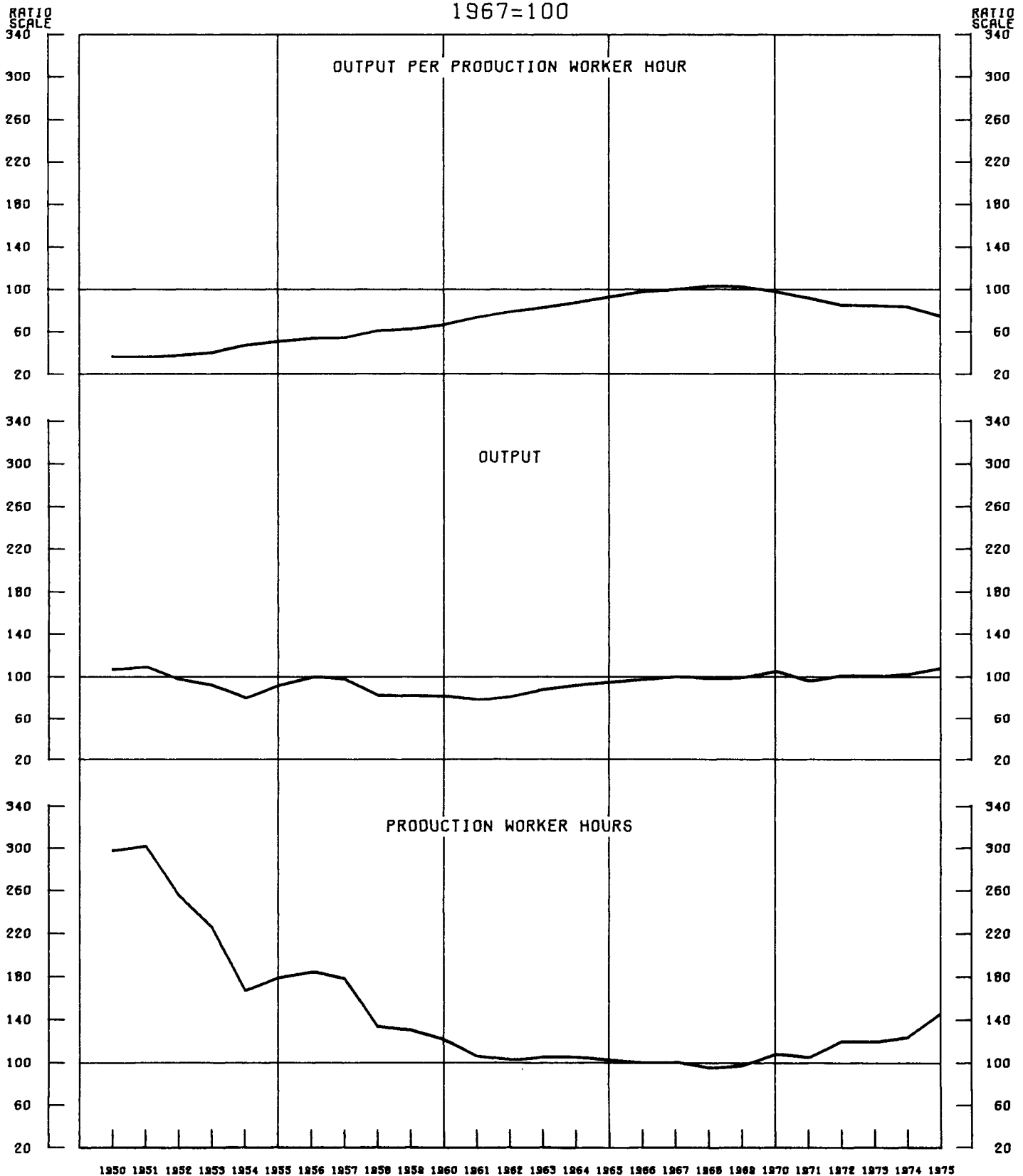
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 5  
 COPPER MINING, RECOVERABLE METAL (SIC 1021), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



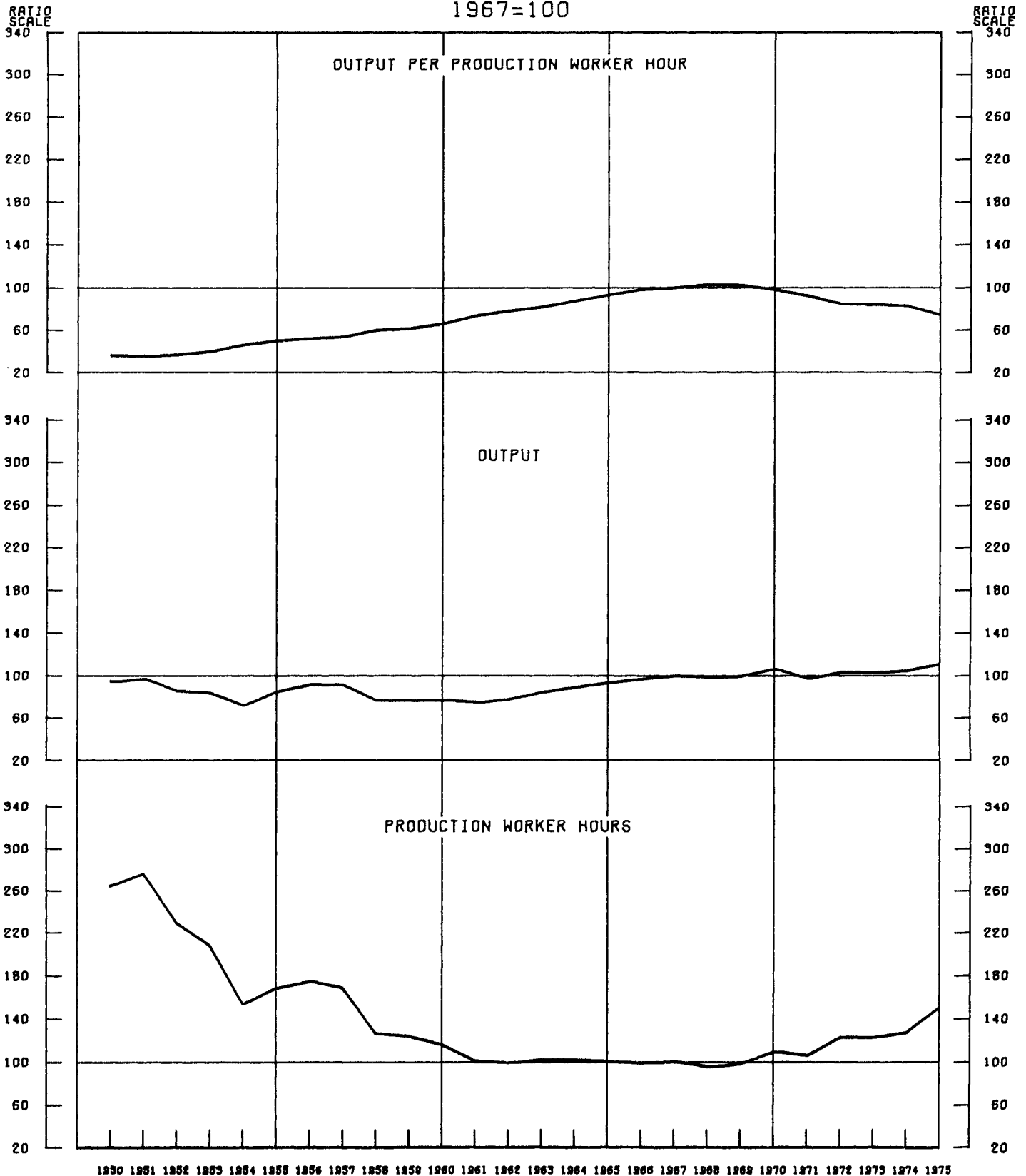
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 6  
 COAL MINING (SIC 111, 121), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 7  
 BITUMINOUS COAL AND LIGNITE MINING (SIC 121), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



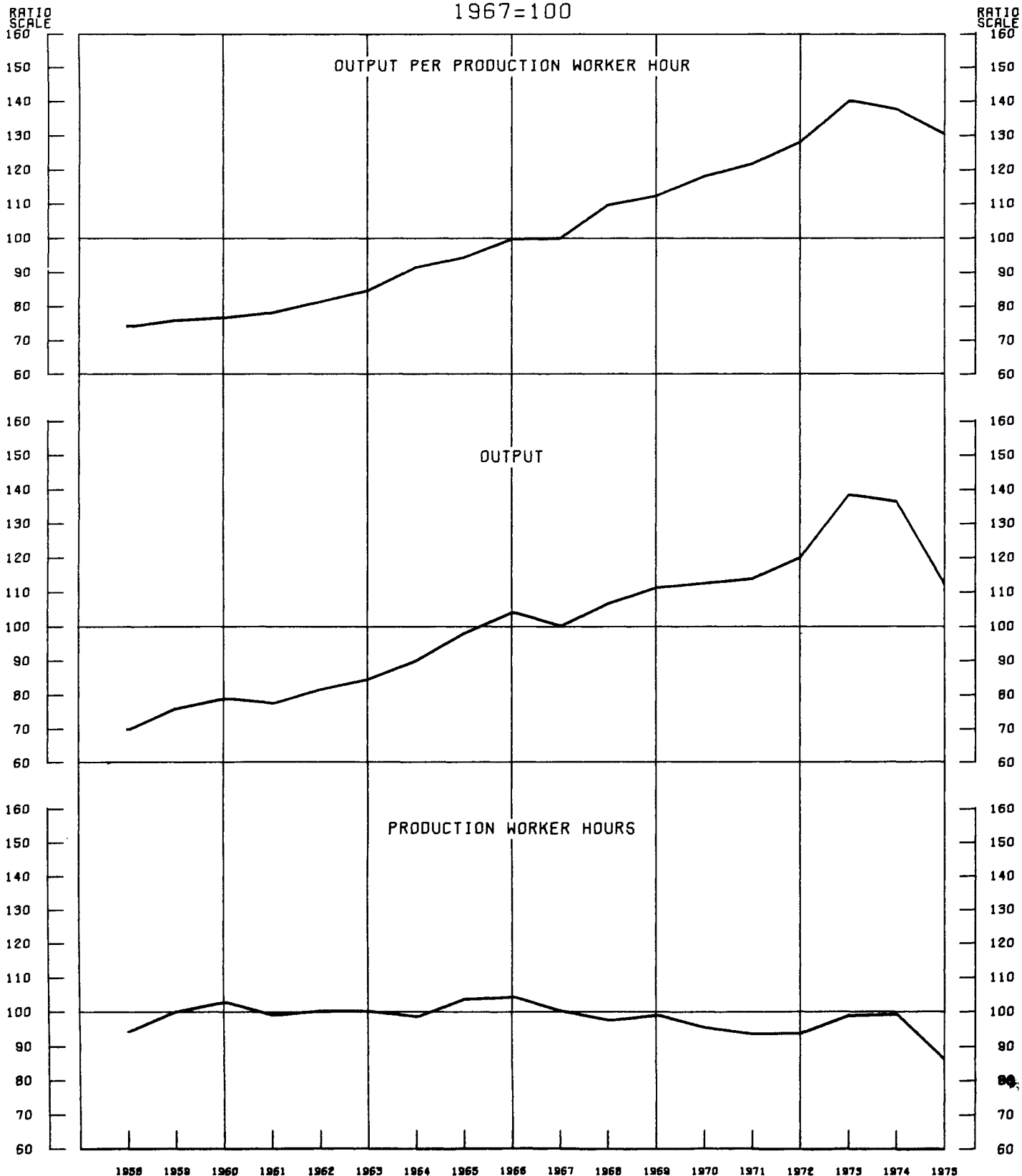
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 8  
 NONMETALLIC MINERALS, EXCEPT FUELS (SIC 14), 1954-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



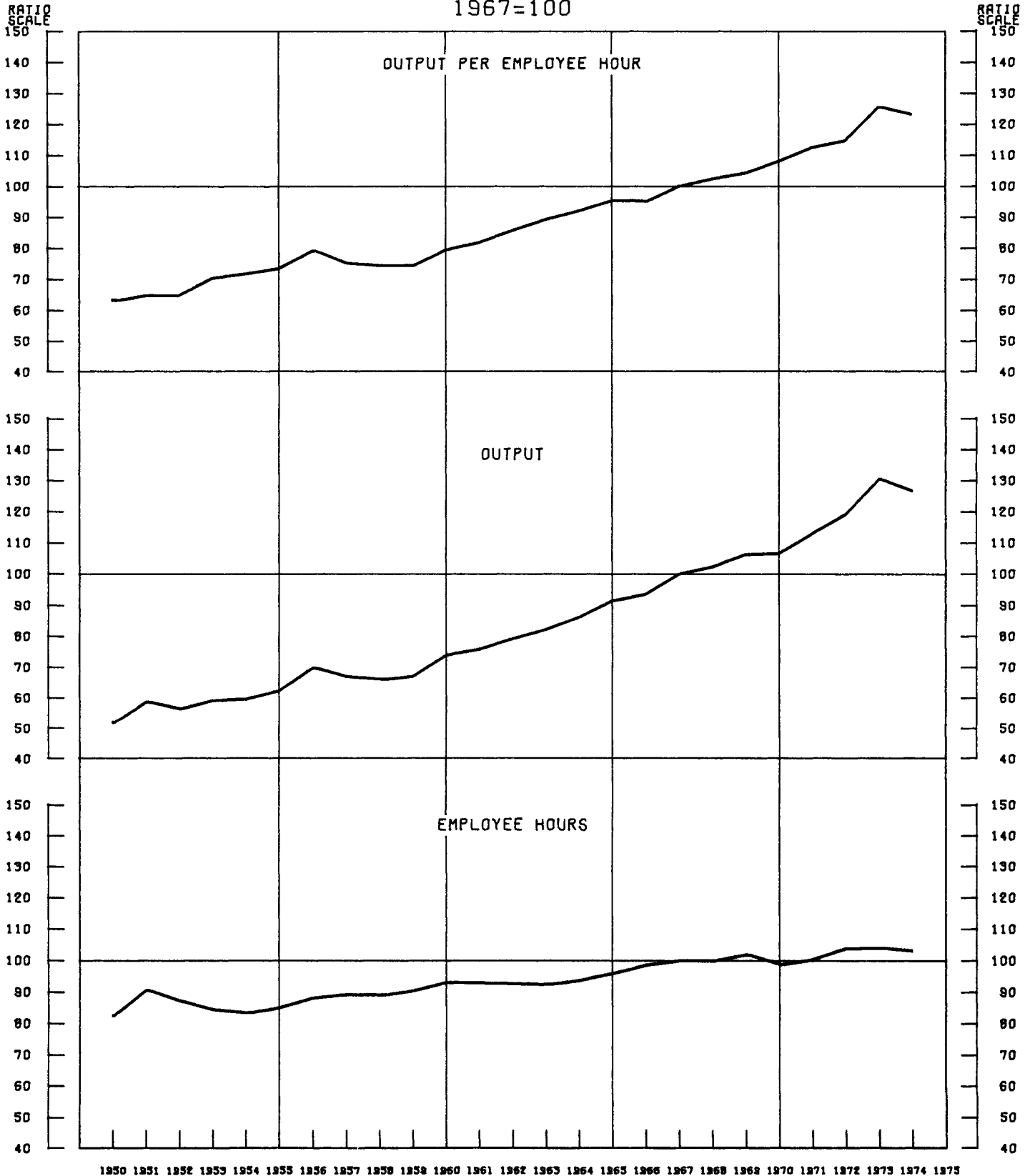
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 9  
 CRUSHED AND BROKEN STONE (SIC 142), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



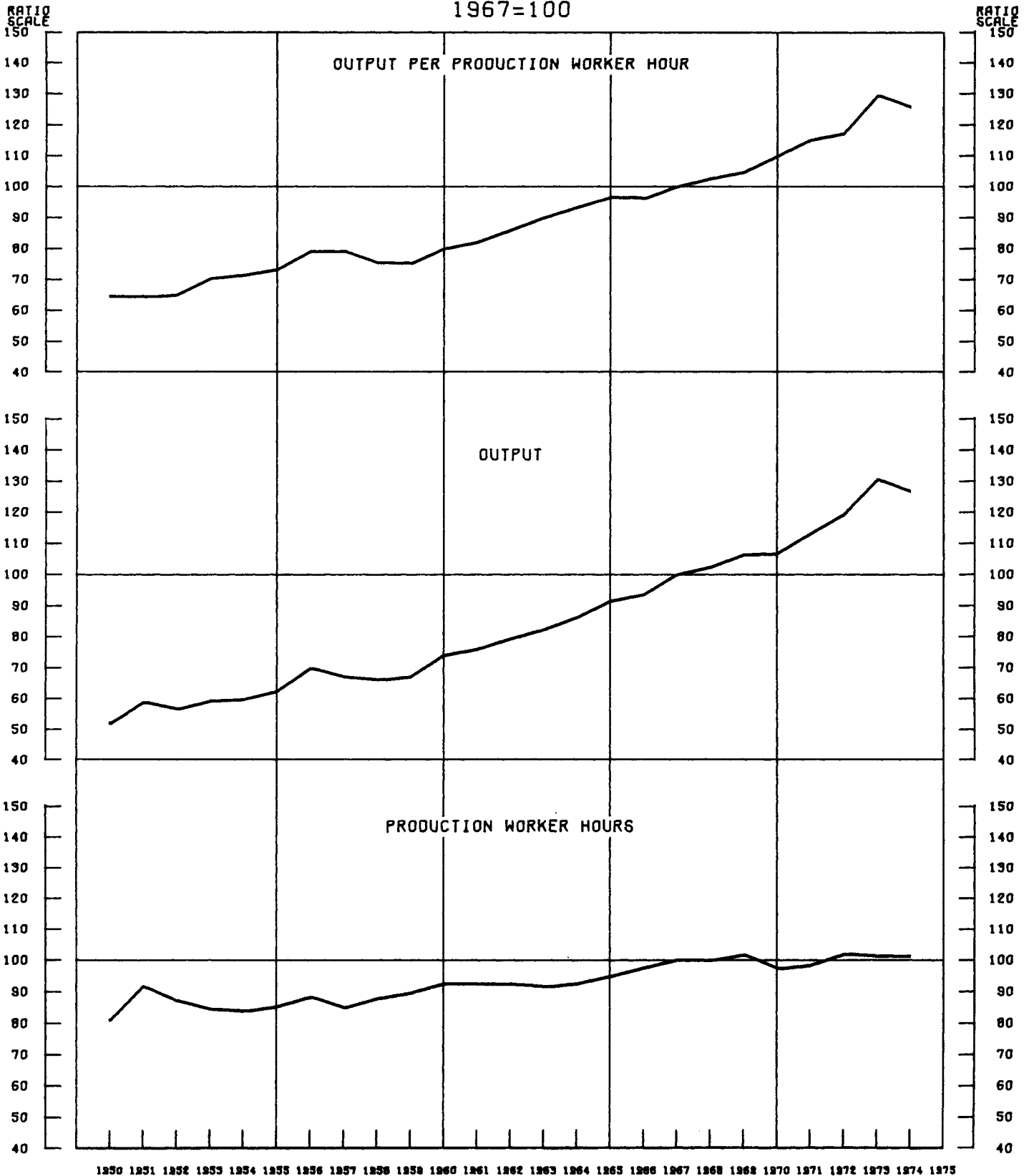
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS

CHART 10  
 CANNING AND PRESERVING (SIC 203), 1950-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

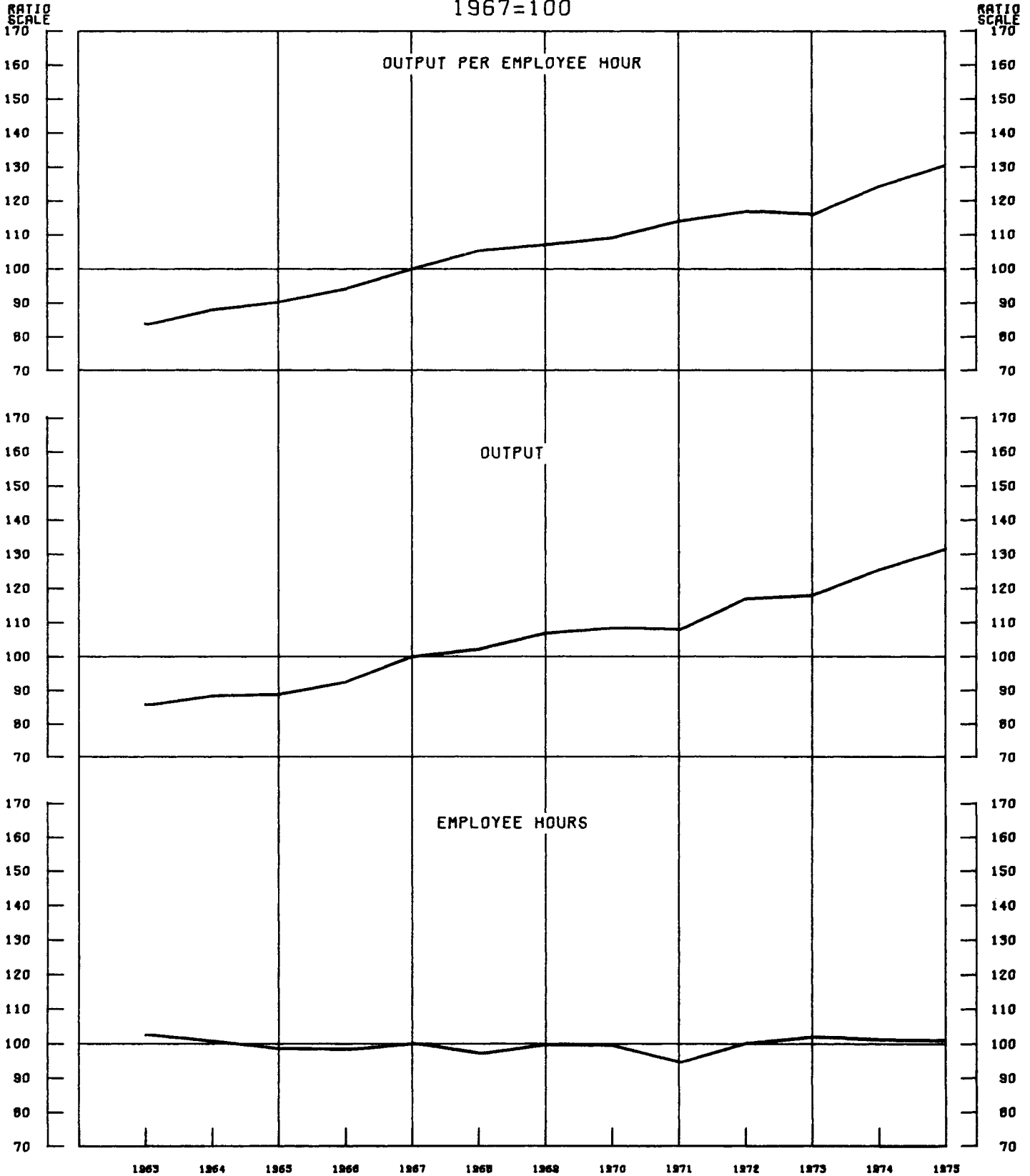
CHART 11  
 CANNING AND PRESERVING (SIC 203), 1950-74  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

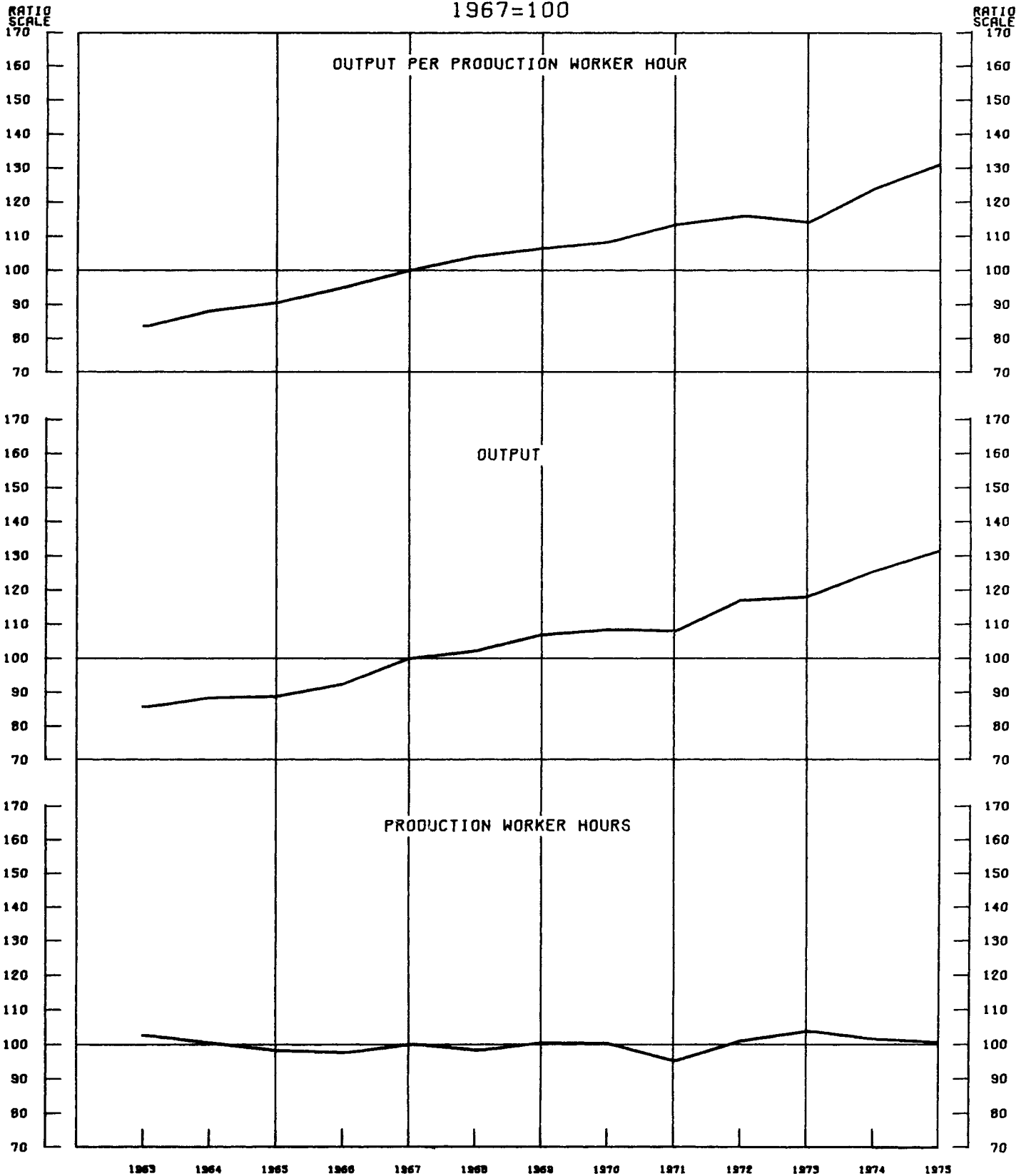


CHART 12  
 GRAIN MILL PRODUCTS (SIC 204), 1963-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



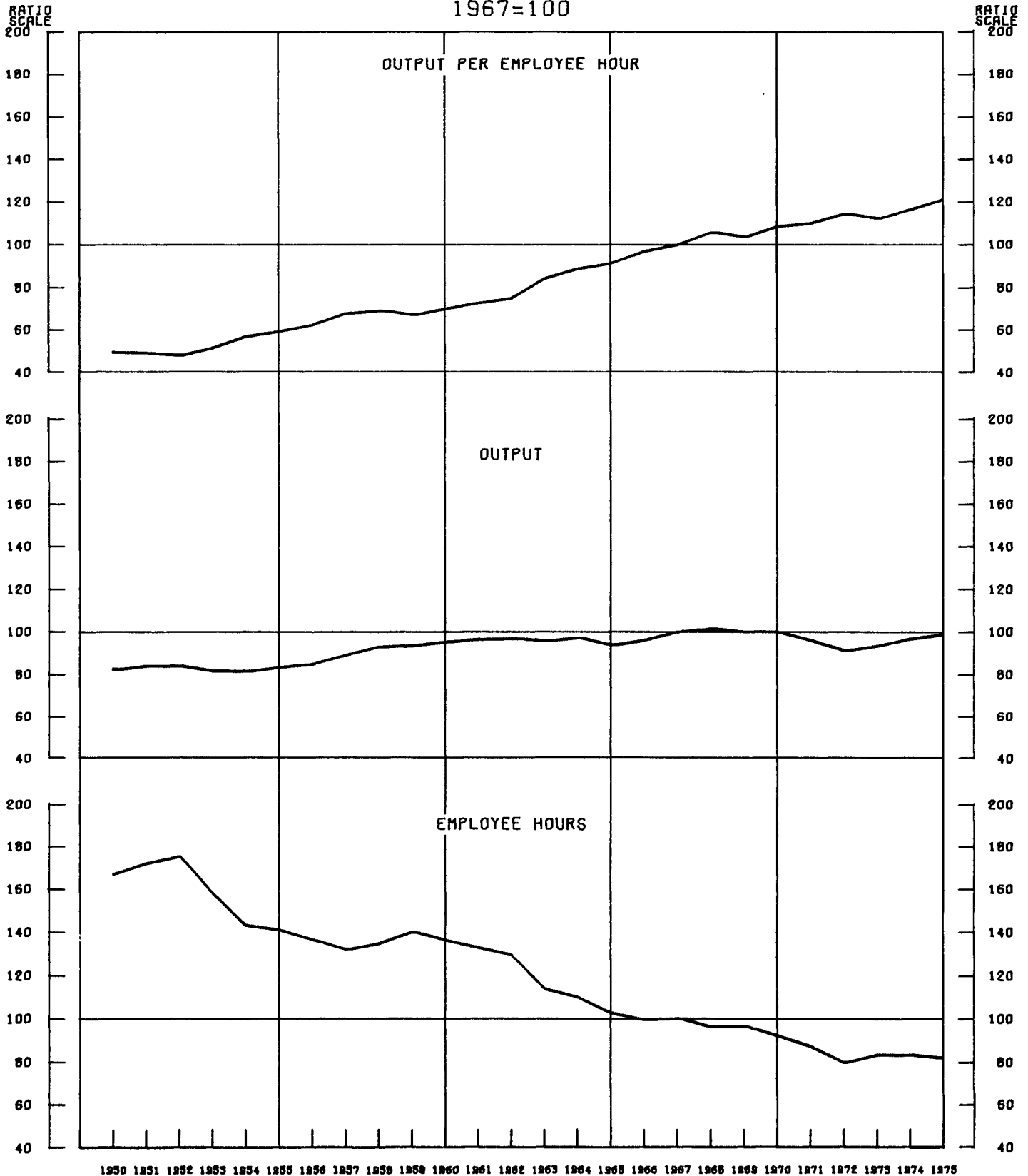
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 13  
 GRAIN MILL PRODUCTS (SIC 204), 1963-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



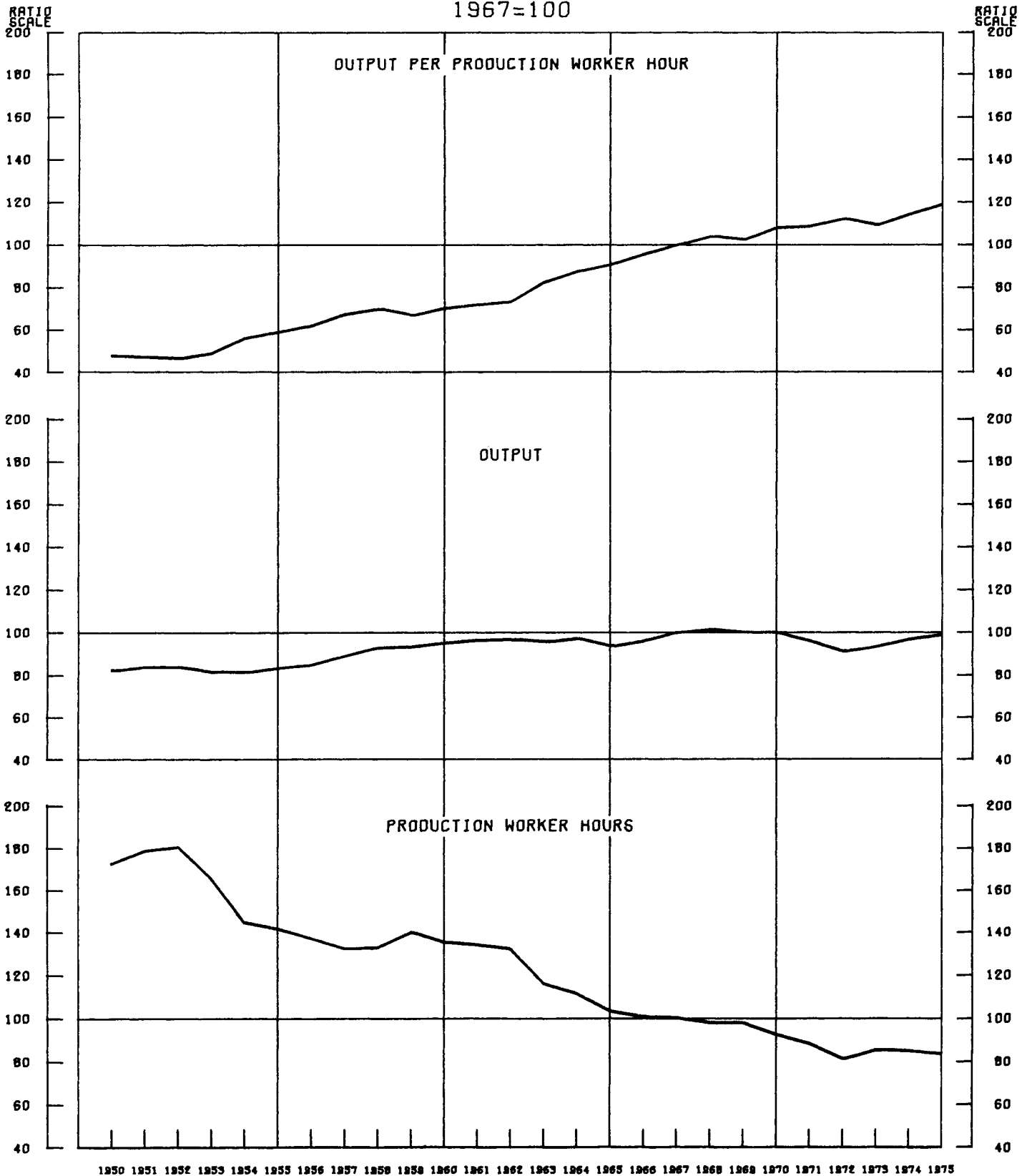
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 14  
 FLOUR AND OTHER GRAIN MILL PRODUCTS (SIC 2041), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



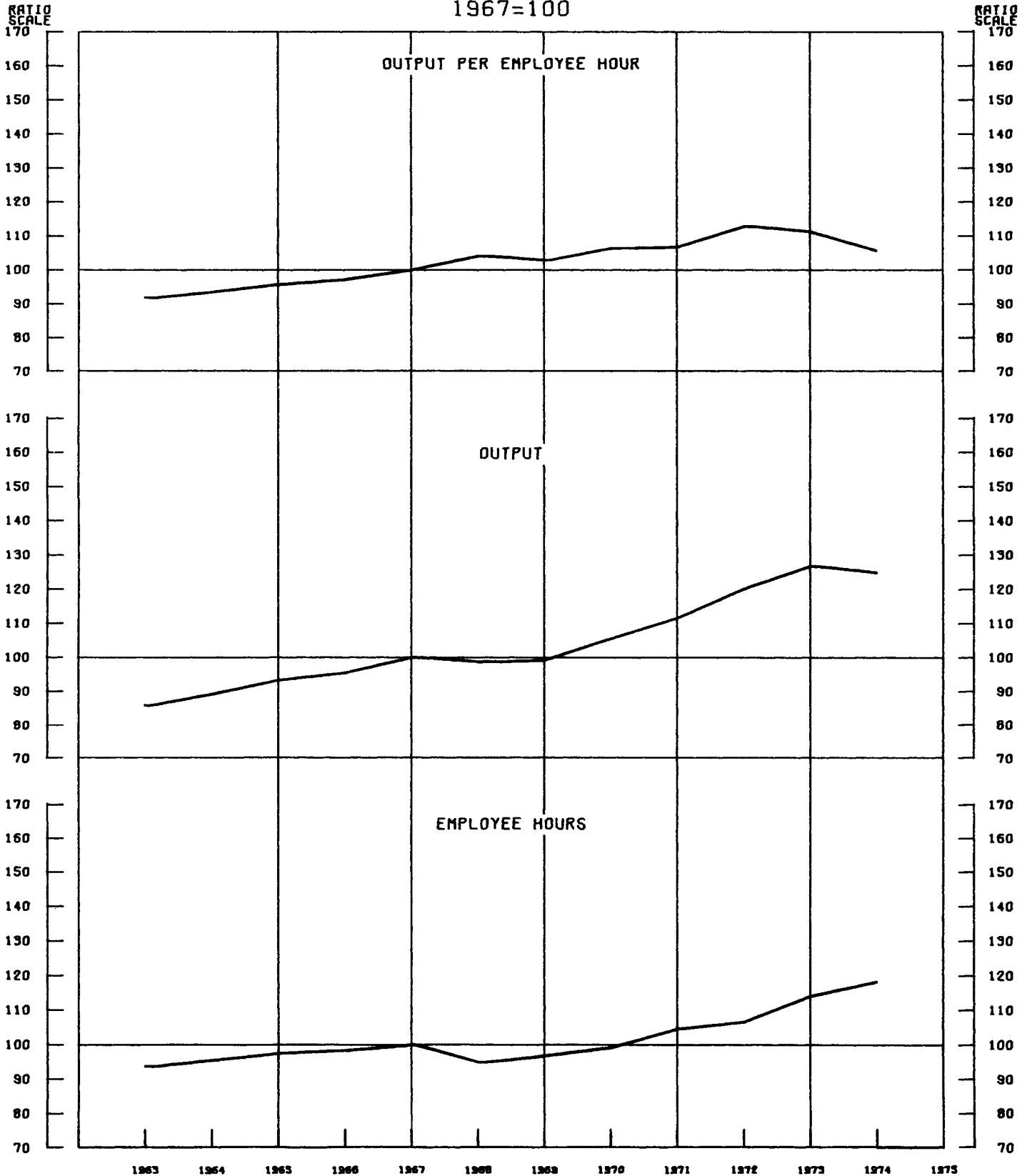
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 15  
 FLOUR AND OTHER GRAIN MILL PRODUCTS (SIC 2041), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



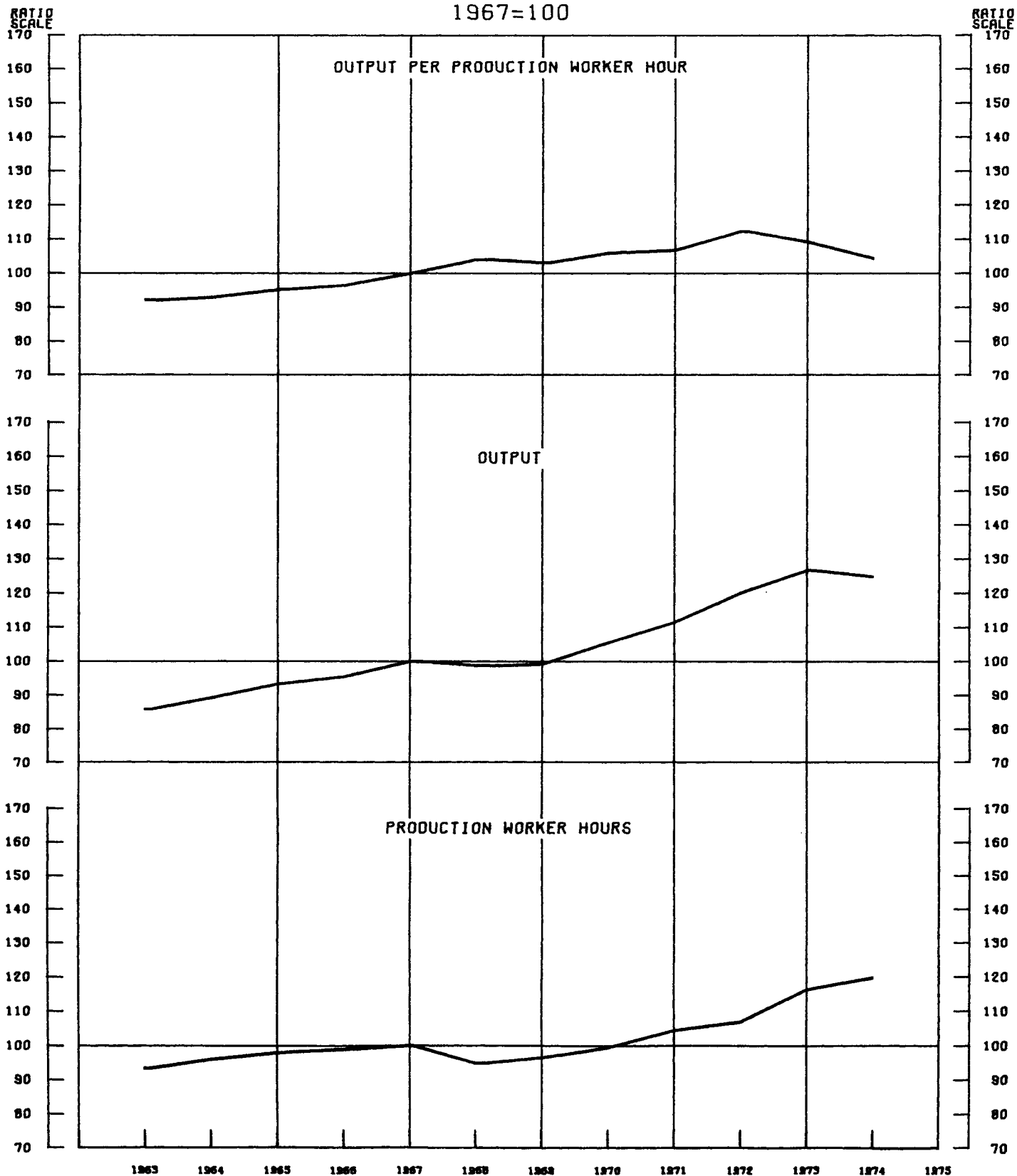
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 16  
 CEREAL BREAKFAST FOODS (SIC 2043), 1963-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



