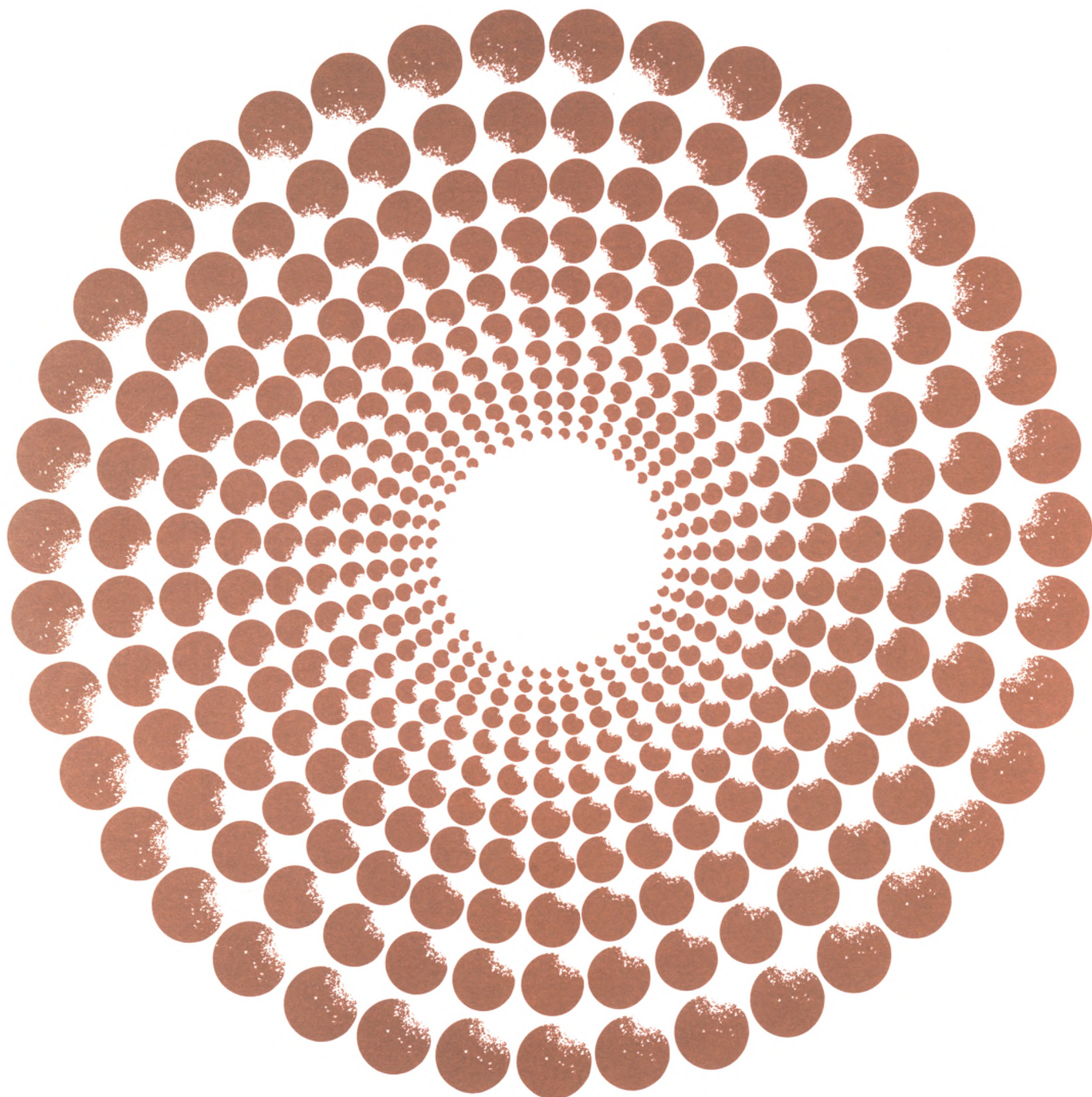


Productivity Indexes for Selected Industries, 1977 Edition



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

Bulletin 1983



Productivity Indexes for Selected Industries, 1977 Edition

U.S. Department of Labor
Ray Marshall, Secretary
Bureau of Labor Statistics
Julius Shiskin, Commissioner
1977

Bulletin 1983



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 1976. Indexes are published for the first time for the eating and drinking places industry. An article providing information about this new measure appears in the Monthly Labor Review, September 1977.

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.

This bulletin was prepared in the Bureau's Office of Productivity and Technology by Andrew Campbell, Richard Carnes, John Duke, Mary Farris, John Ferris, Brian Friedman, Catherine Gilbert, Ed Henneberger, Clyde Huffstutler, Phyllis Otto, Elmer Persigehl, James Urisko, Vernetta Washington, Patricia Wilder, and James York under the direction of Horst Brand, John Carey, Arthur Herman, and Charles Ardolini, Chief, Division of Industry Productivity Studies.

Material in this publication is in the public domain and may be reproduced without the permission of the Federal Government. Please credit the Bureau of Labor Statistics and cite the name and number of the publication.

Contents

	<u>Page</u>
HIGHLIGHTS OF TRENDS IN OUTPUT PER EMPLOYEE-HOUR.....	1
TABLE 1. Selected Industries: 1976 employment, and average annual rates of change in output per employee-hour, 1971-76.....	5
CHART 1. Growth in output per employee-hour in selected industries, 1971-76.....	6
METHODS AND DATA.....	7
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA, BY INDUSTRY:	
Tables.....	11
Charts.....	133
RECENT BLS PUBLICATIONS ON PRODUCTIVITY AND TECHNOLOGY.....	247

Highlights of Trends in Output Per Employee-Hour

Current Developments

Nearly all of the industries for which data are presented in this report registered increases in output per employee-hour between 1975 and 1976. Only six industries had declines in productivity in 1976; in 1975 about one-half of the industries surveyed recorded declines in productivity. This general expansion in productivity is consistent with the performance of the nonfarm business sector as a whole where productivity grew 4.1 percent in 1976, compared with 1.6 percent in 1975. Favorable industry productivity growth in 1976 was associated with the general economic recovery.

Motor vehicle manufacturing, one of the more economically significant industries covered in this report, posted a substantial 9.1-percent advance in productivity. All segments of the industry rebounded sharply from the 1974-75 recession, recording an overall 26.9-percent jump in output in 1976, while total employee-hours rose 16.3 percent. The strong productivity gain was similar to advances occurring in earlier economic recovery years, during which output also rose sharply.

Productivity in the steel industry increased by 7.3 percent in 1976. This performance was in sharp contrast to 1975 when output per employee-hour fell by 12.1 percent in the industry. Although production began to decline during the latter part of 1976, for the year as a whole the industry's output was up 8.1 percent over 1975. Much of this output growth was due to the motor vehicle industry's strong demand for steel products. Although steel industry employment dropped slightly, a more than offsetting increase in average weekly hours resulted in a small gain in employee-hours of 0.8 percent.

Significant gains in productivity were recorded by a number of other manufacturing industries. The aluminum rolling and drawing industry posted slightly more than a 19-percent gain while the primary copper, lead, and zinc industry and the tire and inner tube industry each experienced increases of about 14 percent. Increases in output per employee-hour of about 10 percent were posted by the sugar and the bottled and canned soft drinks industries. Both the malt beverage and the copper rolling and drawing industries had increases in productivity of slightly more than 9 percent.

Short-term gains in productivity usually are associated with increases in output. This was the case in 1976, when output increases occurred in all but 4 of the industries studied. In a number of the larger manufacturing industries, sharp gains occurred in both output and productivity. In the paper and pulp industry, for example, output grew by 15.1 percent as

demand picked up due to the expansion of the economy and restoring of depleted inventories by customers. This large output increase, combined with a 6.5-percent gain in employee-hours, resulted in an 8.0-percent increase in productivity. The output of the gray iron foundries industry grew by 8.7 percent in 1976 as the auto, steel, and new housing markets rebounded, and productivity increased 5.7 percent. In sawmills, productivity was up 5.3 percent as output increased 16.3 percent, for the most part in response to the sharp recovery in new housing starts. Productivity in the petroleum refining industry grew 4.5 percent while output increased 7.9 percent.

Among the transportation industries, air transportation recorded a 9.0-percent advance in productivity, and railroads an increase of 4.2 percent. Output increases in these two industries were due to the pickup in economic activity in 1976; output had declined in the previous year. Petroleum pipelines recorded a very small productivity gain of 0.3 percent in 1976.

With the exception of copper mining, which experienced a large productivity gain of 17.3 percent, declines in productivity were recorded in all of the mining industries measured. Coal mining recorded its eighth consecutive annual decline in productivity, which dropped 4.0 percent in 1976. Although output increased by 2.6 percent, production worker hours increased by 6.8 percent. Declines of 2.0 percent in productivity were experienced by both the iron mining and nonmetallic minerals industries.

Among other nonmanufacturing industries, large productivity increases occurred in telephone communications -- 10.5 percent -- and gasoline service stations -- 9.8 percent. The hotels and motels industry and new car dealers both experienced productivity gains of 4.9 percent; for gas and electric utilities, the gain was 3.7 percent. Eating and drinking places recorded a decline in productivity of 1.7 percent.

Accompanying the widespread gains in output was a marked improvement in the employment situation in 1976; more than two-thirds of the industries recorded increases. This is in sharp contrast to 1975 when about the same proportion of the industries had declines in employment. One key example is the motor vehicle industry where employment increased 9.9 percent in 1976, compared with a drop of 13.1 percent in 1975. Other industries with large employment gains in 1976 included primary aluminum -- 12.2 percent -- copper rolling and drawing -- 10.3 percent -- and aluminum rolling and drawing -- 9.0 percent. All of these industries posted employment declines in 1975.

Long-term Trends

All of the industries for which data are available experienced productivity growth over the long-term period 1950-76. Increases (at average annual rates) ranged from a high of 6.7 percent for air transportation to a low of 1.0 percent for footwear manufacturing. The high growth rate for air transportation can be largely attributed to the replacement of piston-driven planes by jet aircraft, thereby increasing the speed, capacity, and range of the industry's fleet. Footwear manufacturing, on the other hand, has had a low rate of productivity growth because of the slow development and introduction of automatic equipment which can handle changing styles and the large number of shoe sizes. In the more recent period, 1971-76, the range of industry productivity growth rates was wider than in the longer term -- from an annual growth of 11.2 percent for the hosiery industry to a decline of 4.5 percent for bituminous coal and lignite mining. (See table 1 and chart 1)

Almost three-fourths of the industries recorded lower average annual gains in output per employee-hour in the 1971-76 period than in the preceding period -- (1950-71 for many of the industries). The experience of these industries matched the productivity record of the nonfarm business sector of the economy as a whole. From 1950 to 1971 output per hour of all persons in the nonfarm business sector grew 2.5 percent per year, while from 1971 to 1976 the annual growth was only 1.0 percent.

Of the industries which experienced higher average annual productivity growth during the 1971-76 period than in the earlier period, several were significantly above the rate for the nonfarm business sector. The hosiery industry was highest with 11.2 percent. Recent advances in hosiery knitting machine speeds, automated dying techniques, and new packaging equipment have contributed to the significant advances in output per employee-hour for the hosiery industry. Other industries with very high rates included wet corn milling, 8.3 percent; malt beverages, 7.1 percent; synthetic fibers, 6.1 percent; aluminum rolling and drawing, 5.3 percent; and telephone communications, 7.3 percent. With the exception of telephone communications, all experienced increases in output and declines in employee-hours over the 5-year period. Telephone communications had a very high rate of gain in output -- 7.5 percent -- and a small gain in employee-hours -- 0.2 percent.

On the other hand, several industries experienced productivity declines during the 1971-76 period. Productivity in the coal mining industry dropped the most -- 4.3 percent per year. Among the reasons for the productivity decline in coal mining were more stringent safety regulations, the impact of work stoppages, labor contract provisions requiring extra personnel, and the recent hiring of new, inexperienced employees. Declines in productivity were also recorded by the copper rolling and drawing industry -- down 2.6 percent a year -- and in the iron mining industry, which experienced a 2.1-percent annual decline. Other industries which had declining average annual

rates in productivity over this period were hydraulic cement, retail food stores, cereal breakfast foods, and blended and prepared flour. (For a graphic presentation of the long-term trends in output per employee-hour and related data for the selected industries, see charts 2-113.)

New Measure

Eating and Drinking Places (SIC 58) -- Productivity in eating and drinking establishments rose at an average annual rate of 1.0 percent between 1958 and 1976. The increase in productivity was the result of a 3.1-percent average annual gain in output and a 2.1-percent increase in hours. During the same period, the nonfarm business sector as a whole averaged a 2.2-percent productivity advance.

Factors that have contributed to the advance of productivity in this industry are the spread of modern management techniques and improved work organization, particularly in the rapidly expanding fast food segment of the industry. Menus have been simplified and standardized, and menu items are increasingly prepared off the premises, reducing on-premise employee-hour requirements. Layouts of establishments are designed to minimize walking time of personnel. Technological innovations, such as the microwave oven, reduce cooking time. Finally, the decline in the number of single-unit drinking establishments (usually proprietorships and partnerships which are often marginal enterprises), has resulted in an increase in productivity for the industry as a whole.

There was an increase in spending for meals and snacks eaten away from home which was accompanied by a shift from full-service restaurants to fast-food establishments. This shift has given rise to consumption of lower priced meals and greater frequency of eating out.

Employment in eating and drinking places (currently 3.7 million) doubled between 1958 and 1976, rising at an average annual rate of 3.9 percent. Employment growth, like that of output, was comparatively slow between 1958 and 1963 (1.7 percent annually), but accelerated from 1964 forward to an annual rate of 4.6 percent.

Productivity in eating and drinking places should continue to improve. The adoption of laborsaving equipment and the preparation of food off the premises are likely to be spurred by the expansion of corporate establishments with their focus on efficient management. The continued decline in the number of smaller, marginal firms, while perhaps a loss in terms of customer convenience, will nonetheless help raise industry productivity.

TABLE 1. SELECTED INDUSTRIES: 1976 EMPLOYMENT AND AVERAGE ANNUAL RATES OF CHANGE IN OUTPUT PER EMPLOYEE-HOUR, 1971-76

SIC Code	Industry	1976 employment (thousands)			Output per employee-hour: Average annual rate of change (percent) 1/		
		All employees	Production workers	Non-production workers	1971-76		
					All employees	Production workers	Non-production workers 2/
<u>Mining</u>							
1011	Iron mining, crude ore-----	25	20	5	(3/)	-1.1	(3/)
1011	Iron mining, usable ore-----	25	20	5	(3/)	-2.1	(3/)
1021	Copper mining, crude ore-----	36	27	9	(3/)	4.2	(3/)
1021	Copper mining, recoverable metal-----	36	27	9	(3/)	0.3	(3/)
111,121	Coal mining-----	214	183	31	(3/)	-4.3	(3/)
121	Bituminous coal and lignite mining-----	210	179	31	(3/)	-4.5	(3/)
14	Nonmetallic minerals-----	115	91	24	(3/)	0.3	(3/)
142	Crushed and broken stone-----	40	32	8	(3/)	1.9	(3/)
<u>Manufacturing</u>							
203	Canning and preserving-----	299	250	49	4/ 2.7	4/ 2.7	4/ (2.6)
204	Grain mill products-----	144	100	44	4/ 2.3	4/ 2.4	4/ (2.1)
2041	Flour and other grain mill products-----	27	19	8	1.4	2.0	(-0.4)
2043	Cereal breakfast foods-----	16	13	3	4/ -0.5	4/ 1.0	4/ (2.1)
2044	Rice milling-----	5	4	1	4/ 1.8	4/ 0.5	4/ (5.8)
2045	Blended and prepared flour-----	9	7	2	4/ -0.2	4/ -0.1	4/ (-0.5)
2046	Wet corn milling-----	12	9	3	4/ 8.3	4/ 7.2	4/ (11.0)
2047,48	Prepared feeds for animals and fowls-----	74	49	25	4/ 2.4	4/ 2.9	4/ (1.2)
205	Bakery products-----	241	139	102	0.7	1.6	(-0.8)
2061,62,63	Sugar-----	35	27	8	0.3	1.1	(-2.8)
2065	Candy and confectionery products-----	57	44	13	3.8	4.7	(0.4)
2082	Malt beverages-----	47	33	14	7.1	5.1	(11.9)
2086	Bottled and canned soft drinks-----	132	48	84			
2111,21,31	Tobacco products--total-----	60	49	11	1.6	2.4	(-3.1)
2111,31	Cigarettes, chewing and smoking tobacco-----	49	40	9	1.8	2.5	(-2.7)
2121	Cigars-----	10	9	1	1.9	2.0	(-0.1)
2251,52	Hosiery-----	73	65	8	11.2	11.1	(11.6)
2421	Sawmills and planing mills, general-----	179	158	21	0.4	0.6	(-0.9)
2611,21,31,61	Paper, paperboard, and pulp mills-----	270	208	62	2.0	2.5	(-0.2)
2653	Corrugated and solid fiber boxes-----	101	75	26	4.6	5.7	(1.7)
2823,24	Synthetic fibers-----	105	73	32	6.1	7.4	(2.2)
2834	Pharmaceutical preparations-----	134	65	69	3.6	4.3	(3/)
2851	Paints and allied products-----	66	36	30	3.4	4.5	(2.1)
2911	Petroleum refining-----	157	98	59	2.4	2.1	(3.1)
3011	Tires and inner tubes-----	98	66	32	1.9	3.3	(-2.3)
314	Footwear-----	170	148	22	0.3	0.4	(-0.8)
3221	Glass containers-----	77	68	9	3.0	2.9	(3.6)
3241	Hydraulic cement-----	30	23	7	-1.6	-1.5	(-1.7)
325	Structural clay products-----	48	38	10	1.6	1.5	(2.0)
3251,53,59	Clay construction products-----	35	28	7	0.8	0.9	(0.9)
3255	Clay refractories-----	13	10	3	4.0	3.1	(6.7)
3271,72	Concrete products-----	(3/)	(3/)	(3/)	4/ 0.5	4/ 0.8	4/ (-0.5)
3273	Ready-mixed concrete-----	82	(3/)	(3/)	4/ 1.9	(3/)	(3/)
331	Steel-----	543	424	119	1.3	1.8	(-0.4)
3321	Gray iron foundries-----	139	116	23	2.6	3.0	(0.5)
3324,25	Steel foundries-----	58	46	12	3.3	3.2	(3.9)
3331,32,33	Primary copper, lead, and zinc-----	22	17	5	1.4	2.6	(-3.6)
3334	Primary aluminum-----	33	26	7	-1.8	-1.4	(-3.1)
3351	Copper rolling and drawing-----	36	27	9	-2.6	-1.7	(-5.6)
3353,54,55	Aluminum rolling and drawing-----	60	44	16	5.3	5.5	(4.6)
341	Metal cans-----	63	54	9	2.4	3.0	(-1.2)
3631,32,33,39	Major household appliances-----	84	67	17	3.2	3.5	(1.9)
3651	Radio and television receiving sets-----	129	94	35	1.8	2.8	(-1.4)
371	Motor vehicles and equipment-----	851	662	189	2.7	2.8	(2.4)
<u>Other</u>							
401, Class I	Railroads, revenue traffic-----	511	446	65	2.9	3.2	1.4
401, Class I	Railroads, car-miles-----	511	446	65	1.2	1.5	-0.3
4213 PT.	Intercity trucking-----	626	(3/)	(3/)	4/5/ 1.3	(3/)	(3/)
4213 PT.	Intercity trucking, general freight-----	413	(3/)	(3/)	(3/)	(3/)	(3/)
4511	Air transportation-----	301	(3/)	(3/)	5/ 3.8	(3/)	(3/)
4612,13	Petroleum pipelines-----	17	6/ 12	(3/)	3.9	6/ 4.8	(3/)
4811	Telephone communications-----	943	(3/)	(3/)	7.3	(3/)	(3/)
491,92,93	Gas and electric utilities-----	669	6/ 554	7/ 115	1.7	6/ 2.4	(3/)
54	Retail food stores 8/-----	2,340	(3/)	(3/)	-1.3	(3/)	(3/)
5511	Franchised new car dealers-----	754	(3/)	(3/)	2.1	(3/)	(3/)
5541	Gasoline service stations 8/-----	821	(3/)	(3/)	3.2	(3/)	(3/)
58	Eating and drinking places 8/-----	3,976	(3/)	(3/)	0.2	(3/)	(3/)
7011	Hotels, motels, and tourist courts 8/-----	968	(3/)	(3/)	1.9	(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/ 1971-75.

5/ Output per employee.

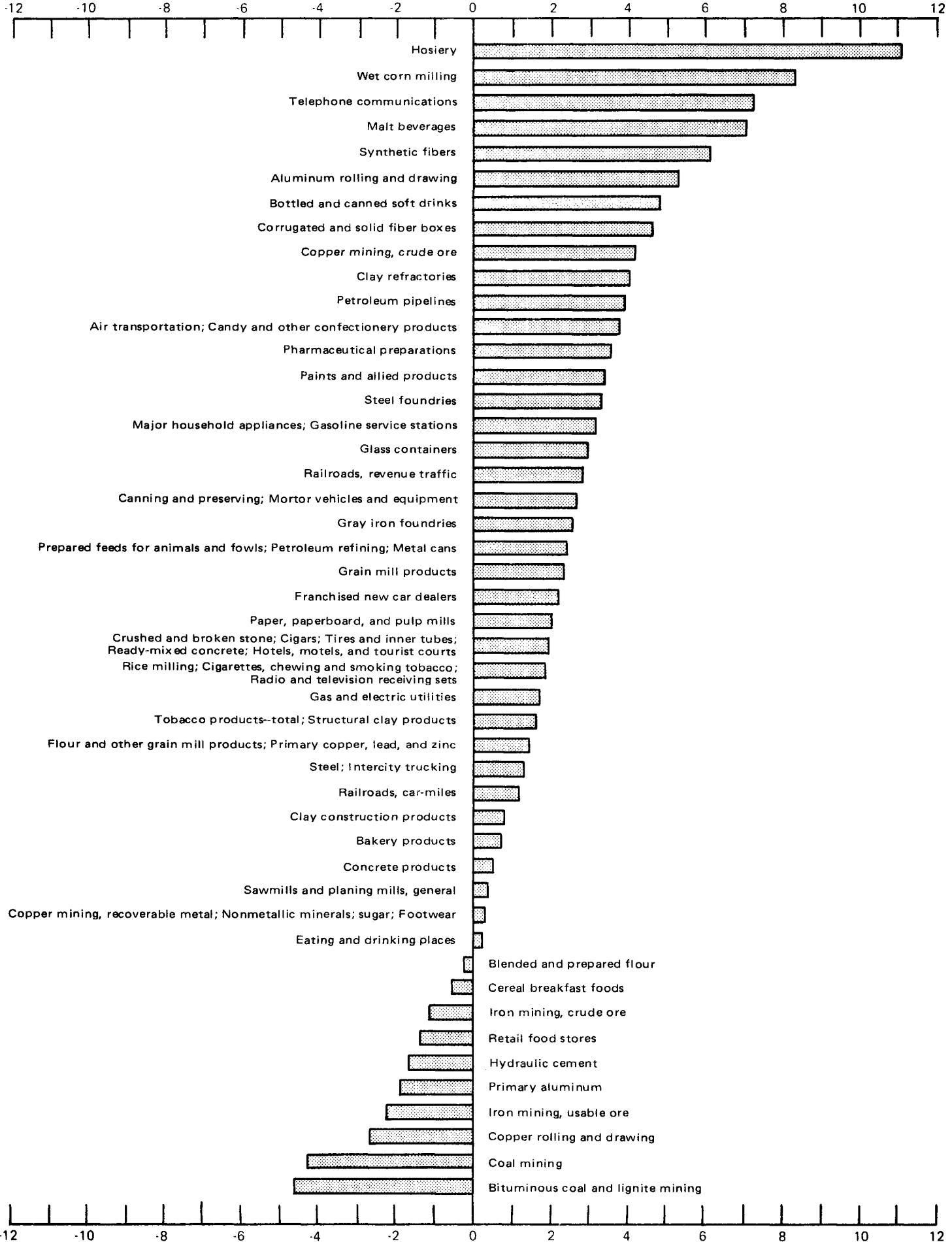
6/ Nonsupervisory personnel.

7/ Supervisory personnel and force account construction workers.

8/ Data relate to all persons.

Chart 1. Growth in Output per Employee-Hour in Selected Industries, 1971-76

Average annual percent change



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 1972-76, 1972 weights. For three industries -- railroads, iron mining, and copper mining -- two alternative productivity measures, using different concepts of industry output, are presented.

The output measure for usable iron ore (SIC 1011) has been revised. In earlier bulletins, the output index was based on the total number of long tons of usable ore produced as published by the Bureau of Mines, U.S. Department of the Interior and by the Bureau of the Census. Now detailed information on the production of various types of usable ore, such as concentrates and iron ore pellets made from taconite, has been incorporated into the output measure.

Several changes have also been made in the methods used to develop the output and employee-hour indexes for class I railroads (SIC 401). In earlier bulletins, the revenue traffic output index was developed by combining freight ton-miles and passenger-miles with unit revenue weights. The unit revenue weights have been replaced with unit labor cost weights because they provide a better indication of the relative labor time required to provide freight and passenger service. For the first time, the output index also incorporates detailed commodity statistics in order to give those products that require more labor time more importance in the index.

In addition to these changes, the measure of employee-hours for railroads was revised to exclude the Interstate Commerce Commission (ICC) category of "constructive allowances including vacations and allowances." This category includes time paid for but not worked and is not consistent with the other railroad employment categories used in the hours index.

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 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. 2/ 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,

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

2/ The term "production workers" covers 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., are identified as "nonproduction workers."

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 four "service" industries -- retail food stores; gasoline service stations; eating and drinking places; 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.

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 1976 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 1976 indexes were developed by linking employment and employee-hour data from BLS, since 1976 Census data are not yet available. Therefore, all 1976 output per employee-hour measures are considered preliminary and are subject to revision.

The indexes refer to the standard reference base 1967=100 and, beginning in 1972, conform to the 1972 Standard Industrial Classification (SIC) system.

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

Tables—Continued

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

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 ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	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.....	117.0	117.3	119.5	109.3
1976 ^{3/}	113.9	113.9	116.5	104.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)				
1950-76.....	5.0	4.7	5.0	3.5
1971-76.....	-1.1	0.1	0.1	0.0

^{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/} 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		EMPLOYEES	
		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.....	118.8	101.5	101.3	99.4	108.7
1976 <u>2/</u>	118.5	104.0	104.0	101.7	113.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	2.4	-2.5	-2.3	-2.5	-1.1
1971-76.....	2.4	3.6	2.3	2.3	2.4

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> <u>2/</u>		OUTPUT PER EMPLOYEE <u>1/</u> <u>2/</u>		
	PRODUCTION WORKERS		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	42.9		(3/)	40.2	(3/)
1947.....	48.5		55.9	49.6	111.5
1948.....	48.6		56.8	50.8	105.2
1949.....	47.4		52.0	47.6	82.4
1950.....	50.9		56.9	52.3	86.9
1951.....	55.3		63.6	58.6	94.7
1952.....	52.5		60.6	57.4	77.0
1953.....	54.8		61.1	57.7	79.3
1954.....	48.3		46.7	45.1	54.2
1955.....	63.4		64.2	62.9	69.5
1956.....	63.4		61.5	61.9	60.3
1957.....	64.0		60.8	61.7	57.2
1958.....	60.1		49.5	52.8	39.9
1959.....	59.9		51.1	54.8	40.1
1960.....	66.8		63.1	64.5	58.0
1961.....	71.6		63.7	67.0	53.5
1962.....	75.5		69.8	72.8	60.0
1963.....	82.9		76.9	78.1	72.2
1964.....	91.8		88.7	88.7	88.7
1965.....	92.2		91.0	90.3	93.7
1966.....	97.5		98.4	98.0	99.6
1967.....	100.0		100.0	100.0	100.0
1968.....	108.3		106.6	107.4	103.9
1969.....	112.2		108.8	110.9	101.4
1970.....	112.6		110.5	112.3	104.4
1971.....	112.4		106.4	108.3	99.8
1972.....	118.8		113.8	116.7	103.7
1973.....	119.9		120.5	122.0	114.6
1974.....	108.7		111.2	112.7	106.2
1975.....	107.0		107.2	109.3	99.9
1976 <u>4/</u>	104.9		104.9	107.3	96.5
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)				
1950-76.....	3.7		3.5	3.8	2.3
1971-76.....	-2.1		-0.9	-0.9	-1.0

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/ Series revised to incorporate additional data from economic censuses.

3/ Not available.

4/ Preliminary.

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

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

YEAR	OUTPUT <u>1/</u>	EMPLOYEE-HOURS	EMPLOYEES		
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	45.6	106.3	(2/)	113.4	(2/)
1947.....	82.4	170.0	147.4	166.1	73.9
1948.....	89.2	183.7	157.1	175.7	84.8
1949.....	75.3	158.7	144.7	158.3	91.4
1950.....	86.9	170.8	152.6	166.1	100.0
1951.....	103.0	186.4	161.9	175.7	108.8
1952.....	87.1	165.8	143.8	151.7	113.1
1953.....	105.2	192.1	172.2	182.3	132.6
1954.....	70.7	146.5	151.4	156.7	130.5
1955.....	93.7	147.7	146.0	148.9	134.9
1956.....	91.8	144.9	149.2	148.4	152.2
1957.....	100.8	157.4	165.9	163.4	176.2
1958.....	66.0	109.8	133.2	125.0	165.3
1959.....	59.4	99.1	116.3	108.3	148.0
1960.....	88.3	132.1	139.9	136.8	152.2
1961.....	72.2	100.8	113.3	107.8	134.9
1962.....	74.4	98.5	106.6	102.2	124.0
1963.....	78.6	94.8	102.2	100.7	108.8
1964.....	90.7	98.8	102.2	102.2	102.2
1965.....	95.8	103.9	105.3	106.1	102.2
1966.....	101.8	104.4	103.5	103.9	102.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	106.2	98.1	99.6	98.9	102.2
1969.....	110.2	98.2	101.3	99.4	108.7
1970.....	113.5	100.8	102.7	101.1	108.7
1971.....	104.1	92.6	97.8	96.1	104.3
1972.....	99.2	83.5	87.2	85.0	95.7
1973.....	114.6	95.6	95.1	93.9	100.0
1974.....	110.8	101.9	99.6	98.3	104.3
1975.....	108.6	101.5	101.3	99.4	108.7
1976 <u>3/</u>	109.1	104.0	104.0	101.7	113.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	1.1	-2.5	-2.3	-2.5	-1.1
1971-76.....	1.4	3.6	2.3	2.3	2.4

1/ Series revised to incorporate additional data from economic censuses.

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, U.S. Department of Commerce. Employment and hours based on data from the Bureau of the Census, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

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 ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	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.....	128.9	123.7	122.9	125.9
1976 ^{3/}	153.2	149.0	149.2	148.5
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)			
1950-76.....	4.5	3.8	4.0	3.1
1971-76.....	4.2	2.2	2.7	0.8

^{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 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	EMPLOYEES		
		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.....	201.8	156.5	163.2	164.2	160.3
1976 <u>3/</u> ...	233.0	152.1	156.4	156.2	156.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	4.9	0.4	1.1	0.9	1.7
1971-76.....	3.1	-1.1	0.9	0.4	2.3

1/ Represents output in terms of copper ore 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 ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	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.....	96.4	92.5	91.9	94.1
1976 ^{3/}	113.1	110.0	110.2	109.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)				
1950-76.....	2.3	1.6	1.8	1.0
1971-76.....	0.3	-1.6	-1.1	-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. 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 ^{1/}	EMPLOYEE-HOURS		EMPLOYEES	
		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.....	150.9	156.5	163.2	164.2	160.3
1976 ^{3/}	172.1	152.1	156.4	156.2	156.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	2.8	0.4	1.1	0.9	1.7
1971-76.....	-0.7	-1.1	0.9	0.4	2.3

^{1/} Represents output in terms of 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 10. COAL MINING SIC 111, 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.....	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.....	74.9	71.9	73.1	64.1
1976 <u>2/</u>	71.9	69.4	70.5	62.2
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)			
1950-76.....	3.6	3.9	4.3	1.3
1971-76.....	-4.3	-4.6	-5.1	-2.1

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/ 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	EMPLOYEES		
		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.....	109.5	146.2	152.4	149.8	170.9
1976 ^{1/}	112.3	156.2	161.9	159.3	180.6
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	0.5	-3.0	-3.3	-3.6	-0.8
1971-76.....	3.1	7.8	8.1	8.7	5.3

^{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 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 ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	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	25.8	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.....	74.7	71.1	72.5	62.9
1976 ^{2/}	71.4	68.7	69.9	61.1
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)			
1950-76.....	3.7	3.9	4.3	1.3
1971-76.....	-4.5	-4.8	-5.3	-2.1

^{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/} 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	EMPLOYEES		
		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.....	112.4	150.5	158.0	155.1	178.7
1976 1/	115.2	161.3	167.8	164.8	188.4
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	1.1	-2.4	-2.7	-3.0	-0.1
1971-76.....	3.4	8.2	8.6	9.1	5.6

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 ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	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.....	127.5	126.5	128.9	117.6
1974.....	124.8	120.5	124.1	108.3
1975.....	122.5	112.4	118.4	94.4
1976 ^{2/}	120.0	112.2	117.8	95.2
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)			
1954-76.....	3.7	3.2	3.7	1.1
1971-76.....	0.3	-1.2	-0.2	-4.2

^{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/} 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	EMPLOYEES		
		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.....	125.2	98.2	99.0	97.1	106.5
1974.....	121.9	97.7	101.2	98.2	112.6
1975.....	109.3	89.2	97.2	92.3	115.8
1976 ^{1/}	109.1	90.9	97.2	92.6	114.6
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1954-76.....	3.0	-0.6	-0.2	-0.6	1.8
1971-76.....	-0.5	-0.8	0.7	-0.3	3.9

^{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 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.....	139.5	135.9	141.8	112.8
1974.....	136.9	129.7	136.9	103.0
1975.....	137.6	120.4	129.4	89.8
1976 <u>2/</u>	133.6	119.5	127.1	92.4
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)			
1958-76.....	4.0	3.6	4.1	1.7
1971-76.....	1.9	-0.2	0.7	-3.7

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	EMPLOYEES		
		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.....	137.8	98.8	101.4	97.2	122.2
1974.....	135.8	99.2	104.7	99.2	131.9
1975.....	118.5	86.1	98.4	91.6	131.9
1976 ^{1/}	116.8	87.4	97.7	91.9	126.4
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	3.5	-0.5	-0.1	-0.6	1.8
1971-76.....	0.2	-1.6	0.4	-0.5	4.0

^{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 <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/)	46.3	(3/)	(3/)	44.9	(3/)
1947.....	54.8	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.....	85.8	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.....	94.9	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.....	112.6	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.....	122.9	125.4	(108.0)	121.3	123.1	110.0
1975 <u>4/</u>	124.3	127.0	(108.1)	121.4	123.1	110.3
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1950-75.....	2.8	2.9	(2.4)	2.9	3.0	2.1
1971-75.....	2.7	2.7	(2.6)	2.5	2.4	3.2

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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	126.5	102.9	100.9	(117.1)	104.3	102.8	115.0
1975 ^{3/}	122.6	98.6	96.5	(113.4)	101.0	99.6	111.2
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-75.....	3.7	0.9	0.8	(1.3)	0.8	0.7	1.6
1971-75.....	2.2	-0.5	-0.5	(-0.4)	-0.3	-0.1	-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/} Not available.

^{3/} 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 <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.....	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	(121.1)	119.7	118.1	123.1
1974.....	123.9	123.7	(124.3)	123.0	121.5	126.4
1975 <u>3/</u>	124.2	123.5	(126.2)	124.2	122.5	128.3
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1963-75.....	3.4	3.3	(3.7)	3.3	3.0	3.8
1971-75.....	2.3	2.4	(2.1)	2.6	2.6	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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	(97.5)	98.7	100.0	95.9
1974.....	125.3	101.1	101.3	(100.8)	101.9	103.1	99.1
1975 ^{2/}	126.8	102.1	102.7	(100.5)	102.1	103.5	98.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1963-75.....	3.4	0.1	0.2	(-0.2)	0.2	0.4	-0.4
1971-75.....	4.0	1.7	1.6	(1.9)	1.4	1.4	1.4

^{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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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	(52.9)	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	(121.3)	112.5	108.7	123.7
1974.....	116.2	114.3	(122.9)	113.9	110.1	125.3
1975.....	116.8	117.6	(114.3)	113.7	112.5	116.5
1976 ^{4/}	119.1	120.7	(114.7)	116.4	116.2	117.2
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	3.9	4.0	(3.6)	3.8	3.9	3.4
1971-76.....	1.4	2.0	(-0.4)	0.8	1.1	(^{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/} Not available.

^{4/} Preliminary.

^{5/} 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 23. FLOUR AND OTHER GRAIN MILL PRODUCTS SIC 2041
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	(76.9)	82.9	85.8	75.4
1974.....	96.7	83.2	84.6	(78.7)	84.9	87.8	77.2
1975.....	98.1	84.0	83.4	(85.8)	86.3	87.2	84.2
1976 3/	102.8	86.3	85.2	(89.6)	88.3	88.5	87.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	0.8	-3.0	-3.1	(-2.8)	-2.9	-3.0	-2.6
1971-76.....	1.8	0.4	-0.2	(2.2)	1.0	0.7	1.8

^{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 24. CEREAL BREAKFAST FOODS SIC 2043
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
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.....	105.3	104.0	(113.0)	109.4	108.4	113.8
1975 ^{3/}	107.7	105.8	(118.3)	114.6	113.6	119.2
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1963-75.....	1.5	1.4	(2.2)	2.0	1.9	2.2
1971-75.....	-0.5	-1.0	(2.1)	0.6	0.3	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 25. CEREAL BREAKFAST FOODS SIC 2043
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	124.6	118.3	119.8	(110.3)	113.9	114.9	109.5
1975 ^{2/}	130.5	121.2	123.3	(110.3)	113.9	114.9	109.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1963-75.....	3.6	2.0	2.1	(1.4)	1.6	1.7	1.3
1971-75.....	3.6	4.1	4.5	(1.5)	2.9	3.2	1.3

^{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 26. RICE MILLING SIC 2044
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
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.....	115.2	113.3	(111.8)	105.4	100.6	122.3
1975 ^{3/}	111.7	108.7	(124.8)	106.6	102.1	124.1
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1963-75.....	2.6	2.6	(2.5)	2.1	1.8	2.8
1971-75.....	1.8	0.5	(5.8)	0.5	-1.7	7.8

^{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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	110.1	95.6	97.2	(98.5)	104.5	109.4	90.0
1975 ^{2/}	111.7	100.0	102.8	(89.5)	104.8	109.4	90.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1963-75.....	2.0	-0.6	-0.6	(-0.5)	-0.1	0.1	-0.8
1971-75.....	4.4	2.6	3.9	(-1.3)	3.9	6.2	-3.1

^{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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	116.4	115.8	(118.7)	117.2	115.5	121.9
1975 ^{3/}	104.7	105.2	(103.3)	107.3	107.5	106.6
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1963-75.....	2.2	1.6	(3.9)	2.4	1.7	4.2
1971-75.....	-0.2	-0.1	(-0.5)	0.3	0.4	(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/} 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 29. BLENDED AND PREPARED FLOUR SIC 2045
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	86.3	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.....	121.9	104.7	105.3	(102.7)	104.0	105.5	100.0
1975 ^{2/}	117.3	112.0	111.5	(113.5)	109.3	109.1	110.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1963-75.....	3.1	0.9	1.5	(-0.8)	0.7	1.4	-1.0
1971-75.....	5.6	5.8	5.7	(6.1)	5.3	5.2	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, 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	150.6	151.6	(148.4)	150.8	151.0	150.1
1975 ^{3/}	152.7	147.2	(168.1)	154.9	148.5	171.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1963-75.....	4.6	5.1	(3.3)	4.4	4.7	3.4
1971-75.....	6.3	7.2	(11.0)	9.3	8.3	11.7

^{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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	84.2	(86.2)	85.8	85.7	86.0
1973.....	102.8	83.4	83.7	(82.5)	83.0	83.7	81.4
1974.....	118.7	78.8	78.3	(80.0)	78.7	78.6	79.1
1975 ^{2/}	119.7	78.4	81.3	(71.2)	77.3	80.6	69.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1963-75.....	2.8	-1.8	-2.2	(-0.5)	-1.5	-1.9	-0.6
1971-75.....	4.6	-3.4	-2.4	(-5.8)	-4.3	-3.4	-6.4

^{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 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 <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.....	81.7	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	114.2	(123.8)	115.9	112.3	123.4
1972.....	115.9	113.9	(120.6)	117.0	114.5	122.1
1973.....	118.5	116.1	(124.1)	123.3	121.8	126.2
1974.....	127.1	127.8	(125.7)	125.9	115.7	127.8
1975 <u>3/</u>	124.6	128.6	(128.6)	127.9	126.3	131.1
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1963-75.....	3.9	3.6	(4.6)	3.8	3.1	4.7
1971-75.....	2.4	2.9	(1.2)	2.7	2.5	1.7

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

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	110.5	112.7	(105.5)	106.2	107.5	103.7
1974.....	140.1	110.2	109.6	(111.5)	111.3	121.1	109.6
1975 ^{2/}	141.6	110.1	110.1	(110.1)	110.7	112.1	108.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1963-75.....	4.9	1.0	1.3	(0.4)	1.1	1.7	0.2
1971-75.....	4.6	2.2	1.7	(3.4)	1.8	2.1	2.9

^{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 34. BAKERY PRODUCTS SIC 205
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
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.....	113.1	115.1	(109.7)	115.7	114.4	117.9
1974.....	112.4	119.4	(103.1)	113.2	115.1	110.8
1975.....	112.7	119.6	(102.3)	113.3	115.6	110.0
1976 ^{4/}	113.9	119.9	(104.6)	114.7	115.8	112.9
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	2.4	2.7	(2.0)	2.3	2.5	2.0
1971-76.....	0.7	1.6	(-0.8)	0.3	0.8	-0.4

^{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/} 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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)	104.5	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	90.4	88.8	(93.2)	88.3	89.3	86.7
1974.....	100.9	89.4	84.5	(97.9)	89.1	87.7	91.1
1975.....	101.5	90.1	84.9	(99.2)	89.6	87.8	92.3
1976 ^{3/}	104.8	92.0	87.4	(100.2)	91.4	90.5	92.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	1.1	-1.3	-1.5	(-0.8)	-1.2	-1.3	-0.9
1971-76.....	0.7	0.1	-0.9	(1.6)	0.4	-0.1	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/} 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 36. SUGAR SIC 2061,2062,2063
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
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.....	114.0	114.2	(112.5)	118.0	117.5	120.2
1974.....	110.0	112.1	(102.0)	113.3	114.5	108.5
1975.....	108.1	111.0	(96.5)	106.6	107.7	102.5
1976 ^{4/}	119.2	123.9	(101.9)	118.1	120.5	108.8
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	3.8	3.9	(2.9)	3.7	3.9	2.9
1971-76.....	0.3	1.1	(-2.8)	-0.7	-0.3	-2.3

47

^{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			EMPLOYEES		
		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	96.5	96.3	(97.8)	93.2	93.6	91.5
1974.....	108.5	98.6	96.8	(106.4)	95.8	94.8	100.0
1975.....	106.0	98.1	95.5	(109.9)	99.4	98.4	103.4
1976 ^{3/}	116.2	97.5	93.8	(114.0)	98.4	96.4	106.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	2.8	-0.9	-1.1	(-0.1)	-0.9	-1.0	-0.1
1971-76.....	0.2	-0.2	-0.9	(3.0)	0.9	0.4	2.6

^{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.

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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	149.0	158.8	(111.5)	144.5	152.7	112.9
1975.....	136.0	147.2	(96.2)	129.3	137.8	97.4
1976 ^{4/}	141.7	152.0	(103.5)	133.8	141.0	105.0
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	3.9	3.9	(3.7)	3.6	3.6	3.4
1971-76.....	3.8	4.7	(0.4)	1.8	2.1	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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 1/	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	87.0	81.6	(116.2)	89.7	84.9	114.8
1975.....	109.1	80.2	74.1	(113.4)	84.4	79.2	112.0
1976 ^{3/}	119.6	84.4	78.7	(115.6)	89.4	84.8	113.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	3.0	-0.9	-0.9	(-0.7)	-0.6	-0.6	-0.4
1971-76.....	0.6	-3.1	-3.9	(0.1)	-1.2	-1.5	-0.3

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 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 BEVERAGES SIC 2082
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/)	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	(163.4)	157.6	153.7	166.3
1974.....	157.2	151.7	(170.1)	163.0	158.5	173.3
1975.....	165.6	160.0	(178.4)	168.6	162.6	181.8
1976 ^{4/}	181.3	167.8	(219.0)	187.1	173.2	224.1
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	5.7	5.5	(6.1)	5.6	5.5	5.9
1971-76.....	7.1	5.1	(11.9)	7.5	5.4	12.4

^{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/} 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 BEVERAGES SIC 2082
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	(79.5)	82.4	84.5	78.1
1974.....	137.1	87.2	90.4	(80.6)	84.1	86.5	79.1
1975.....	141.1	85.2	88.2	(79.1)	83.7	86.8	77.6
1976 ^{3/}	144.1	79.5	85.9	(65.8)	77.0	83.2	64.3
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76....	3.2	-2.4	-2.2	(-2.7)	-2.3	-2.2	-2.5
1971-76....	4.1	-2.8	-1.0	(-7.0)	-3.3	-1.3	-7.4

^{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/} 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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	119.4	130.6	(112.9)	123.1	125.2	121.9
1974.....	120.9	135.0	(112.8)	124.1	127.7	122.0
1975.....	129.4	147.2	(119.5)	132.8	138.8	129.3
1976.....	142.6	161.4	(131.9)	146.9	154.3	142.8
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	2.3	3.0	(1.8)	2.3	2.6	2.2
1971-76.....	4.8	5.6	(4.3)	4.9	5.1	4.8

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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1956.....	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.....	85.8	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.....	113.6	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	103.5	94.7	(109.6)	100.5	98.8	101.5
1974.....	124.6	103.1	92.3	(110.5)	100.4	97.6	102.1
1975.....	130.1	100.5	88.4	(108.9)	98.0	93.7	100.6
1976.....	151.2	106.0	93.7	(114.6)	102.9	98.0	105.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	4.0	1.7	0.9	(2.1)	1.6	1.4	1.8
1971-76.....	5.1	0.3	-0.4	(0.8)	0.2	-0.0	0.3

^{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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	111.9	114.7	(93.4)	107.9	110.7	89.0
1975.....	114.2	119.0	(86.1)	110.9	115.9	82.1
1976 ^{4/}	119.4	124.2	(90.7)	116.2	121.2	86.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1950-76.....	2.9	3.2	(0.4)	2.8	3.1	0.2
1971-76.....	1.6	2.4	(-3.1)	1.2	1.9	-3.6

^{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/} 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	90.5	88.3	(108.5)	93.9	91.5	113.8
1975.....	99.7	87.3	83.8	(115.8)	89.9	86.0	121.5
1976 ^{3/}	102.8	86.1	82.8	(113.4)	88.5	84.8	118.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	1.2	-1.6	-1.9	(0.8)	-1.6	-1.9	0.9
1971-76.....	0.2	-1.4	-2.1	(3.5)	-0.9	-1.7	4.0

^{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 <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/)	47.7	(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.....	106.5	110.2	(84.9)	102.8	106.5	81.2
1975.....	110.3	115.5	(81.8)	106.3	111.7	78.2
1976 <u>4/</u>	116.1	121.2	(87.5)	111.6	116.7	84.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1950-76.....	1.4	1.7	(-0.6)	1.2	1.5	-0.8
1971-76.....	1.8	2.5	(-2.7)	1.2	2.0	-3.2

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; 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	105.4	101.9	(132.2)	109.2	105.4	138.3
1975.....	114.8	104.1	99.4	(140.4)	108.0	102.8	146.8
1976 ^{3/}	121.6	104.7	100.3	(139.0)	109.0	104.2	144.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	1.8	0.4	0.2	(2.4)	0.6	0.3	2.6
1971-76.....	3.1	1.3	0.6	(6.0)	1.8	1.1	6.6

^{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.

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 <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/)	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.....	128.6	126.0	(158.9)	121.3	118.9	149.4
1975.....	126.5	126.7	(122.6)	124.0	125.0	115.1
1976 <u>4/</u>	129.9	130.2	(125.2)	130.5	131.9	118.2
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1950-76.....	5.1	5.3	(3.2)	5.2	5.4	3.1
1971-76.....	1.9	2.0	(-0.1)	1.4	1.7	-0.6

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/ 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	58.1	59.3	(47.0)	61.6	62.8	50.0
1975.....	64.0	50.6	50.5	(52.2)	51.6	51.2	55.6
1976 ^{3/}	59.1	45.5	45.4	(47.2)	45.3	44.8	50.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	-0.6	-5.4	-5.6	(-3.7)	-5.5	-5.7	-3.6
1971-76.....	-9.1	-10.8	-10.9	(-9.0)	-10.4	-10.6	-8.6

^{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.

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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	147.7	152.5	(114.1)	140.2	143.9	111.0
1974.....	168.5	173.7	(130.0)	158.4	163.0	122.7
1975.....	191.6	197.5	(148.0)	178.0	182.7	140.7
1976 ^{4/}	203.9	209.1	(164.5)	191.4	195.6	156.4
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	6.4	6.5	(4.7)	6.2	6.4	4.5
1971-76.....	11.2	11.1	(11.6)	10.2	10.2	10.3

^{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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 1/	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	77.7	75.3	(100.6)	81.9	79.8	103.4
1974.....	105.8	62.8	60.9	(81.4)	66.8	64.9	86.2
1975.....	110.0	57.4	55.7	(74.3)	61.8	60.2	78.2
1976 ^{3/}	124.0	60.8	59.3	(75.4)	64.8	63.4	79.3
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	3.6	-2.6	-2.8	(-1.1)	-2.5	-2.7	-0.9
1971-76.....	1.3	-8.9	-8.8	(-9.2)	-8.1	-8.0	-8.1

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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	112.9	114.9	(95.9)	116.3	118.4	98.2
1974.....	108.2	111.3	(83.2)	108.9	112.1	84.4
1975.....	112.9	115.6	(90.2)	113.9	116.7	91.5
1976 ^{3/}	118.9	121.1	(99.2)	124.6	127.4	101.1
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	2.7	2.8	(1.8)	2.9	3.0	1.9
1971-76.....	0.4	0.6	(-0.9)	0.7	0.9	-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 53. SAWMILLS AND PLANING MILLS, GENERAL SIC 2421
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	99.1	97.4	(116.7)	96.2	94.5	113.9
1974.....	104.7	96.8	94.1	(125.8)	96.1	93.4	124.1
1975.....	100.7	89.2	87.1	(111.7)	88.4	86.3	110.1
1976 ^{2/}	117.1	98.5	96.7	(118.1)	94.0	91.9	115.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	0.6	-2.1	-2.1	(-1.2)	-2.3	-2.4	-1.3
1971-76.....	0.3	-0.1	-0.2	(1.2)	-0.4	-0.6	1.5

^{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, 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.....	57.3	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	(131.1)	134.3	134.7	132.4
1974.....	135.2	137.0	(126.9)	132.3	133.4	127.9
1975.....	124.4	153.1	(109.2)	121.4	124.5	110.2
1976 <u>4/</u>	138.6	142.4	(122.2)	133.9	136.7	123.6
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1950-76.....	3.9	4.2	(2.2)	3.7	4.0	2.1
1971-76.....	2.0	2.5	(-0.2)	1.2	1.5	0.2

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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	97.9	97.7	(98.1)	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	(97.6)	95.3	95.0	96.7
1974.....	127.4	94.2	93.0	(100.4)	96.3	95.5	99.6
1975.....	108.2	84.3	81.3	(99.1)	89.1	86.9	98.2
1976 ^{3/}	124.5	89.8	87.4	(101.9)	93.0	91.1	100.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	4.1	0.1	-0.2	(1.8)	0.3	(4/)	1.9
1971-76.....	0.3	-1.7	-2.1	(0.4)	-0.9	-1.2	0.1

^{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.

^{4/} 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 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.....	137.7	143.2	(121.7)	128.5	130.6	122.6
1975.....	142.2	151.8	(116.8)	134.2	140.8	117.7
1976 <u>3/</u>	146.6	153.9	(125.9)	140.5	145.5	127.4
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	3.9	4.2	(2.8)	3.5	3.8	2.8
1971-76.....	4.6	5.7	(1.7)	3.9	4.6	2.0

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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	99.0	95.2	(112.0)	106.1	104.4	111.2
1975.....	123.6	86.9	81.4	(105.8)	92.1	87.8	105.0
1976 ^{2/}	138.5	94.5	90.0	(110.0)	98.6	95.2	108.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	5.5	1.5	1.7	(2.6)	1.9	1.6	2.6
1971-76.....	1.1	-3.4	-4.4	(-0.6)	-2.8	-3.4	-0.9

^{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 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 <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	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.....	176.8	170.4	(200.2)	179.0	172.3	201.2
1974.....	173.1	170.9	(180.6)	172.2	168.7	183.3
1975.....	187.2	192.0	(173.4)	182.5	184.6	176.3
1976 <u>3/</u>	196.5	201.4	(182.7)	193.3	195.7	186.5
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1957-76.....	6.1	6.1	(6.2)	6.1	6.1	6.1
1971-76.....	6.1	7.4	(2.2)	5.6	6.6	2.8

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 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 FIBERS SIC 2823, 2824
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	111.9	116.1	(98.8)	110.5	114.8	98.3
1974.....	196.0	113.2	114.7	(108.5)	113.8	116.2	106.9
1975.....	176.3	94.2	91.8	(101.7)	96.6	95.5	100.0
1976 ^{2/}	186.5	94.9	92.6	(102.1)	96.5	95.3	100.0
		AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1957-76.....	8.9	2.7	2.7	(2.6)	2.7	2.7	2.6
1971-76.....	3.2	-2.7	-3.9	(1.0)	-2.3	-3.1	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 <u>1/</u>		OUTPUT PER EMPLOYEE <u>1/</u>		
	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.....	141.3	152.4	142.2	153.2	131.0
1975.....	143.0	159.1	141.2	157.1	126.1
1976 <u>2/</u>	153.3	168.1	152.2	167.0	137.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1963-76.....	5.0	6.0	4.8	5.8	3.7
1971-76.....	3.6	4.3	2.8	3.5	2.0

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

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYEES		
		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.....	168.2	119.0	110.4	118.3	109.8	128.4
1975.....	171.4	119.9	107.7	121.4	109.1	135.9
1976 <u>1</u> /	190.0	123.9	113.0	124.8	113.8	137.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1963-76.....	7.8	2.7	1.7	2.9	2.0	4.0
1971-76.....	5.3	1.7	1.0	2.5	1.8	3.2

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.....	111.8	110.4	(113.8)	109.3	105.3	114.4
1974.....	123.3	126.0	(119.8)	122.8	123.9	121.7
1975.....	128.7	136.9	(119.1)	127.6	133.7	121.2
1976 ^{3/}	133.7	140.0	(126.6)	134.7	139.7	129.2
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	2.7	3.0	(2.4)	2.6	2.9	2.4
1971-76.....	3.2	4.5	(1.7)	3.6	4.8	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/ 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	74.9	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	106.5	107.9	(104.7)	109.0	113.1	104.1
1974.....	125.4	101.7	99.5	(104.7)	102.1	101.2	103.0
1975.....	120.2	93.4	87.8	(100.9)	94.2	89.9	99.2
1976 ^{2/}	129.6	96.9	92.6	(102.4)	96.2	92.8	100.3
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	3.5	0.7	0.5	(1.1)	0.8	0.6	1.1
1971-76.....	1.6	-1.6	-2.8	(-0.1)	-1.9	-3.0	-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, 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	132.4	135.7	(124.3)	131.4	133.0	127.6
1974.....	121.4	121.8	(120.4)	121.8	121.3	122.9
1975.....	123.7	126.9	(115.7)	123.0	125.2	118.1
1976 ^{4/}	129.2	129.4	(128.7)	130.3	129.8	131.8
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	5.3	5.6	(4.4)	5.3	5.6	4.4
1971-76.....	2.4	2.1	(3.1)	2.3	2.1	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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	91.1	88.9	(97.0)	91.8	90.7	94.5
1974.....	117.4	96.7	96.4	(97.5)	96.4	96.8	95.5
1975.....	115.9	93.7	91.3	(100.2)	94.2	92.6	98.1
1976 ^{3/}	125.1	96.8	96.7	(97.2)	96.0	96.4	94.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	3.2	-2.0	-2.3	(-1.1)	-2.0	-2.3	-1.2
1971-76.....	1.9	-0.5	-0.2	(-1.2)	-0.5	-0.2	-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/} 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	116.7	117.1	(115.6)	119.9	119.8	120.0
1974.....	116.3	117.3	(112.8)	120.9	121.5	118.4
1975.....	115.7	119.5	(104.0)	116.8	119.4	109.1
1976 ^{4/}	131.9	141.6	(106.3)	141.0	152.7	112.0
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	3.9	4.2	(2.6)	3.9	4.3	2.6
1971-76.....	1.9	3.3	(-2.3)	2.2	3.5	-1.8

^{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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	93.7	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	127.0	126.6	(128.2)	123.6	123.7	123.5
1974.....	152.9	131.5	130.3	(135.6)	126.5	125.8	129.1
1975.....	133.7	115.6	111.9	(128.5)	114.5	112.0	122.5
1976 ^{3/}	134.1	101.7	94.7	(126.2)	95.1	87.8	119.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	4.3	0.4	0.1	(1.7)	0.4	(4/)	1.6
1971-76.....	-0.4	-2.2	-3.5	(1.9)	-2.5	-3.8	1.4

^{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/} Not available.

^{3/} Preliminary.

^{4/} Less than .05 percent.

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.....	103.9	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	(85.2)	101.7	103.4	88.1
1974.....	100.3	103.4	(77.7)	98.3	100.7	80.3
1975.....	104.3	107.3	(82.5)	101.7	103.8	85.3
1976 <u>5/</u>	107.6	109.8	(90.6)	105.7	107.0	94.1
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	1.0	1.0	(0.4)	1.1	1.1	0.4
1971-76.....	0.3	0.4	(-0.8)	-0.2	-0.2	-0.6

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/ 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.

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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	(96.1)	80.5	79.2	93.0
1974.....	75.5	75.3	73.0	(97.2)	76.8	75.0	94.0
1975.....	70.4	67.5	65.6	(85.3)	69.2	67.8	82.5
1976 ^{4/}	76.2	70.8	69.4	(84.1)	72.1	71.2	81.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	-0.5	-1.5	-1.6	(-0.9)	-1.6	-1.7	-0.9
1971-76.....	-4.1	-4.3	-4.5	(-3.3)	-3.9	-3.9	-3.5

^{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/} 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.

^{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 70. GLASS CONTAINERS SIC 3221
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/)	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.....	112.9	114.5	(100.9)	109.8	110.8	102.1
1974.....	121.6	122.8	(112.2)	118.0	118.9	110.4
1975.....	120.9	122.5	(108.3)	114.1	115.1	106.6
1976 4/	121.9	123.1	(113.4)	114.6	114.9	112.0
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	2.0	2.1	(1.2)	1.8	1.9	1.2
1971-76.....	3.0	2.9	(3.6)	1.8	1.8	2.1

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

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	106.6	105.1	(119.2)	109.6	108.6	117.8
1974.....	119.5	98.3	97.3	(106.5)	101.3	100.5	108.2
1975.....	119.7	99.0	97.7	(110.5)	104.9	104.0	112.3
1976 ^{3/}	127.3	104.4	103.4	(112.3)	111.1	110.8	113.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76....	3.8	1.8	1.7	(2.5)	1.9	1.9	2.5
1971-76....	1.6	-1.3	-1.3	(-1.9)	-0.2	-0.2	-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/ Not available.

3/ 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 72. HYDRAULIC CEMENT SIC 3241
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/)	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.....	129.7	129.2	(132.6)	132.3	132.1	133.0
1974.....	119.0	118.4	(121.9)	119.8	119.9	119.5
1975.....	111.0	111.6	(108.5)	109.0	109.7	105.8
1976 ^{4/}	118.1	118.0	(119.1)	116.9	116.9	116.9
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	3.0	4.3	(1.9)	3.8	4.1	1.8
1971-76.....	-1.6	-1.5	(-1.7)	-2.5	-2.3	-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/} Not available.

^{4/} 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	92.9	93.3	(90.9)	91.1	91.2	90.6
1974.....	113.9	95.7	96.2	(93.4)	95.1	95.0	95.3
1975.....	95.9	86.4	85.9	(88.4)	88.0	87.4	90.6
1976 ^{3/}	100.4	85.0	85.1	(84.3)	85.9	85.9	85.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	1.8	-2.0	-2.4	(4/)	-1.8	-2.2	(4/)
1971-76.....	-3.1	-1.5	-1.6	(-1.4)	-0.6	-0.8	(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/} Not available.

^{3/} Preliminary.

^{4/} Less than .05 percent.

