

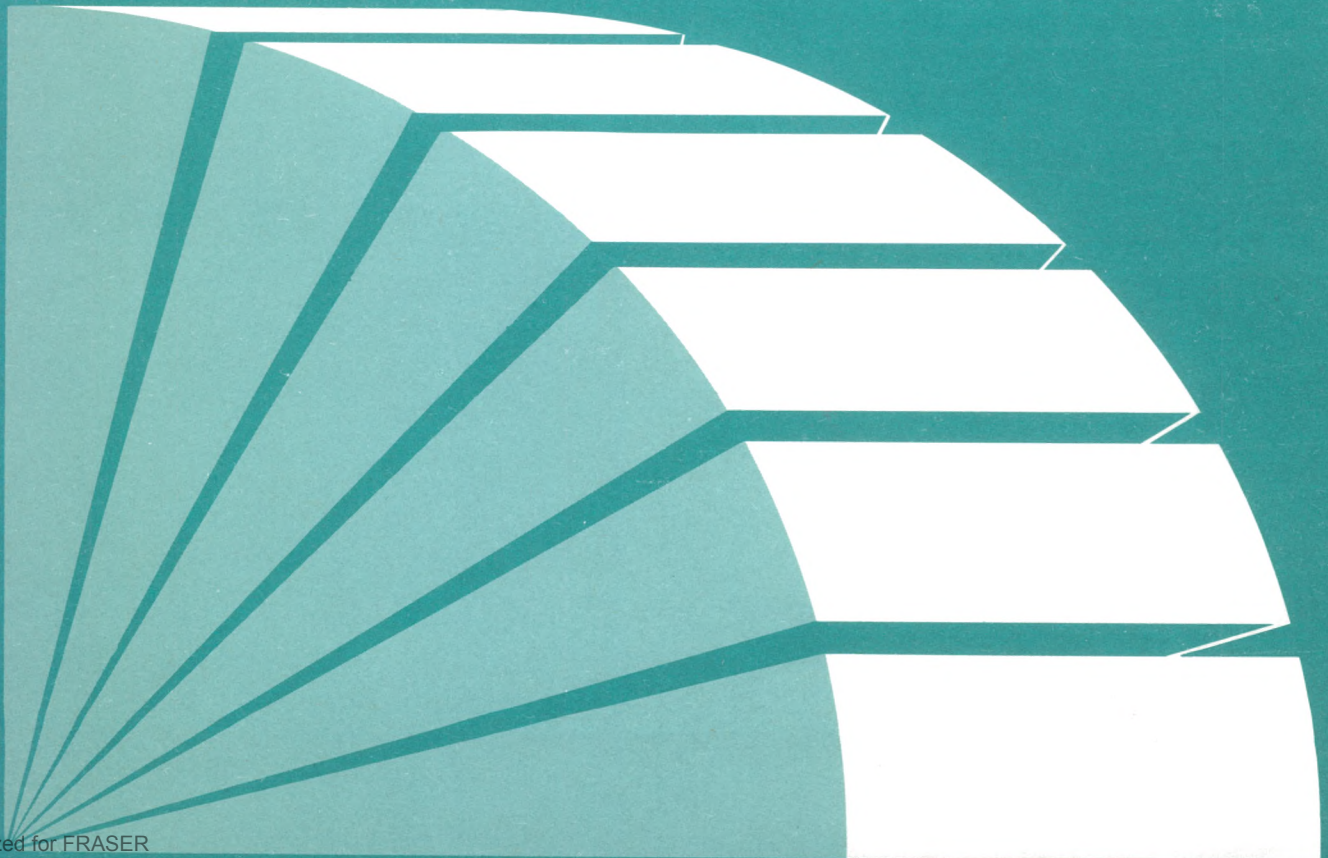
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Productivity Indexes for Selected Industries, 1975 Edition



U.S. Department of Labor
Bureau of Labor Statistics
1976

Bulletin 1890



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U.S. Department of Labor
John T. Dunlop, Secretary
Bureau of Labor Statistics
Julius Shiskin, Commissioner
1976

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Preface

This bulletin is the latest in an annual series which was previously called Indexes of Output per Man-Hour, Selected Industries. The Bureau is discontinuing the use of the term "man-hour" to identify the labor component of productivity. In this bulletin, "employee-hour" is used in its place. However, the underlying concept remains the same. The 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 1974. Indexes for the following industries -- structural clay products; copper rolling and drawing; gasoline service stations; and hotels, motels, and tourist courts -- are added for the first time.

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 employee-hour and related measures for the total private economy and for major sectors of the economy -- nonfarm, manufacturing, and nonfinancial corporations. Those measures show the relationship between gross product originating in the private economy or in its major sectors, and employment and hours. (These data are presented in the Bureau of Labor Statistics Productivity and Costs in the Private Economy (quarterly), in Productivity and Costs in Nonfinancial Corporations (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; in capital investment per worker; in the level of output; in utilization of capacity; in layout and flow of material; in managerial skill, and in skills and effort of the work force.