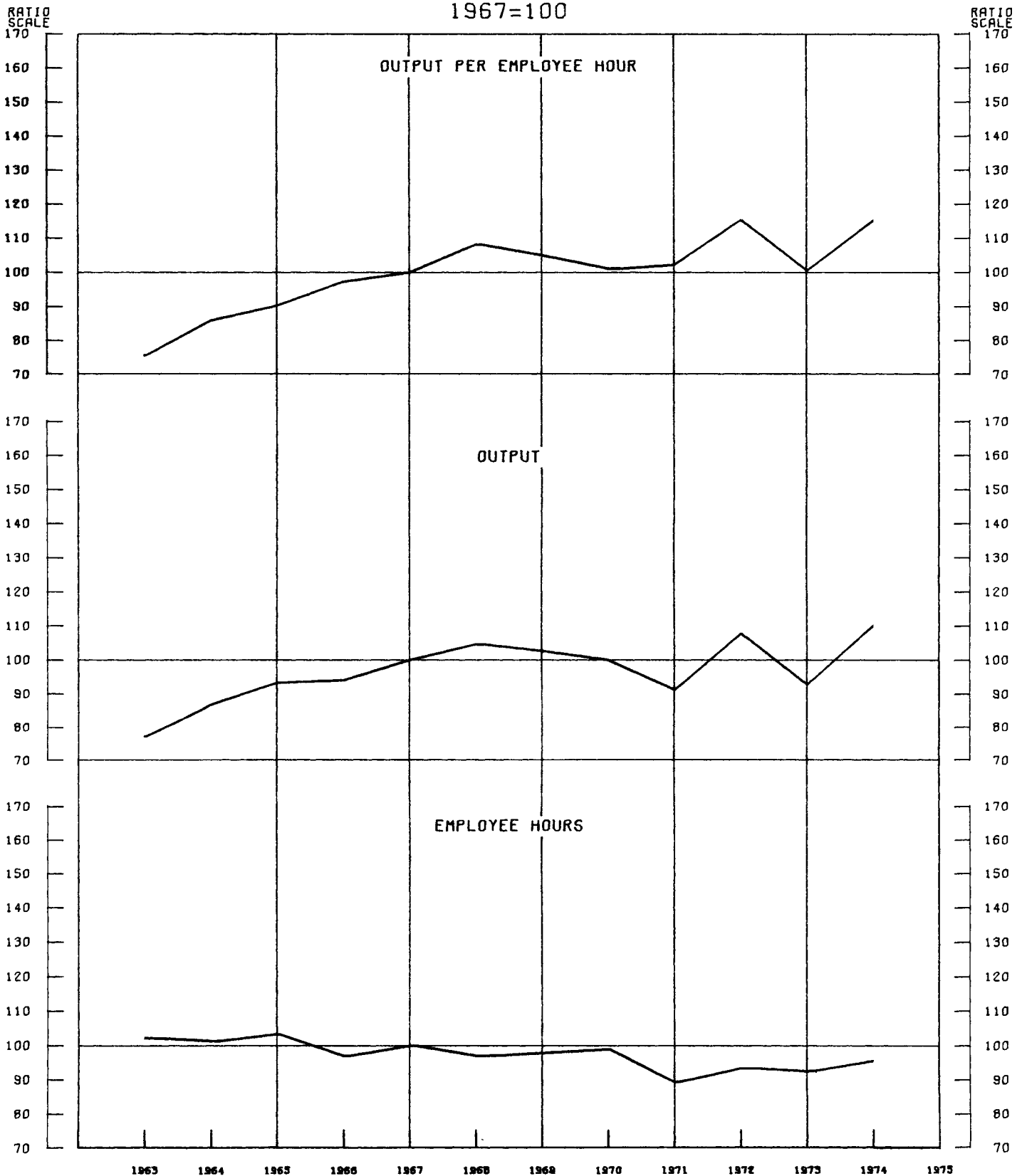
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 17  
 CEREAL BREAKFAST FOODS (SIC 2043), 1963-74  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



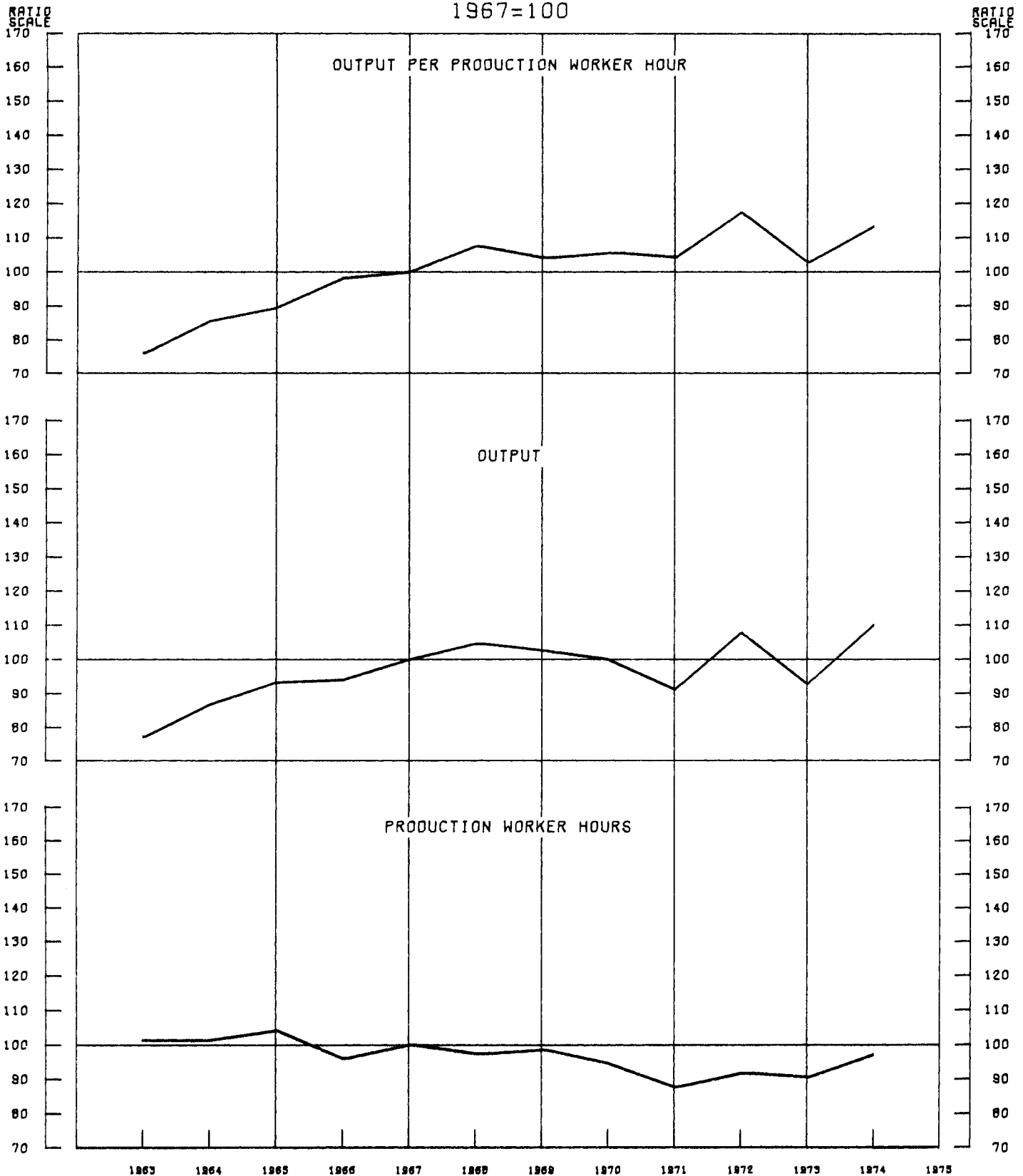
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 18  
 RICE MILLING (SIC 2044), 1963-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

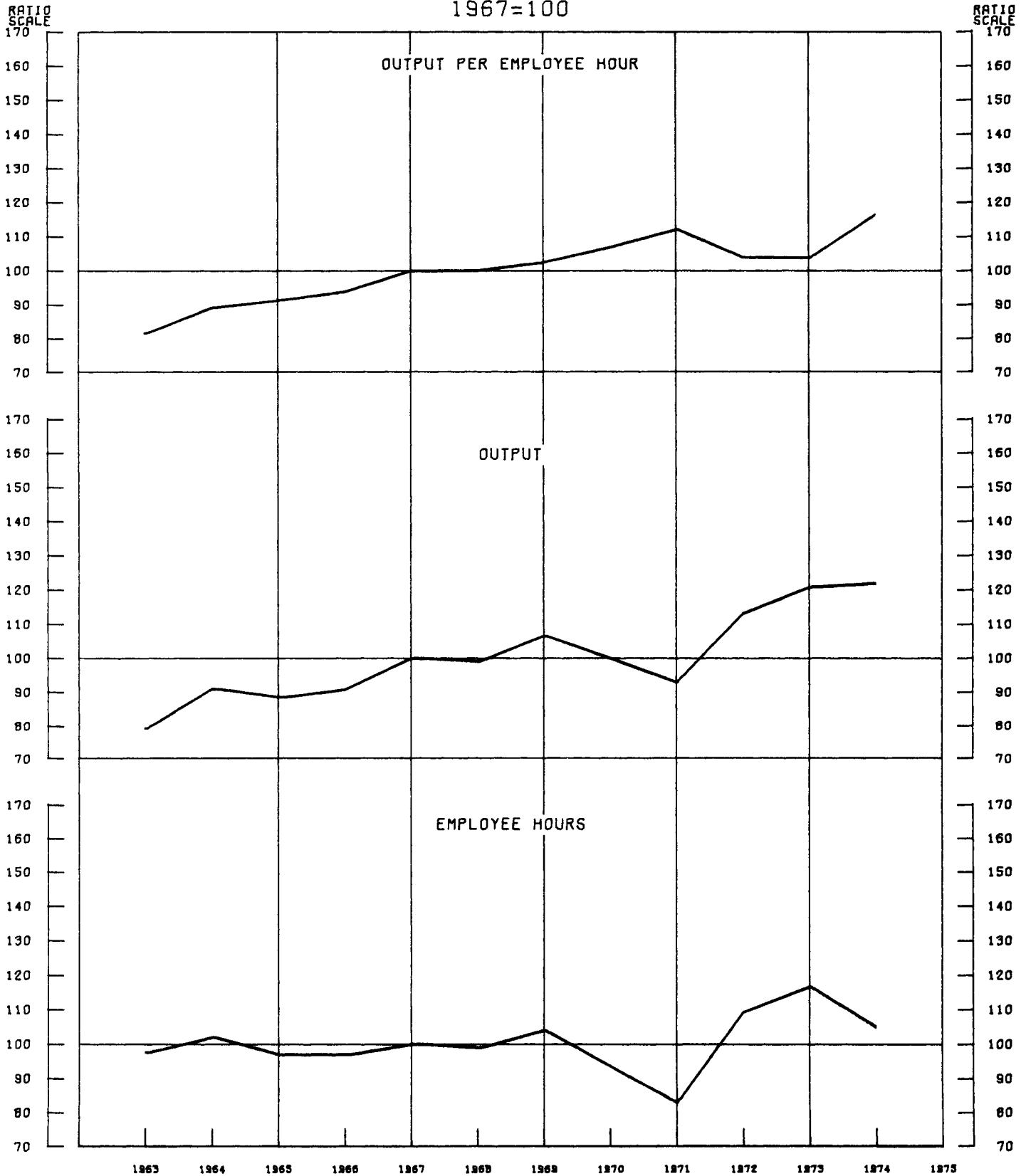
CHART 19  
 RICE MILLING (SIC 2044), 1963-74  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

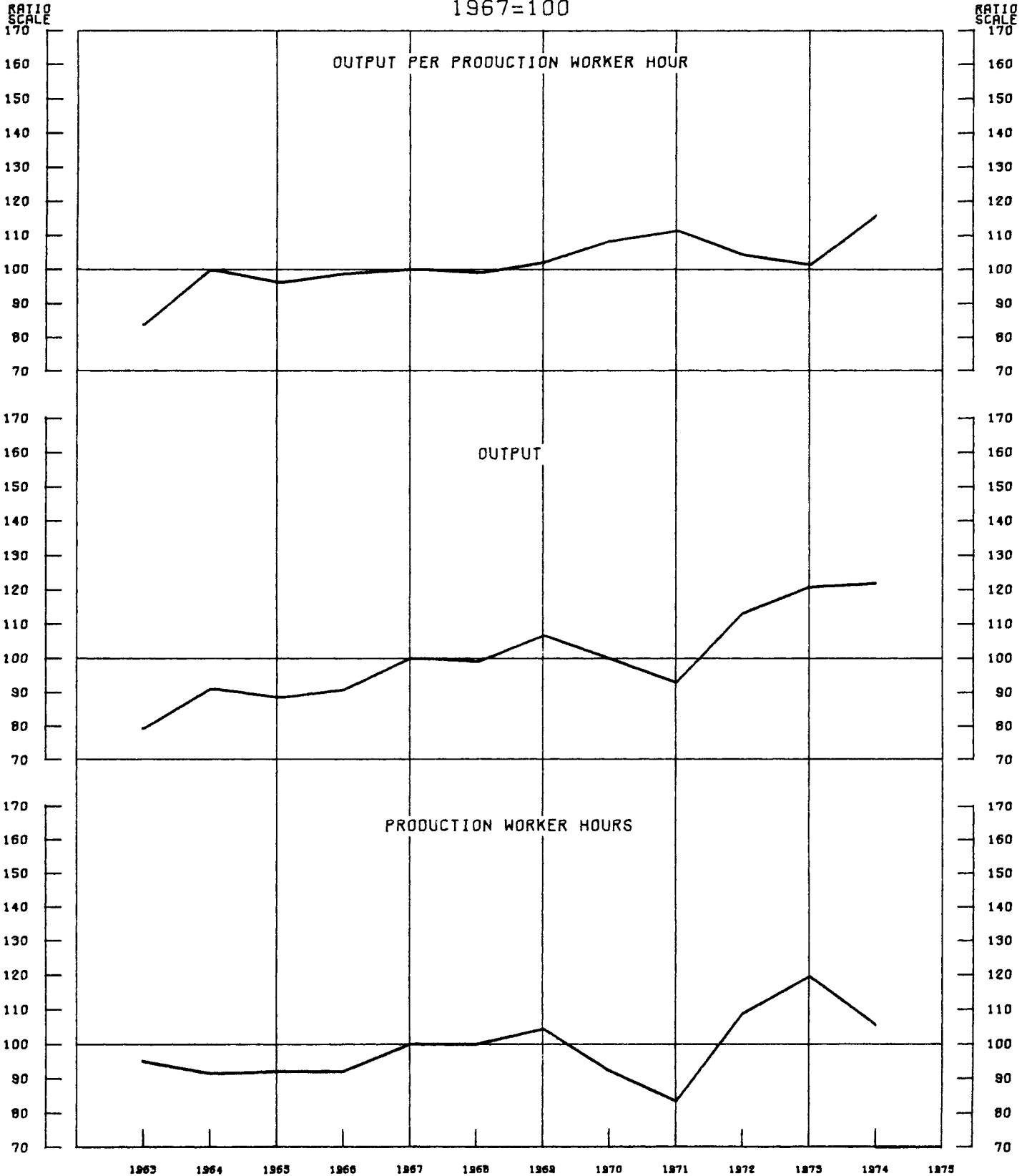


CHART 20  
 BLENDED AND PREPARED FLOUR (SIC 2045), 1963-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



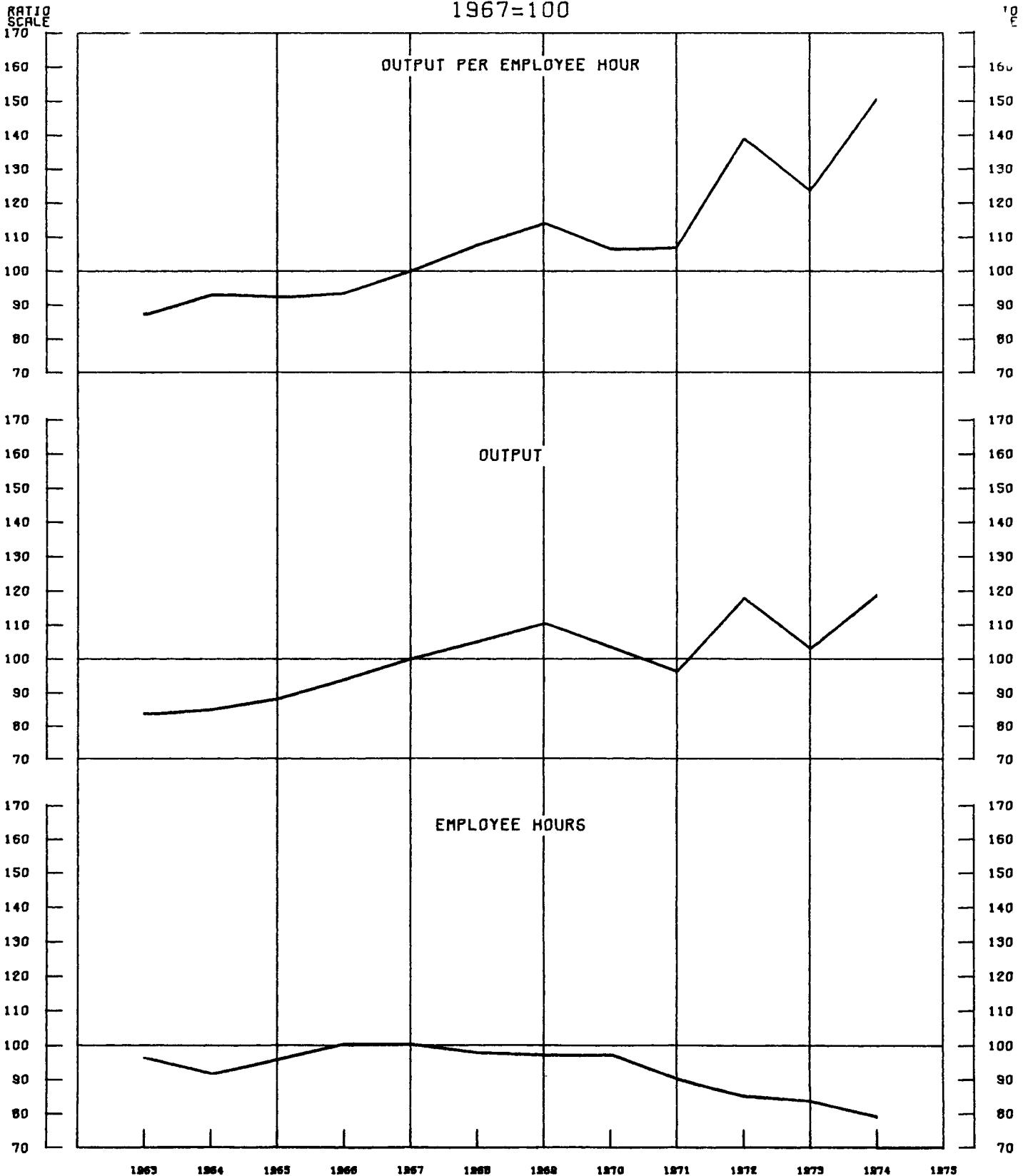
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 21  
 BLENDED AND PREPARED FLOUR (SIC 2045), 1963-74  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



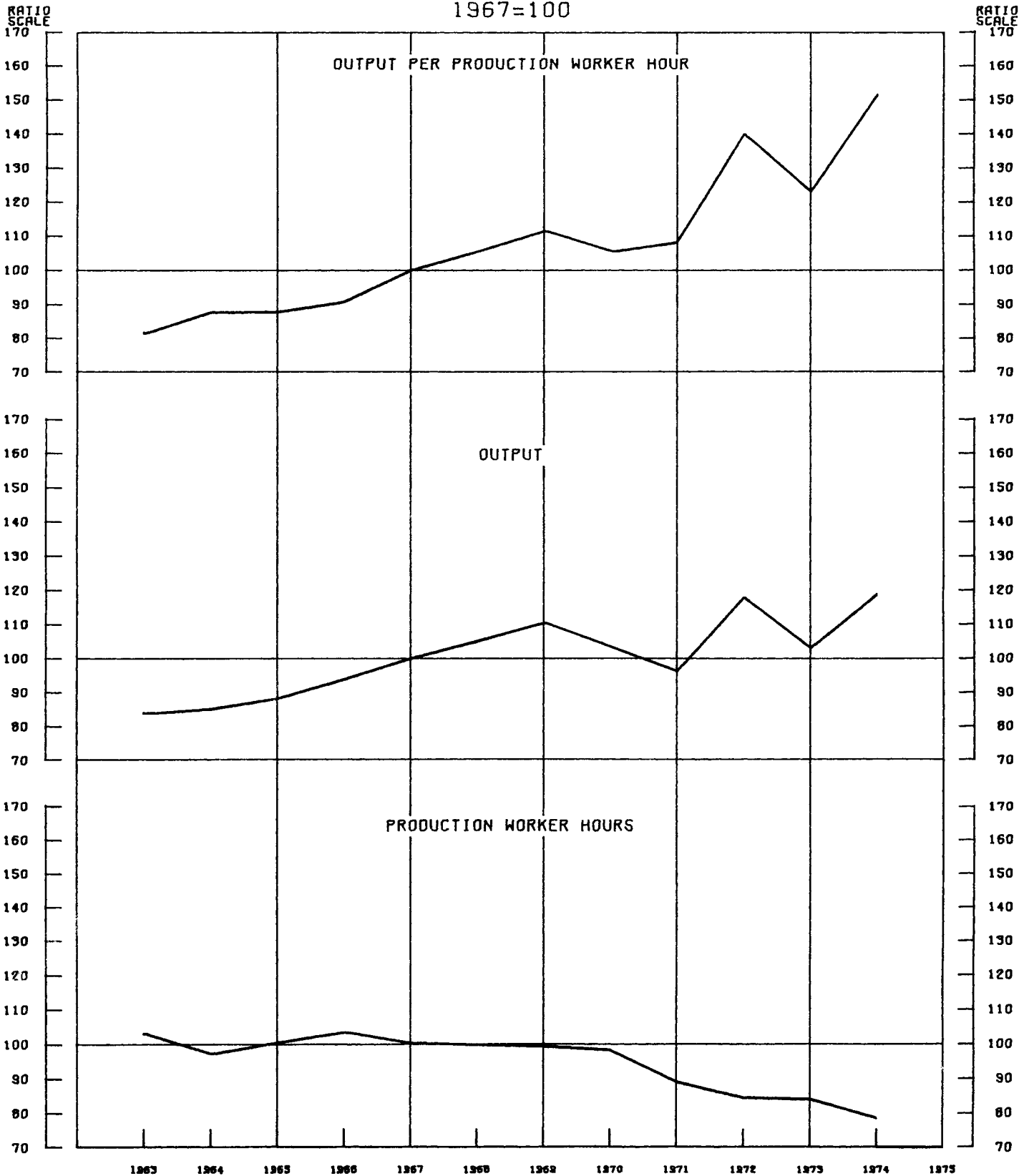
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 22  
 WET CORN MILLING (SIC 2046). 1963-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



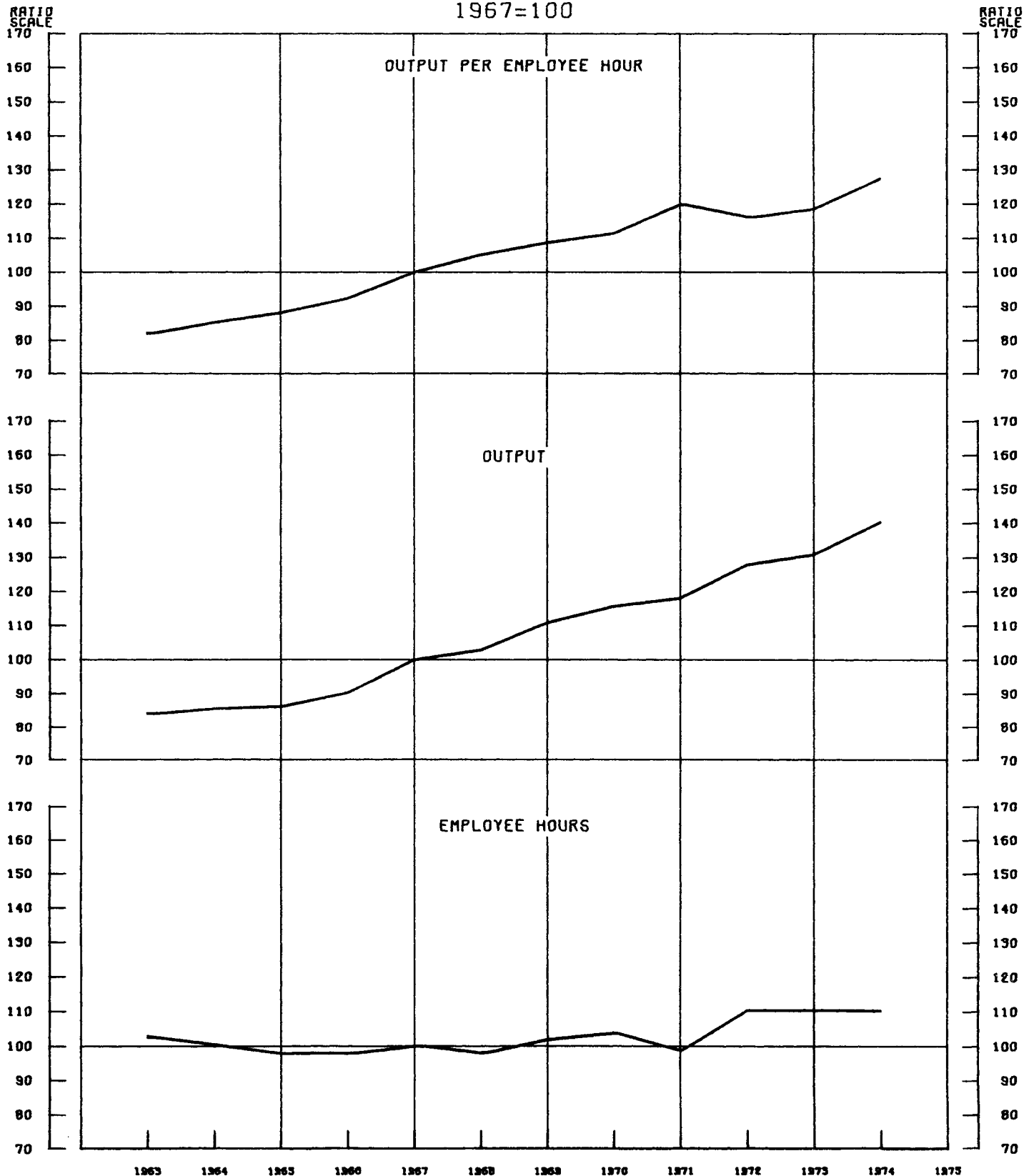
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 23  
 WET CORN MILLING (SIC 2046), 1963-74  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



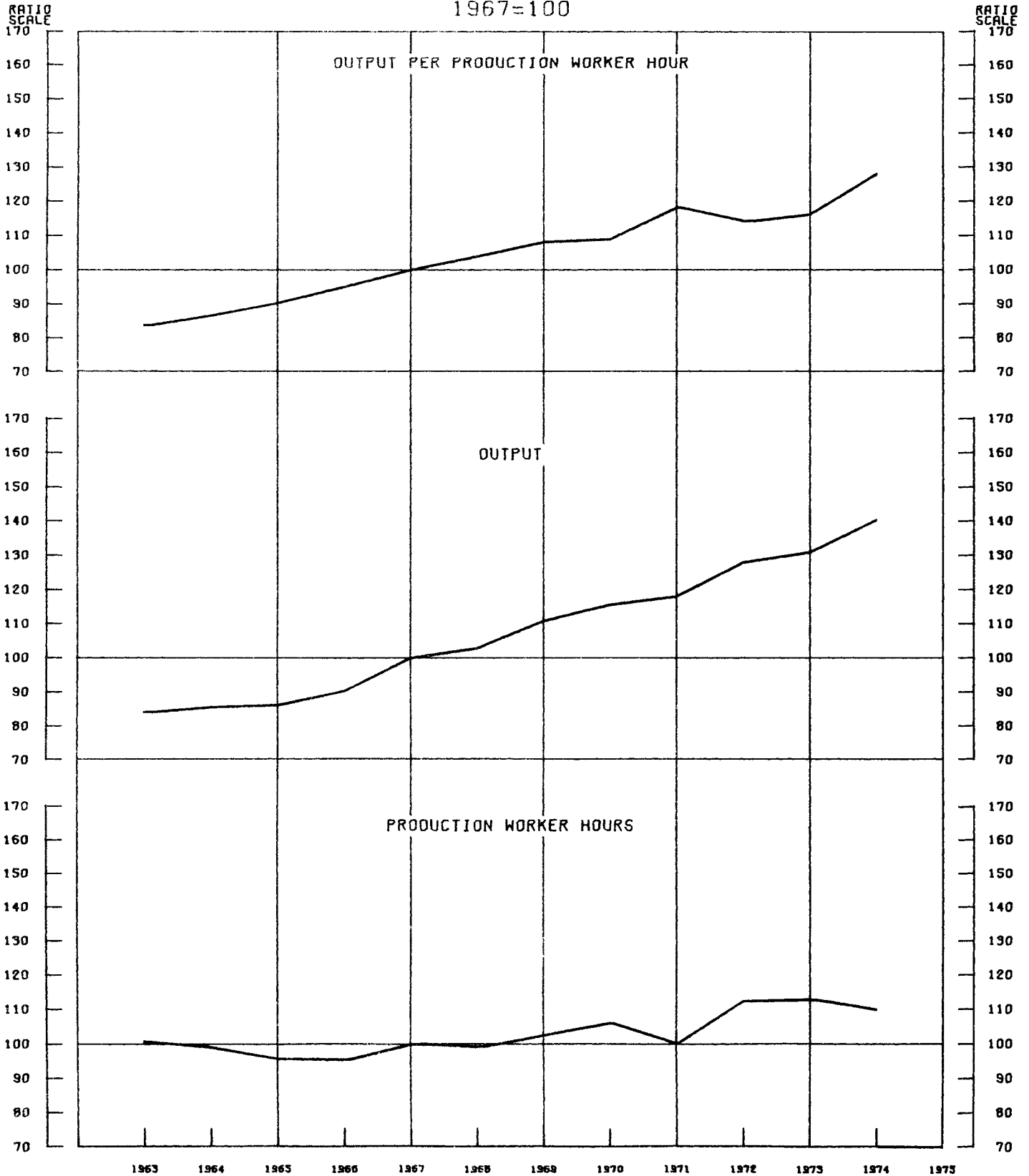
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 24  
 PREPARED FEEDS FOR ANIMALS AND FOWLS (SIC 2047. 48). 1963-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



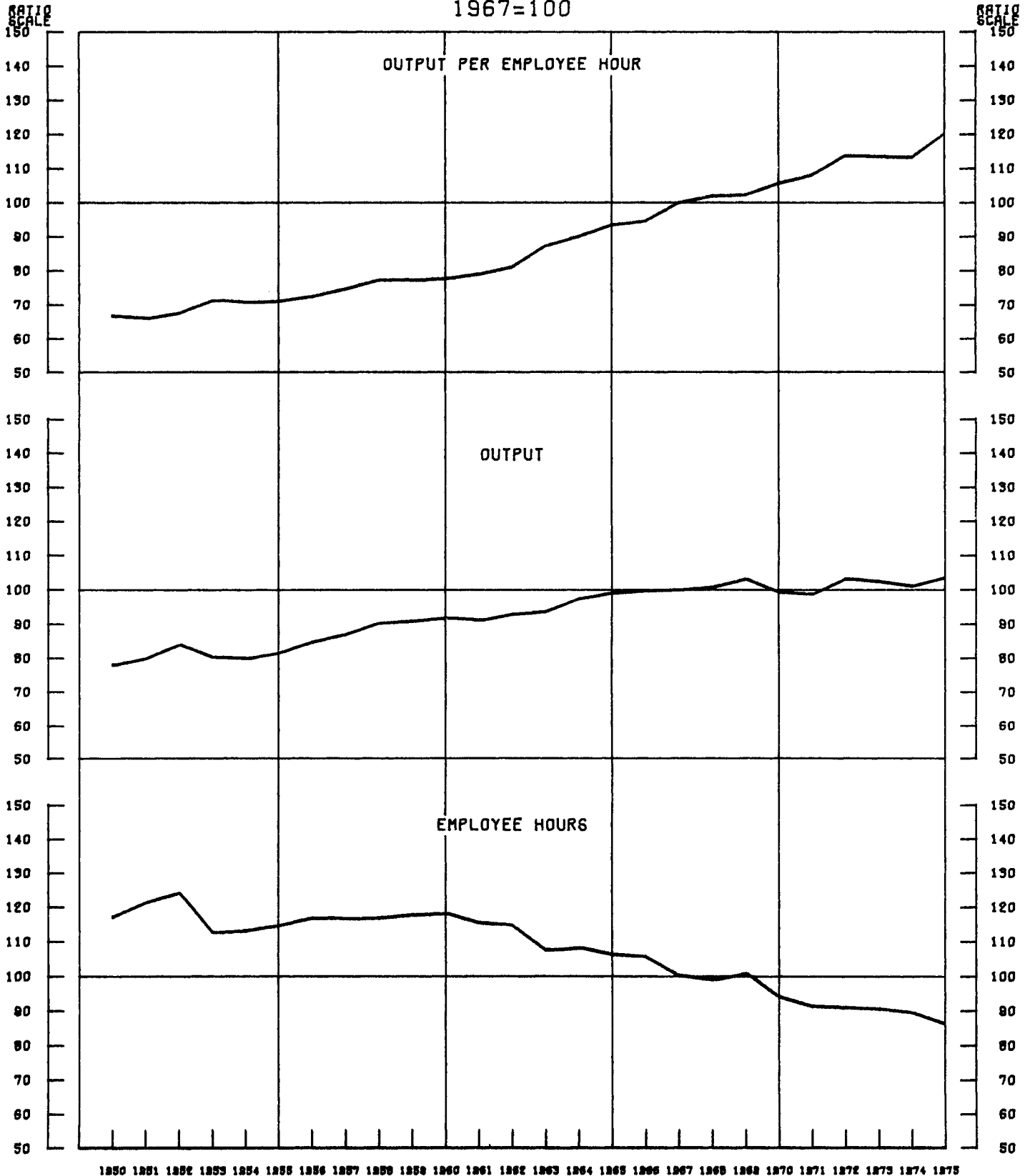
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 25  
 PREPARED FEEDS FOR ANIMALS AND FOWLS (SIC 2047, 48), 1963-74  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



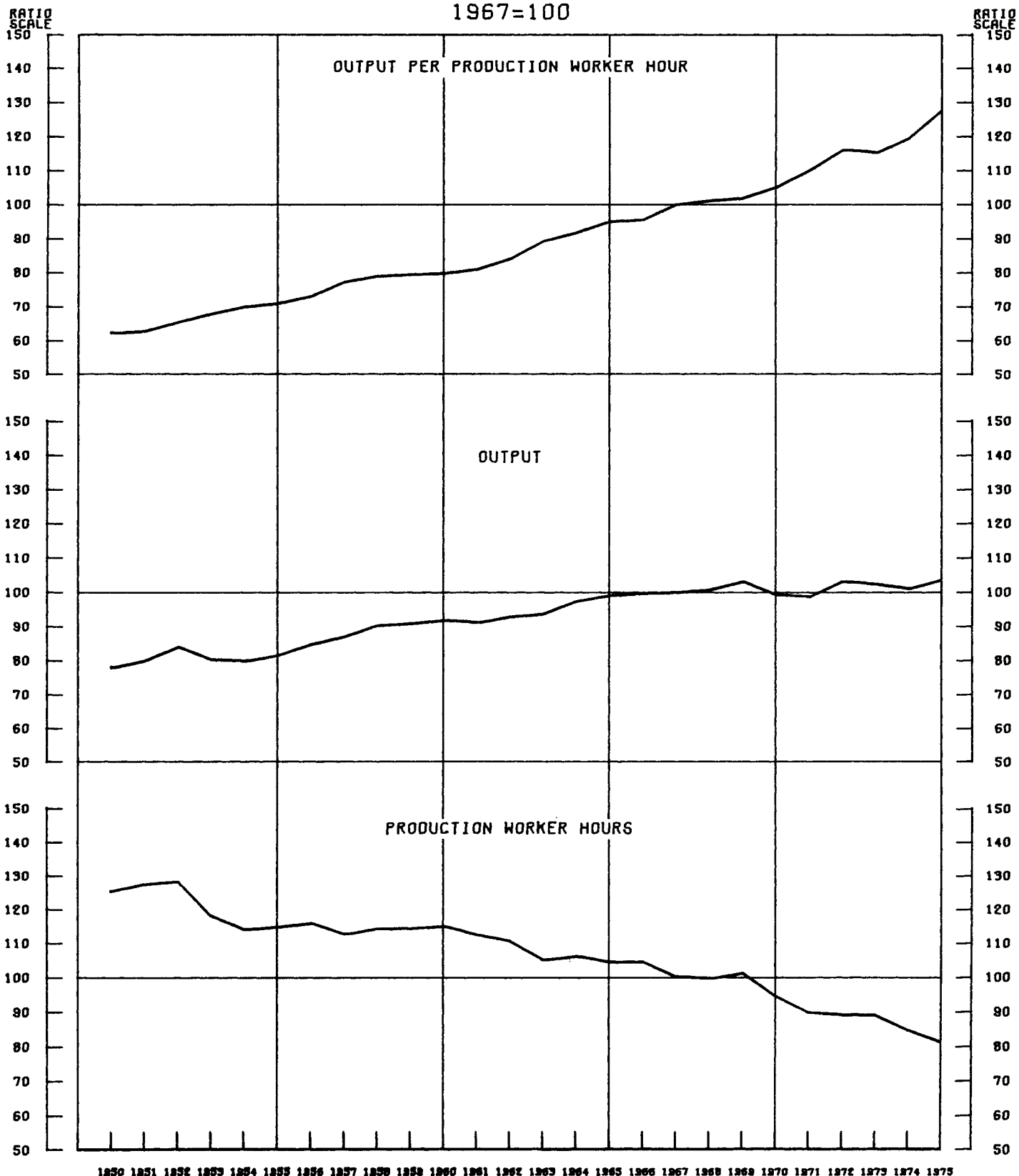
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 26  
 BAKERY PRODUCTS (SIC 205), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 27  
 BAKERY PRODUCTS (SIC 205), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.