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 <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.....	75.7	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.....	131.7	130.9	(135.8)	131.7	130.6	137.5
1974.....	134.6	135.0	(132.3)	134.9	135.8	130.6
1975.....	129.4	133.5	(112.0)	126.9	131.0	110.4
1976 <u>3/</u>	135.6	139.1	(120.2)	134.9	138.9	118.4
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	3.3	3.6	(1.5)	3.4	3.7	1.6
1971-76.....	1.6	1.5	(2.0)	1.1	1.2	0.6

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, 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	99.4	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	85.3	85.8	(82.7)	85.3	86.0	81.7
1974.....	116.8	86.8	86.5	(88.3)	86.6	86.0	89.4
1975.....	97.7	75.5	73.2	(87.2)	77.0	74.6	88.5
1976 ^{2/}	103.6	76.4	74.5	(86.2)	76.8	74.6	87.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	0.5	-2.7	-3.0	(-1.0)	-2.7	-3.1	-1.0
1971-76.....	-0.4	-2.5	-2.4	(-2.8)	-2.0	-2.1	-1.5

^{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, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 76. CLAY CONSTRUCTION PRODUCTS SIC 3251,53,59
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
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.....	133.0	132.2	(138.1)	131.6	130.1	139.5
1974.....	130.7	131.2	(128.7)	130.1	130.9	126.5
1975.....	129.0	132.0	(115.2)	126.4	129.3	113.4
1976 ^{3/}	135.7	137.8	(125.9)	136.1	138.8	124.0
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	3.3	3.5	(2.0)	3.3	3.6	2.0
1971-76.....	0.8	0.9	(0.9)	0.5	0.7	-0.6

^{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, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE 77. CLAY CONSTRUCTION PRODUCTS SIC 3251,53,59
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	83.6	84.1	(80.5)	84.5	85.5	79.7
1974.....	108.9	83.3	83.0	(84.6)	83.7	83.2	86.1
1975.....	90.4	70.1	68.5	(78.5)	71.5	69.9	79.7
1976 ^{2/}	98.8	72.8	71.7	(78.5)	72.6	71.2	79.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	-0.1	-3.3	-3.5	(-2.1)	-3.3	-3.5	-2.1
1971-76.....	-2.5	-3.3	-3.3	(-3.3)	-3.0	-3.2	-1.9

^{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 78. CLAY REFRACTORIES SIC 3255
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
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.....	125.6	124.8	(129.4)	131.3	131.3	131.5
1974.....	143.9	143.1	(147.6)	148.1	149.0	144.5
1975.....	127.9	132.7	(111.8)	126.7	131.5	110.4
1976 ^{3/}	131.9	139.1	(108.8)	129.5	136.5	107.4
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	3.3	3.9	(0.4)	3.7	4.4	0.5
1971-76.....	4.0	3.1	(6.7)	2.9	2.2	5.0

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

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 1/	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	92.1	92.7	(89.4)	88.1	88.1	88.0
1974.....	144.5	100.4	101.0	(97.9)	97.6	97.0	100.0
1975.....	123.7	96.7	93.2	(110.6)	97.6	94.1	112.0
1976 _{2/}	120.3	91.2	86.5	(110.6)	92.9	88.1	112.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	3.1	-0.2	-0.8	(2.6)	-0.6	-1.3	2.6
1971-76.....	4.2	0.2	1.1	(-2.4)	1.2	1.9	-0.8

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 80. CONCRETE PRODUCTS SIC 3271, 3272
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
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.....	104.0	104.5	(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.....	115.9	118.4	(107.3)	116.0	118.4	108.6
1974.....	116.3	117.9	(110.8)	114.5	116.2	109.0
1975 ^{4/}	113.2	117.9	(98.5)	109.2	113.4	96.8
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-75.....	2.4	3.1	(2.0)	2.7	2.9	2.0
1971-75.....	0.5	0.8	(-0.5)	-0.3	0.4	-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/} Preliminary.

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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	139.5	120.4	117.8	(130.0)	120.3	117.8	128.5
1974.....	124.3	106.9	105.4	(112.2)	108.6	107.0	114.0
1975 ^{3/}	113.1	99.9	95.9	(114.8)	103.6	99.7	116.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-75....	4.3	1.3	1.1	(2.3)	1.5	1.3	2.3
1971-75....	-2.3	-2.8	-3.1	(-1.8)	-2.0	-2.7	0.1

^{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 R2. 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.....	105.7	102.2	119.6	113.2	117.0
1975 ^{1/}	112.3	106.0	117.2	104.4	110.6
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-75.....	1.9	1.7	3.5	1.5	1.8
1971-75.....	1.9	1.7	3.4	1.4	1.6

^{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 R3. STEEL SIC 331
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
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.....	77.4	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.....	104.8	107.3	(95.8)	104.9	106.3	99.5
1972.....	111.1	112.2	(106.9)	113.7	114.3	111.1
1973.....	123.9	123.5	(125.0)	128.3	128.0	129.7
1974.....	123.5	123.9	(121.7)	127.0	127.4	125.4
1975.....	108.6	113.3	(93.0)	107.5	110.8	95.9
1976 ^{3/}	116.5	120.7	(102.0)	116.7	120.0	105.2
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	1.7	2.1	(^{4/})	1.9	2.2	0.2
1971-76.....	1.3	1.8	(-0.4)	1.0	1.5	-0.6

^{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.

^{4/} 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	91.1	89.0	(99.7)	91.0	89.8	96.0
1972.....	102.4	92.2	91.3	(95.8)	90.1	89.6	92.2
1973.....	121.9	98.4	98.7	(97.5)	95.0	95.2	94.0
1974.....	121.8	98.6	98.3	(100.1)	95.9	95.6	97.1
1975.....	92.2	84.9	81.4	(99.1)	85.8	83.2	96.1
1976 ^{2/}	99.7	85.6	82.6	(97.7)	85.4	83.1	94.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	1.1	-0.6	-1.0	(1.1)	-0.7	-1.1	1.0
1971-76.....	-0.3	-1.6	-2.0	(0.1)	-1.3	-1.7	0.3

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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	104.4	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.....	106.3	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.....	118.4	120.3	(110.0)	121.6	123.2	112.3
1973.....	124.2	125.2	(117.8)	127.4	128.4	121.3
1974.....	128.0	129.7	(117.4)	128.7	129.9	121.4
1975.....	124.2	128.5	(101.1)	120.7	123.7	104.5
1976 ^{3/}	131.2	135.5	(107.8)	130.4	134.0	112.0
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1954-76.....	2.3	2.5	(1.4)	2.5	2.7	1.6
1971-76.....	2.6	3.0	(0.5)	2.2	2.5	0.8

^{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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	95.3	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	113.3	112.4	(119.4)	110.4	109.6	116.0
1974.....	141.6	110.6	109.2	(120.6)	110.0	109.0	116.6
1975.....	119.0	95.8	92.6	(117.7)	98.6	96.2	113.9
1976 ^{2/}	129.4	98.6	95.5	(120.0)	99.2	96.6	115.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1954-76.....	3.1	0.7	0.6	(1.6)	0.5	0.4	1.5
1971-76.....	2.6	-0.1	-0.4	(2.1)	0.3	(3/)	1.8

^{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.

^{3/} 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 R7. STEEL FOUNDRIES SIC 3324,3325
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
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.....	106.0	109.3	(91.2)	103.7	106.1	93.2
1973.....	107.3	109.5	(97.1)	107.0	108.4	99.8
1974.....	118.5	119.9	(111.8)	116.8	117.1	115.1
1975.....	113.0	115.4	(101.6)	112.0	113.5	105.2
1976 ^{3/}	118.7	123.7	(97.6)	115.8	119.3	101.3
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1954-76.....	1.5	1.7	(0.7)	1.6	1.8	0.9
1971-76.....	3.3	3.2	(3.9)	3.3	3.1	4.2

^{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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	81.9	79.4	(95.2)	83.7	81.8	93.1
1973.....	93.8	87.4	85.7	(96.6)	87.7	86.5	94.0
1974.....	112.1	94.6	93.5	(100.3)	96.0	95.7	97.4
1975.....	107.0	94.7	92.7	(105.3)	95.5	94.3	101.7
1976 ^{2/}	99.6	83.9	80.5	(102.1)	86.0	83.5	98.3
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1954-76.....	2.2	0.7	0.5	(1.5)	0.6	0.4	1.3
1971-76.....	5.5	2.1	2.3	(1.6)	2.1	2.3	1.2

^{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, employment, and hours based on data from the Bureau of the Census and the Bureau of Labor Statistics.

TABLE A9. 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	140.6	136.7	(159.6)	138.5	132.8	164.9
1974.....	127.6	126.7	(130.8)	127.3	125.3	135.7
1975.....	125.2	127.8	(115.7)	123.5	124.6	120.0
1976 ^{4/}	142.8	146.0	(131.2)	143.9	146.2	135.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)						
1950-76.....	2.0	2.3	(0.7)	1.9	2.1	0.9
1971-76.....	1.4	2.6	(-3.6)	1.5	2.8	-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/} Not available.

^{4/} 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	150.4	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.....	161.4	114.8	118.1	(101.1)	116.5	121.5	97.9
1974.....	147.2	115.4	116.2	(112.5)	115.6	117.5	108.5
1975.....	130.2	104.0	101.9	(112.5)	105.4	104.5	108.5
1976 ^{3/}	138.7	97.1	95.0	(105.7)	96.4	94.9	102.1
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	1.2	-0.8	-1.1	(0.4)	-0.7	-0.9	0.3
1971-76.....	-2.6	-4.0	-5.1	(1.0)	-4.1	-5.3	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/} Not available.

^{3/} 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 <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.....	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.....	122.8	123.7	(118.4)	121.8	121.5	123.1
1975.....	105.8	112.8	(83.2)	105.6	111.6	86.0
1976 <u>4/</u>	102.1	106.3	(86.6)	103.0	106.8	89.7
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	3.8	4.1	(2.7)	3.6	3.8	2.8
1971-76.....	-1.8	-1.4	(-3.1)	-1.5	-1.1	-2.8

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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	115.5	114.6	(119.8)	116.4	116.7	115.2
1975.....	112.2	106.0	99.5	(134.9)	106.3	100.5	130.4
1976 ^{3/}	122.9	120.4	115.6	(141.9)	119.3	115.1	137.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	6.4	2.5	2.2	(3.6)	2.7	2.5	3.5
1971-76.....	0.7	2.5	2.1	(3.9)	2.2	1.8	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.

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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	106.3	108.6	(97.4)	109.9	112.6	100.6
1975.....	94.7	102.6	(71.2)	93.2	100.0	73.6
1976 ^{3/}	103.2	106.6	(91.3)	105.0	107.9	94.9
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	1.9	2.2	(1.0)	2.0	2.2	1.3
1971-76.....	-2.6	-1.7	(-5.6)	-3.1	-2.4	-5.3

^{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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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	97.0	94.9	(105.9)	93.8	91.6	102.5
1975.....	74.5	78.7	72.6	(104.6)	79.9	74.5	101.2
1976 <u>2/</u>	92.5	89.6	86.8	(101.3)	88.1	85.7	97.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	1.2	-0.7	-1.0	(0.1)	-0.8	-0.9	-0.1
1971-76.....	-5.1	-2.6	-3.5	(0.5)	-2.1	-2.7	0.2

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 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 3353,54,55
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
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.....	154.7	154.1	(157.0)	156.6	155.5	161.4
1974.....	157.9	159.2	(153.1)	155.1	154.4	157.8
1975.....	142.5	152.4	(112.0)	134.5	140.6	115.7
1976 ^{3/}	170.0	172.6	(159.6)	165.4	165.6	165.2
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	5.5	5.6	(4.9)	5.2	5.2	5.1
1971-76.....	5.3	5.5	(4.6)	4.8	4.8	4.9

^{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/} 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 3353,54,55
INDEXES OF OUTPUT, EMPLOYEE-HOURS, AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		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.....	174.0	112.5	112.9	(110.8)	111.1	111.9	107.8
1974.....	165.2	104.6	103.8	(107.9)	106.5	107.0	104.7
1975.....	115.7	81.2	75.9	(103.3)	86.0	82.3	100.0
1976 <u>2/</u>	155.0	91.2	89.8	(97.1)	93.7	93.6	93.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	6.5	1.0	0.8	(1.5)	1.2	1.2	1.3
1971-76.....	1.4	-3.7	-3.9	(-3.0)	-3.3	-3.3	-3.3

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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	59.4	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.....	109.2	109.9	(104.6)	107.8	108.4	104.0
1974.....	113.3	116.0	(96.6)	110.6	113.0	97.5
1975.....	116.0	121.0	(88.8)	113.4	118.1	89.9
1976 ^{4/}	117.0	122.3	(92.8)	116.8	121.3	94.1
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	2.1	2.2	(1.7)	2.3	2.4	1.6
1971-76.....	2.4	3.0	(-1.2)	2.7	3.4	-0.8

^{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, 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	90.3
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	88.7
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	104.6
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	114.3	113.6	(119.3)	115.8	115.1	120.0
1974.....	126.8	111.9	109.3	(131.3)	114.6	112.2	130.0
1975.....	117.9	101.6	97.4	(132.7)	104.0	99.8	131.2
1976 ^{3/}	120.0	101.8	98.1	(129.3)	102.7	98.9	127.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	3.4	1.2	1.1	(1.7)	1.1	1.0	1.7
1971-76.....	0.4	-1.9	-2.5	(1.7)	-2.2	-2.9	1.2

^{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/} 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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	135.1	134.4	(138.7)	135.9	134.3	142.7
1974.....	135.1	136.9	(128.0)	132.3	132.9	130.5
1975.....	142.0	145.5	(128.1)	137.9	139.7	130.2
1976 ^{3/}	145.1	147.2	(136.6)	142.1	142.8	139.5
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	5.1	5.0	(5.7)	4.9	4.7	5.8
1971-76.....	3.2	3.5	(1.9)	2.3	2.5	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/} 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	94.2	94.7	(91.8)	93.7	94.8	89.2
1974.....	113.9	84.3	83.2	(89.0)	86.1	85.7	87.3
1975.....	105.2	74.1	72.3	(82.1)	76.3	75.3	80.8
1976 ^{2/}	109.4	75.4	74.3	(80.1)	77.0	76.6	78.4
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	4.3	-0.8	-0.6	(-1.3)	-0.6	-0.4	-1.4
1971-76.....	-0.1	-3.2	-3.5	(-2.0)	-2.3	-2.5	-1.5

^{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, 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 <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.....	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.....	128.5	131.2	(117.1)	127.5	129.0	120.6
1974.....	124.4	132.3	(95.9)	119.3	125.1	97.7
1975.....	124.6	136.4	(87.7)	121.7	131.7	89.3
1976 <u>3/</u>	132.2	143.1	(96.2)	129.7	139.2	98.6
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	4.3	4.5	(3.4)	4.1	4.2	3.6
1971-76.....	1.8	2.8	(-1.4)	1.1	1.9	-1.8

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

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	100.6	78.3	76.7	(85.9)	78.9	78.0	83.4
1974.....	89.6	72.0	67.7	(93.4)	75.1	71.6	91.7
1975.....	71.9	57.7	52.7	(82.0)	59.1	54.6	80.5
1976 ^{2/}	81.7	61.8	57.1	(84.9)	63.0	58.7	82.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1958-76.....	4.7	0.4	0.2	(1.2)	0.6	0.5	1.1
1971-76.....	-3.8	-5.5	-6.4	(-2.5)	-4.8	-5.6	-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/} 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 <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	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.....	126.7	124.1	(135.8)	133.9	132.2	139.8
1974.....	121.1	121.5	(119.4)	120.5	121.0	119.2
1975.....	129.3	129.0	(130.1)	128.0	128.3	127.0
1976 <u>3/</u>	141.1	138.7	(149.7)	147.8	146.0	154.4
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1957-76.....	3.6	3.6	(3.8)	3.7	3.7	3.8
1971-76.....	2.7	2.8	(2.4)	2.7	2.7	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 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			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	46.8	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	110.7	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.....	156.8	123.8	126.4	(115.5)	117.1	118.6	112.2
1974.....	131.6	108.7	108.3	(110.2)	109.2	108.8	110.4
1975.....	121.5	94.0	94.2	(93.4)	94.9	94.7	95.7
1976 ^{2/} ...	154.2	109.3	111.2	(103.0)	104.3	105.6	99.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1957-76.....	5.3	1.6	1.7	(1.5)	1.5	1.5	1.5
1971-76.....	1.7	-1.0	-1.1	(-0.7)	-1.0	-1.0	-0.9

^{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 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 ^{1/}
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE
(1967=100)

YEAR	OUTPUT PER EMPLOYEE-HOUR ^{2/} ^{3/}			OUTPUT PER EMPLOYEE ^{2/} ^{3/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	41.5	39.5	67.6	50.9	48.6	81.1
1948.....	39.7	37.8	63.3	48.5	46.4	76.0
1949.....	39.4	37.9	56.7	45.3	43.7	65.0
1950.....	43.4	41.7	64.6	46.4	44.6	68.5
1951.....	45.3	43.4	69.1	48.0	46.0	73.8
1952.....	46.1	44.3	67.5	48.2	46.4	71.7
1953.....	46.4	44.6	66.4	48.1	46.2	70.6
1954.....	48.9	47.5	63.4	49.9	48.4	66.5
1955.....	51.9	50.3	67.2	53.8	52.1	72.7
1956.....	52.9	51.4	67.4	54.6	53.0	73.1
1957.....	53.0	51.8	64.7	54.1	52.6	70.1
1958.....	56.9	56.2	62.5	57.7	56.7	67.7
1959.....	60.7	60.0	66.7	61.9	60.8	72.4
1960.....	62.4	61.9	66.7	63.2	62.2	72.2
1961.....	67.4	67.2	69.2	68.1	67.3	74.5
1962.....	72.3	72.0	74.8	73.6	72.8	80.7
1963.....	76.0	75.7	78.5	77.8	77.0	84.7
1964.....	80.9	80.6	83.3	83.9	83.1	90.6
1965.....	90.1	90.2	89.4	92.5	91.9	96.9
1966.....	97.2	97.2	96.9	99.3	98.9	102.4
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	105.3	105.5	103.8	106.5	106.7	104.3
1969.....	109.3	109.5	107.3	110.4	110.8	107.0
1970.....	107.6	108.0	104.1	108.5	109.1	103.6
1971.....	111.9	112.9	104.6	108.2	108.9	103.3
1972.....	121.7	123.2	112.2	120.9	122.3	110.1
1973.....	133.2	134.4	123.9	130.9	132.1	120.8
1974.....	129.6	130.8	121.2	128.4	129.9	117.8
1975.....	128.1	130.6	111.4	124.3	126.6	107.8
1976 ^{4/}	133.4	136.2	116.2	130.3	132.7	113.1
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	5.0	5.2	2.9	4.7	5.0	2.4
1971-76.....	2.9	3.2	1.4	2.9	3.1	1.0

^{1/} Class I railroads and Class I switching and terminal companies.

^{2/} 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.

^{3/} Output series revised to incorporate unit labor cost weights and the introduction of additional product detail; employee-hours revised to exclude constructive allowances.

^{4/} Preliminary.

Source: Based on Interstate Commerce Commission data.

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

YEAR	OUTPUT 2/	EMPLOYEE-HOURS 2/			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	112.1	270.2	283.8	165.8	220.4	230.6	138.3
1948.....	105.1	264.9	277.8	166.1	216.5	226.3	138.3
1949.....	88.4	224.2	233.1	155.9	195.0	202.5	135.9
1950.....	92.9	213.9	223.0	143.9	200.0	208.1	135.6
1951.....	100.4	221.7	231.6	145.3	209.2	218.4	136.1
1952.....	97.2	210.9	219.5	144.1	201.5	209.7	135.5
1953.....	95.3	205.6	213.7	143.5	198.2	206.1	135.0
1954.....	87.4	178.7	184.0	137.9	175.2	180.7	131.5
1955.....	93.7	180.7	186.1	139.5	174.2	179.9	128.8
1956.....	94.2	178.2	183.1	139.8	172.4	177.9	128.8
1957.....	88.4	166.9	170.8	136.6	163.5	168.2	126.1
1958.....	80.4	141.4	143.1	128.6	139.3	141.9	118.8
1959.....	83.7	137.8	139.4	125.4	135.2	137.6	115.6
1960.....	81.9	131.2	132.3	122.7	129.5	131.6	113.5
1961.....	81.0	120.1	120.5	117.1	119.0	120.4	108.7
1962.....	85.4	118.1	118.6	114.2	116.1	117.3	105.8
1963.....	87.7	115.4	115.9	111.7	112.7	113.9	103.6
1964.....	92.4	114.2	114.6	110.9	110.1	111.2	102.0
1965.....	97.4	108.1	108.0	109.0	105.3	106.0	100.5
1966.....	102.8	105.8	105.8	106.1	103.5	103.9	100.4
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	103.2	98.0	97.8	99.4	96.9	96.7	98.9
1969.....	104.8	95.9	95.7	97.7	94.9	94.6	97.9
1970.....	101.0	93.9	93.5	97.0	93.1	92.6	97.5
1971.....	98.8	88.3	87.5	94.5	91.3	90.7	95.6
1972.....	104.2	85.6	84.6	92.9	86.2	85.2	94.6
1973.....	114.0	85.6	84.8	92.0	87.1	86.3	94.4
1974.....	112.0	86.4	85.6	92.4	87.2	86.2	95.1
1975.....	100.3	78.3	76.8	90.0	80.7	79.2	93.0
1976 ^{3/}	105.0	78.7	77.1	90.4	80.6	79.1	92.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	0.7	-4.1	-4.3	-2.1	-3.8	-4.0	-1.7
1971-76.....	0.5	-2.4	-2.6	-0.9	-2.3	-2.6	-0.5

1/ Class I railroads and Class I switching and terminal companies.

2/ Output series revised to incorporate unit labor cost weights and the introduction of additional product detail; employee-hours revised to exclude constructive allowances.

3/ Preliminary.

Source: Based on Interstate Commerce Commission data.

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

YEAR	OUTPUT PER EMPLOYEE-HOUR ^{2/} ^{3/}			OUTPUT PER EMPLOYEE ^{2/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	43.0	40.9	70.1	52.7	50.4	84.0
1948.....	42.9	40.9	68.4	52.5	50.2	82.1
1949.....	45.4	43.6	65.2	52.2	50.2	74.8
1950.....	50.0	48.0	74.4	53.5	51.4	78.9
1951.....	50.4	48.2	76.9	53.4	51.1	82.1
1952.....	52.0	49.9	76.1	54.4	52.3	80.9
1953.....	53.5	51.4	76.6	55.4	53.3	81.4
1954.....	57.4	55.8	74.4	58.6	56.8	78.0
1955.....	60.9	59.1	78.9	63.1	61.1	85.4
1956.....	62.3	60.6	79.4	64.4	62.4	86.2
1957.....	64.3	62.8	78.6	65.6	63.8	85.1
1958.....	69.4	68.6	76.3	70.4	69.1	82.6
1959.....	72.1	71.3	79.3	73.5	72.2	86.0
1960.....	74.4	73.8	79.5	75.4	74.2	86.0
1961.....	78.4	78.1	80.4	79.1	78.2	86.6
1962.....	81.0	80.7	83.8	82.4	81.6	90.5
1963.....	83.8	83.4	86.6	85.8	84.9	93.3
1964.....	86.7	86.4	89.3	89.9	89.0	97.1
1965.....	92.5	92.6	91.7	95.0	94.3	99.5
1966.....	97.3	97.3	97.0	99.4	99.0	102.5
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	102.1	102.4	100.7	103.3	103.5	101.2
1969.....	104.5	104.7	102.6	105.6	105.9	102.3
1970.....	104.7	105.1	101.3	105.6	106.2	100.8
1971.....	108.2	109.1	101.1	104.6	105.3	99.9
1972.....	115.5	116.9	106.5	114.7	116.1	104.5
1973.....	119.2	120.3	110.9	117.1	118.2	108.1
1974.....	116.2	117.3	108.7	115.1	116.5	105.6
1975.....	115.5	117.7	100.4	112.0	114.1	97.2
1976 ^{4/}	118.4	120.9	103.1	115.6	117.8	100.4
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	3.7	4.0	1.7	3.4	3.7	1.2
1971-76.....	1.2	1.5	-0.3	1.2	1.4	-0.6

^{1/} Class I railroads and Class I switching and terminal companies.

^{2/} 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.

^{3/} Employee-hours revised to exclude constructive allowances.

^{4/} Preliminary.

Source: Based on Interstate Commerce Commission data.

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

YEAR	OUTPUT	EMPLOYEE-HOURS <u>2/</u>			EMPLOYEES		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	116.2	270.2	283.8	165.8	220.4	230.6	138.3
1948.....	113.6	264.9	277.8	166.1	216.5	226.3	138.3
1949.....	101.7	224.2	233.1	155.9	195.0	202.5	135.9
1950.....	107.0	213.9	223.0	143.9	200.0	208.1	135.6
1951.....	111.7	221.7	231.6	145.3	209.2	218.4	136.1
1952.....	109.6	210.9	219.5	144.1	201.5	209.7	135.5
1953.....	109.9	205.6	213.7	143.5	198.2	206.1	135.0
1954.....	102.6	178.7	184.0	137.9	175.2	180.7	131.5
1955.....	110.0	180.7	186.1	139.5	174.2	179.9	128.8
1956.....	111.0	178.2	183.1	139.8	172.4	177.9	128.8
1957.....	107.3	166.9	170.8	136.6	163.5	168.2	126.1
1958.....	98.1	141.4	143.1	128.6	139.3	141.9	118.8
1959.....	99.4	137.8	139.4	125.4	135.2	137.6	115.6
1960.....	97.6	131.2	132.3	122.7	129.5	131.6	113.5
1961.....	94.1	120.1	120.5	117.1	119.0	120.4	108.7
1962.....	95.7	118.1	118.6	114.2	116.1	117.3	105.8
1963.....	96.7	115.4	115.9	111.7	112.7	113.9	103.6
1964.....	99.0	114.2	114.6	110.9	110.1	111.2	102.0
1965.....	100.0	108.1	108.0	109.0	105.3	106.0	100.5
1966.....	102.9	105.8	105.8	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	98.0	97.8	99.4	96.9	96.7	98.9
1969.....	100.2	95.9	95.7	97.7	94.9	94.6	97.9
1970.....	98.3	93.9	93.5	97.0	93.1	92.6	97.5
1971.....	95.5	88.3	87.5	94.5	91.3	90.7	95.6
1972.....	98.9	85.6	84.6	92.9	86.2	85.2	94.6
1973.....	102.0	85.6	84.8	92.0	87.1	86.3	94.4
1974.....	100.4	86.4	85.6	92.4	87.2	86.2	95.1
1975.....	90.4	78.3	76.8	90.0	80.7	79.2	93.0
1976 _{3/}	93.2	78.7	77.1	90.4	80.6	79.1	92.8
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)							
1950-76.....	-0.5	-4.1	-4.3	-2.1	-3.8	-4.0	-1.7
1971-76.....	-1.2	-2.4	-2.6	-0.9	-2.3	-2.6	-0.5

1/ Class I railroads and Class I switching and terminal companies.

2/ Employee-hours revised to exclude constructive allowances.

3/ 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.....	123.4	150.3	121.8
1974.....	120.5	146.0	121.2
1975 ^{2/}	121.2	133.9	110.5
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)		
1954-75.....	2.6	5.9	3.2
1971-75.....	1.3	2.2	1.0

^{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.....	122.1	137.8	112.9
1974.....	114.5	123.9	108.2
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)		
1954-74.....	2.2	4.8	2.6

1/ Class I and II common and contract carriers.

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.....	134.6	152.9	113.6
1976 ^{1/}	146.7	168.6	114.9
	AVERAGE ANNUAL RATES OF CHANGE (PERCENT)		
1950-76.....	6.7	12.3	5.2
1971-76.....	3.8	4.1	0.3

^{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.....	154.5	168.7	153.1	167.1
1976 ^{4/}	154.9	174.0	154.9	174.0
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)				
1958-76.....	8.4	9.3	8.6	9.4
1971-76.....	3.9	4.8	4.0	4.9

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/ 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		EMPLOYEES	
		ALL EMPLOYEES	PRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS ^{1/}
1947.....	25.2	(2/)	(2/)	152.6	(2/)
1948.....	28.1	(2/)	(2/)	160.9	(2/)
1949.....	27.7	(2/)	(2/)	154.3	(2/)
1950.....	32.1	(2/)	(2/)	147.7	(2/)
1951.....	38.3	(2/)	(2/)	153.1	(2/)
1952.....	40.2	(2/)	(2/)	155.5	(2/)
1953.....	43.0	(2/)	(2/)	151.5	(2/)
1954.....	45.2	(2/)	(2/)	145.1	(2/)
1955.....	49.0	(2/)	(2/)	140.7	(2/)
1956.....	54.8	(2/)	(2/)	138.5	(2/)
1957.....	55.3	(2/)	(2/)	141.7	(2/)
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.....	135.0	87.4	80.0	88.2	80.8
1976 ^{3/}	138.3	89.3	79.5	89.3	79.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	6.0	-2.3	-3.1	-2.4	-3.2
1971-76.....	3.0	-0.9	-1.7	-1.0	-1.8

^{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.....	152.6	149.1	177.9	116.6	119.3
1976 ^{1/}	168.6	166.9	195.1	115.7	116.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1951-76.....	6.3	6.3	8.1	1.7	1.6
1971-76.....	7.3	7.4	7.5	0.2	0.1

^{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 ^{1/}		OUTPUT PER EMPLOYEE ^{1/}	
	ALL EMPLOYEES	PRODUCTION WORKERS ^{2/}	ALL EMPLOYEES	PRODUCTION WORKERS ^{2/}
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.....	132.3	136.9	131.3	136.1
1976 ^{4/}	137.2	142.8	136.8	142.4
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)				
1950-76.....	6.0	6.5	6.0	6.5
1971-76.....	1.7	2.4	1.6	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/} 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		EMPLOYEES	
		ALL EMPLOYEES	PRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS <u>1/</u>
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.....	146.8	111.0	107.2	111.8	107.9
1976 ^{3/}	153.1	111.6	107.2	111.9	107.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1950-76.....	6.9	0.9	0.4	0.9	0.4
1971-76.....	2.5	0.7	0.1	0.8	0.1

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/
(1967=100)

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.....	104.6	97.7	112.3	107.4	115.0
1975 ^{2/}	106.7	98.5	113.3	106.2	115.0
1976 ^{2/}	106.7	99.1	118.6	111.2	119.7
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	2.1	1.0	2.3	0.2	1.4
1971-76.....	-1.3	-1.9	0.3	1.6	2.2

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

2/ Preliminary.

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 11R. 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.....	122.4	114.9	122.8	100.3	106.9
1976 <u>1/</u> ...	128.4	120.7	133.4	103.9	110.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	2.5	1.7	3.5	0.9	1.7
1971-76.....	2.1	1.6	1.4	-0.7	-0.1

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>	139.0	124.5	119.1	85.7	95.7
1975 <u>2/</u>	135.6	121.9	121.9	89.9	100.0
1976 <u>2/</u>	148.8	129.1	126.8	85.2	98.2
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	3.8	2.7	3.7	-0.1	1.0
1971-76.....	3.2	1.3	-1.1	-4.1	-2.3

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. EATING AND DRINKING PLACES SIC 58
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.....	91.3	102.2	78.8	86.3	77.1
1959.....	90.3	101.4	81.0	89.7	79.9
1960.....	90.0	100.1	81.6	90.7	81.5
1961.....	90.8	100.0	81.5	89.8	81.5
1962.....	91.8	100.6	84.0	91.5	83.5
1963.....	93.8	101.8	86.0	91.7	84.5
1964.....	93.1	101.6	89.8	96.5	88.4
1965.....	96.0	102.7	95.5	99.5	93.0
1966.....	98.0	101.6	99.4	101.4	97.8
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	101.9	100.6	105.6	103.6	105.0
1969.....	100.1	95.9	106.3	106.2	110.9
1970.....	103.5	96.3	110.4	106.7	114.7
1971.....	101.2	93.5	111.6	110.3	119.4
1972.....	104.4	95.0	118.5	113.5	124.8
1973.....	106.0	94.3	124.6	117.5	132.2
1974.....	102.8	88.9	122.9	119.6	138.2
1975 ^{2/}	105.0	89.2	127.4	121.3	142.9
1976 ^{2/}	103.2	85.7	131.9	127.8	153.9
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	1.0	-0.8	3.1	2.1	3.9
1971-76.....	0.2	-1.9	3.0	2.8	5.0

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

^{2/} Preliminary.

Source: Output based on data from the Bureau of the Census and the Bureau of Economic Analysis, U.S. Department of Commerce; and the Bureau of Labor Statistics. 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 121. 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.....	102.9	93.8	118.7	115.3	126.5
1975 <u>2/</u>	104.4	93.9	122.8	117.6	130.8
1976 <u>2/</u>	109.6	97.3	133.8	122.1	137.5
AVERAGE ANNUAL RATES OF CHANGE (PERCENT)					
1958-76.....	2.1	0.8	3.7	1.5	2.8
1971-76.....	1.9	0.8	5.3	3.3	4.4

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

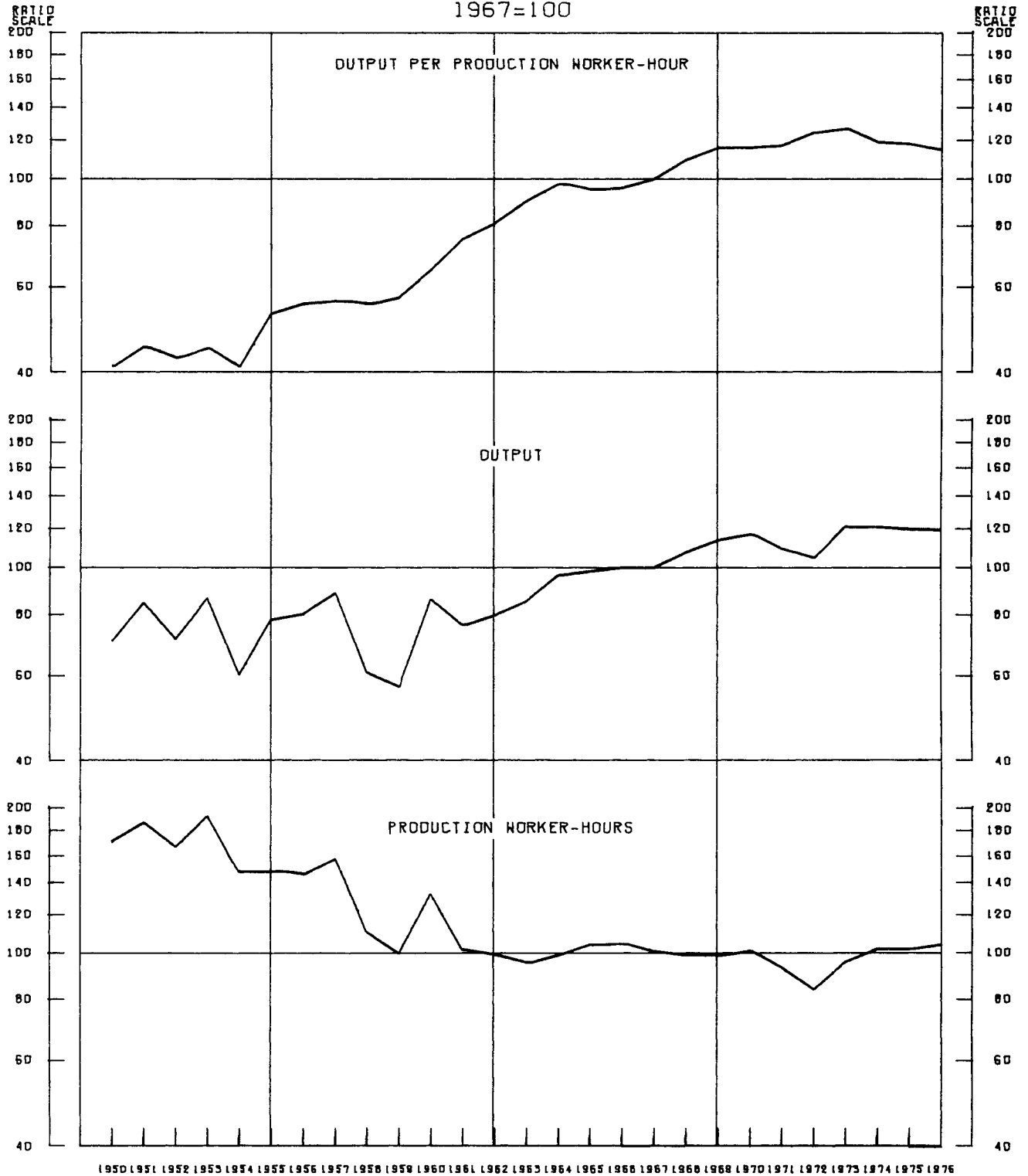
Indexes of Output Per Employee-Hour and Related Data

SIC Code	Industry	Chart	Page
<u>Mining</u>			
1011	Iron mining, crude ore	2	135
1011	Iron mining, usable ore.....	3	136
1021	Copper mining, crude ore.....	4	137
1021	Copper mining, recoverable metal....	5	138
111,121	Coal mining	6	139
121	Bituminous coal and lignite mining..	7	140
14	Nonmetallic minerals.....	8	141
142	Crushed and broken stone.....	9	142
<u>Manufacturing</u>			
203	Canning and preserving.....	10,11	143-144
204	Grain mill products.....	12,13	145-146
2041	Flour and other grain mill products.....	14,15	147-148
2043	Cereal breakfast foods.....	16,17	149-150
2044	Rice milling.....	18,19	151-152
2045	Blended and prepared flour.....	20,21	153-154
2046	Wet corn milling.....	22,23	155-156
2047,48	Prepared feeds for animals and fowls.....	24,25	157-158
205	Bakery products.....	26,27	159-160
2061,62,63	Sugar.....	28,29	161-162
2065	Candy and confectionery products....	30,31	163-164
2082	Malt beverages.....	32,33	165-166
2086	Bottled and canned soft drinks.....	34,35	167-168
2111,21,31	Tobacco products - total.....	36,37	169-170
2111,31	Cigarettes, chewing and smoking tobacco.....	38,39	171-172
2121	Cigars.....	40,41	173-174
2251,52	Hosiery.....	42,43	175-176
2421	Sawmills and planing mills, general.....	44,45	177-178
2611,21,31,61	Paper, paperboard and pulp mills....	46,47	179-180
2653	Corrugated and solid fiber boxes....	48,49	181-182
2823,24	Synthetic fibers.....	50,51	183-184
2834	Pharmaceutical preparations.....	52,53	185-186
2851	Paints and allied products.....	54,55	187-188
2911	Petroleum refining.....	56,57	189-190

Charts—Continued

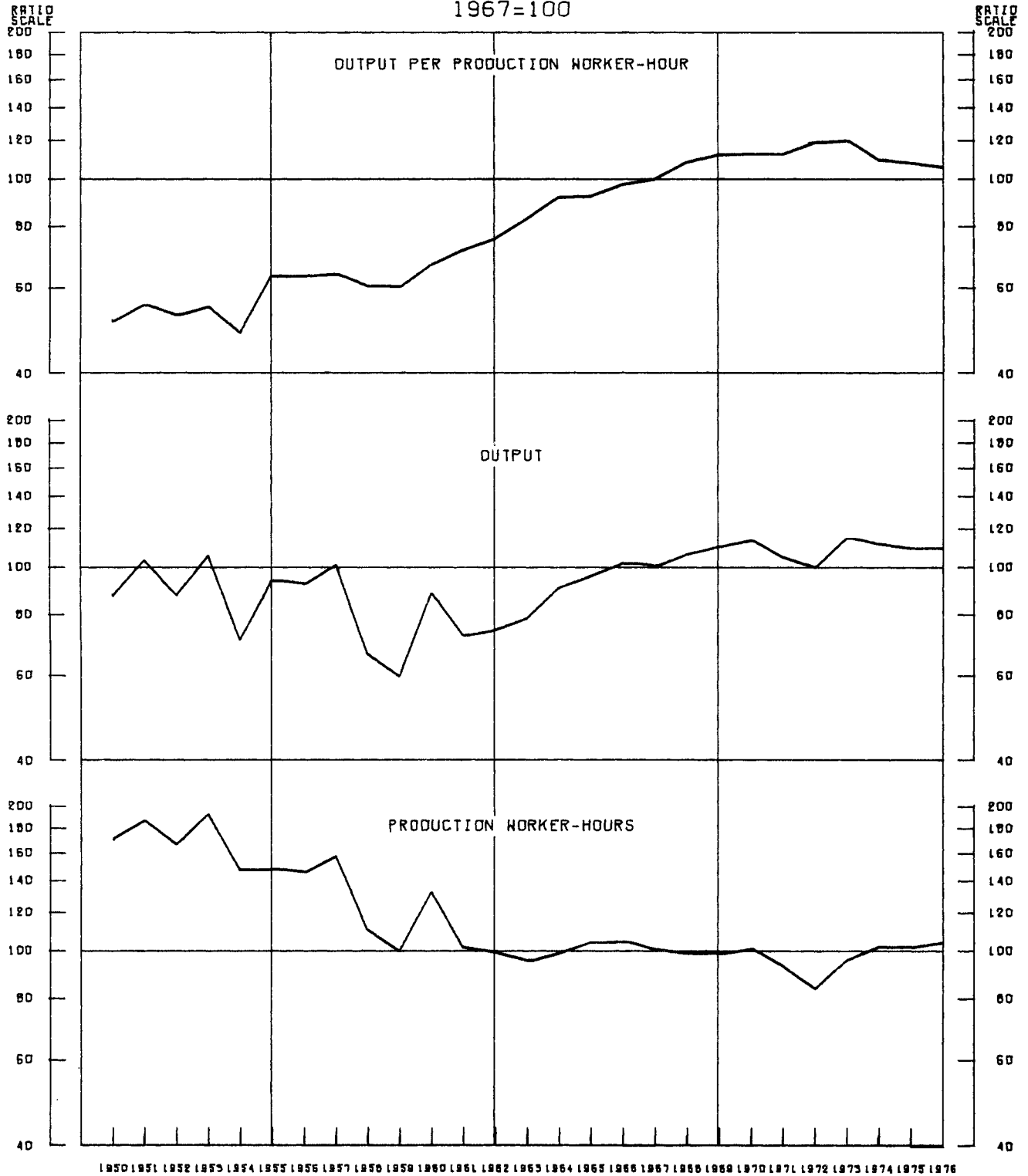
SIC Code	Industry	Chart	Page
<u>Manufacturing -- continued</u>			
3011	Tires and inner tubes.....	58,59	191-192
314	Footwear.....	60,61	193-194
3221	Glass containers.....	62,63	195-196
3241	Hydraulic cement.....	64,65	197-198
325	Structural clay.....	66,67	199-200
3251,53,59	Clay construction products.....	68,69	201-202
3255	Clay refractories.....	70,71	203-204
3271,72	Concrete products.....	72,73	205-206
3273	Ready-mixed concrete.....	74	207
331	Steel.....	75,76	208-209
3321	Gray iron foundries.....	77,78	210-211
3324,25	Steel foundries.....	79,80	212-213
3331,32,33	Primary copper, lead, and zinc.....	81,82	214-215
3334	Primary aluminum.....	83,84	216-217
3351	Copper rolling and drawing.....	85,86	218-219
3353,54,55	Aluminum rolling and drawing.....	87,88	220-221
341	Metal cans.....	89,90	222-223
3631,32,33, 39	Major household appliances.....	91,92	224-225
3651	Radio and television receiving sets.....	93,94	226-227
371	Motor vehicles and equipment.....	95,96	228-229
<u>Other</u>			
401 Class I	Railroads, revenue traffic.....	97,98	230-231
401 Class I	Railroads, car-miles.....	99,100	232-233
4213 PT.	Intercity trucking.....	101	234
4213 PT.	Intercity trucking (general freight).....	102	235
4511	Air transportation.....	103	236
4612,13	Petroleum pipelines.....	104,105	237-238
4811	Telephone communications.....	106	239
491,92,93	Gas and electric utilities.....	107,108	240-241
54	Retail food stores.....	109	242
5511	Franchised new car dealers.....	110	243
5541	Gasoline service stations.....	111	244
58	Eating and drinking places.....	112	245
7011	Hotels and motels.....	113	246

CHART 2
 IRON MINING, CRUDE ORE (SIC 1011), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



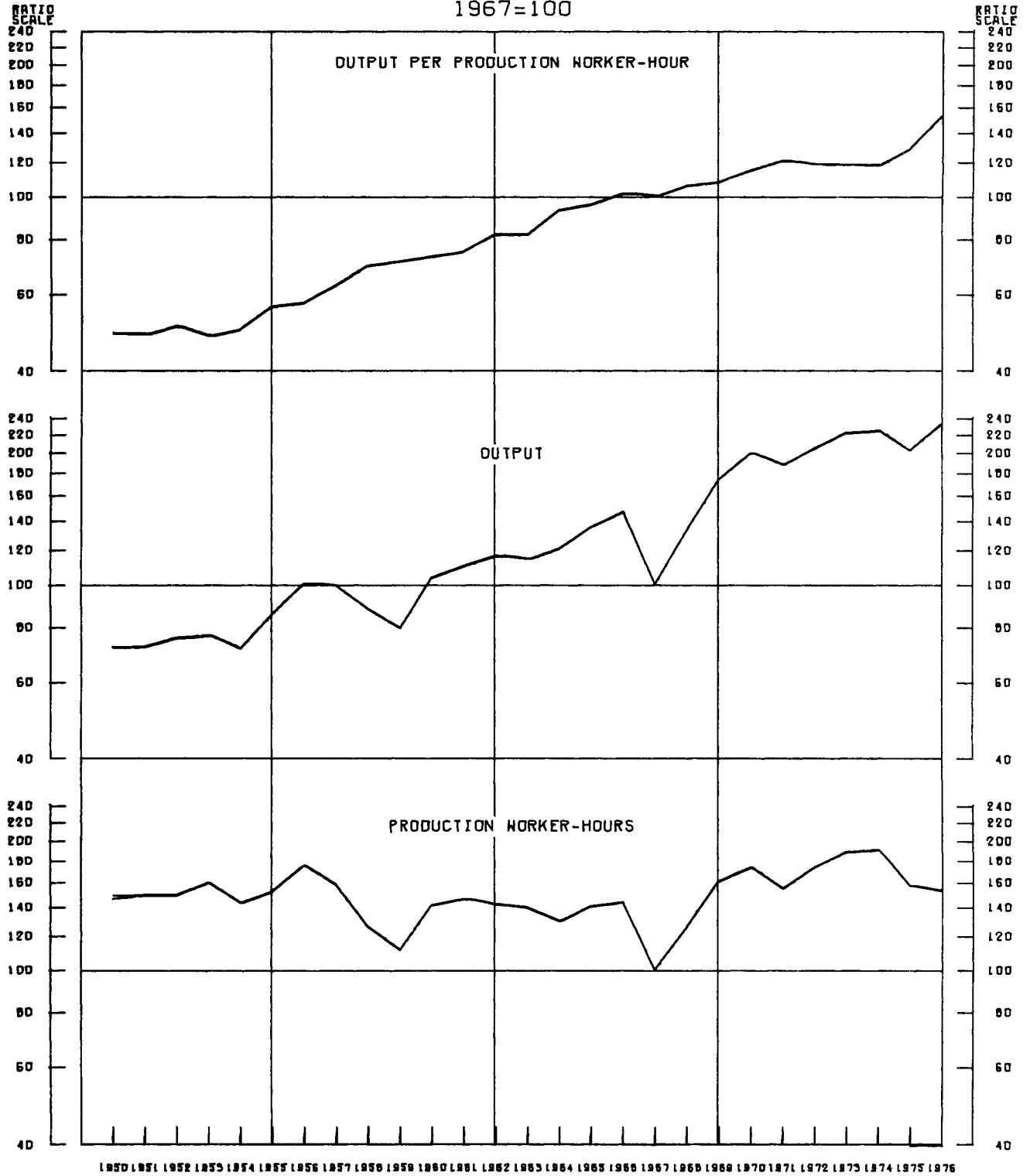
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 3
 IRON MINING, USABLE ORE (SIC 1011), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



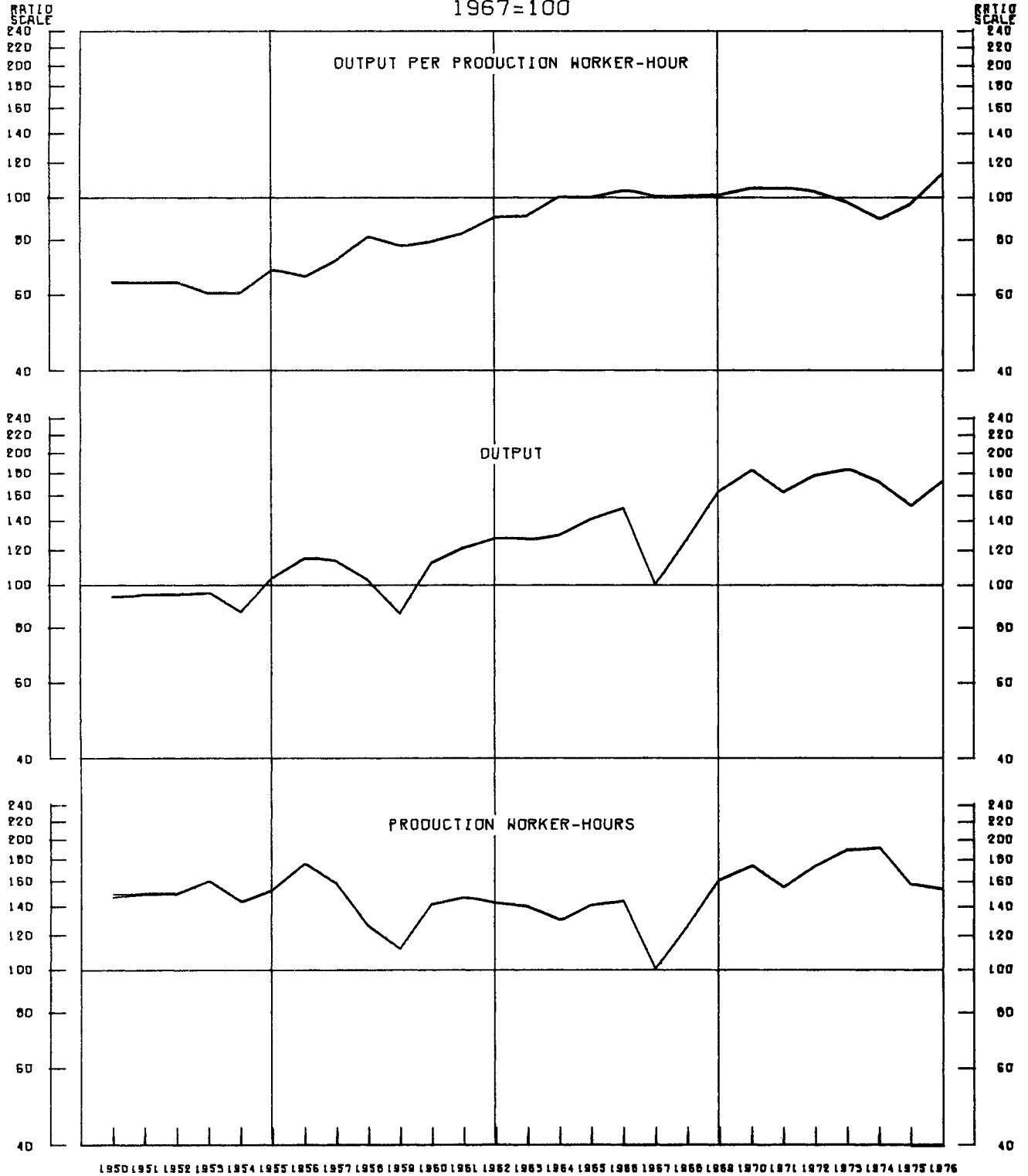
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 4
 COPPER MINING, CRUDE ORE (SIC 1021), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



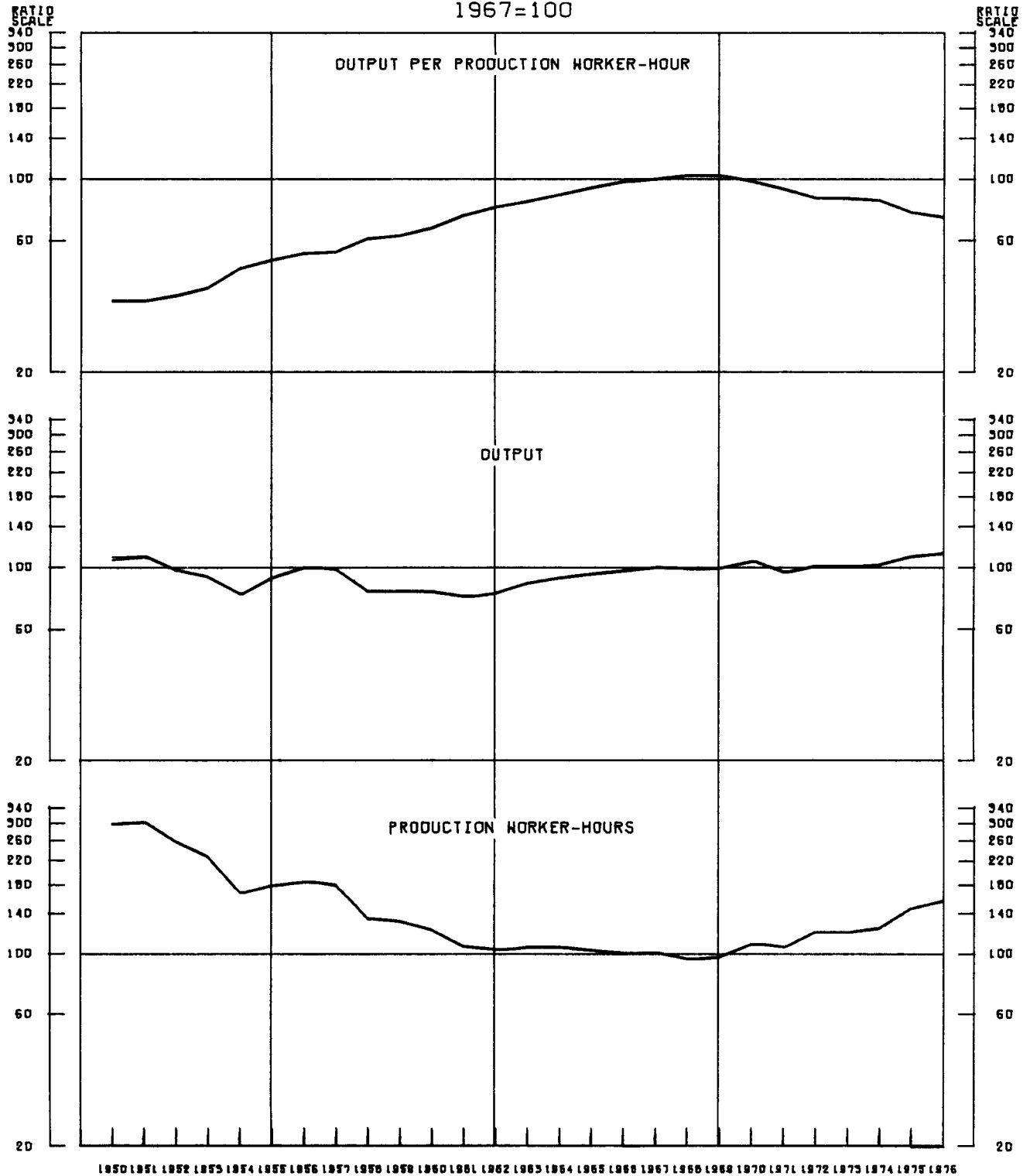
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 5
 COPPER MINING, RECOVERABLE METAL (SIC 1021), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



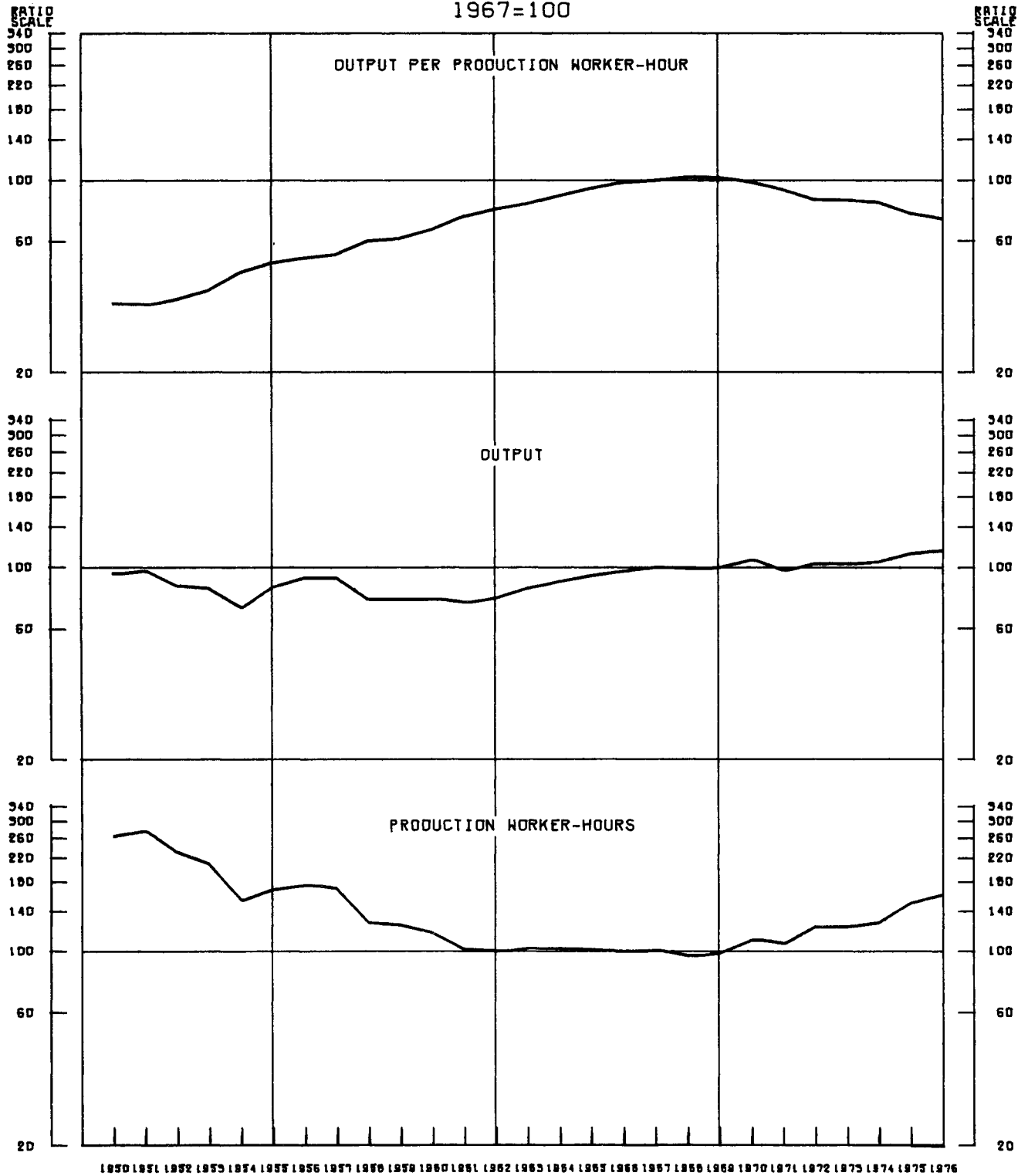
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 6
 COAL MINING (SIC 111, 121), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



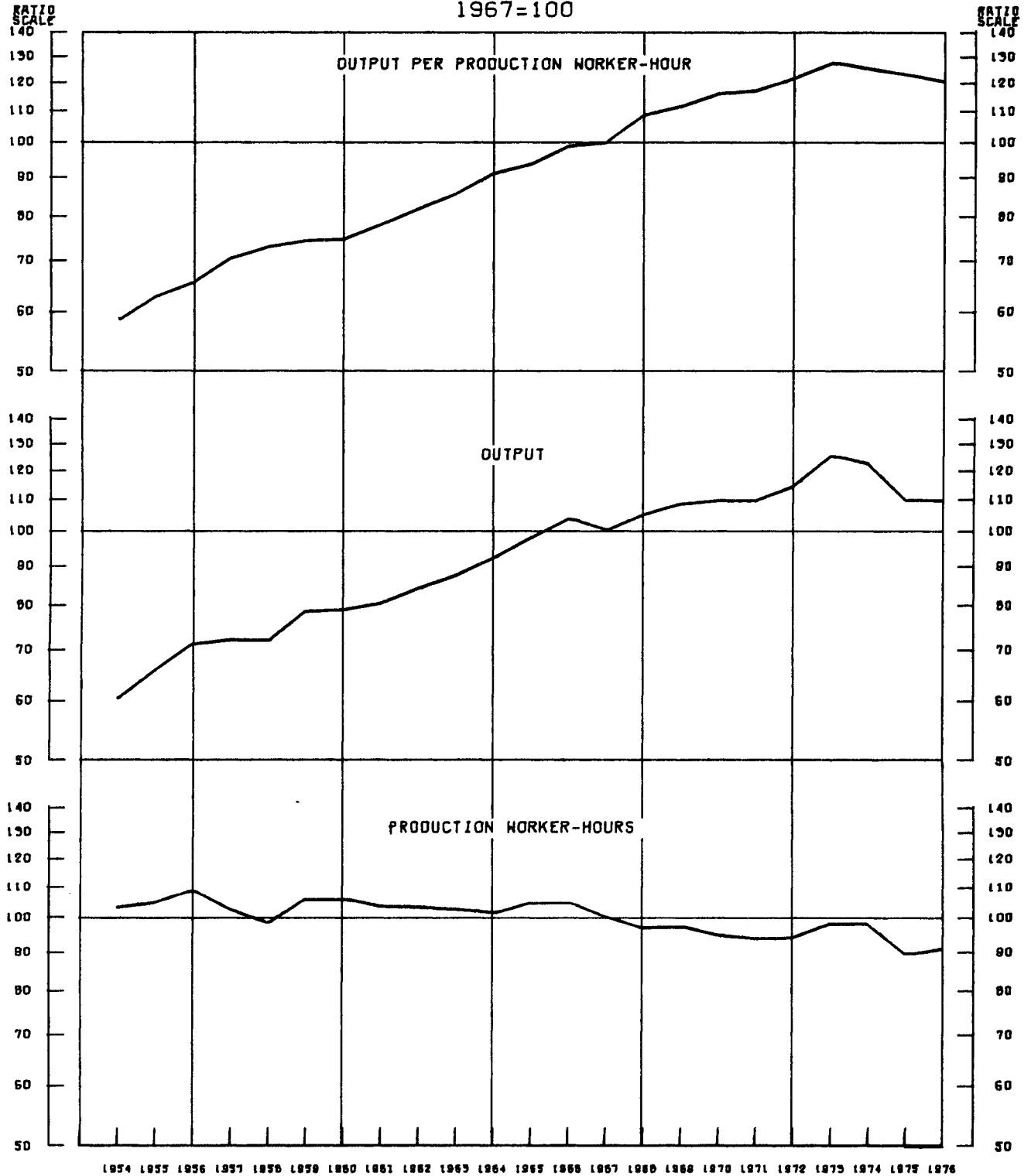
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 7
 BITUMINOUS COAL AND LIGNITE MINING (SIC 121), 1950-76
 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), 1954-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