This bulletin was prepared in the Bureau's Office of Productivity and Technology by Edwin Adelman, Susan Armore, Michael Broad, Richard Carnes, John Duke, John Ferris, Brian Friedman, Catherine Gilbert, John Henneberger, Clyde Huffstutler, Barbara Koch, Phyllis Otto, Elmer Persigehl, Mary Robinson, James Urisko, and Patricia Wilder, under the direction of Charles Ardolini, Horst Brand, John Carey, and Arthur Herman.

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Highlights of Trends in Output Per Employee-Hour

Current developments

Productivity declined between 1973 and 1974 in two-thirds of the selected industries presented in this report. Declines were as great as 11.4 percent for the copper rolling and drawing industry. Other copper-based industries had correspondingly large declines, with primary copper, lead, and zinc falling 11.2 percent, and copper mining (recoverable metal) dropping 8.2 percent. Productivity gains were recorded in only 14 industries in 1974 as compared to 34 in 1973. The falloff in output per employee-hour in most industries can be attributed to the economic downturn in 1974, and is in line with the situation in the total private sector of the economy, which recorded a productivity decline of 2.6 percent.

The motor vehicles industry had a particularly bad year in 1974. Productivity declined 4.4 percent, the largest drop for this industry since the measure was begun in 1957. Output of automobiles fell almost 25 percent from 1973, as demand was poor throughout the year. Production of replacement parts, and trucks and buses declined at a much lower rate, and production of truck trailers actually increased at a high rate, resulting in an overall drop in output of 16.0 percent. Employee-hours also had a large decline of 12.2 percent, as layoffs of production and nonproduction workers were widespread in the industry.

The steel industry posted a small decline in productivity of 0.4 percent in 1974. Output was down only slightly from the industry's record production in 1973. Demand was high in such markets as petroleum pipelines and production; other energy related industries such as coal mining; machine tools; and shipbuilding in 1974. On the other hand, demand was poor in such markets as motor vehicles, appliances, and residential and commercial construction. Steel output actually grew during the first half of the year, but fell off sharply in the second half, due to the impact of industry maintenance shutdowns and a strike in the coal mining industry. Overall, output declined 0.1 percent for the year while employee-hours grew 0.3 percent.

Another significant industry registering a decline in productivity was petroleum refining. Productivity fell 5.5 percent, due to a decrease in output of 1.8 percent and an increase in employee-hours of 3.9 percent. This was only the second decline in productivity for this industry in the past 27 years. The demand for petroleum products fell in 1974 as a result of the recession, sharply increased prices, and fuel conservation measures. At the same time, the industry was

increasing its refining capacity, requiring additional employee-hours. In another energy-related industry, coal mining, productivity dropped 2.0 percent. This was the sixth consecutive decline for this industry, beginning in 1969. Output grew only 1.4 percent in 1974, while production worker hours increased at the higher rate of 3.5 percent. The widespread strike in this industry in the latter part of 1974 cut sharply into coal output.

The radio and television set industry had a very poor year in 1974, with productivity falling 9.3 percent, the steepest decline since the measure was begun in 1958. Output dropped 17.3 percent and employee-hours fell 8.8 percent. Declines were recorded also in the household appliance, hydraulic cement, and structural clay industries. Productivity fell 5.4, 10.5, and 3.4 percent, respectively, as these industries registered sharp drops in output due to the falloff in home building and construction activity. Among other important industries with productivity declines were gas and electric utilities, 1.7 percent; hotels and motels, 1.4; paper manufacturing, 1.1; railroads, 0.3; and gasoline stations, 0.2.

Despite the generally poor year overall, a number of industries had significant gains in productivity in 1974. In paint manufacturing, output per employee-hour increased 8.1 percent. Output in this industry increased by 5.3 percent as the industry filled back orders stemming from the 1973 shortages of petroleum-based materials. The malt liquor industry had a gain of 9.4 percent, based on an increase in output of 5.5 percent and a decline in employee-hours of 3.5 percent. In telephone communications, productivity advanced 7.1 percent as output increased 8.6 percent, possibly due in part to rising travel costs diverting communications to telephones. Other industries with large gains were hosiery, with 6.3 percent; metal cans, with 5.9 percent; and pharmaceuticals, with 5.7 percent.

More modest productivity gains were posted in 1974 by a number of significant industries. Air transportation advanced by 1.3 percent as a result of an output rise of only 0.3 percent and a drop in employment of 1.0 percent. Tire manufacturing productivity increased by 2.6 percent, based on a gain in output of 3.1 percent and an increase in employee-hours of 0.5 percent. Production of truck and agricultural tires more than offset a decline in passenger car tires in this industry. Productivity in steel foundries grew by 0.1 percent. Output in this industry had a large increase of 10.3 percent, due in part to a gain in the manufacture of parts for the petroleum production and pipelines industries, while employee-hours grew by 10.2 percent. In the bakery products industry, productivity increased by 1.6 percent. Although output decreased 3.9 percent in this industry, employee-hours fell by 5.4 percent, resulting in the productivity advance.