CHART 28  
 SUGAR (SIC 2061, 2062, 2063), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

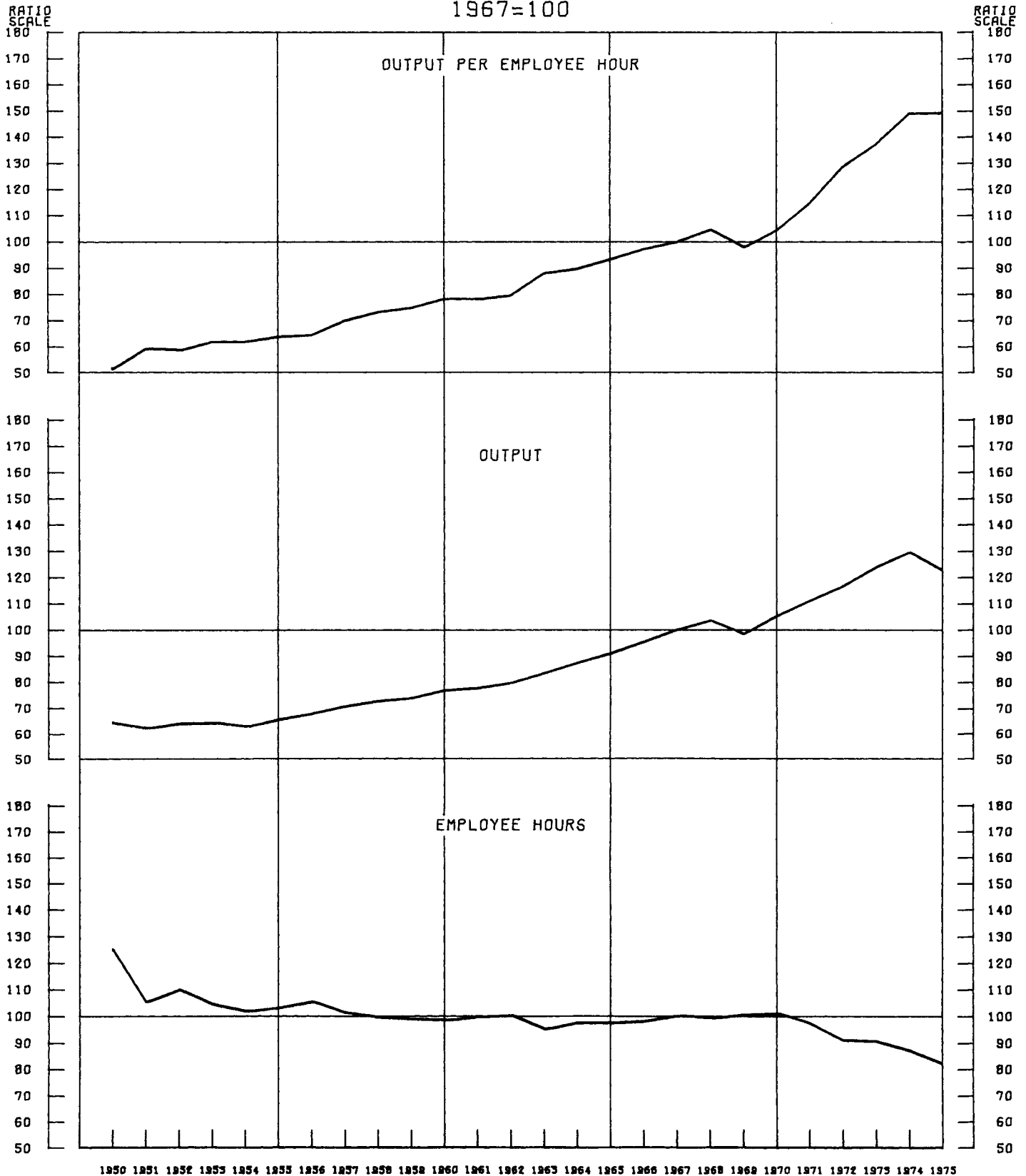
CHART 29  
 SUGAR (SIC 2061, 2062, 2063), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975

SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 30  
 CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2065), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



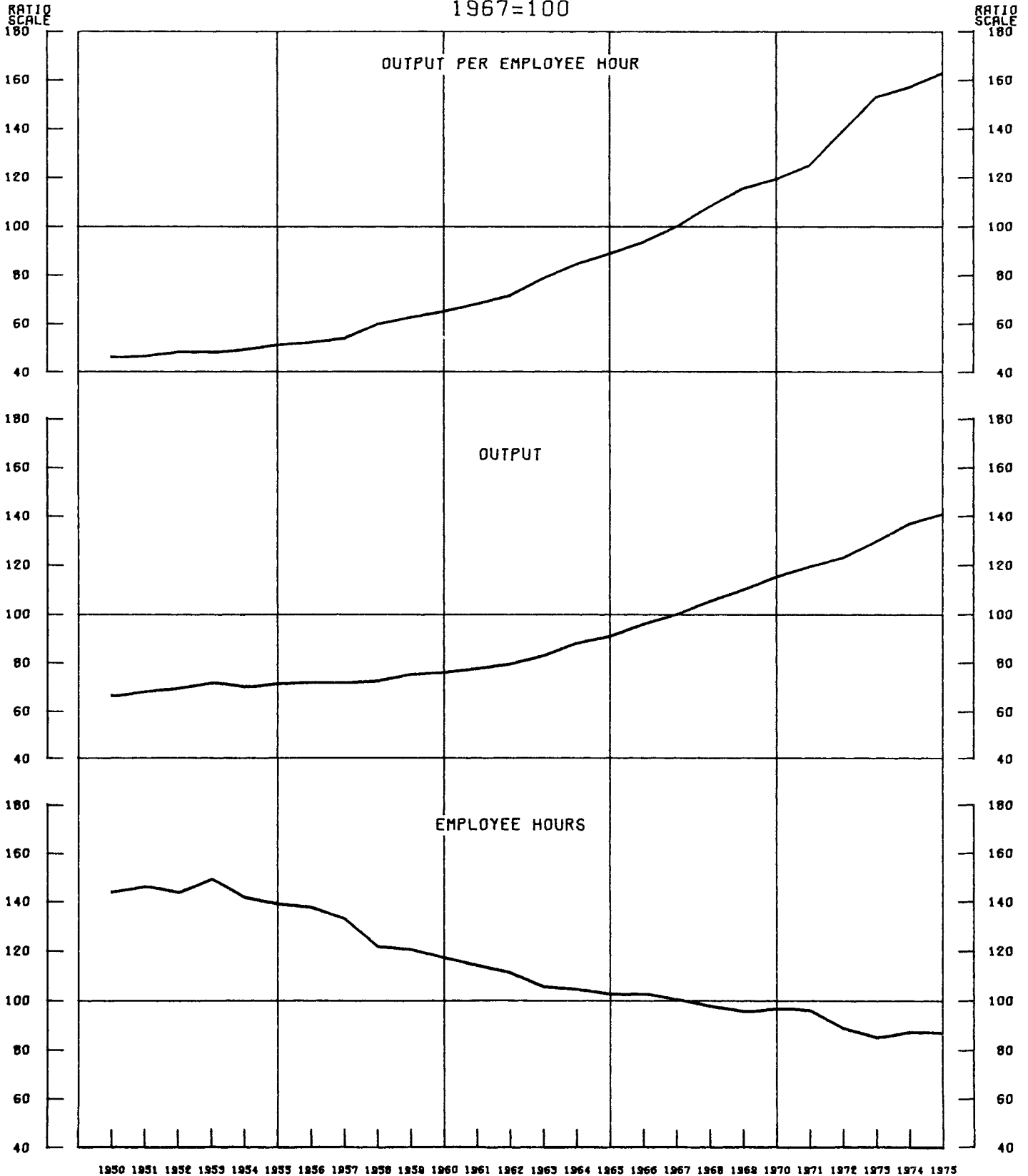
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 31  
 CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2065), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



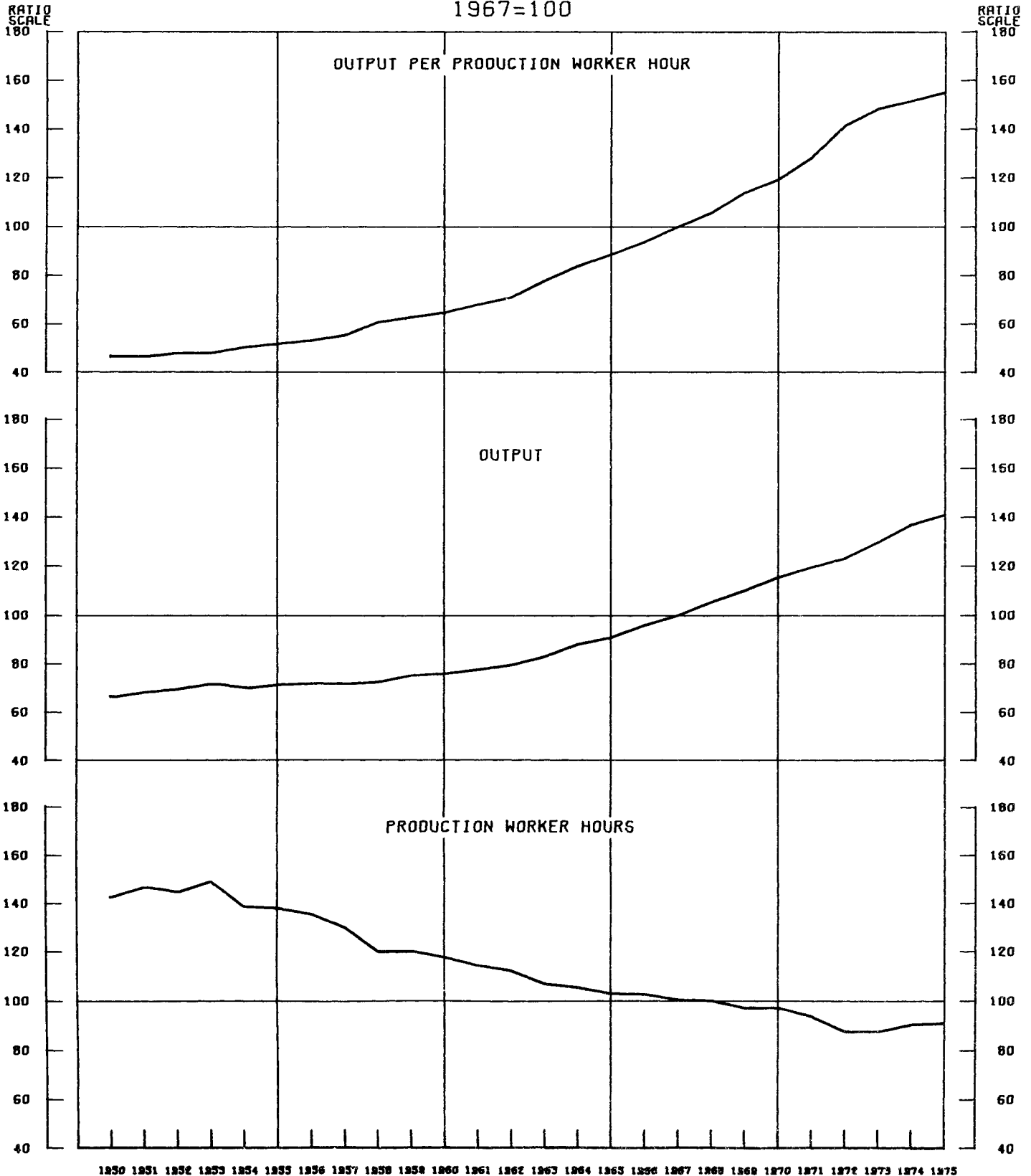
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 32  
MALT LIQUORS (SIC 2082), 1950-75  
OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 33  
MALT LIQUORS (SIC 2082), 1950-75  
OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 34  
 BOTTLED AND CANNED SOFT DRINKS (SIC 2086), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

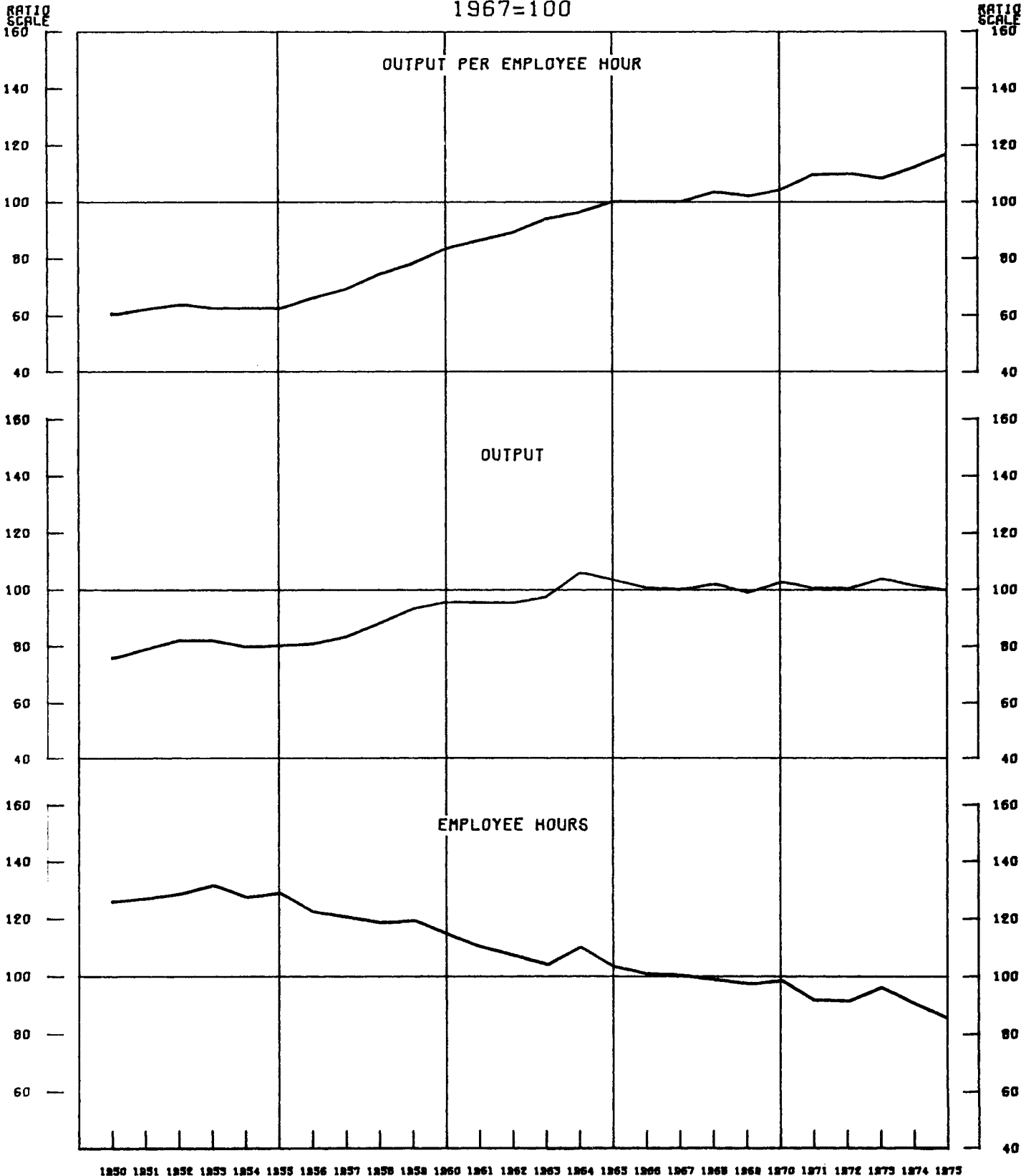
CHART 35  
 BOTTLED AND CANNED SOFT DRINKS (SIC 2086), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

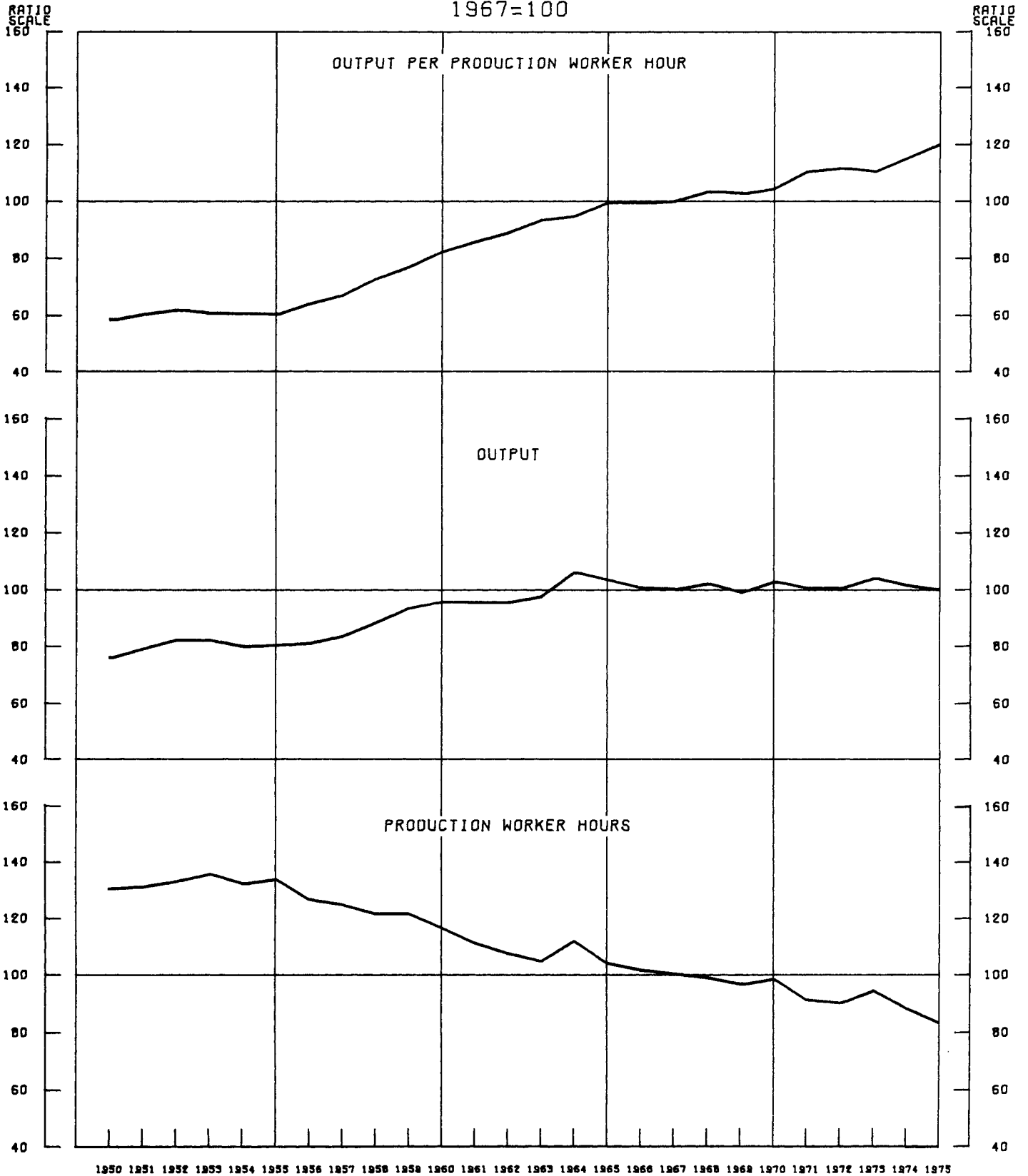


CHART 36  
 TOBACCO PRODUCTS-TOTAL (SIC 2111, 2121, 2131), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



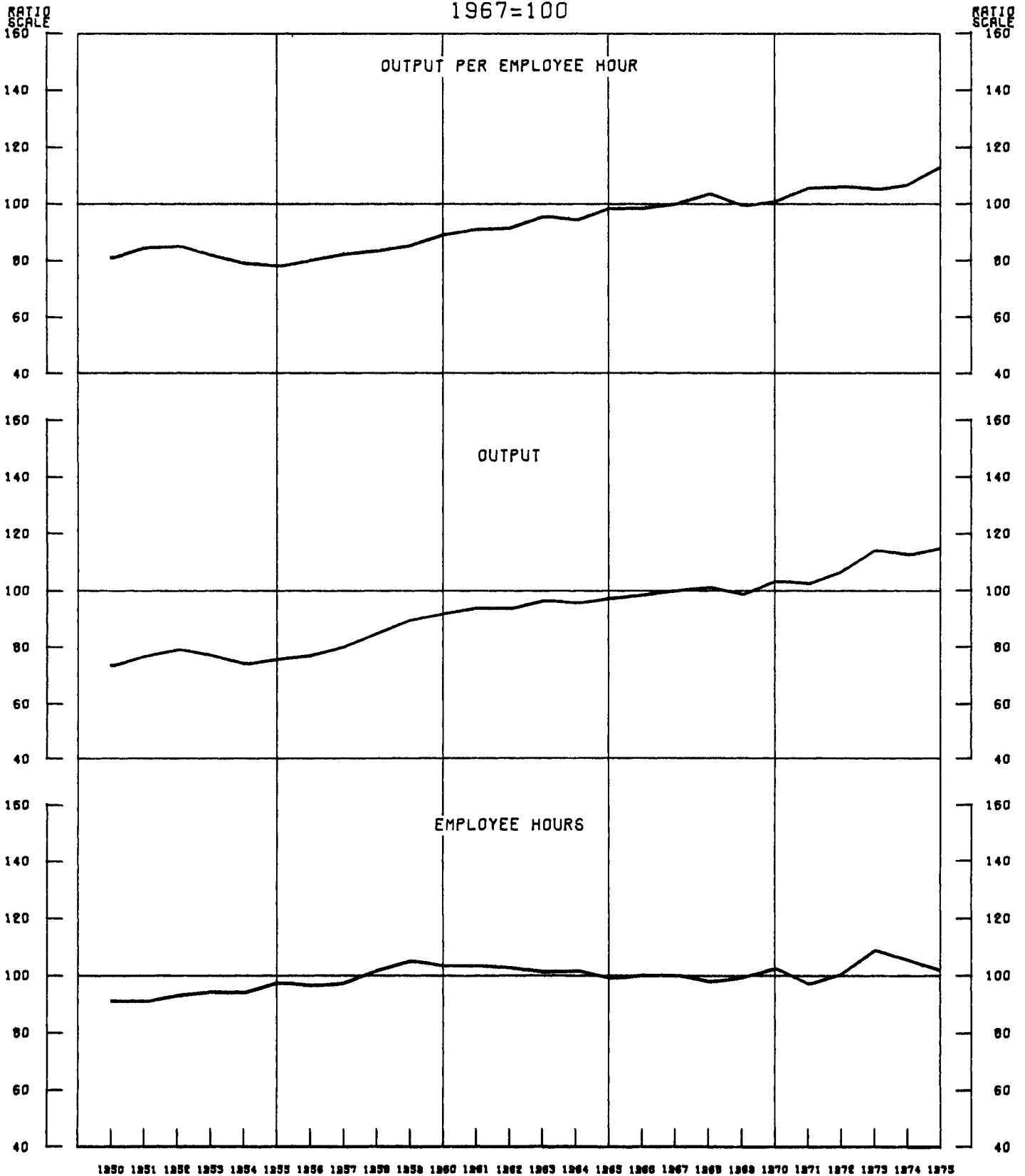
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 37  
 TOBACCO PRODUCTS-TOTAL (SIC 2111, 2121, 2131), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



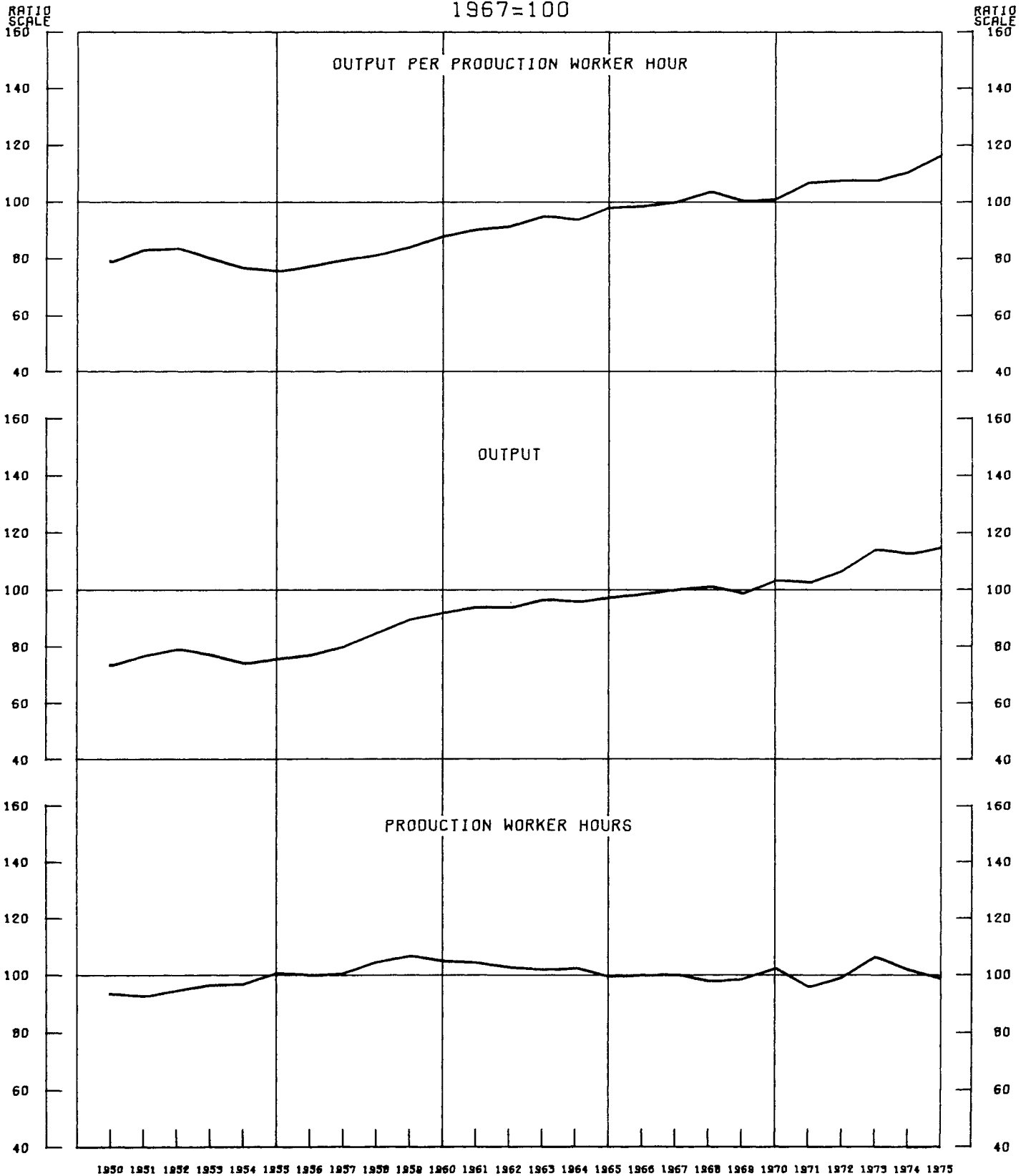
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 38  
 CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 2111, 31). 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



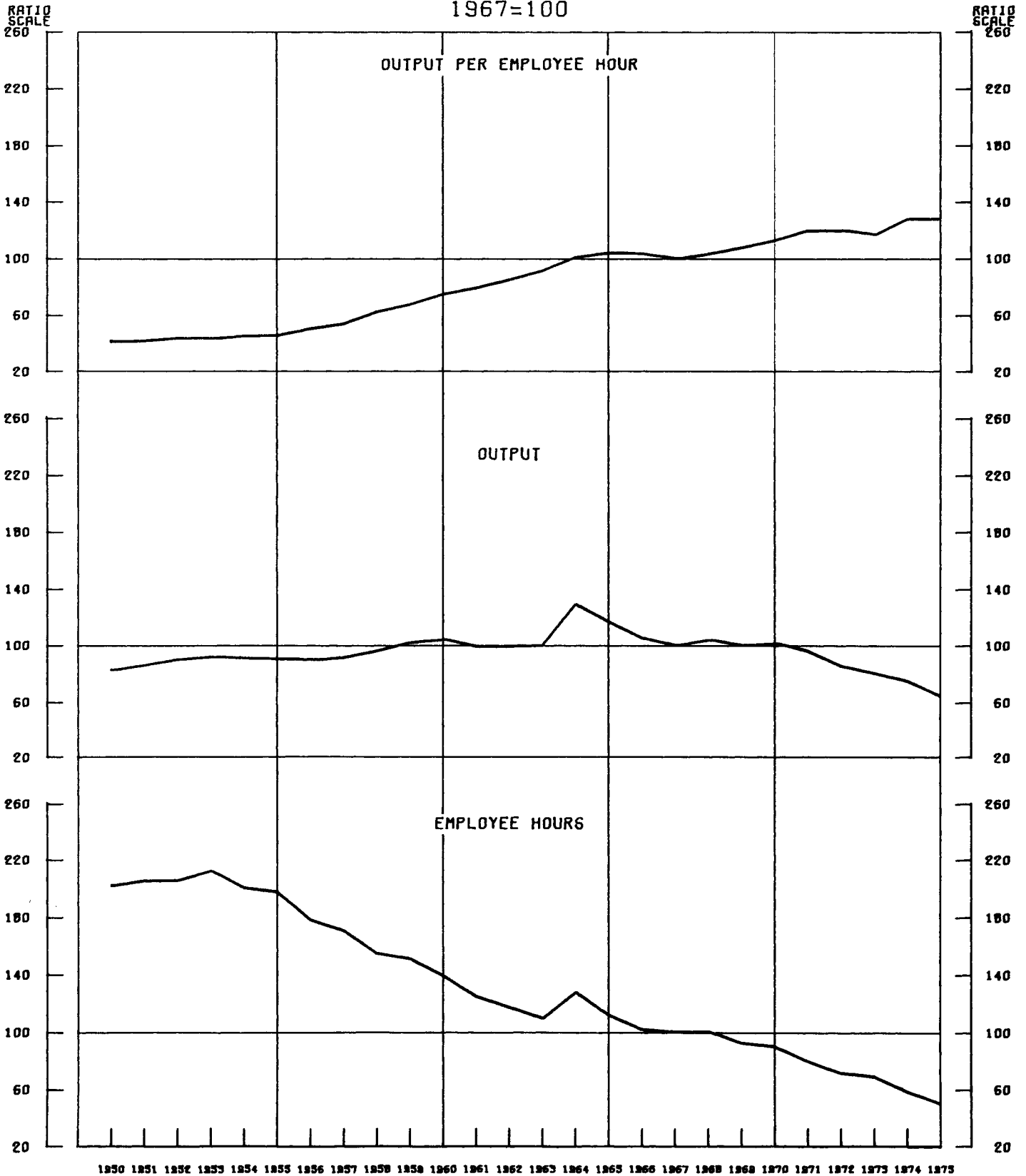
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 39  
 CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 2111. 31), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



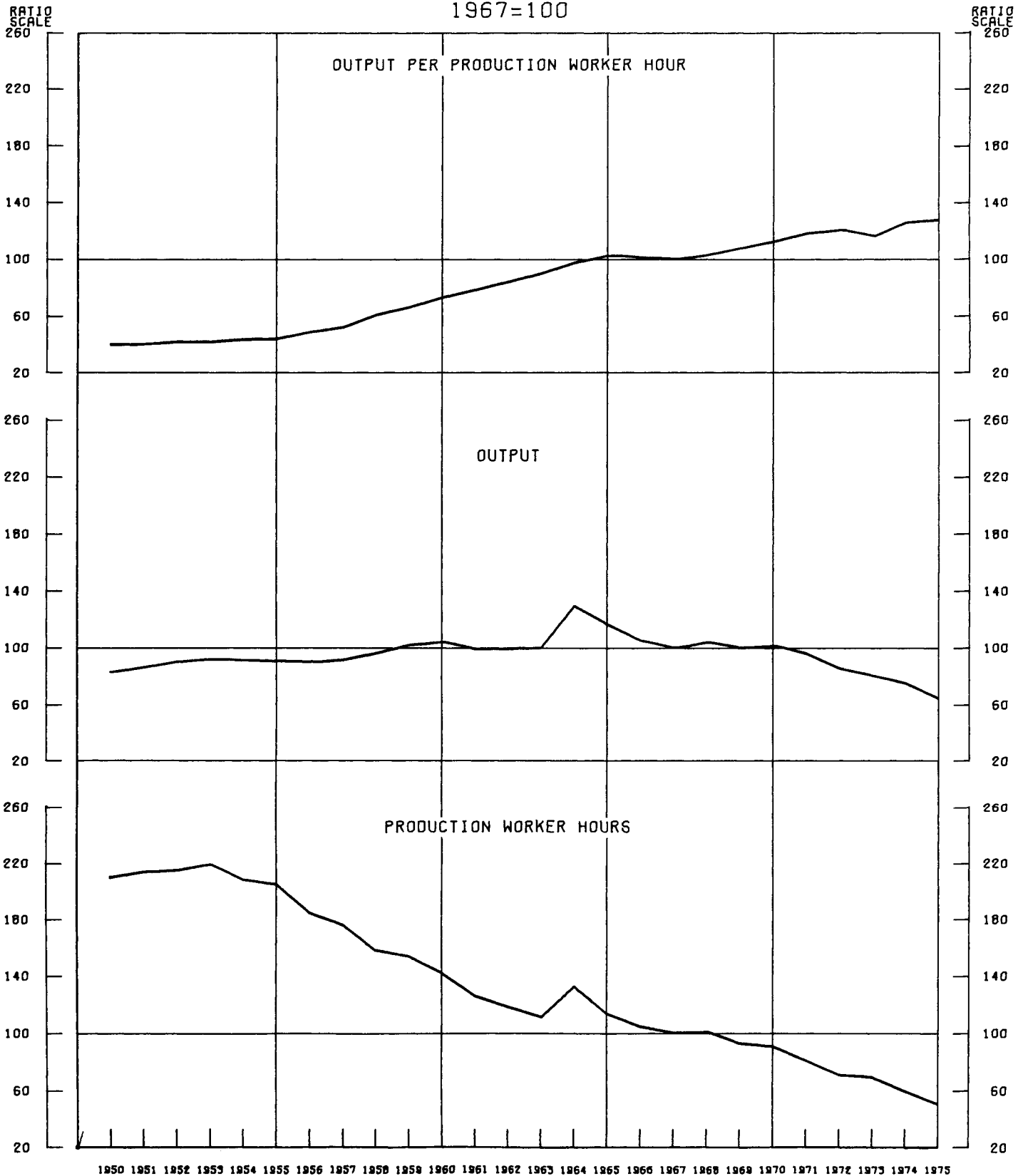
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 40  
 CIGARS (SIC 2121). 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



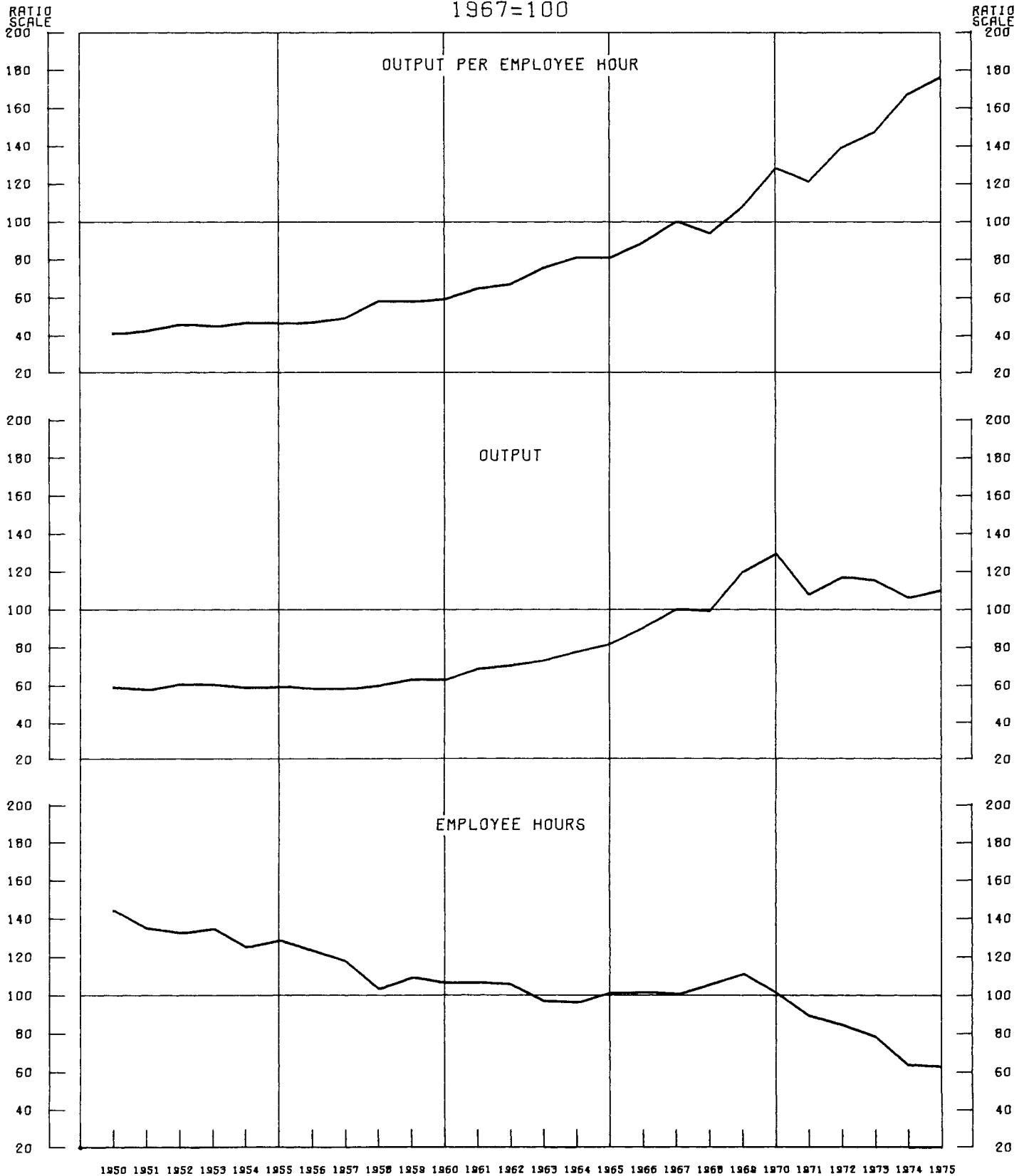
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 41  
 CIGARS (SIC 2121), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 42  
 HOSIERY (SIC 2251, 2252), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

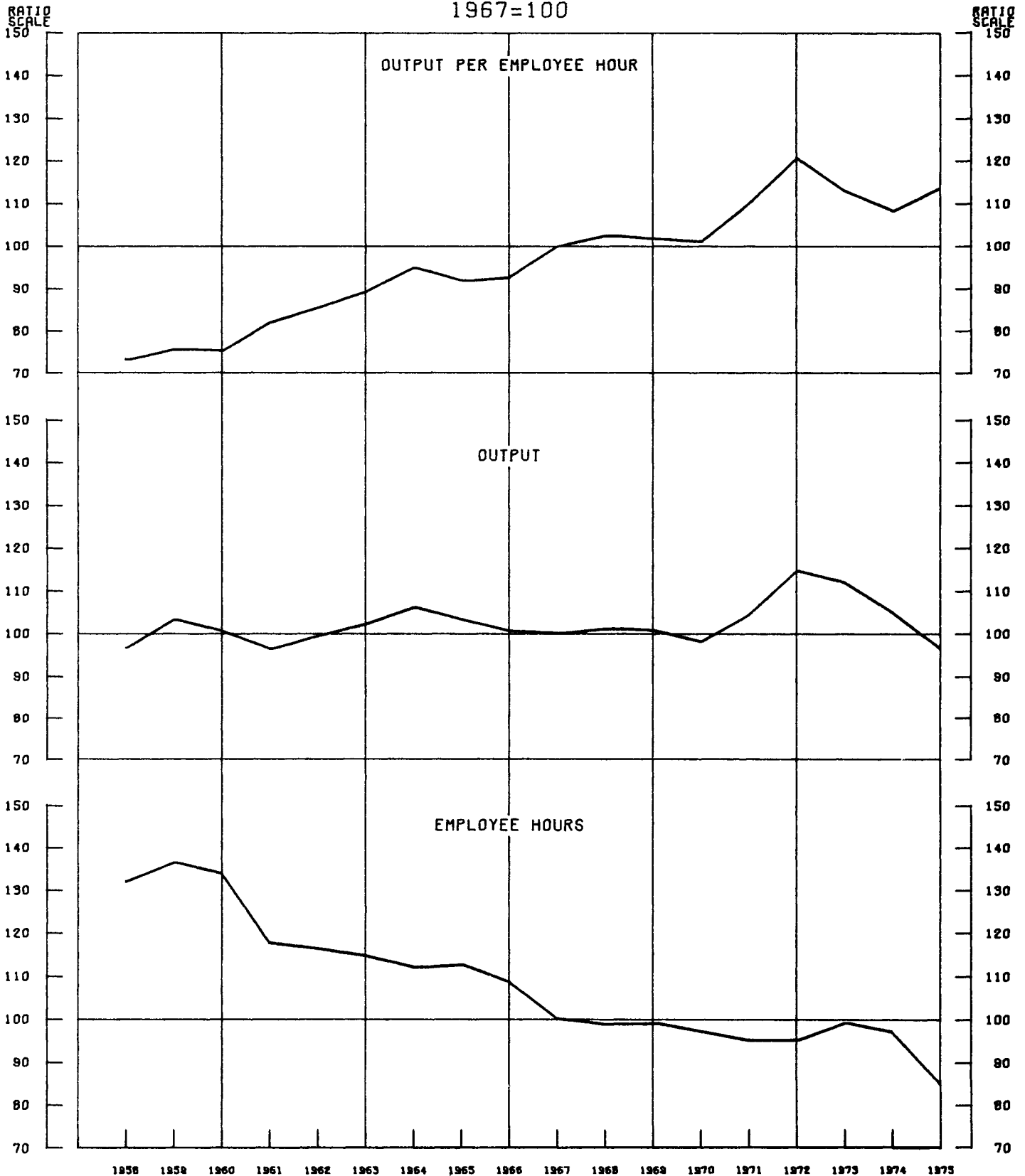
CHART 43  
 HOSIERY (SIC 2251, 2252), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