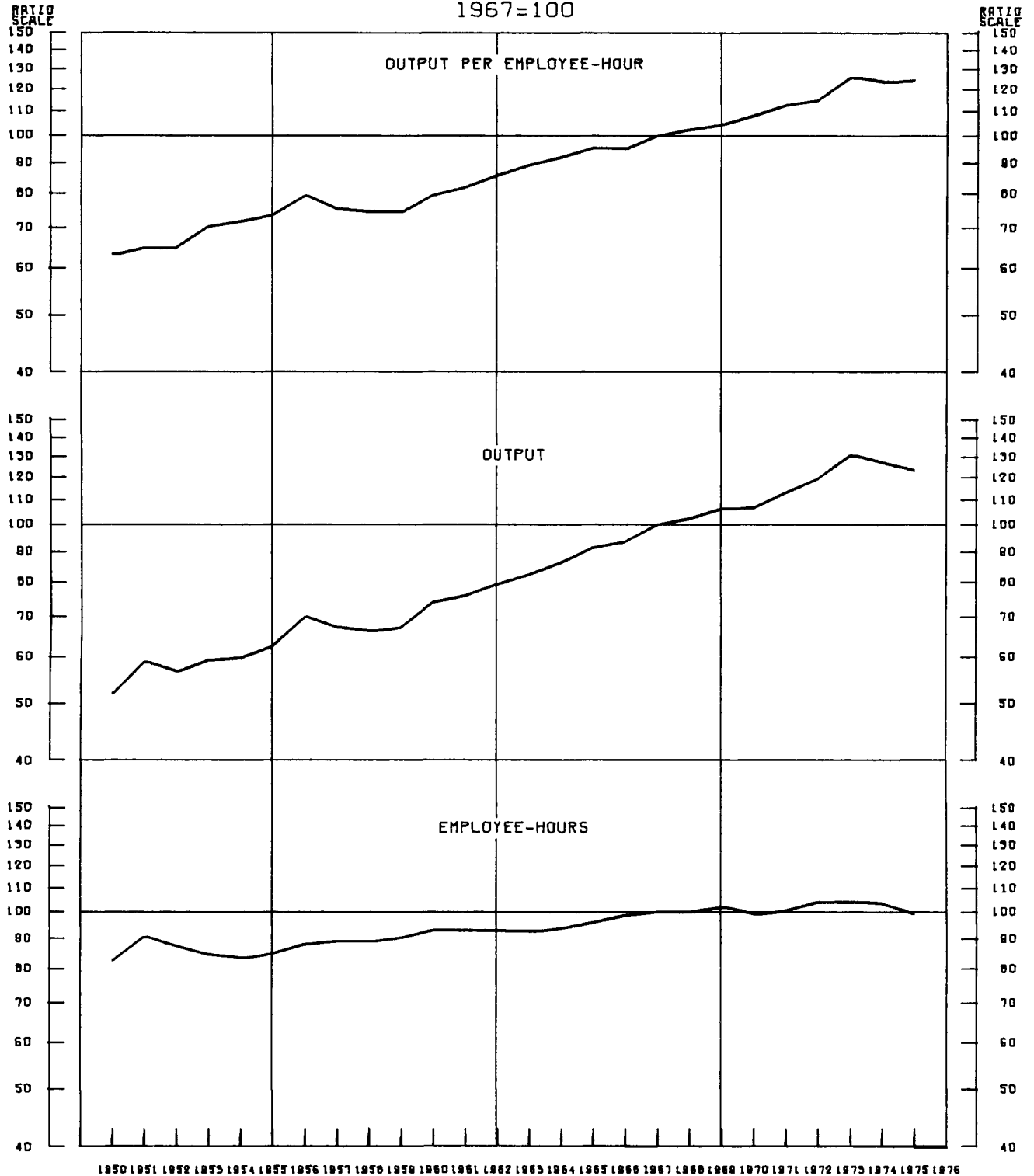
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 9
 CRUSHED AND BROKEN STONE (SIC 142), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



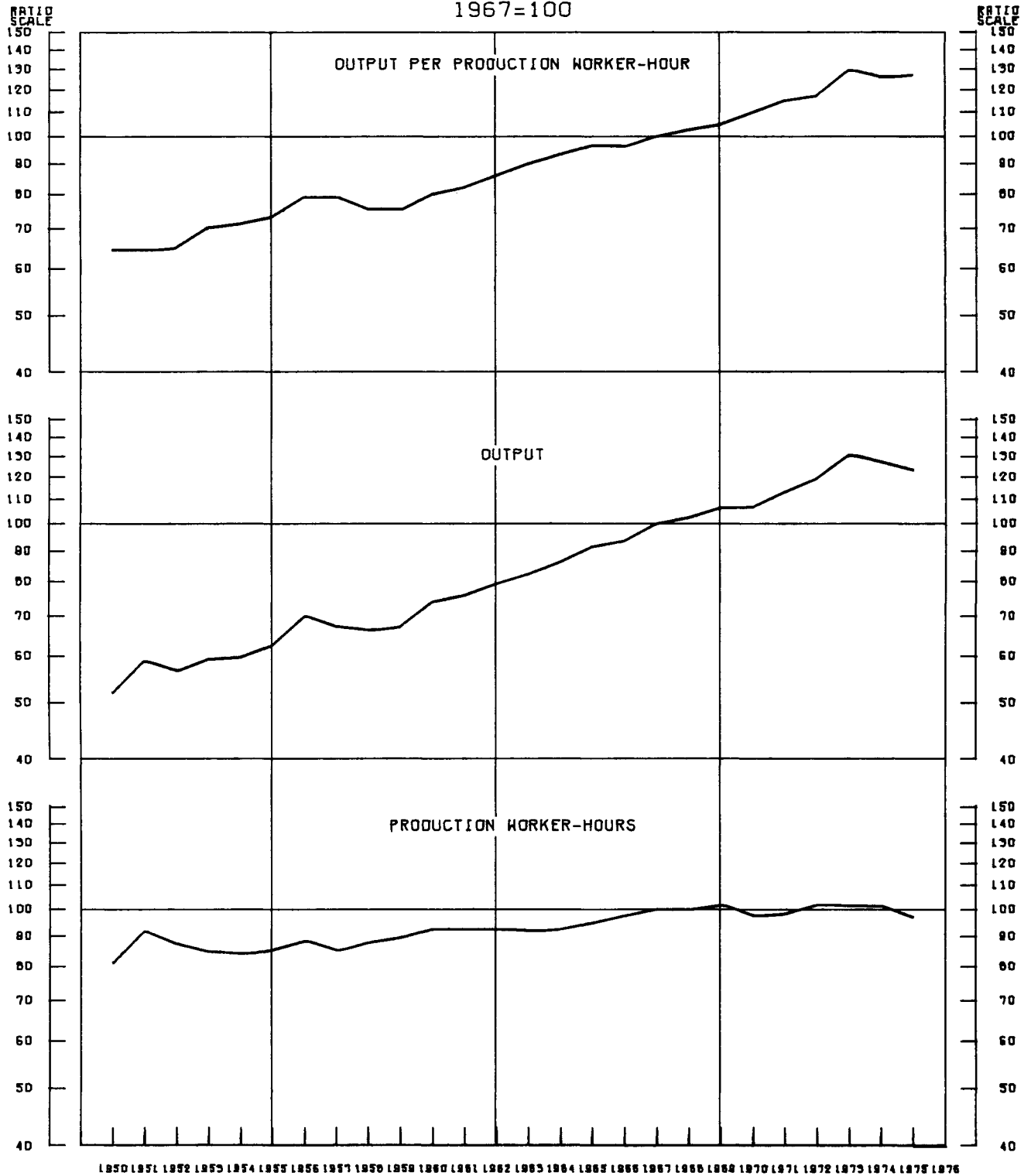
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 10
 CANNING AND PRESERVING (SIC 203), 1950-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



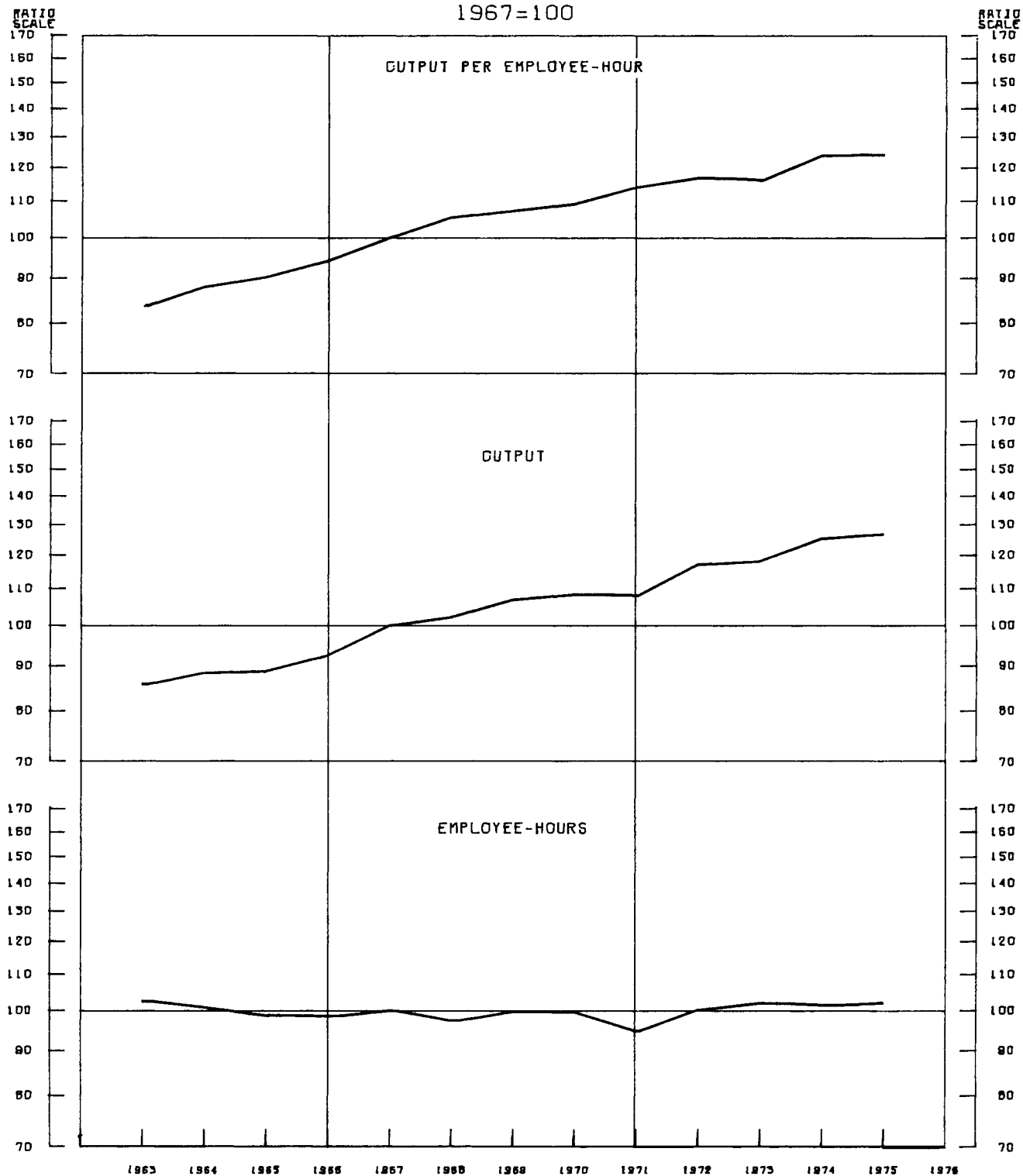
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 11
 CANNING AND PRESERVING (SIC 203), 1950-75
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



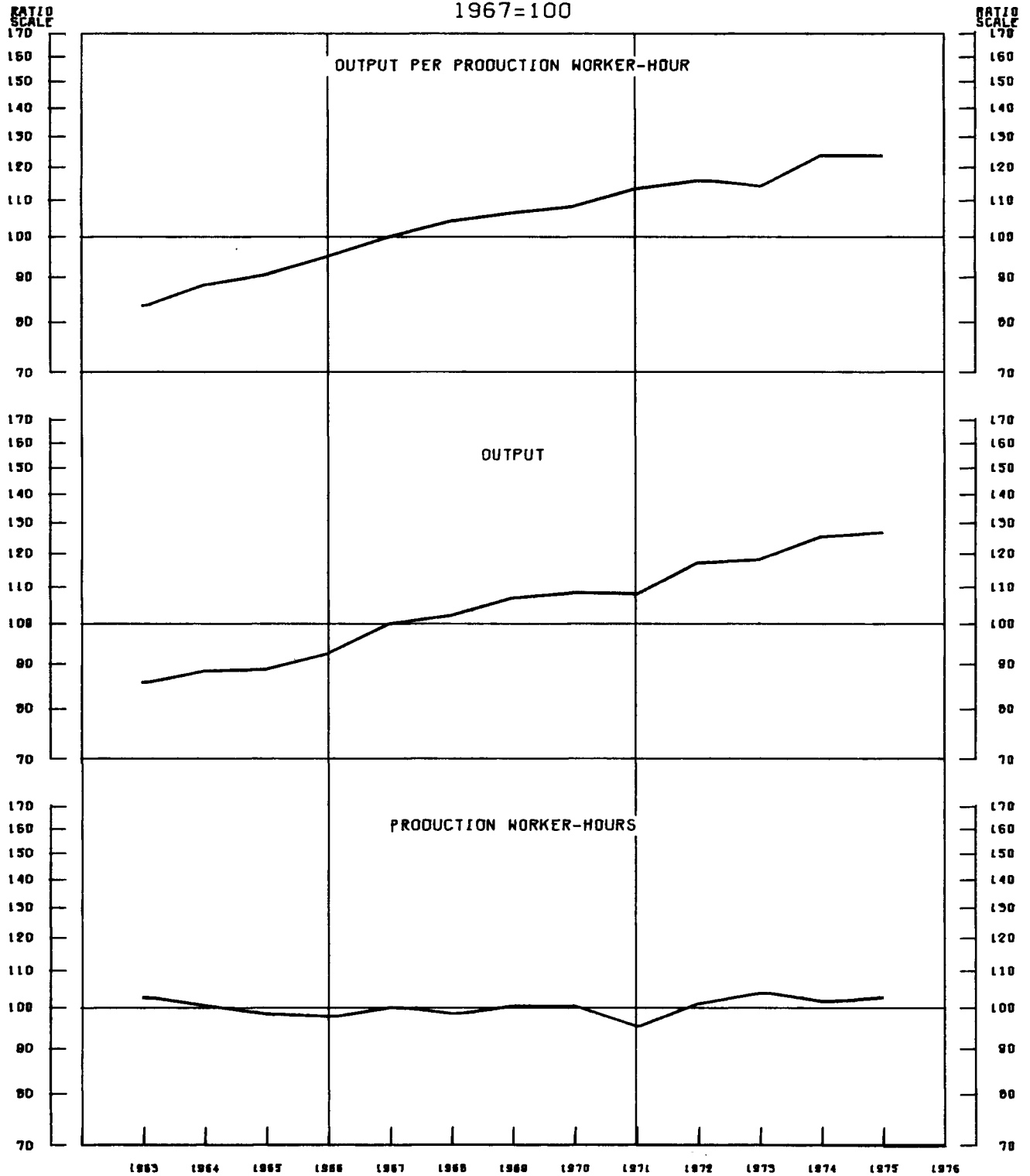
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

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



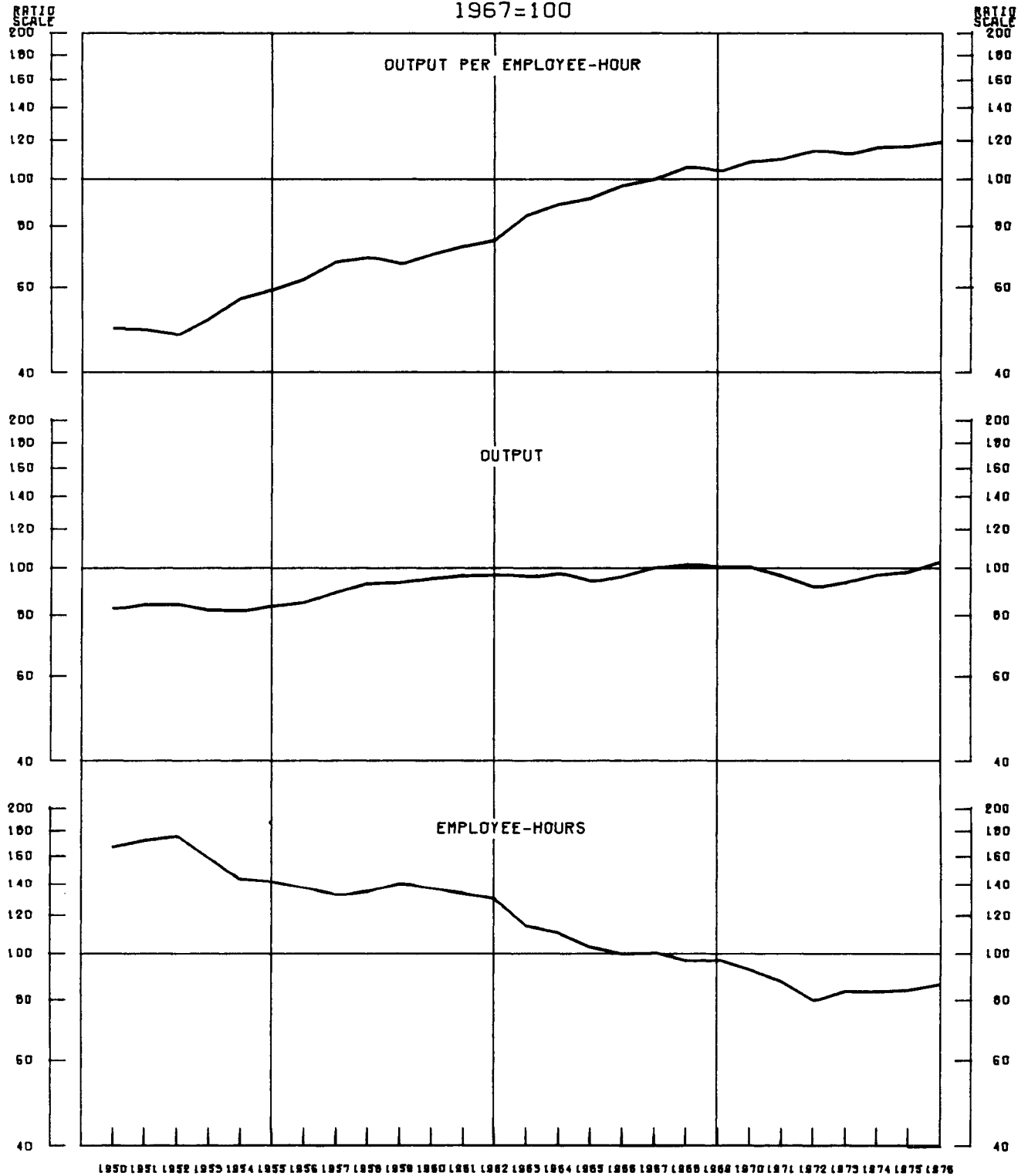
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

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



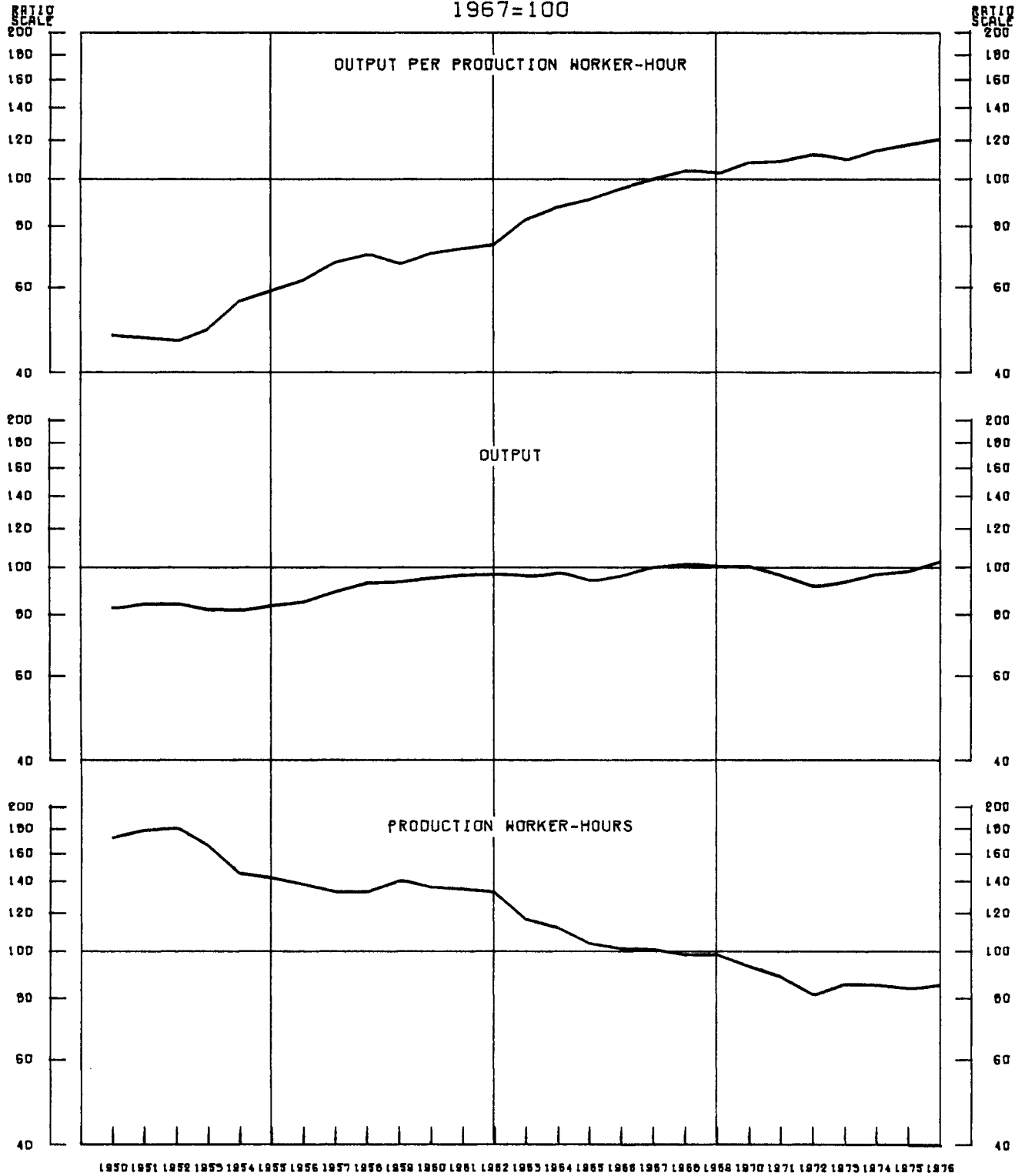
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 14
 FLOUR AND OTHER GRAIN MILL PRODUCTS (SIC 2041). 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



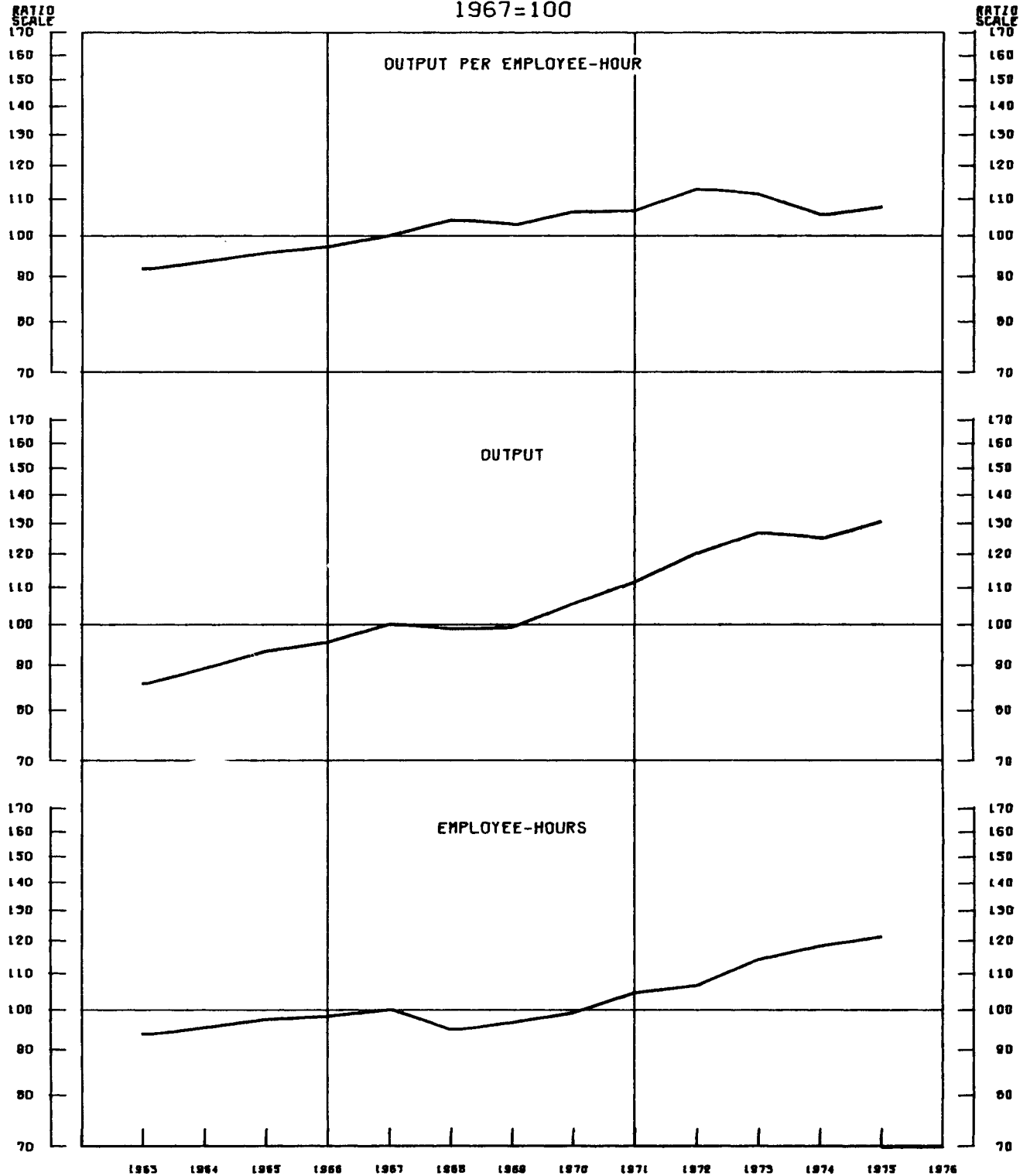
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 15
 FLOUR AND OTHER GRAIN MILL PRODUCTS (SIC 2041), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



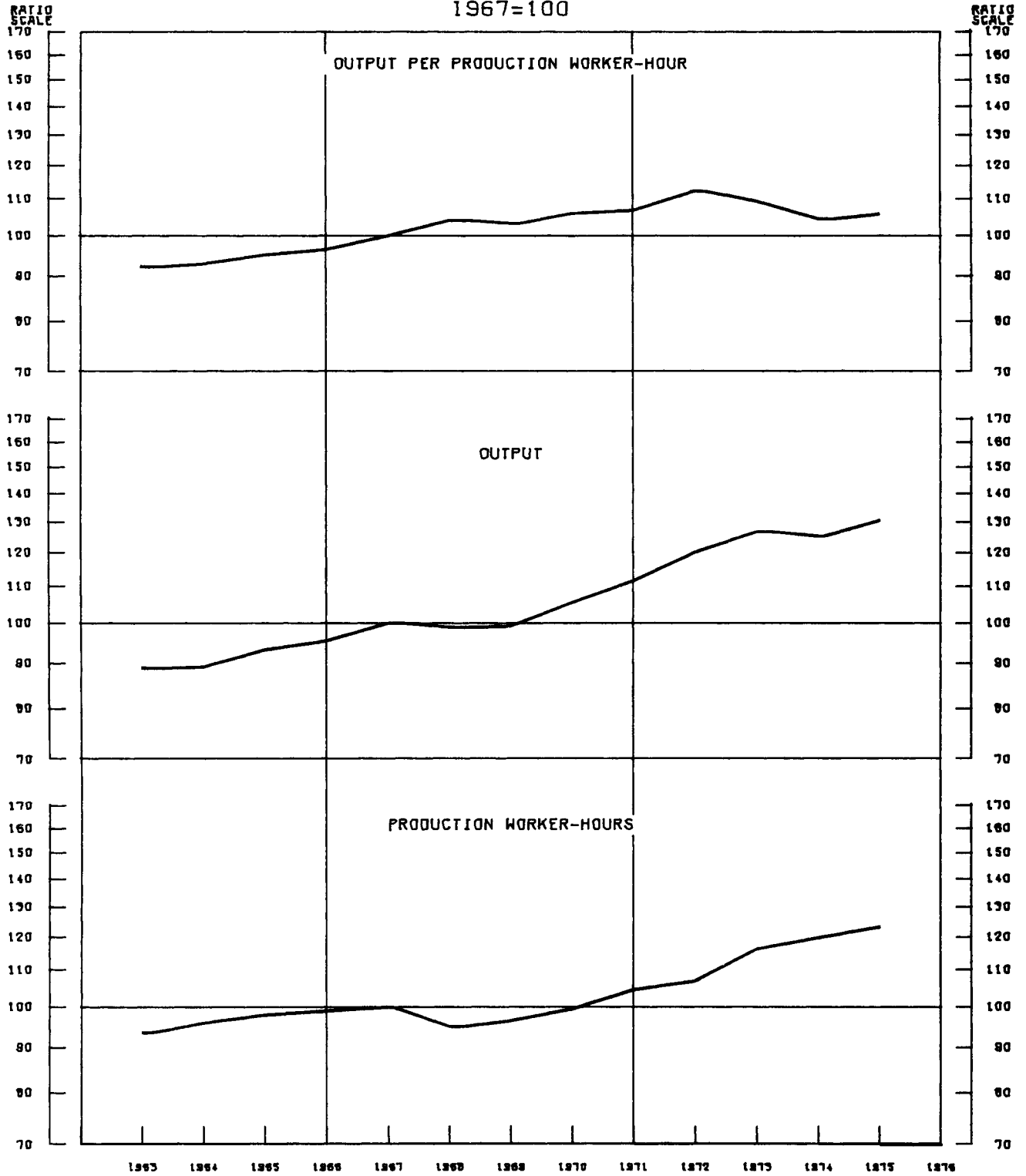
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 16
 CEREAL BREAKFAST FOODS (SIC 2043). 1963-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



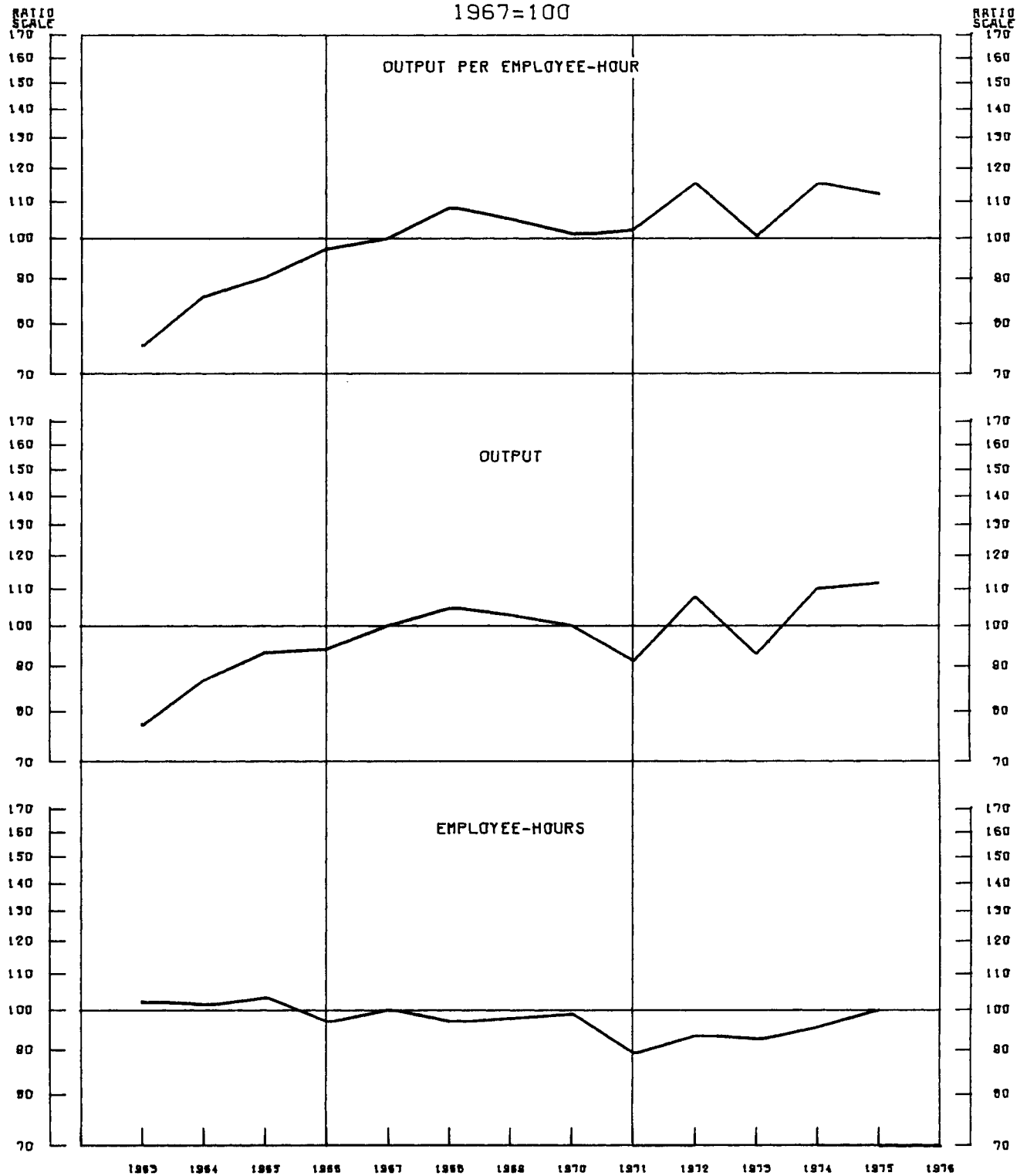
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 17
 CEREAL BREAKFAST FOODS (SIC 2043), 1963-75
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



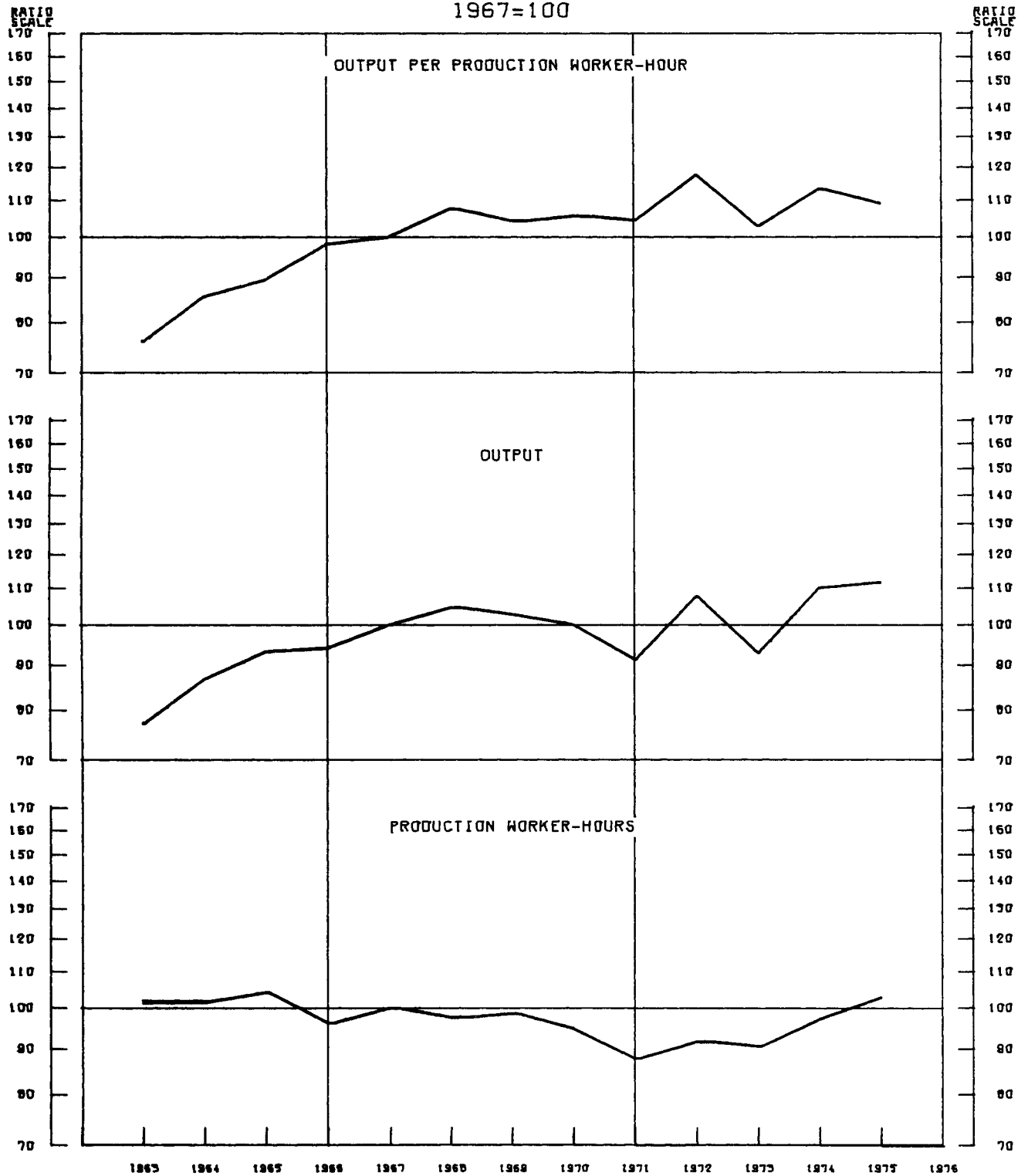
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 18
 RICE MILLING (SIC 2044), 1963-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



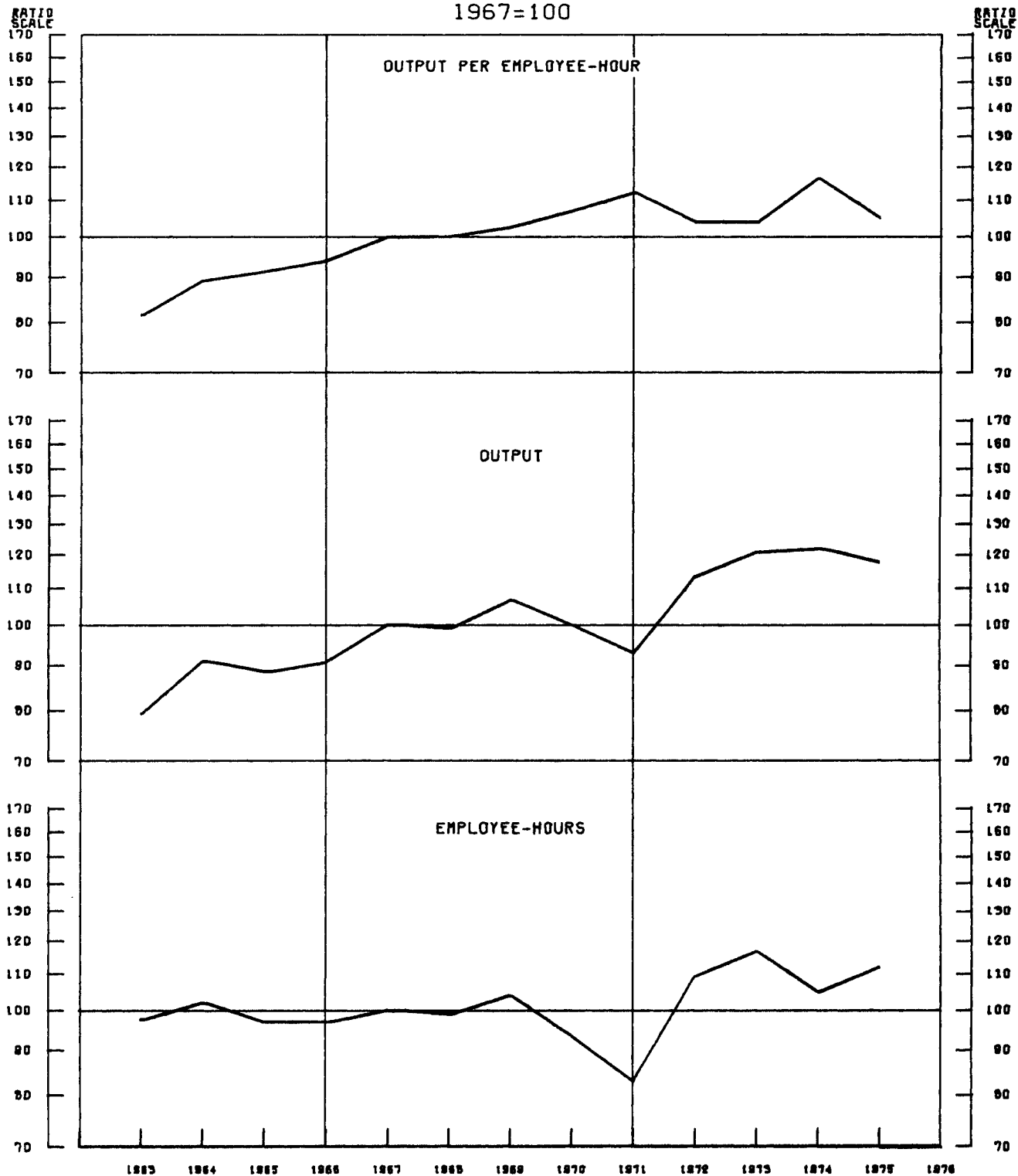
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 19
 RICE MILLING (SIC 2044), 1963-75
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



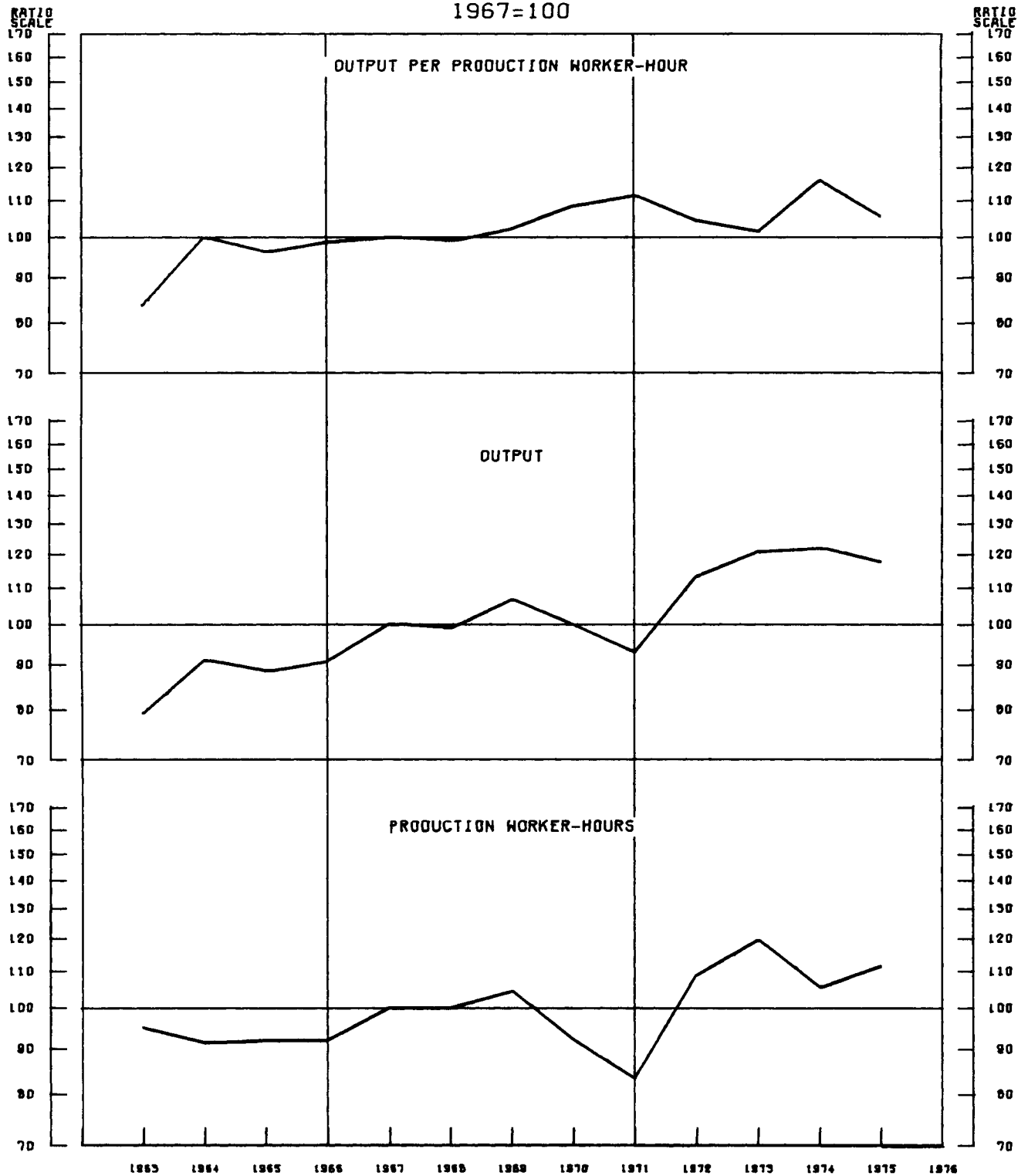
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 20
 BLENDED AND PREPARED FLOUR (SIC 2045), 1963-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



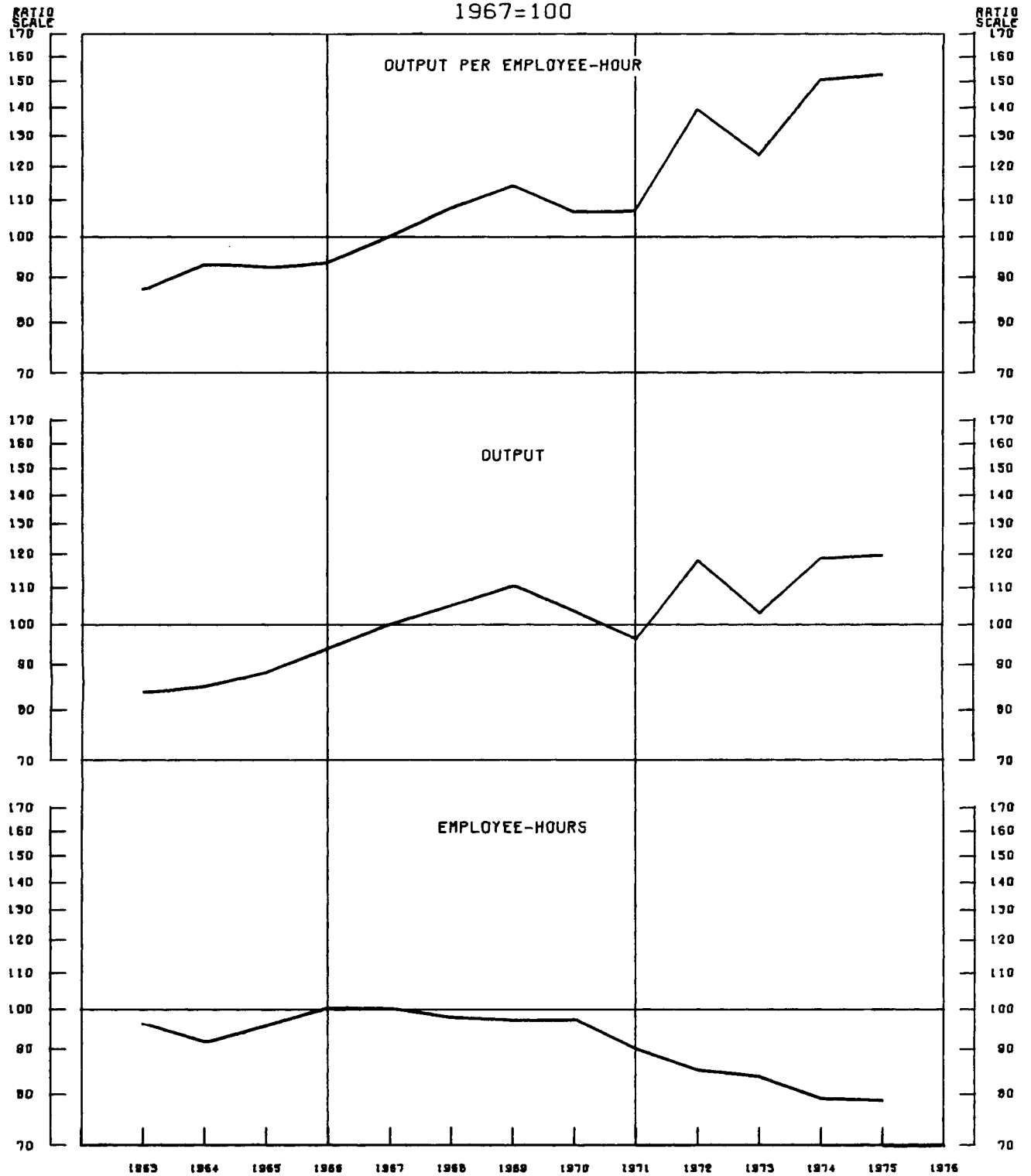
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 21
 BLENDED AND PREPARED FLOUR (SIC 2045), 1963-75
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



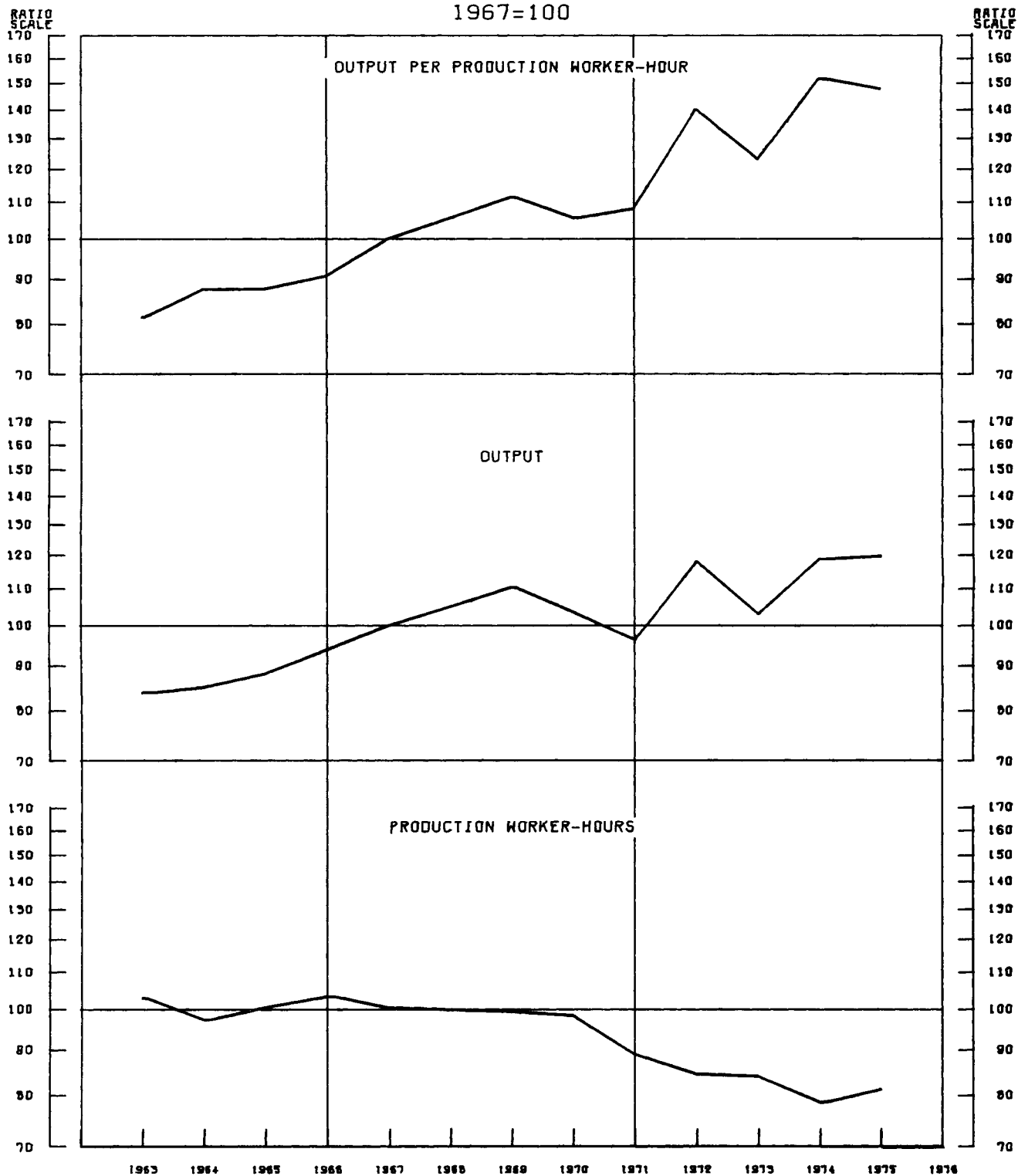
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 22
 WET CORN MILLING (SIC 2046), 1963-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



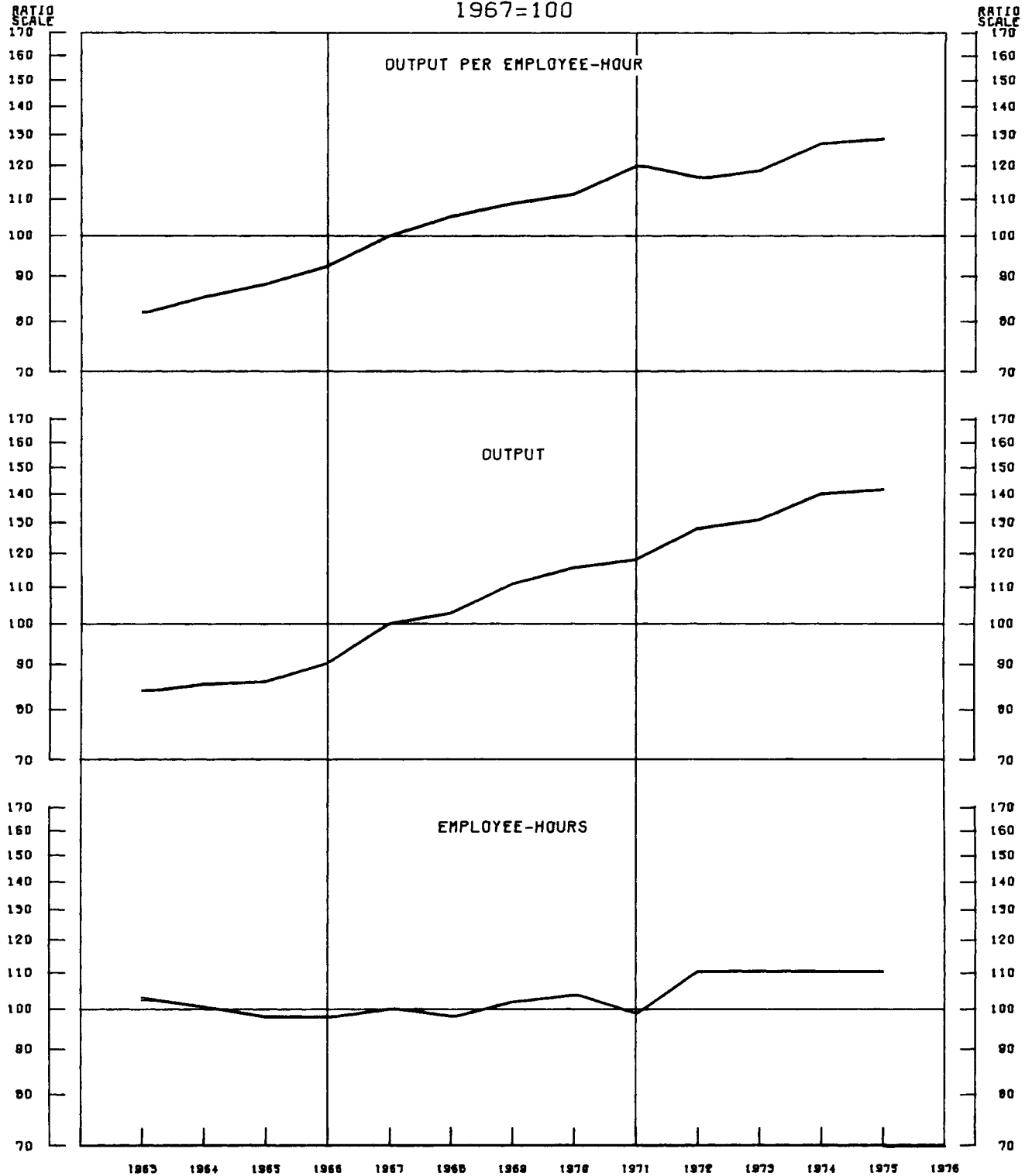
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 23
 WET CORN MILLING (SIC 2046), 1963-75
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



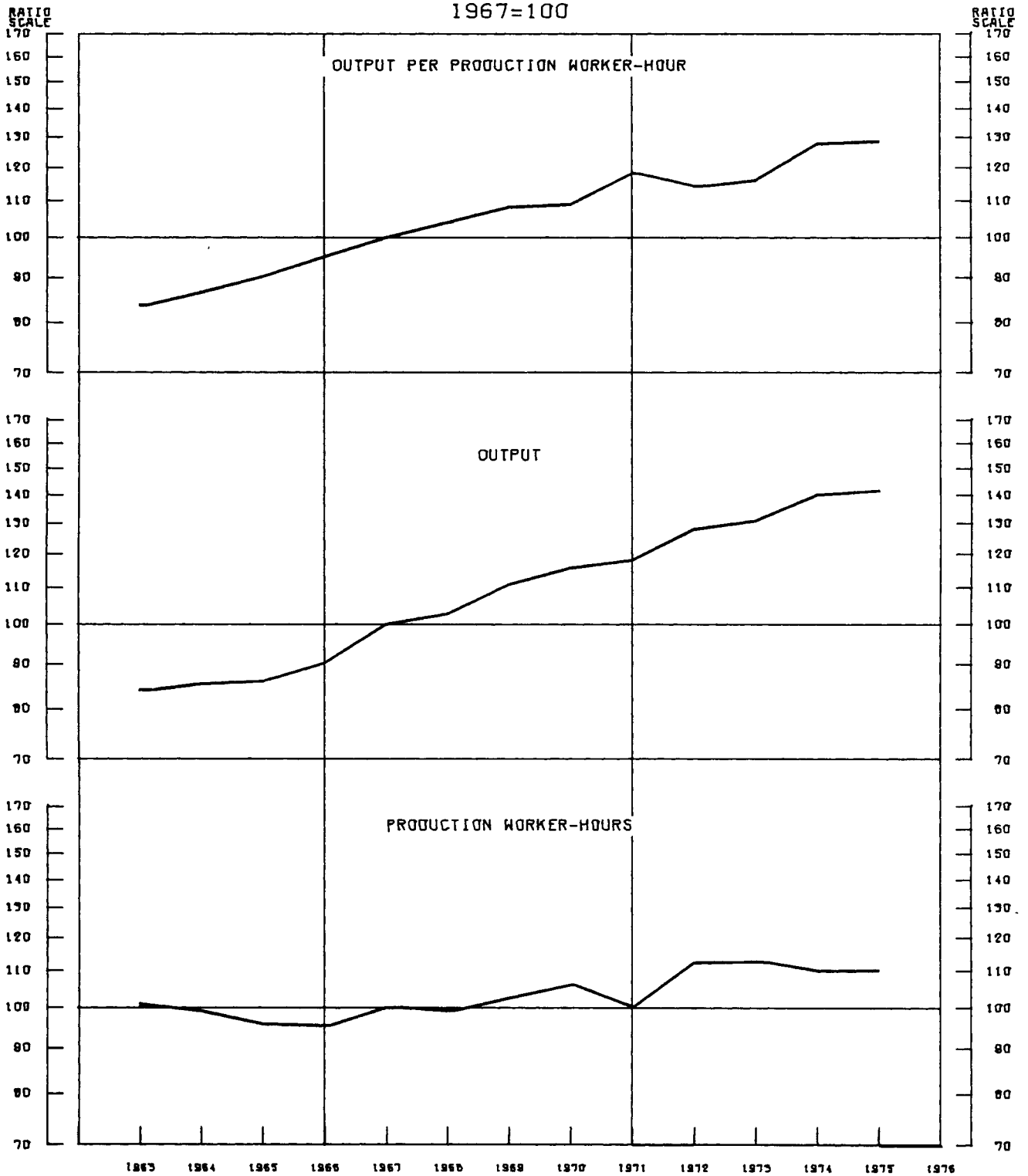
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 24
 PREPARED FEEDS FOR ANIMALS AND FOWLS (SIC 2047, 48), 1963-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