Over the short term, changes in productivity are closely associated with changes in output. In 1974, two-thirds of the selected industries in this study recorded declines in output and more than 85 percent of these had declines in productivity also. The employment situation was poor, with only half the industries posting gains in 1974, compared with three-quarters in 1973. By contrast, some of the industries had very large employment declines in 1974. Some examples, along with their rates of decline, include hosiery, 9.9 percent; gasoline service stations, 9.2 percent; motor vehicles, 6.7 percent; radio and television sets, 6.3 percent; and footwear, 5.8 percent.

Long term trends

All the industries for which data are available have had gains in productivity over the 24-year period, 1950-74. The increases ranged from a high of 6.9 percent in air transportation to a low of 1.0 percent for footwear manufacturing. (See table 1.) In the more recent period, 1969-74, productivity rates ranged from a high of 10.4 percent for synthetic fibers to a low of -4.6 percent for bituminous coal and lignite mining. (See chart 1.)

More than half the industries had lower growth rates in the 1969-74 period than in the earlier period (1950-69 for most industries). The slowdown in productivity growth for the majority of the selected industries is consistent with the experience in the total private sector of the economy, where productivity grew at the rate of 3.0 percent from 1950-69 and 2.1 percent from 1969-74. A number of mining industries recorded actual declining rates during the 1969-74 period. The coal mining industry had a large decline, averaging 4.5 percent per year. Output in this industry grew at a low rate of 0.2 percent, while production worker hours grew at the higher rate of 4.9 percent during the 1969-74 period. Among the factors affecting productivity in this industry were a number of strikes and the impact of the Federal Coal Mine Health and Safety Act of 1969, which required more rigorous safety practices in coal mining operations. In copper mining (recoverable metal), productivity fell at a rate of 2.6 percent from 1969-74, based on a low rate of growth in output of 1.0 percent and a larger rate of gain in production worker hours of 3.6 percent. In iron mining (usable ore), productivity fell at an average rate of 1.0 percent, as output declined at a rate of 1.2 percent, while production worker hours fell at the lower rate of 0.2 percent.

A few industries had rates that were significantly higher in the 1969-74 period than the previous period. One of the most notable was the steel industry which posted a rate of 4.4 percent during 1969-74, compared to only 1.8 percent in 1950-69. Output in this industry grew at a rate of 3.6 percent in the 1969-74 period, well above the industry's long term average gain of 1.2 percent during 1950-69. The expansion in demand for steel products in the more current period allowed the industry to utilize more fully its recently installed

advanced production equipment, which includes basic oxygen furnaces, continuous casting units, and high speed rolling mills, leading to above-average productivity gains. (For a graphic presentation of the long term trends in output per employee-hour and related data for the selected industries, see charts 2-94.)

New measures

SIC 325 - Structural Clay Products. Output per employee-hour in the structural clay products industry increased at an average annual rate of 3.3 percent between 1958 and 1974. In 1974, however, productivity fell 3.4 percent. The long term improvement in labor productivity resulted from relatively small increases in output associated with significant declines in employee-hours, and can be attributed to the mechanization of operations previously performed manually.

The clay products industry can be divided into two sectors using similar production methods, but serving separate markets. The larger sector, clay construction products, consists of products such as bath and floor tile, brick, and drain and sewer pipe. The smaller, clay refractory products, consists of heat resistant materials used by industries such as steel, chemicals, and petroleum refining. Output trends for the two sectors differ. Output of clay construction products remained relatively stable over the 1958-74 period, growing at a rate of only 0.1 percent. On the other hand, output of clay refractories grew at a rate of 3.0 percent over the period. Productivity rates for both sectors were similar, however. In clay construction products, productivity grew at a rate of 3.3 percent in 1958-74 as employee-hours dropped at the high rate of 3.1 percent. In the clay refractories sector, productivity grew at a rate of 3.1 percent as employee-hours declined at a rate of only 0.1 percent.

Technological changes in this industry involve improved mechanization and automated control. In clay refractories, automatic equipment is being used for blending raw materials, and improved extrusion techniques are aiding productivity growth. Mechanized transfer equipment has speeded up the manufacture of bricks. Tunnel kilns allow for continuous processing of clay products on an assembly line basis.

Opportunities for continued productivity improvements through new technology may be impeded by the existence of uncertain product markets. Moreover, the structure of the brick industry -- many small producers primarily serving local markets -- tends to retard the diffusion of improved technology.

SIC 3351 - Copper Rolling and Drawing. Output per employee-hour in the industry rose at an average annual rate of 2.6 percent between 1958 and 1974, with output increasing at the rate of 2.4 percent and employee-hours declining at the rate of 0.2 percent. Productivity declined 11.4 percent during 1973-74 due to an output drop of 15.8 percent, while employee-hours fell only 4.9 percent.

Productivity growth in the industry has been achieved largely through a gradual change to longer production runs and more automatic equipment. Semi-continuous and continuous casting have replaced static casting as the most prevalent method of producing rod and billet. However, a significant proportion of the industry's products is made to customer specifications; therefore, many mills must continue the job approach to manufacturing, limiting their ability to gain the benefits of long production runs.