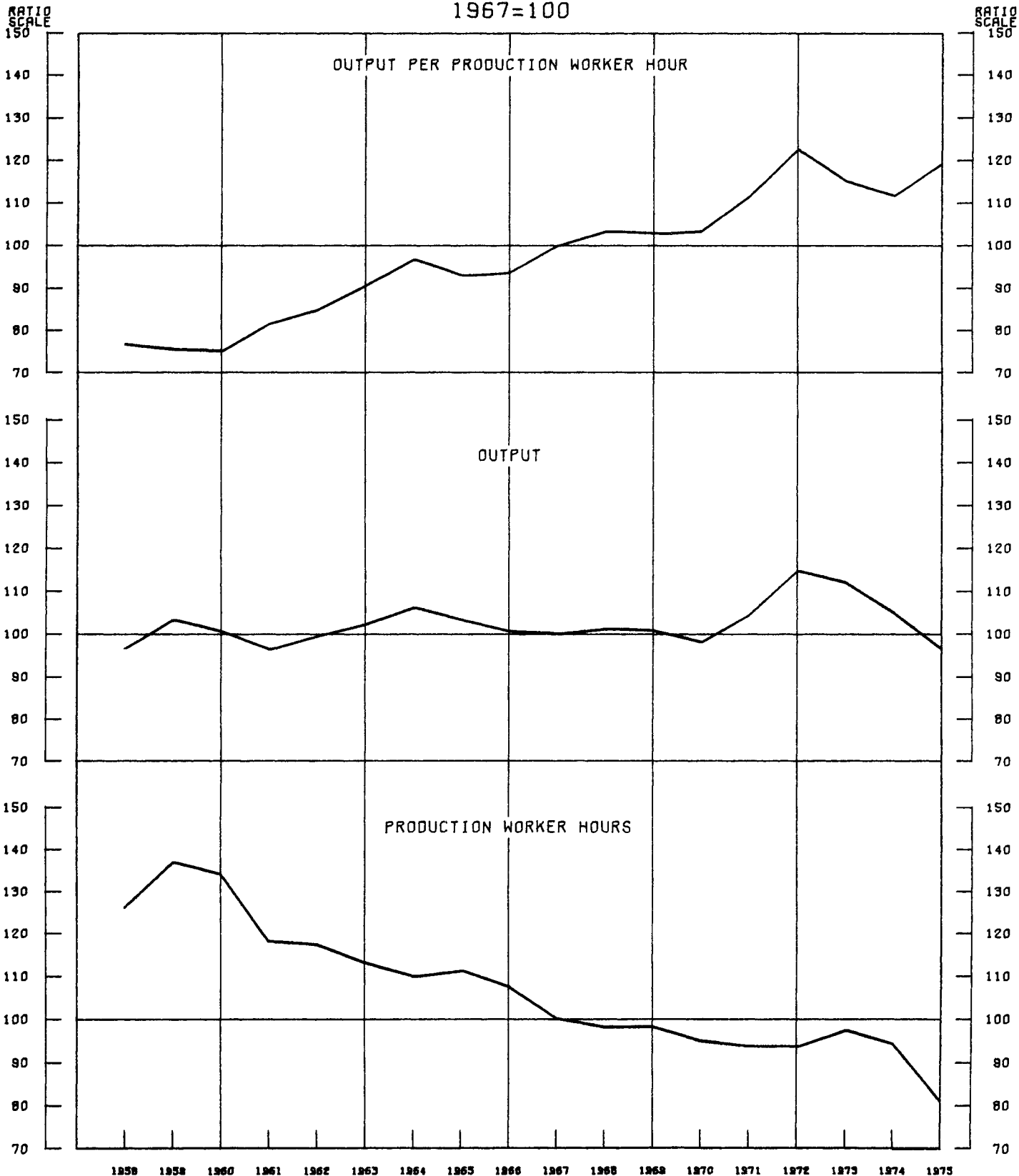


CHART 44  
 SAWMILLS AND PLANING MILLS, GENERAL (SIC 2421), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



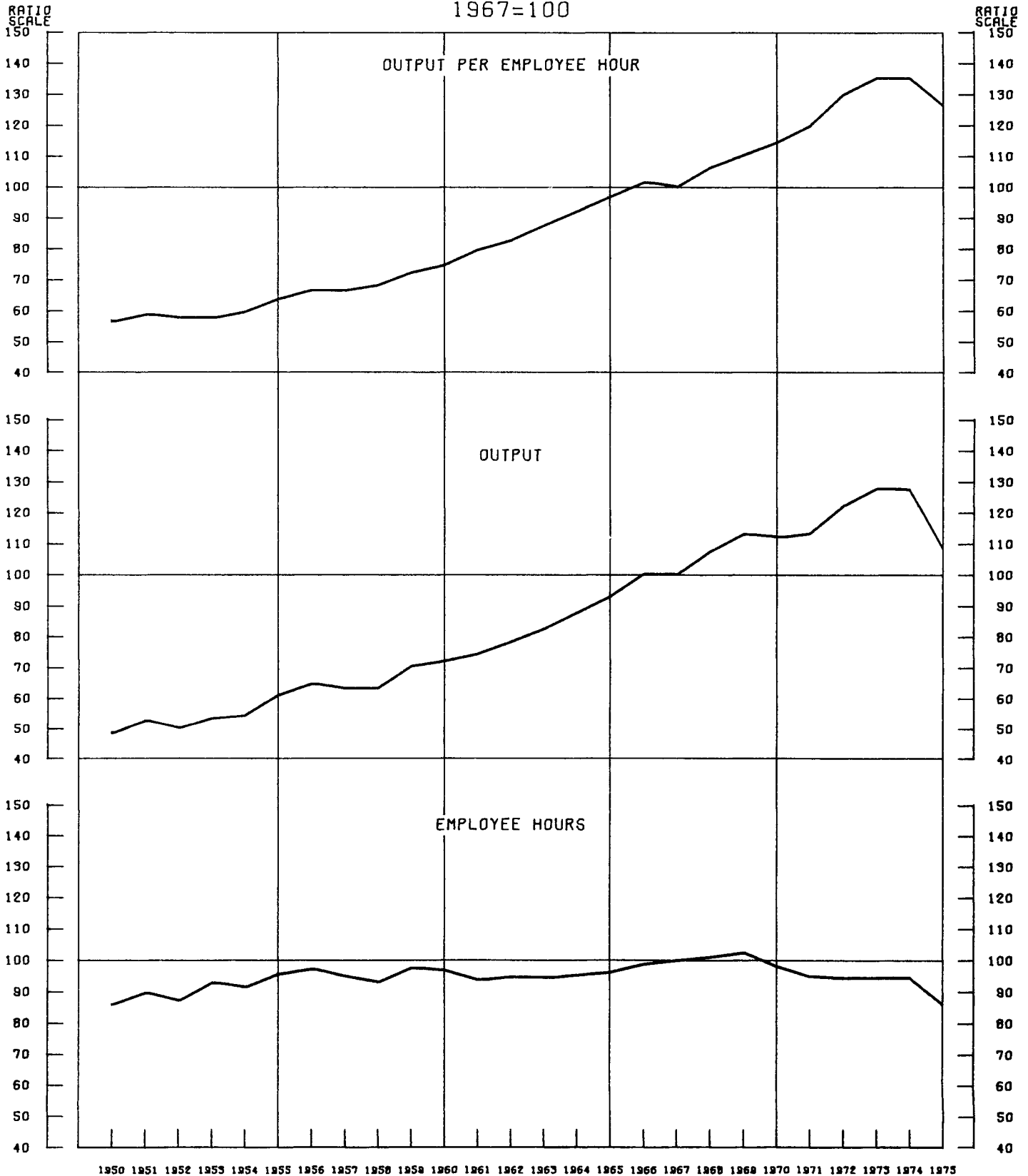
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 45  
 SAWMILLS AND PLANING MILLS, GENERAL (SIC 2421), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 46  
 PAPER, PAPERBOARD AND PULP MILLS (SIC 2611, 21, 31, 61), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 47  
 PAPER, PAPERBOARD AND PULP MILLS (SIC 2611, 21, 31, 61), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 48  
 CORRUGATED AND SOLID FIBER BOXES (SIC 2653), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 49  
 CORRUGATED AND SOLID FIBER BOXES (SIC 2653), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



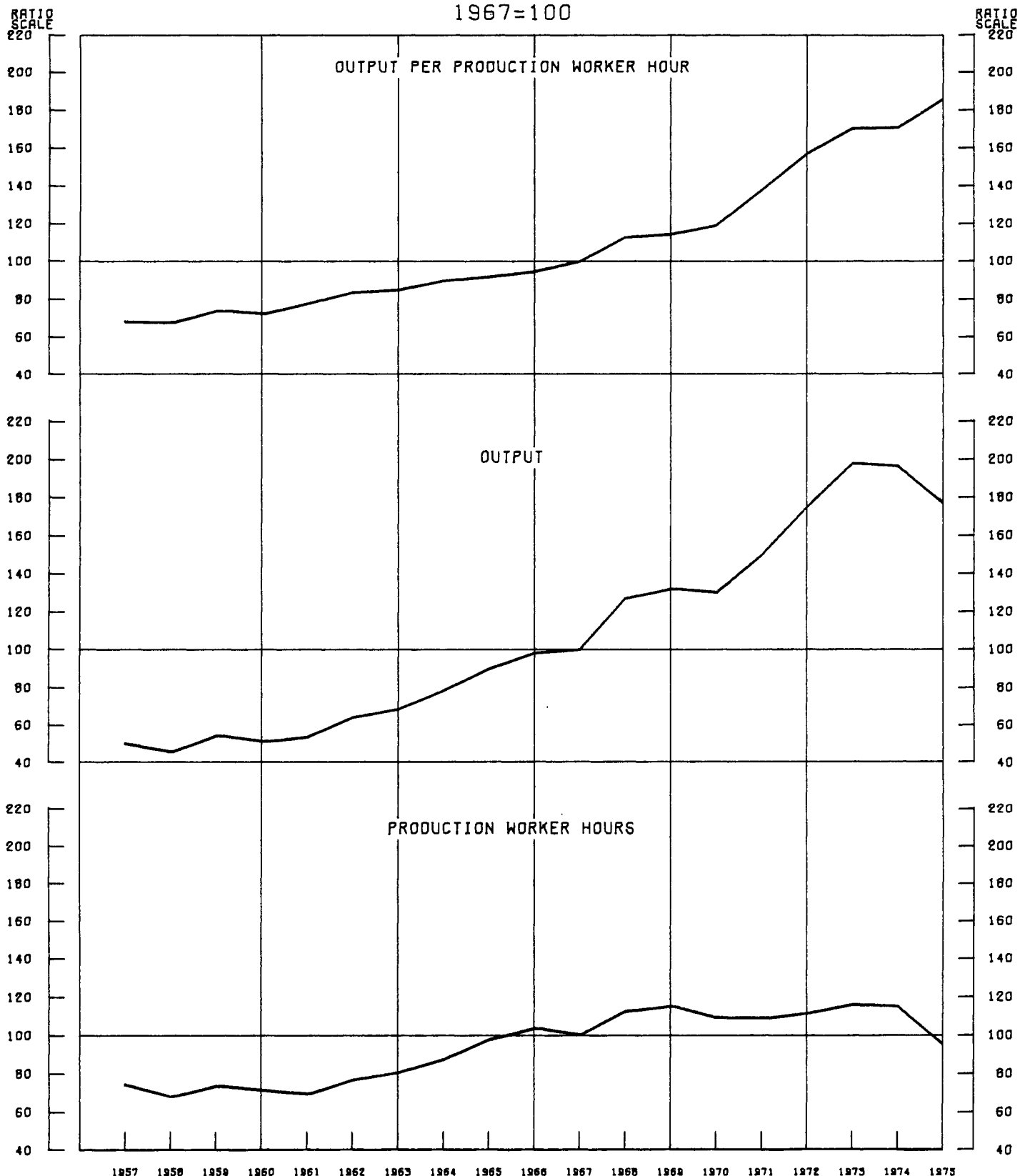
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 50  
 SYNTHETIC FIBERS (SIC 2823, 2824), 1957-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

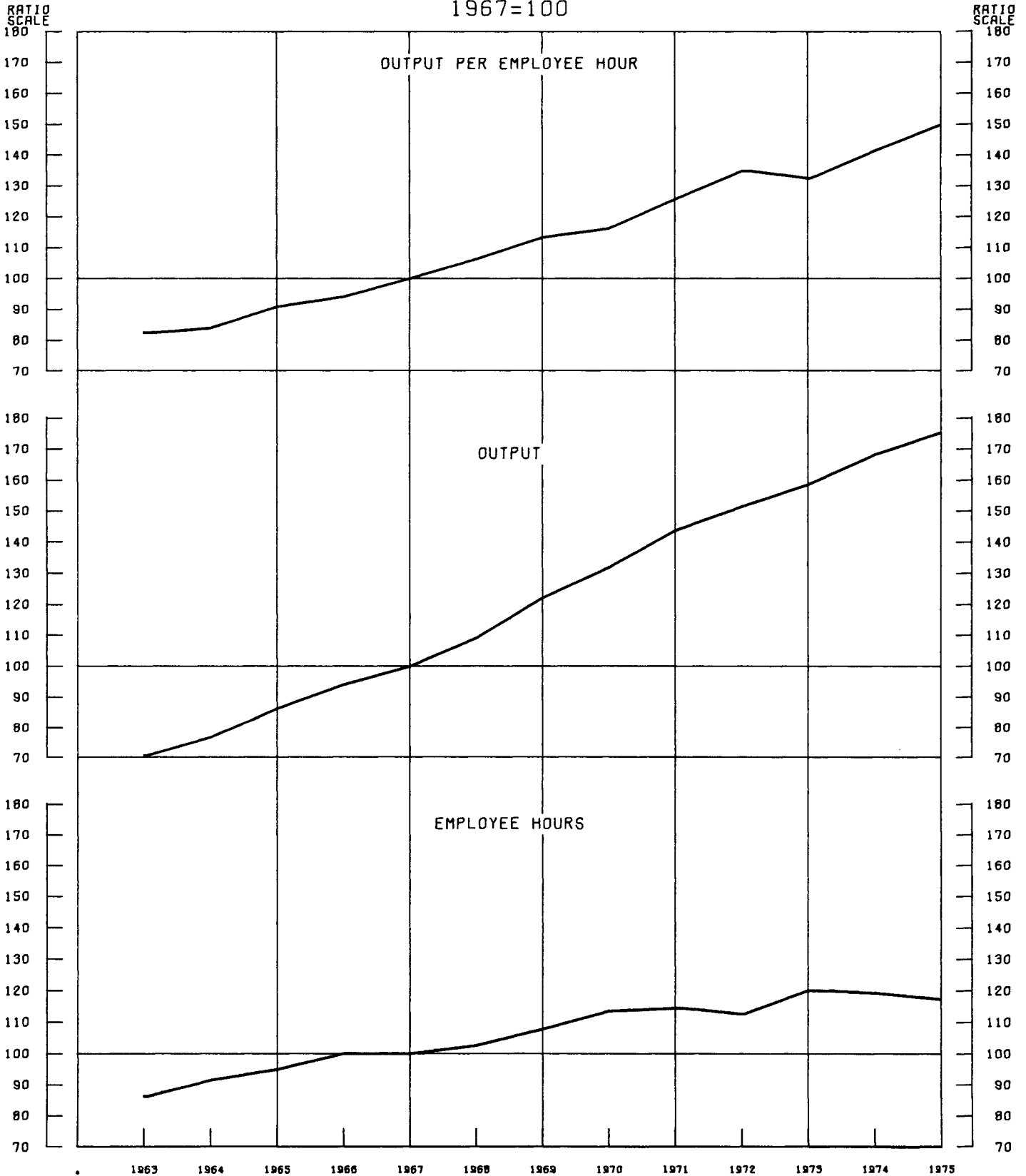
CHART 51  
 SYNTHETIC FIBERS (SIC 2823, 2824), 1957-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

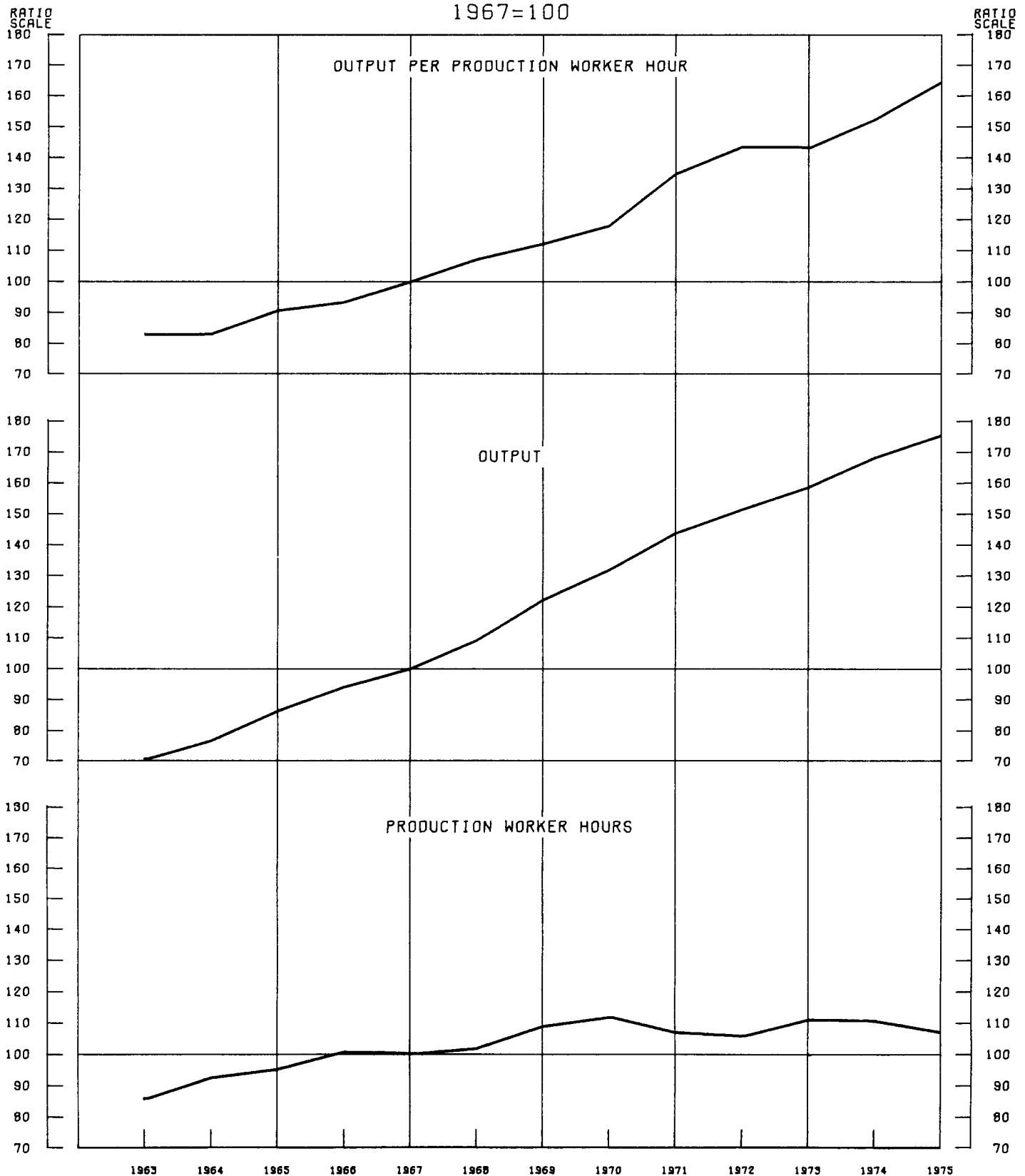


CHART 52  
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



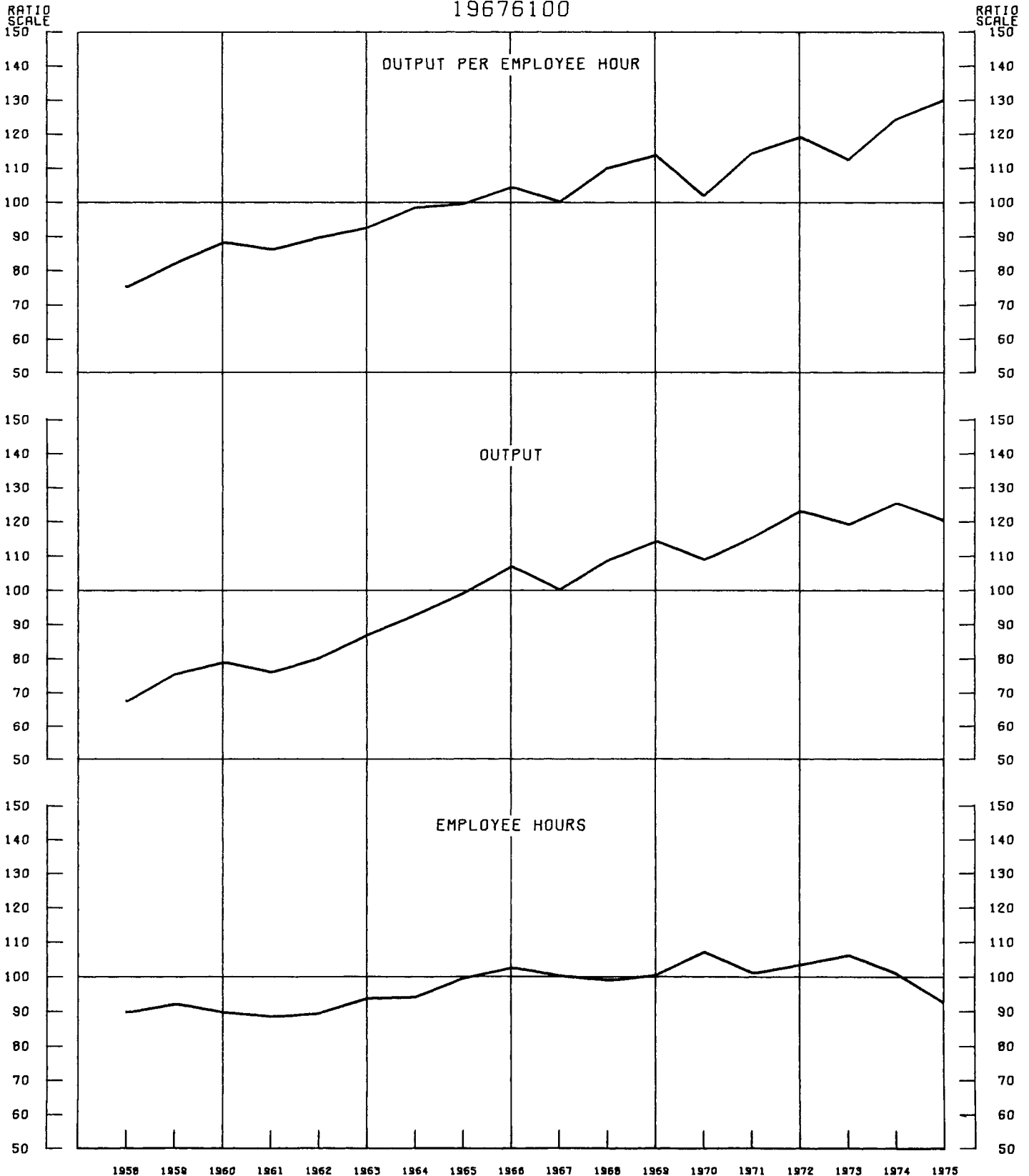
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 53  
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



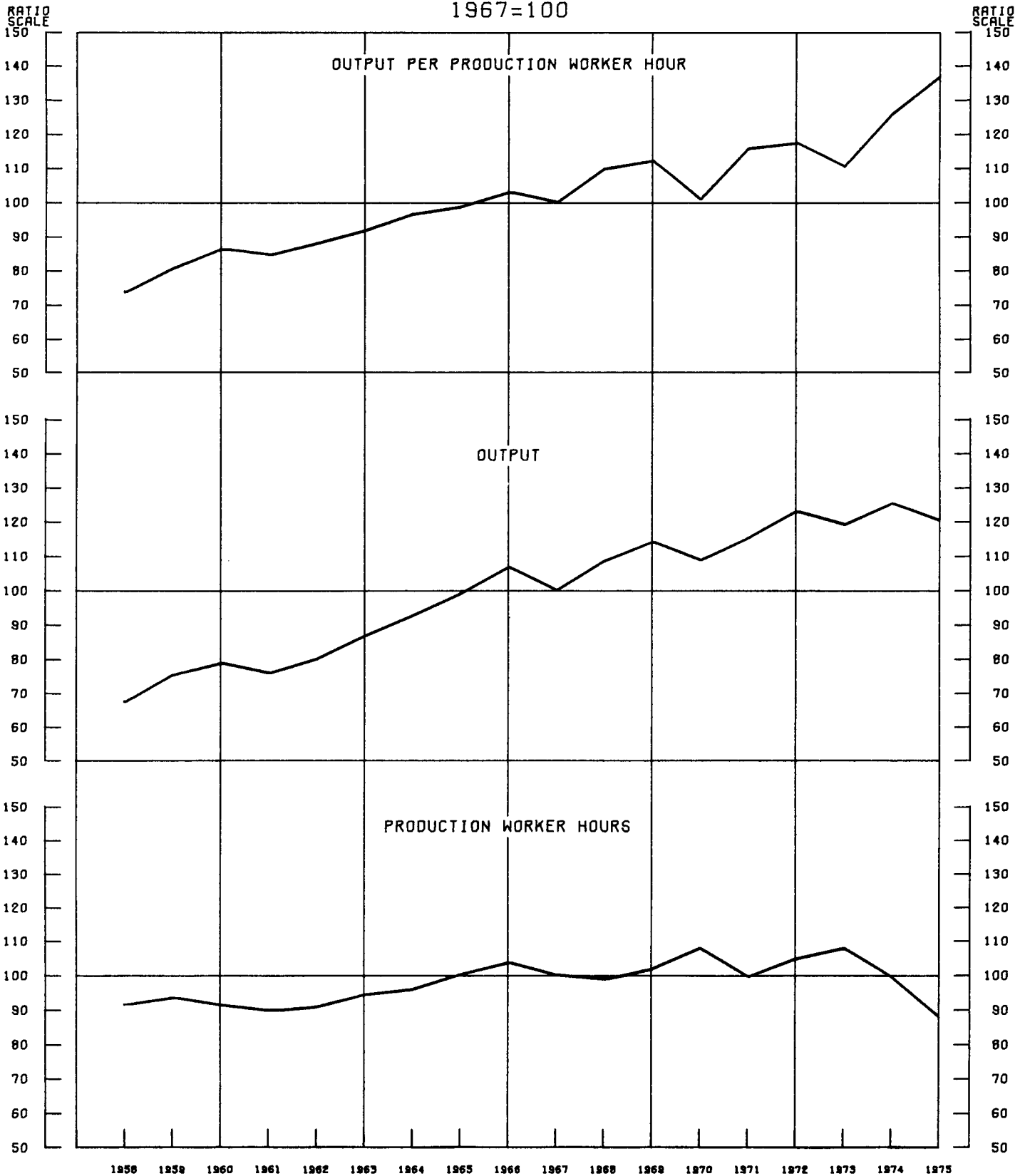
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 54  
 PAINTS AND ALLIED PRODUCTS (SIC 2851). 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 19676100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 55  
 PAINTS AND ALLIED PRODUCTS (SIC 2851), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



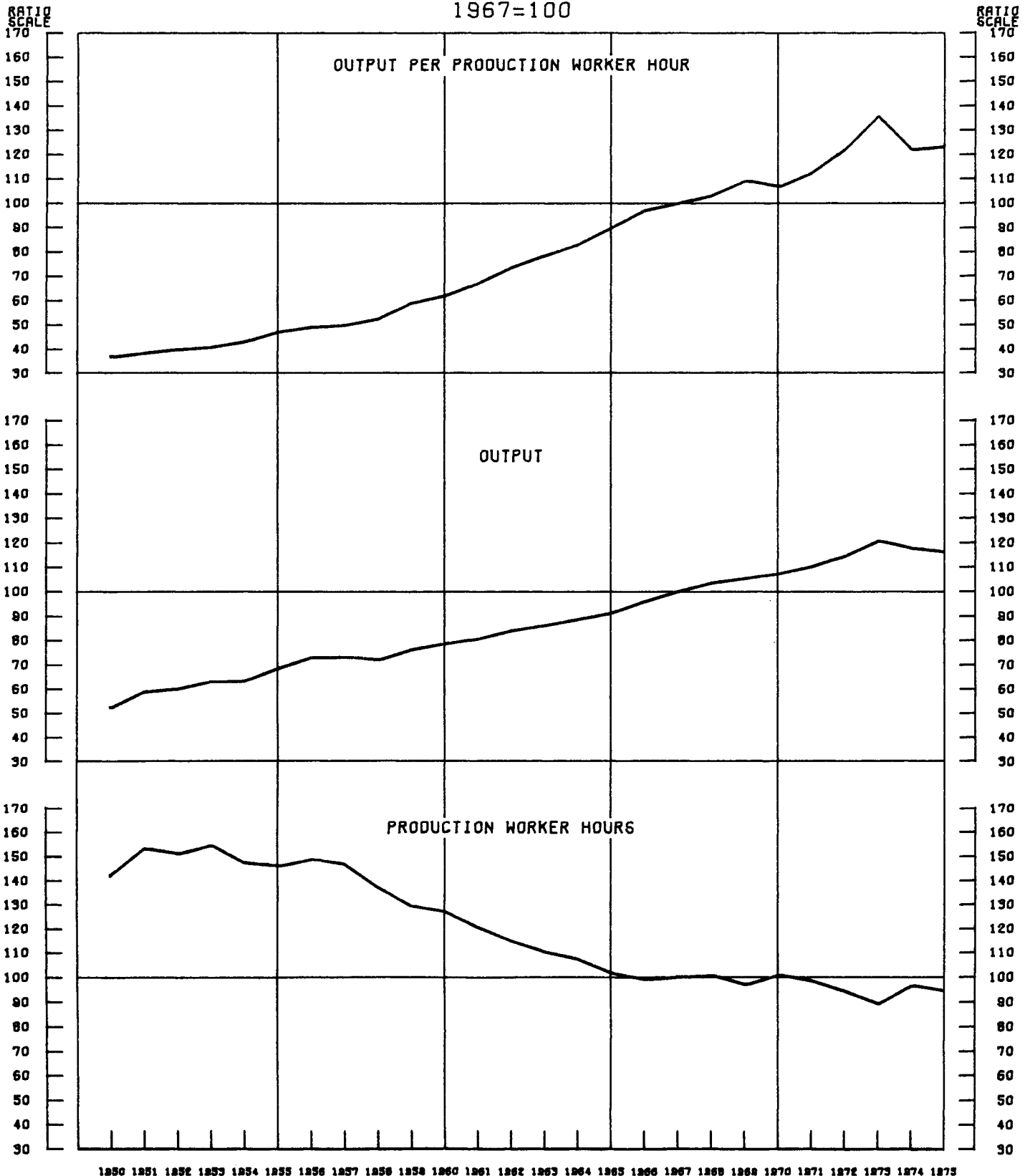
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 56  
 PETROLEUM REFINING (SIC 2911), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 57  
 PETROLEUM REFINING (SIC 2911), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 58  
 TIRES AND INNER TUBES (SIC 3011), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

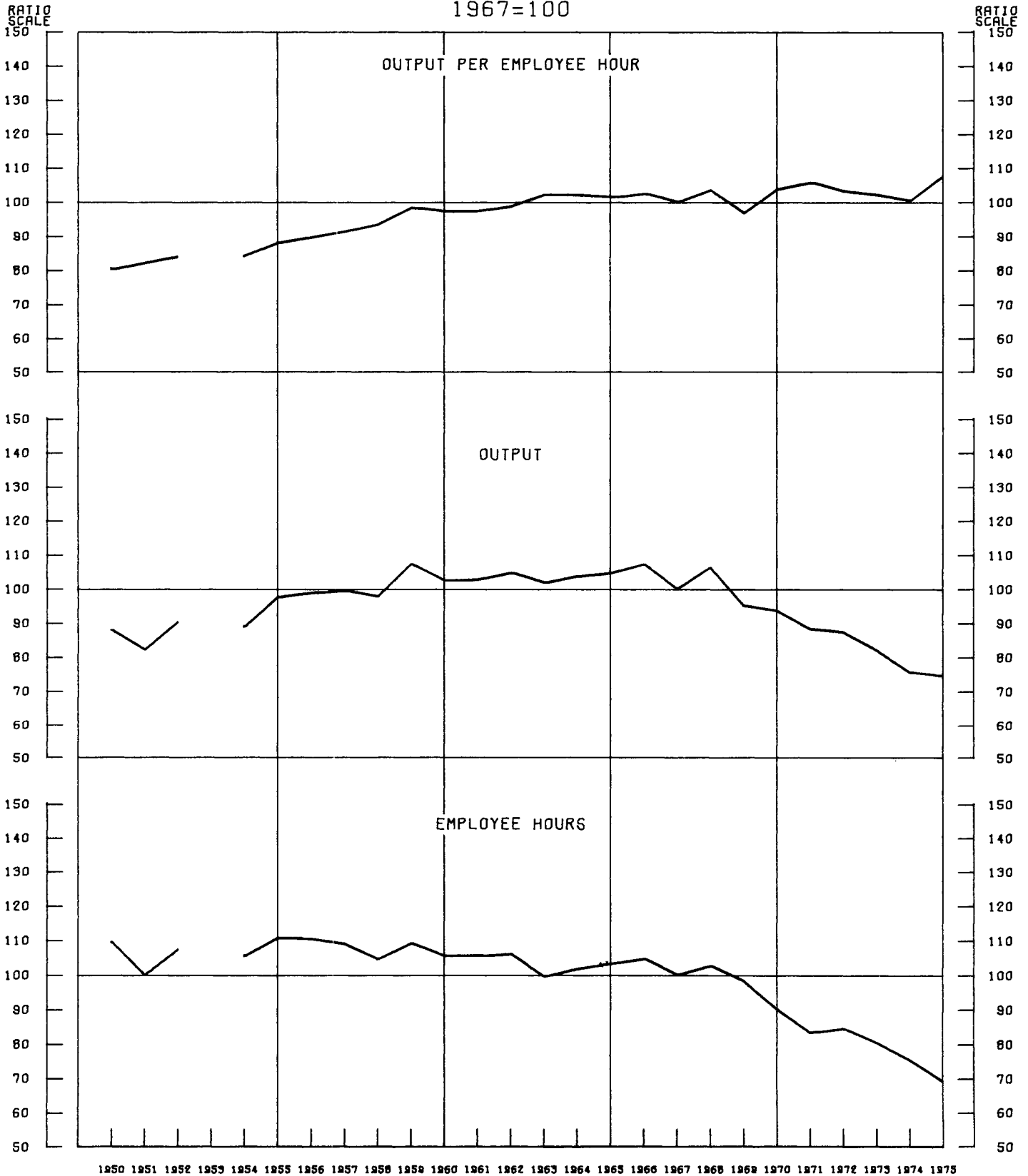
CHART 59  
 TIRES AND INNER TUBES (SIC 3011), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.



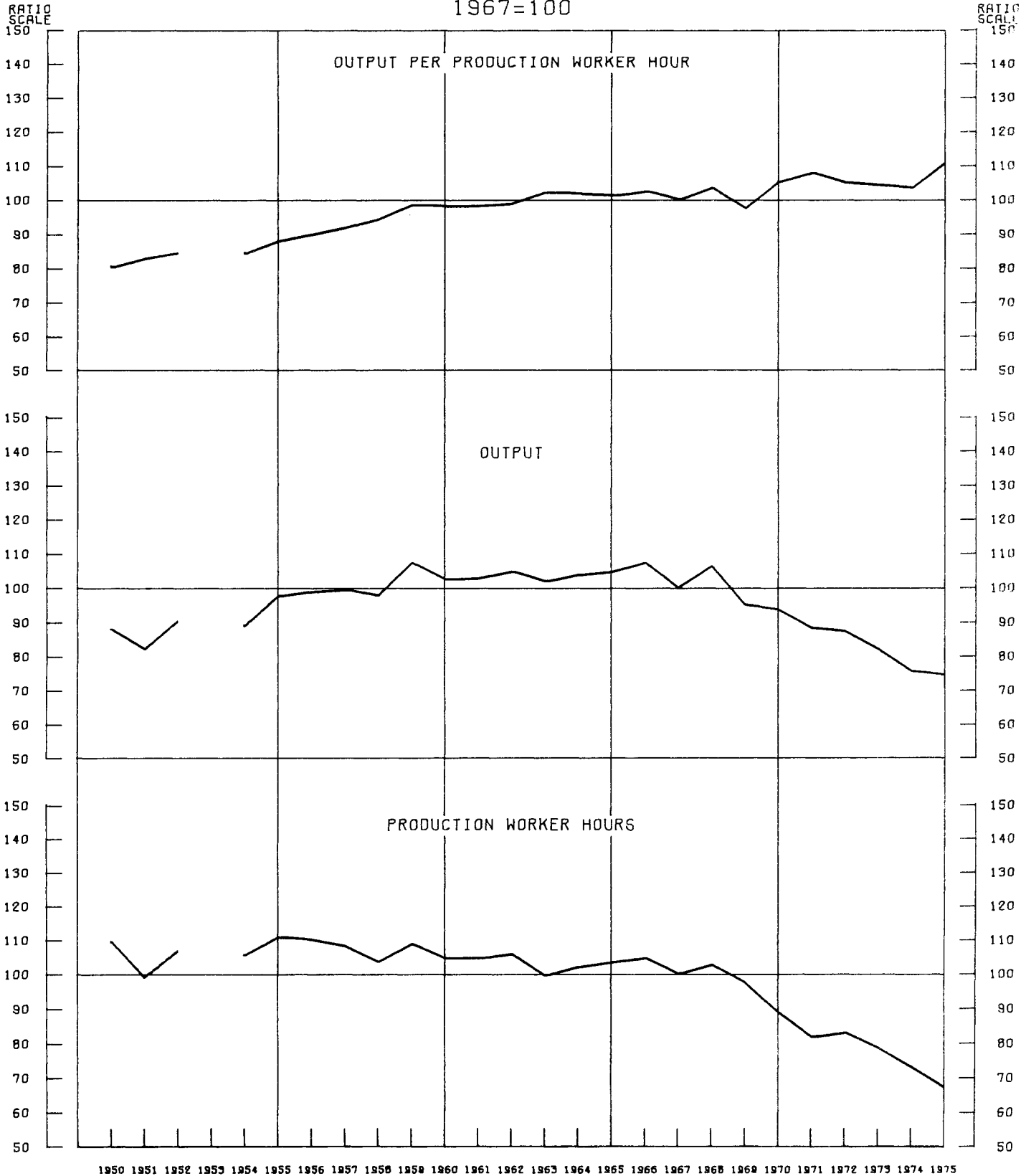
CHART 60  
 FOOTWEAR (SIC 314), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



NOTE: Where series are not continuous, data are not available.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics.

CHART 61  
 FOOTWEAR (SIC 314), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



NOTE: Where series are not continuous, data are not available.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics.