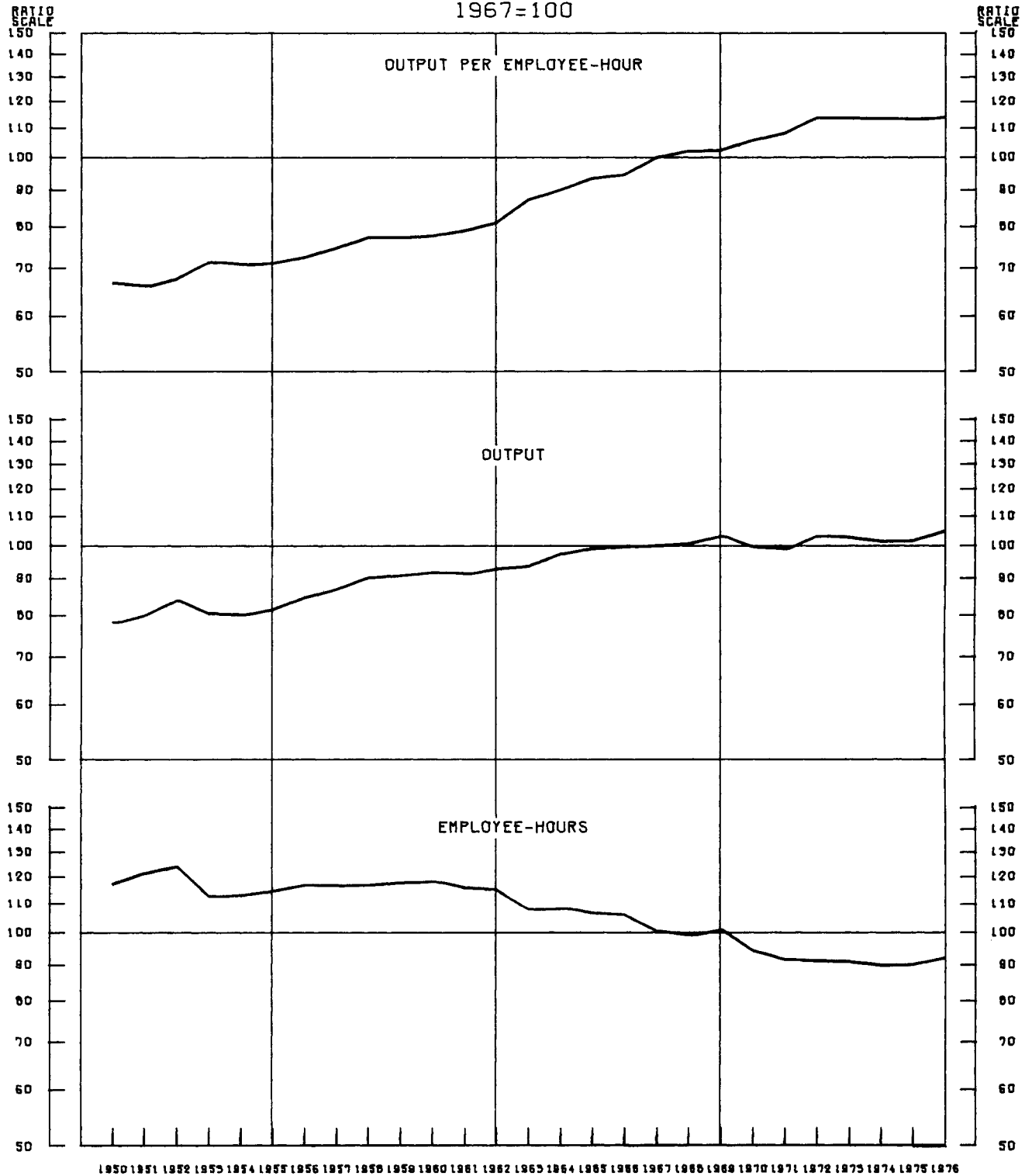
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 25
 PREPARED FEEDS FOR ANIMALS AND FOWLS (SIC 2047, 48), 1963-75
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



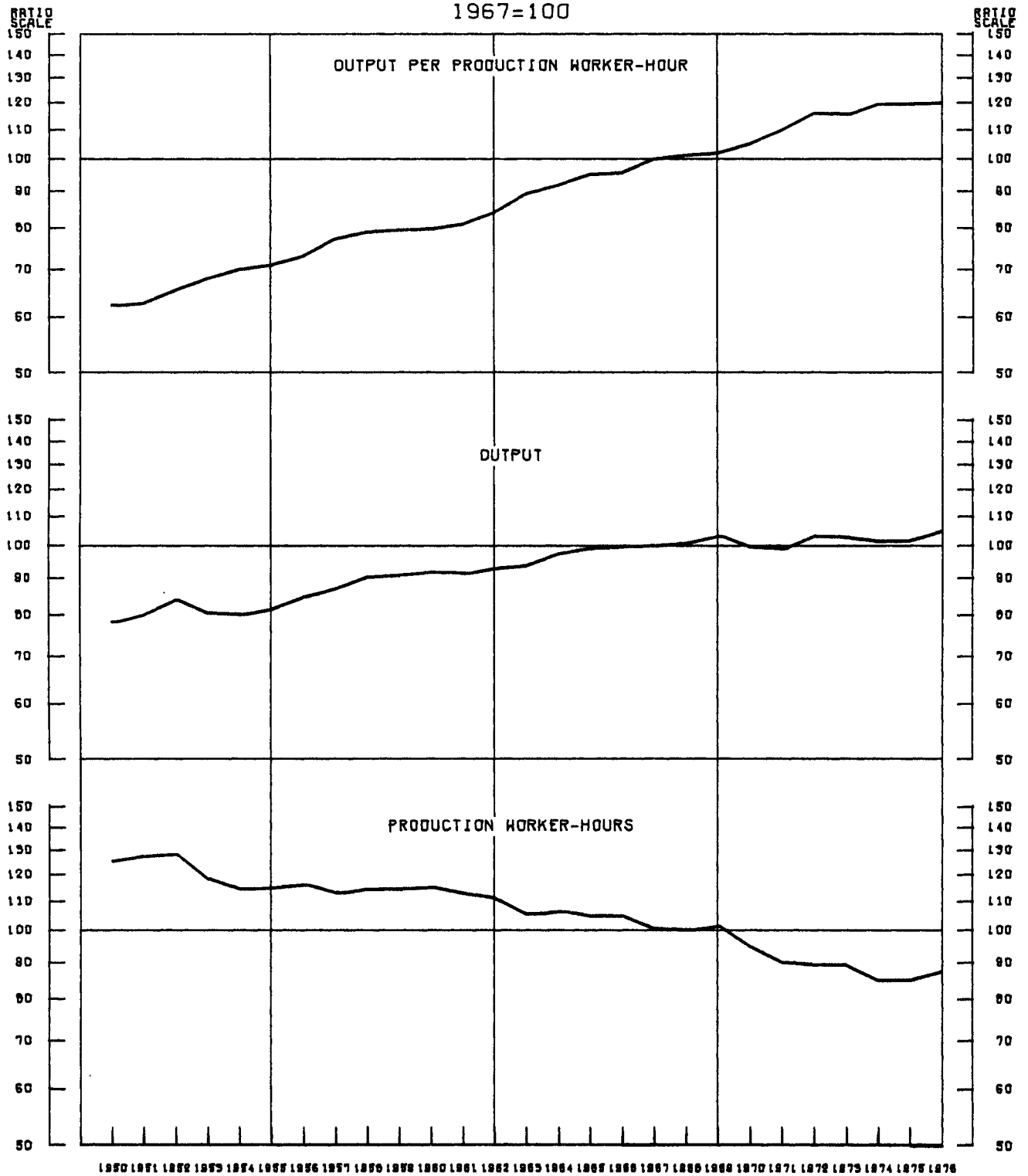
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 26
 BAKERY PRODUCTS (SIC 205), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



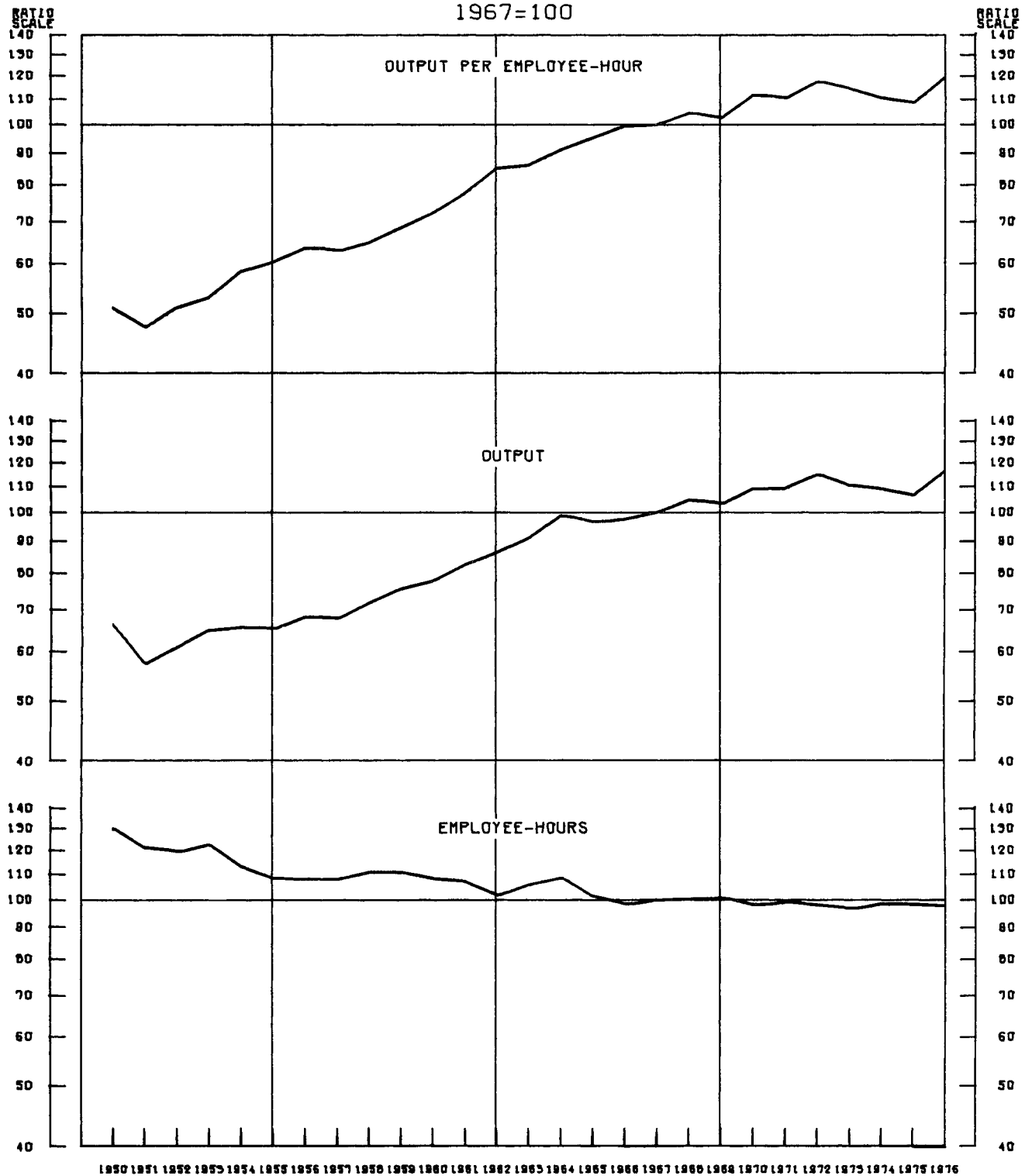
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 27
 BAKERY PRODUCTS (SIC 205), 1950-76
 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), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



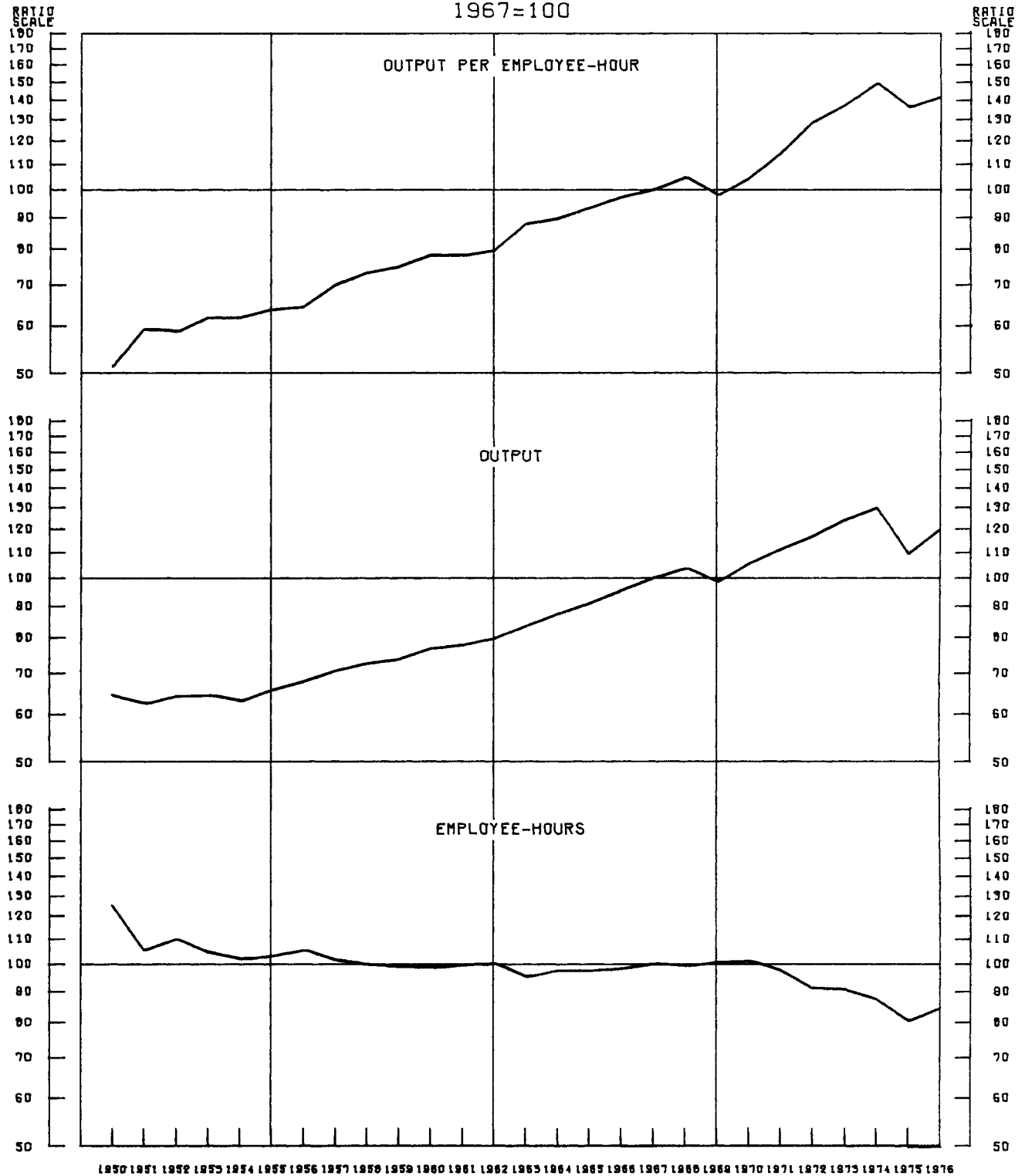
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 29
 SUGAR (SIC 2061, 2062, 2063), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



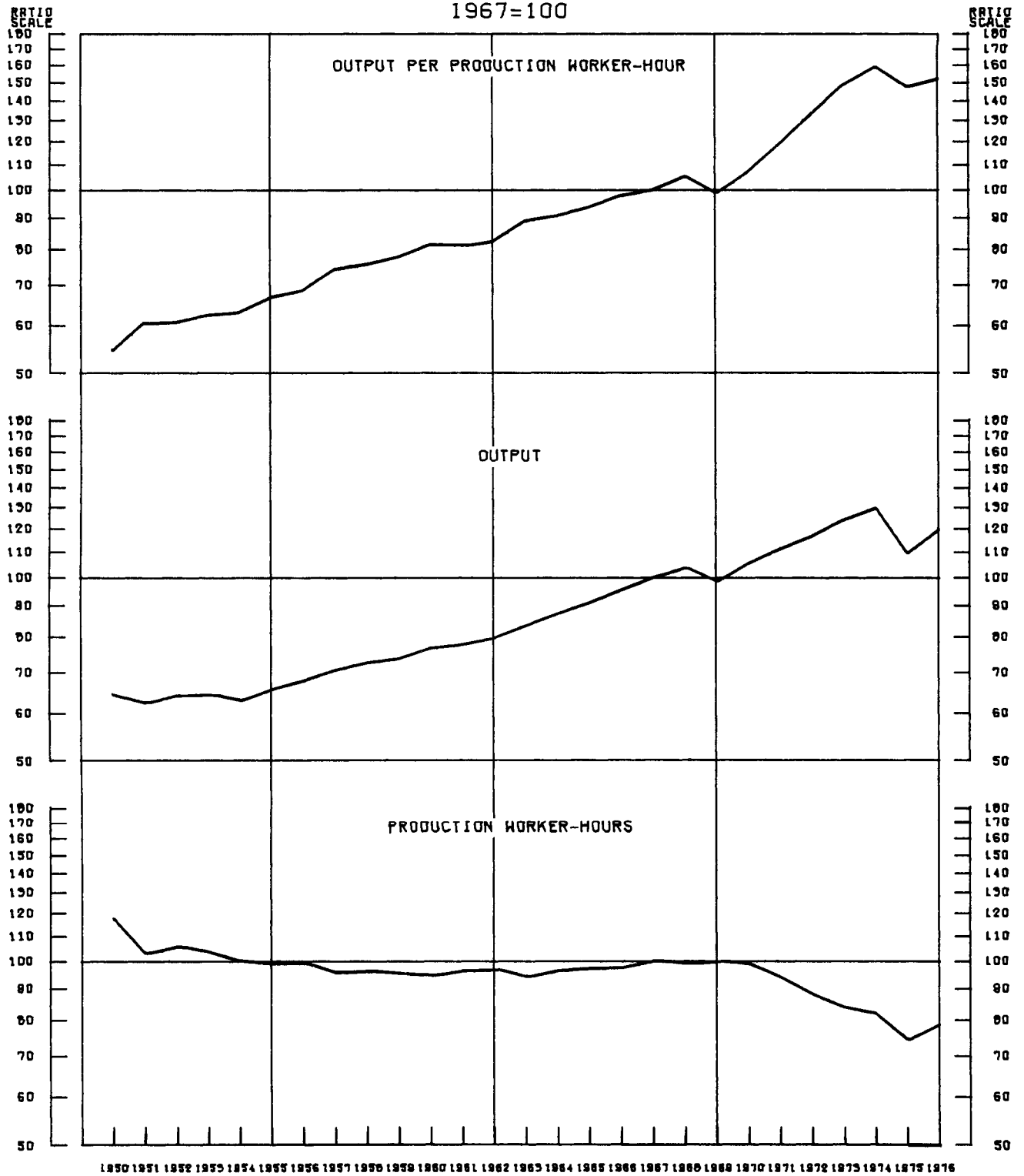
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 30
 CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2065). 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



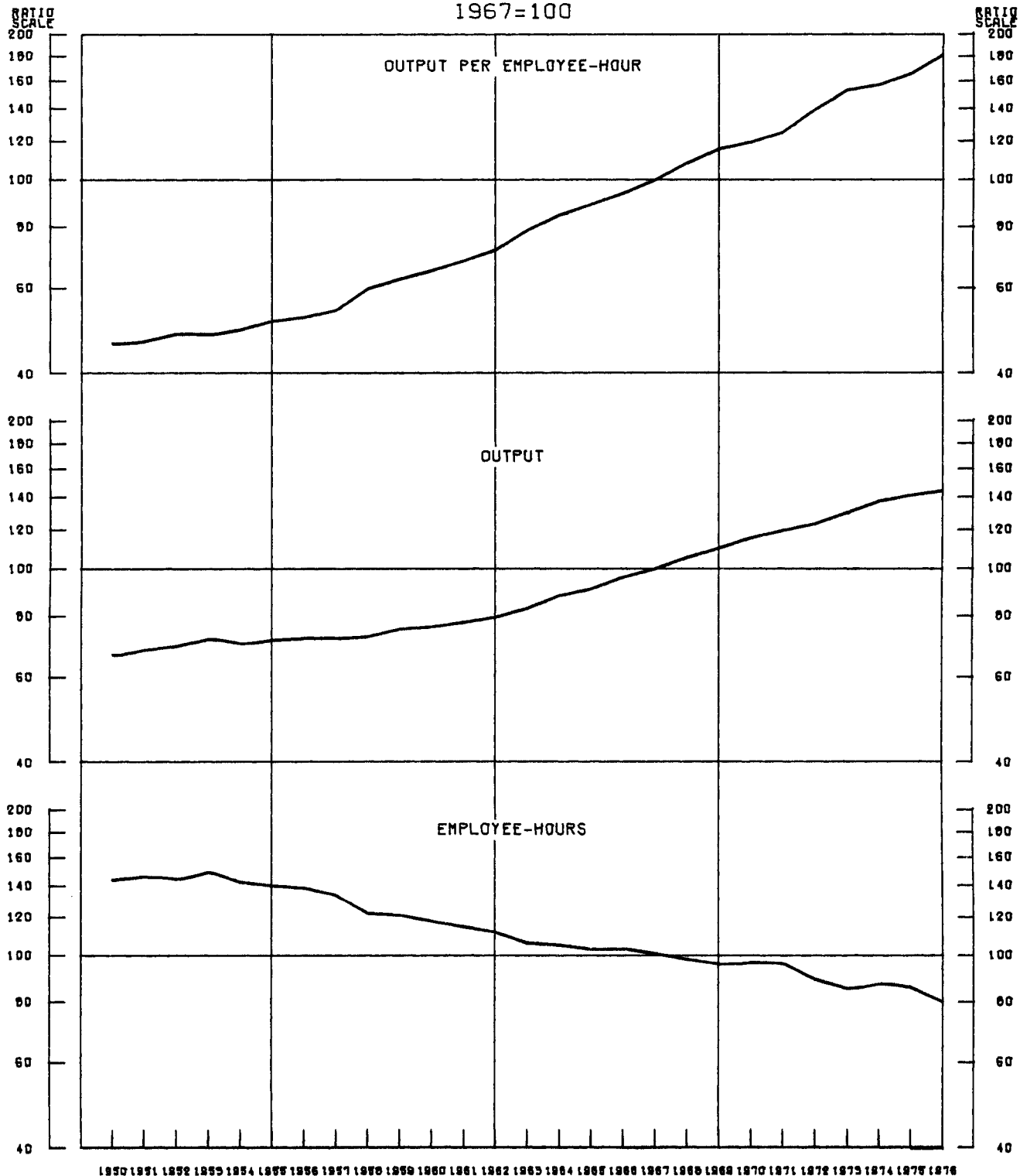
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 31
 CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2065), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



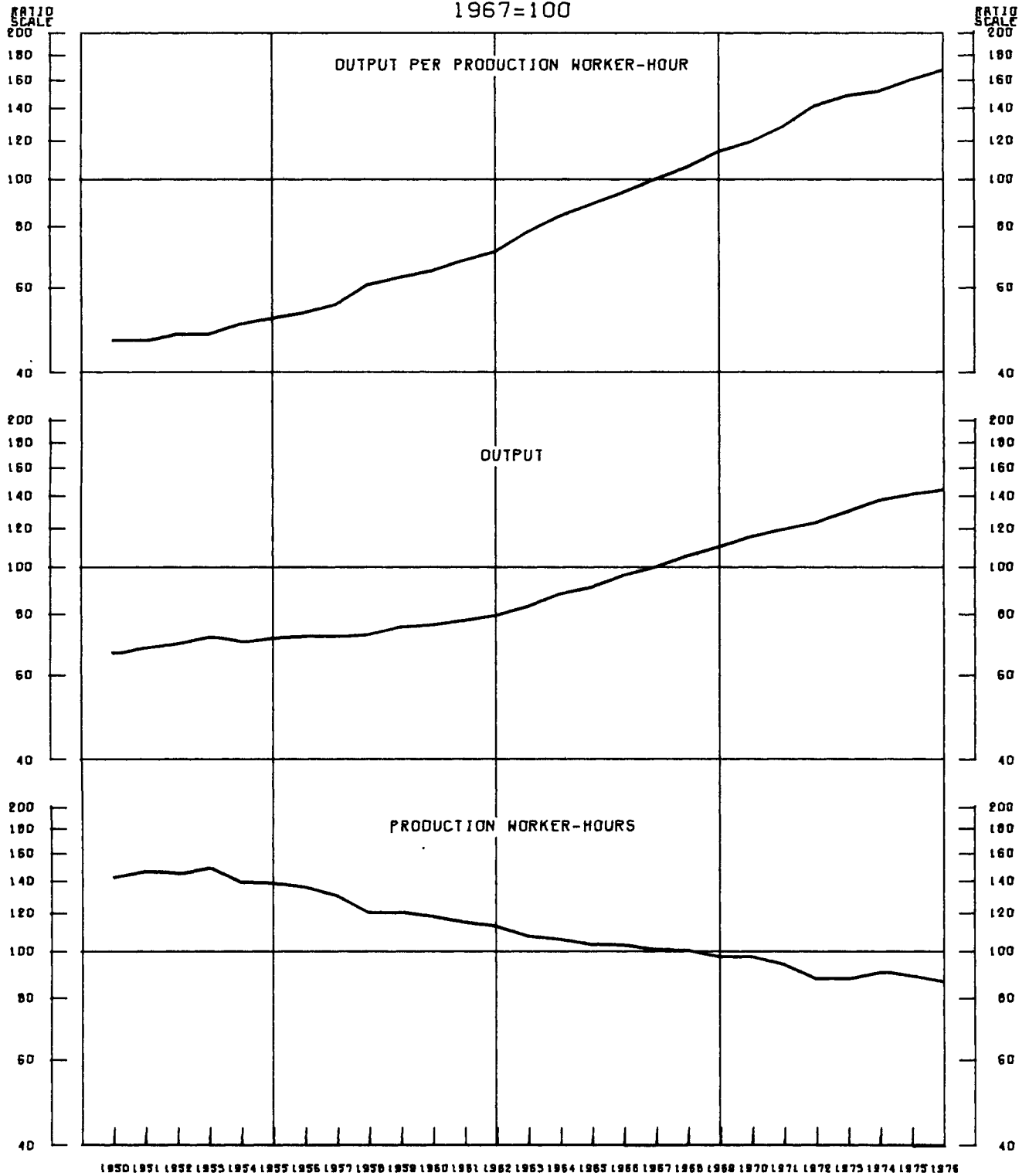
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 32
MALT BEVERAGES (SIC 2082), 1950-76
OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
1967=100



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

CHART 33
 MALT BEVERAGES (SIC 2082), 1950-76
 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), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



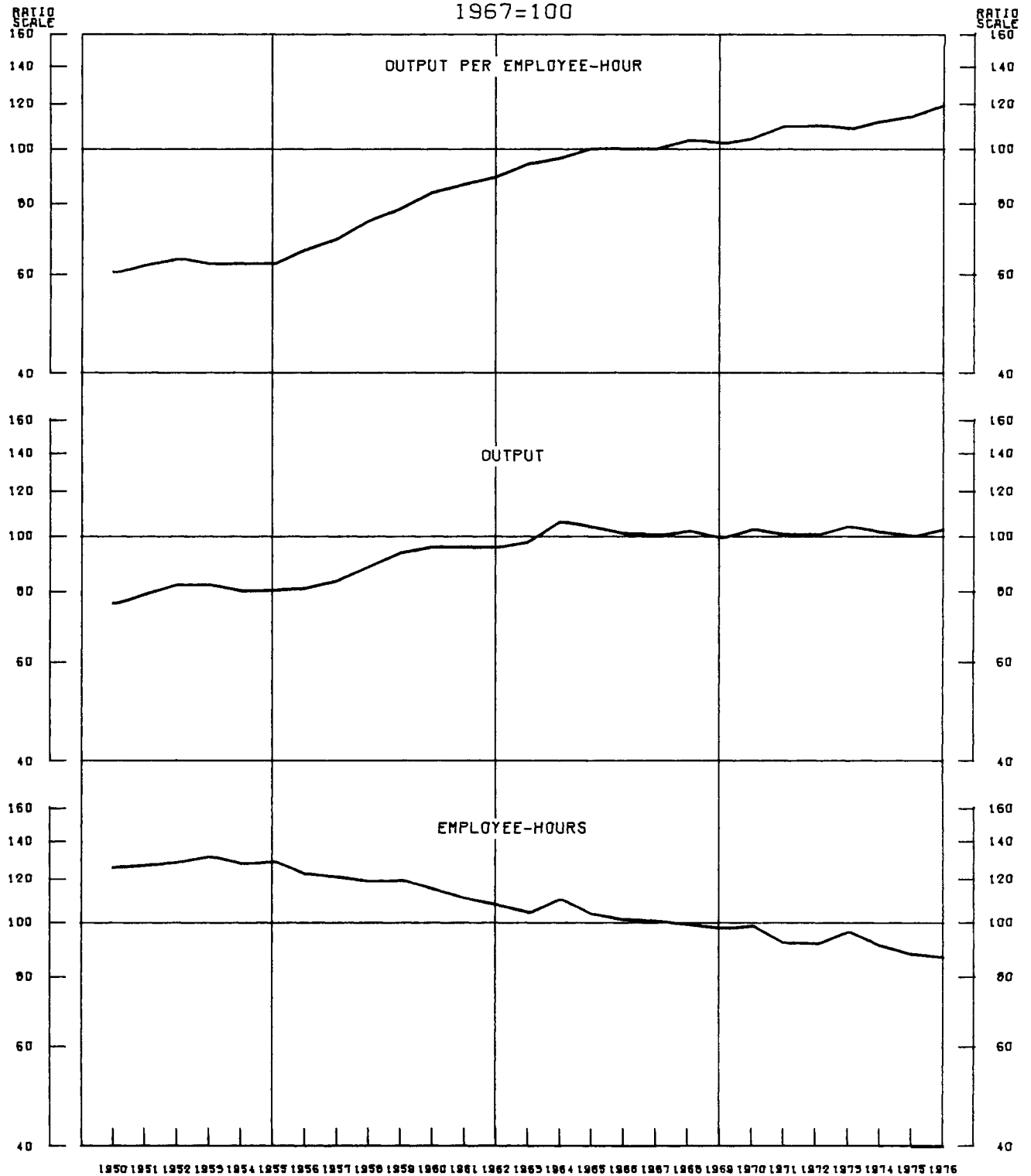
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 35
 BOTTLED AND CANNED SOFT DRINKS (SIC 2086), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



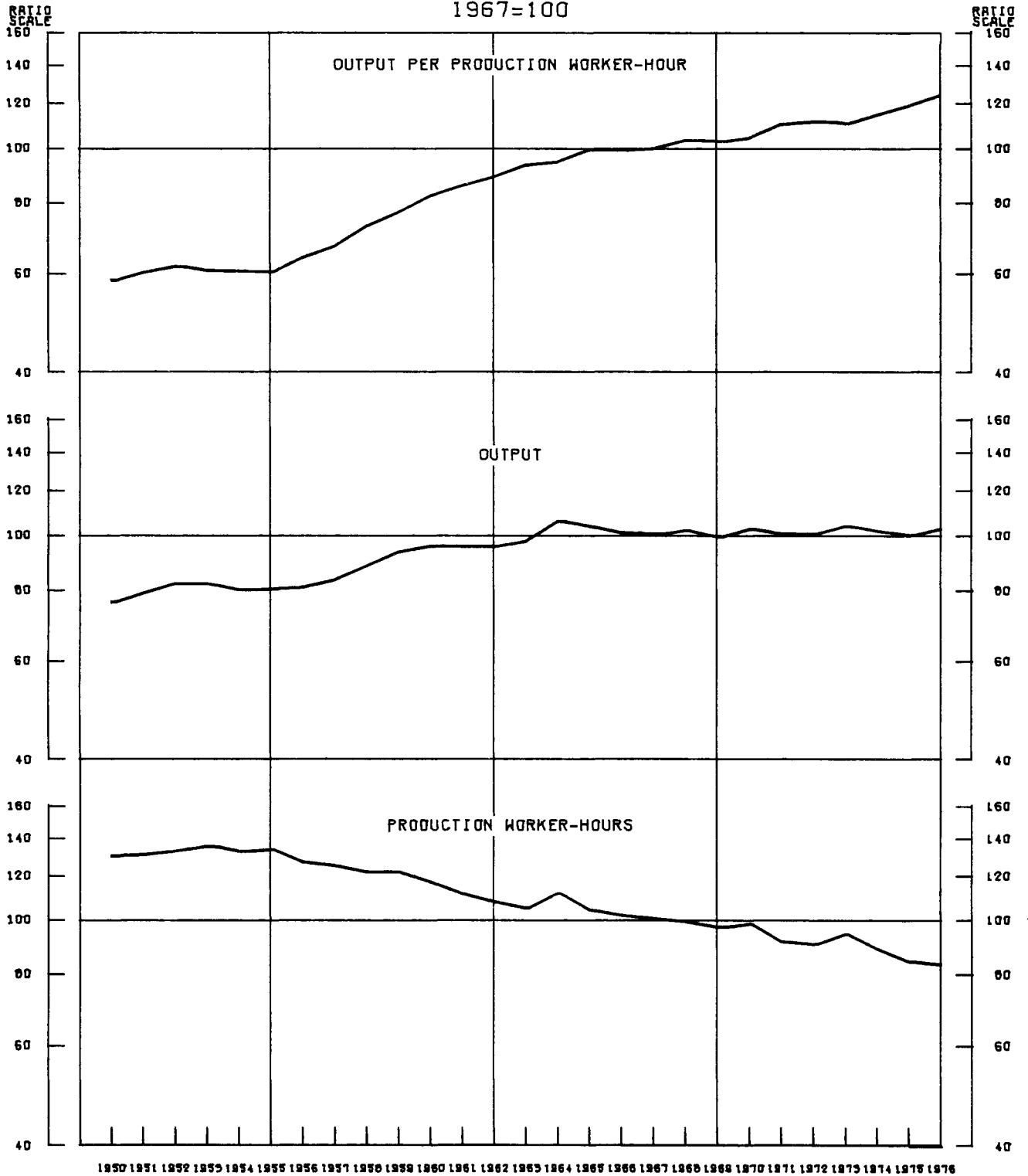
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 36
 TOBACCO PRODUCTS-TOTAL (SIC 2111, 2121, 2131), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



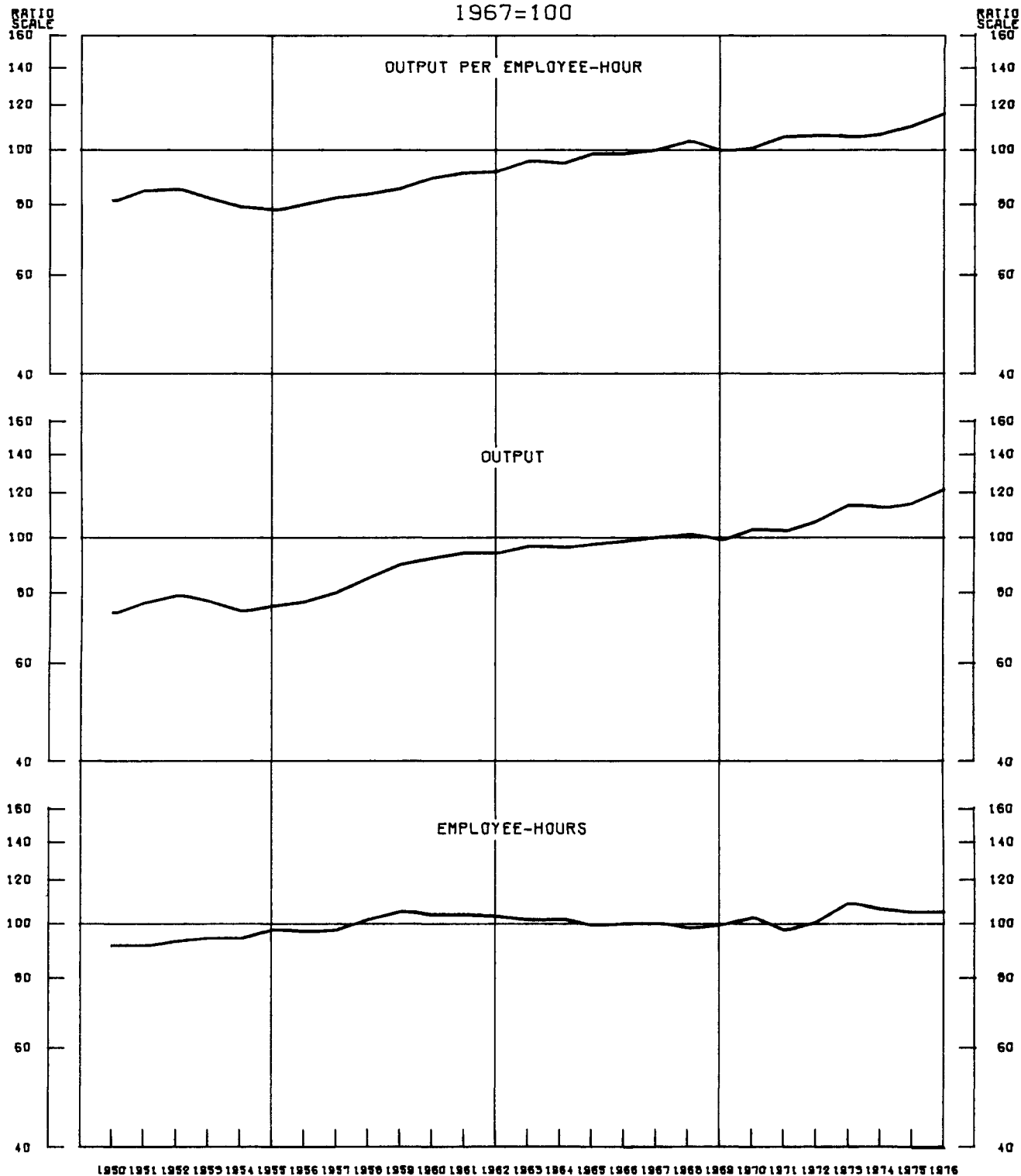
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 37
 TOBACCO PRODUCTS-TOTAL (SIC 2111, 2121, 2131), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



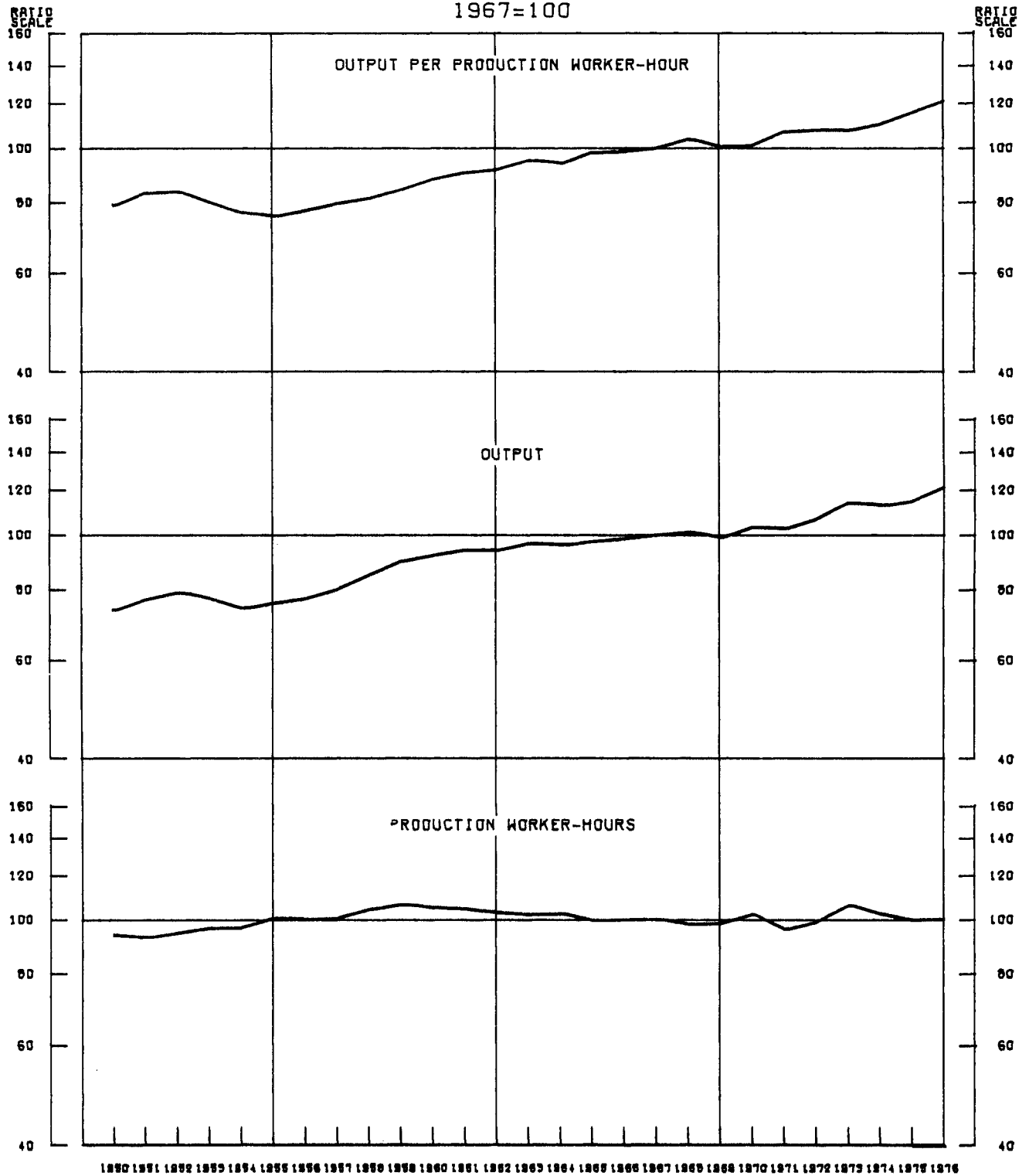
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 38
 CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 2111, 31), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



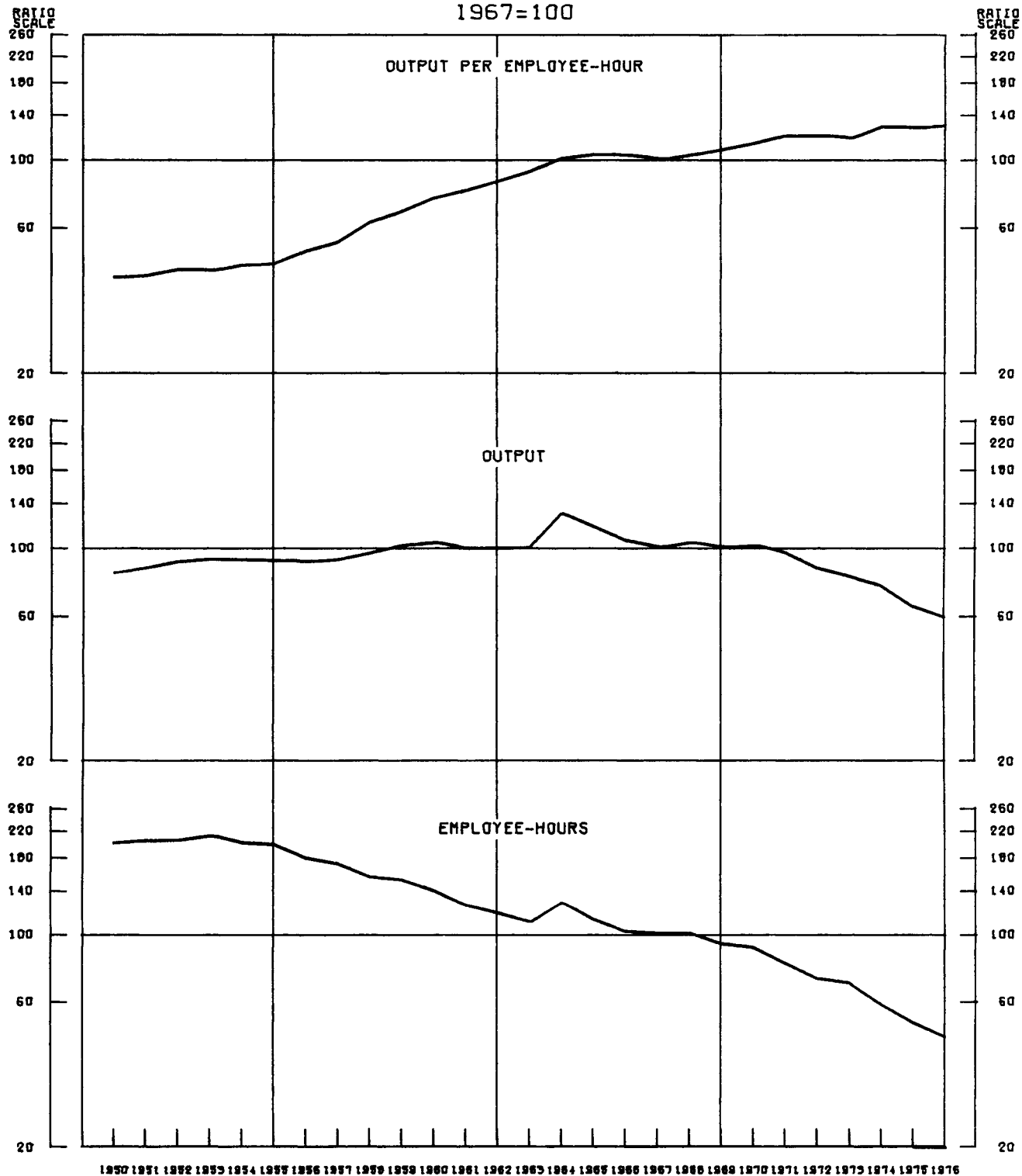
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 39
 CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 2111, 31), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



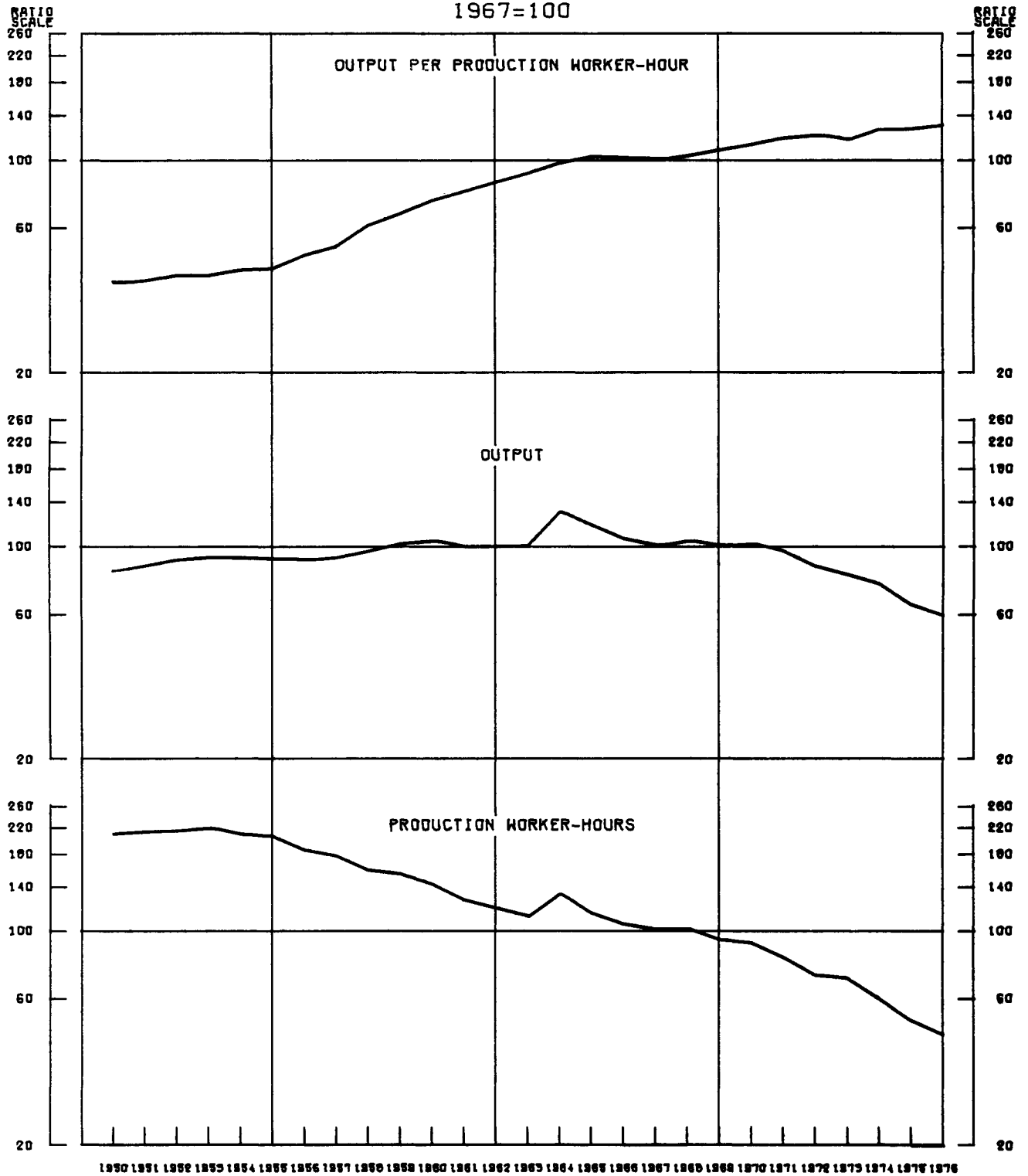
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 40
 CIGARS (SIC 2121), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



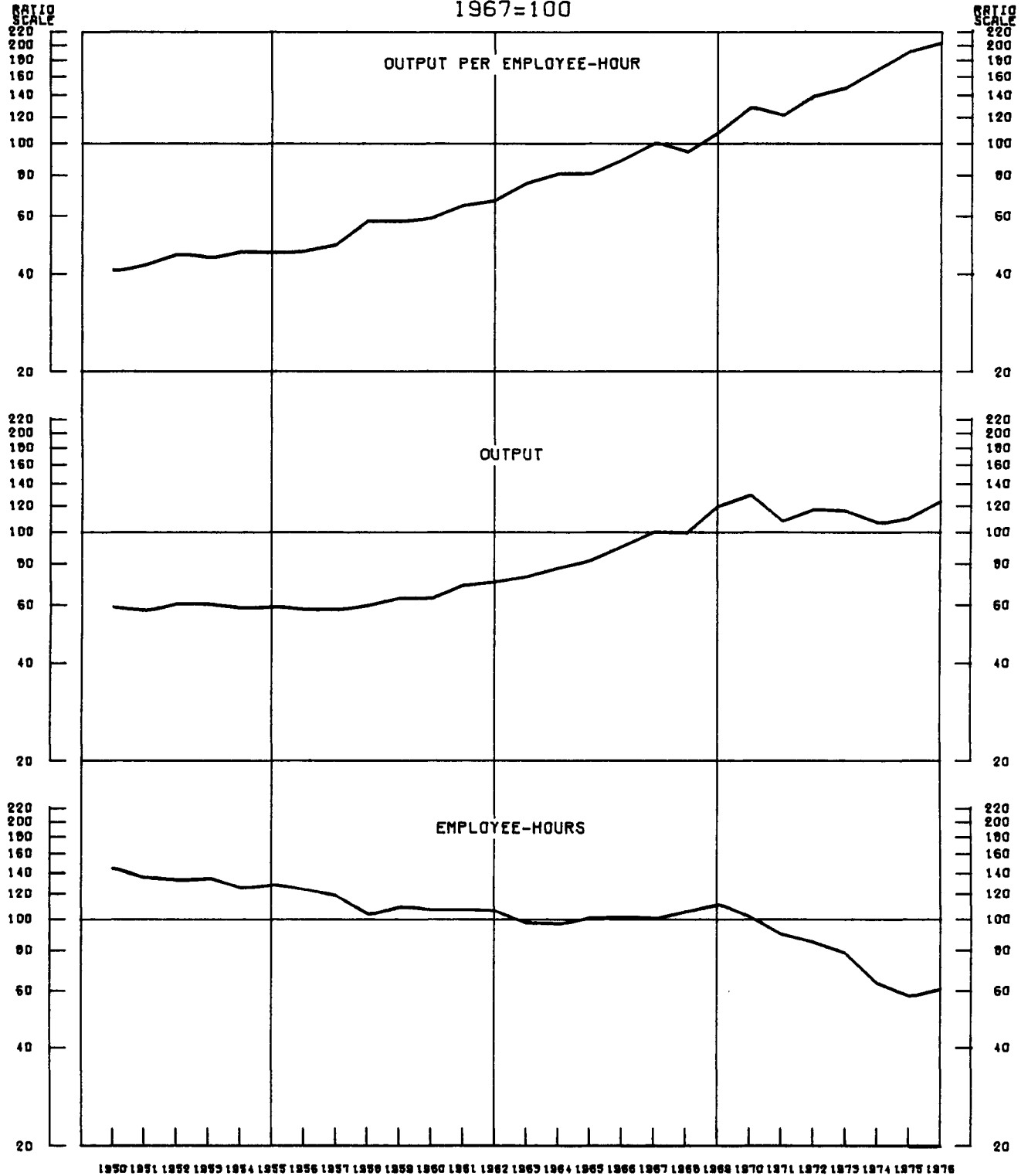
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 41
 CIGARS (SIC 2121), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



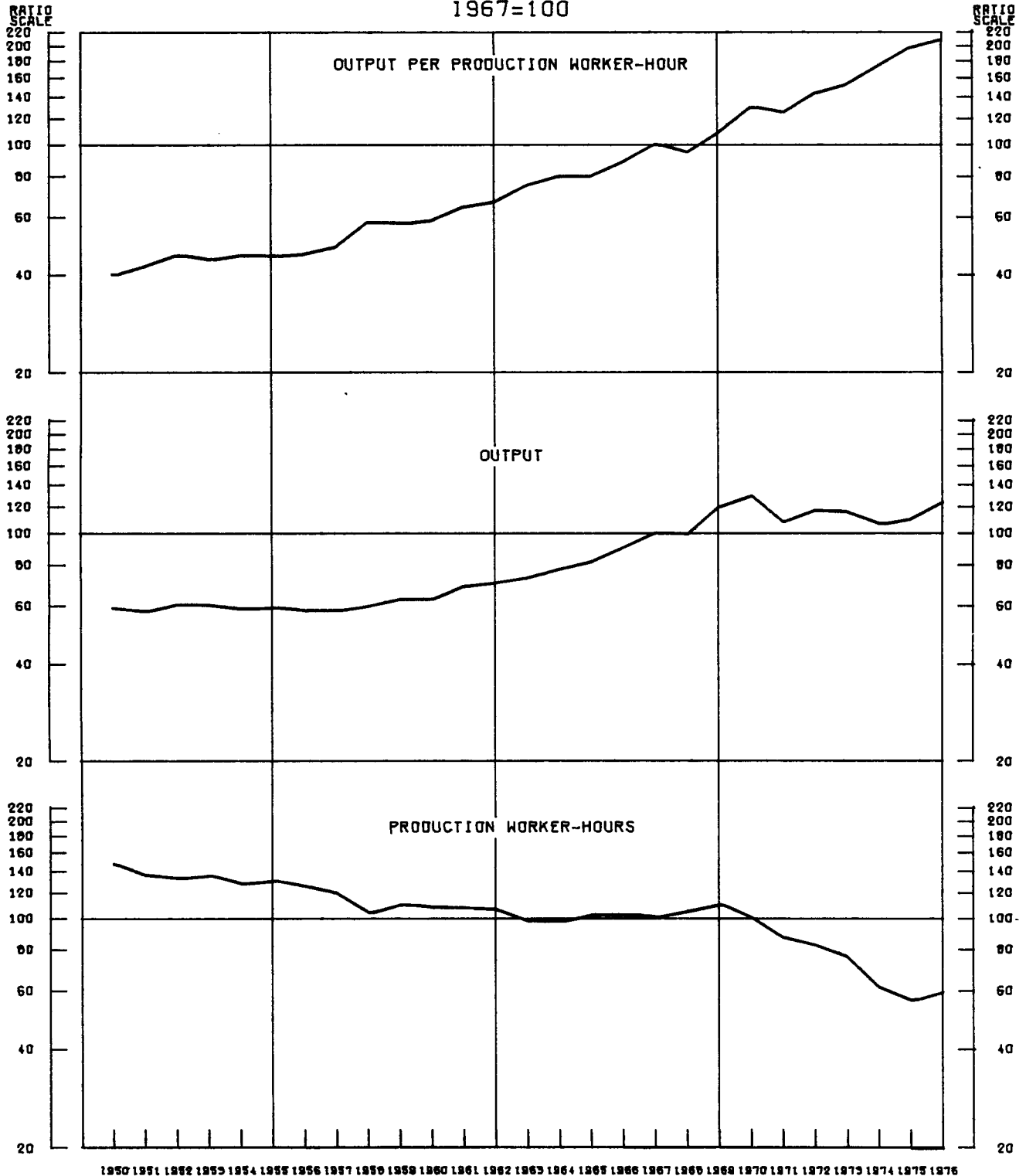
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 42
 HOSIERY (SIC 2251, 2252), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



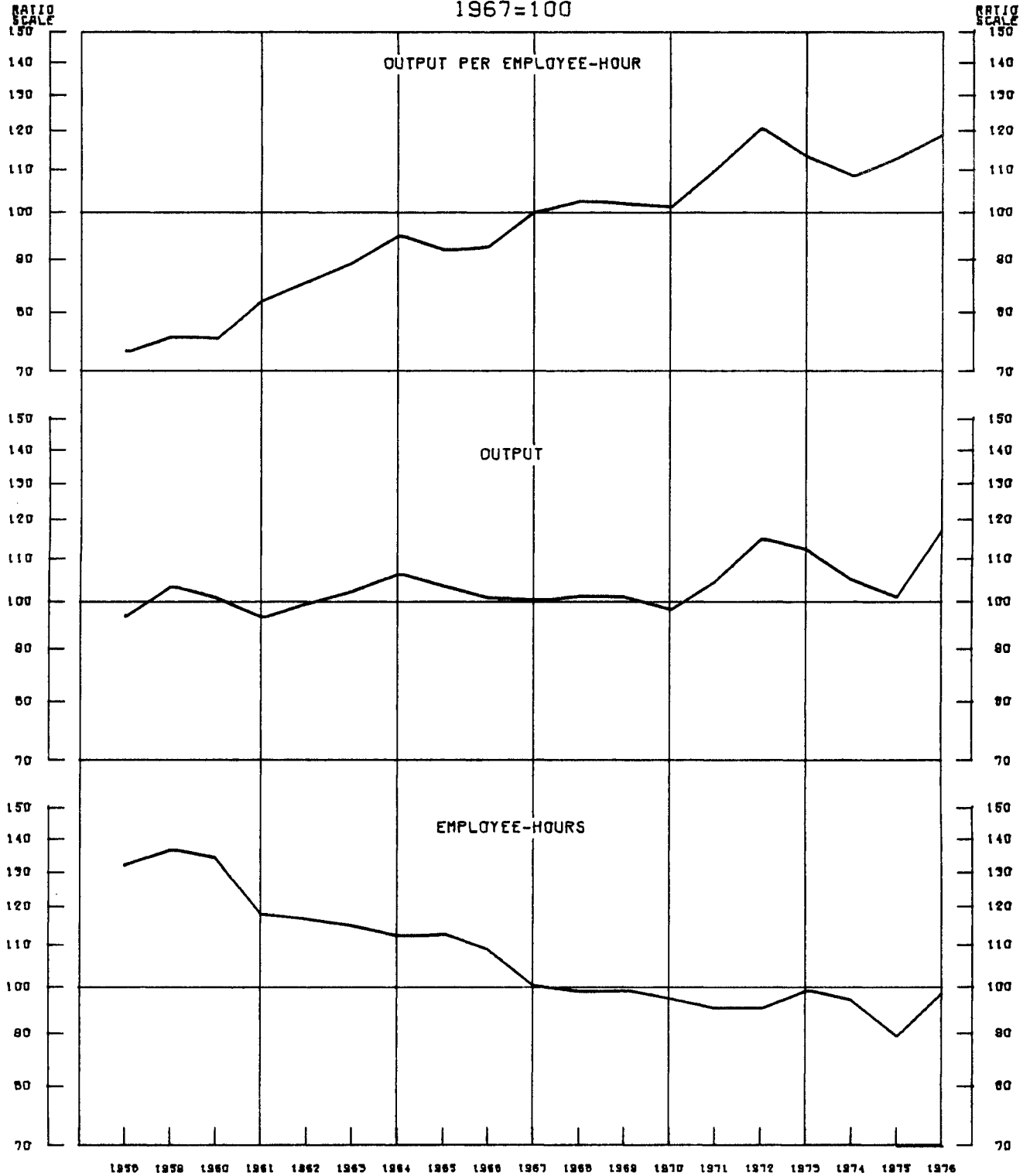
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 43
 HOSIERY (SIC 2251, 2252), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