Because this industry makes intermediate products that are utilized by many other industries such as autos and construction, changes in the business cycle have had an important impact on output and productivity. In addition, the use of brass in ammunition manufacture means that shipments to the Armed Forces have risen dramatically in times of conflict.

For the immediate future, the outlook for the industry is poor. The current recession, with its significant downturns in autos and housing, has been having deleterious effects on copper mills. Output is expected to continue its sharp decline in 1975. This will tend to slow productivity growth in the industry.

SIC 554 - Gasoline Service Stations. Output per hour of all persons grew at the average annual rate of 3.7 percent between 1958 and 1974, due to an average increase in output of 4.3 percent and a gain in hours of 0.5 percent. The more recent period, 1969-73, showed a more pronounced productivity increase of 4.4 percent, as output increased steadily while the number of stations within the industry was reduced. However, the petroleum shortage in early 1974, coupled with the recession, resulted in the first productivity decline since 1958.

There were many factors behind the productivity growth over the 1958-74 period, including an increase in the number of stations at high volume locations, such as along superhighways, a decline in the number of small marginal stations, an increase in sales by independent dealers, and growth in self-service gasoline stations, as well as numerous small technological innovations and improved management. These factors coalesced into a trend toward higher volume, more specialized stations.

The petroleum embargo in 1973-74 and sharp price increases have created a state of uncertainty in the industry. Depending on political or economic considerations, gasoline may possibly be in short supply in the future. Continued price increases and the trend toward more fuel-efficient cars may alter demand patterns. The effect of these changes on future productivity trends is difficult to predict and remains uncertain.

SIC 7011 - Hotels, Motels, and Tourist Courts. Output per hour of all persons in the transient lodging industry increased at an average annual rate of 2.5 percent between 1958 and 1974, based on an average annual increase in output of 3.8 percent, and a gain of 1.2 percent in hours. Between 1973-74, output actually fell 0.7 percent, while hours grew by a like amount. Thus, as in past recessionary periods, decreased demand resulted in a productivity decline, in this case, 1.4 percent.

The long term advance in productivity in this industry has reflected strong demand, especially in periods of general economic expansion. The growth of disposable income, increased leisure and vacation time, more holidays, and a shorter workweek have contributed to the demand for transient lodging. A significant demand factor has been the business and convention market which has increased more than twofold since 1963. Organizational changes and technological developments, such as operating economies available to chains, the introduction of computer processing, and the use of convenience foods have contributed to productivity gains.

Continued advances in productivity are expected, but at a reduced rate compared with those of the sixties. Periods of recession in the total economy adversely affect the lodging industry. Industry growth is highly dependent on rising disposable income and expenditures for business travel. Thus, the current slump has limited both output and productivity gains. In the long run, higher transportation costs and possible fuel conservation measures may restrict travel, presenting the industry with significantly slower output growth.

TABLE 1. SELECTED INDUSTRIES: SIC CODES, 1974 EMPLOYMENT, AND AVERAGE ANNUAL RATES OF CHANGE IN OUTPUT PER EMPLOYEE-HOUR, 1950-74 AND 1969-74