CHART 62  
 GLASS CONTAINERS (SIC 3221), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



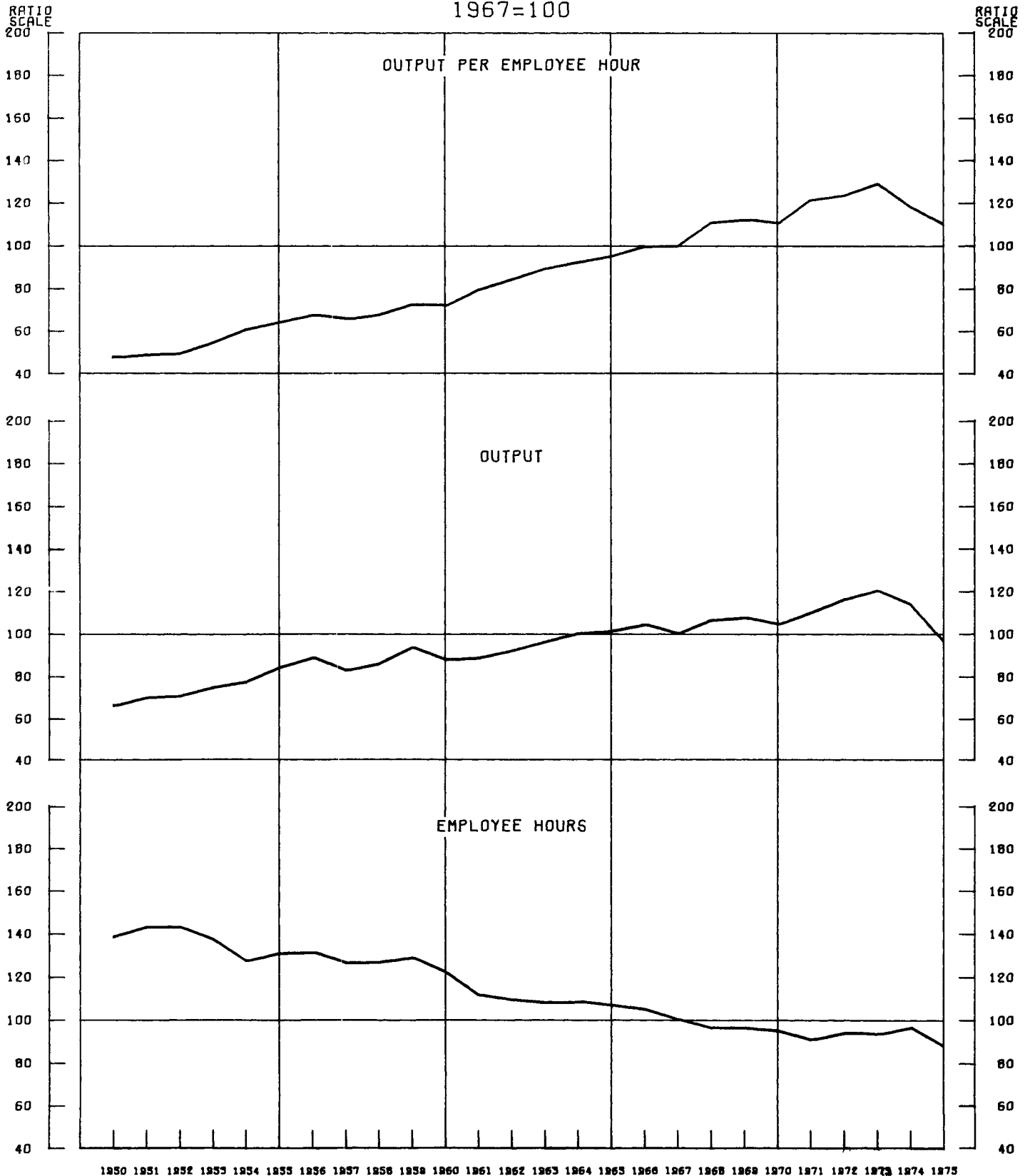
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 63  
 GLASS CONTAINERS (SIC 3221), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



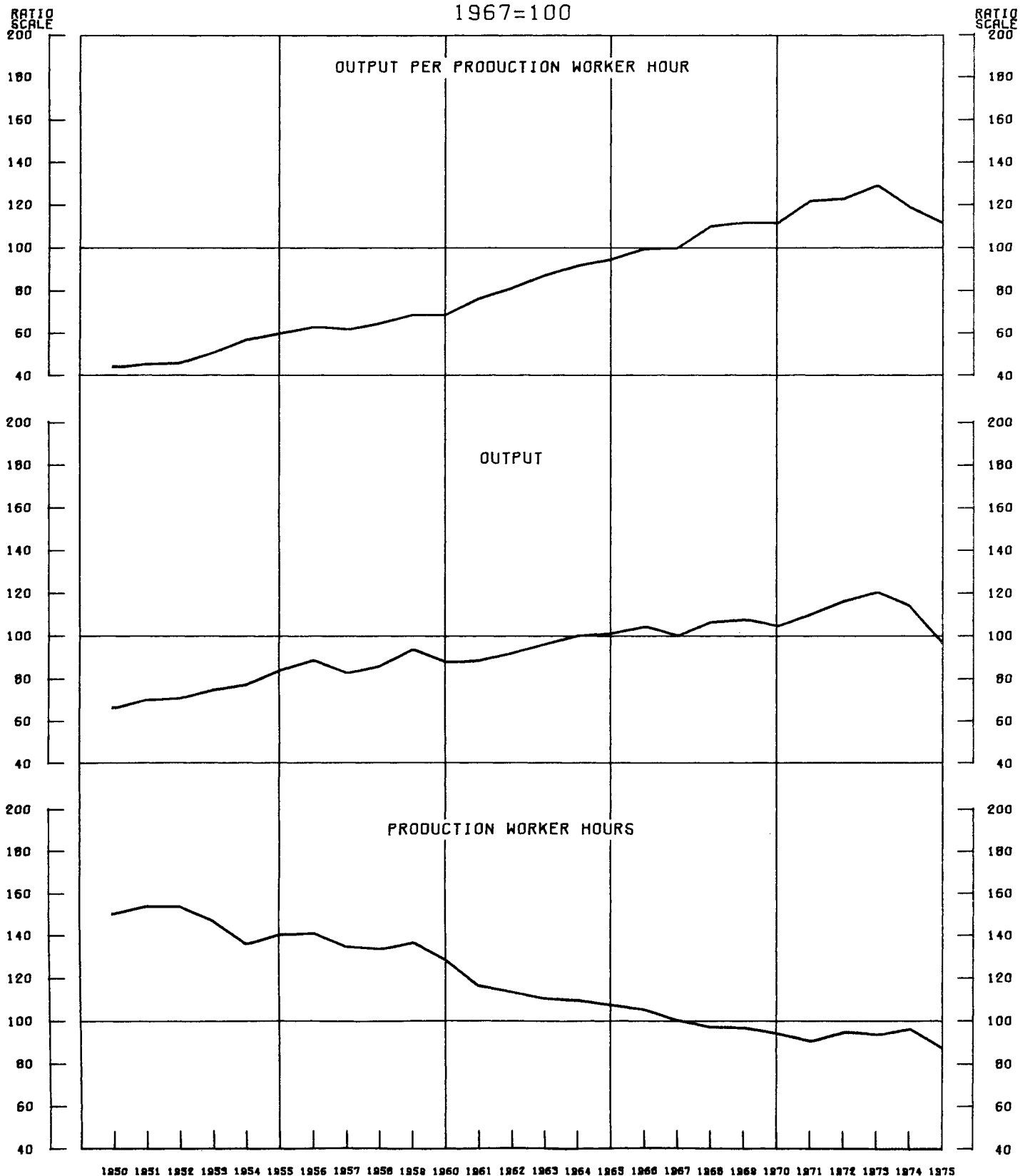
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 64  
 HYDRAULIC CEMENT (SIC 3241), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



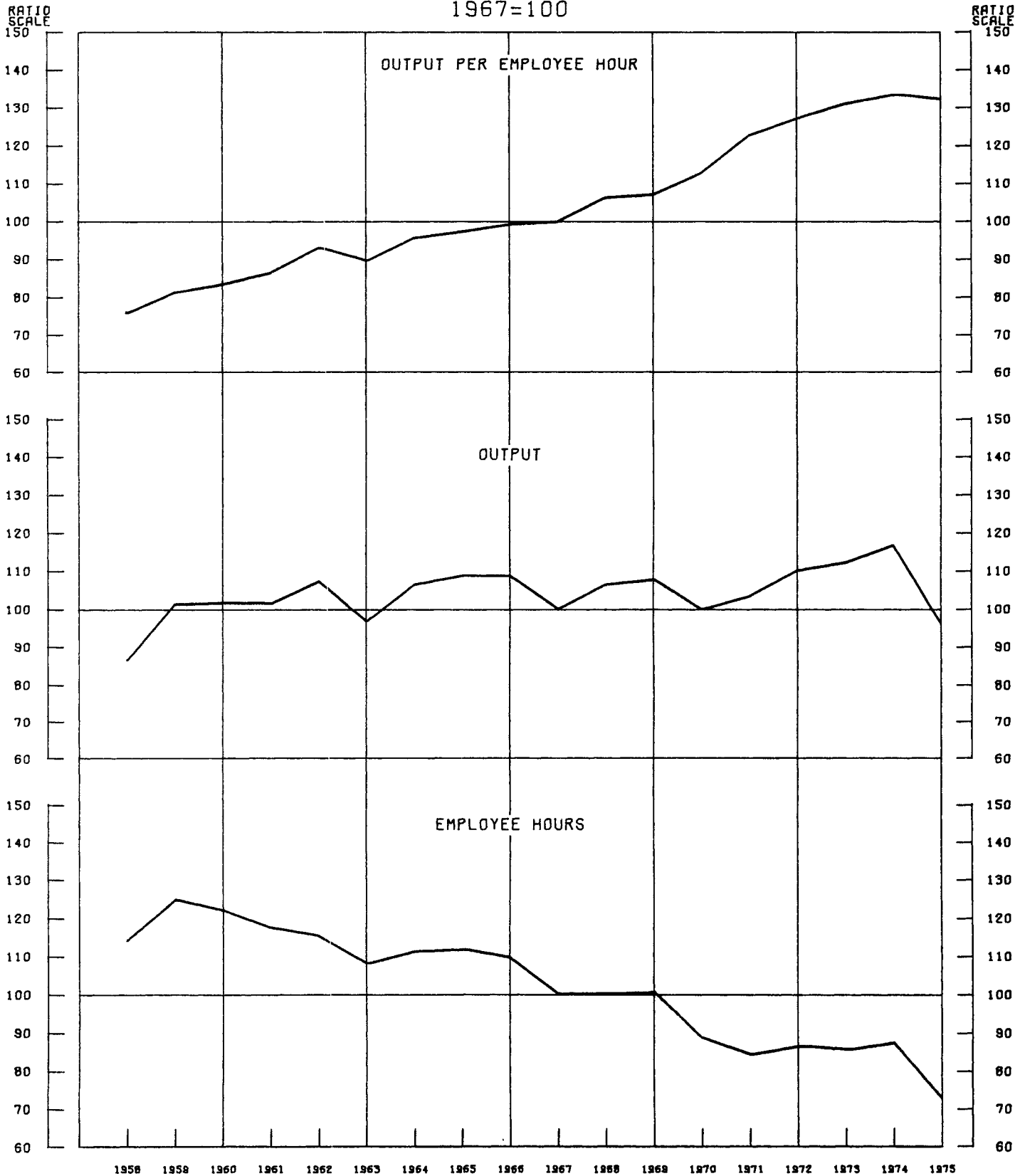
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 65  
 HYDRAULIC CEMENT (SIC 3241), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



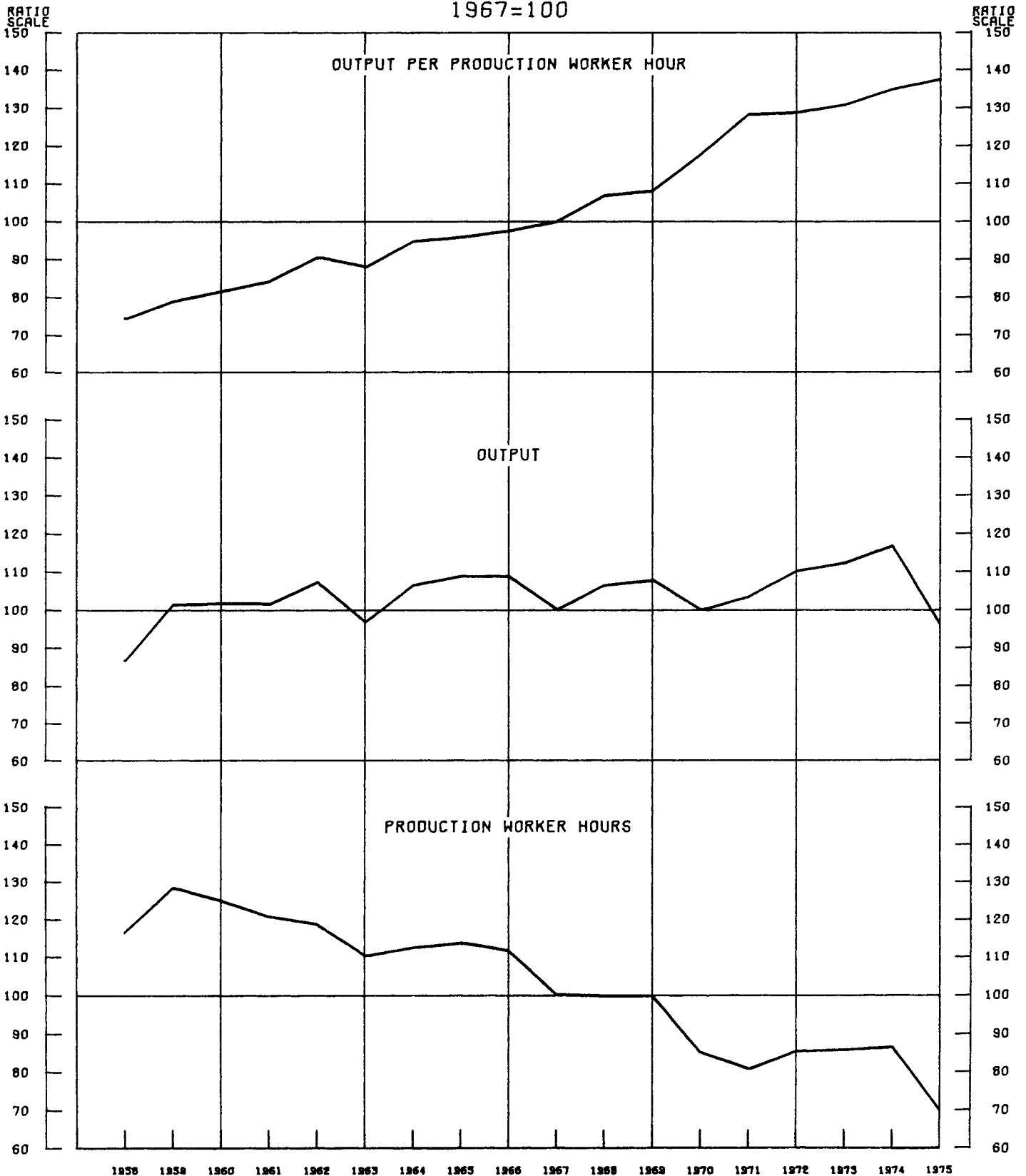
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 66  
 STRUCTURAL CLAY PRODUCTS (SIC 325), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

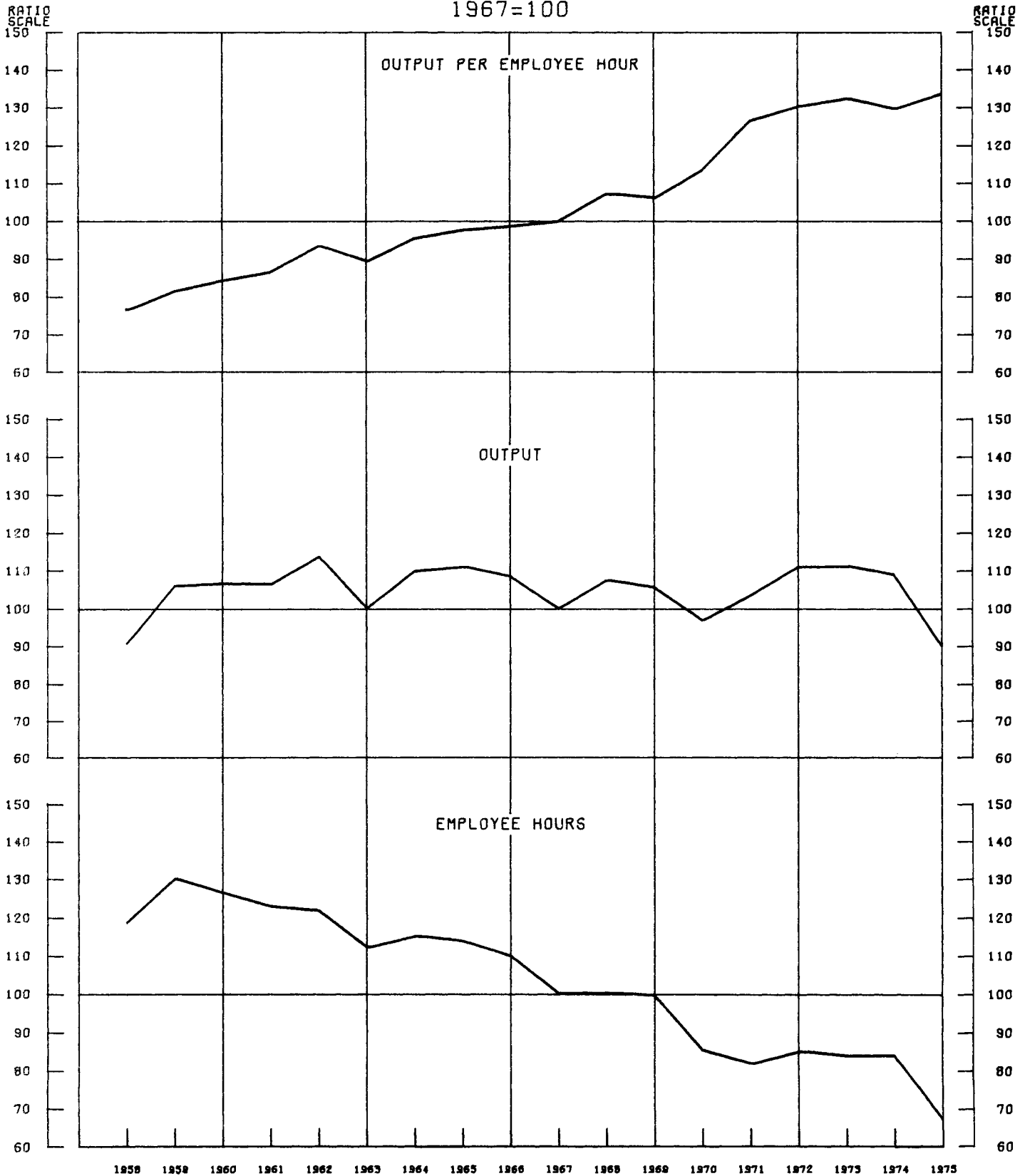
CHART 67  
 STRUCTURAL CLAY PRODUCTS (SIC 325), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

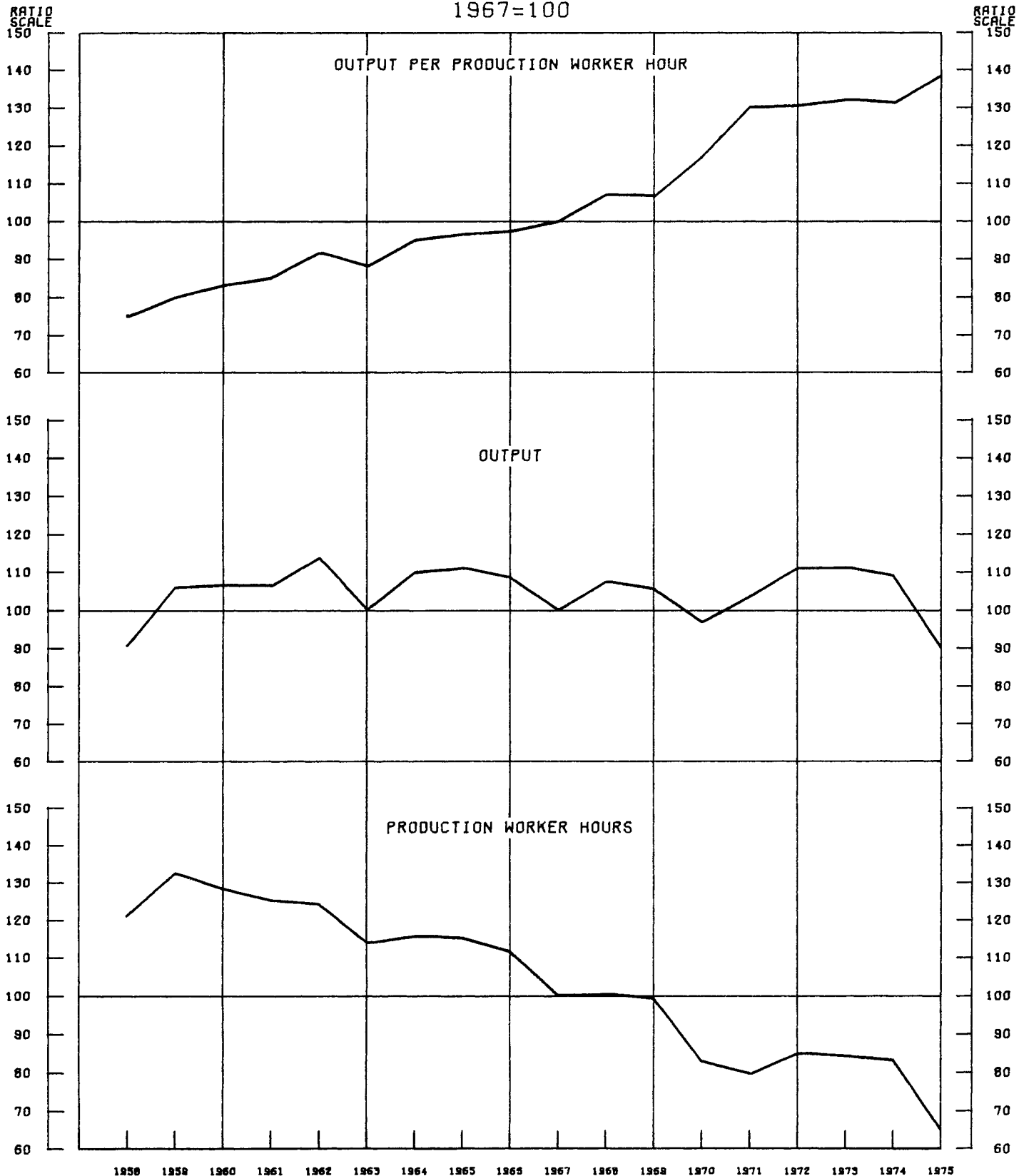


CHART 68  
 CLAY CONSTRUCTION PRODUCTS (SIC 3251, 3253, 3259), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



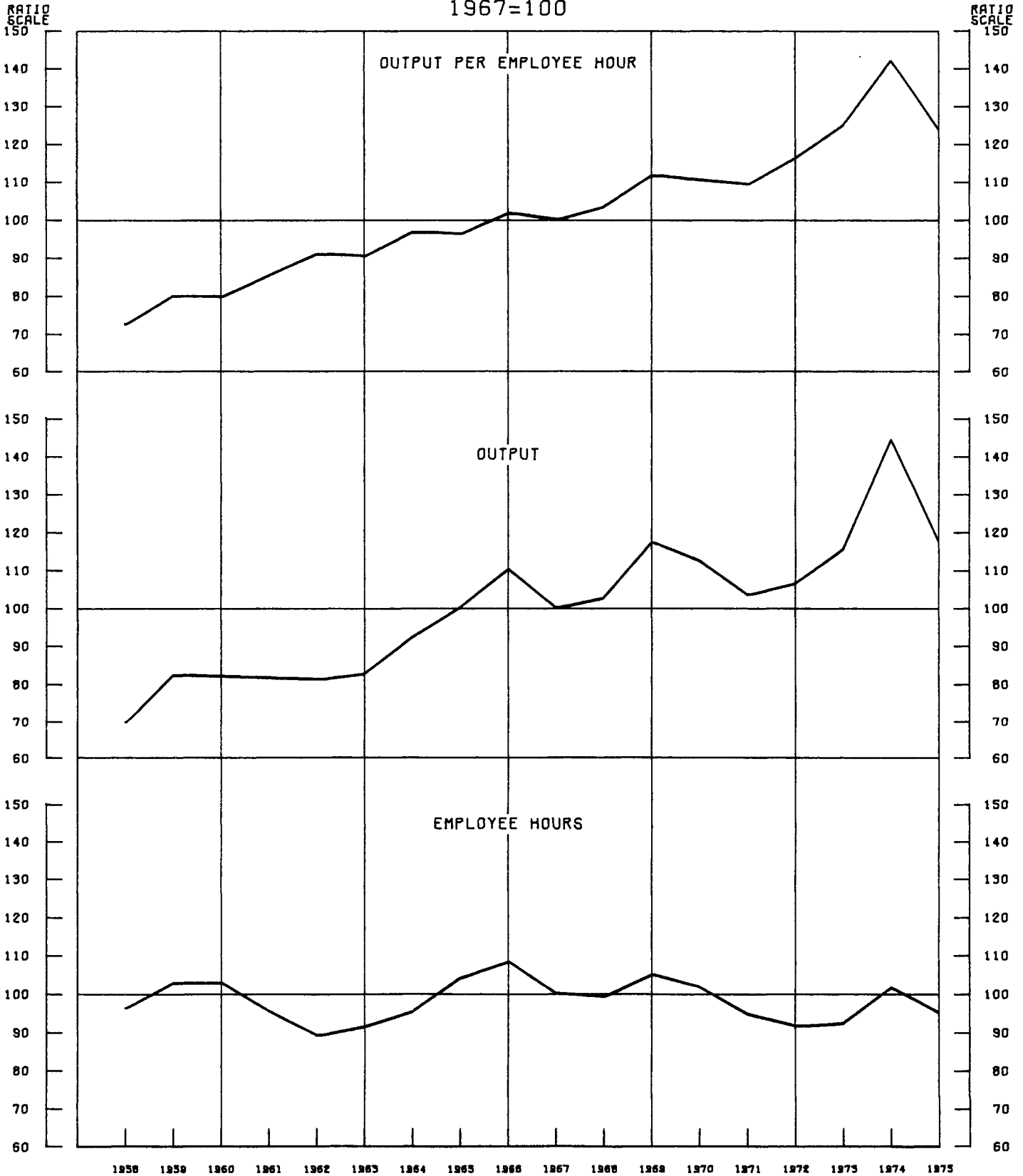
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 69  
 CLAY CONSTRUCTION PRODUCTS (SIC 3251, 3253, 3259), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



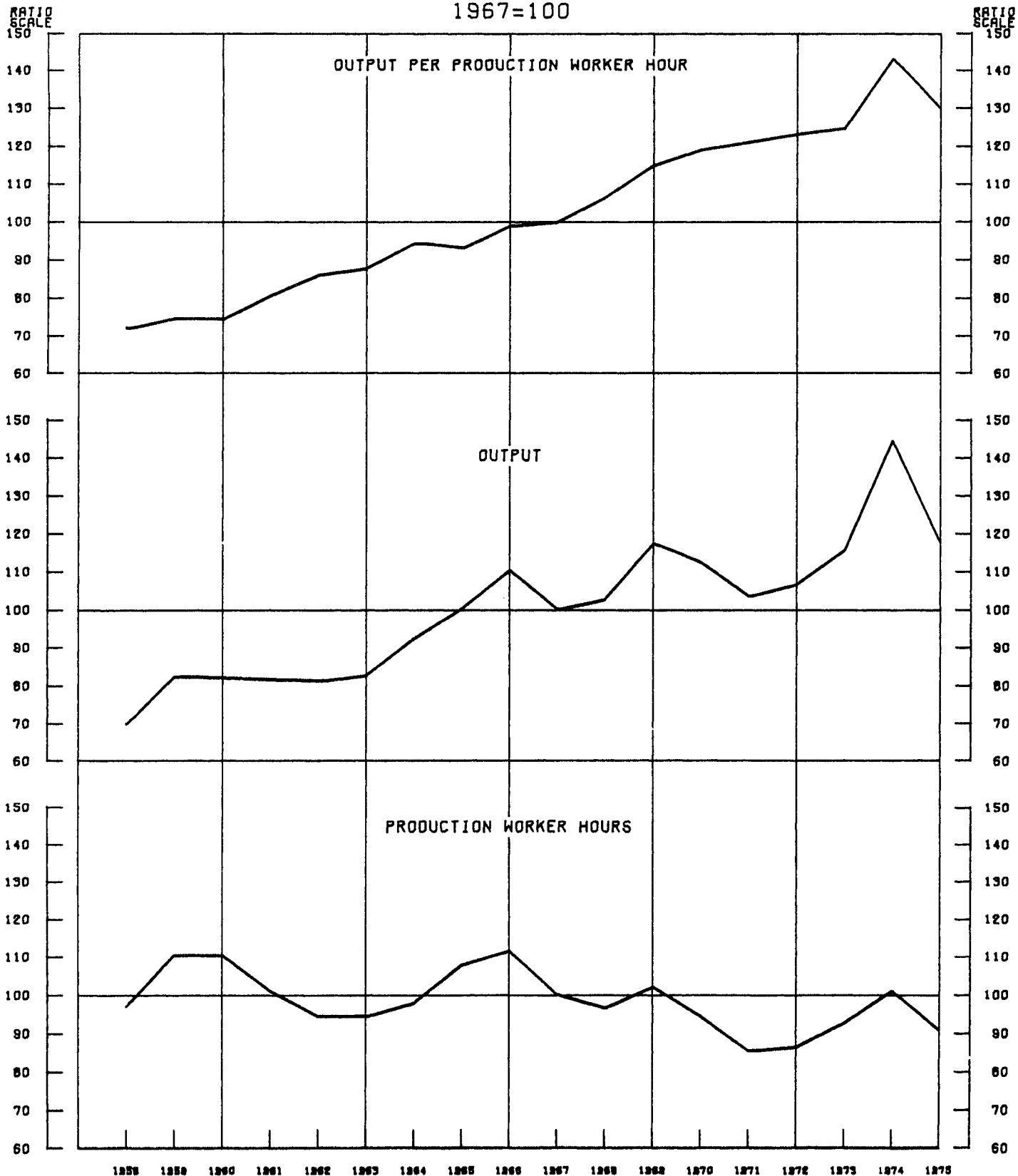
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 70  
 CLAY REFRACTORIES (SIC 3255). 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 71  
 CLAY REFRACTORIES (SIC 3255), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 72  
 CONCRETE PRODUCTS (SIC 3271, 3272), 1950-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



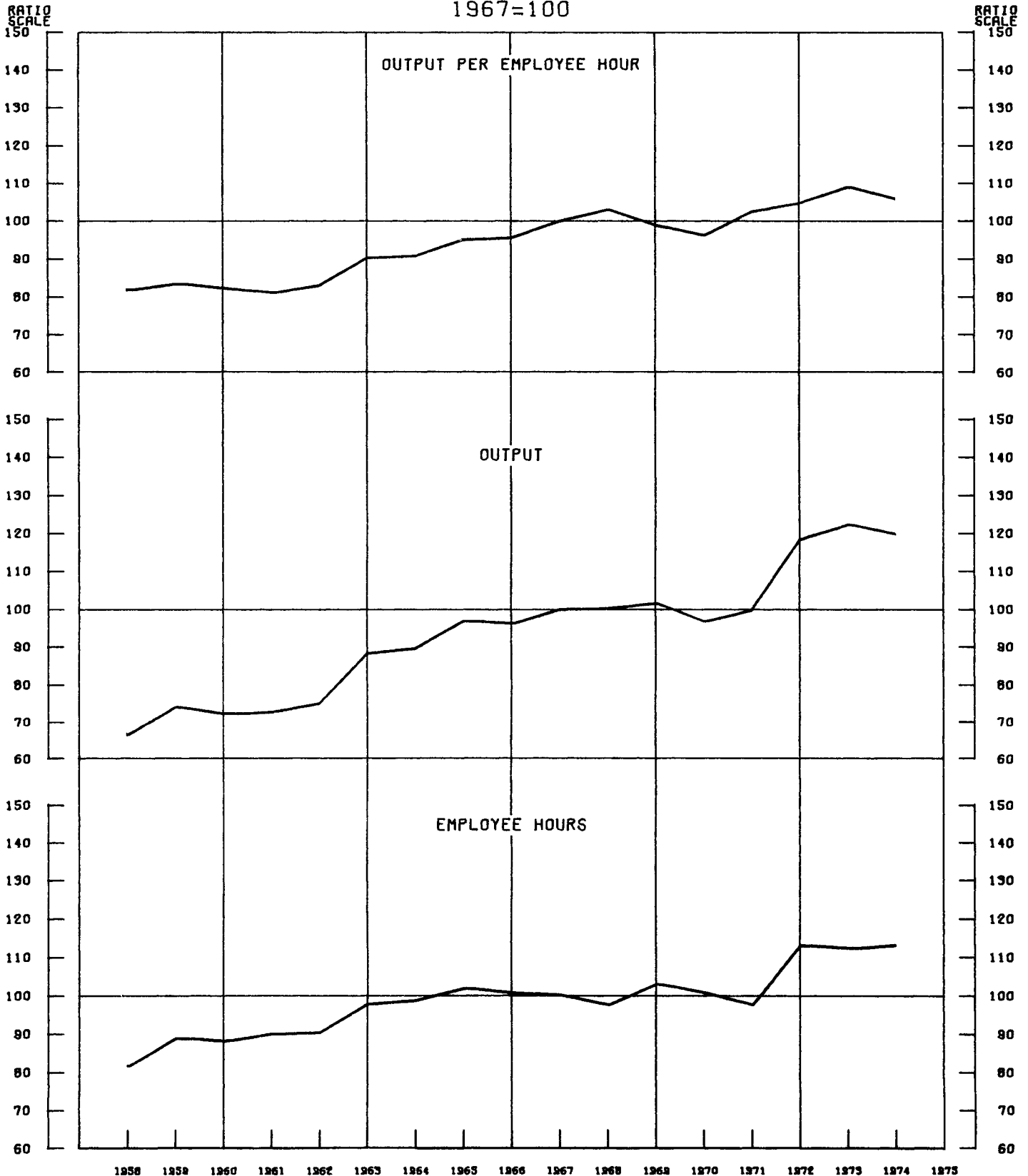
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 73  
 CONCRETE PRODUCTS (SIC 3271, 3272), 1950-74  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



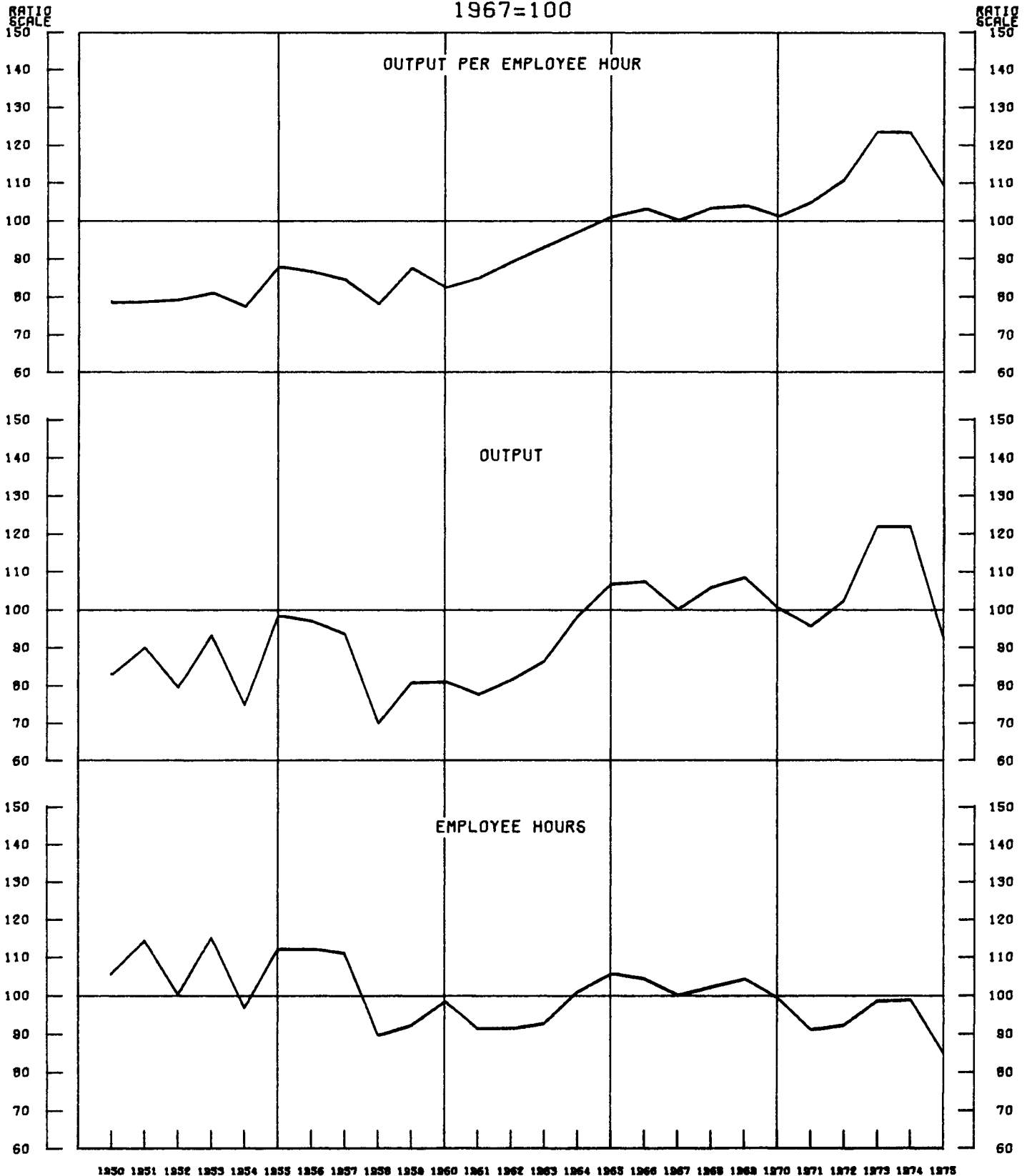
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 74  
 READY-MIXED CONCRETE (SIC 3273), 1958-74  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

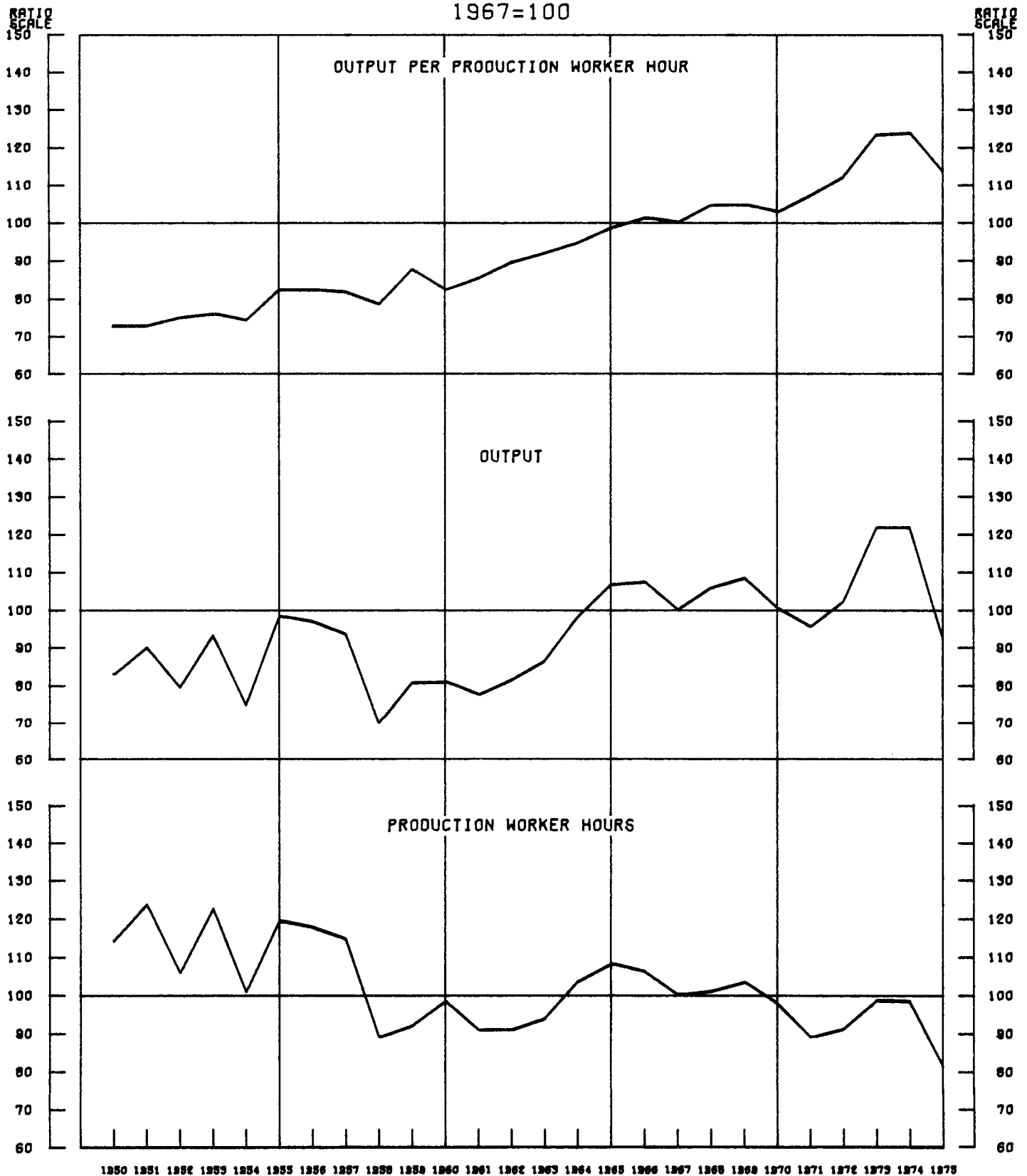
CHART 75  
 STEEL (SIC 331), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

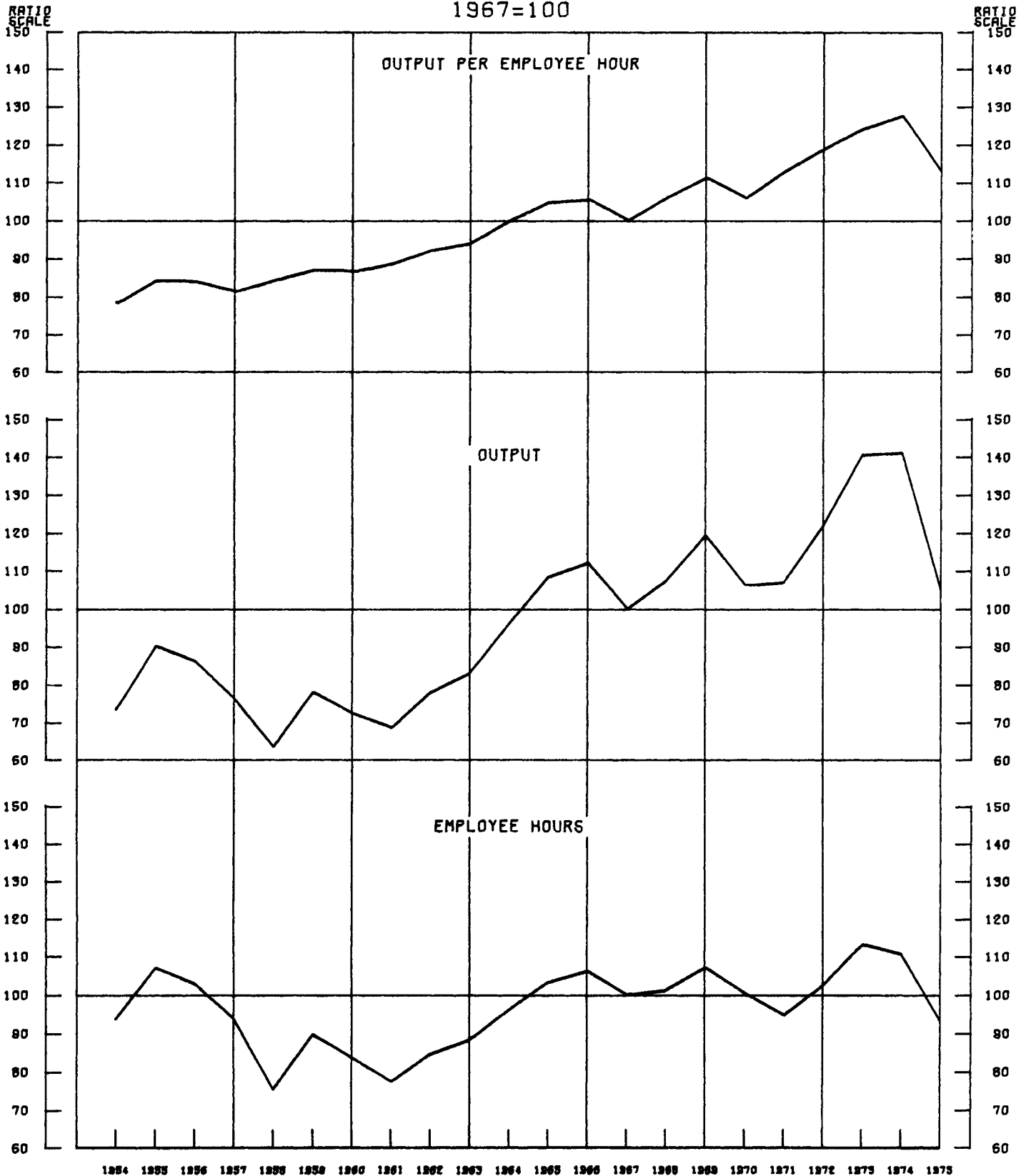


CHART 76  
 STEEL (SIC 331), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