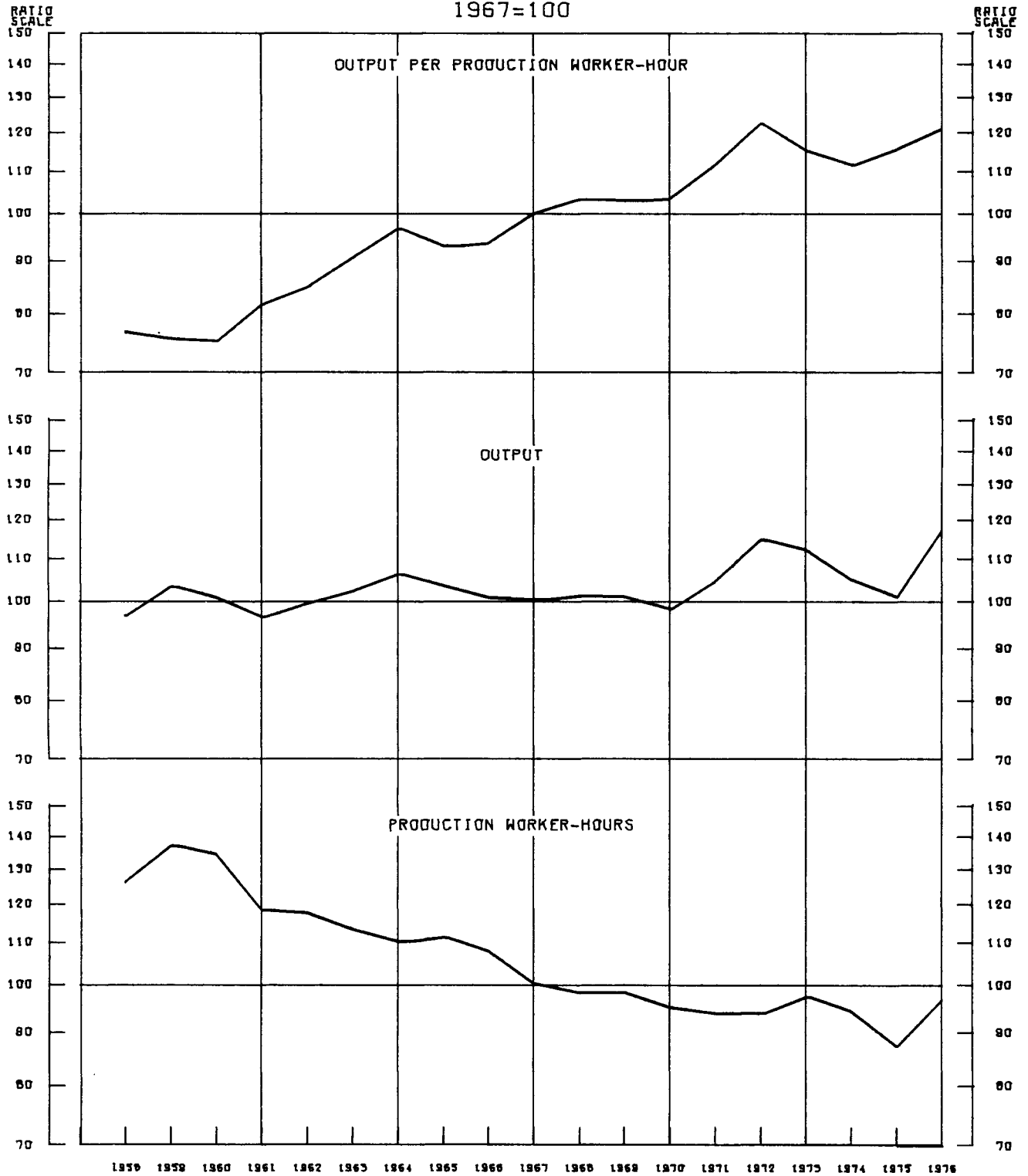
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 44
 SAWMILLS AND PLANING MILLS, GENERAL (SIC 2421), 1958-76
 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), 1958-76
 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), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



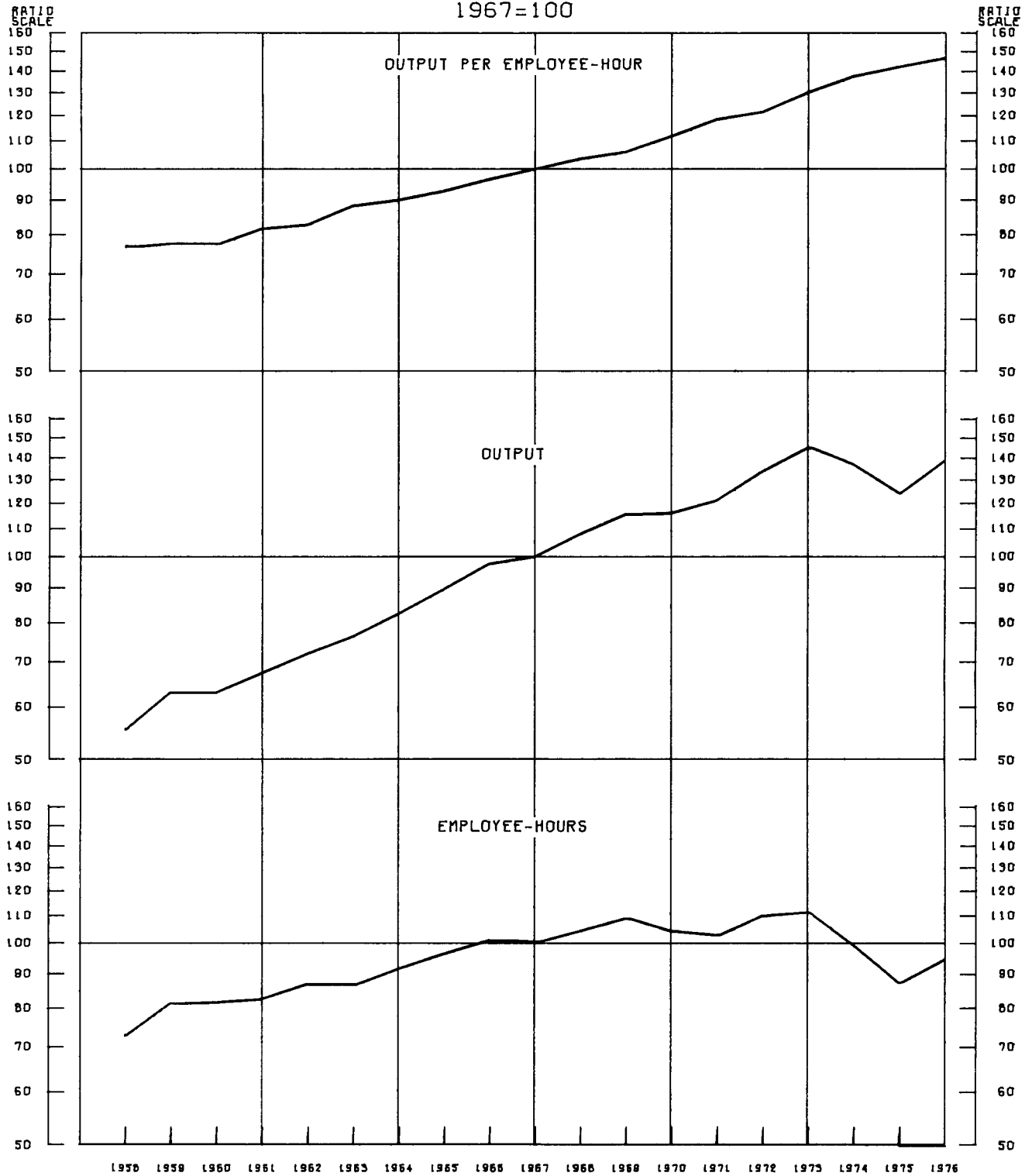
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 47
 PAPER, PAPERBOARD AND PULP MILLS (SIC 2611, 21, 31, 61), 1950-76
 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). 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



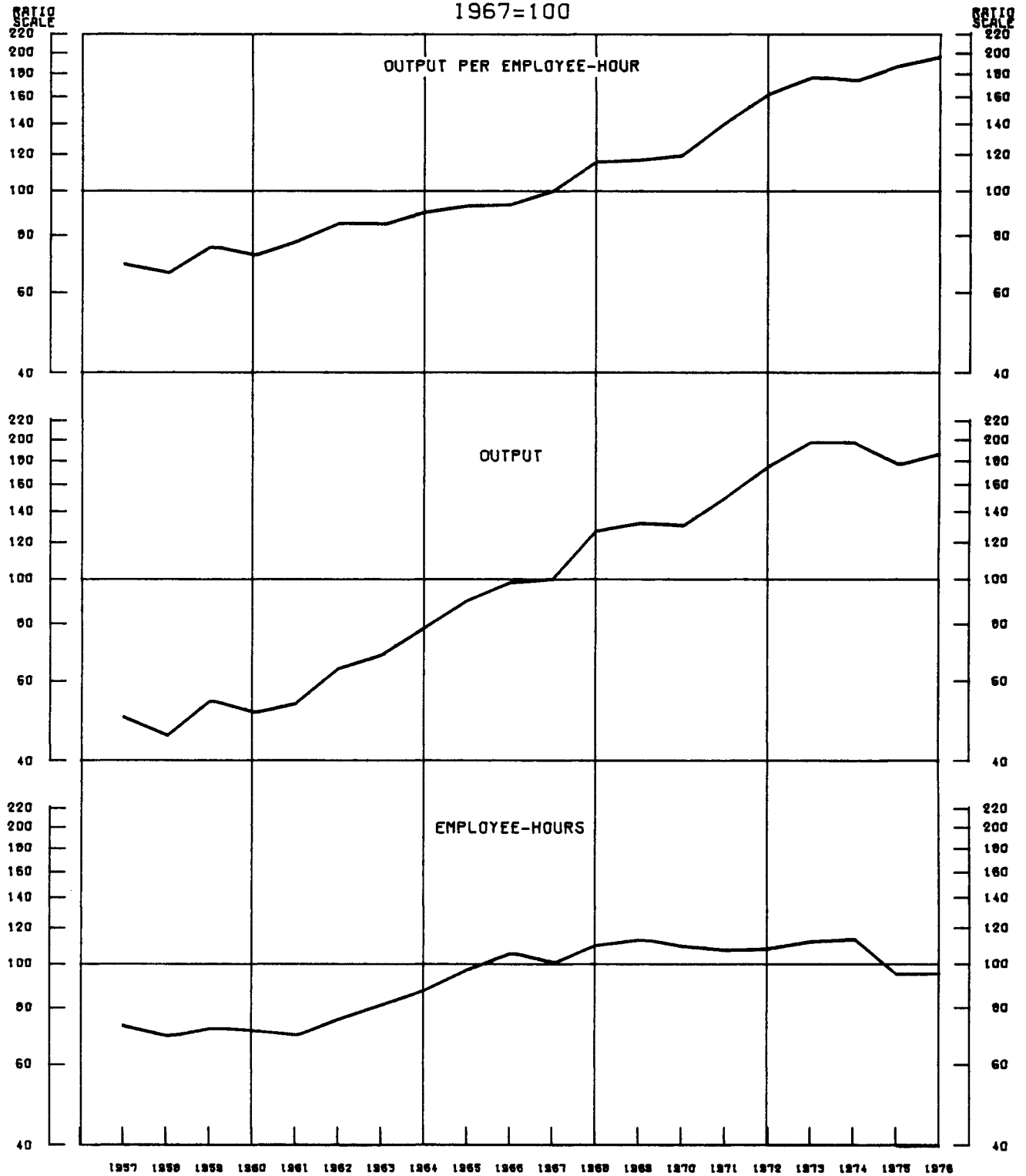
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 49
 CORRUGATED AND SOLID FIBER BOXES (SIC 2653), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



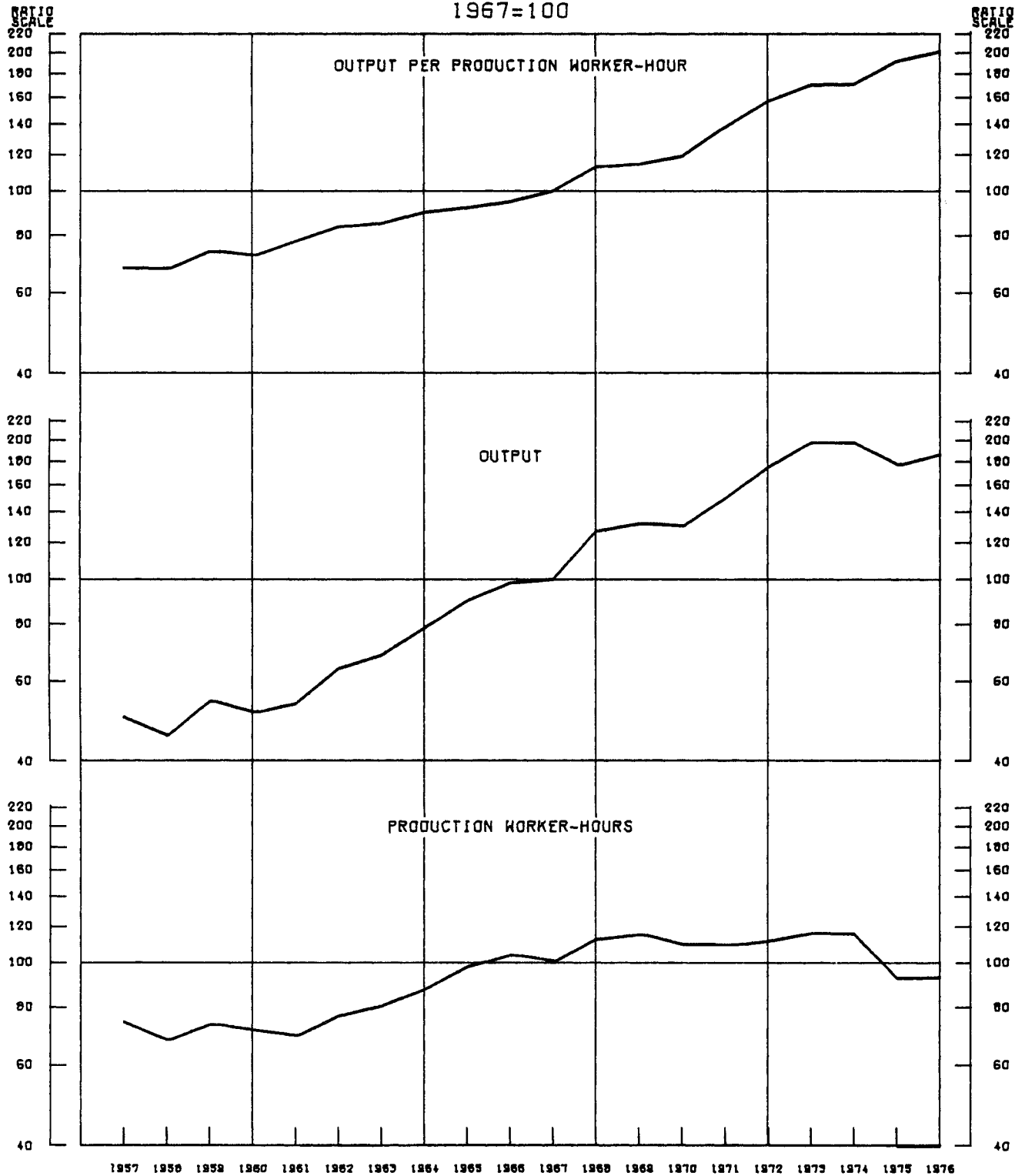
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 50
 SYNTHETIC FIBERS (SIC 2823, 2824), 1957-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



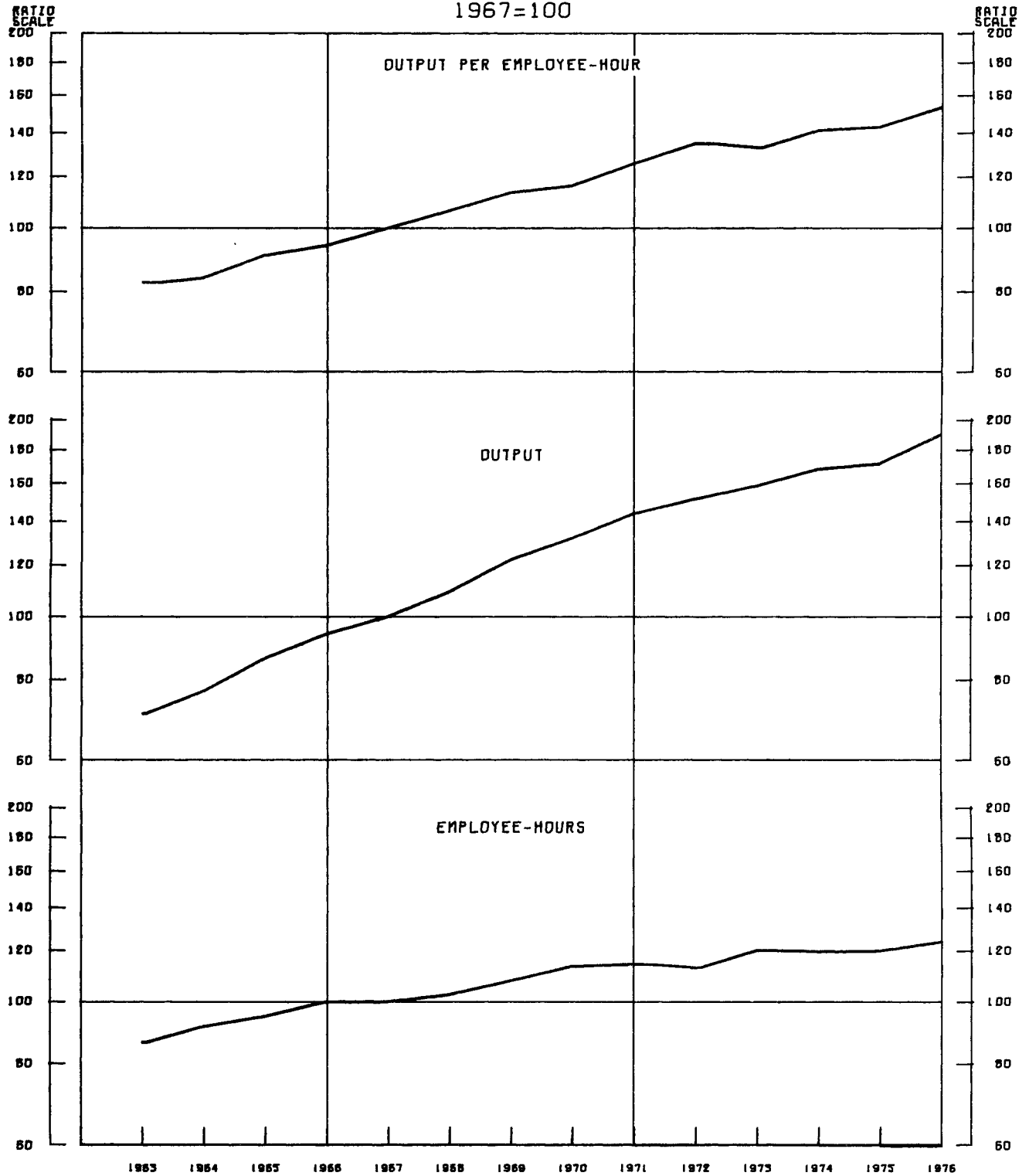
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 51
 SYNTHETIC FIBERS (SIC 2823, 2824), 1957-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



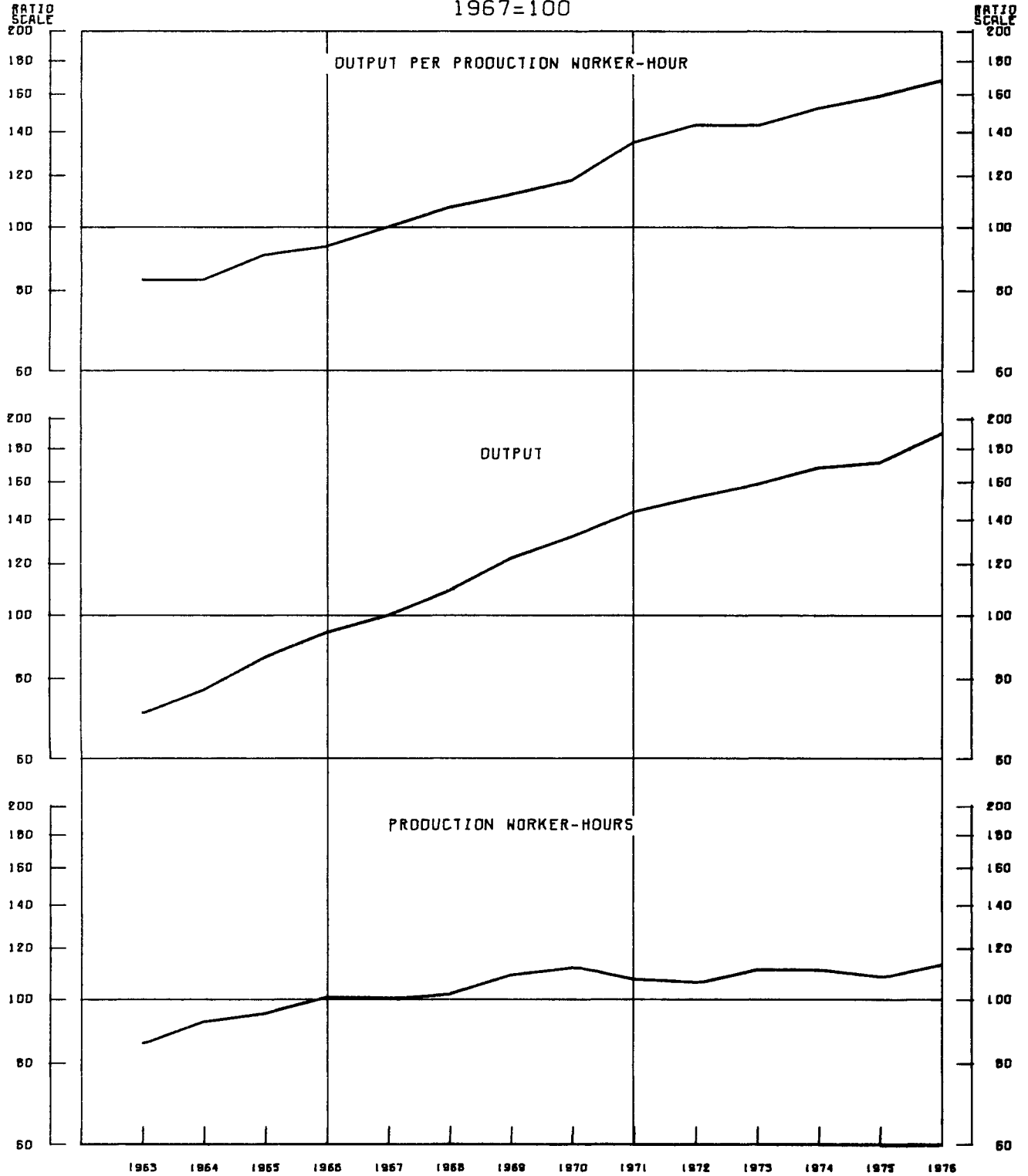
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 52
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



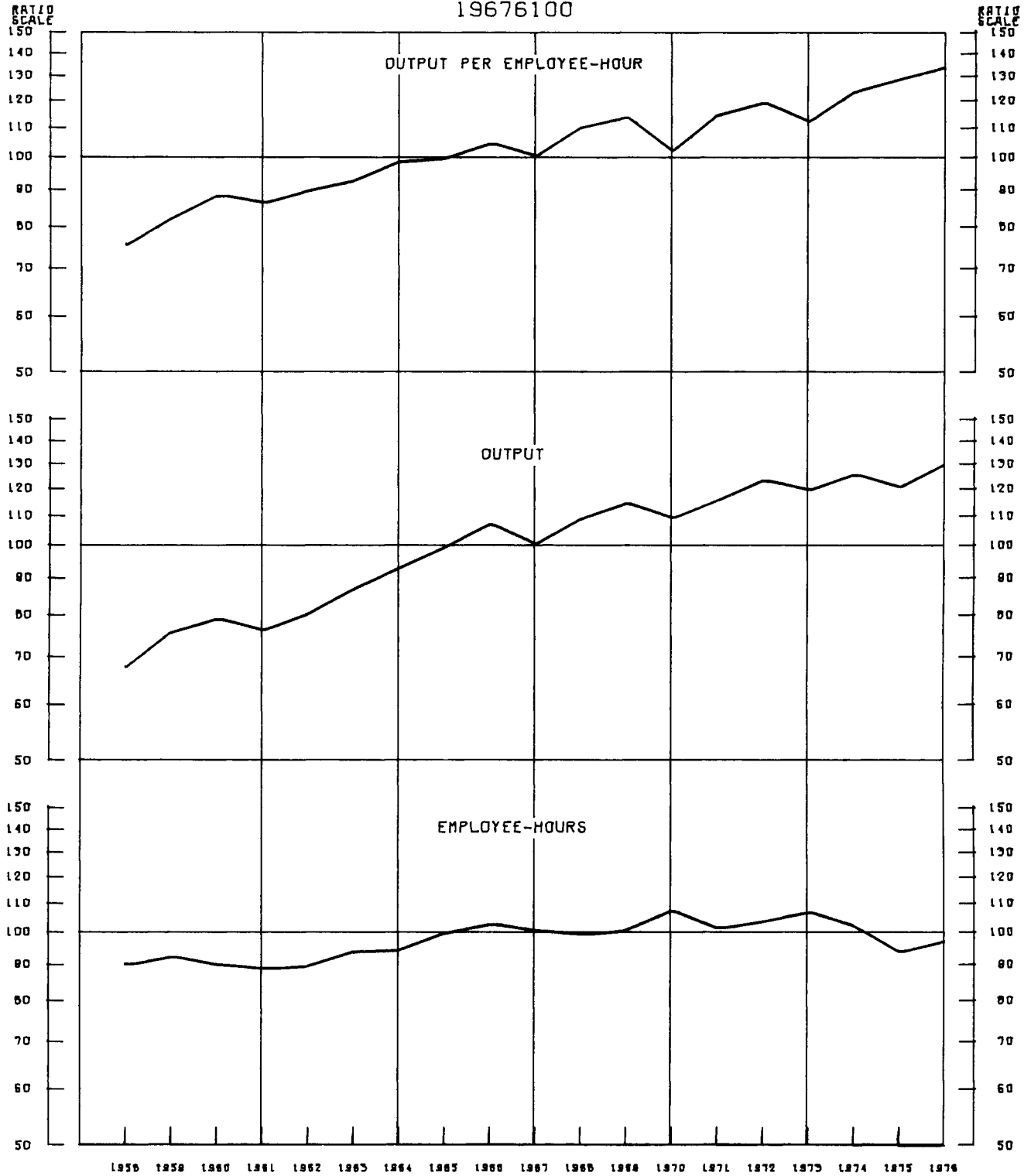
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 53
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



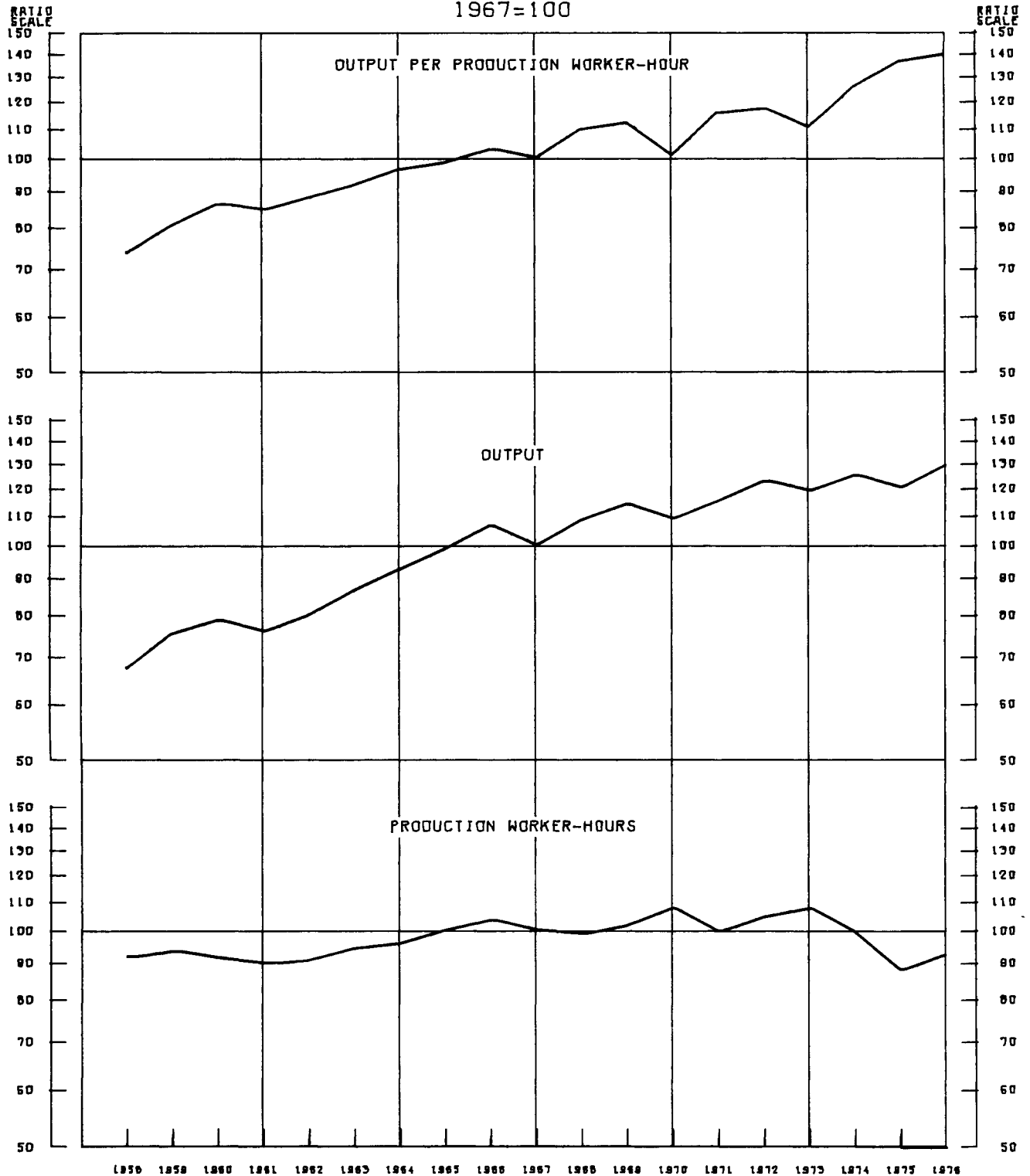
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 54
 PAINTS AND ALLIED PRODUCTS (SIC 2851), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 19676100



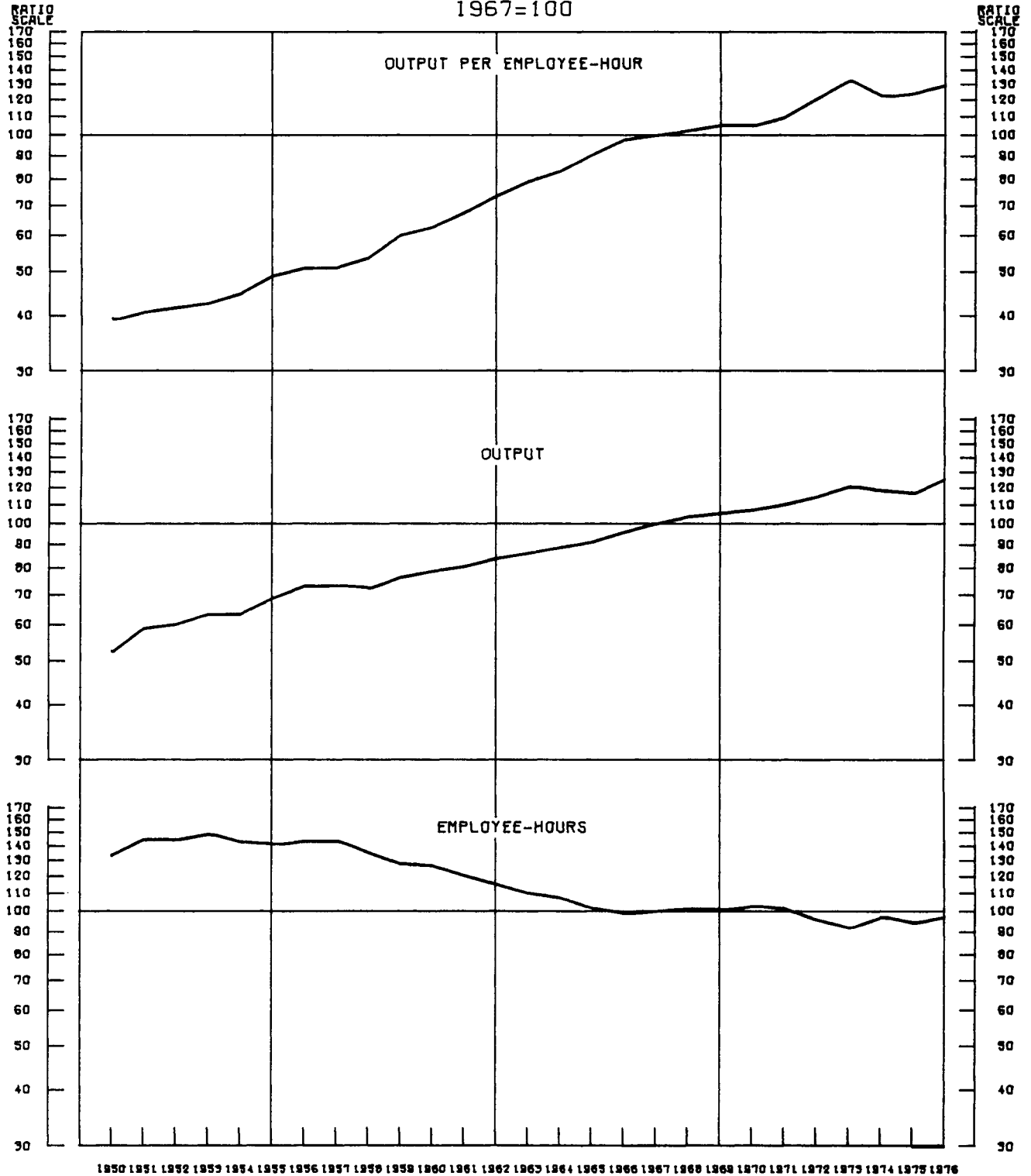
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 55
 PAINTS AND ALLIED PRODUCTS (SIC 2851), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



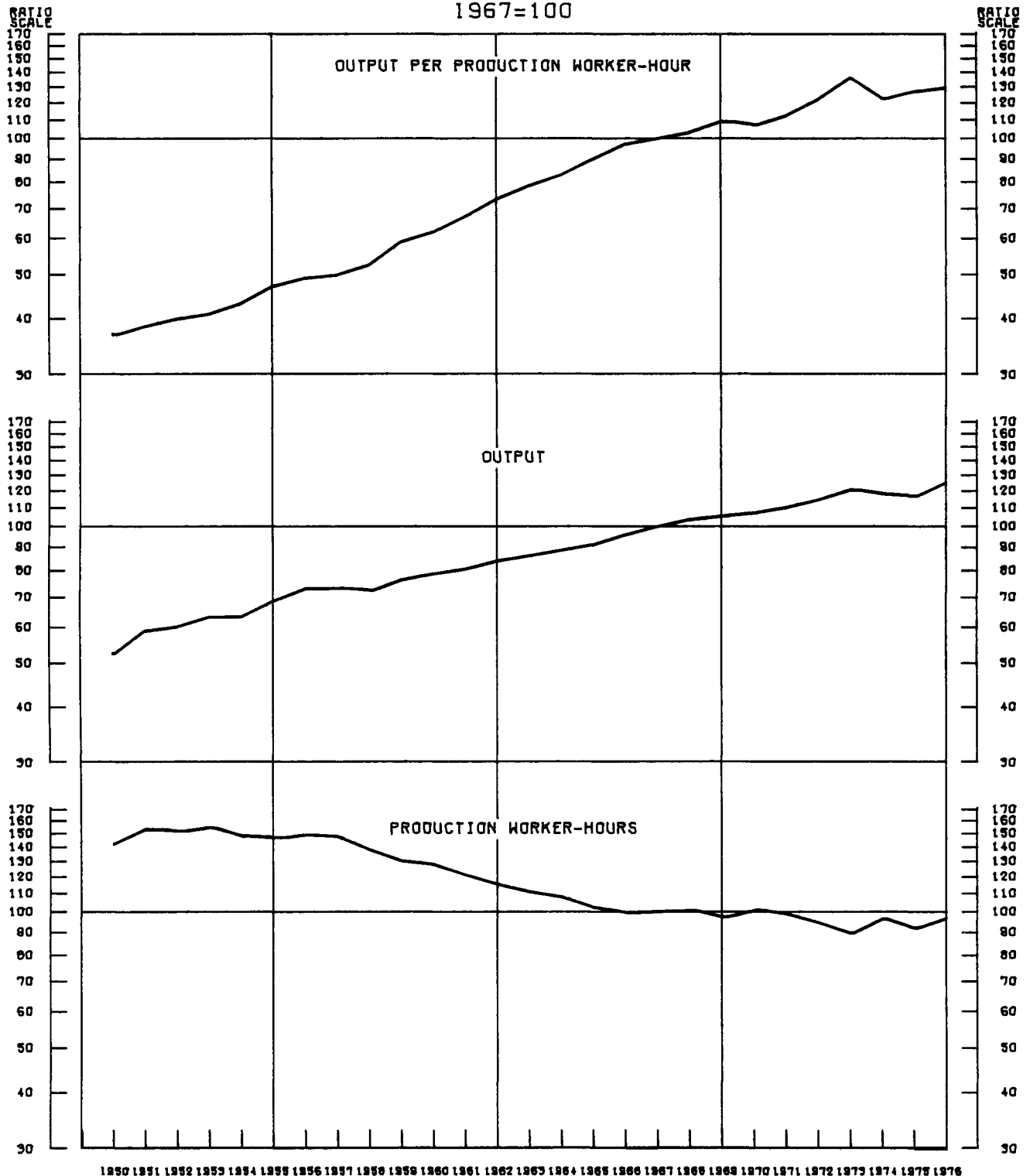
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 56
 PETROLEUM REFINING (SIC 2911), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



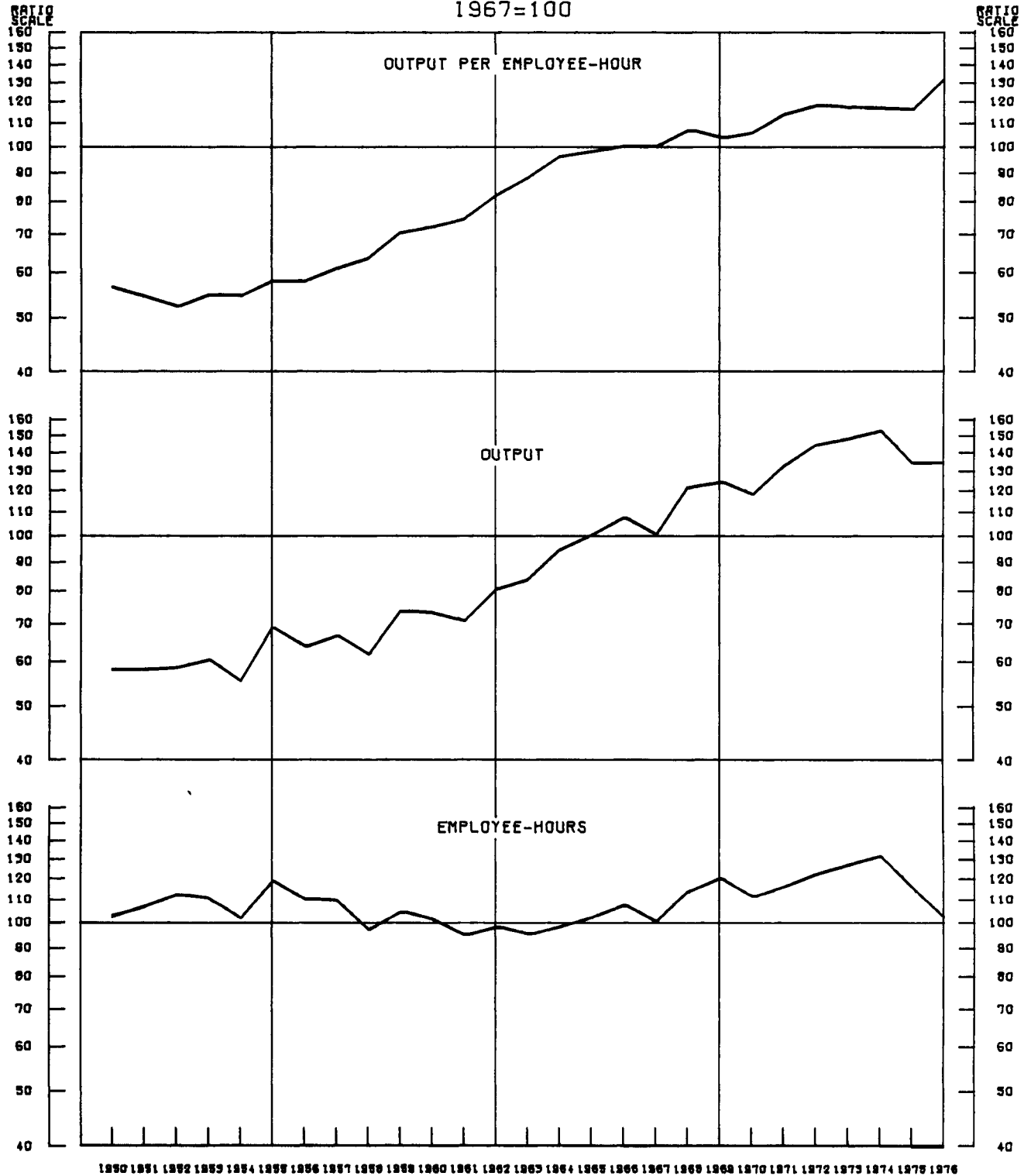
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 57
 PETROLEUM REFINING (SIC 2911), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



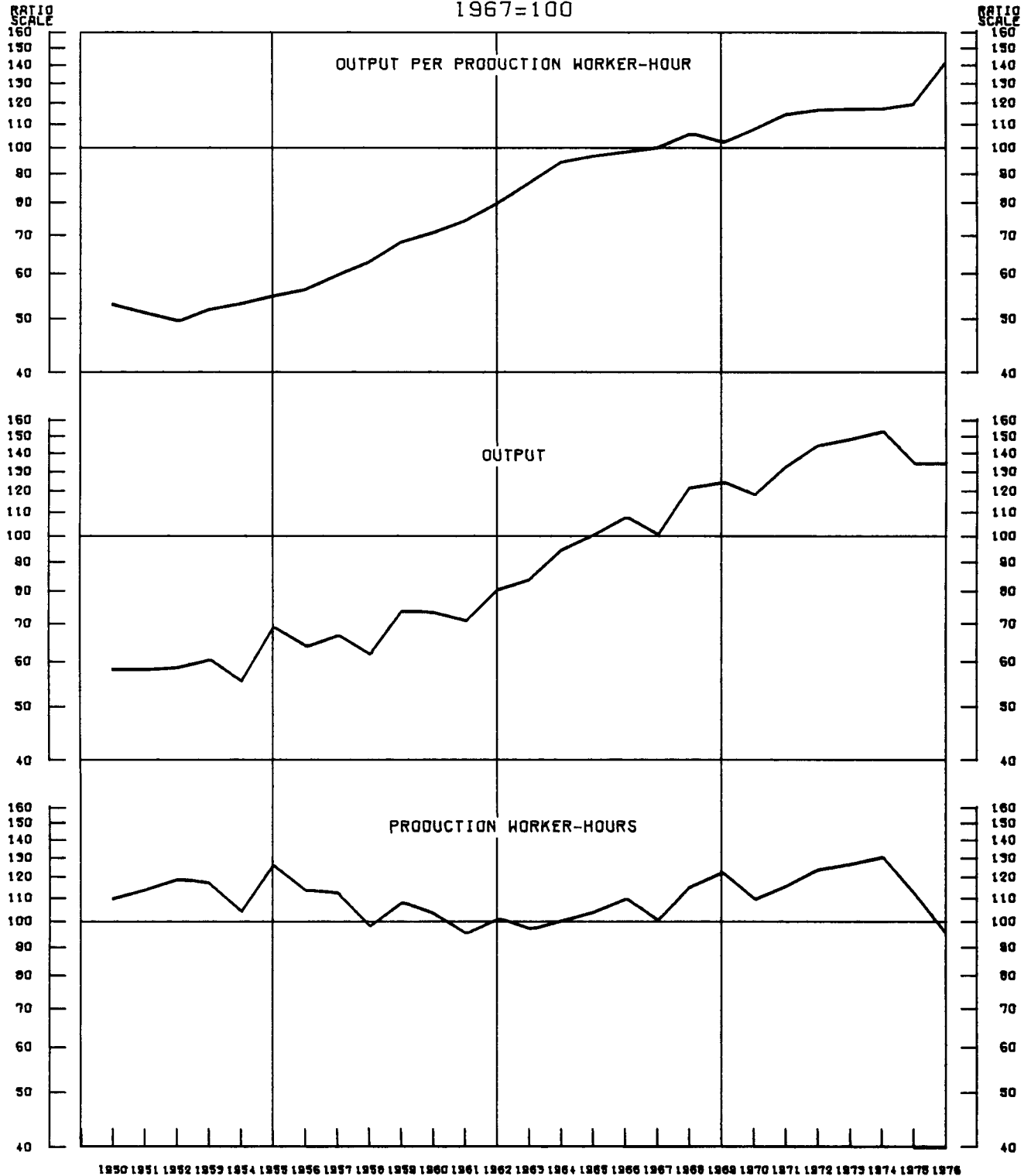
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 58
 TIRES AND INNER TUBES (SIC 3011), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



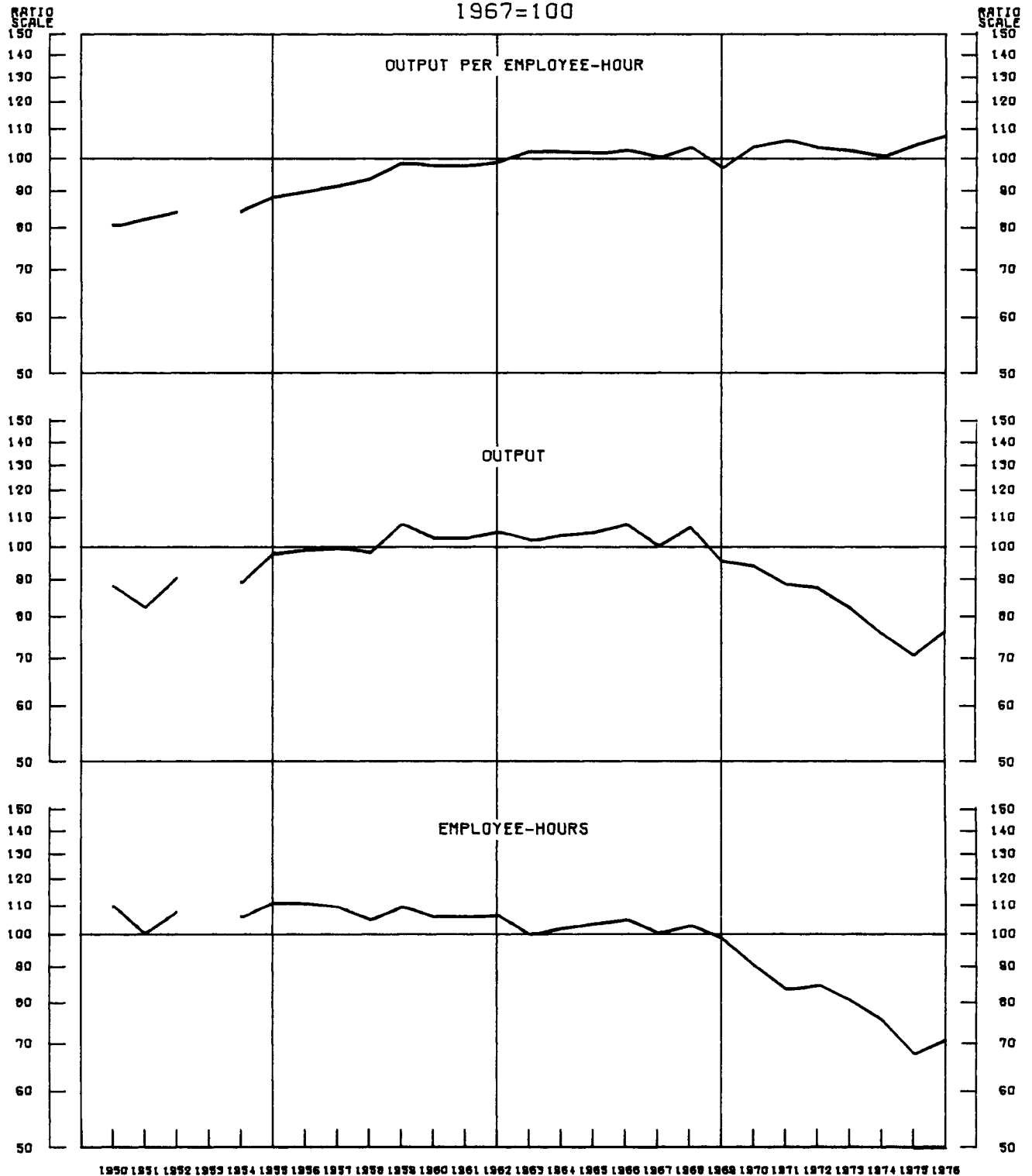
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 59
 TIRES AND INNER TUBES (SIC 3011), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



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

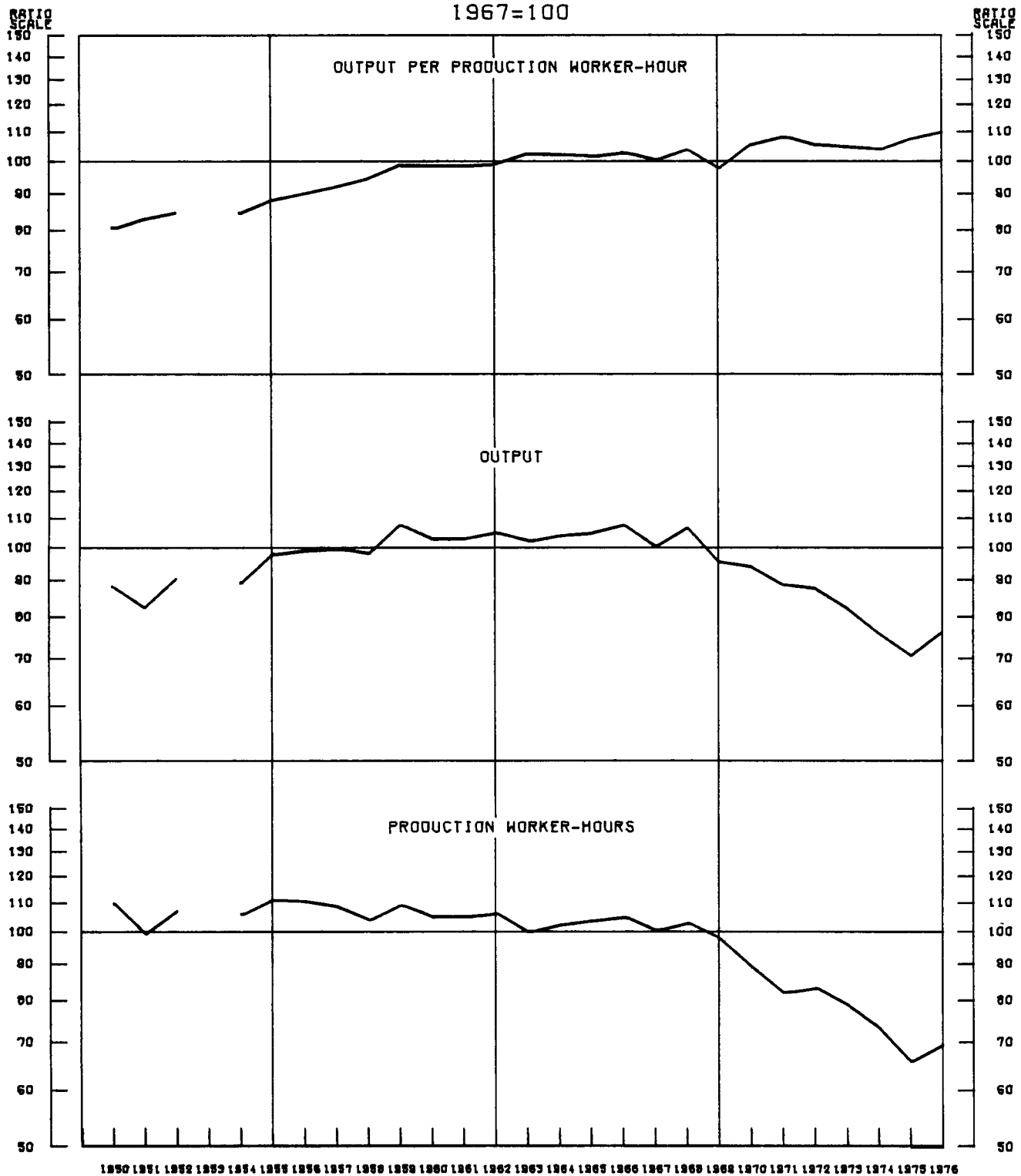
CHART 60
 FOOTWEAR (SIC 314), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



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), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



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

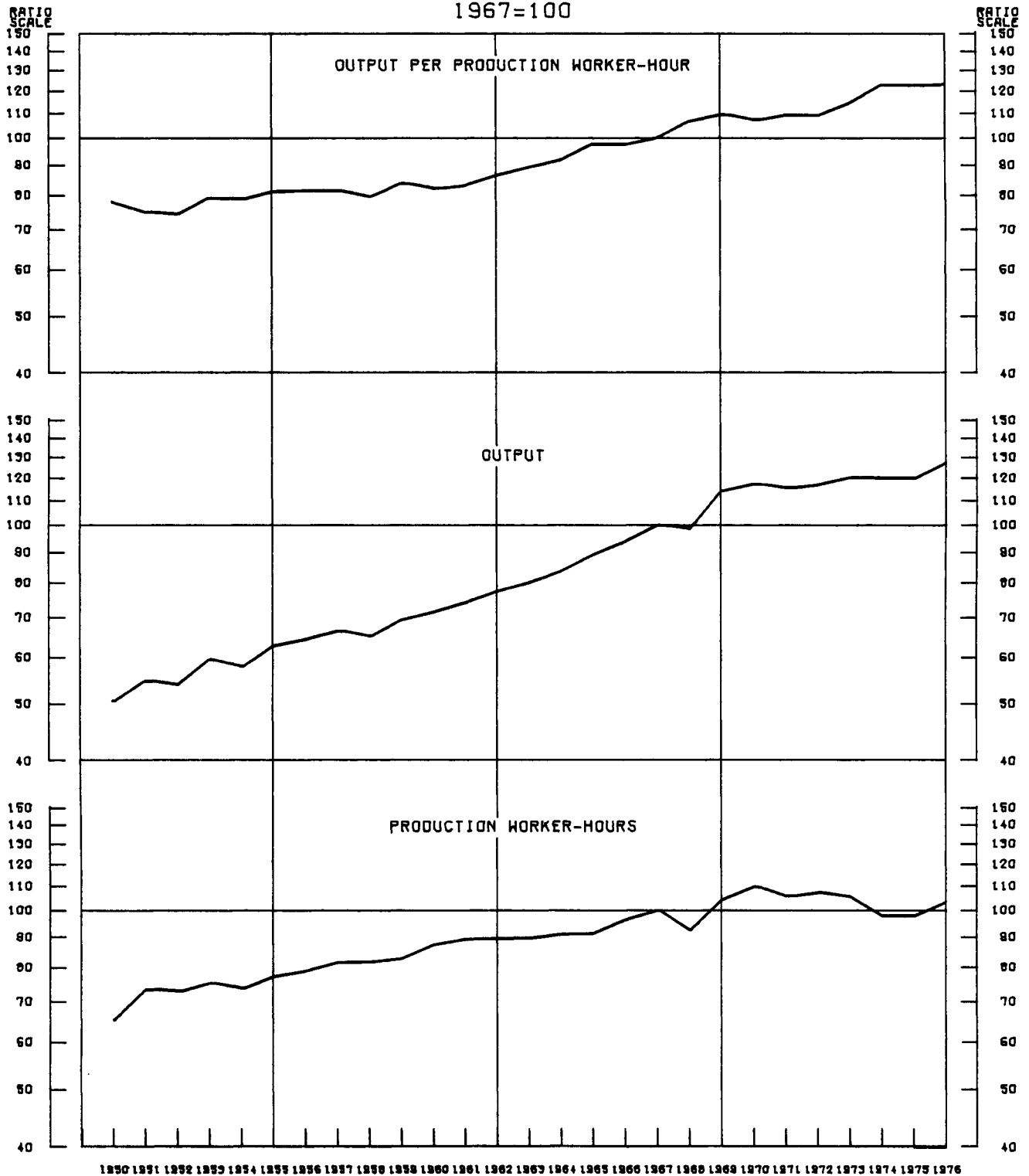
SOURCE: U.S. Department of Labor, Bureau of Labor Statistics.