SIC CODE	Industry title	1974 employment (thousands) ¹			Output per employee-hour: Average annual rate of change (percent) ²					
		All employees	Production workers	Non-production workers	1950-74			1969-74		
					All employees	Production workers	Non-production workers ³	All employees	Production workers	Non-production workers ³
<u>Mining</u>										
1011	Iron mining, crude ore -----	24	20	5	(*)	5.4	(*)	(*)	1.2	(*)
1011	Iron mining, usable ore -----	24	20	5	(*)	2.2	(*)	(*)	-1.0	(*)
1021	Copper mining, crude ore -----	42	33	9	(*)	4.5	(*)	(*)	0.8	(*)
1021	Copper mining, recoverable metal-----	42	33	9	(*)	2.5	(*)	(*)	-2.6	(*)
111, 121	Coal mining -----	176	150	26	(*)	4.4	(*)	(*)	-4.5	(*)
121	Bituminous coal and lignite mining-----	173	147	26	(*)	4.5	(*)	(*)	-4.6	(*)
<u>Manufacturing</u>										
203	Canning and preserving-----	248	206	42	⁵ 2.8	⁵ 2.9	⁵ (2.4)	⁶ 4.1	⁶ 4.7	⁶ (0.6)
2041	Flour and other grain mill products-----	26	19	8	4.0	4.1	(3.9)	1.3	1.0	(2.5)
205	Bakery products-----	243	139	104	2.5	2.7	(2.2)	2.3	2.5	(2.0)
2061, 2062, 2063	Sugar-----	35	27	8	4.0	4.1	(3.5)	1.4	1.5	(1.4)
2065	Candy and other confectionery products-----	58	46	12	3.8	3.7	(3.8)	7.1	7.5	(-0.1)
2082	Malt liquors-----	51	34	17	5.7	5.5	(5.9)	8.0	7.3	(9.7)
2086	Bottled and canned soft drinks-----	129	48	81	⁷ 2.0	⁷ 2.6	⁷ (1.5)	3.4	4.4	(2.8)
2111, 2121, 2131	Tobacco products--total-----	64	53	11	2.9	3.2	(0.7)	1.1	1.5	(-2.0)
2111, 2131	Cigarettes, chewing and smoking tobacco--	50	41	9	1.3	1.6	(-0.4)	1.1	1.6	(-2.2)
2121	Cigars-----	14	12	2	5.3	5.5	(3.3)	1.3	1.2	(2.0)
2251, 2252	Hosiery-----	72	64	8	6.0	6.1	(4.3)	7.2	7.8	(2.0)
2611, 2621, 2631, 2661	Paper, paperboard and pulp mills-----	277	217	60	4.0	4.3	(2.3)	4.7	5.0	(3.3)
2653	Corrugated and solid fiber boxes-----	107	79	28	⁷ 3.6	⁷ 3.8	⁷ (3.0)	4.4	4.9	(2.9)
2823, 2824	Synthetic fibers-----	120	88	33	⁸ 6.0	⁸ 5.8	⁸ (6.6)	10.4	9.8	(12.4)
2834	Pharmaceutical preparations-----	131	63	68	(*)	(*)	(*)	4.7	6.7	(*)
2851	Paints and allied products-----	70	39	32	⁷ 2.7	⁷ 2.8	⁷ (2.5)	2.0	2.2	(1.8)
2911	Petroleum refining-----	155	94	61	5.5	5.9	(4.5)	4.8	4.5	(5.4)
3011	Tires and inner tubes-----	130	94	36	4.0	4.3	(3.0)	3.1	3.1	(3.2)
314	Footwear-----	178	154	24	1.0	1.1	(0.5)	0.2	0.6	(-2.5)
3221	Glass containers-----	73	64	9	1.9	2.0	(1.1)	1.7	1.8	(0.8)
3241	Hydraulic cement-----	33	26	7	4.3	4.7	(2.0)	1.8	1.7	(2.0)
325	Structural clay products-----	57	47	10	⁷ 3.3	⁷ 3.6	⁷ (1.4)	3.7	3.2	(6.0)
3251, 3253, 3259	Clay construction products-----	45	38	8	⁷ 3.3	⁷ 3.6	⁷ (2.0)	3.7	3.5	(5.0)
3255	Clay refractories-----	12	9	2	⁷ 3.1	⁷ 3.9	⁷ (0.1)	3.0	1.7	(8.2)
3271, 3272	Concrete products-----	94	71	23	⁵ 3.0	⁵ 3.2	⁵ (2.0)	⁶ 2.3	⁶ 2.8	⁶ (0.5)
3273	Ready-mixed concrete-----	86	(*)	(*)	⁹ 2.0	(*)	(*)	⁶ 2.9	(*)	(*)
331	Steel-----	609	487	122	1.8	2.2	(0.1)	4.4	4.2	(5.2)
3321	Gray iron foundries-----	156	133	24	¹⁰ 2.3	¹⁰ 2.4	¹⁰ (1.6)	3.1	3.2	(2.1)
3324, 3325	Steel foundries-----	66	54	12	¹⁰ 1.4	¹⁰ 1.5	¹⁰ (0.7)	2.6	2.6	(2.5)
3331, 3332, 3333	Primary copper, lead, and zinc-----	27	22	5	2.1	2.2	(1.1)	2.4	3.2	(-1.4)
3334	Primary aluminum-----	34	28	6	4.2	4.4	(3.2)	1.6	1.6	(1.7)
3351	Copper rolling and drawing-----	41	31	10	⁷ 2.6	⁷ 2.7	⁷ (2.2)	0.8	0.8	(0.7)
3353, 3354, 3355	Aluminum rolling and drawing-----	71	52	19	⁷ 5.6	⁷ 5.7	⁷ (5.1)	8.8	8.5	(10.3)
3411	Metal cans-----	69	60	9	⁷ 2.2	⁷ 2.2	⁷ (2.2)	1.6	1.4	(3.3)
3631, 2, 3, 9	Major household appliances-----	98	78	20	⁷ 5.2	⁷ 5.0	⁷ (6.2)	4.9	4.9	(5.0)
3651	Radio and television receiving sets-----	86	69	18	⁷ 4.5	⁷ 4.5	⁷ (4.3)	4.0	3.7	(5.1)
371	Motor vehicles and equipment-----	891	682	208	⁸ 3.7	⁸ 3.6	⁸ (3.8)	3.8	3.7	(4.1)
<u>Other</u>										
401, Class I	Railroads, revenue traffic-----	553	487	66	5.3	5.5	3.4	4.5	4.5	3.8
401, Class I	Railroads, car-miles-----	553	487	66	3.7	3.9	1.8	2.4	2.5	1.8
4213 PT.	Intercity trucking-----	692	(*)	(*)	^{11,12} 2.7	(*)	(*)	^{6,11} 3.8	(*)	(*)
4213 PT.	Intercity trucking, general freight-----	454	(*)	(*)	^{11,12} 2.2	(*)	(*)	^{6,11} 3.8	(*)	(*)
4511	Air transportation-----	303	(*)	(*)	¹¹ 6.9	(*)	(*)	¹¹ 5.0	(*)	(*)
4612, 4613	Petroleum pipelines-----	16	13	4	⁹ 9.4	⁹ 10.2	(*)	⁶ 8.2	⁶ 9.3	(*)
4811	Telephone communications-----	992	(*)	(*)	¹³ 6.3	(*)	(*)	5.3	(*)	(*)
491, 492, 493	Gas and electric utilities-----	680	¹⁴ 571	¹⁵ 109	6.4	¹⁴ 6.8	(*)	2.9	¹⁴ 3.3	(*)
5541	Gasoline service stations-----	582	520	63	^{7,16} 3.7	(*)	(*)	¹⁶ 3.6	(*)	(*)
7011	Hotels, motels, and tourist courts-----	792	735	56	^{7,16} 2.5	(*)	(*)	¹⁶ 2.9	(*)	(*)