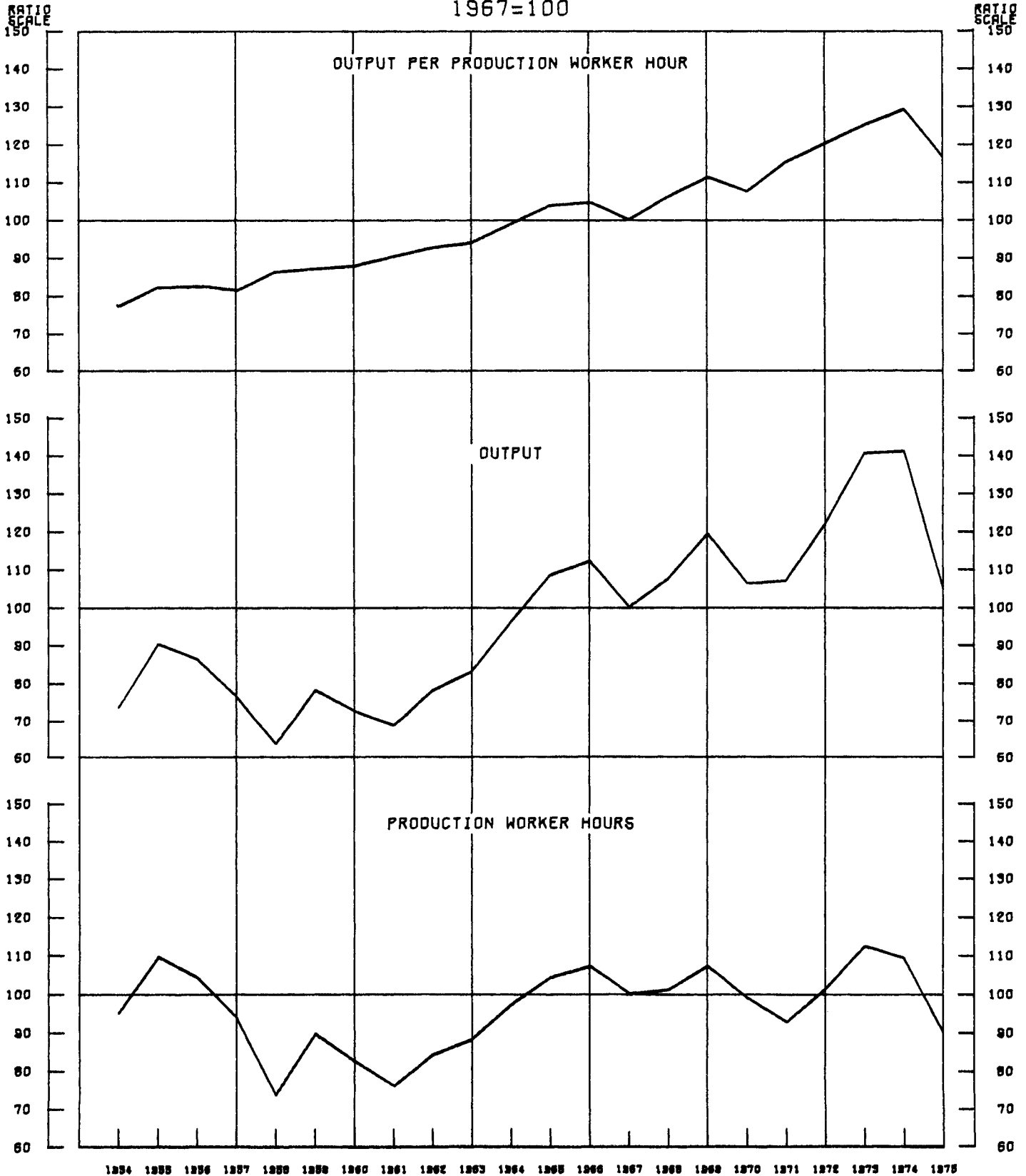
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 77  
 GRAY IRON FOUNDRIES (SIC 3321), 1954-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



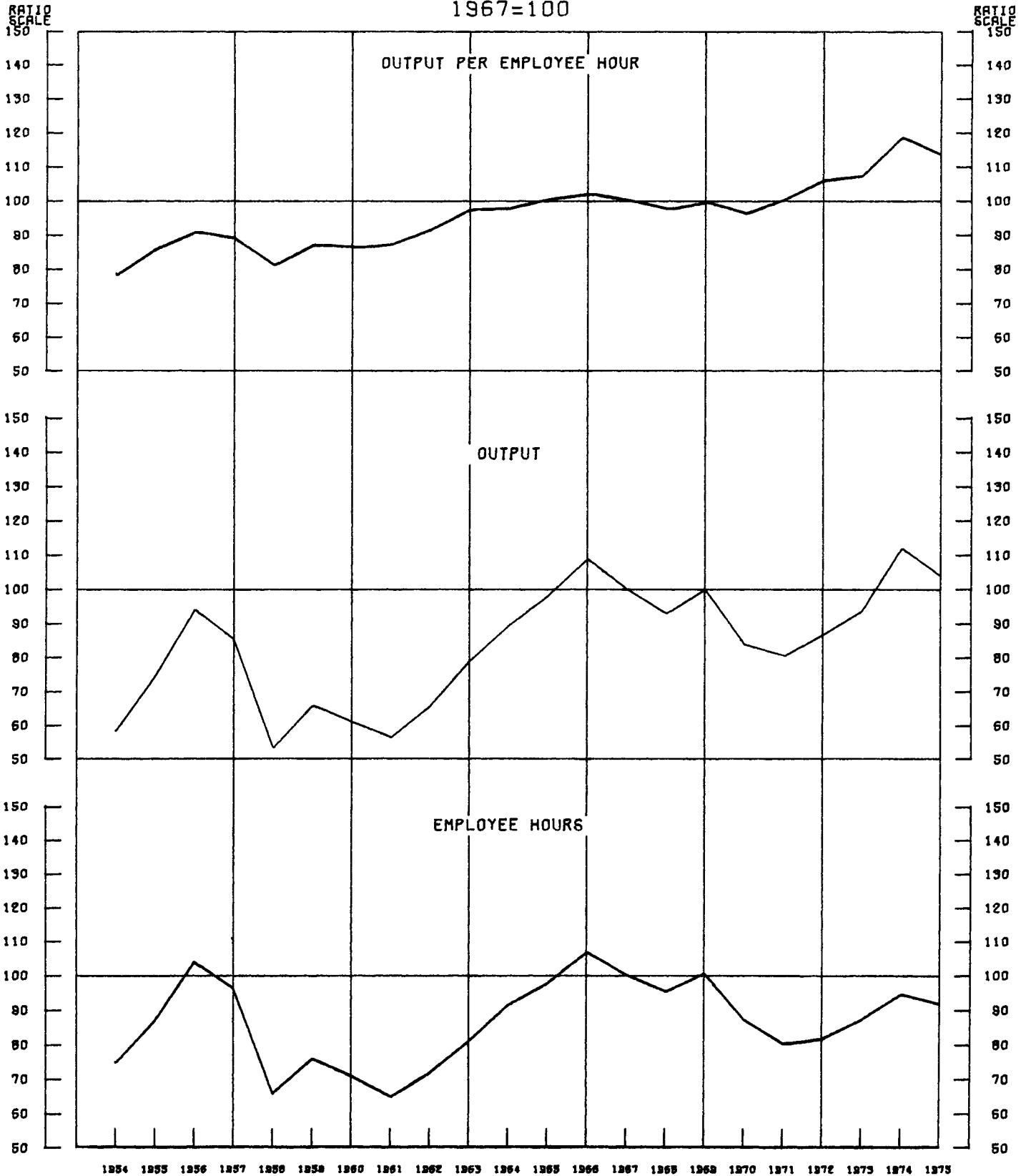
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 78  
 GRAY IRON FOUNDRIES (SIC 3321), 1954-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



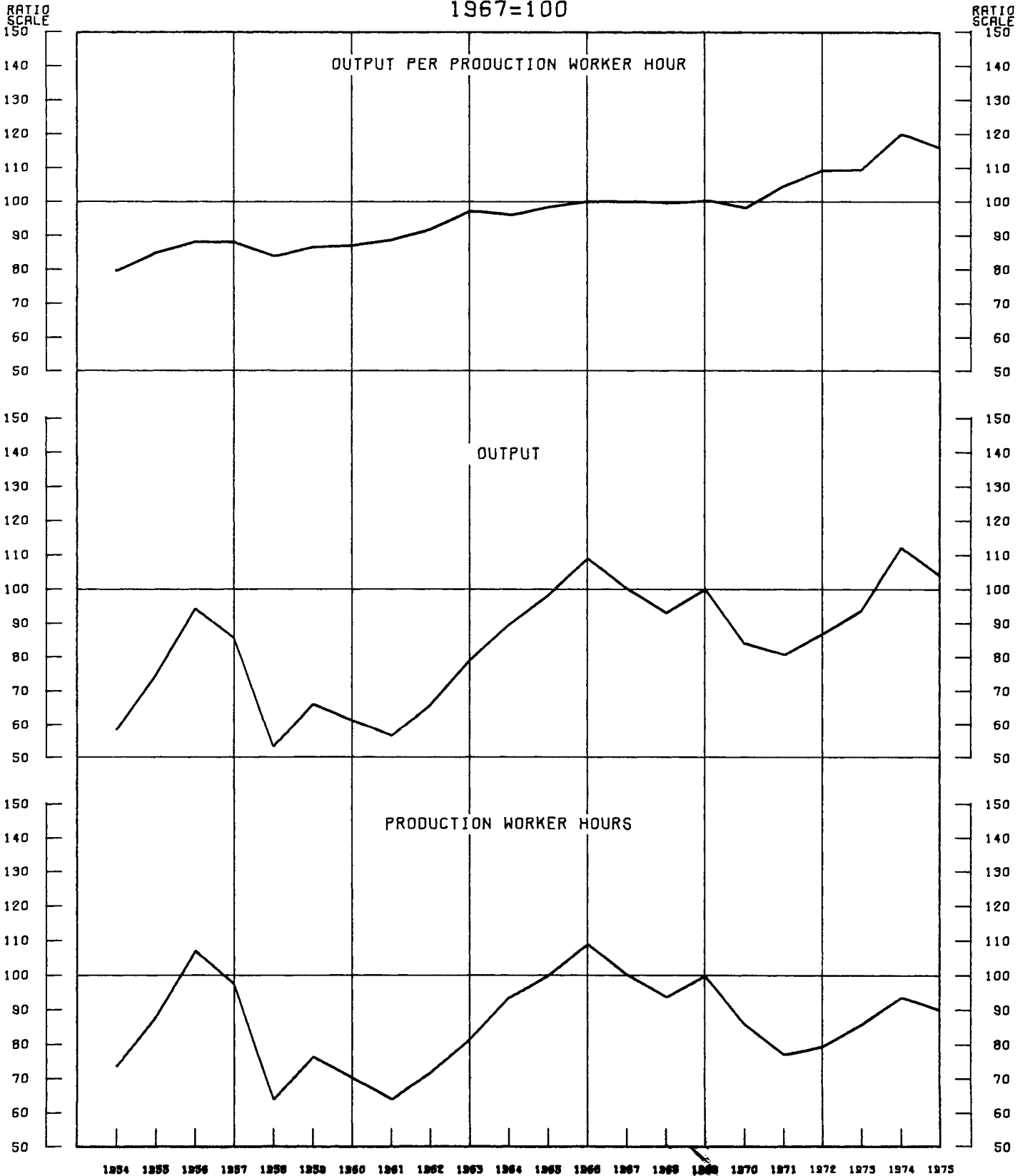
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 79  
 STEEL FOUNDRIES (SIC 3324, 3325), 1954-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



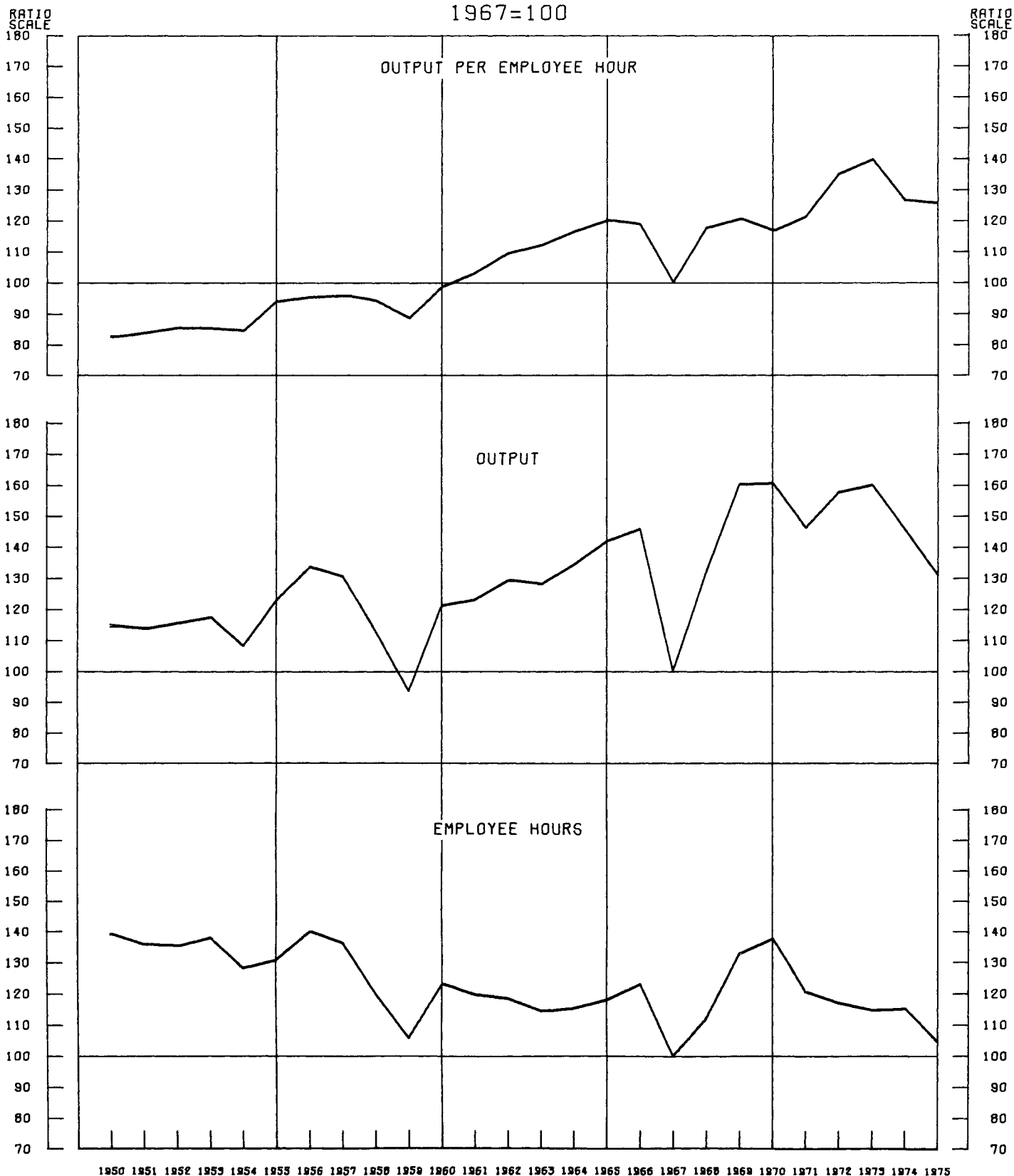
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 80  
 STEEL FOUNDRIES (SIC 3324, 3325), 1954-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



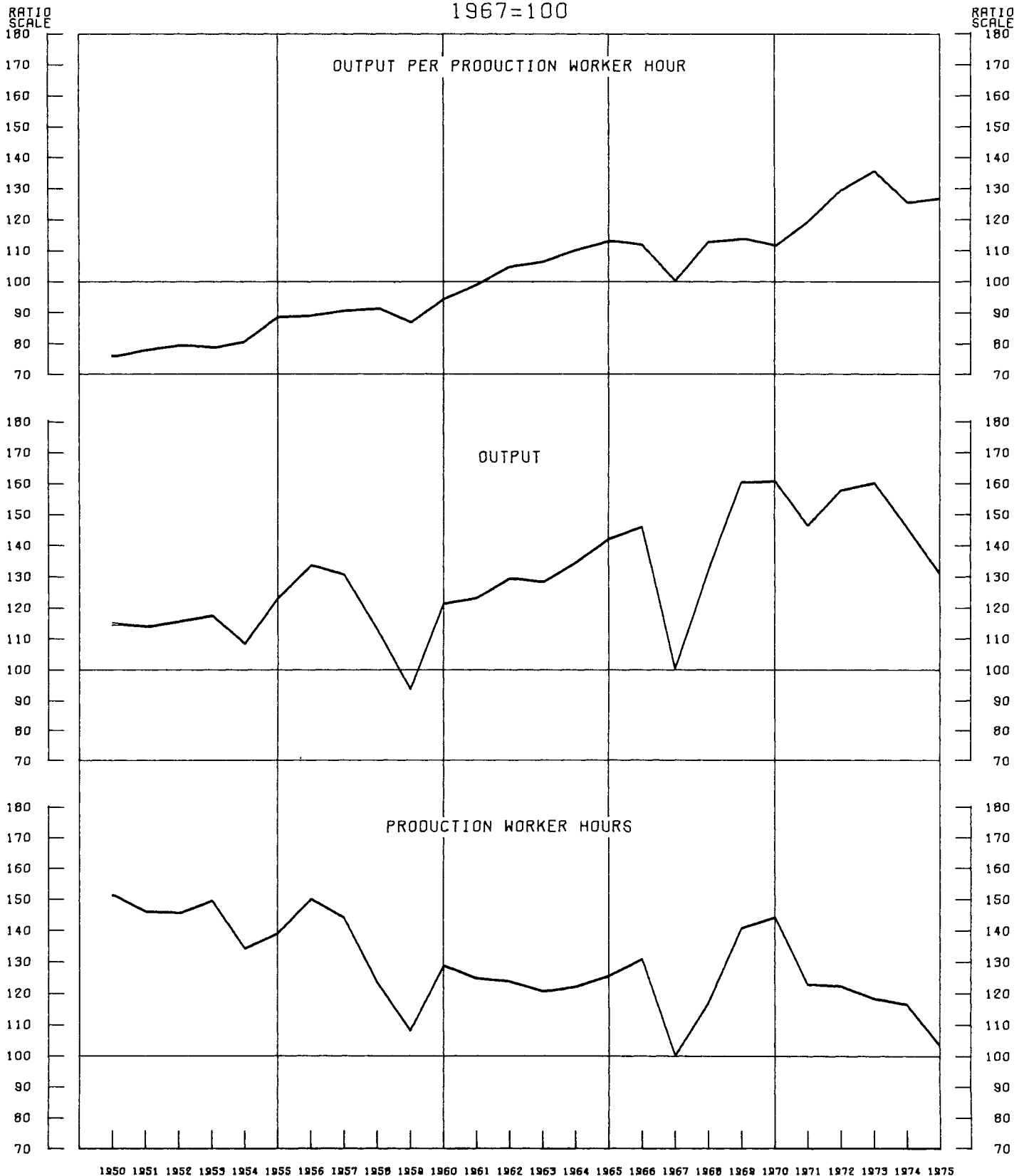
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 81  
 PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



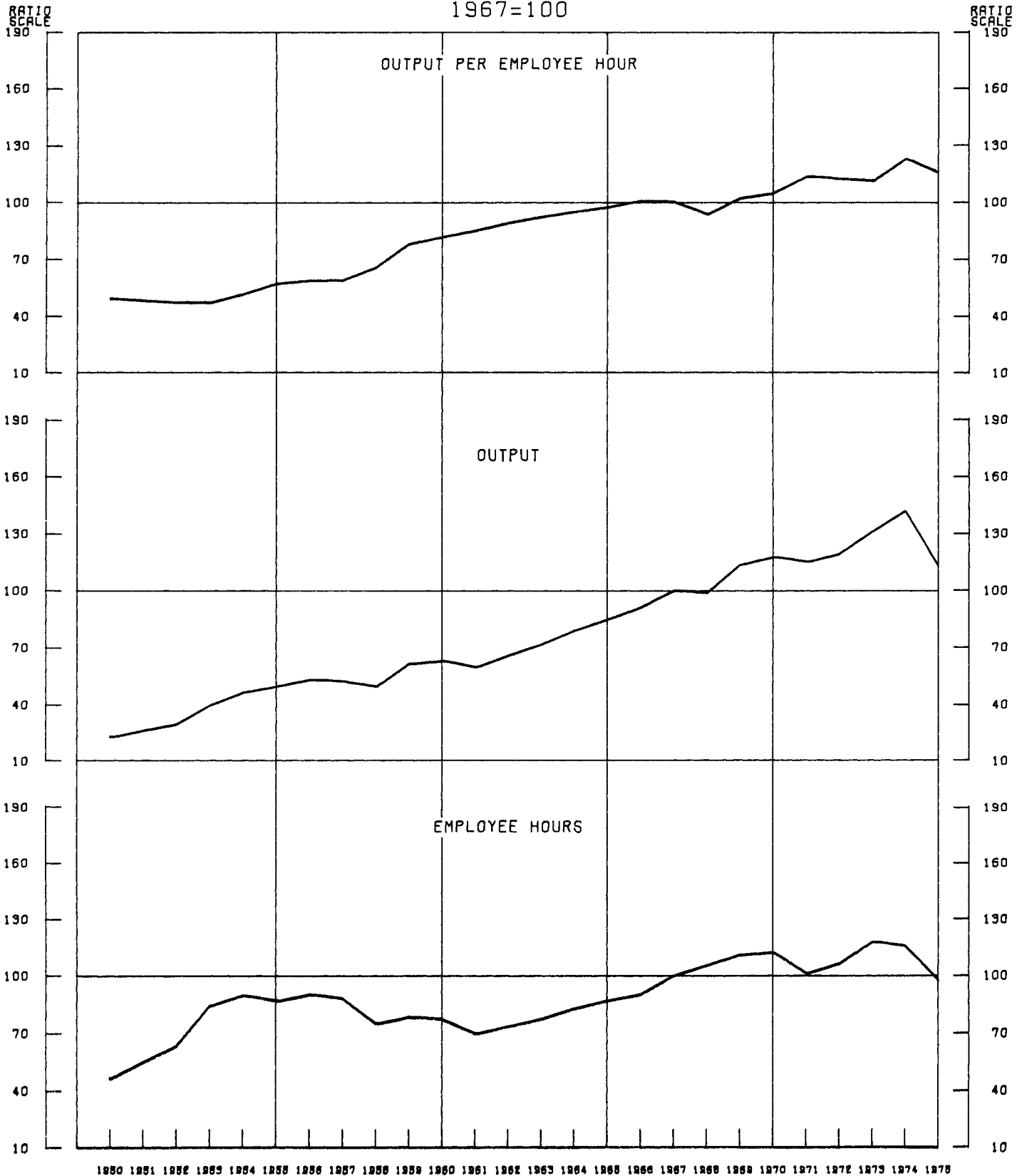
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 82  
 PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 83  
 PRIMARY ALUMINUM (SIC 3334), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

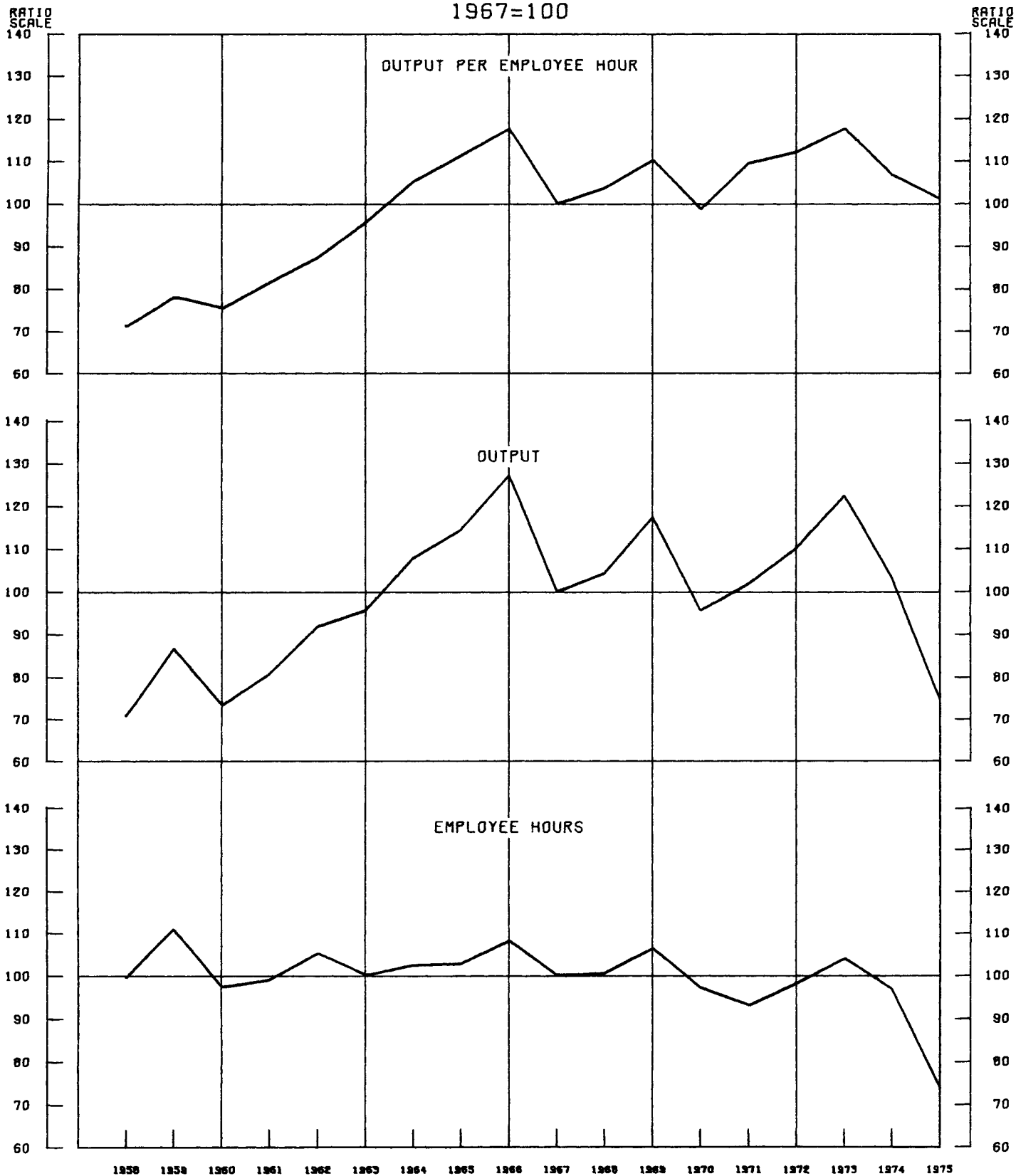


CHART 84  
 PRIMARY ALUMINUM (SIC 3334), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



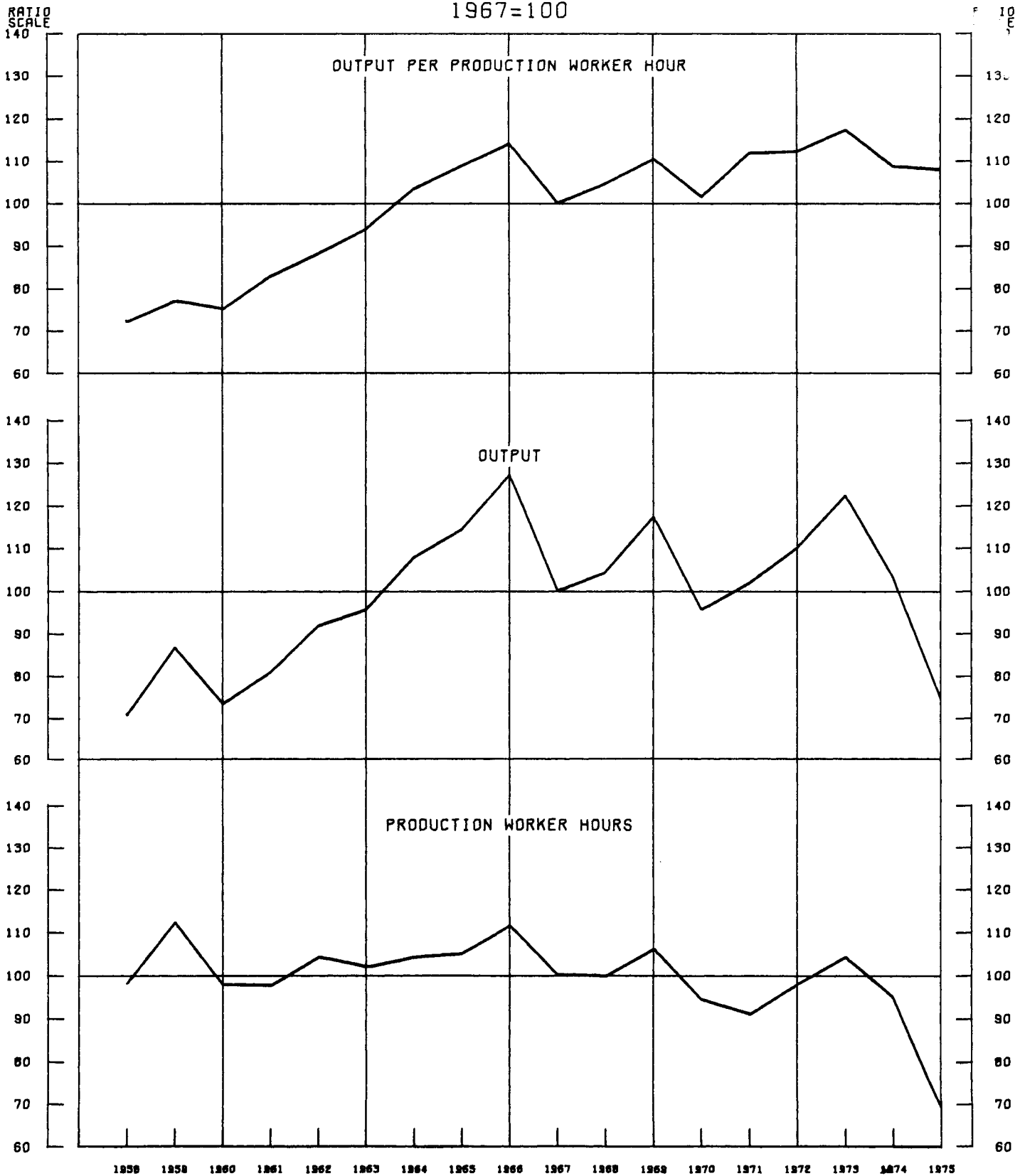
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 85  
 COPPER ROLLING AND DRAWING (SIC 3351), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



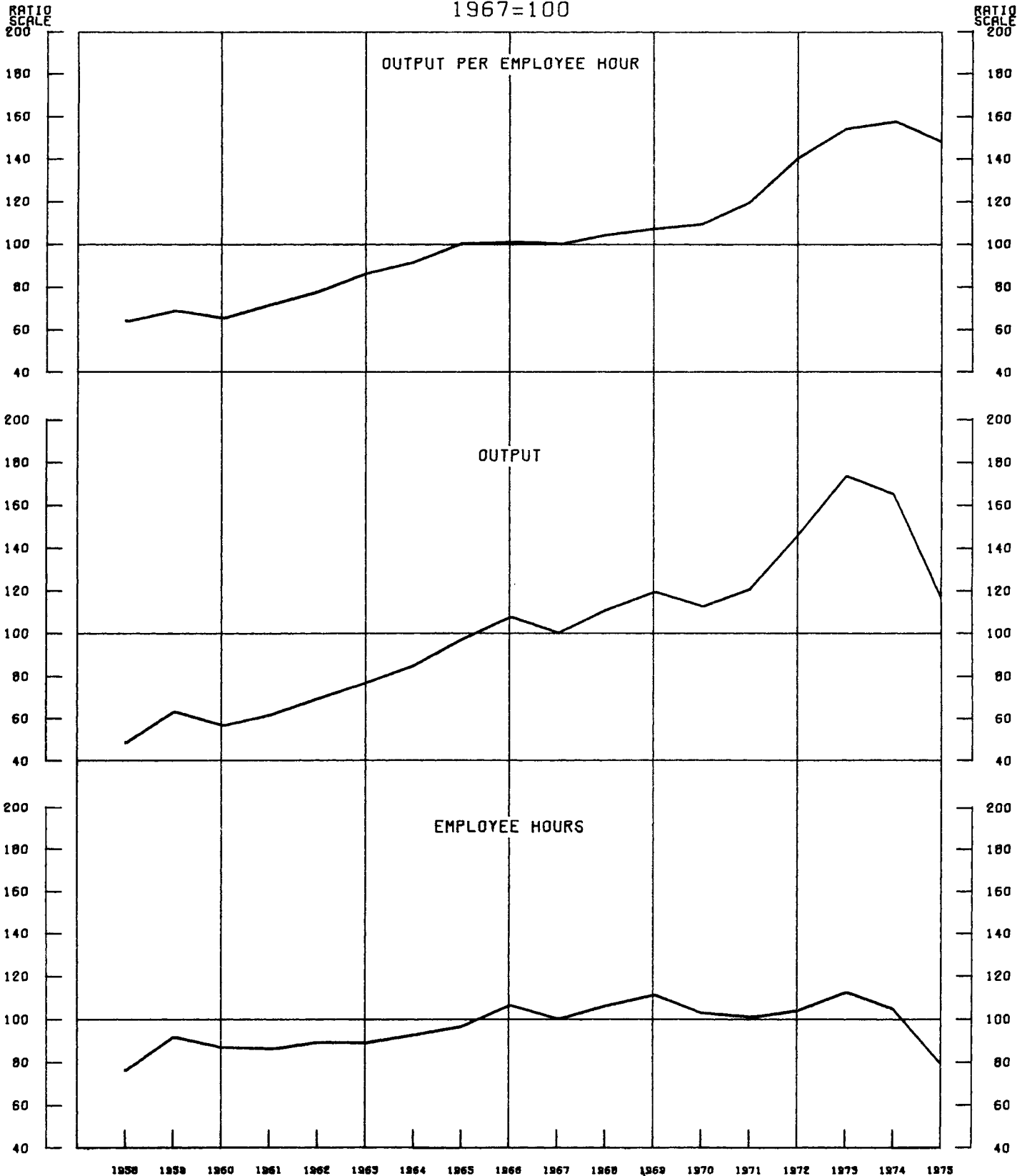
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 86  
 COPPER ROLLING AND DRAWING (SIC 3351), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



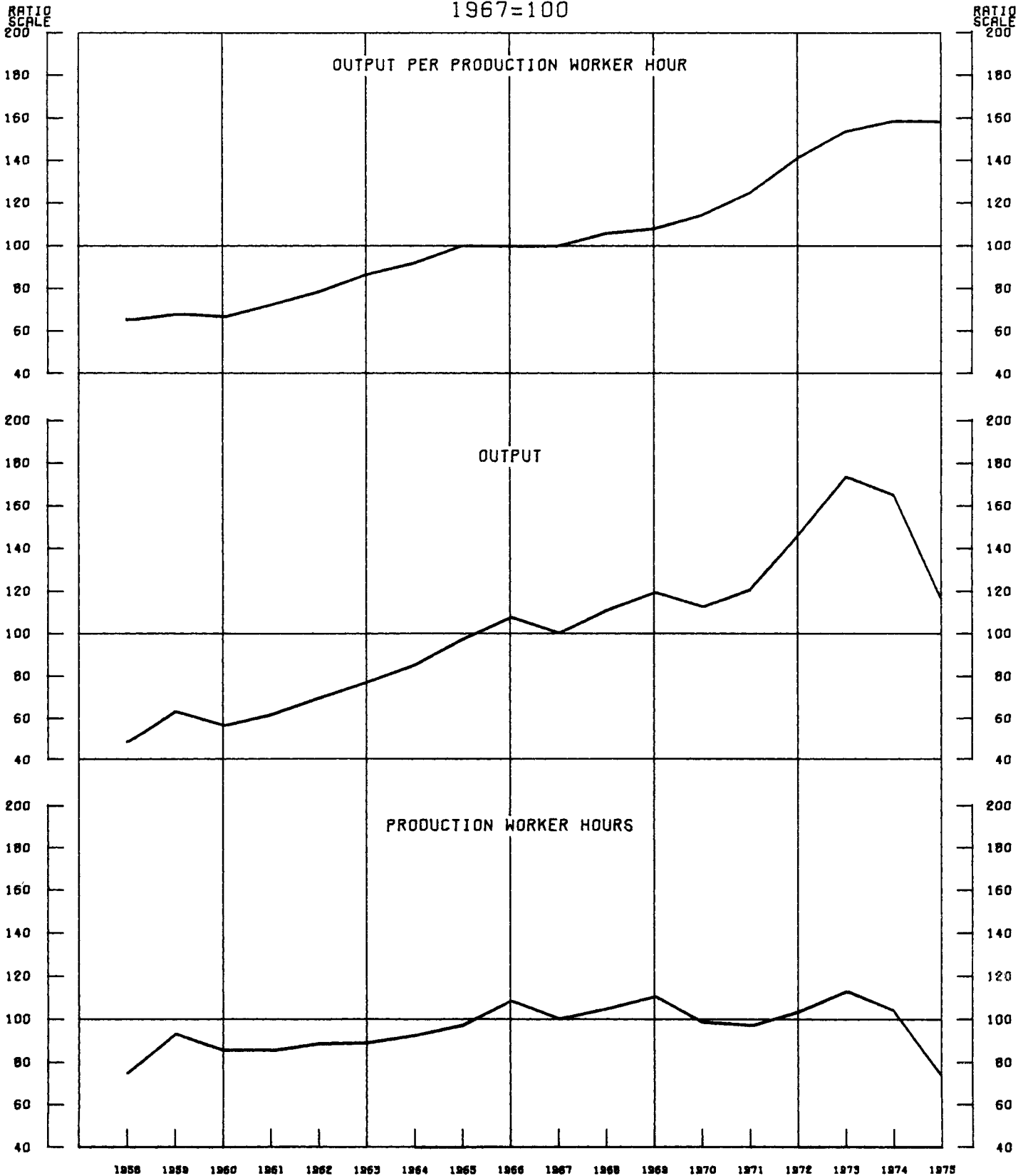
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 87  
 ALUMINUM ROLLING AND DRAWING (SIC 3353, 3354, 3355), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



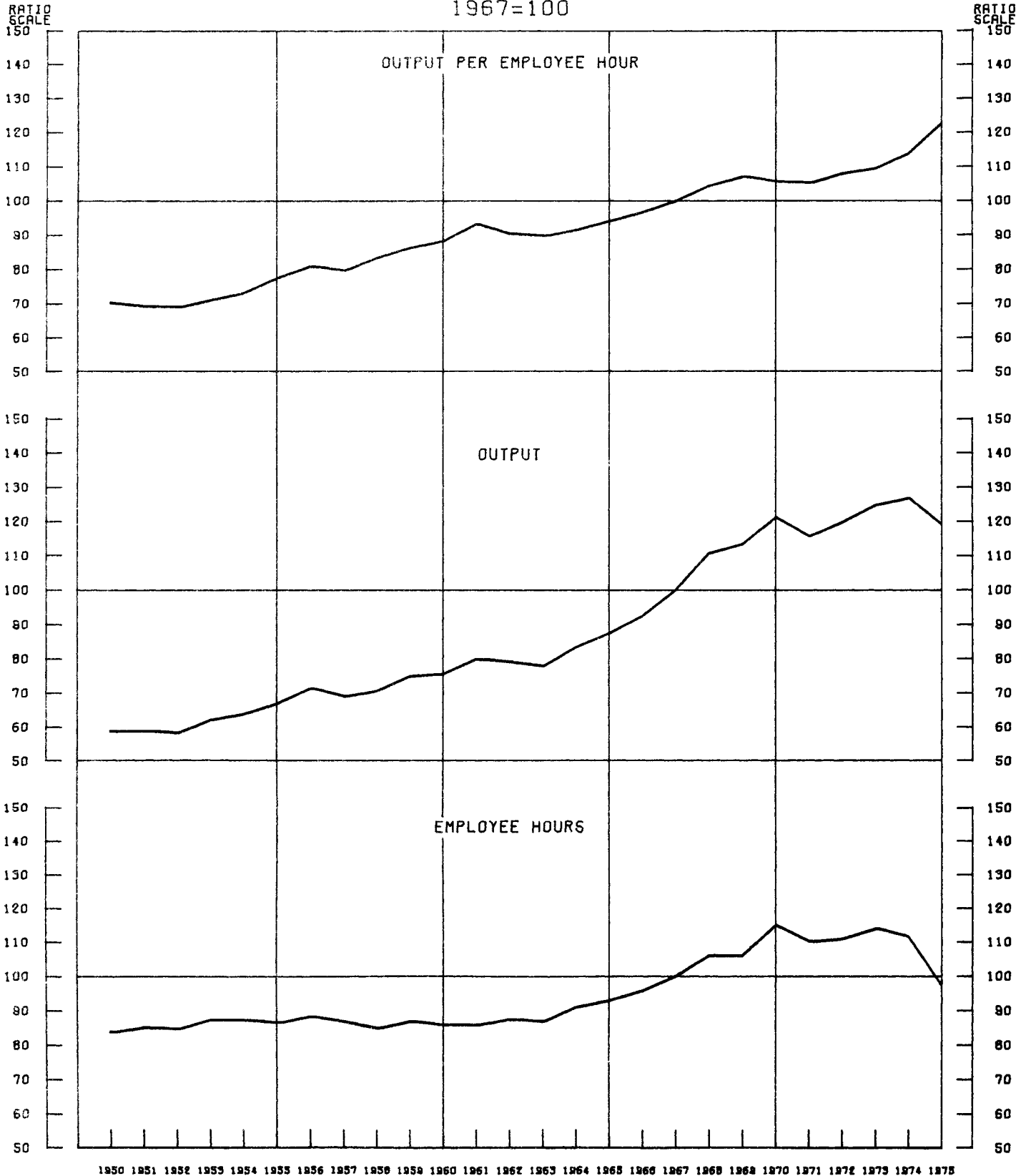
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 88  
 ALUMINUM ROLLING AND DRAWING (SIC 3353, 3354, 3355), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 89  
 METAL CANS (SIC 341), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