CHART 62
 GLASS CONTAINERS (SIC 3221), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



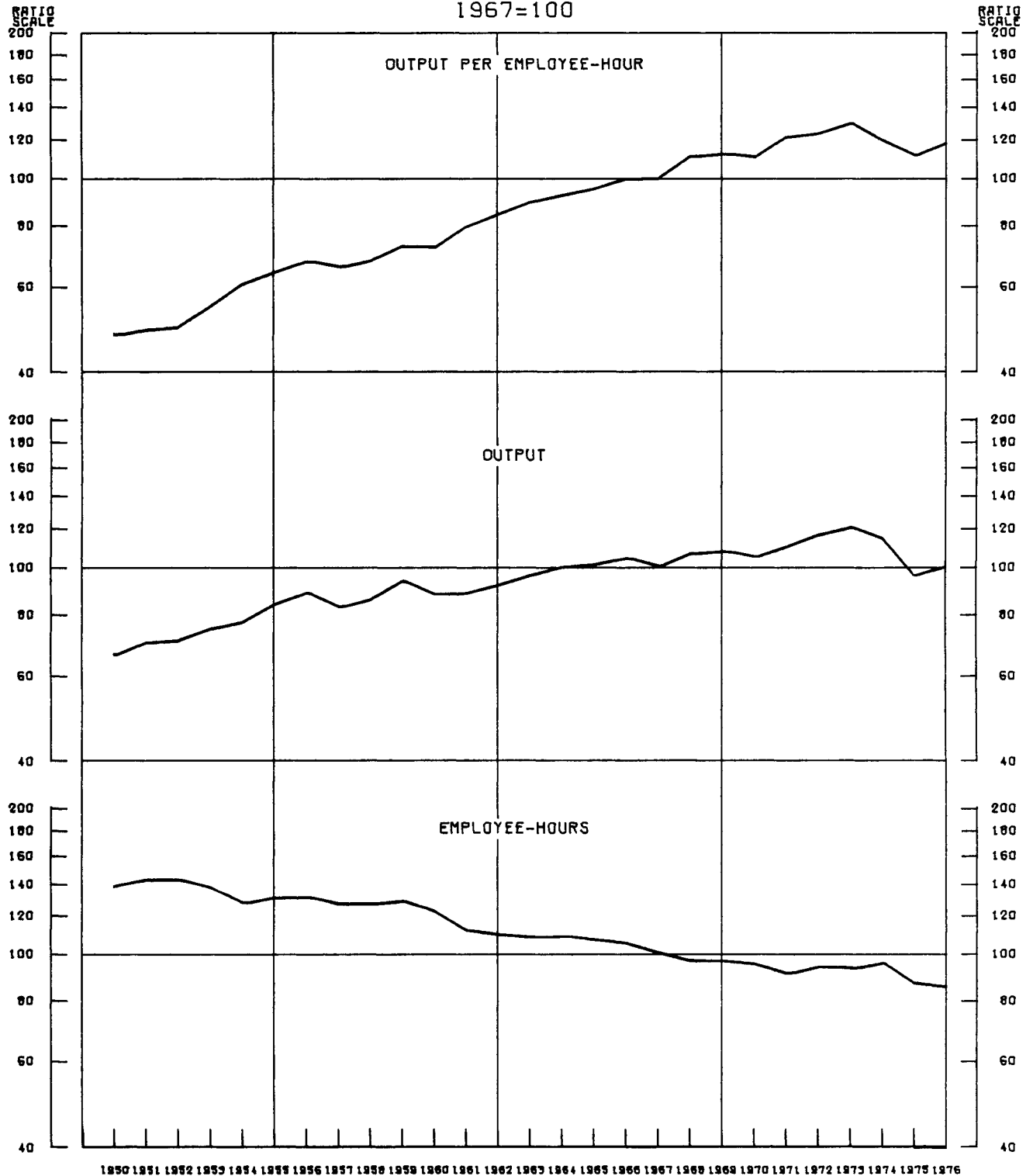
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 63
 GLASS CONTAINERS (SIC 3221), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



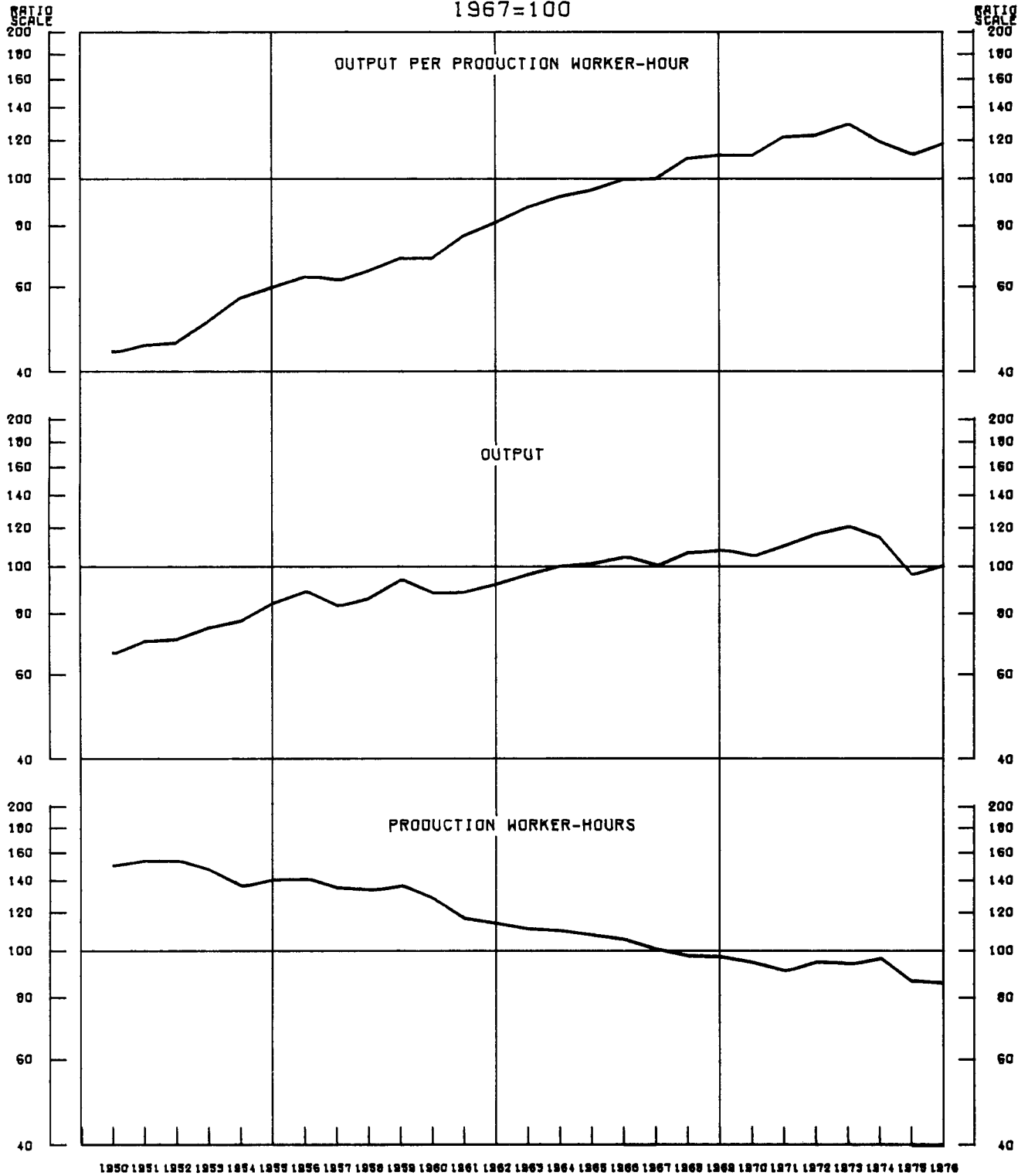
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 64
 HYDRAULIC CEMENT (SIC 3241), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



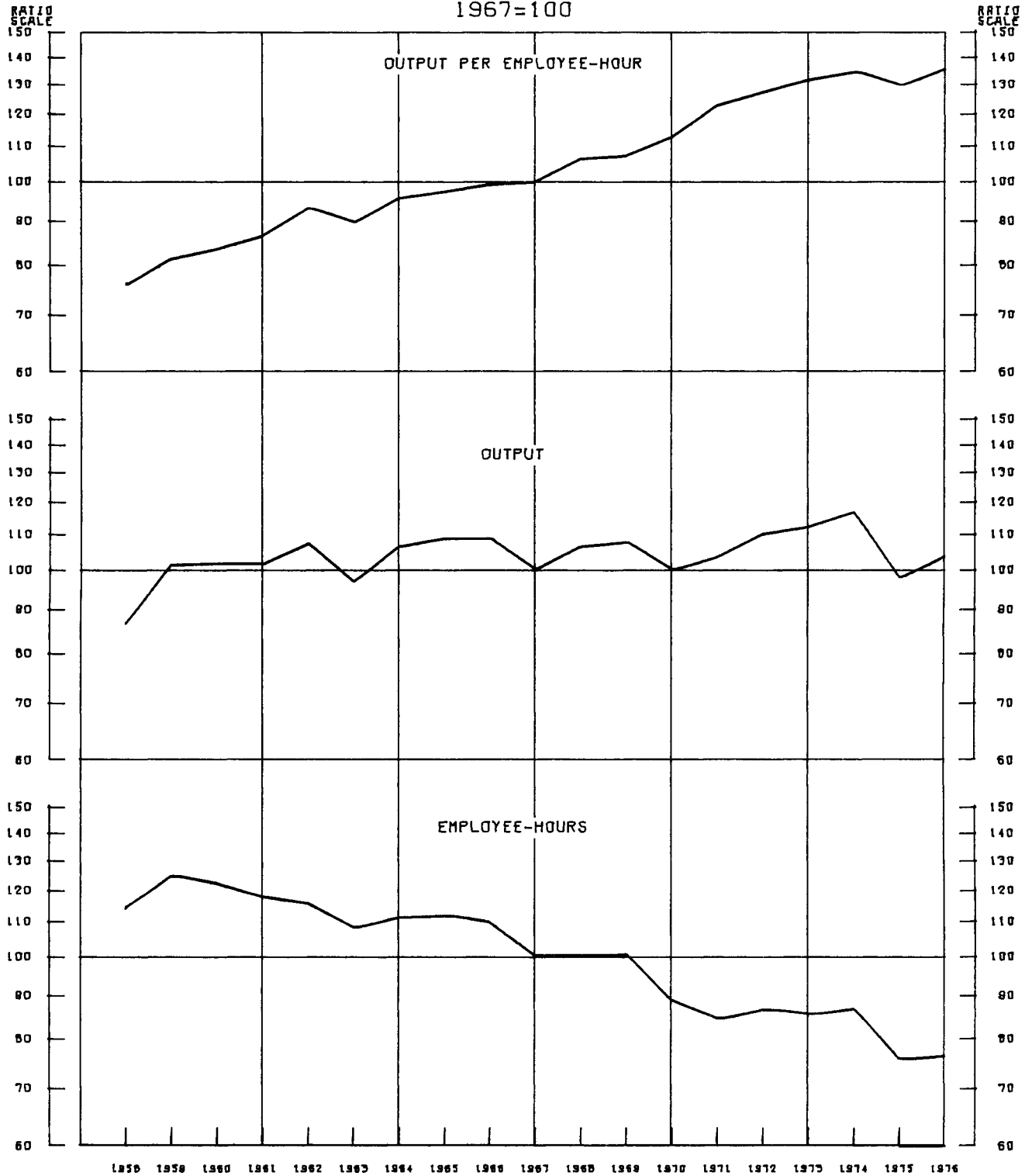
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 65
 HYDRAULIC CEMENT (SIC 3241), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



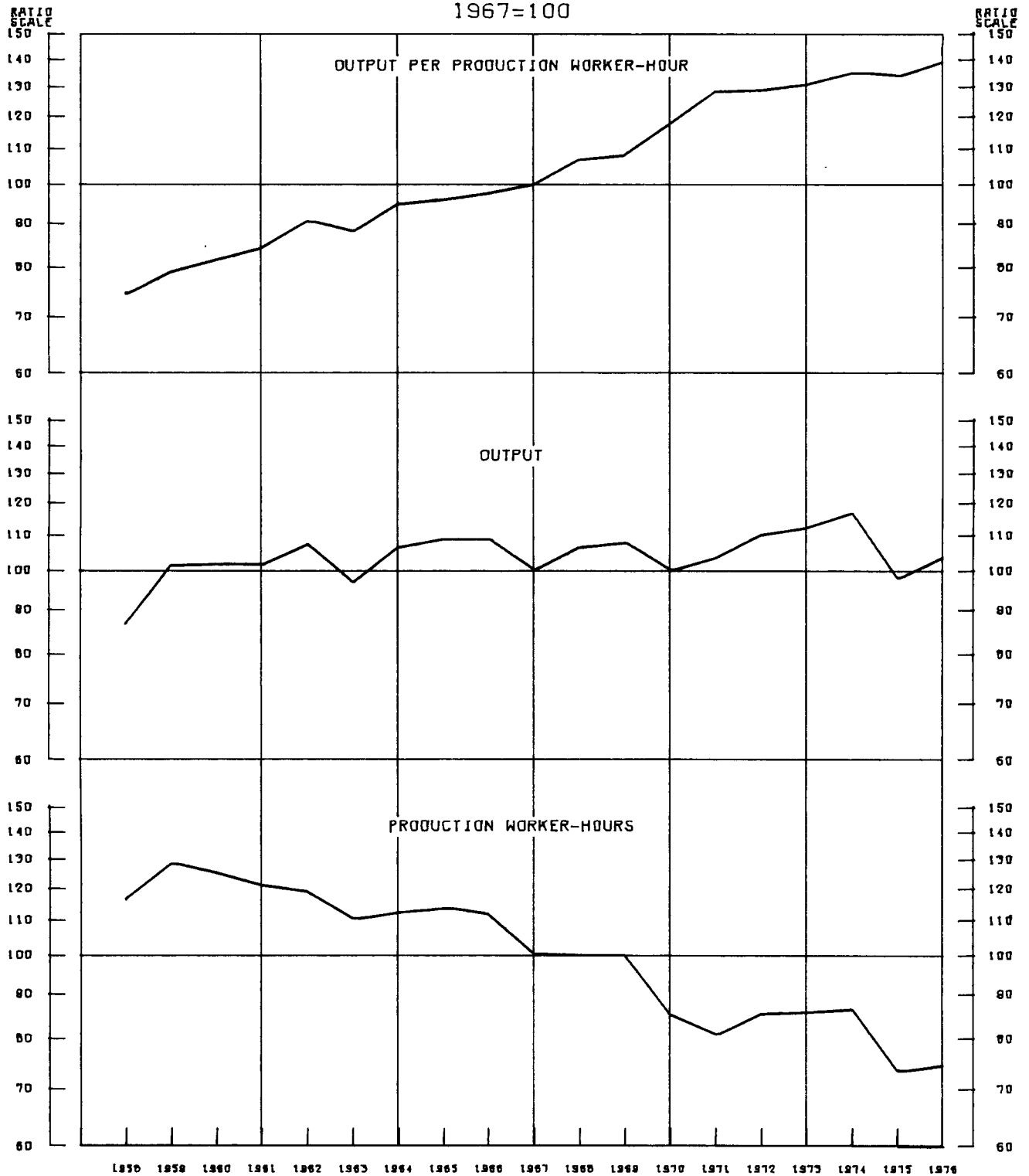
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 66
 STRUCTURAL CLAY PRODUCTS (SIC 325), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



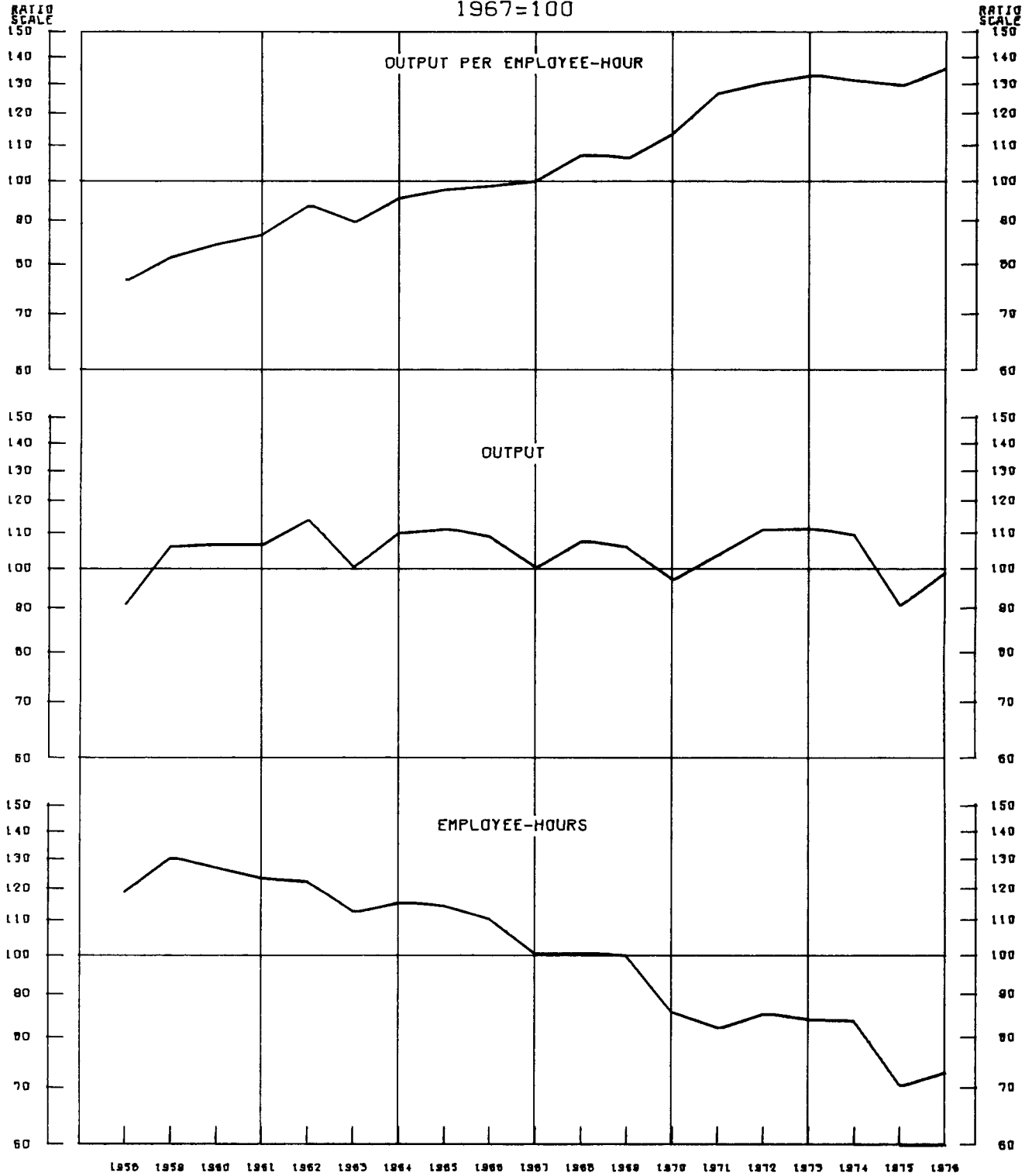
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 67
 STRUCTURAL CLAY PRODUCTS (SIC 325), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



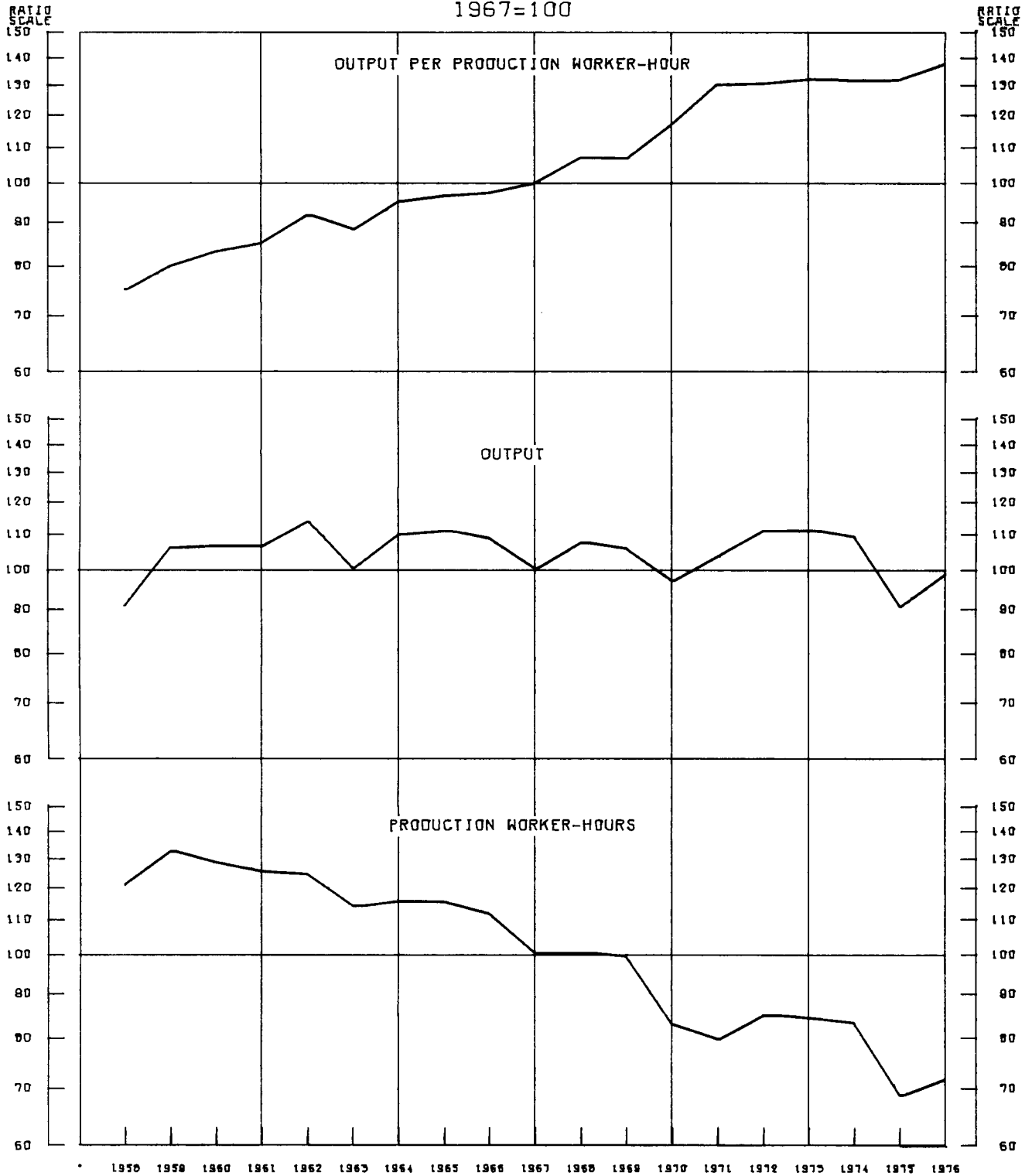
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 68
 CLAY CONSTRUCTION PRODUCTS (SIC 3251, 3253, 3259), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



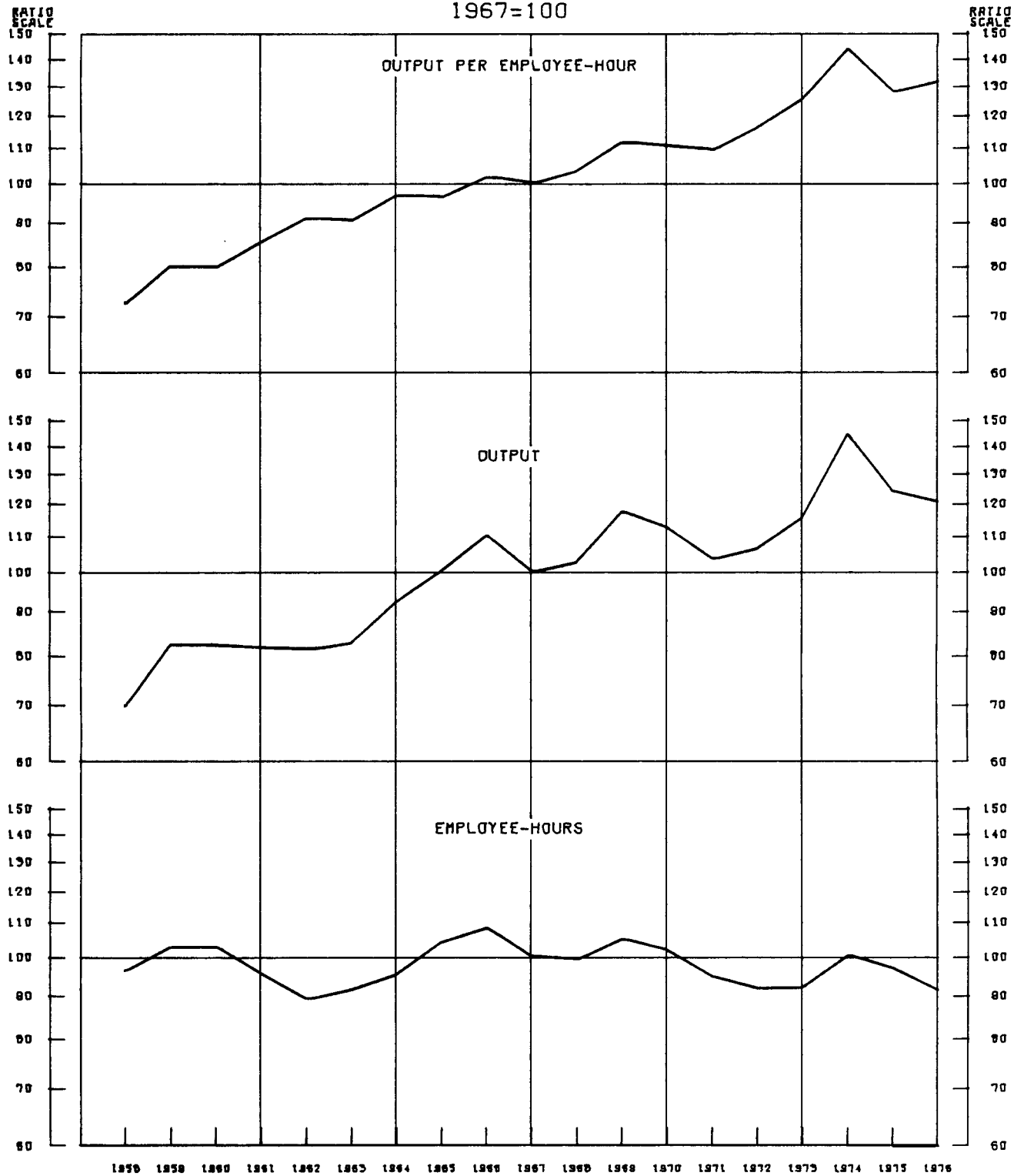
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 69
 CLAY CONSTRUCTION PRODUCTS (SIC 3251, 3253, 3259), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



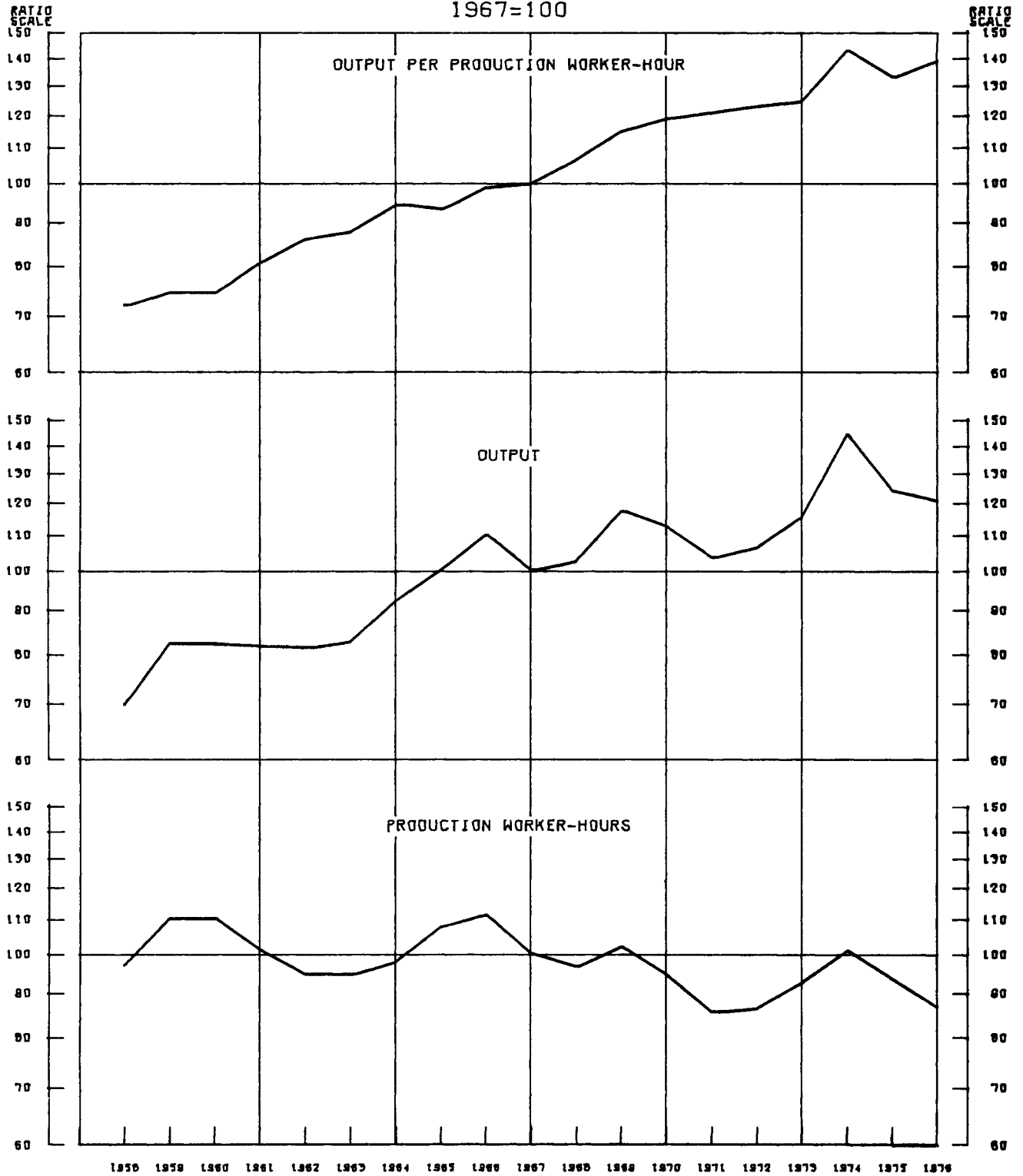
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 70
 CLAY REFRACTORIES (SIC 3255), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



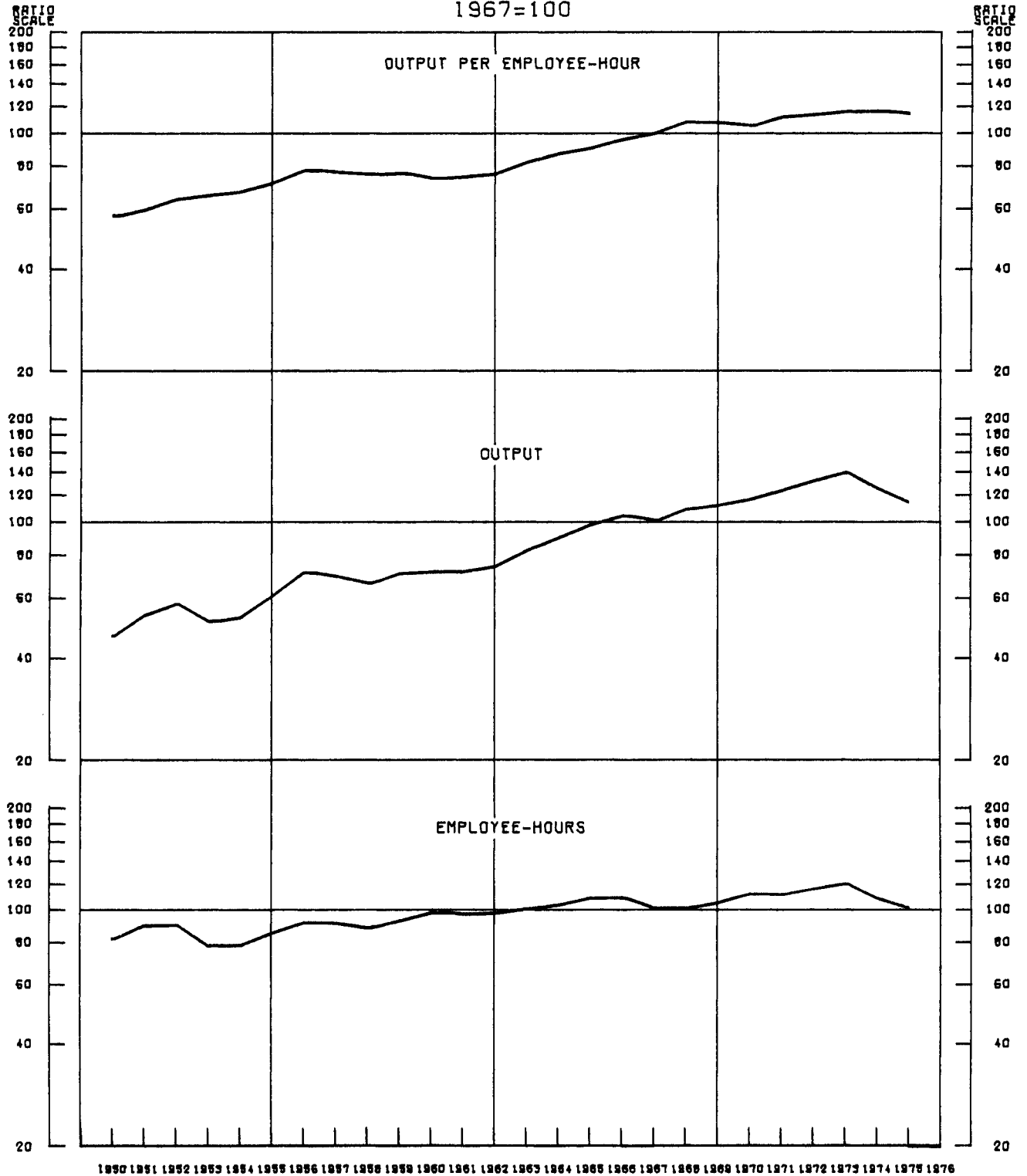
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 71
 CLAY REFRACTORIES (SIC 3255), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



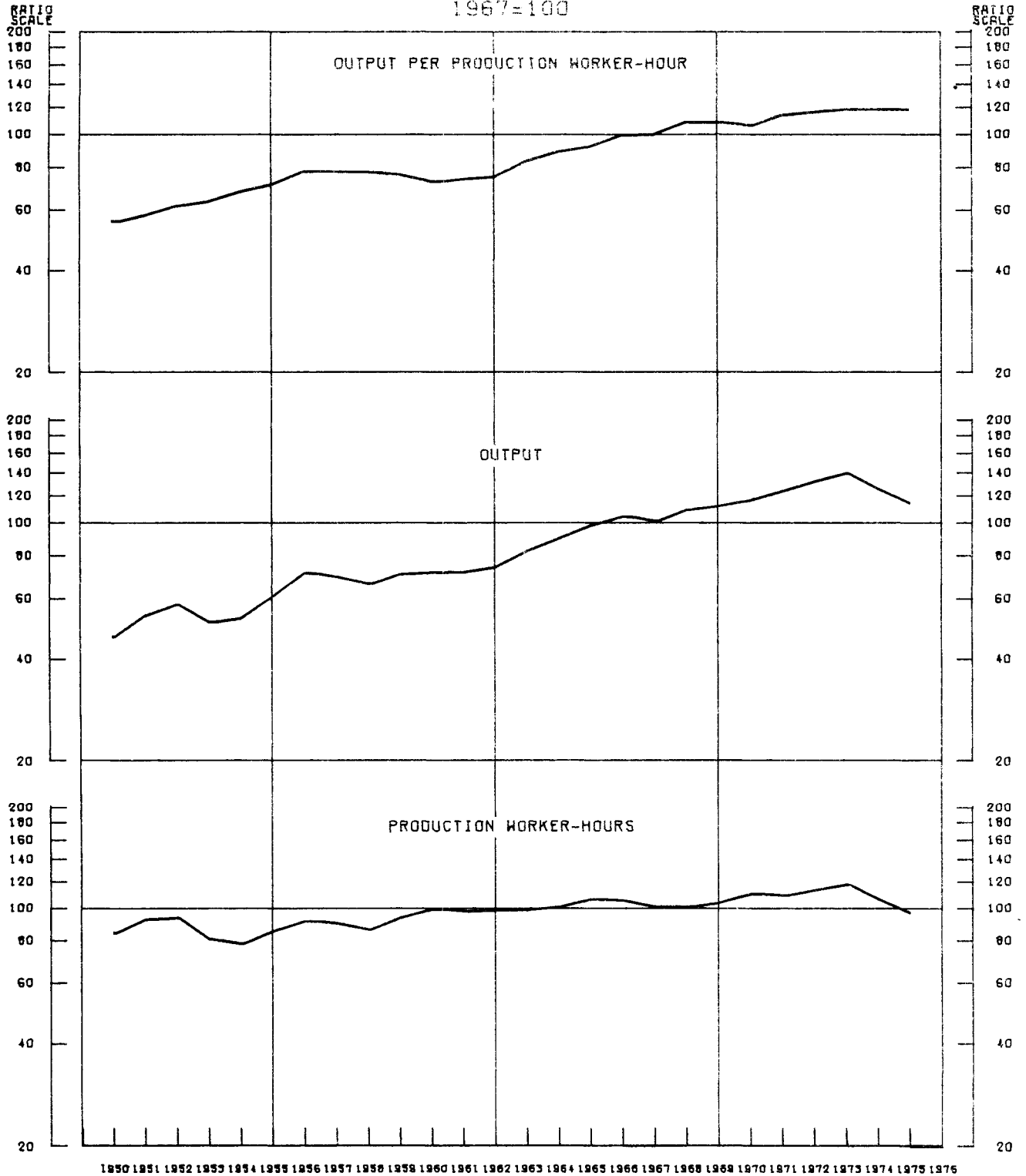
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 72
 CONCRETE PRODUCTS (SIC 3271, 3272), 1950-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



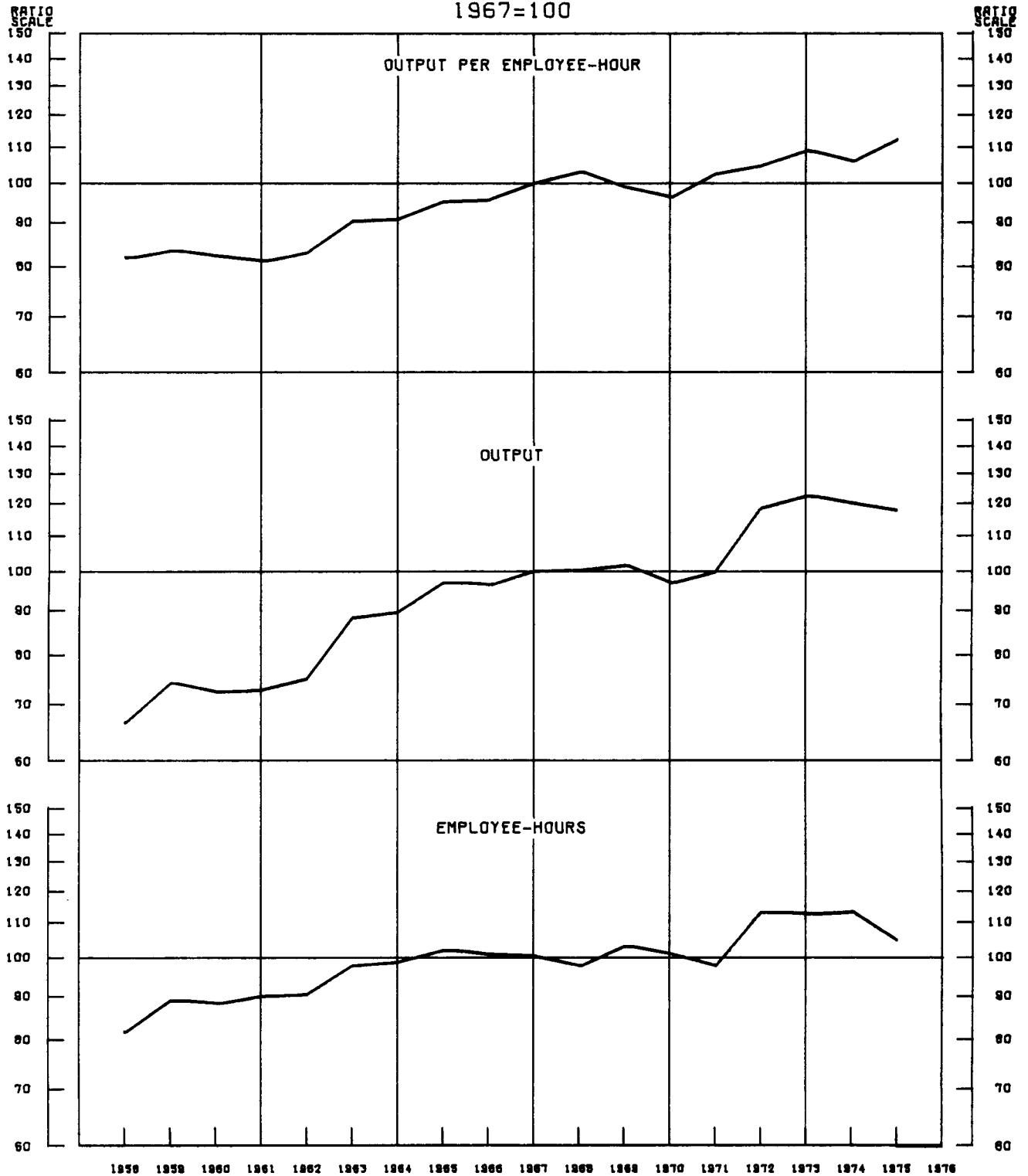
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 73
 CONCRETE PRODUCTS (SIC 3271, 3272), 1950-75
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



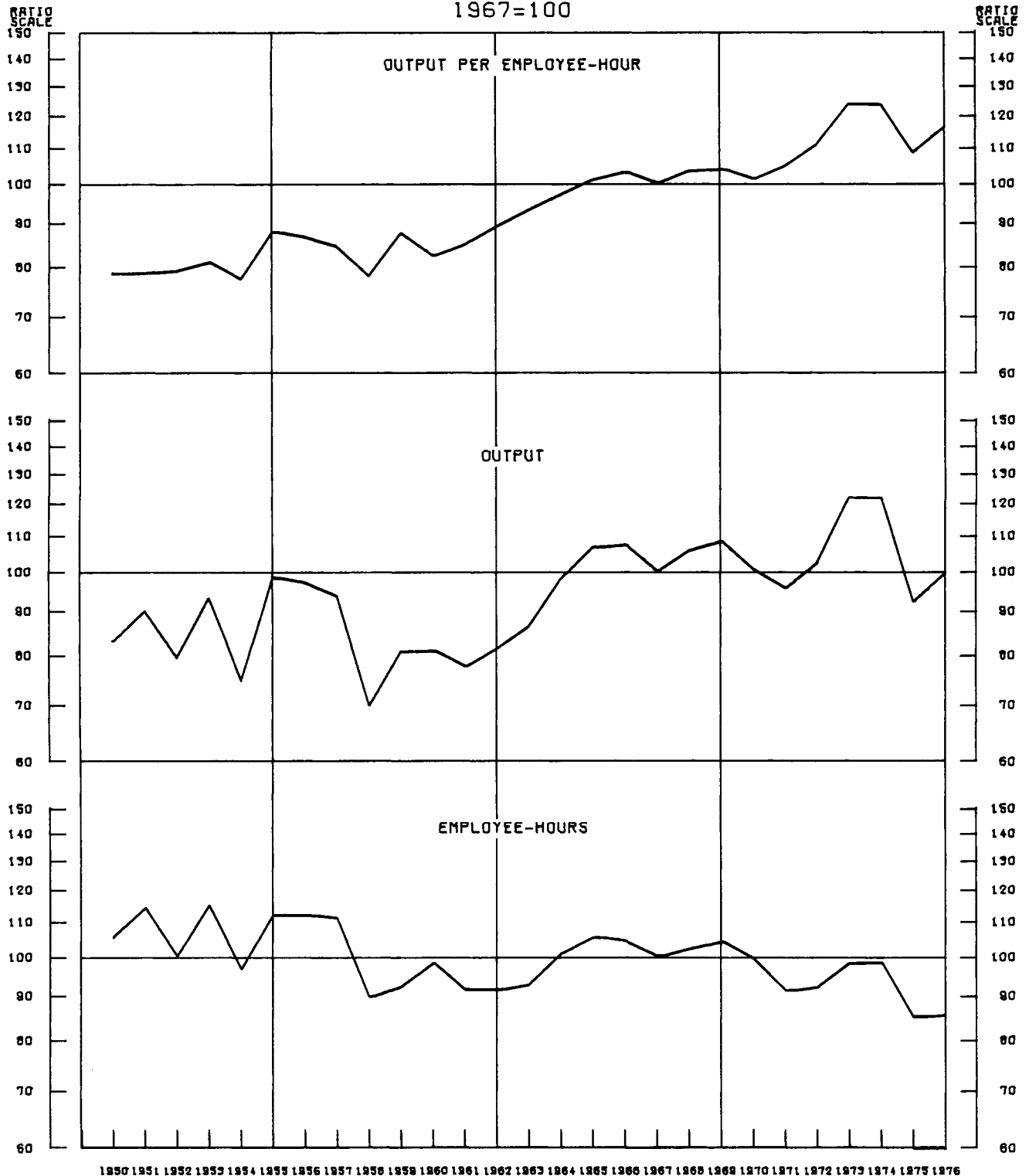
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 74
 READY-MIXED CONCRETE (SIC 3273), 1958-75
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



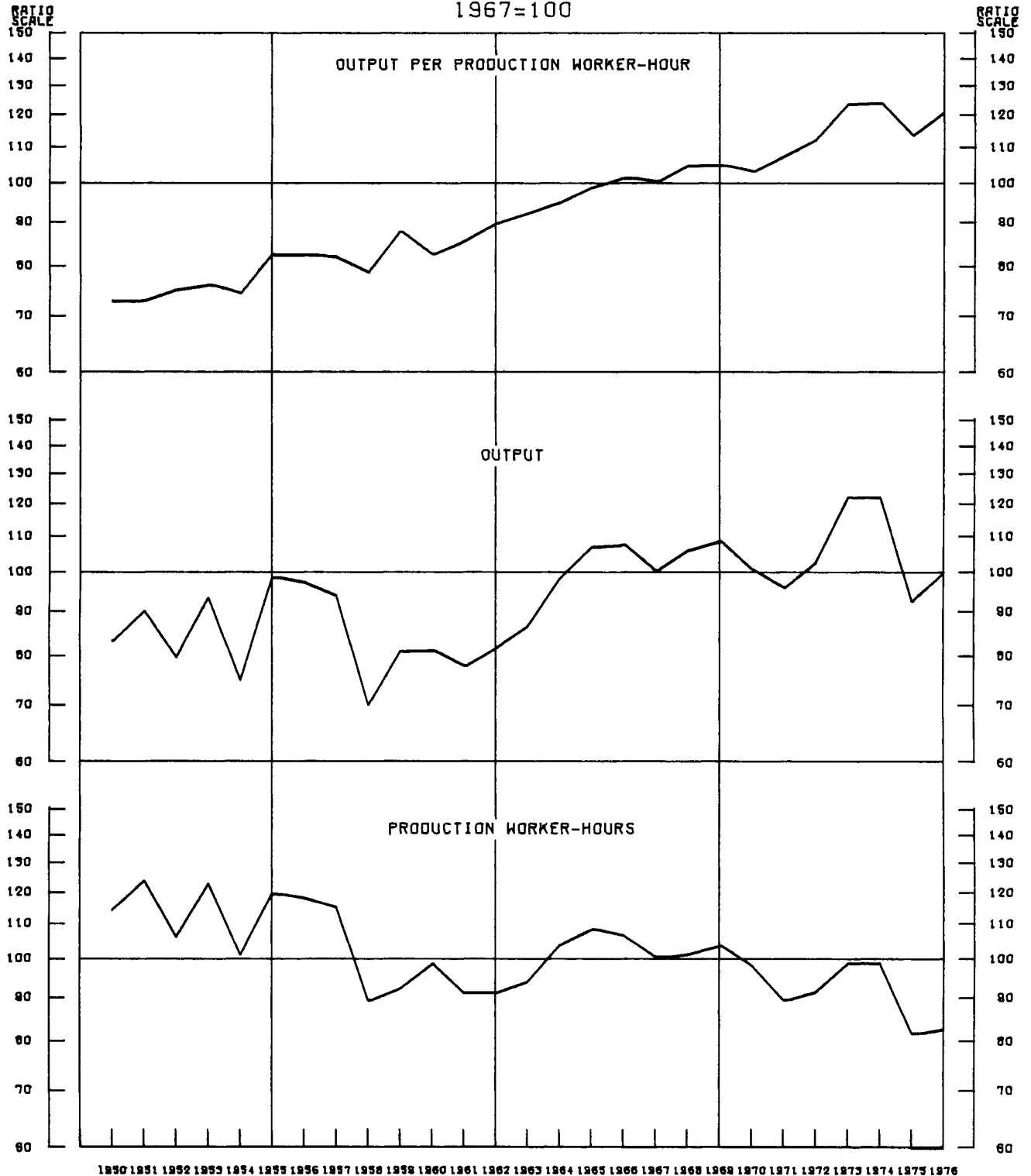
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

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



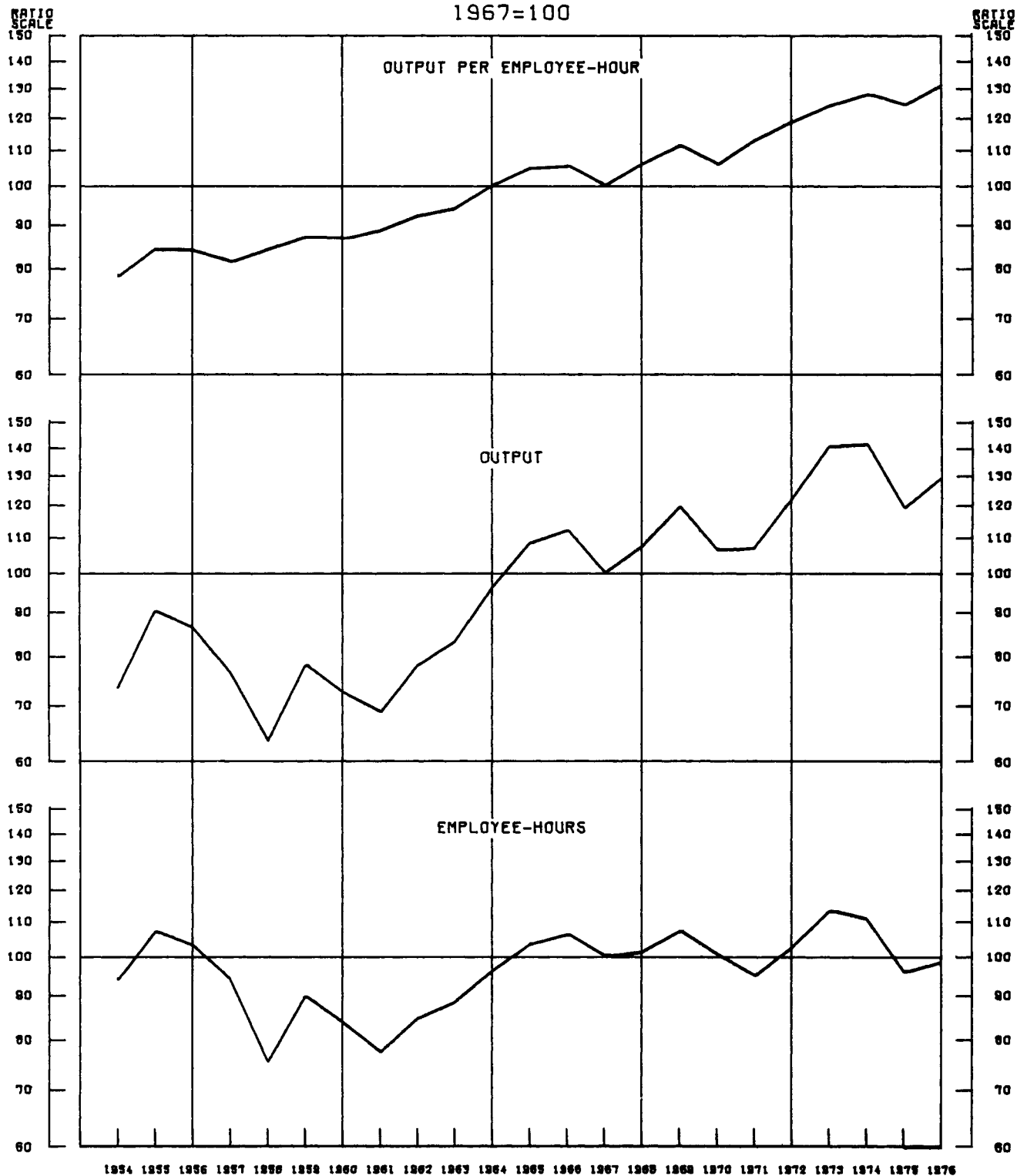
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

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



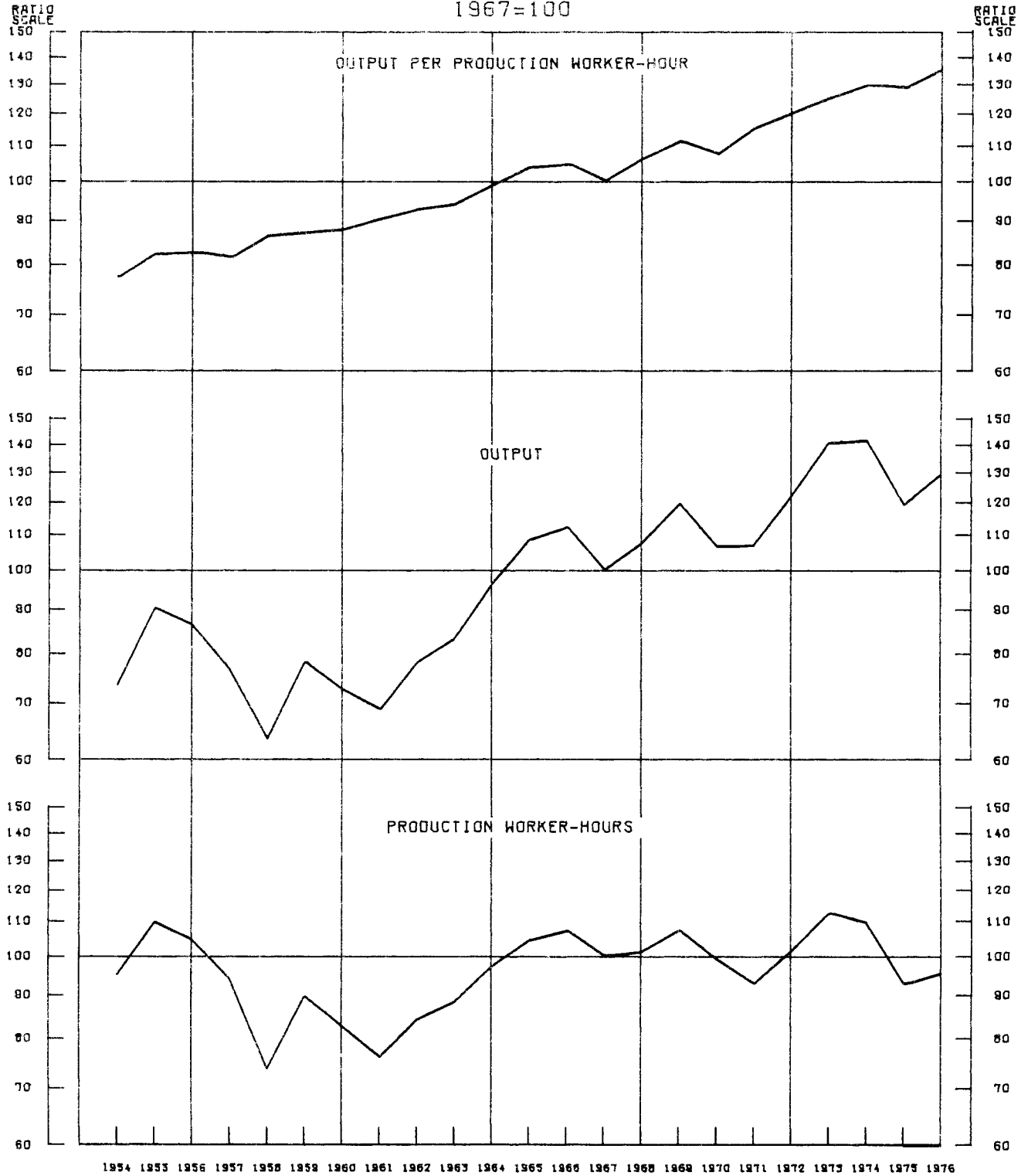
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 77
 GRAY IRON FOUNDRIES (SIC 3321), 1954-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



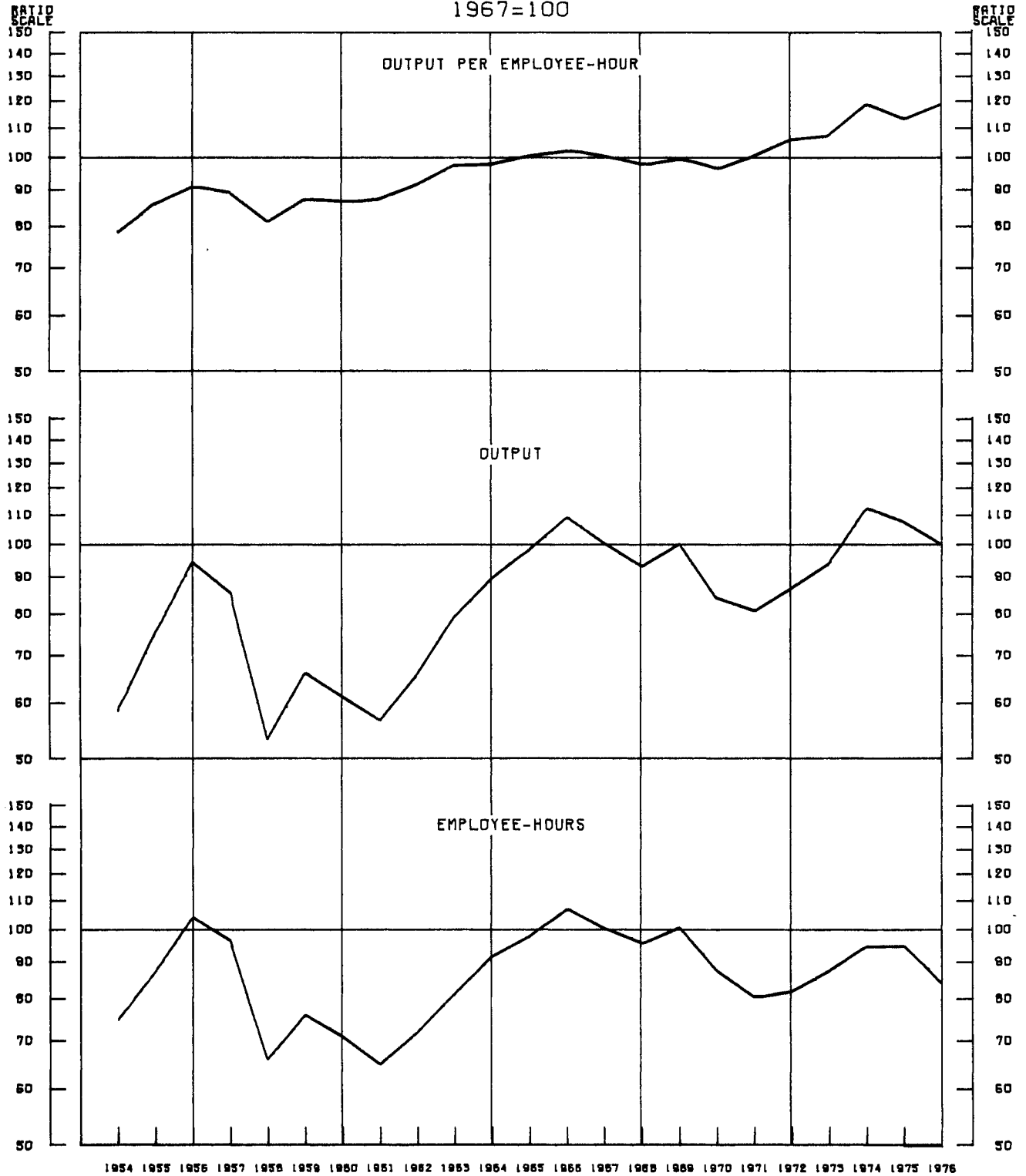
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 78
 GRAY IRON FOUNDRIES (SIC 3321), 1954-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



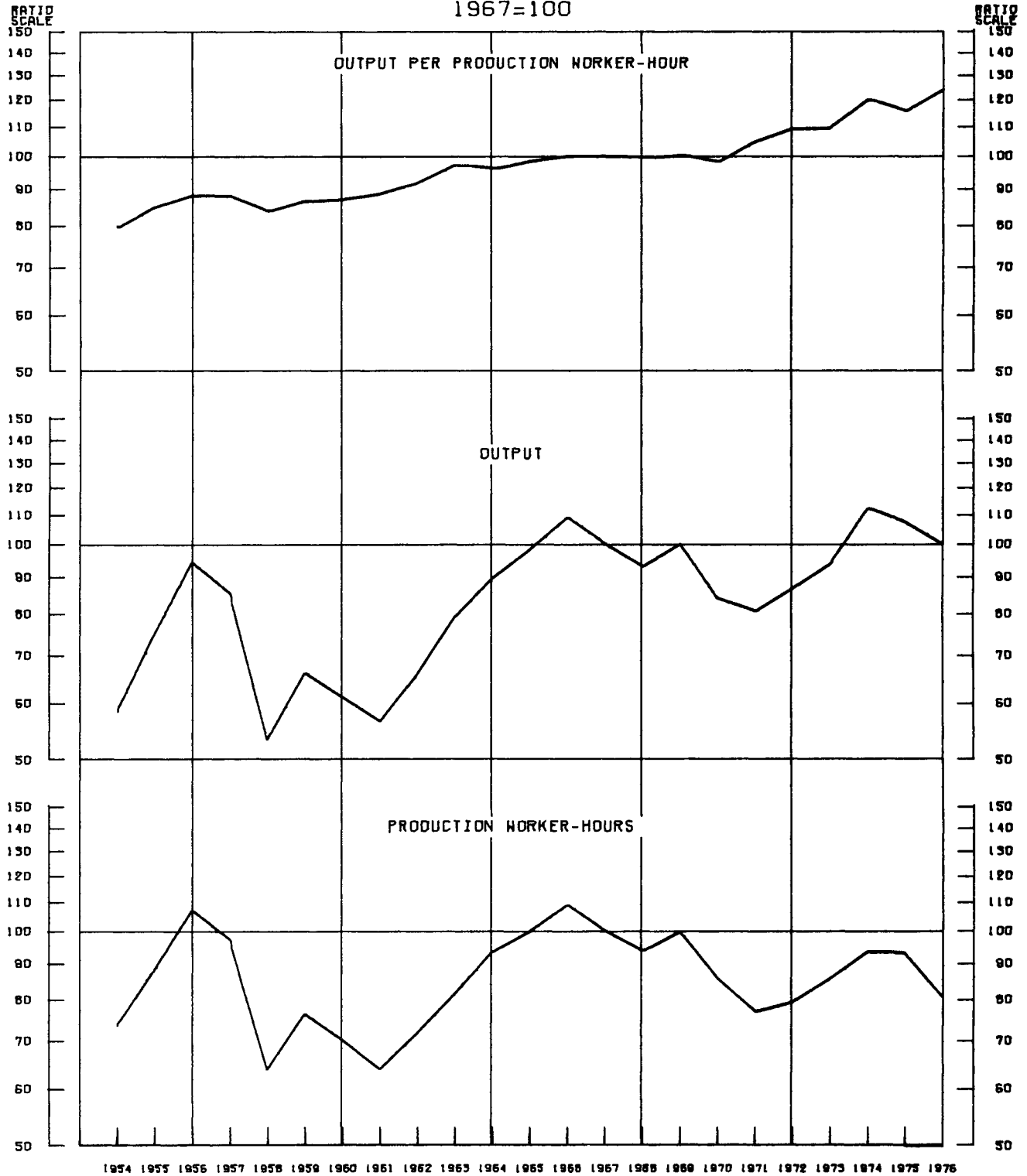
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 79
 STEEL FOUNDRIES (SIC 3324, 3325), 1954-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