¹ Because of rounding, the sum of production workers and nonproduction workers may not always equal all employees.

² Based on the linear least squares trends of the logarithms of the index numbers.

³ Rates of change for nonproduction workers (in parentheses) are subject to a wider margin of error than other rates shown.

⁴ Not available.

⁵ Average annual rate of change is for 1950-73.

⁶ Average annual rate of change is for 1969-73.

⁷ Average annual rate of change is for 1958-74.

⁸ Average annual rate of change is for 1957-74.

⁹ Average annual rate of change is for 1958-73.

¹⁰ Average annual rate of change is for 1954-74.

¹¹ Output per employee.

¹² Average annual rate of change is for 1954-73.

¹³ Average annual rate of change is for 1951-74.

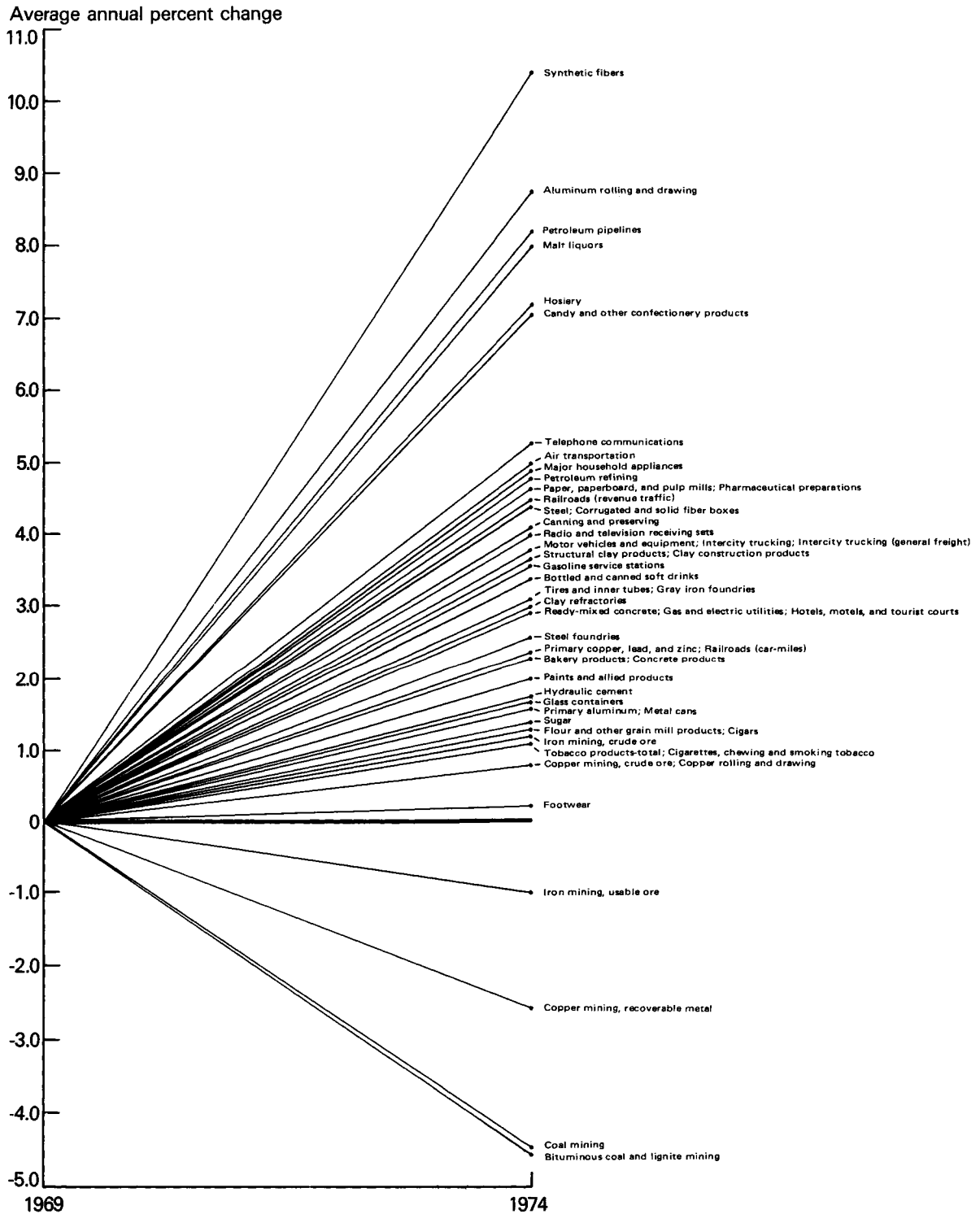
¹⁴ Nonsupervisory personnel.