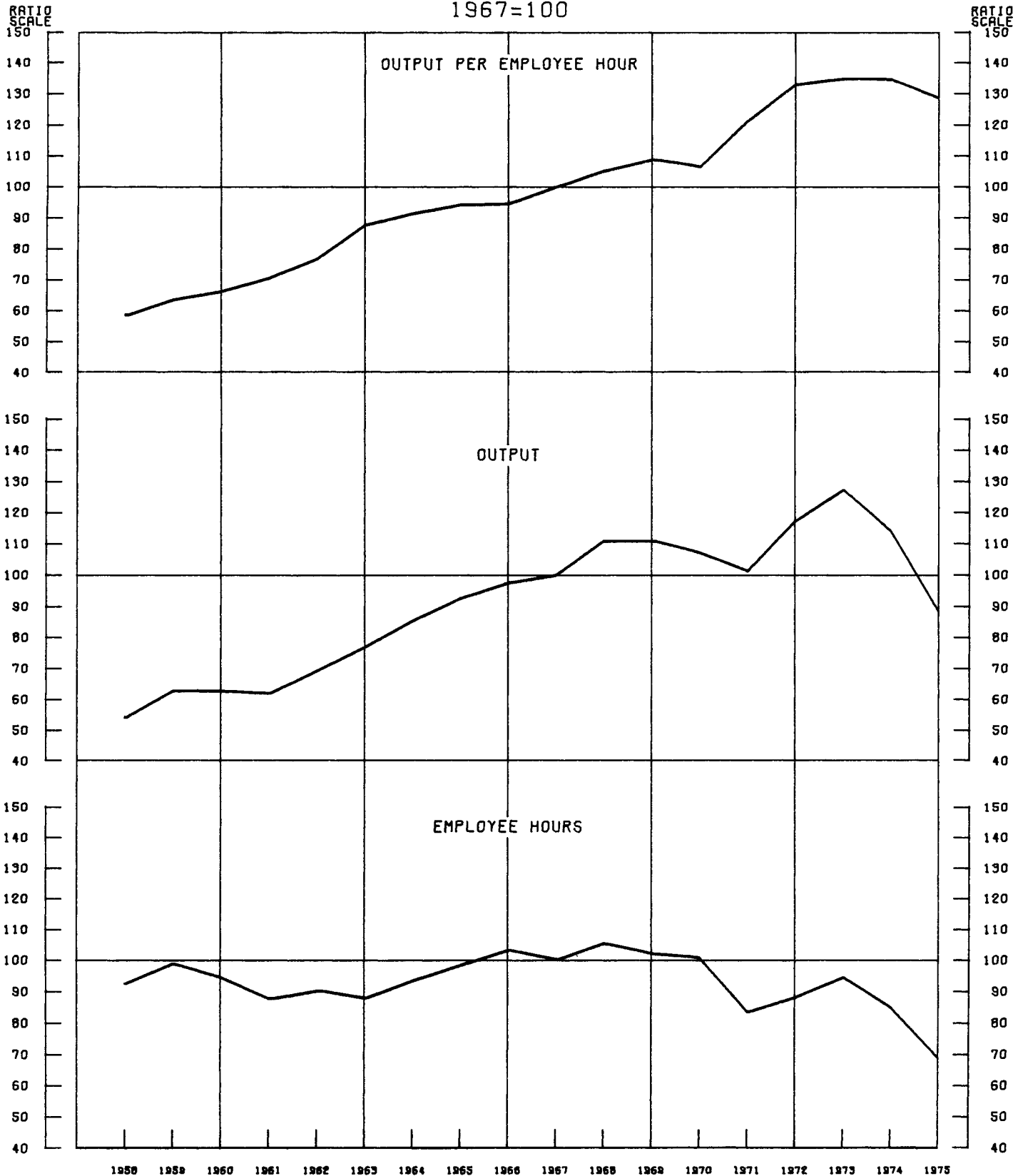
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 90  
 METAL CANS (SIC 341), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

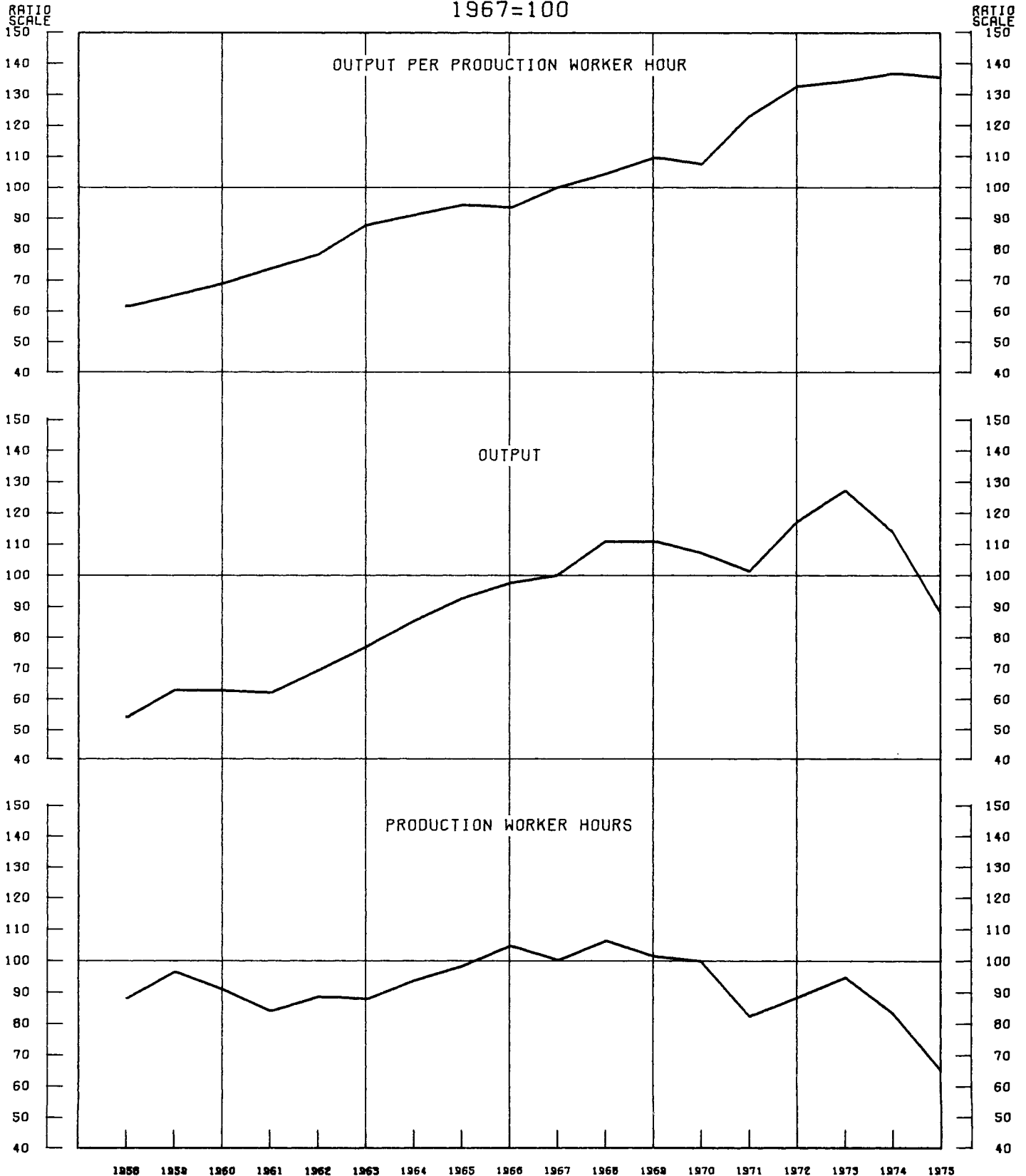
CHART 91  
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

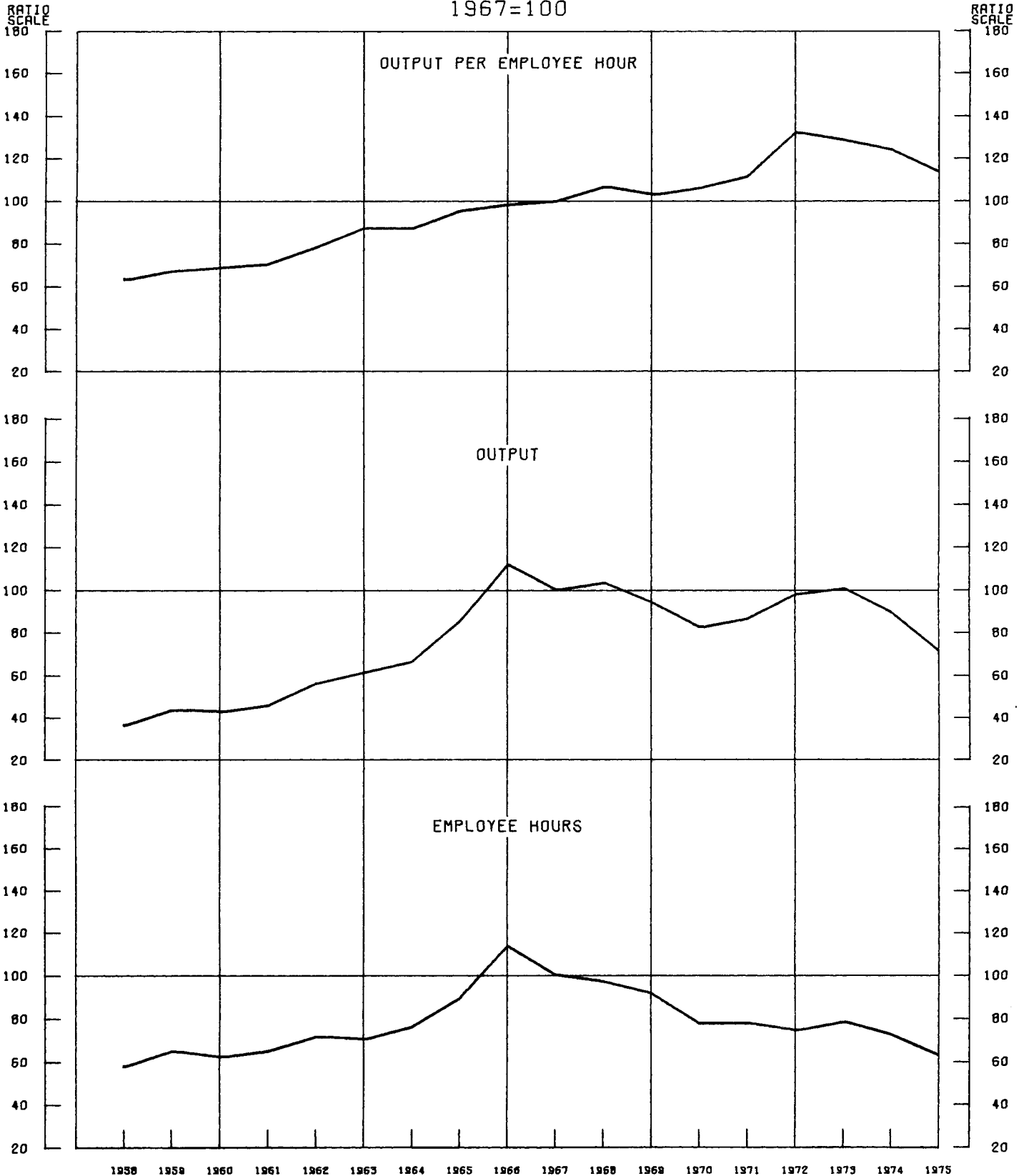


CHART 92  
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



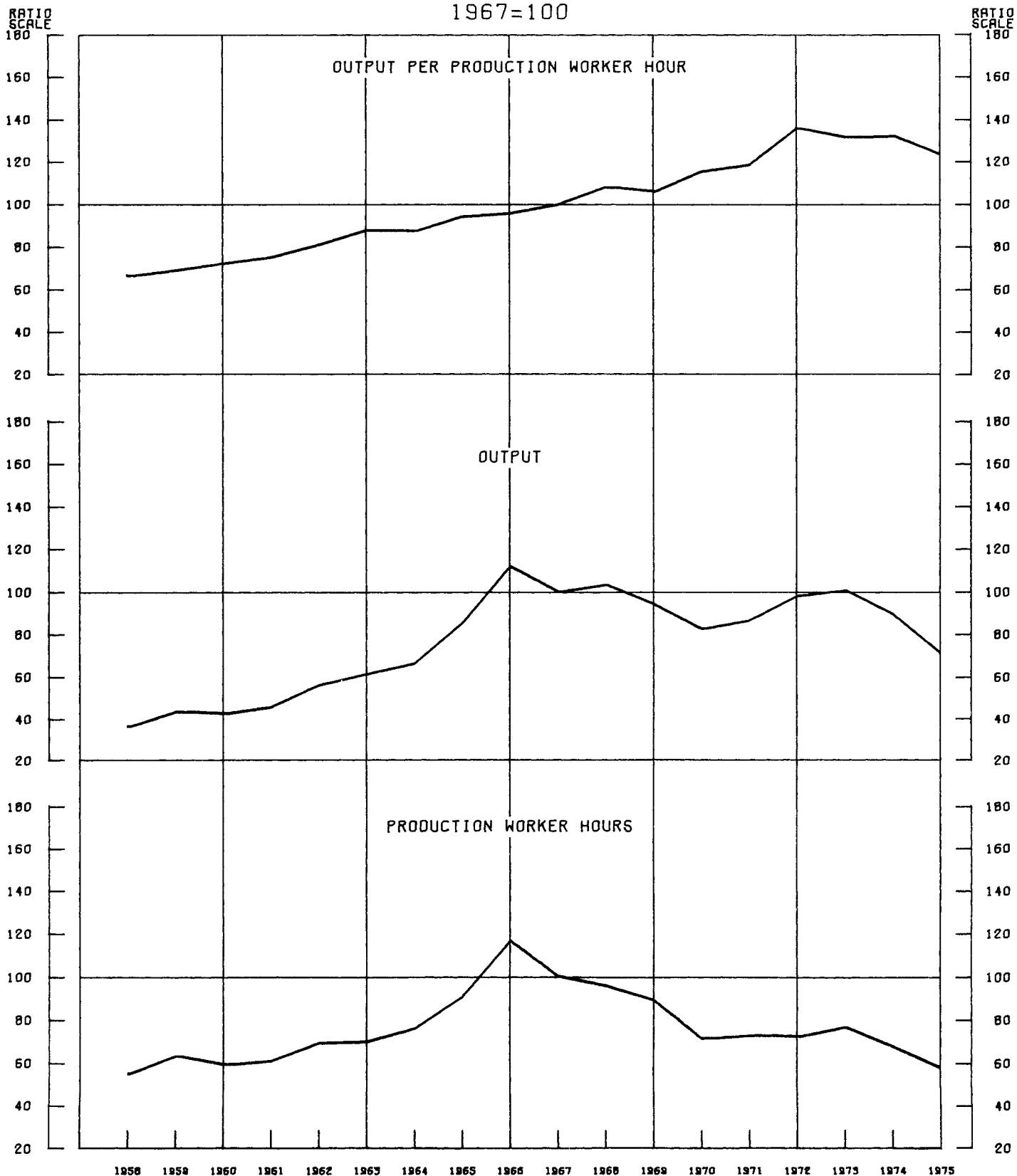
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 93  
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



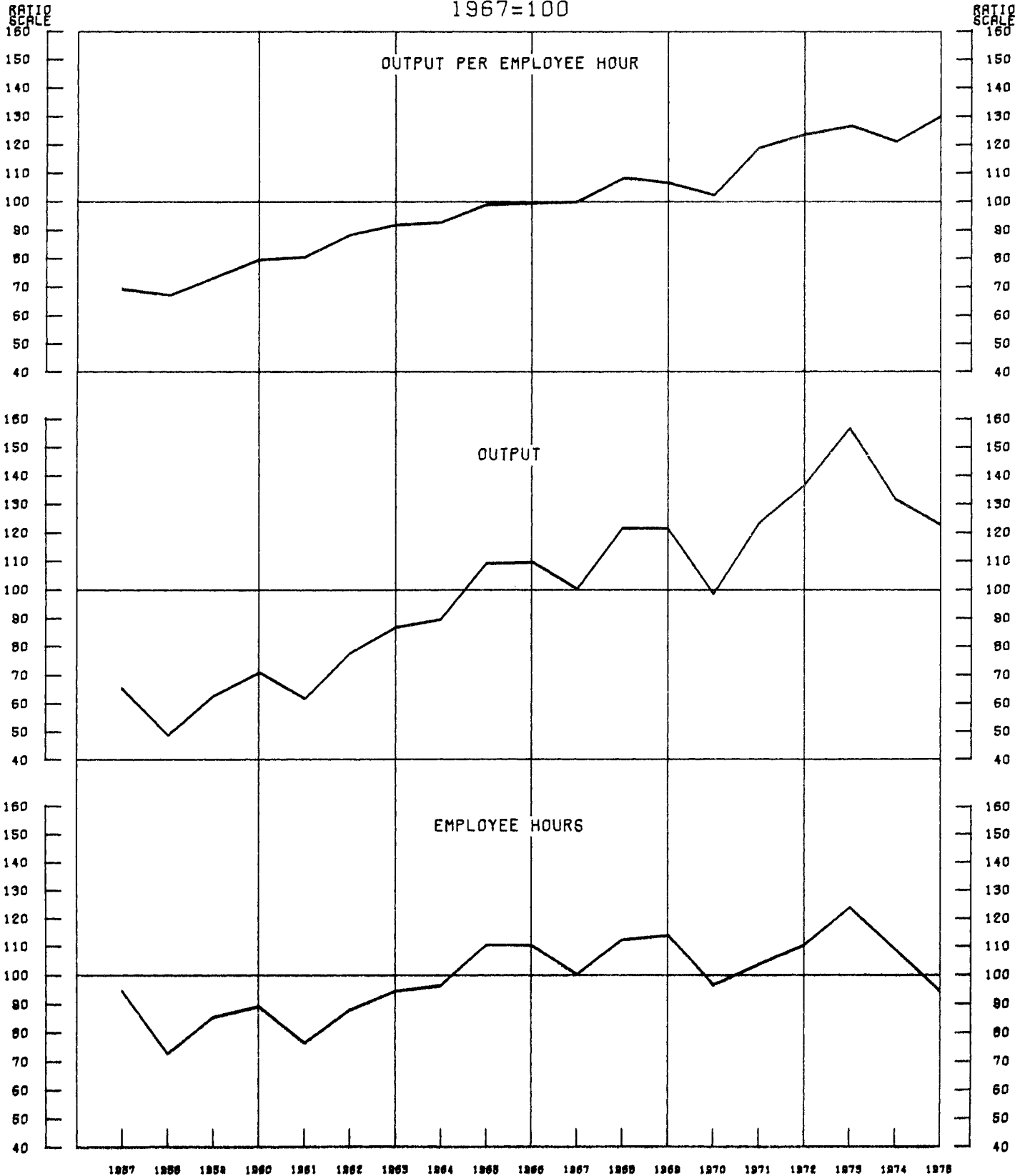
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 94  
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



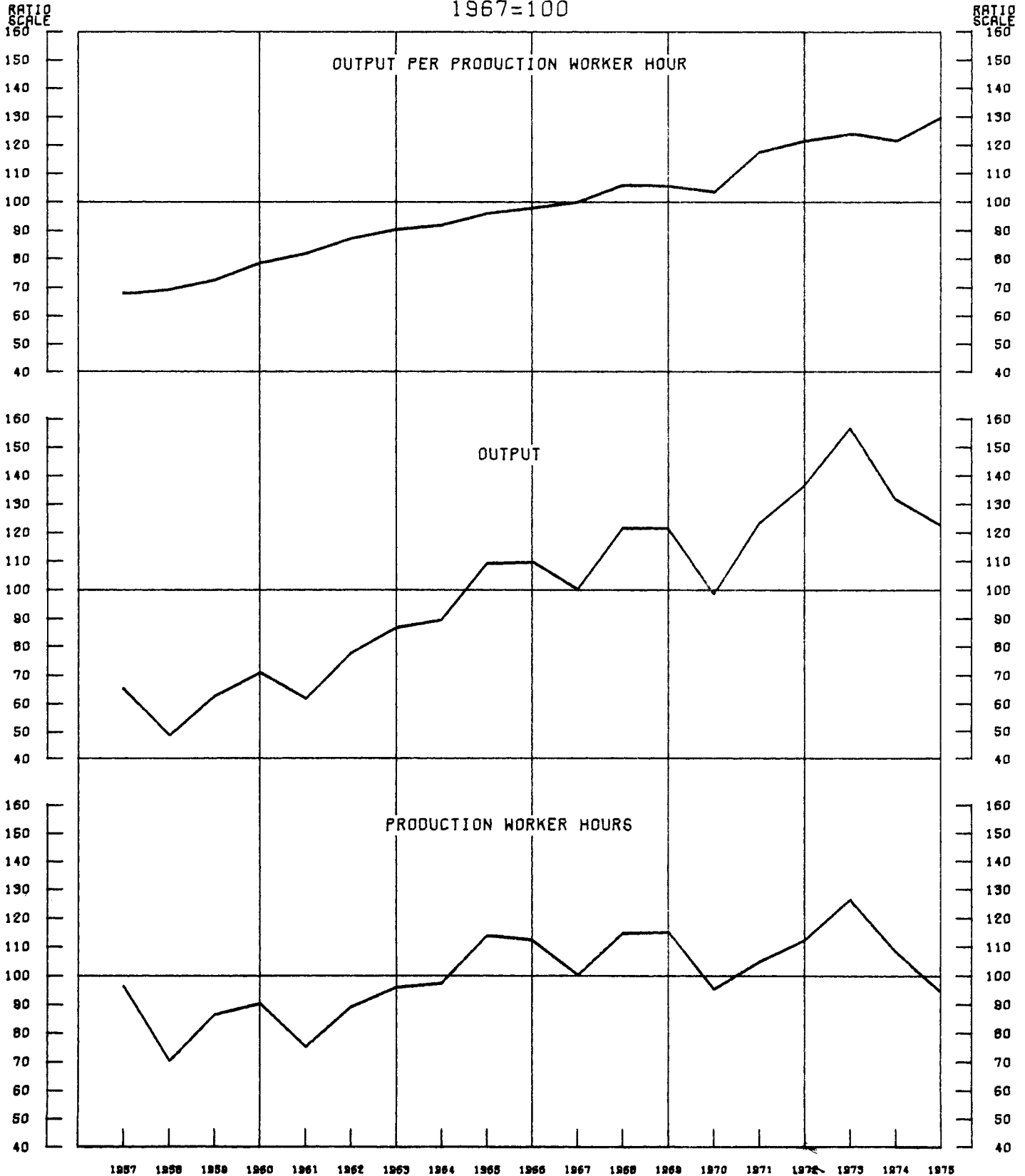
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 95  
 MOTOR VEHICLES AND EQUIPMENT (SIC 371), 1957-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



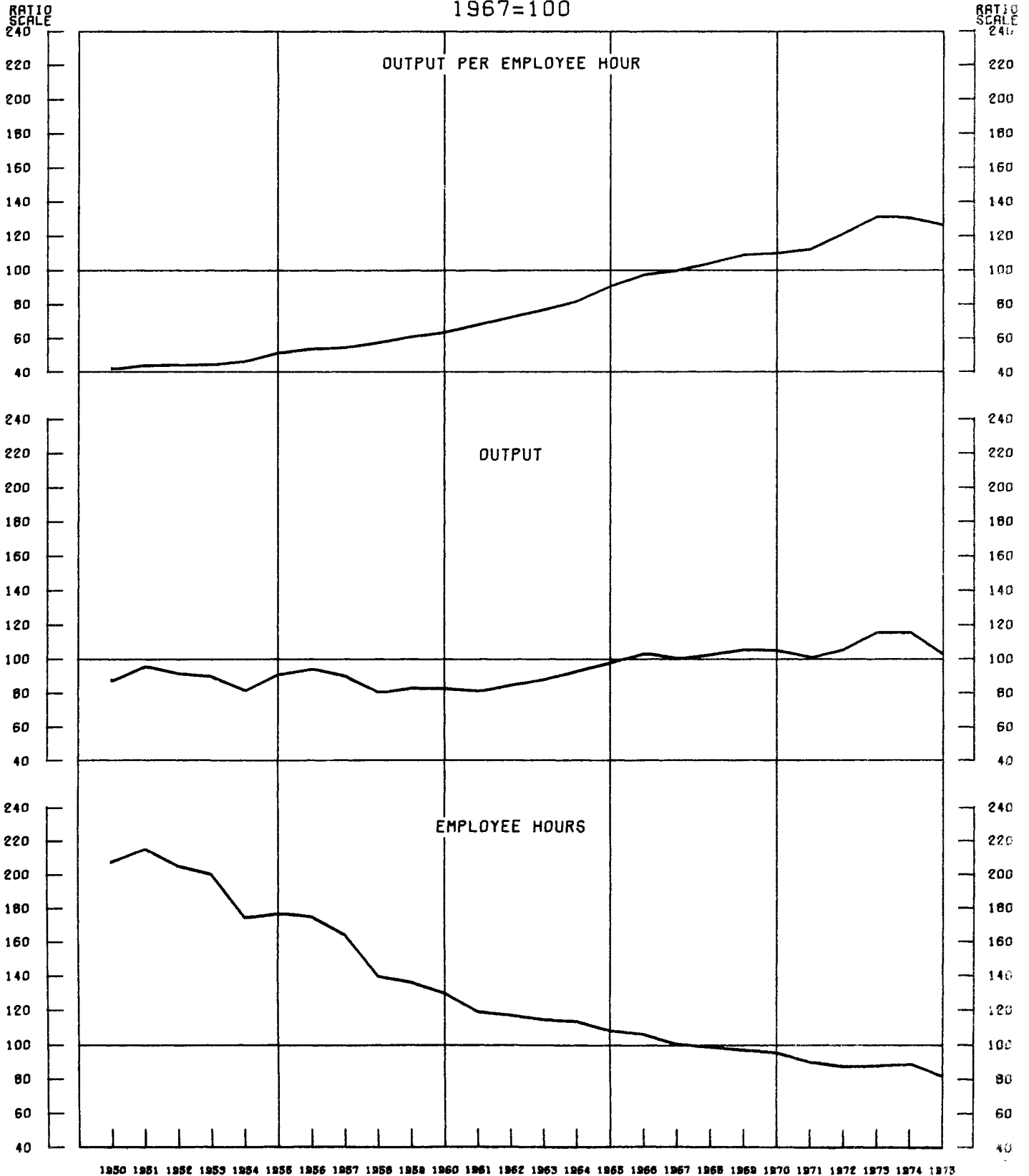
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 96  
 MOTOR VEHICLES AND EQUIPMENT (SIC 371), 1957-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



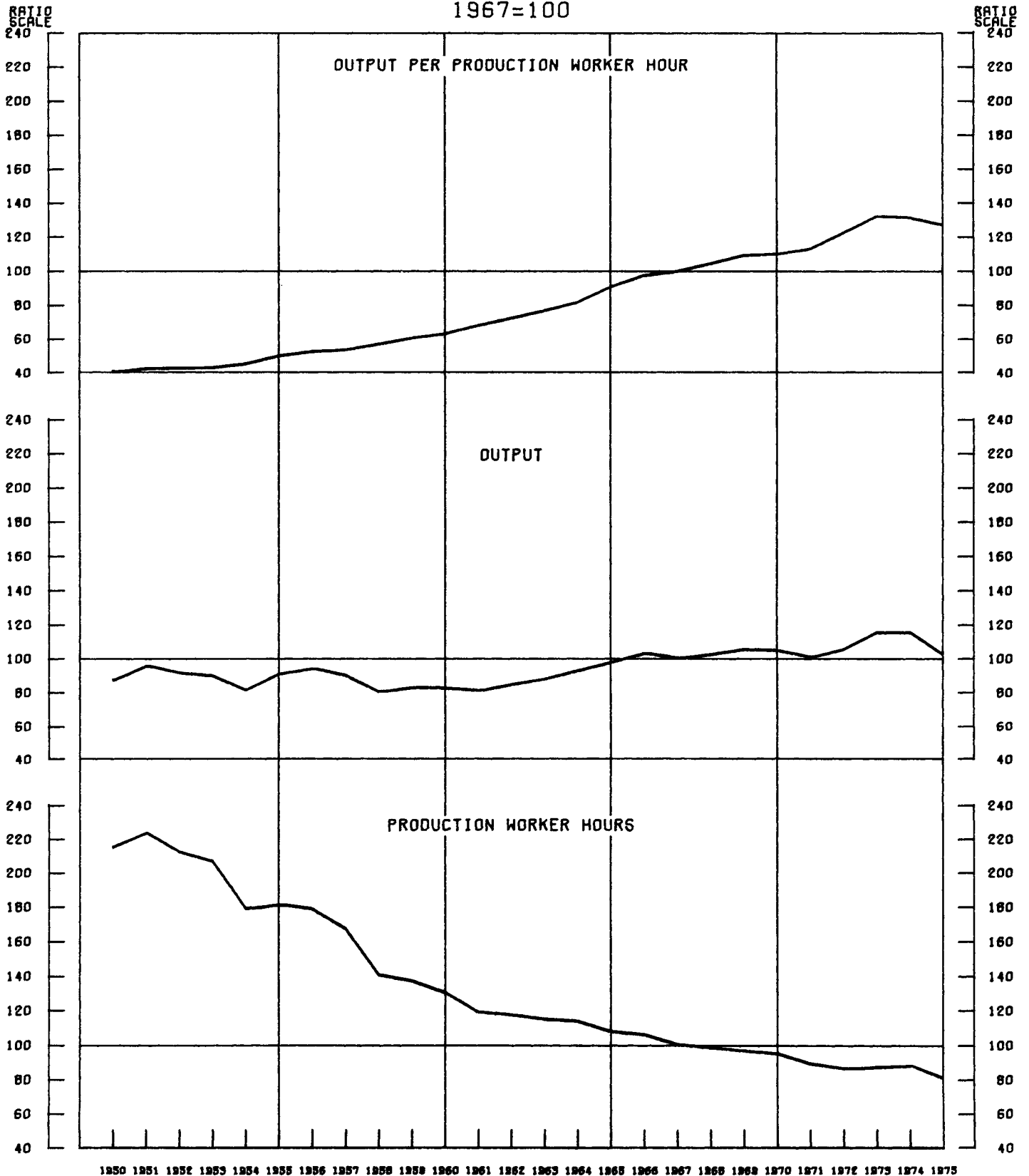
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 97  
 RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



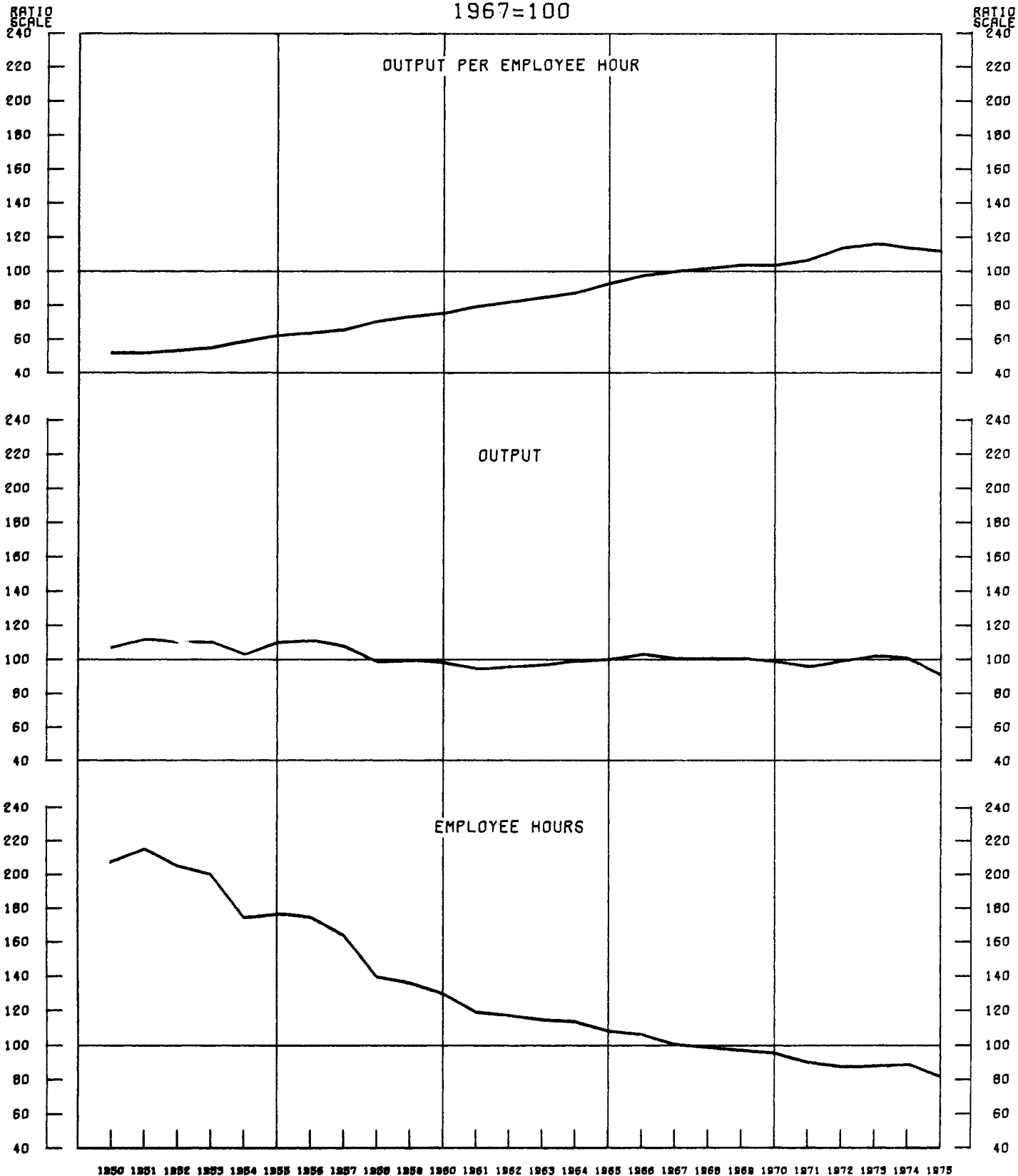
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 98  
 RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

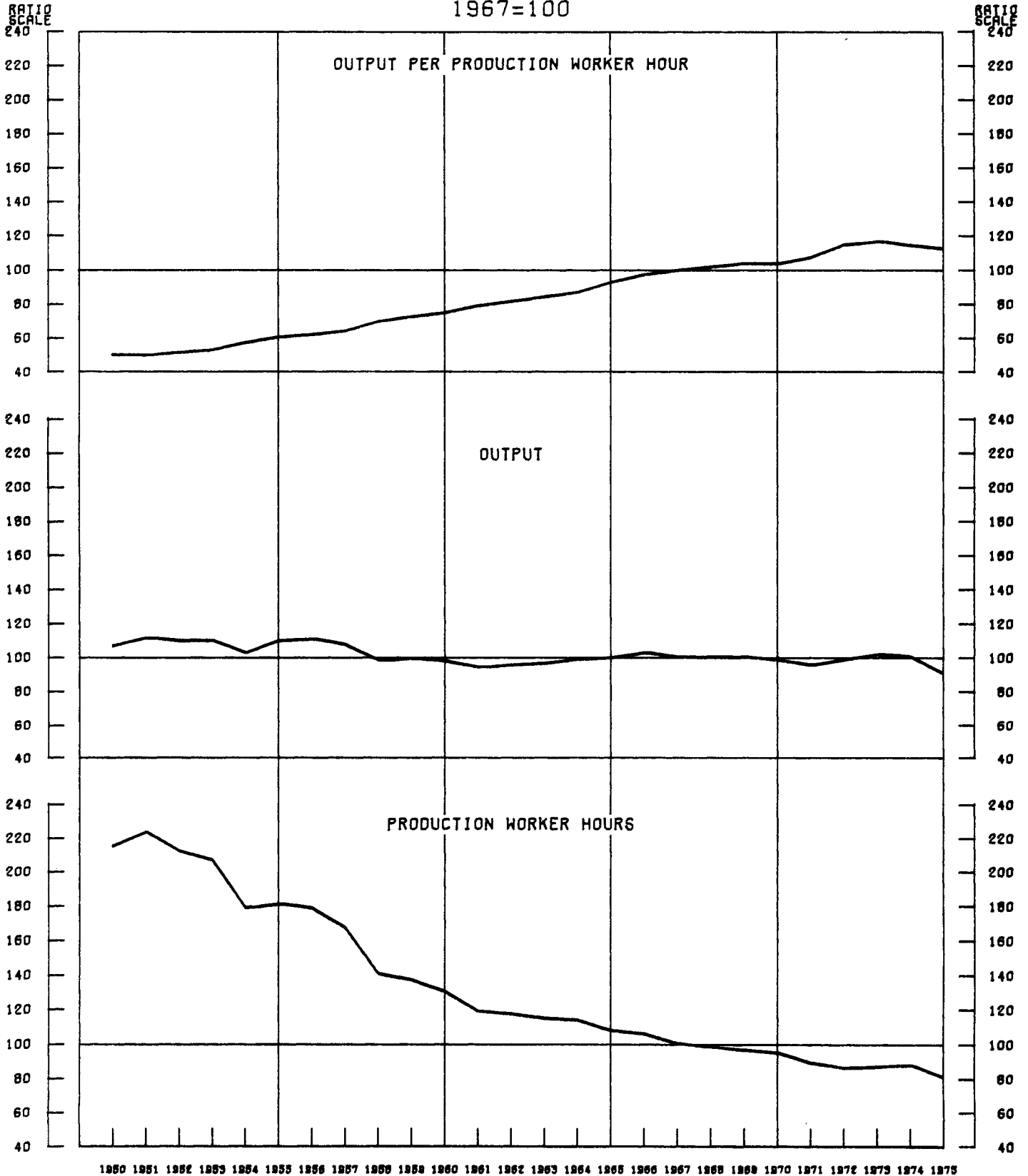
CHART 99  
 RAILROADS, CAR MILES (SIC 401, CLASS I), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

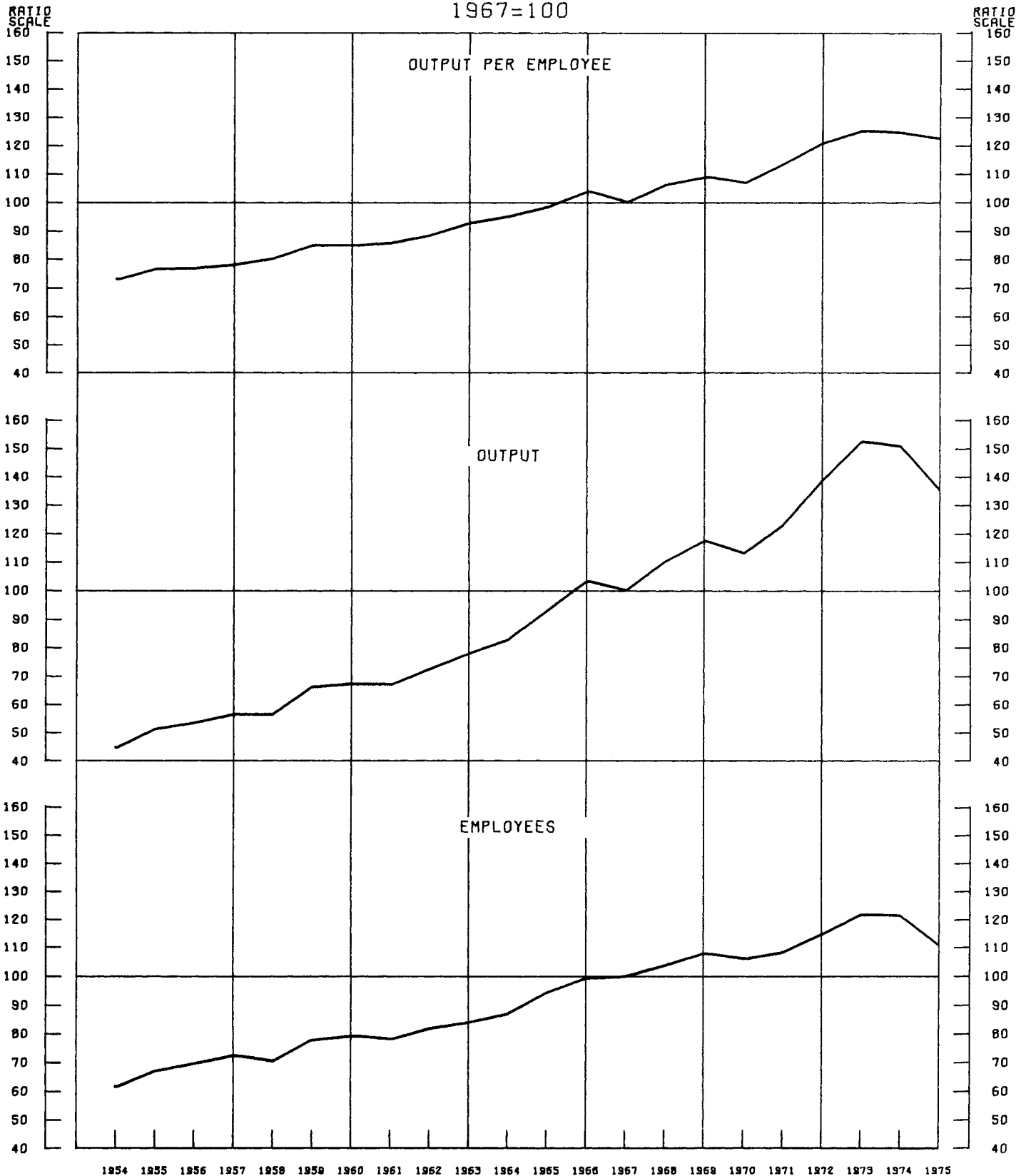


CHART 100  
 RAILROADS, CAR MILES (SIC 401, CLASS I), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