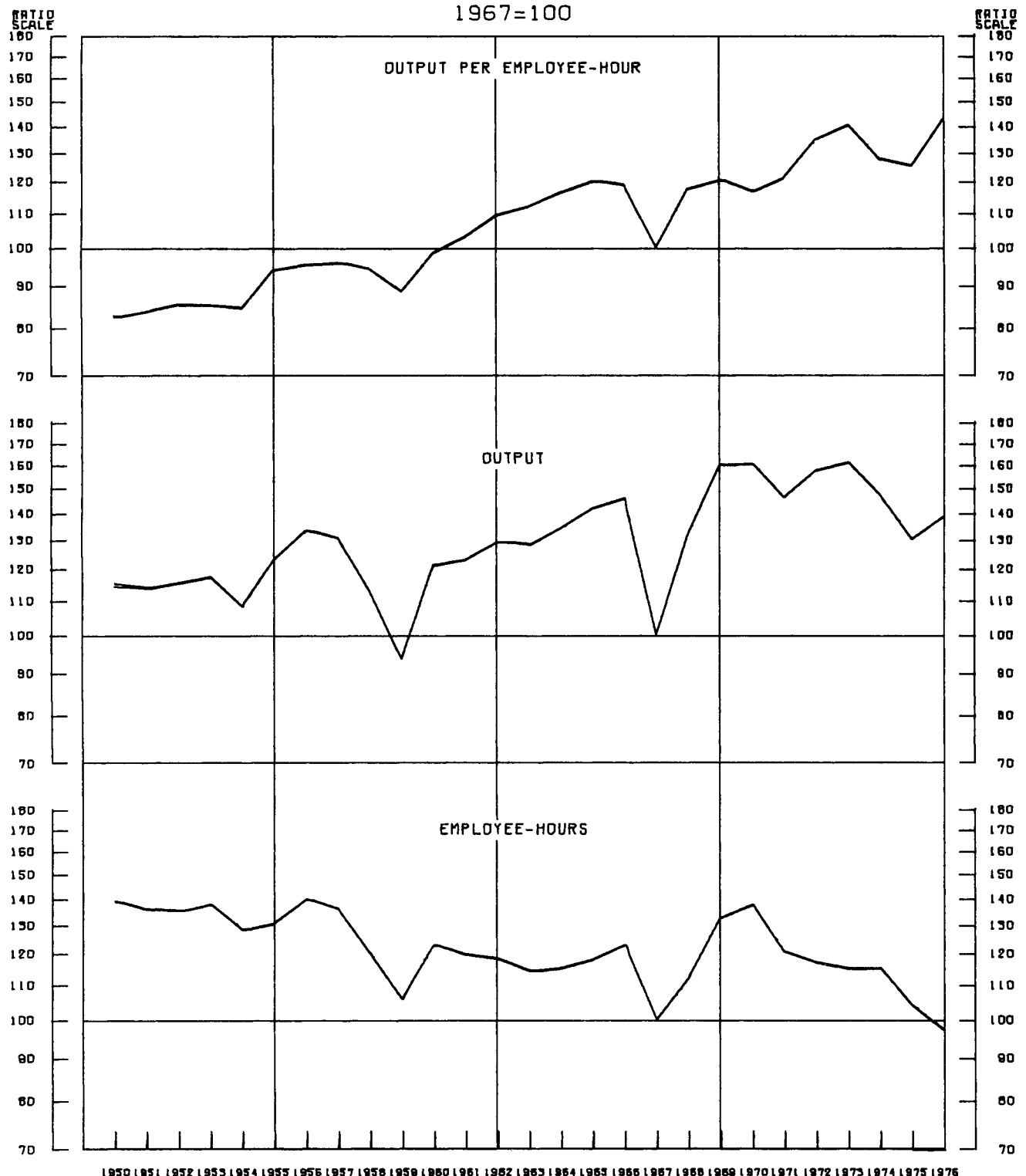
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 80
 STEEL FOUNDRIES (SIC 3324, 3325), 1954-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



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

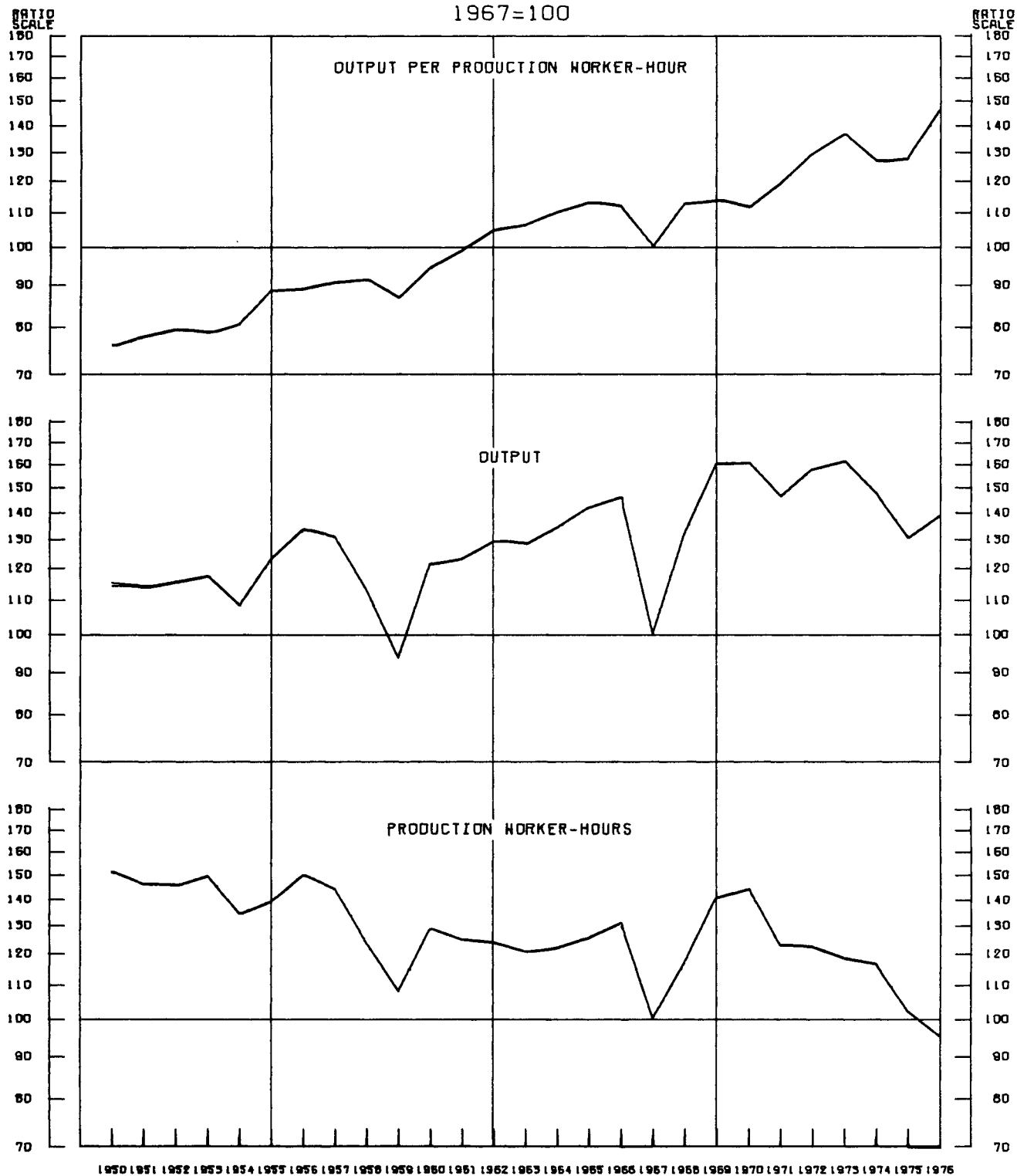
CHART 81
 PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



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 1976

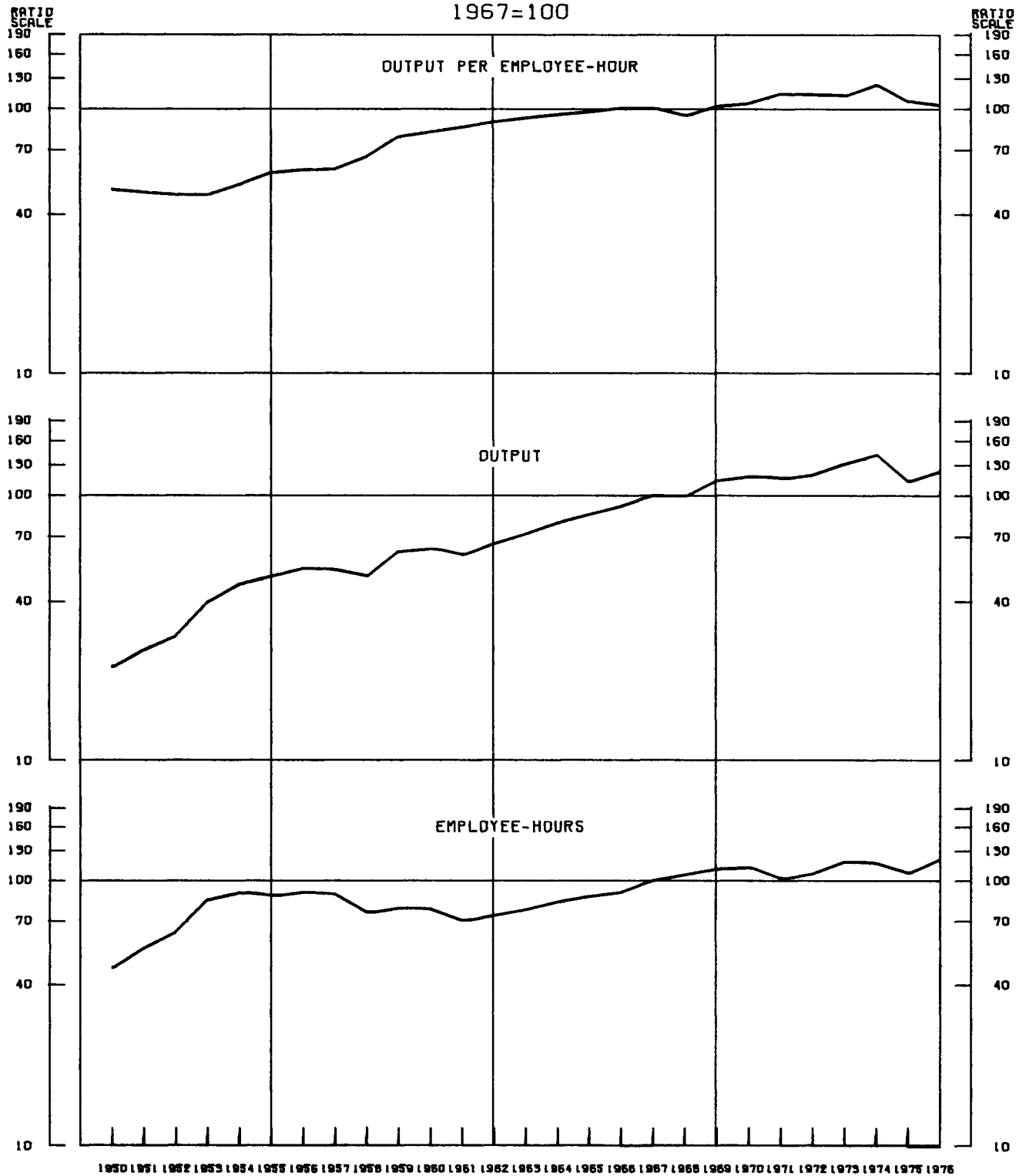
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 82
 PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



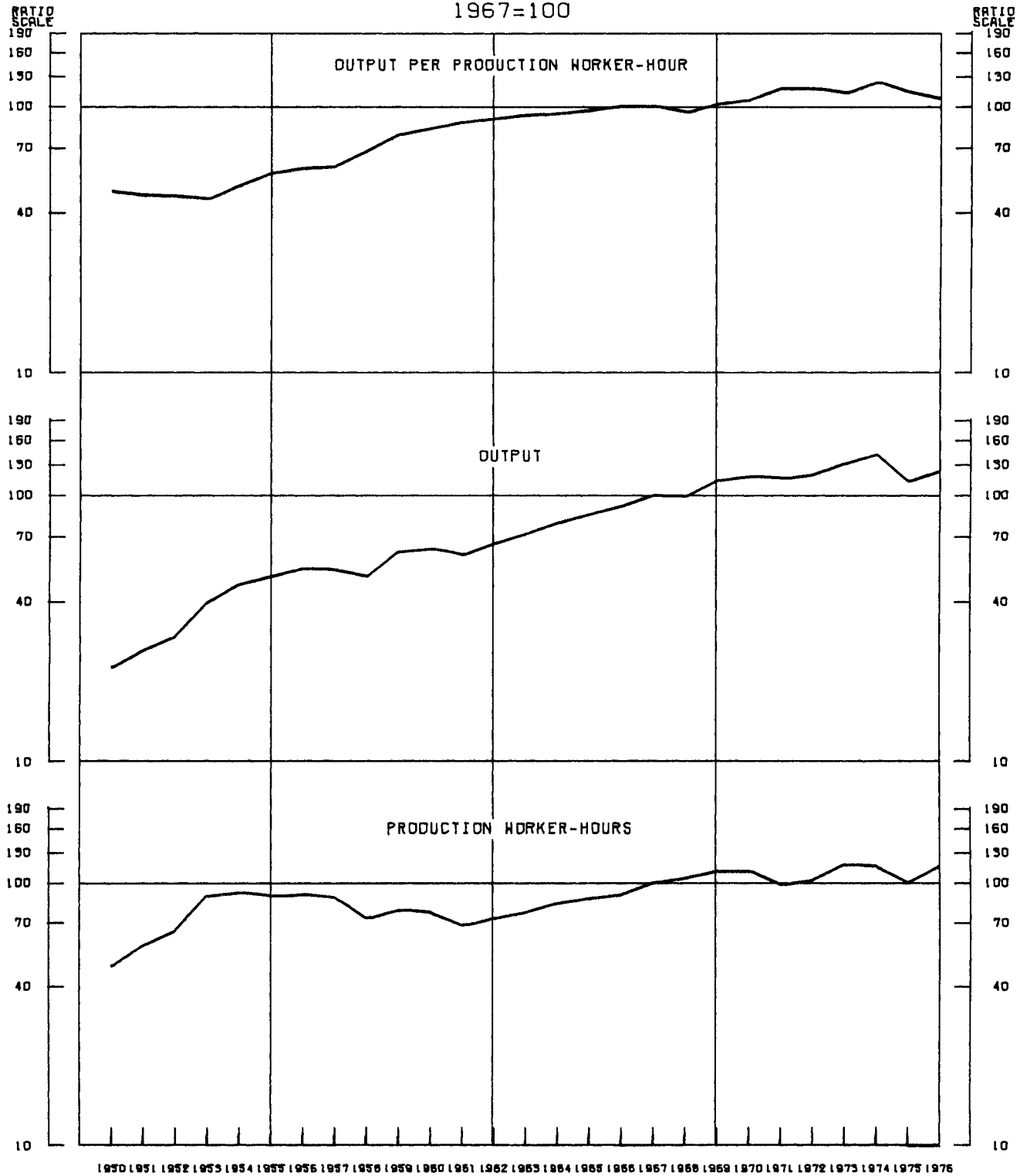
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 83
 PRIMARY ALUMINUM (SIC 3334), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



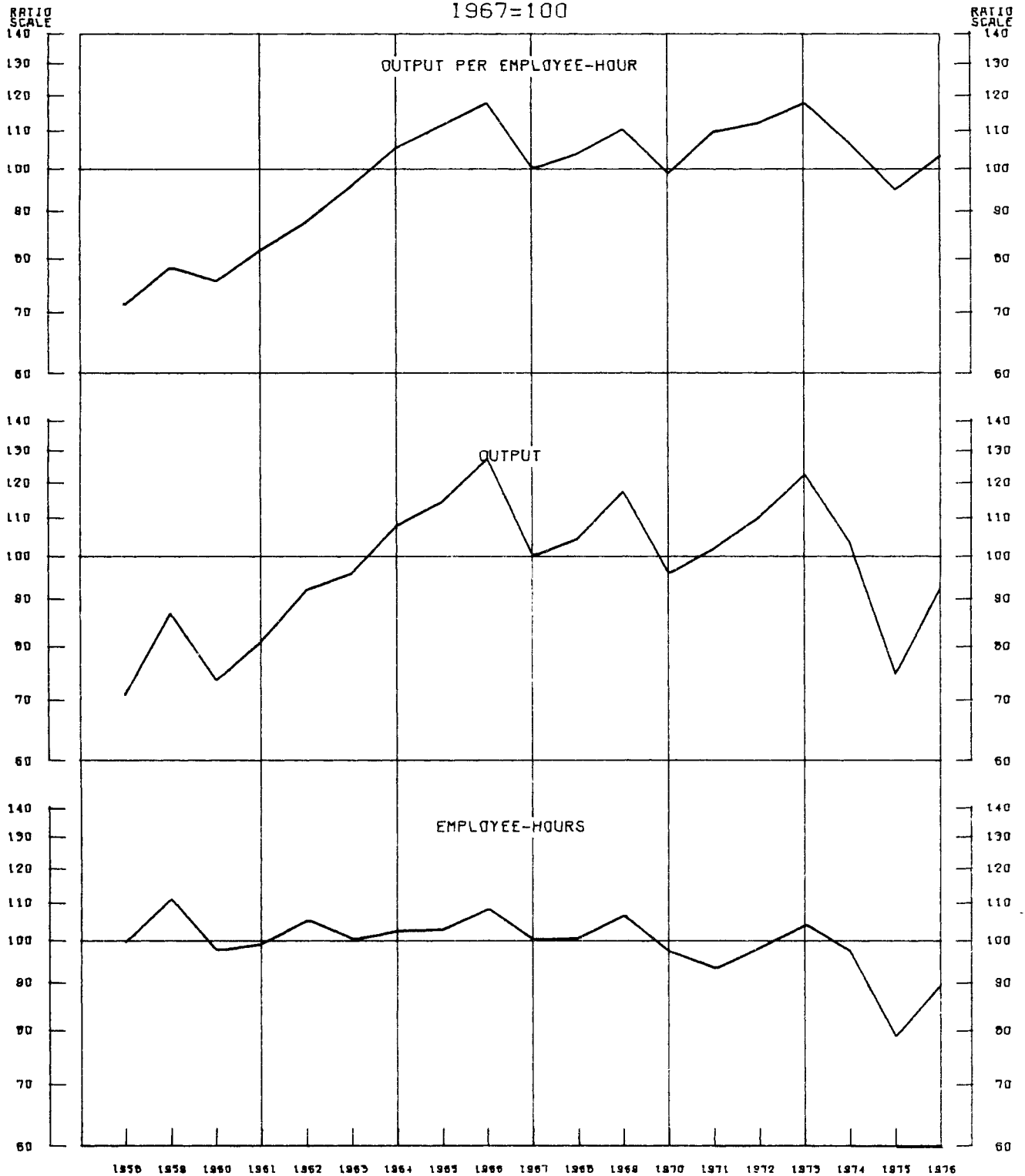
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 84
 PRIMARY ALUMINUM (SIC 3334), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



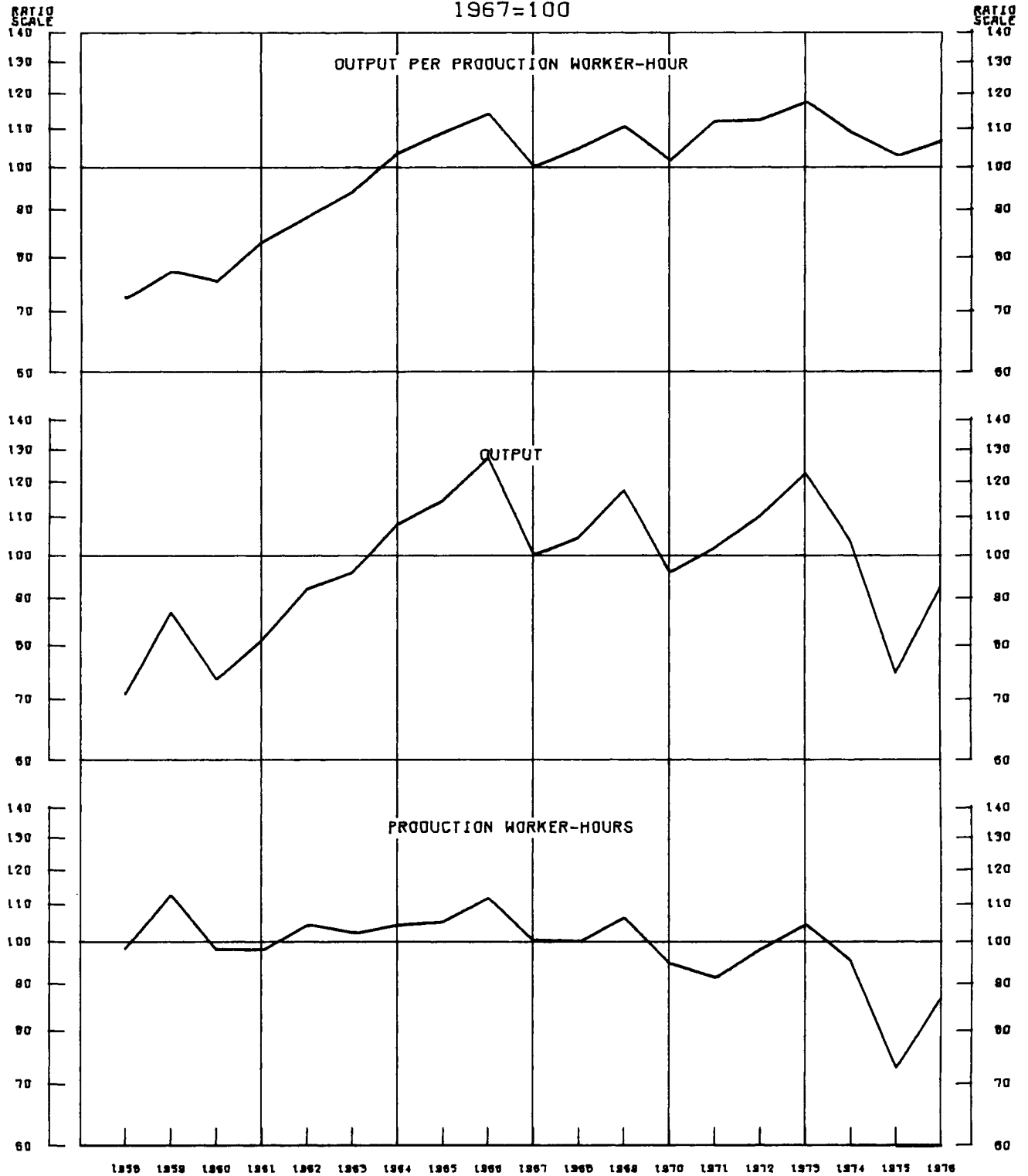
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 85
 COPPER ROLLING AND DRAWING (SIC 3351), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



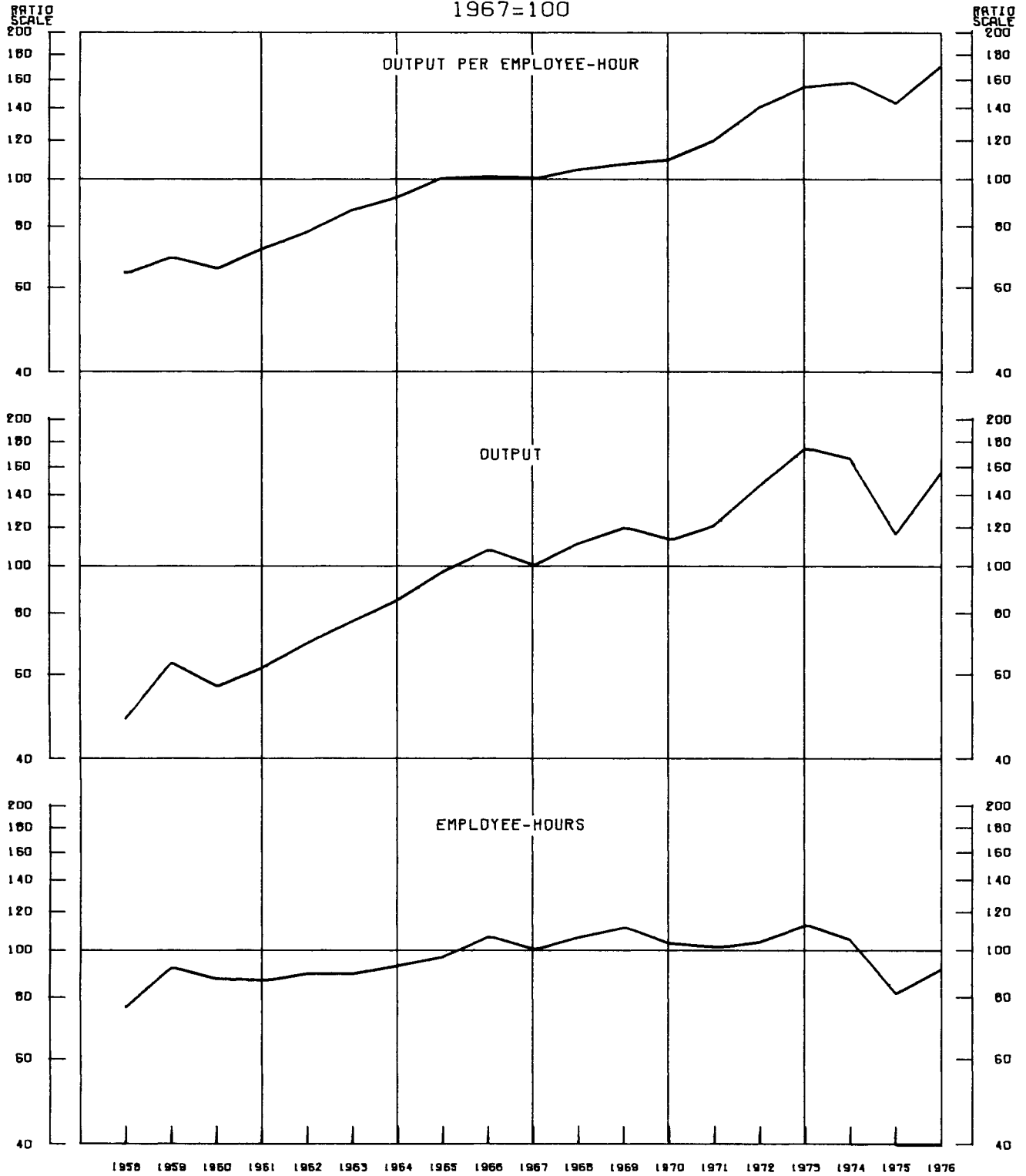
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 86
 COPPER ROLLING AND DRAWING (SIC 3351), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



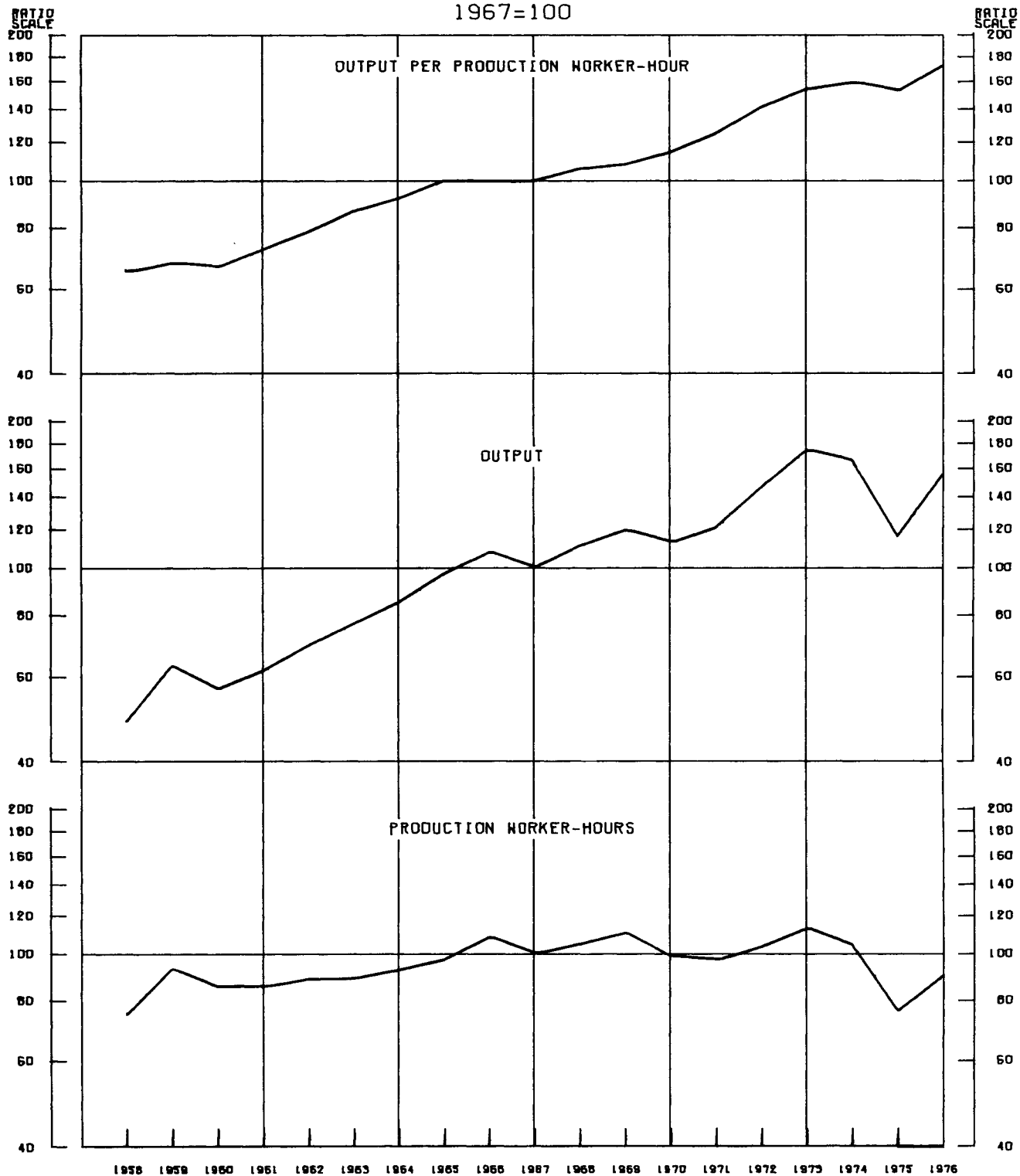
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 87
 ALUMINUM ROLLING AND DRAWING (SIC 3353, 3354, 3355), 1958-76
 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), 1958-76
 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), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



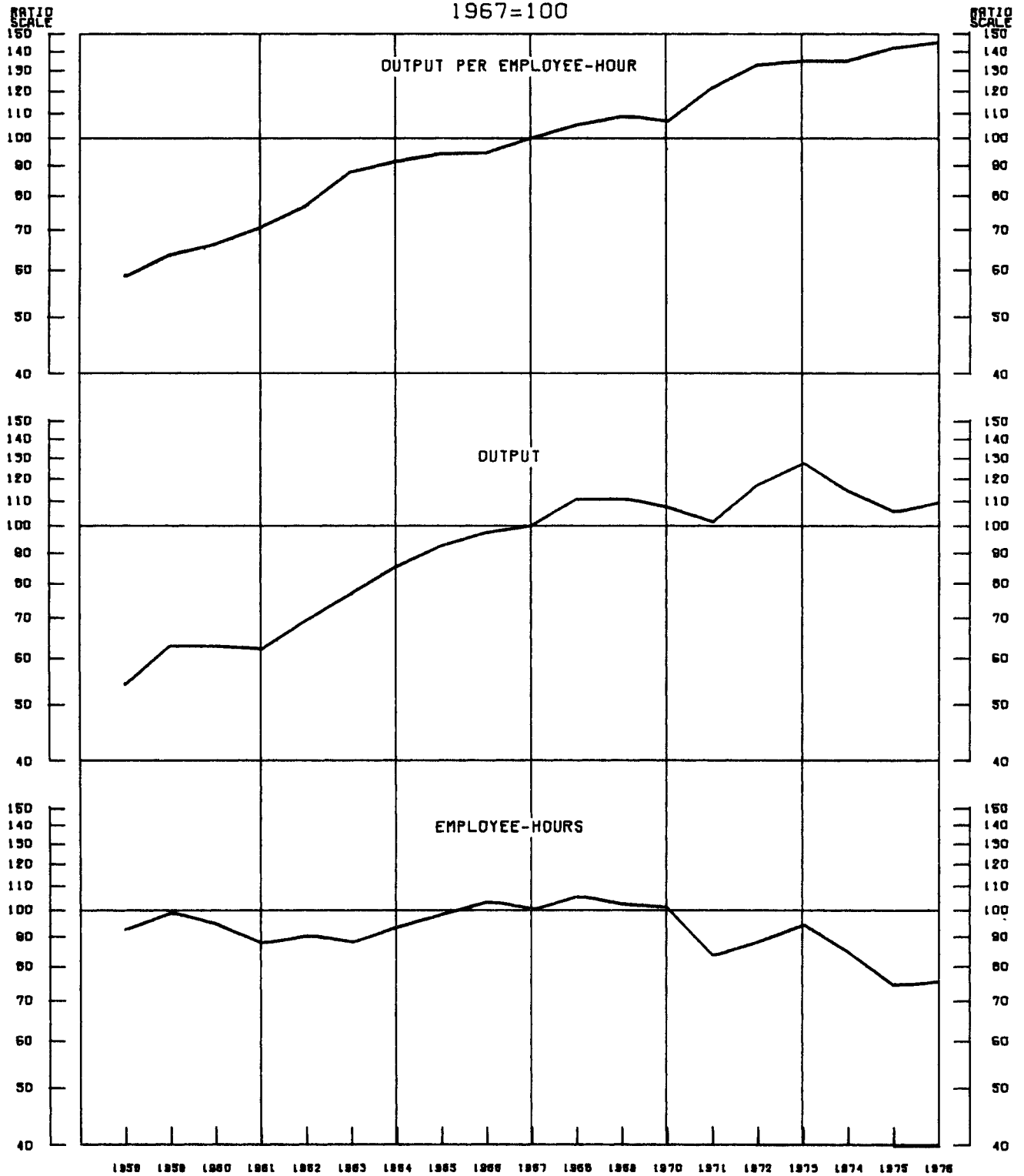
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 90
 METAL CANS (SIC 341), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



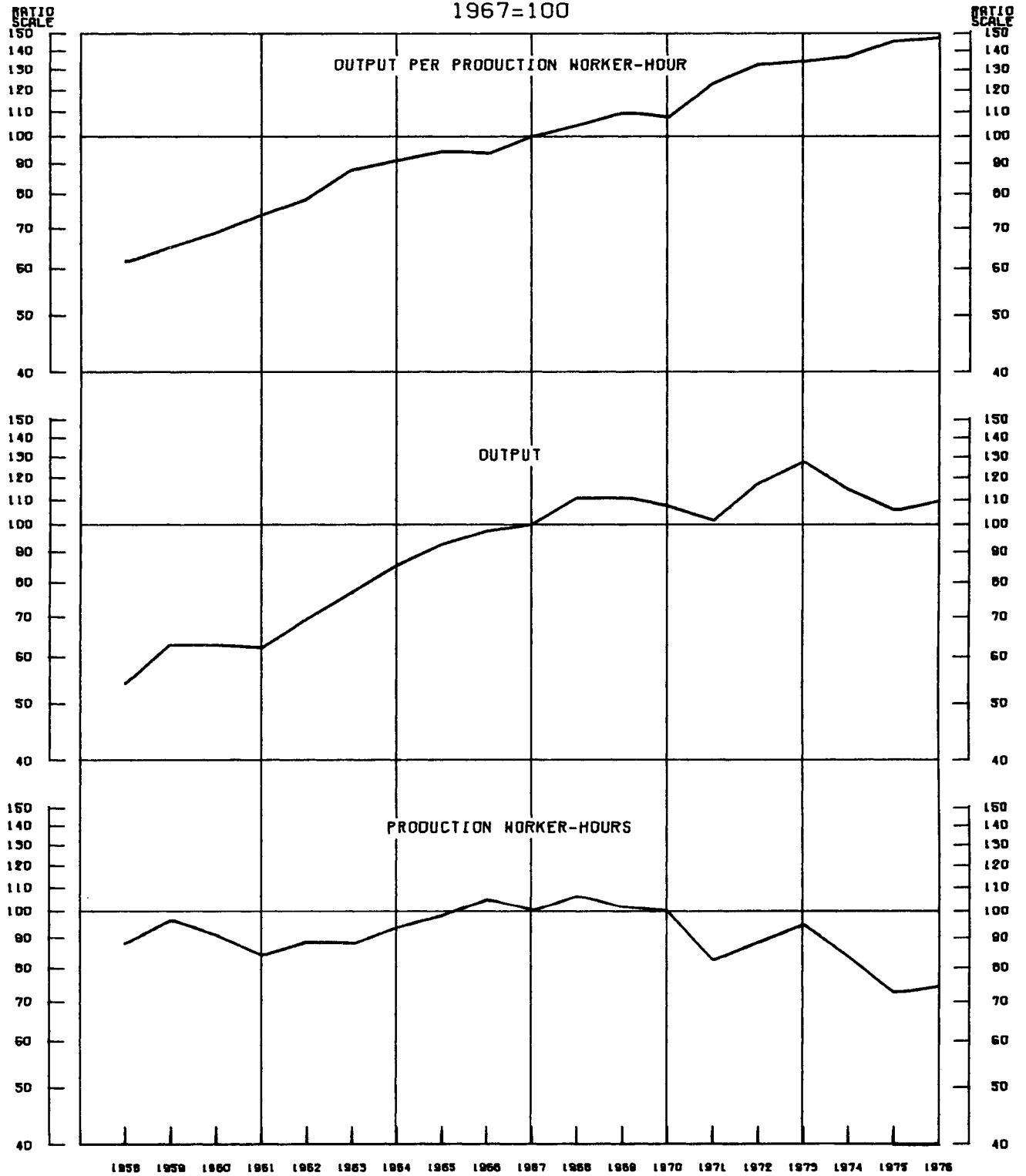
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 91
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



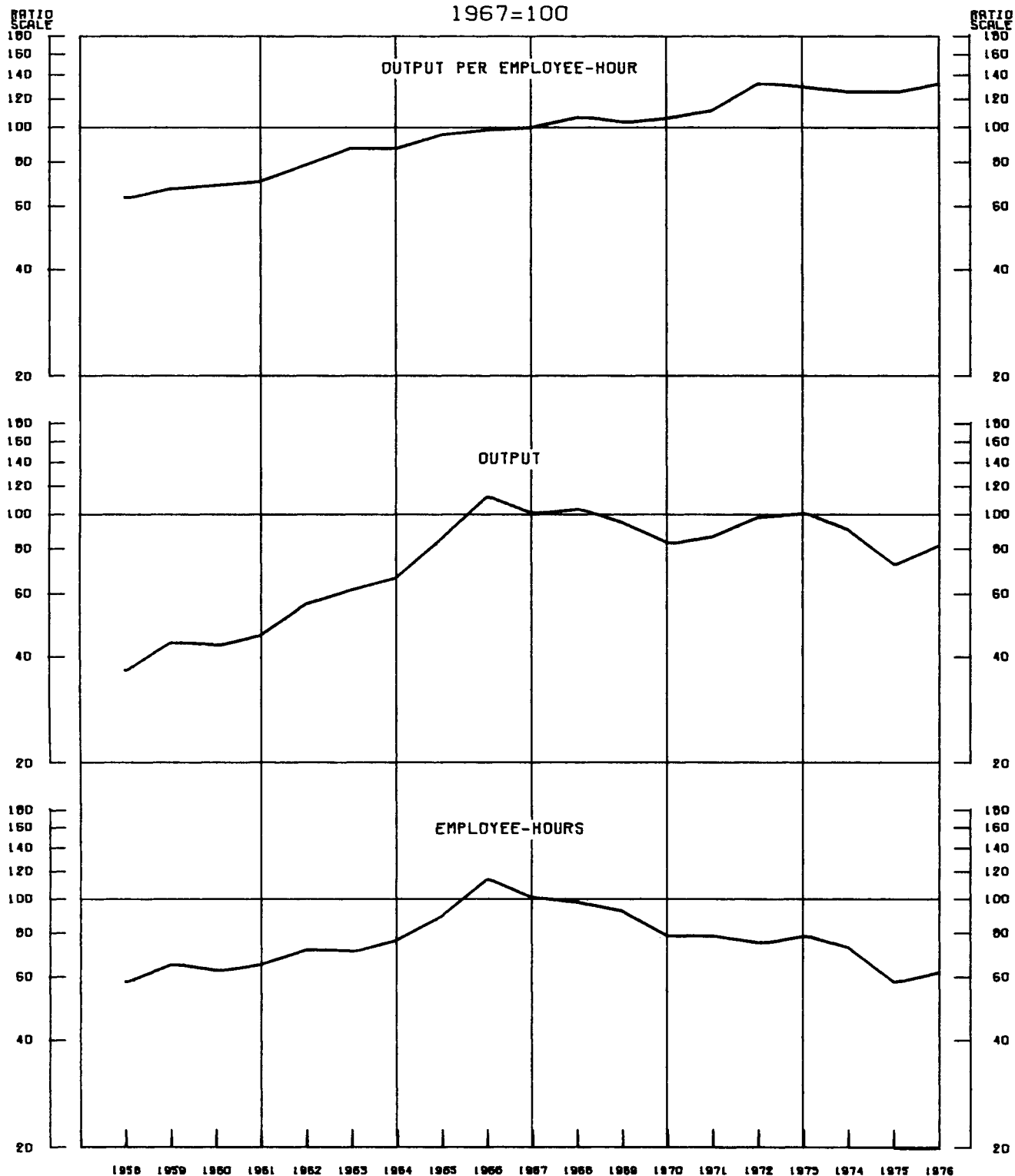
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 92
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



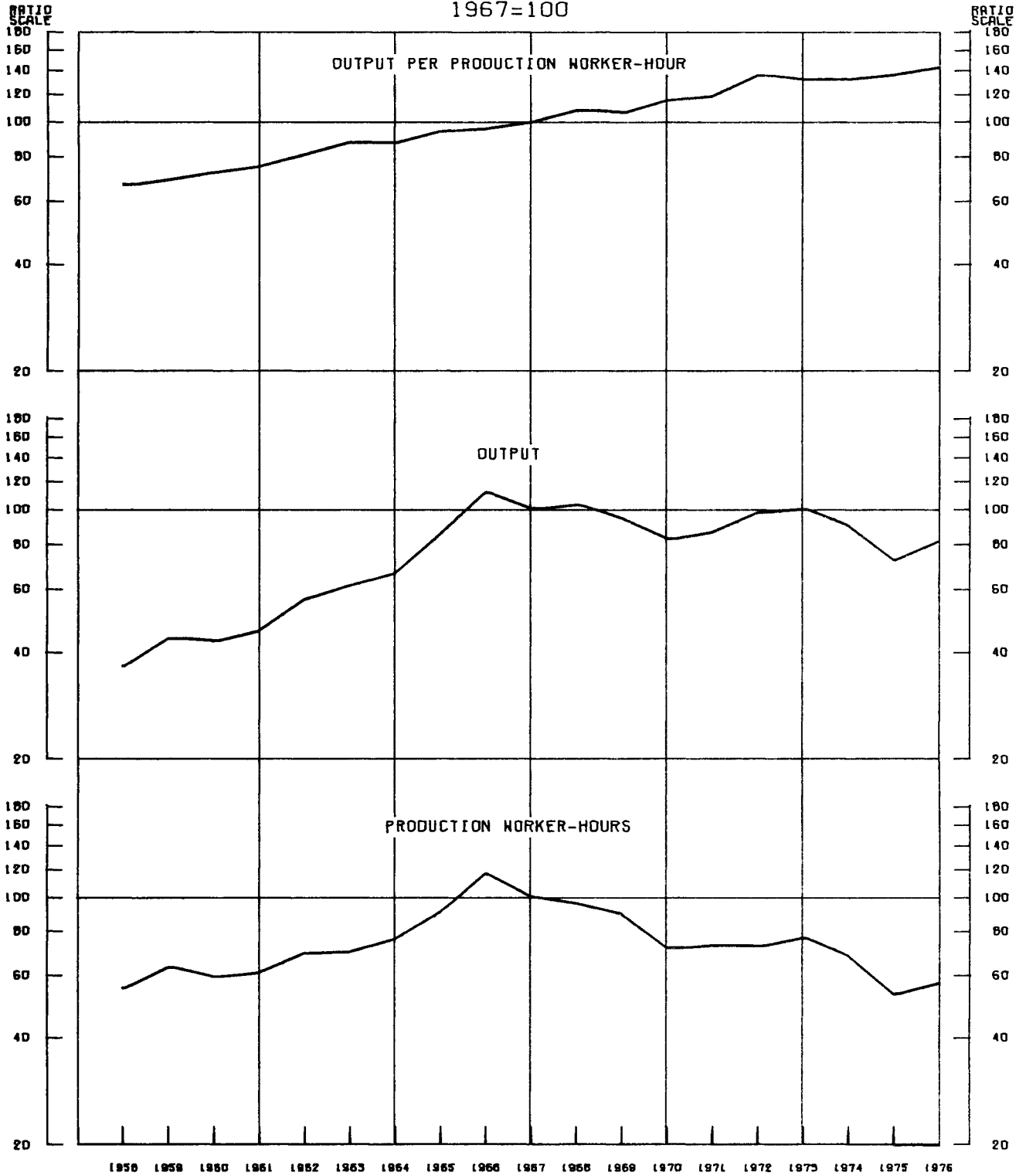
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 93
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



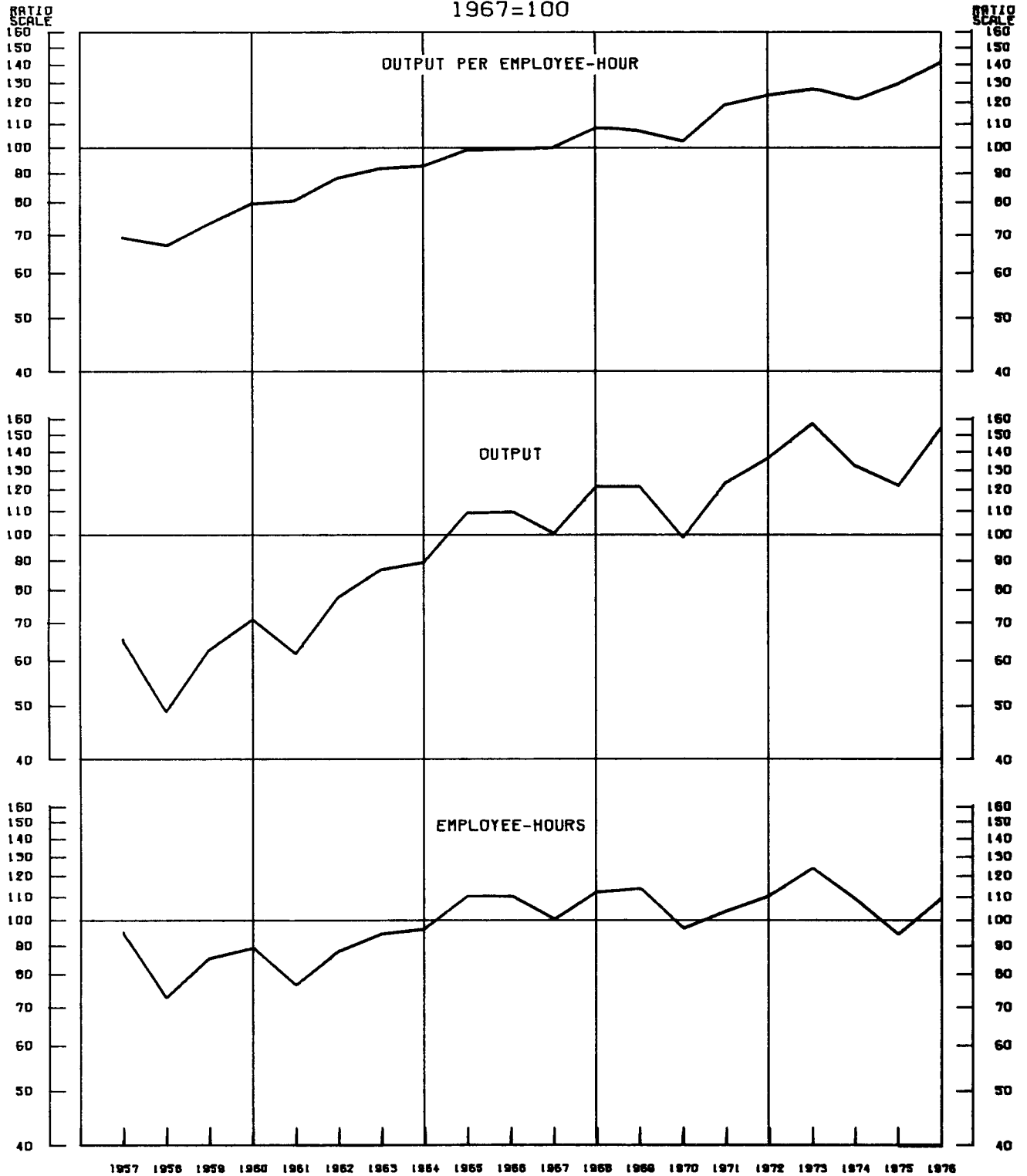
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 94
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



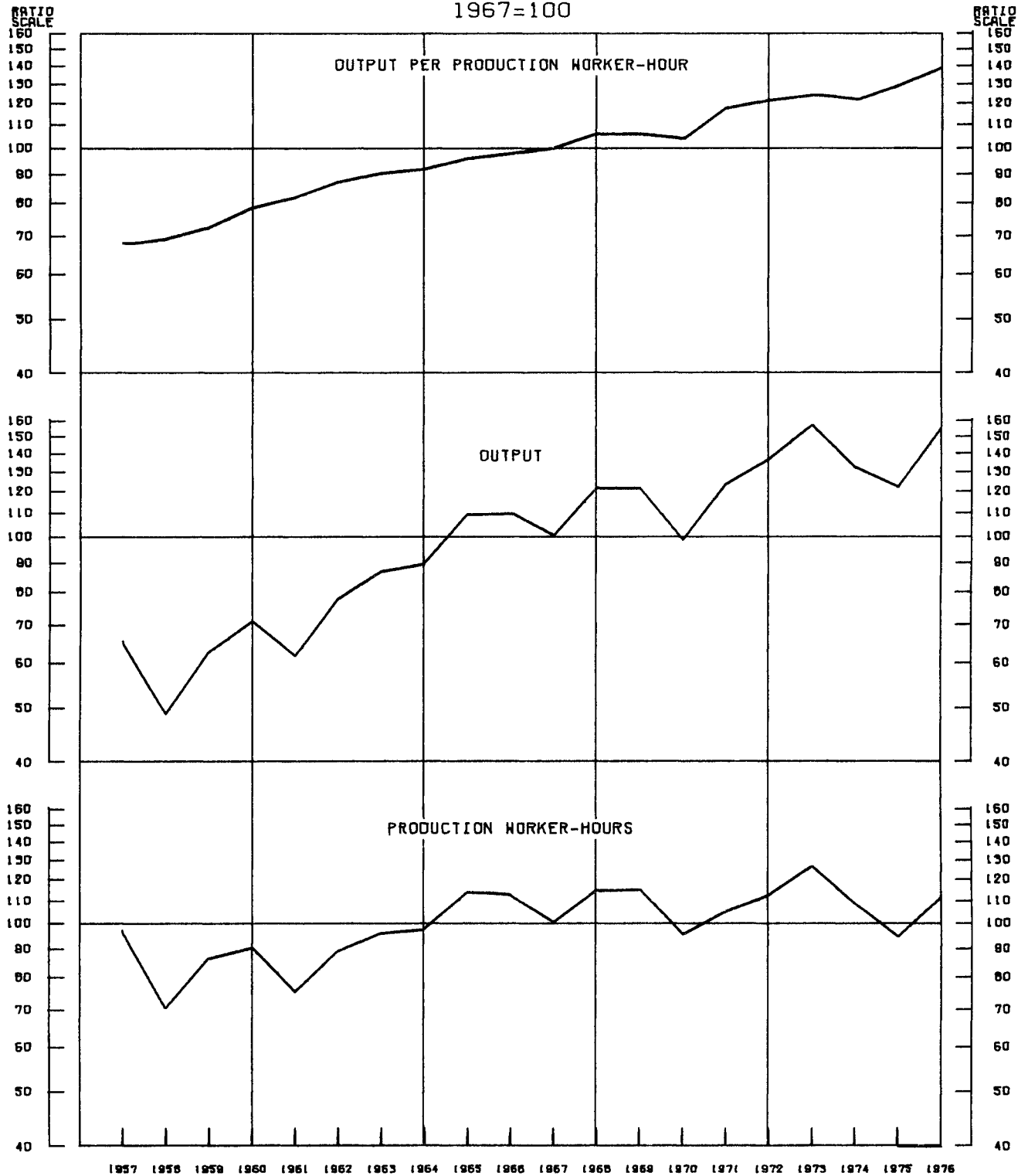
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 95
 MOTOR VEHICLES AND EQUIPMENT (SIC 371), 1957-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



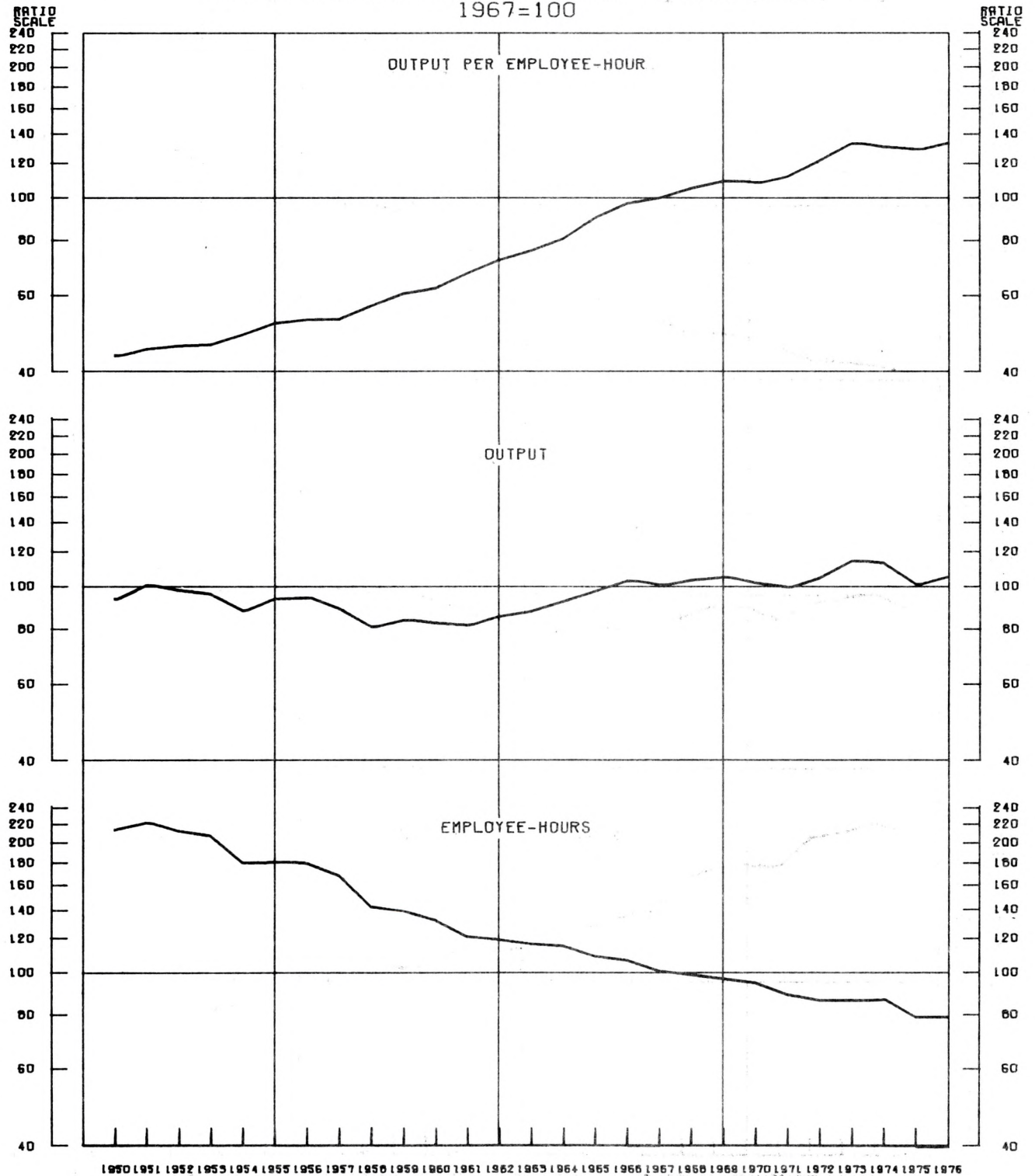
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 96
 MOTOR VEHICLES AND EQUIPMENT (SIC 371). 1957-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



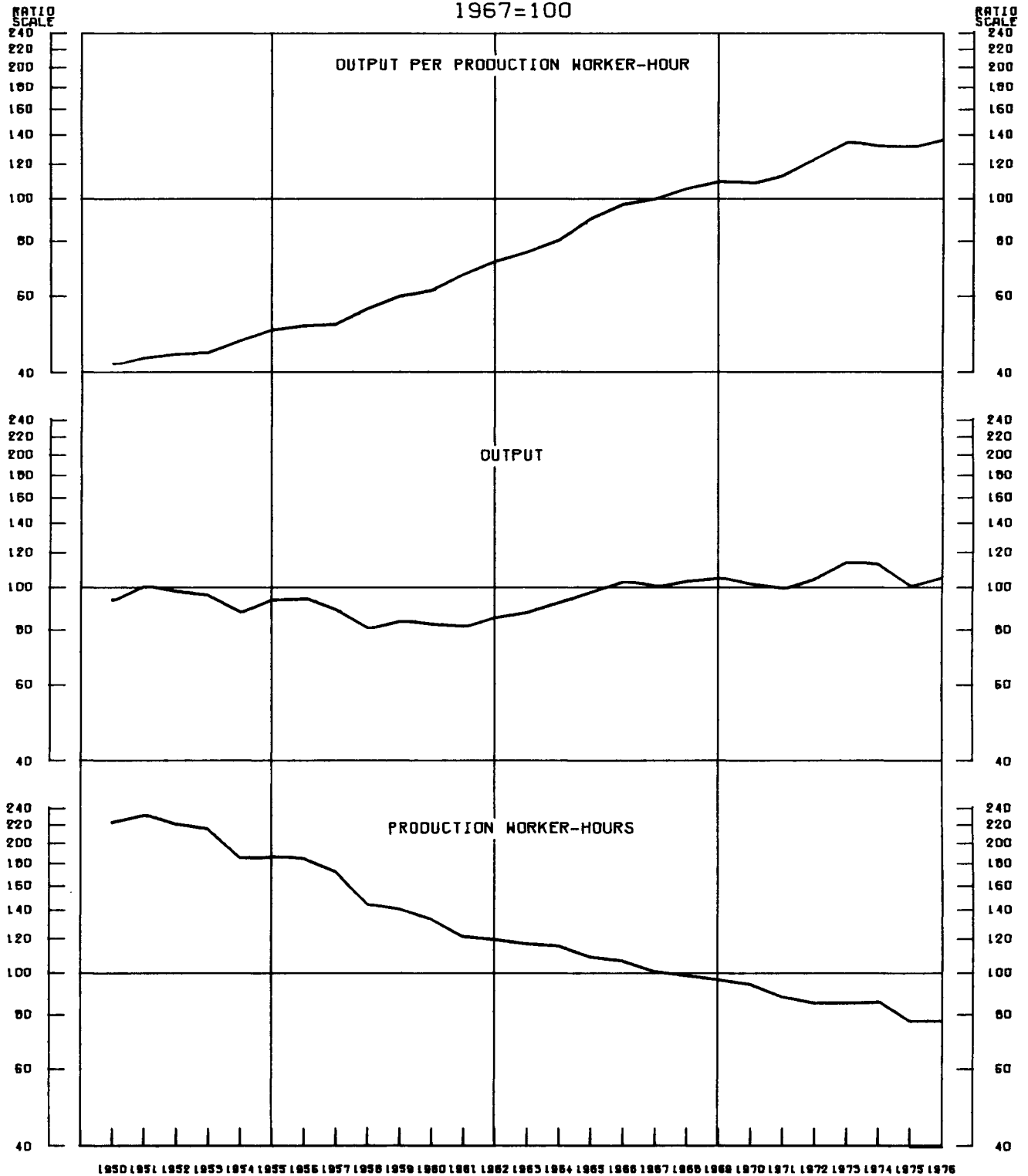
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 97
 RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