¹⁵ Supervisory personnel and force account construction workers.

¹⁶ Output per hour of all persons.

Chart 1.

Growth in Output per Employee-Hour in Selected Industries, 1969-74



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, 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 1972-74, 1972 weights. For three industries -- railroads, iron mining and copper mining -- two alternative productivity measures, using different concepts of industry output, are presented.

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

Employment and employee-hour indexes are developed primarily from basic data compiled by the Bureau of Labor Statistics 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 the Bureau of Labor Statistics 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

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

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 the Bureau of Labor Statistics 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. The procedures used for making these estimates have been changed in order to incorporate data that are conceptually more valid than previous estimates. This edition of Selected Industries, therefore, presents revised employee and nonproduction worker hour indexes for the manufacturing industries for 1968-74. Prior to 1968, the estimates of average annual hours paid were calculated by multiplying the number of workweeks in the year by the scheduled weekly hours. Estimated hours for vacations, holidays, disability, and personal time off were subtracted from average annual hours paid to obtain an estimate of average annual hours worked. Vacation and holiday trends were based on studies by the U.S. Department of Health, Education, and Welfare, and on data from the Bureau of Labor Statistics 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 directly based on data collected in the Bureau of Labor Statistics biennial surveys of Employee Compensation in the Private Nonfarm Economy.

For two "service" industries -- gasoline service stations and hotels, motels, and tourist courts -- measures of the hours of partners, proprietors, and supervisory (nonproduction) workers were developed. For gasoline service stations, 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

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

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 1974 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 ICC as the primary source of employment and employee-hours, the 1974 indexes were developed by linking employment and employee-hour data from the Bureau of Labor Statistics, since 1974 census data are not yet available. Therefore, all 1974 output per employee-hour measures are considered preliminary and are subject to revision.

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

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

More detailed information on the methods, limitations, and data sources is contained in the BLS Handbook of Methods, BLS Bulletin 1711 (1971), Chapter 26, and in a number of individual industry reports. These publications, as well as additional information, are available on request from the Bureau of Labor Statistics.

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

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u> , <u>2/</u>		OUTPUT PER EMPLOYEE <u>1/</u>	
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	31.4	(3/)	29.5	(3/)
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 <u>4/</u>	118.1	120.8	122.4	115.3
	AVERAGE ANNUAL RATES (PERCENT)			
1950-74.....	5.4	5.1	5.4	3.7
1969-74.....	1.2	2.2	2.2	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/ 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 3. IRON MINING, CRUDE ORE SIC 1011
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS ^{1/}	EMPLOYMENT		
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	33.4	106.3	(2/)	113.4	(2/)
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 ^{3/}	120.3	101.9	99.6	98.3	104.3
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	2.4	- 2.9	- 2.6	- 2.8	- 1.3
1969-74.....	1.0	- 0.2	- 1.2	- 1.1	- 1.5

^{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 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>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	56.5	(<u>3/</u>)	53.0	(<u>3/</u>)
1947.....	63.8	73.5	65.3	146.7
1948.....	64.1	75.0	67.0	138.9
1949.....	62.4	68.4	62.5	108.3
1950.....	67.0	75.0	68.9	114.4
1951.....	73.1	84.1	77.5	125.2
1952.....	69.1	79.6	75.5	101.2
1953.....	71.9	80.3	75.8	104.2
1954.....	62.2	60.2	58.1	69.8
1955.....	81.1	82.1	80.5	88.8
1956.....	78.2	75.9	76.3	74.4
1957.....	78.1	74.1	75.3	69.8
1958.....	70.9	58.5	62.3	47.1
1959.....	70.0	59.7	64.1	46.9
1960.....	78.0	73.6	75.3	67.7
1961.....	82.2	73.2	76.9	61.5
1962.....	85.1	78.6	82.0	67.6
1963.....	90.6	84.1	85.3	79.0
1964.....	100.4	97.1	97.1	97.1
1965.....	99.1	97.8	97.1	100.8
1966.....	102.2	103.1	102.7	104.4
1967.....	100.0	100.0	100.0	100.0
1968.....	103.8	102.2	102.9	99.6
1969.....	106.5	103.3	105.2	96.2
1970.....	105.4	103.4	105.0	97.7
1971.....	103.0	97.5	99.3	91.5
1972.....	106.5	101.9	104.6	92.9
1973.....	108.2	108.7	110.1	103.4
1974 <u>4/</u>	97.1	99.3	100.6	94.8
	AVERAGE ANNUAL RATES (PERCENT)			
1950-74.....	2.2	1.9	2.2	0.5
1969-74.....	- 1.0	(<u>5/</u>)	- 0.1	0.3

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/ Series revised to incorporate additional data from economic censuses.