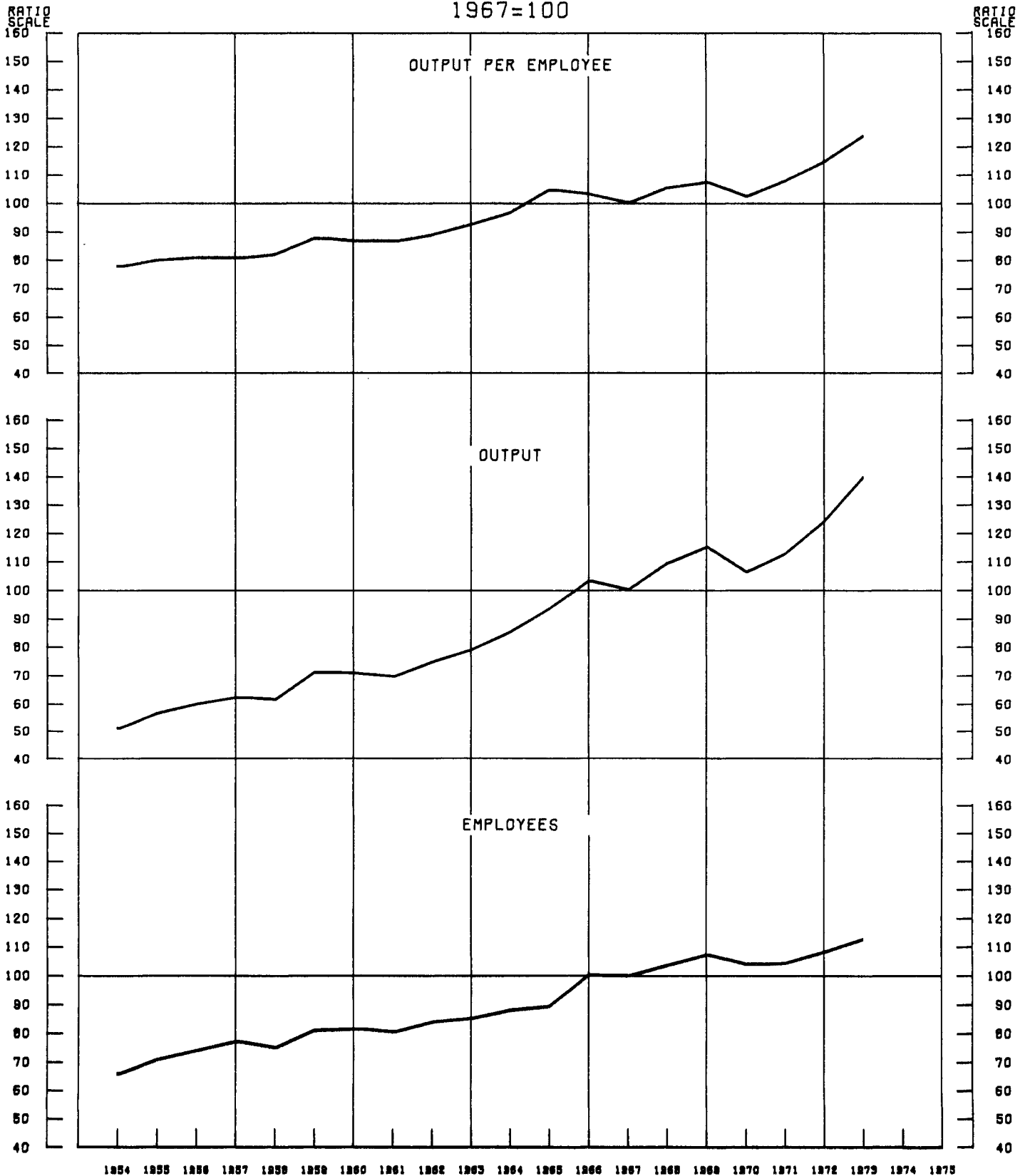
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 101  
 INTERCITY TRUCKING (SIC 4213 PT), 1954-75  
 OUTPUT PER EMPLOYEE AND RELATED DATA  
 1967=100



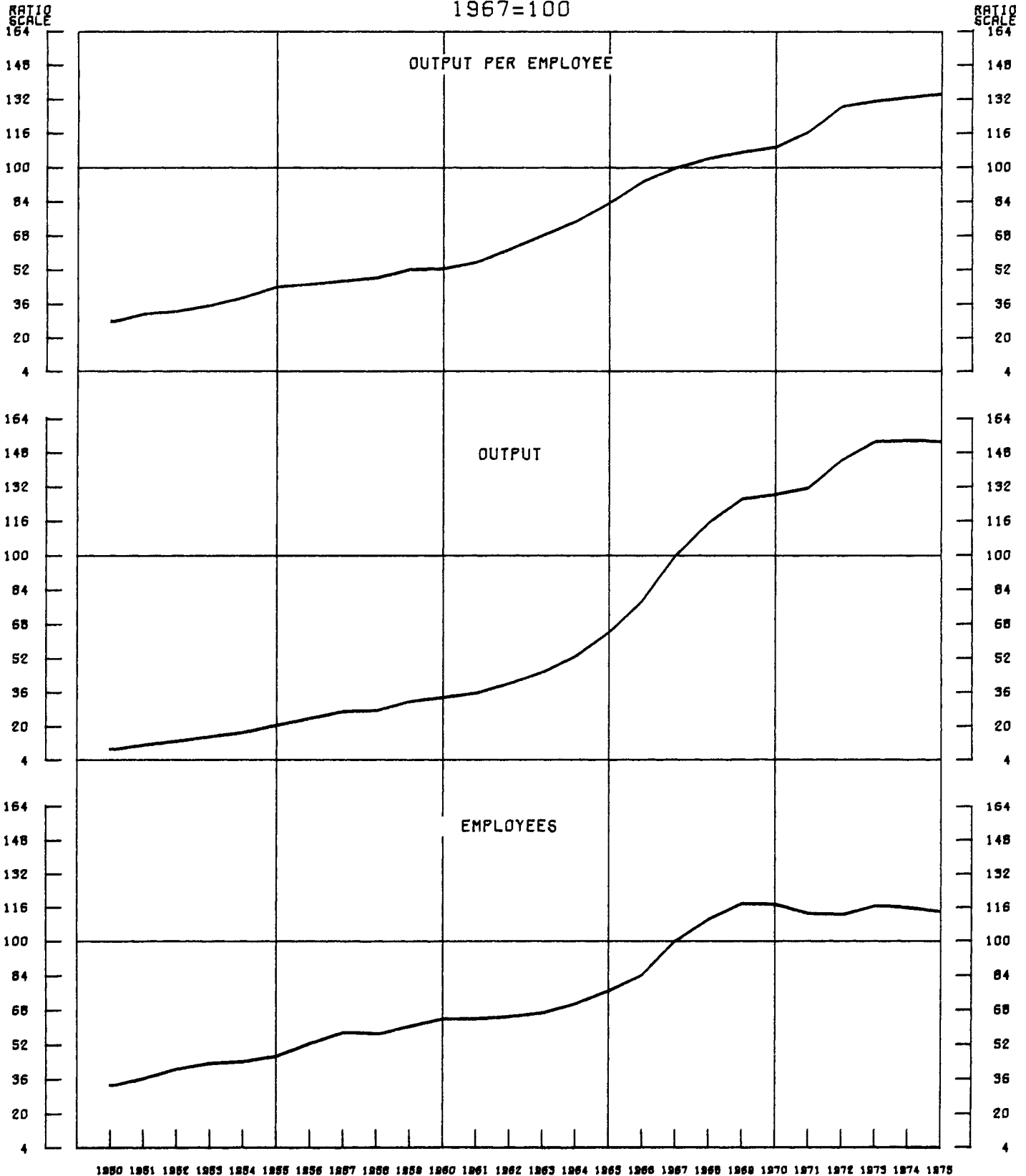
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 102  
 INTERCITY TRUCKING - GENERAL FREIGHT (SIC 4213 PT). 1954-73  
 OUTPUT PER EMPLOYEE AND RELATED DATA  
 1967=100



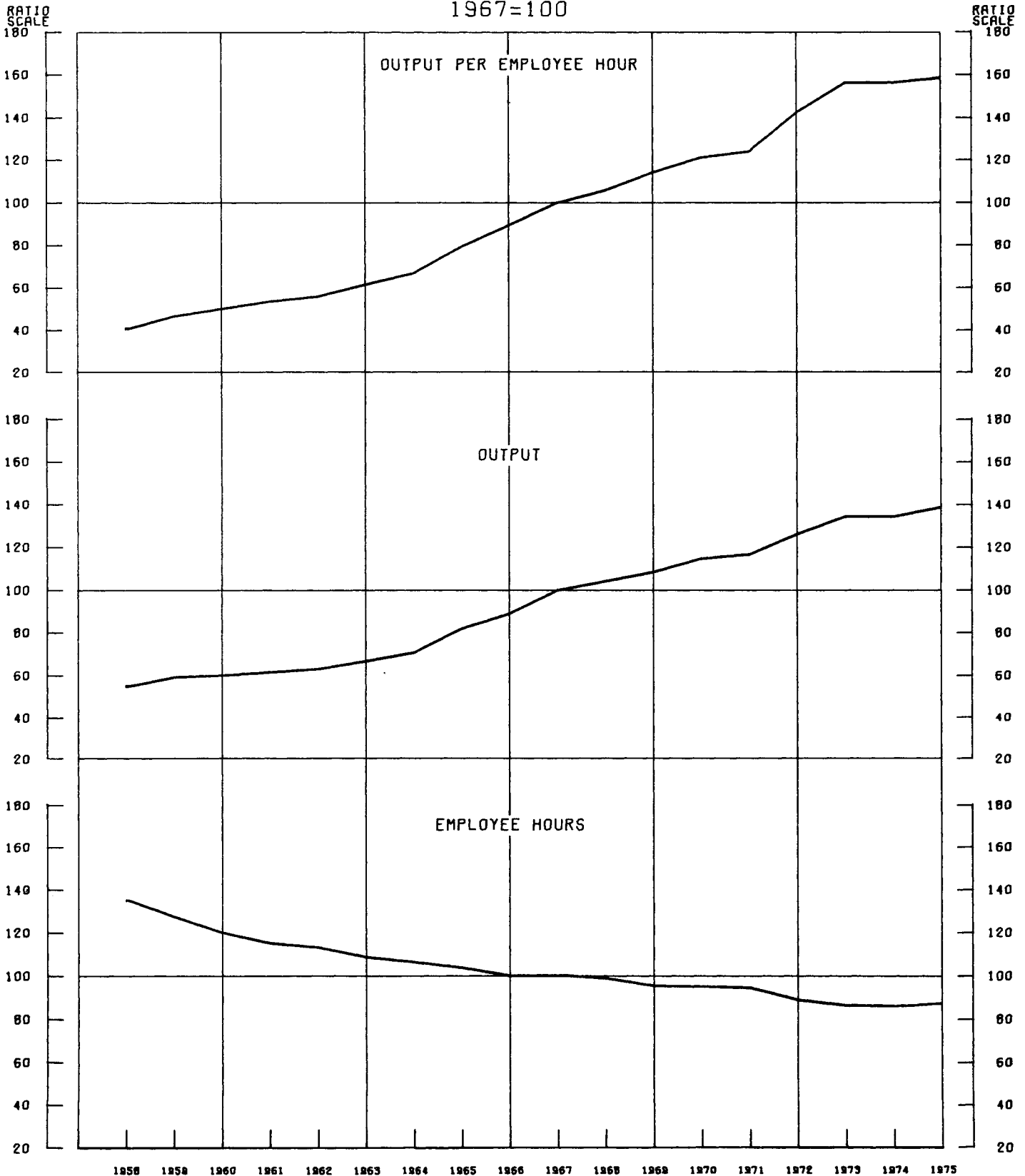
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 103  
 AIR TRANSPORTATION (SIC 4511), 1950-75  
 OUTPUT PER EMPLOYEE AND RELATED DATA  
 1967=100



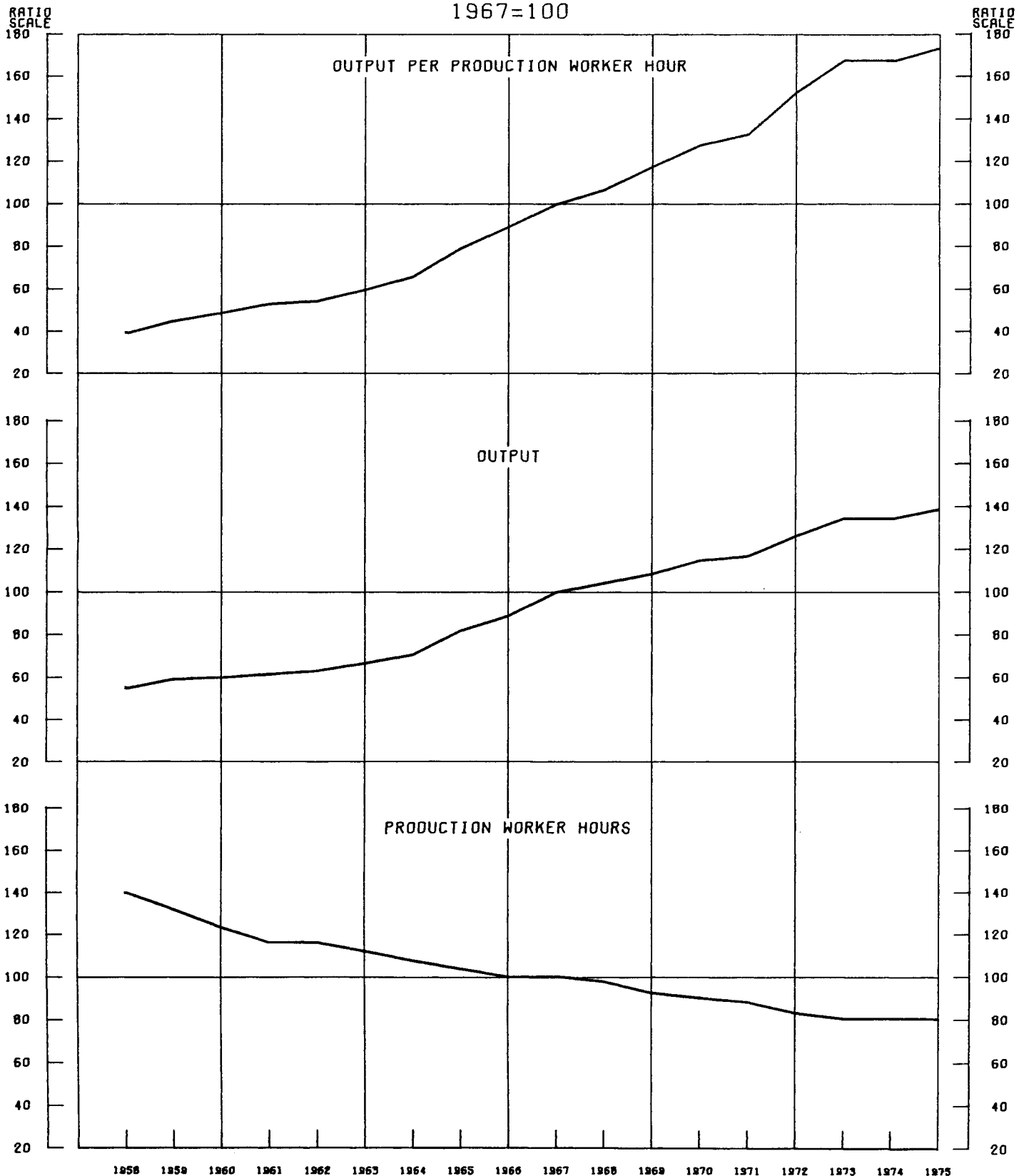
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 104  
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



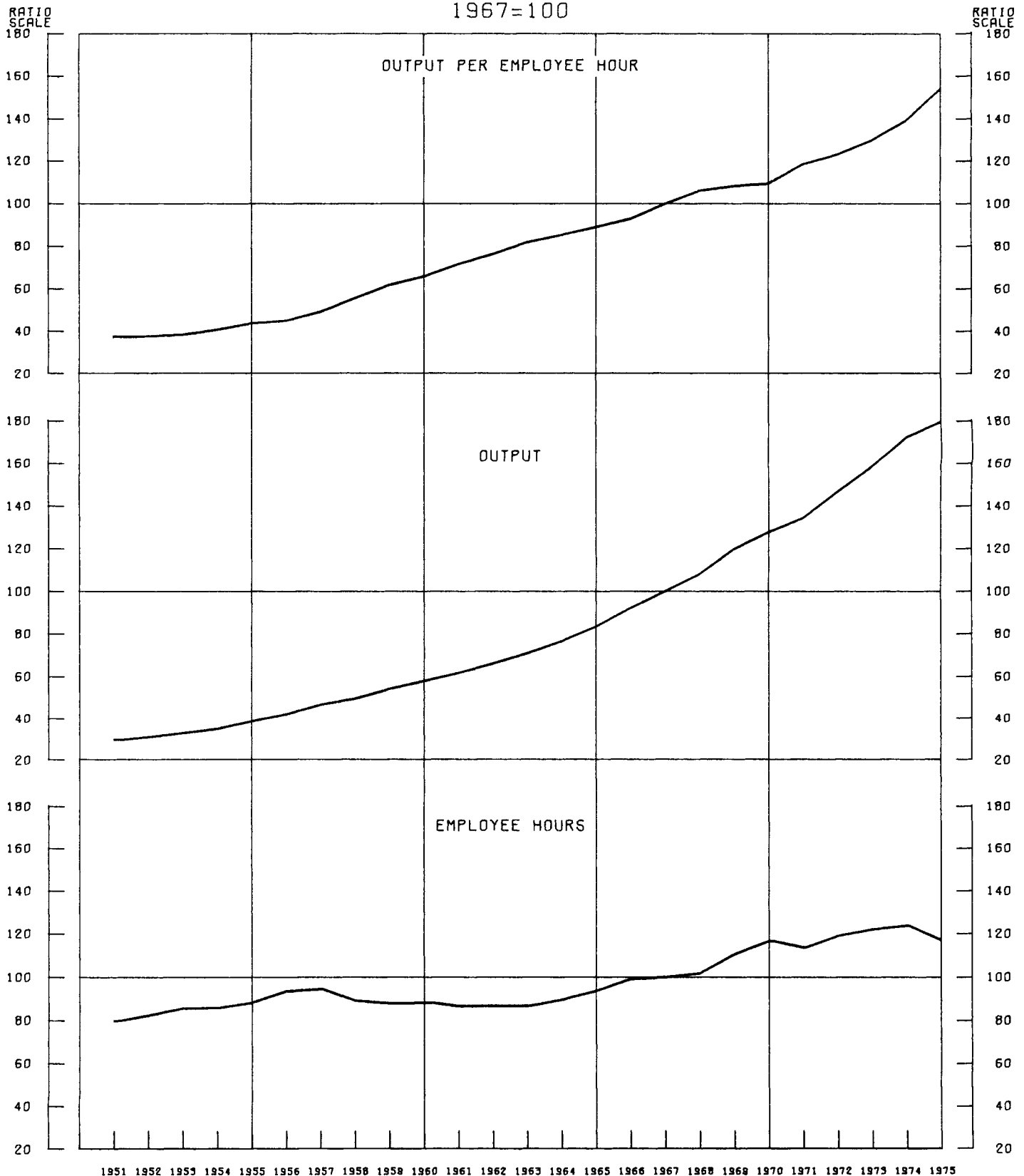
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 105  
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



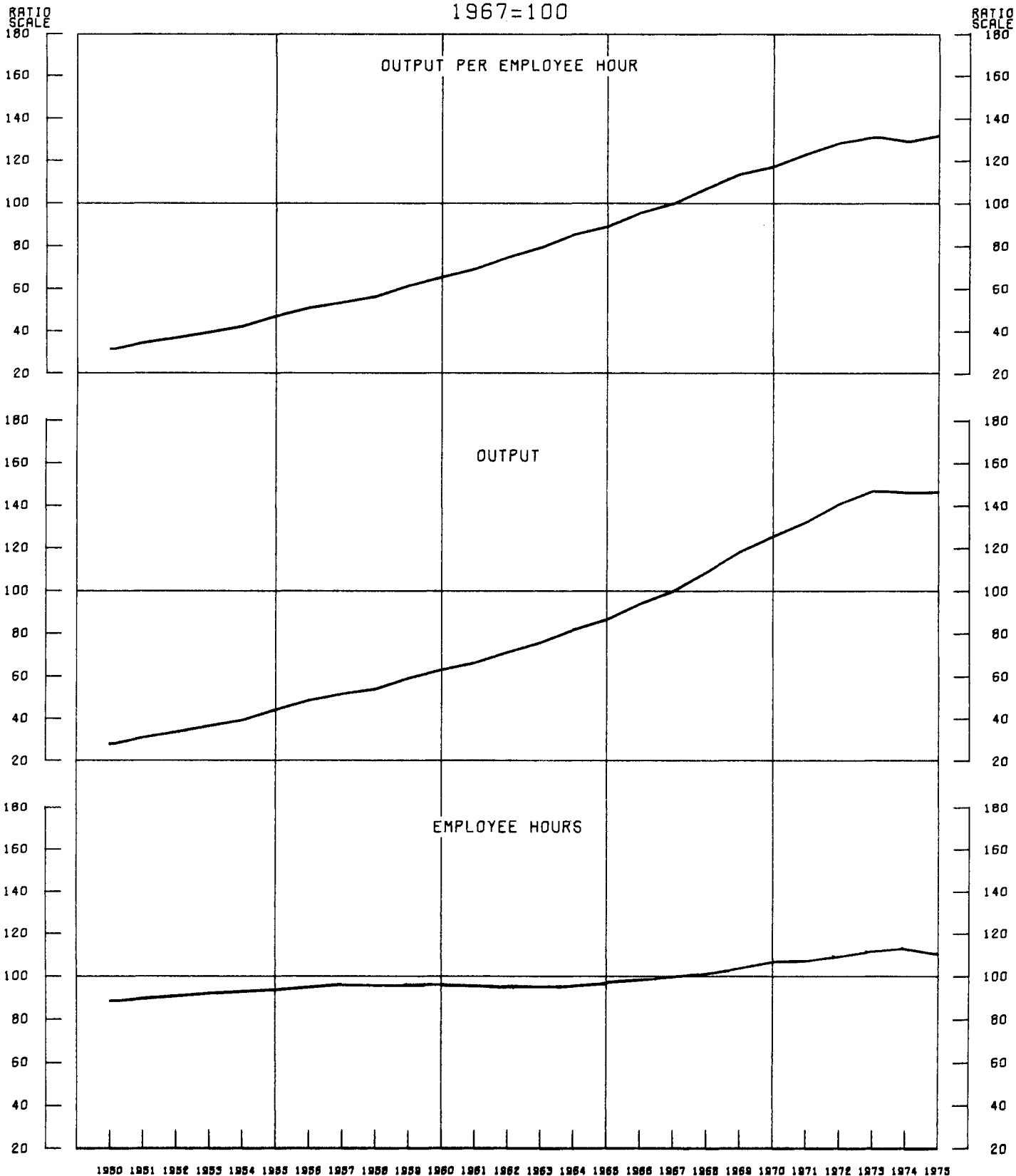
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 106  
 TELEPHONE COMMUNICATIONS (SIC 4811), 1951-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

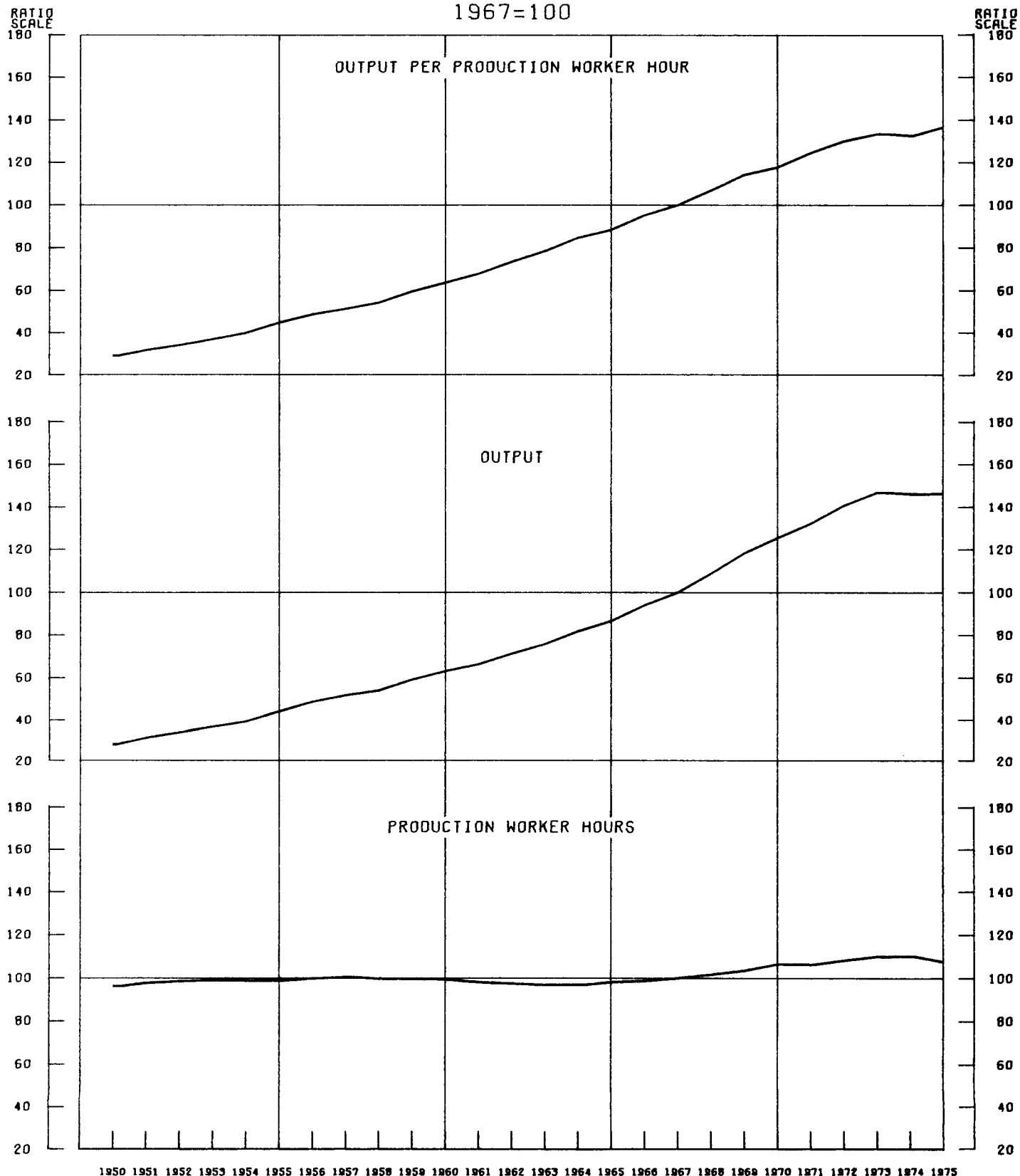
CHART 107  
 GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1950-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

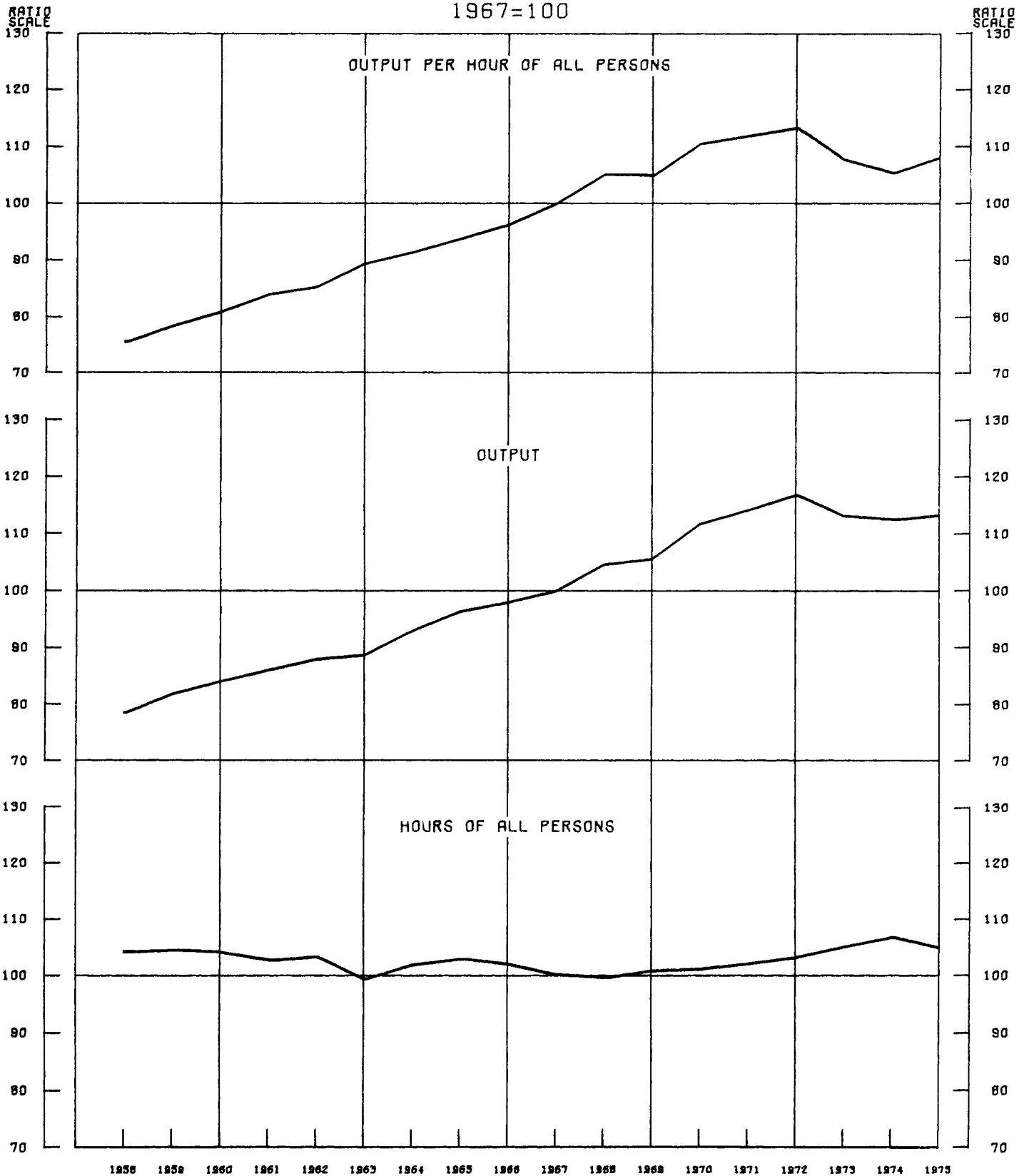


CHART 108  
 GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1950-75  
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA  
 1967=100



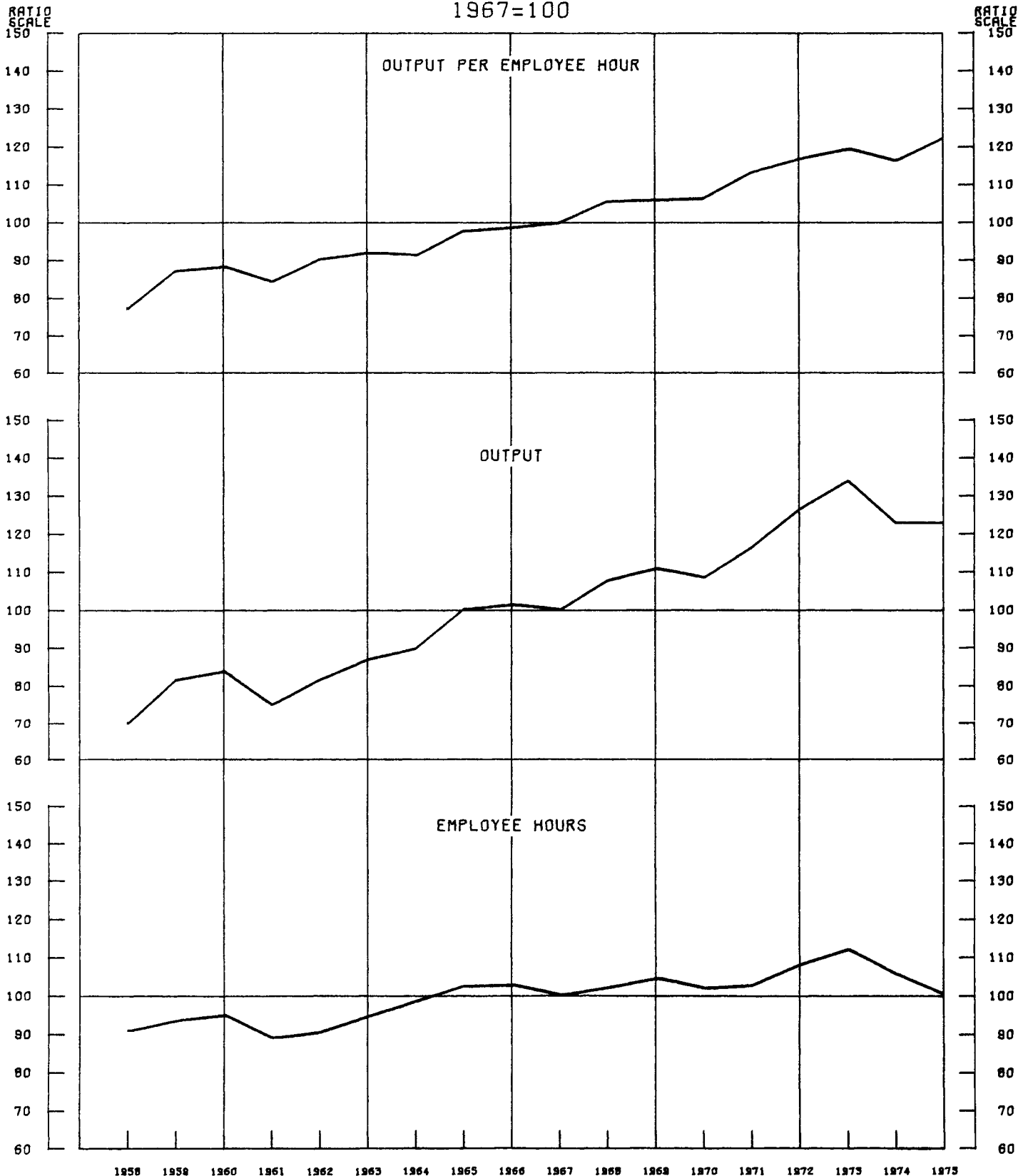
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 109  
 RETAIL FOOD STORES (SIC 54), 1958-75  
 OUTPUT PER HOUR OF ALL PERSONS AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 110  
 FRANCHISED NEW CAR DEALERS (SIC 5511). 1958-75  
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 111  
 GASOLINE SERVICE STATIONS (SIC 5541). 1958-75  
 OUTPUT PER HOUR OF ALL PERSONS AND RELATED DATA  
 1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 112  
HOTELS, MOTELS, AND TOURIST COURTS (SIC 7011), 1958-75  
OUTPUT PER HOUR OF ALL PERSONS AND RELATED DATA  
1967=100



SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

# Recent BLS Publications on Productivity and Technology

## Productivity trends in individual industries and the Federal Government

- "Output Per Hour of All Persons in Retail Food Stores," by John L. Carey and Phyllis Flohr Otto, Monthly Labor Review, January 1977.
- "Productivity in Franchised New Car Dealers," by John Duke, Monthly Labor Review, January 1977.
- "Output Per Employee-Hour Measures: Industries and the Federal Government," reprint of Chapter 31 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1910, 1976, pp. 225-232.
- "Productivity in the Nonmetallic Minerals Industry, 1954-75," by Clyde Huffstutler and Michael Broad, Monthly Labor Review, June 1976, pp. 25-30.
- "Productivity in the Copper Rolling and Drawing Industry," by Phyllis Flohr Otto, Monthly Labor Review, December 1975, pp. 27-30.
- "Productivity in Structural Clay Products," by Clyde Huffstutler and Michael M. Broad, Monthly Labor Review, October 1975, pp. 29-33.
- "Productivity in Hotels and Motels, 1958-73," by James A. Urisko, Monthly Labor Review, May 1975, pp. 24-28.
- "Productivity in Gasoline Stations, 1958-73," by Brian L. Friedman and John L. Carey, Monthly Labor Review, February 1975, pp. 32-36.
- "Measuring Productivity in the Federal Government," by Charles Ardolini and Jeffrey Hohenstein, Monthly Labor Review, November 1974, pp. 13-20. Reprint 3009.
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- "Trends in Output Per Man-Hour in the Sugar Industry," by John W. Ferris, Jr., and Hazen F. Gale, Monthly Labor Review, July 1970, pp. 32-34. Reprint 2680.

#### Productivity and other economic trends

- Productivity and Costs in the Private Economy (quarterly press release).
- Productivity and Costs in Nonfinancial Corporations (quarterly press release).
- "Productivity Measures: Private Economy and Major Sectors," reprint of Chapter 30 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1910, 1976, pp. 219-224.
- "Productivity and Costs in the Private Economy, 1975," by J. R. Norsworthy and L. J. Fulco, Monthly Labor Review, May 1976, pp. 3-11.
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- Current Developments in Productivity, 1973-74 (Statement delivered by Assistant Commissioner Mark before the Senate Government Operations Committee on December 17, 1974) BLS Report 436, 1975.
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#### Technology studies

- "Technological Change," reprint of Chapter 32 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1910, 1976, pp. 233-237.
- Technological Change and Manpower Trends in Five Industries, BLS Bulletin 1856, 1975.\*
- The Revised Workweek: Results of a Pilot Study of 16 Firms, BLS Bulletin 1846, 1975.\*
- Technological Change and Manpower Trends in Six Industries, BLS Bulletin 1817, 1974.\*

- Outlook for Technology and Manpower in Printing and Publishing,  
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- "Modernization and Manpower in Textile Mills," by Rose N. Zeisel,  
Monthly Labor Review, June 1973, pp. 18-25. Reprint 2893.
- Railroad Technology and Manpower in the 1970's, BLS Bulletin 1717,  
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- "New Technology in Laundry and Cleaning Services," by Mary L.  
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- Improving Productivity: Labor and Management Approaches,  
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- "Technology and Manpower in Nonelectrical Machinery," by Lloyd T.  
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- Outlook for Computer Process Control, BLS Bulletin 1658, 1970.\*
- "Manpower Implications of Computer Control in Manufacturing," by  
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#### Construction labor requirements

- "Construction Labor Requirements," reprint of Chapter 33 of the  
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1976, pp. 238-240.
- Labor and Material Requirements for Private Multifamily Housing  
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- "Labor and Materials Required for Highway Construction," by  
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- "Labor and Material Requirements for Apartment Construction," by  
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- Labor and Material Requirements for Public Housing Construction,  
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- "Labor and Materials Required for Highway Construction," by  
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- Labor and Material Requirements for Construction of Private Single-  
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- "Labor Requirements for Public Housing," by Joseph T. Finn,  
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- Labor and Material Requirements for Hospital and Nursing Home  
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#### International comparisons

- "Foreign Labor Statistics and Trade Research," reprint of Chapter 34  
of the Handbook of Methods for Surveys and Studies, BLS  
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- "Unemployment Compensation in Eight Industrial Nations," by  
Constance Sorrentino, Monthly Labor Review, July 1976, pp. 18-24.
- "International Comparisons of Productivity and Unit Labor Cost  
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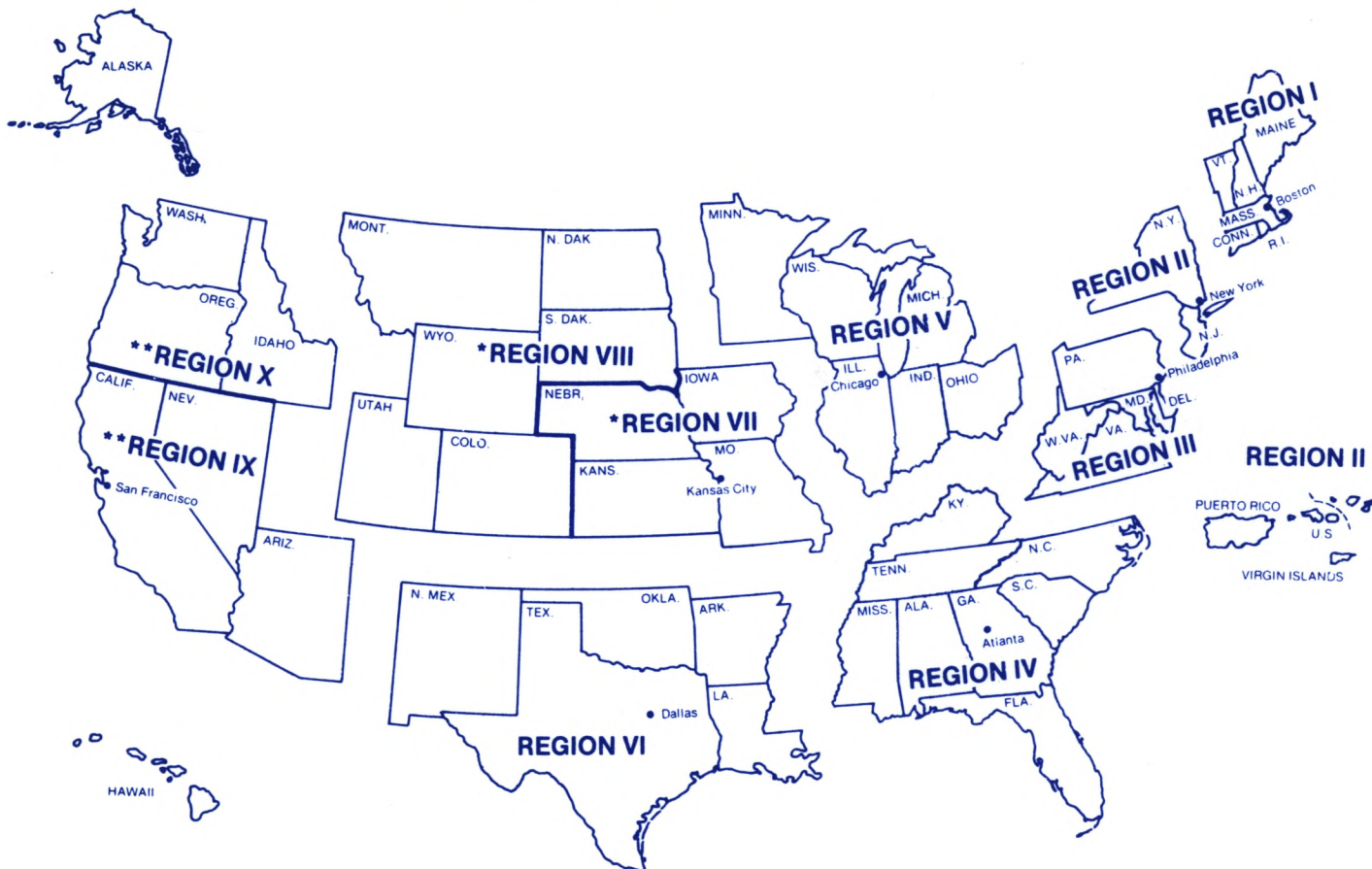


- "International Labor Comparisons: Programs to Deal With Unemployment, and International Comparisons of Compensation and Productivity," Chapter 3 of the International Economic Report of the President, March 1976, pp. 68-79, 139, 141, 143-145.
- "Productivity and Unit Labor Costs in the United States and Abroad," by Patricia Capdeville and Arthur Neef, Monthly Labor Review, July 1975, pp. 28-32.
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- Productivity: An International Perspective, BLS Bulletin 1811, 1974, 81 pages.\*
- "Comparing Employment Shifts in 10 Industrialized Countries," by Constance Sorrentino, Monthly Labor Review, October 1971, pp. 3-9.

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