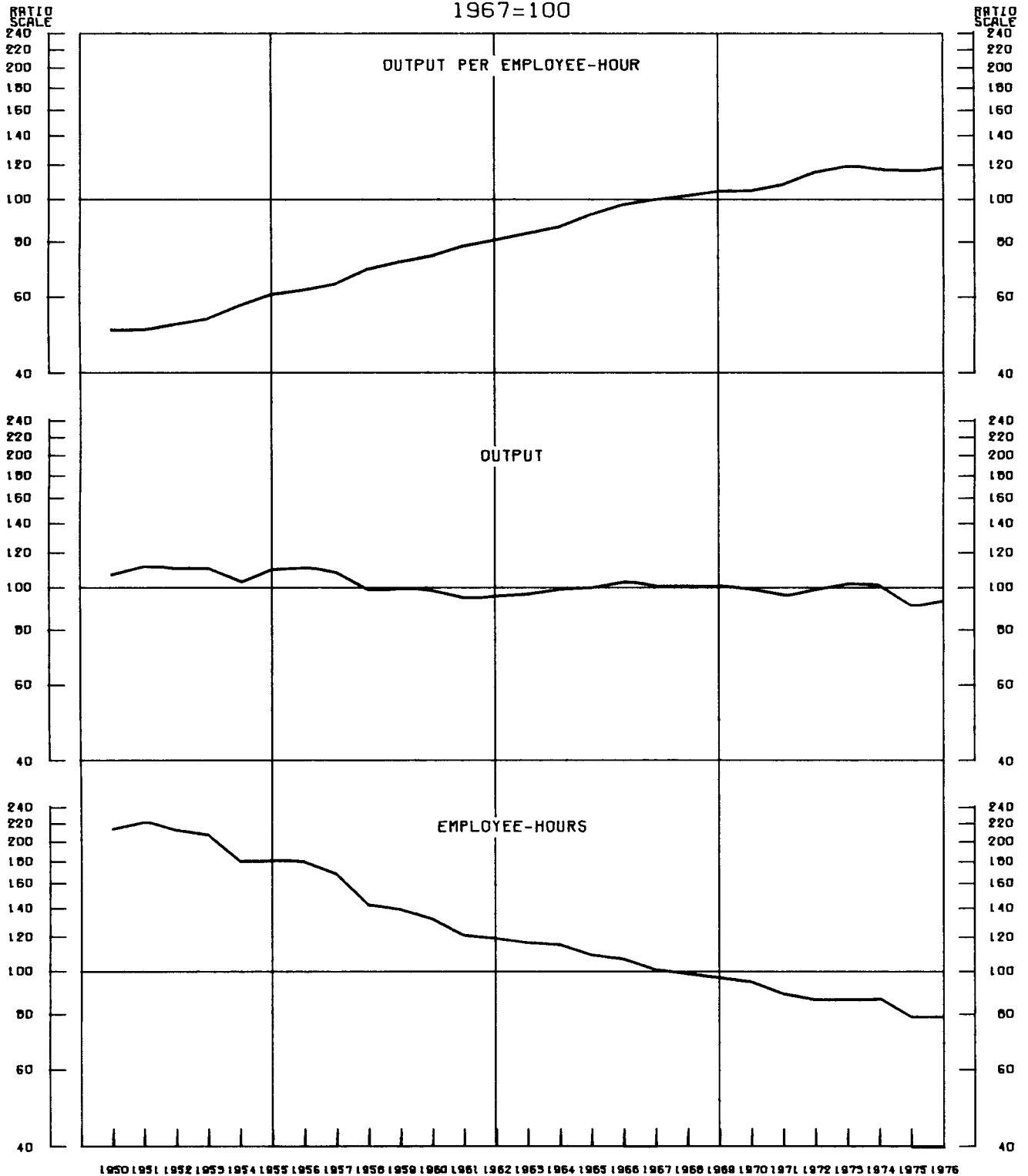
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 98
 RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



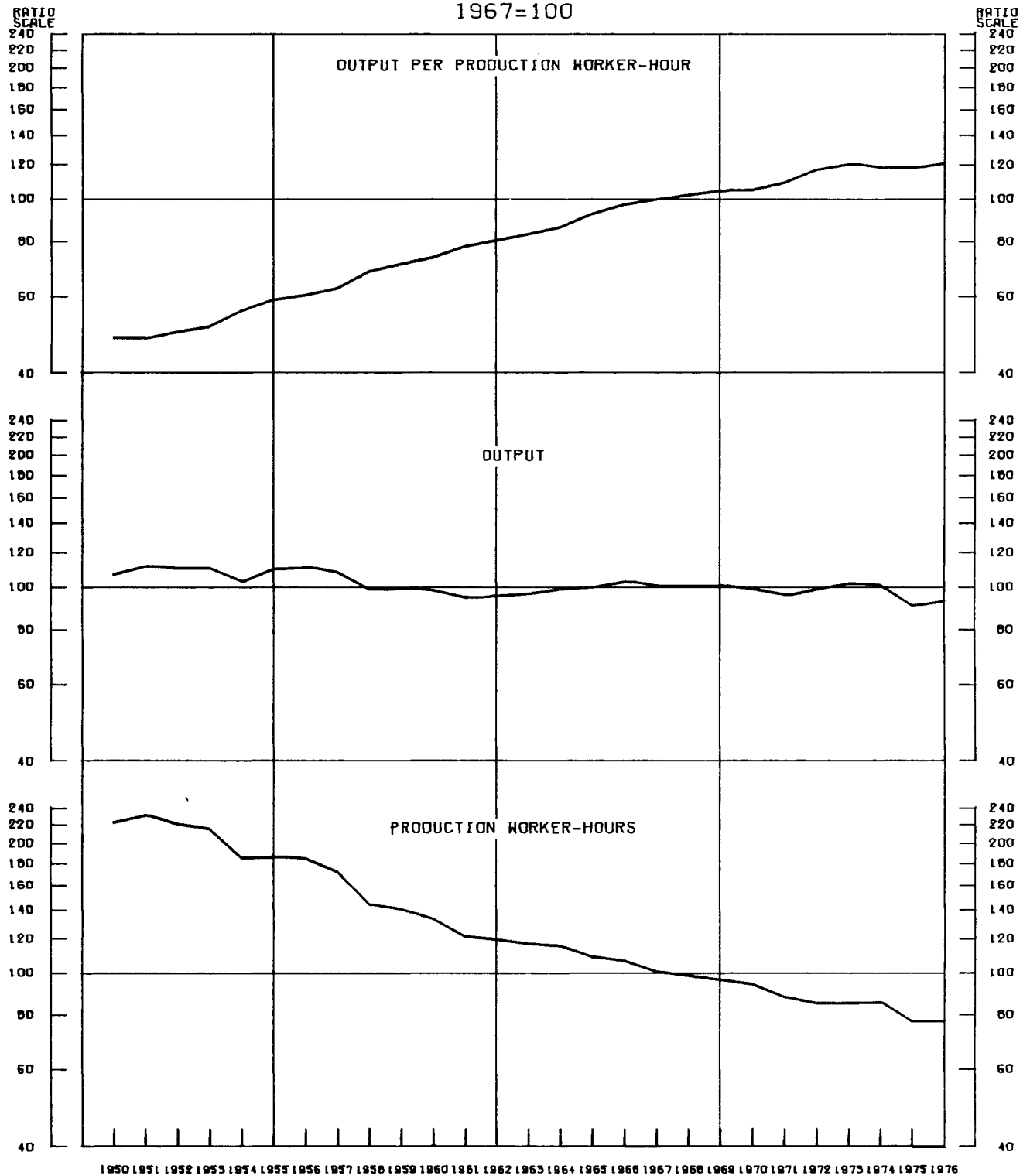
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 99
 RAILROADS, CAR MILES (SIC 401, CLASS I), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



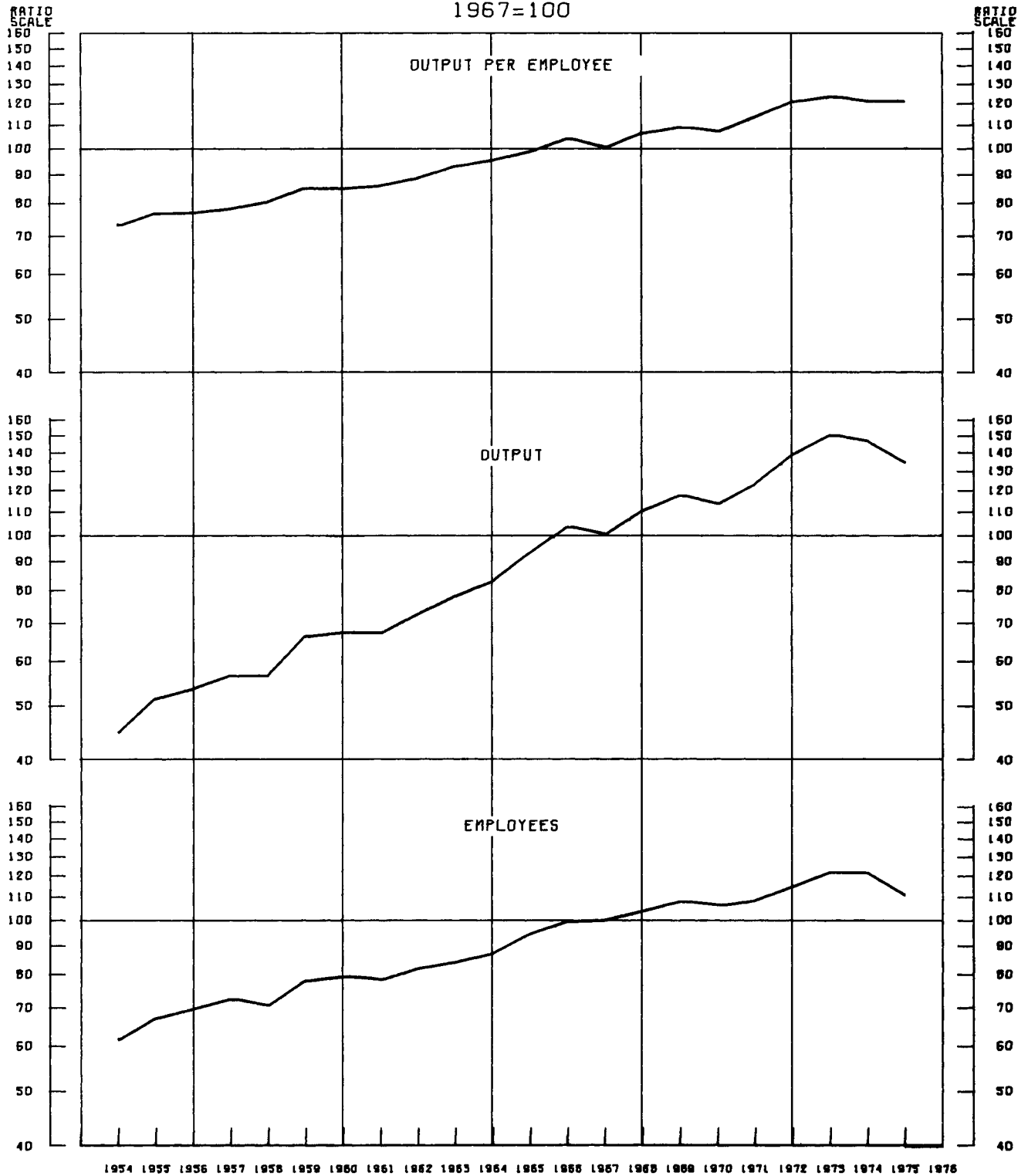
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 100
 RAILROADS, CAR MILES (SIC 401, CLASS I), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



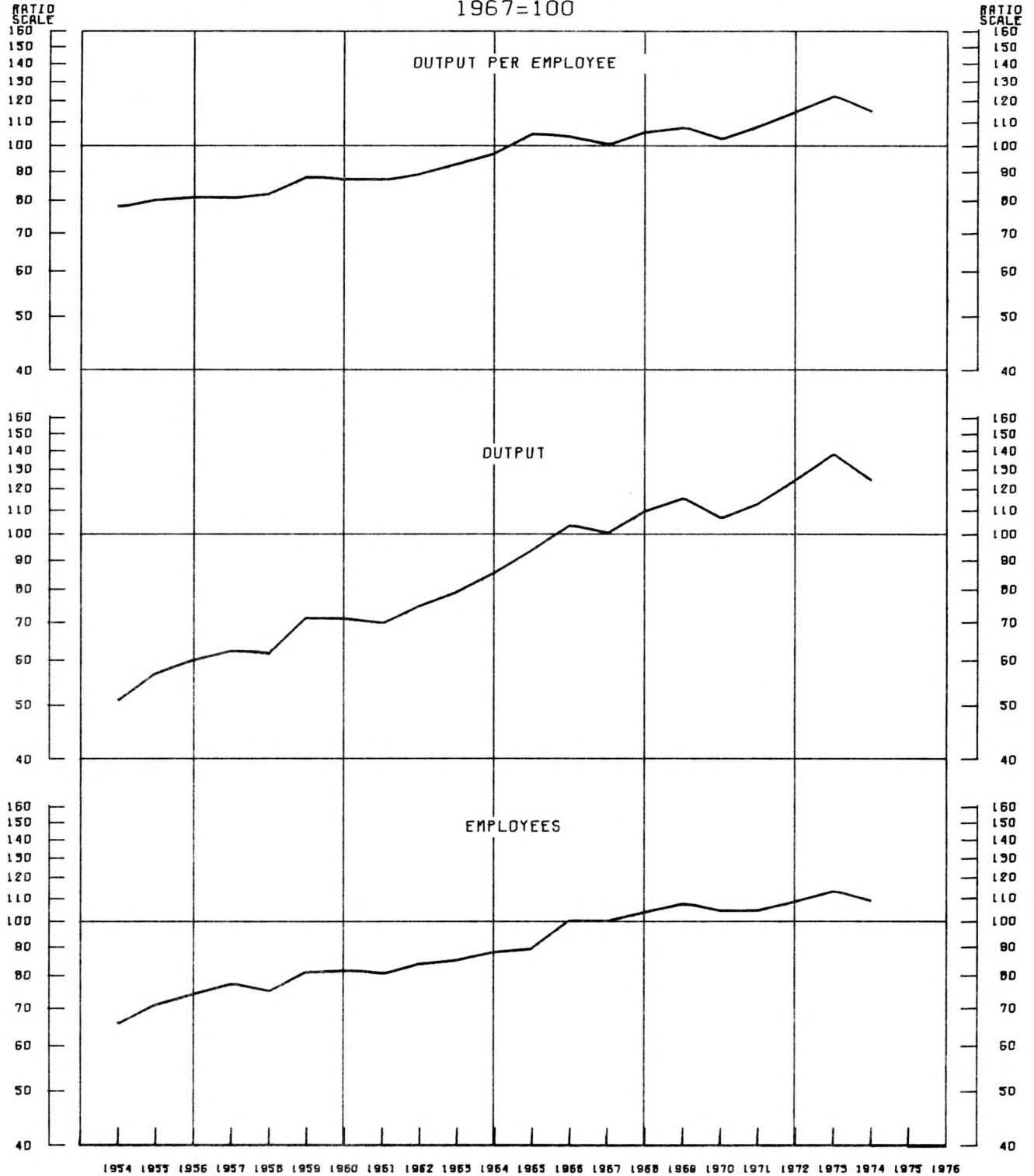
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 101
 INTERCITY TRUCKING (SIC 4213 PT), 1954-75
 OUTPUT PER EMPLOYEE AND RELATED DATA
 1967=100



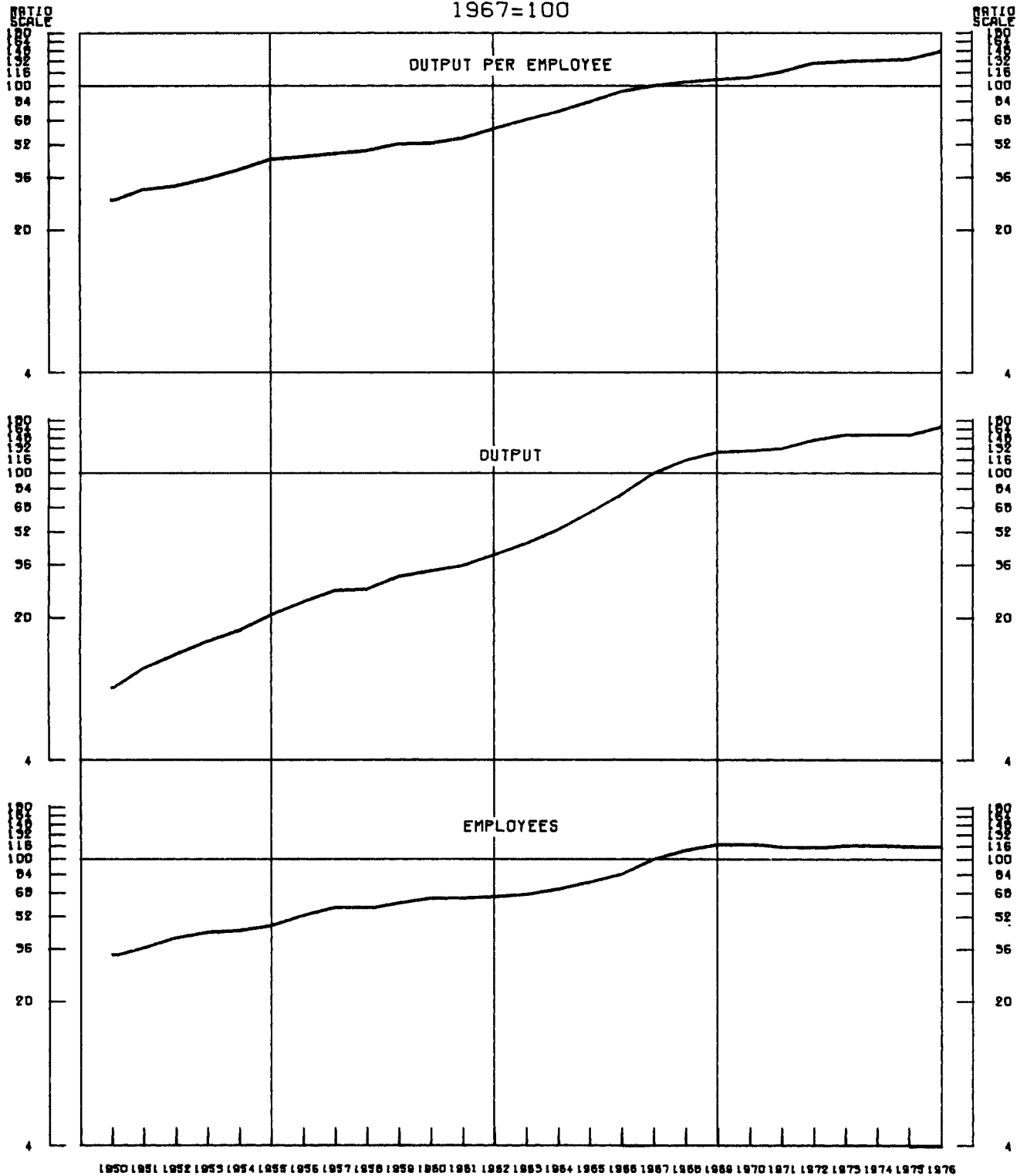
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 102
 INTERCITY TRUCKING - GENERAL FREIGHT (SIC 4213 PT), 1954-74
 OUTPUT PER EMPLOYEE AND RELATED DATA
 1967=100



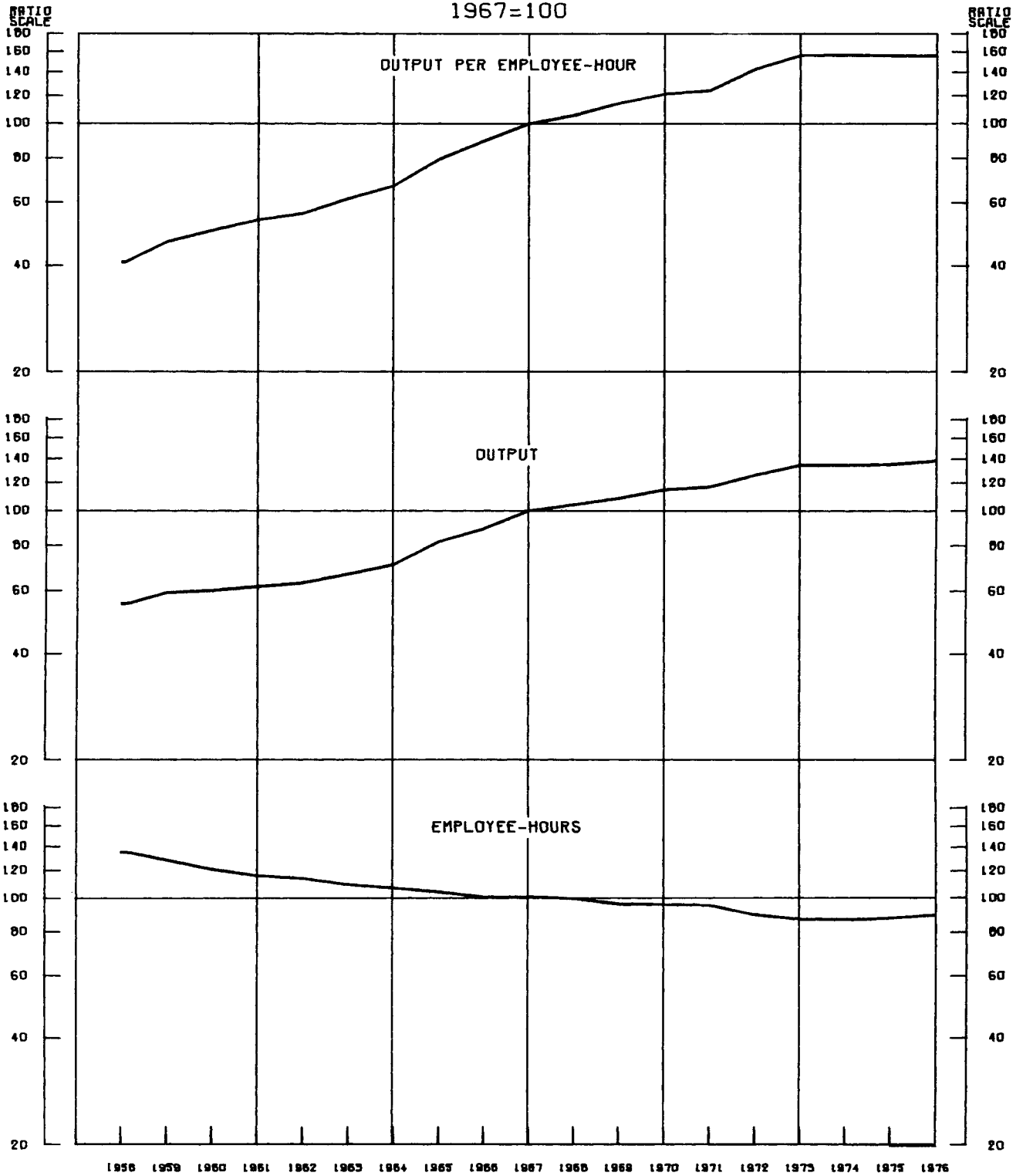
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 103
 AIR TRANSPORTATION (SIC 4511), 1950-76
 OUTPUT PER EMPLOYEE AND RELATED DATA
 1967=100



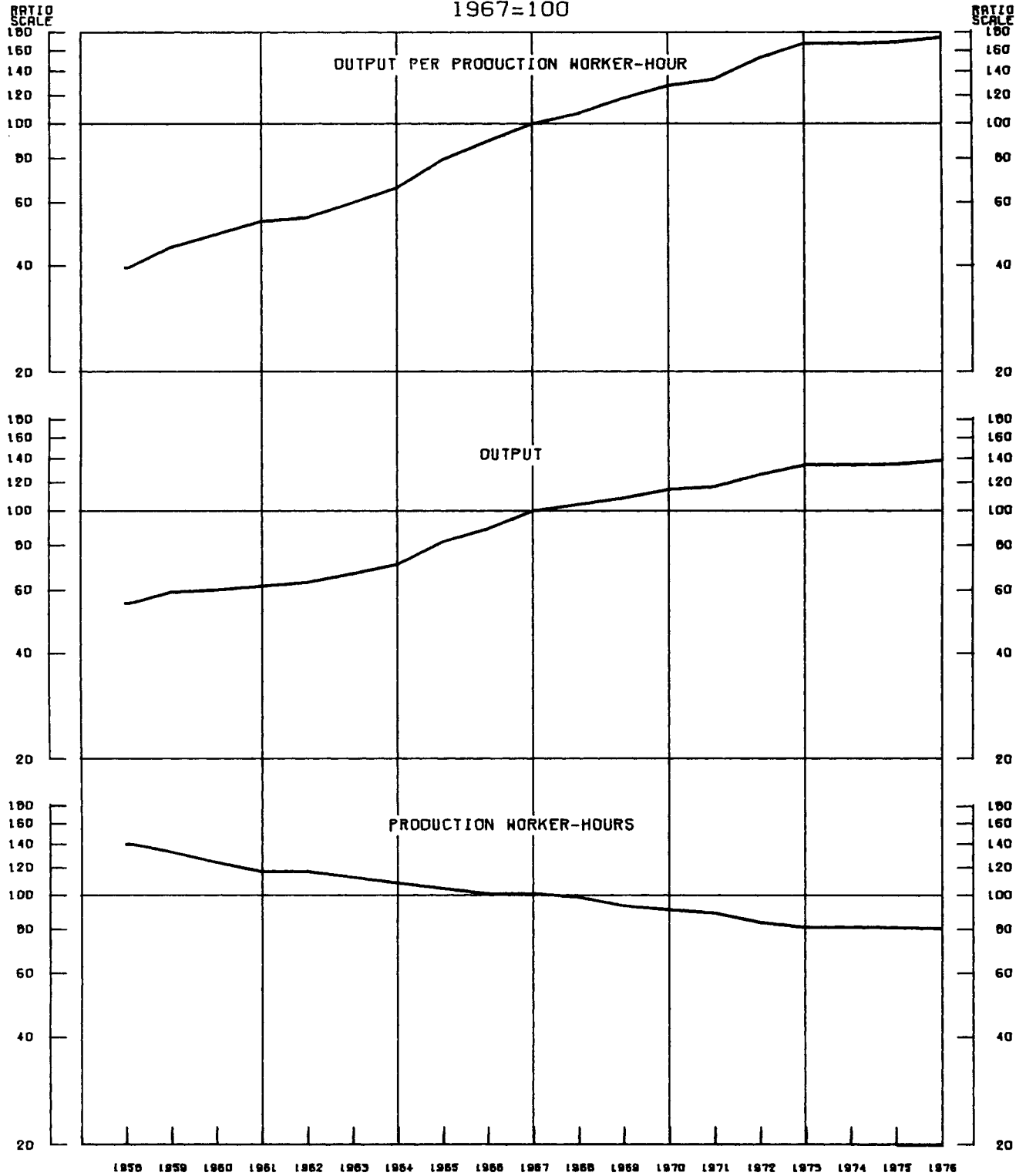
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 104
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



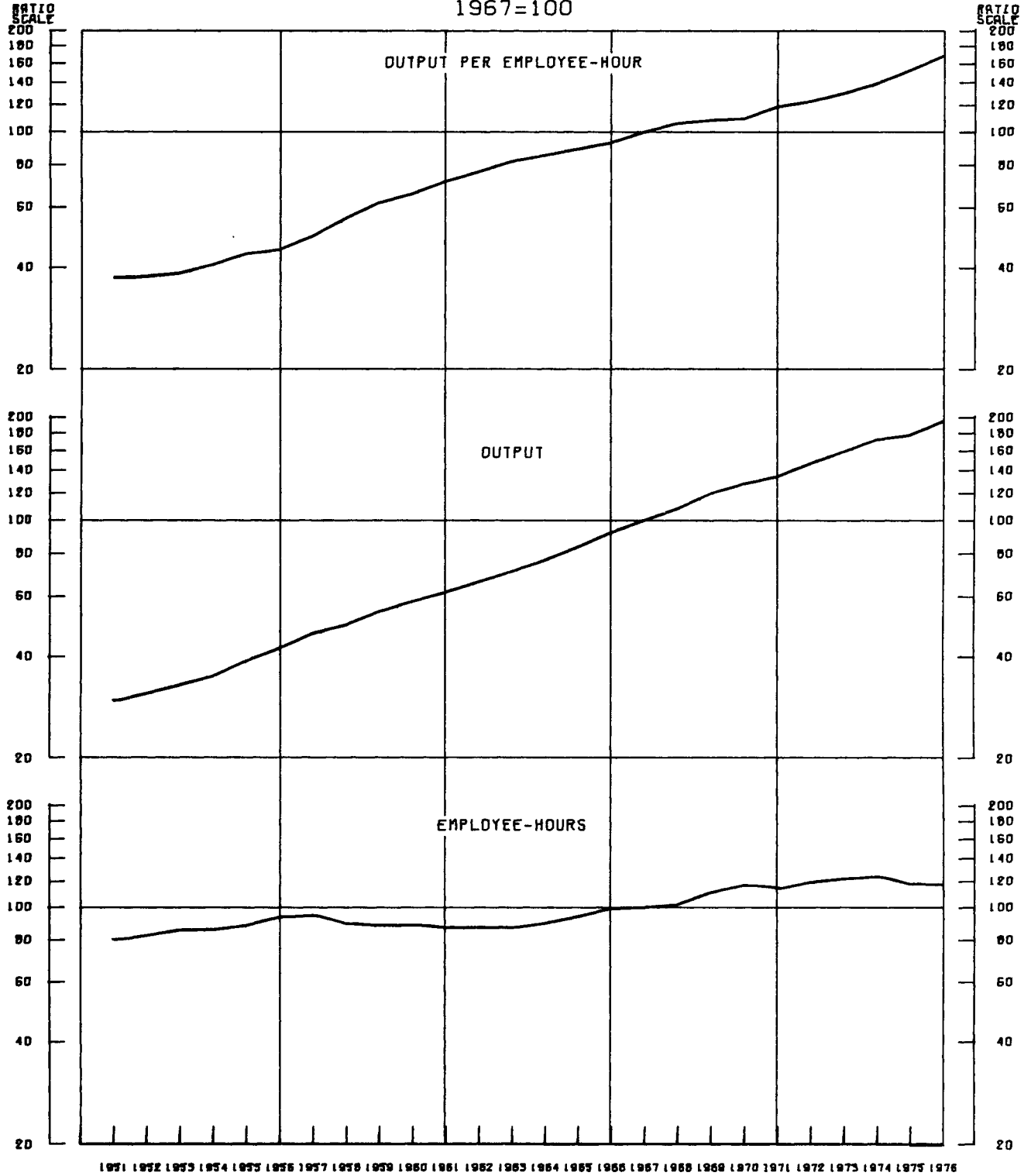
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 105
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



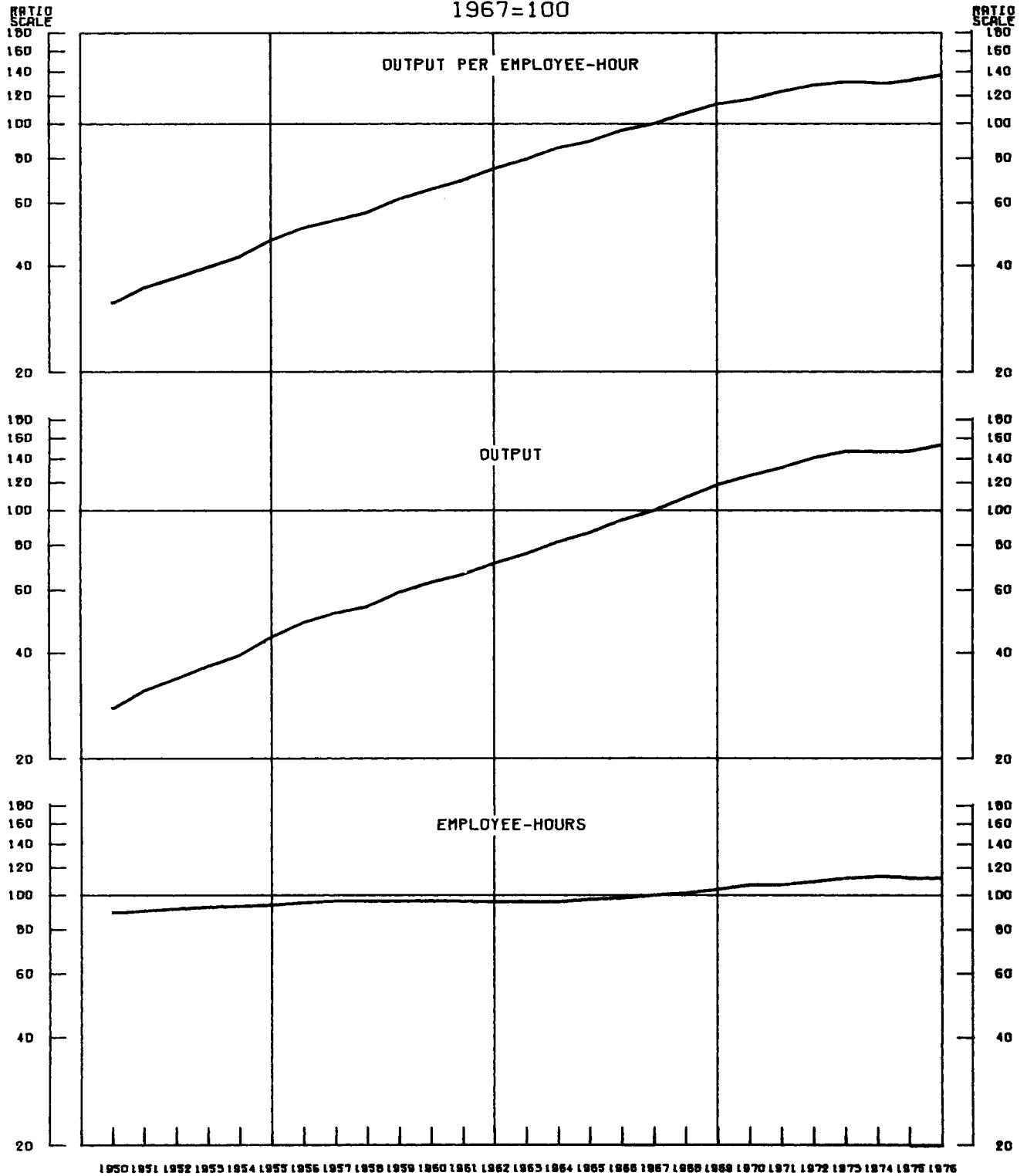
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 106
 TELEPHONE COMMUNICATIONS (SIC 4811). 1951-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



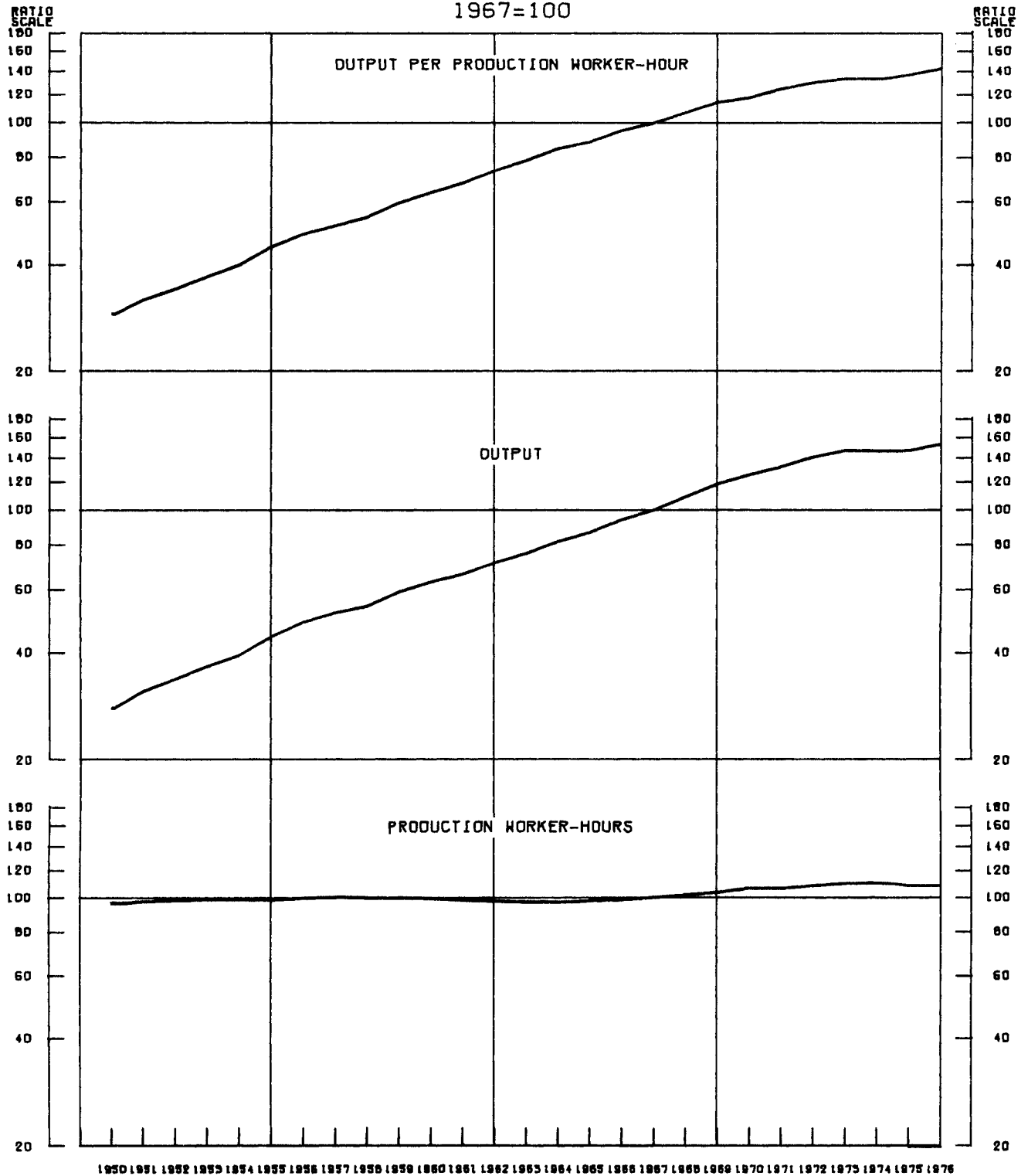
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 107
 GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1950-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



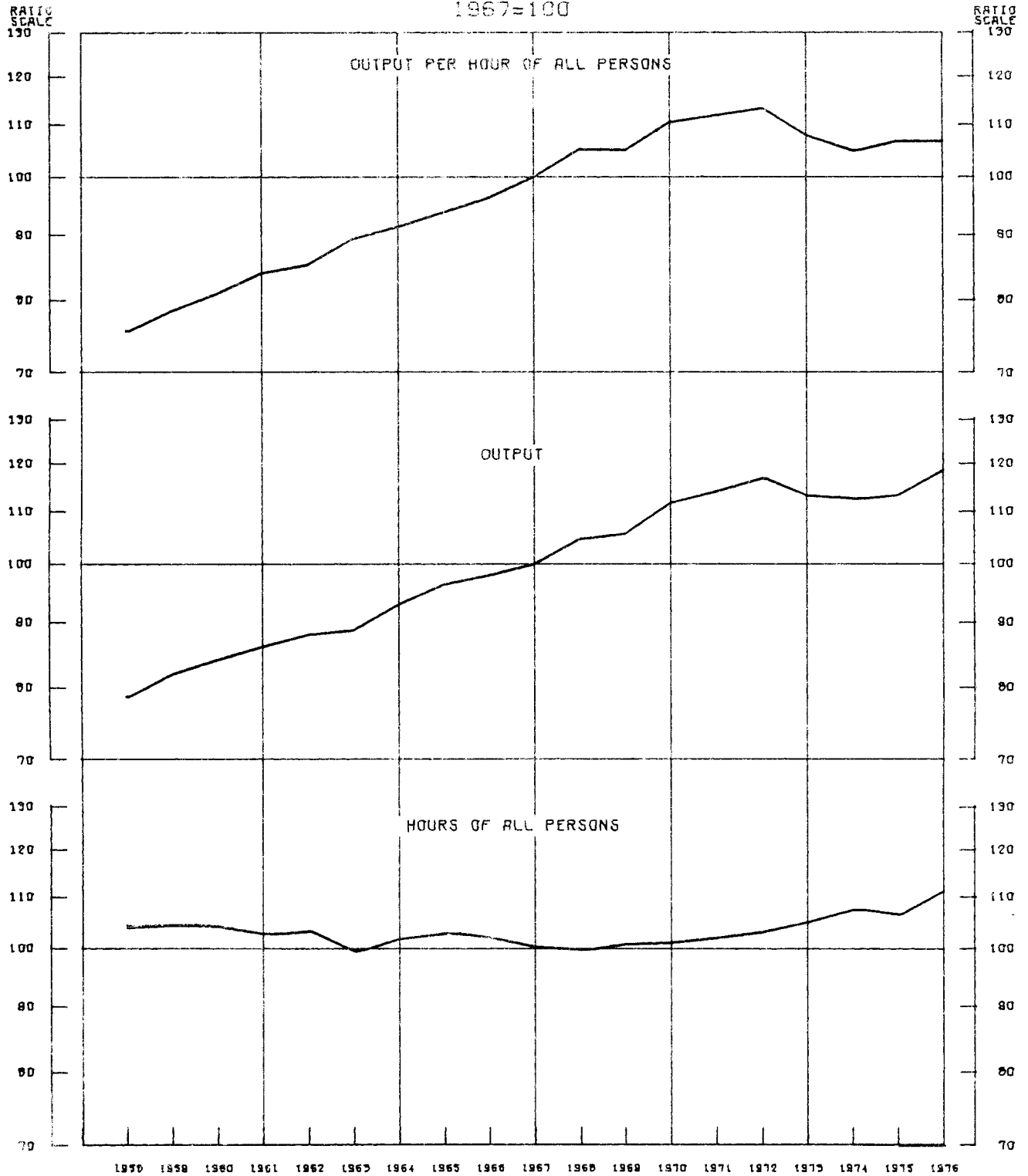
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 108
 GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1950-76
 OUTPUT PER PRODUCTION WORKER-HOUR AND RELATED DATA
 1967=100



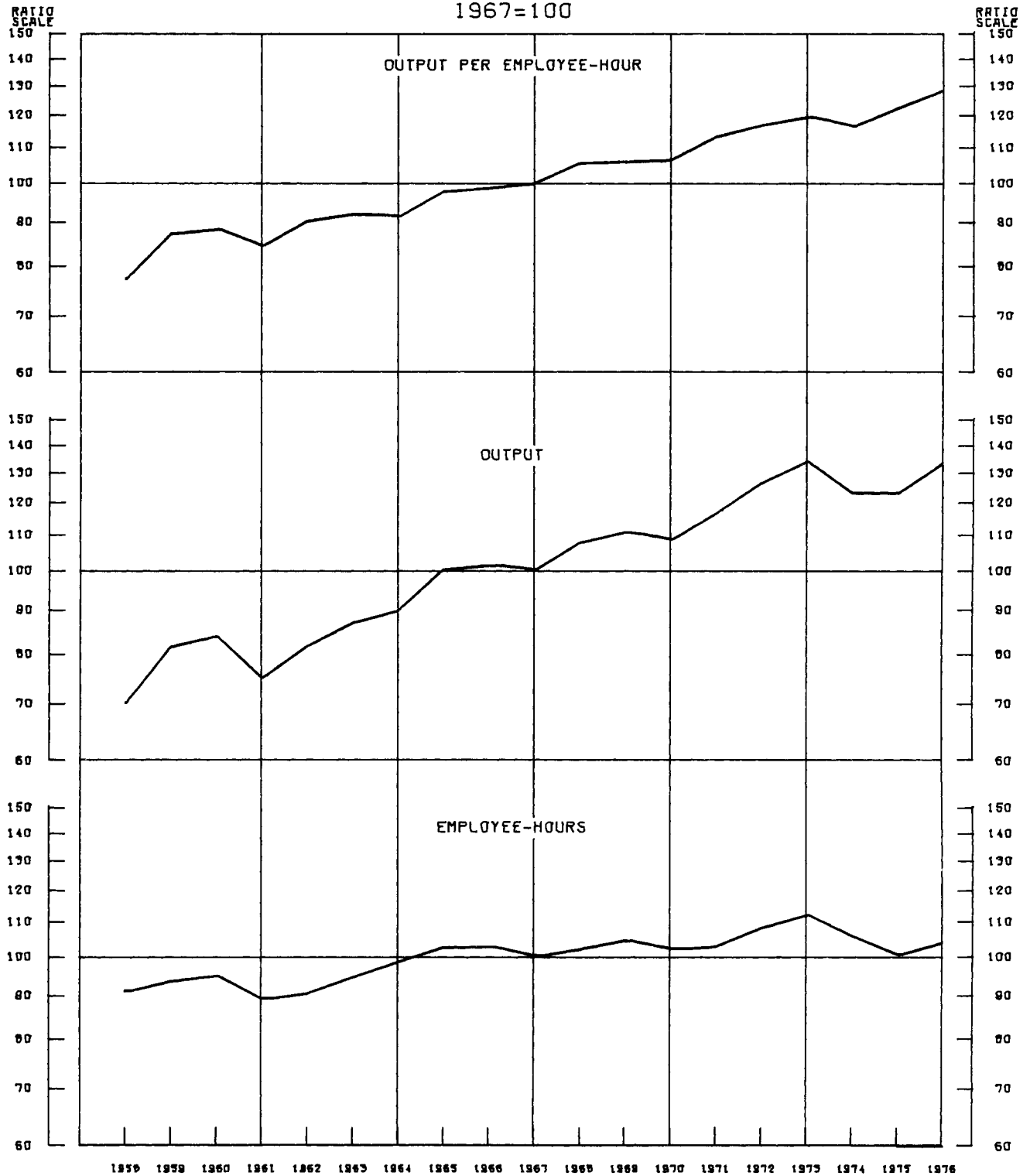
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 109
 RETAIL FOOD STORES (SIC 54), 1958-76
 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), 1958-76
 OUTPUT PER EMPLOYEE-HOUR AND RELATED DATA
 1967=100



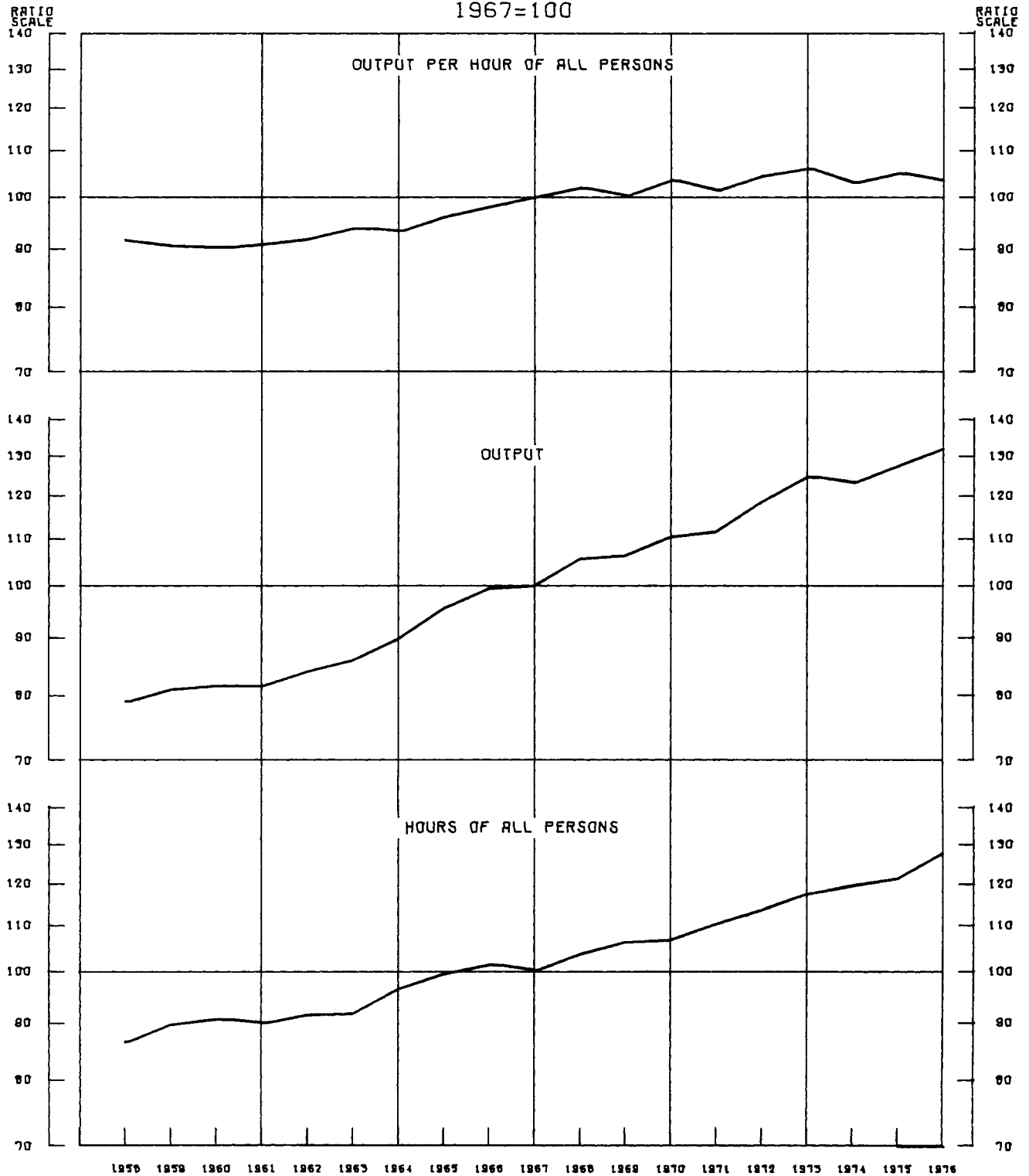
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 111
 GASOLINE SERVICE STATIONS (SIC 5541). 1958-76
 OUTPUT PER HOUR OF ALL PERSONS AND RELATED DATA
 1967=100



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

CHART 112
 EATING AND DRINKING PLACES (SIC 58), 1958-76
 OUTPUT PER HOUR OF ALL PERSONS AND RELATED DATA
 1967=100



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

CHART 113
HOTELS, MOTELS, AND TOURIST COURTS (SIC 7011), 1958-76
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

Publications noted with an asterisk (*) are for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402. Free publications are available as long as the supply lasts from either the Bureau of Labor Statistics, Washington, D. C. 20212, or any of the Bureau's regional offices listed on the inside back cover. For a more comprehensive list of publications, see BLS Publications on Productivity and Technology, BLS Report 461, 1976.

Distribution policies and annual subscription prices for the Monthly Labor Review (\$16 domestic, \$20 foreign, single copy \$1.40) and other Government publications are set by the Government Printing Office, an agency of the U. S. Congress. Send correspondence on Monthly Labor Review subscriptions (including address changes) to: Monthly Labor Review, Box 353, La Plata, Maryland 20646. Make checks payable to Superintendent of Documents.

Productivity trends in individual industries and the Federal Government

- "Productivity and New Technology in Eating and Drinking Places", by Richard B. Carnes and Horst Brand, Monthly Labor Review, September 1977.
- "Productivity in Grain Mill Products: Output Up, Employment Stable," by James A. Urisko, Monthly Labor Review, April 1977, pp. 38-43.
- "Productivity in Sawmills Increases as Labor Input Declines Substantially," by John Duke and Clyde Huffstutler, Monthly Labor Review, April 1977, pp. 33-37.
- "New-Car Dealers Experience Long-Term Gains in Productivity," by John Duke, Monthly Labor Review, March 1977, pp. 29-33.
- "Output Per Unit of Labor Input in the Retail Food Store Industry," by John L. Carey and Phyllis Flohr Otto, Monthly Labor Review, January 1977, pp. 42-47.
- "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.

- "Problems of Measuring Railroad Productivity," by Horst Brand, Monthly Labor Review, October 1974, pp. 26-32.
- "Productivity in the Pharmaceutical Industry," by Horst Brand, Monthly Labor Review, March 1974, pp. 9-14. Reprint 2952.
- "Productivity Trends in Intercity Trucking," by Richard B. Carnes, Monthly Labor Review, January 1974, pp. 53-57. Reprint 2940.
- "Productivity in the Paints and Allied Products Industry," by Arthur S. Herman, Monthly Labor Review, November 1973, pp. 10-13. Reprint 2922.
- "Productivity in Telephone Communications," by Horst Brand, Monthly Labor Review, November 1973, pp. 3-9. Reprint 2921.
- "Productivity in the Steel Foundries Industry," by John L. Carey, Monthly Labor Review, May 1973, pp. 8-11. Reprint 2886.
- "Productivity in the Ready-Mixed Concrete Industry," by Robert S. Robinowitz and Martha Farnsworth Riche, Monthly Labor Review, May 1973, pp. 12-15. Reprint 2887.
- "Productivity in the Metal Cans Industry," by John L. Carey, Monthly Labor Review, July 1972, pp. 28-31. Reprint 2819.
- "Productivity in the Bakery Products Industry," by Clyde E. Huffstutler and Martha Farnsworth Riche, Monthly Labor Review, June 1972, pp. 25-28. Reprint 2812.
- "Productivity in the Petroleum Pipelines Industry," by Carolyn S. Fehd, Monthly Labor Review, April 1971, pp. 46-48.
- "Productivity in the Soft Drinks Industry," by Edwin Adelman and Charles Ardolini, Monthly Labor Review, December 1970, pp. 28-30.
- "Productivity in the Major Household Appliance Industry," by John E. Henneberger and Hazen F. Gale, Monthly Labor Review, September 1970, pp. 39-42. Reprint 2691.
- "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: Private Business Sector, Nonfinancial Corporations (twice-quarterly press release).
- "The Productivity Slowdown and the Outlook to 1985," by R. E. Kutscher, J. A. Mark, and J. R. Norsworthy, Monthly Labor Review, May 1977, pp. 3-8.
- Productivity and the Economy, BLS Bulletin 1926, 1977.*
- Productivity: A Selected, Annotated Bibliography, 1971-75, BLS Bulletin 1933, 1977.*
- "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.
- BLS Publications on Productivity and Technology, BLS Report 461, 1976.*
- "New Sector Definitions for Productivity Series," by J. R. Norsworthy and L. J. Fulco, Monthly Labor Review, October 1976, pp. 40-42.
- "Productivity and Costs in the Private Economy, 1975," by J. R. Norsworthy and L. J. Fulco, Monthly Labor Review, May 1976, pp. 3-11.
- "Productivity and Costs in the Private Economy, 1974," by Jerome A. Mark, Monthly Labor Review, June 1975, pp. 3-8.

The Meaning and Measurement of Productivity, BLS Bulletin 1714, 1971.*
Productivity in the Railroad Industry, BLS Report 377, 1970.*
Productivity Analysis in Manufacturing Plants, BLS Staff Paper 3, 1970.*

Technology studies

Technological Change and its Labor Impact in Five Industries, BLS Bulletin 1961, 1977.*
"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, BLS Bulletin 1774, 1973.*
"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, 1972.*
"New Technology in Laundry and Cleaning Services," by Mary L. Vickery, Monthly Labor Review, February 1972, pp. 54-59. Reprint 2792.
Improving Productivity: Labor and Management Approaches, BLS Bulletin 1715, 1971.*
"Technology and Manpower in Nonelectrical Machinery," by Lloyd T. O'Carroll, Monthly Labor Review, June 1971, pp. 56-62. Reprint 2741.
Outlook for Computer Process Control, BLS Bulletin 1658, 1970.*
"Manpower Implications of Computer Control in Manufacturing," by Arthur S. Herman, Monthly Labor Review, October 1970, pp. 3-8. Reprint 2615.

Construction labor requirements

"Labor and Materials Requirements for Sewer Works Construction," by Robert Ball and Joseph T. Finn, Monthly Labor Review, November 1976, pp. 38-41.
"Decline Noted in Hours Required to erect Federal Office Buildings," by John G. Olsen, Monthly Labor Review, October 1976, pp. 18-22.
"Construction Labor Requirements," reprint of Chapter 33 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1910, 1976, pp. 238-240.
Labor and Material Requirements for Private Multifamily Housing Construction, BLS Bulletin 1892, 1976.*
"Labor and Materials Required for Highway Construction," by Diane S. Finger, Monthly Labor Review, December 1975, pp. 31-36.
"Labor and Material Requirements for Apartment Construction," by Robert Ball, Monthly Labor Review, January 1975, pp. 70-72.
Labor and Material Requirements for Public Housing Construction, BLS Bulletin 1821, 1974.*

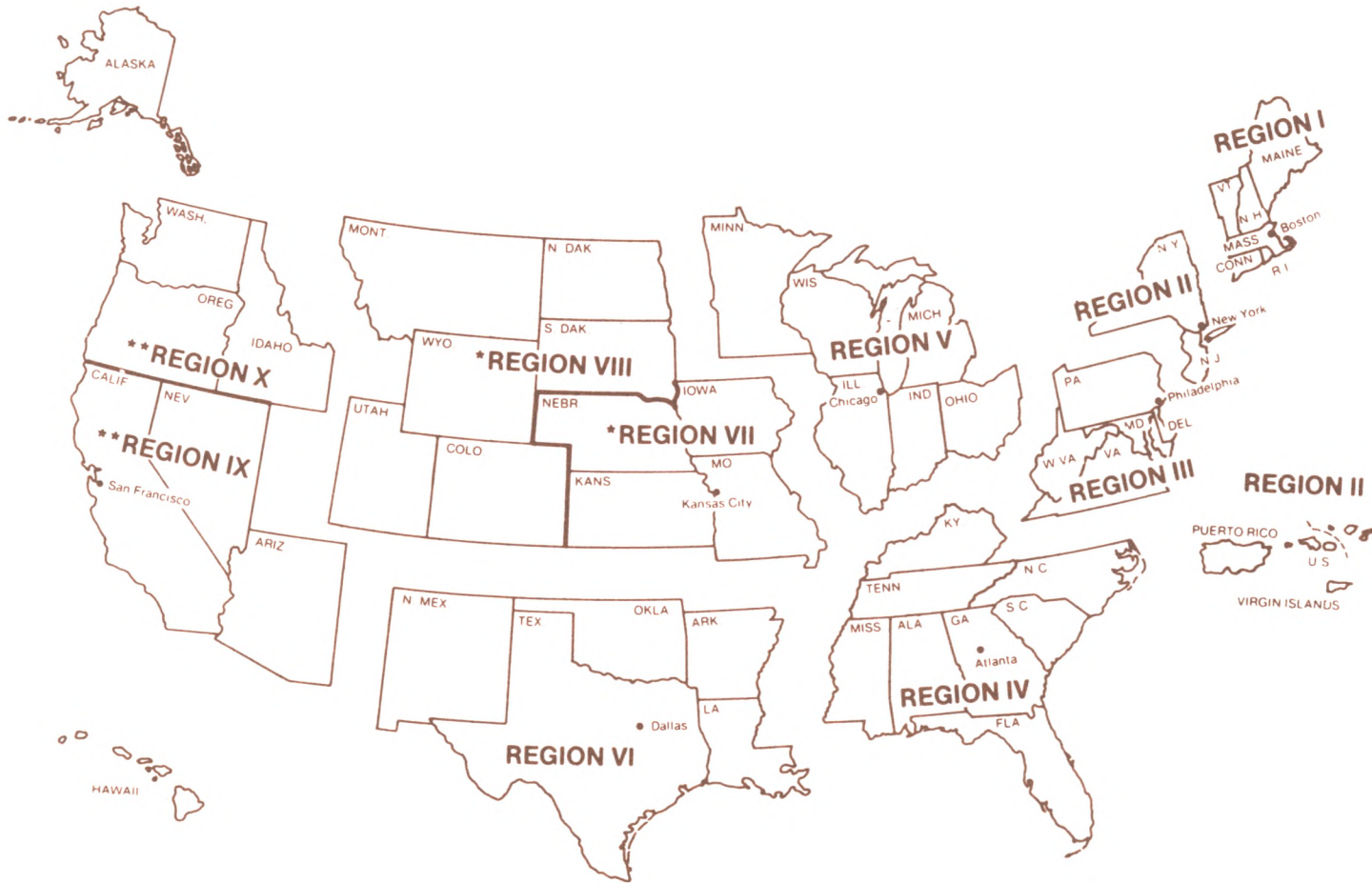
- "Labor and Materials Required for Highway Construction," by Robert Ball, Monthly Labor Review, June 1973, pp. 40-45. Reprint 2895.
- Labor and Material Requirements for Construction of Private Single-Family Houses, BLS Bulletin 1755, 1972.*
- "Labor Requirements for Public Housing," by Joseph T. Finn, Monthly Labor Review, April 1972, pp. 40-42. Reprint 2803.
- Labor and Material Requirements for Hospital and Nursing Home Construction, BLS Bulletin 1691, 1971.*

International comparisons

- Comparative Growth in Manufacturing Productivity and Labor Costs in Selected Industrialized Countries, by Jerome A. Mark, BLS Bulletin 1958, 1977.*
- "Productivity and Unit Labor Costs in 12 Industrial Countries," by Barbara Boner and Arthur Neef, Monthly Labor Review, July 1977, pp. 11-17.
- "An Analysis of Unemployment in Nine Industrial Countries," by Joyanna Moy and Constance Sorrentino, Monthly Labor Review, April 1977, pp. 12-24.
- "International Labor Comparisons," Chapter 9 of the International Economic Report of the President, January 1977, pp. 97-108.
- "Foreign Labor Statistics and Trade Research," reprint of Chapter 34 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1910, 1976, pp. 241-244.
- "Unemployment Compensation in Eight Industrial Nations," by Constance Sorrentino, Monthly Labor Review, July 1976, pp. 18-24.
- 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.

Bureau of Labor Statistics

Regional Offices



Region I
 1603 JFK Federal Building
 Government Center
 Boston, Mass. 02203
 Phone: (617) 223-6761

Region II
 Suite 3400
 1515 Broadway
 New York, N.Y. 10036
 Phone: (212) 399-5405

Region III
 3535 Market Street
 P.O. Box 13309
 Philadelphia, Pa. 19101
 Phone: (215) 596-1154

Region IV
 1371 Peachtree Street, NE.
 Atlanta, Ga. 30309
 Phone: (404) 881-4418

Region V
 9th Floor
 Federal Office Building
 230 S. Dearborn Street
 Chicago, Ill. 60604
 Phone: (312) 353-1880

Region VI
 Second Floor
 555 Griffin Square Building
 Dallas, Tex. 75202
 Phone: (214) 749-3516

Regions VII and VIII*
 911 Walnut Street
 Kansas City, Mo. 64106
 Phone: (816) 374-2481

Regions IX and X**
 450 Golden Gate Avenue
 Box 36017
 San Francisco, Calif. 94102
 Phone: (415) 556-4678

*Regions VII and VIII are serviced
 by Kansas City

**Regions IX and X are serviced
 by San Francisco

U. S. Department of Labor
Bureau of Labor Statistics
Washington, D.C. 20212

Official Business

Penalty for private use, \$300

Postage and Fees Paid
U.S. Department of Labor

Third Class Mail

Lab-441