3/ Not available.

4/ Preliminary.

5/ Less than .05 percent.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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	EMPLOYEE-HOURS ^{1/}		EMPLOYMENT	
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	60.1	106.3	(2/)	113.4	(2/)
1947.....	108.4	170.0	147.4	166.1	73.9
1948.....	117.8	183.7	157.1	175.7	84.8
1949.....	99.0	158.7	144.7	158.3	91.4
1950.....	114.4	170.8	152.6	166.1	100.0
1951.....	136.2	186.4	161.9	175.7	108.8
1952.....	114.5	165.8	143.8	151.7	113.1
1953.....	138.2	192.1	172.2	182.3	132.6
1954.....	91.1	146.5	151.4	156.7	130.5
1955.....	119.8	147.7	146.0	148.9	134.9
1956.....	113.3	144.9	149.2	148.4	152.2
1957.....	123.0	157.4	165.9	163.4	176.2
1958.....	77.9	109.8	133.2	125.0	165.3
1959.....	69.4	99.1	116.3	108.3	148.0
1960.....	103.0	132.1	139.9	136.8	152.2
1961.....	82.9	100.8	113.3	107.8	134.9
1962.....	83.8	98.5	106.6	102.2	124.0
1963.....	85.9	94.8	102.2	100.7	108.8
1964.....	99.2	98.8	102.2	102.2	102.2
1965.....	103.0	103.9	105.3	106.1	102.2
1966.....	106.7	104.4	103.5	103.9	102.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	101.8	98.1	99.6	98.9	102.2
1969.....	104.6	98.2	101.3	99.4	108.7
1970.....	106.2	100.8	102.7	101.1	108.7
1971.....	95.4	92.6	97.8	96.1	104.3
1972.....	88.9	83.5	87.2	85.0	95.7
1973.....	103.4	95.6	95.1	93.9	100.0
1974 ^{3/}	98.9	101.9	99.6	98.3	104.3
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	- 0.7	- 2.9	- 2.6	- 2.8	- 1.3
1969-74.....	- 1.2	- 0.2	- 1.2	- 1.1	- 1.5

^{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 <u>1/</u> , <u>2/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	26.0	(3/)	27.8	(3/)
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.....	105.4	116.8	116.4	117.9
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 <u>4/</u>	113.8	117.5	113.5	130.3
AVERAGE ANNUAL RATES (PERCENT)				
1950-74.....	4.5	3.9	4.0	3.4
1969-74.....	0.8	- 1.2	- 0.9	- 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. The output measure represents copper ore (including old tailings) sold or treated.

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

YEAR	OUTPUT <u>1/</u>	EMPLOYEE-HOURS <u>2/</u>		EMPLOYMENT	
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	40.9	157.6	(3/)	146.9	(3/)
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.....	132.2	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 <u>4/</u>	217.9	191.5	185.5	192.0	167.2
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	4.9	0.4	1.0	0.9	1.5
1969-74.....	4.5	3.6	5.7	5.4	6.9

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

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

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u> , <u>2/</u>		OUTPUT PER EMPLOYEE <u>1/</u>	
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	47.1	(3/)	50.5	(3/)
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 <u>4/</u>	89.0	91.9	88.8	102.0
	AVERAGE ANNUAL RATES (PERCENT)			
1950-74.....	2.5	1.9	2.1	1.5
1969-74.....	- 2.6	- 4.5	- 4.2	- 5.5

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. The output measure represents copper recovered from copper ore, old tailings, and precipitates.

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

YEAR	OUTPUT <u>1/</u>	EMPLOYEE-HOURS <u>2/</u>		EMPLOYMENT	
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	74.2	157.6	(3/)	146.9	(3/)
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 <u>4/</u>	170.5	191.5	185.5	192.0	167.2
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	3.0	0.4	1.0	0.9	1.5
1969-74.....	1.0	3.6	5.7	5.4	6.9

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

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 10. TOTAL 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> / <u>2</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.....	103.3		101.5	102.1	97.0
1969.....	102.0		99.7	100.1	96.8
1970.....	97.1		97.7	97.8	96.8
1971.....	91.0		87.3	91.6	66.0
1972.....	84.2		83.6	85.5	71.6
1973.....	83.8		82.1	83.1	75.3
1974 <u>3</u> /.....	82.1		76.7	78.2	68.0
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	4.4		4.8	5.2	1.9
1969-74.....	- 4.5		- 5.2	- 5.0	- 6.7

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/ Series revised to incorporate additional data from economic censuses.

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

YEAR	OUTPUT	EMPLOYEE-HOURS <u>1/</u>	EMPLOYMENT		
		PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	87.7	299.3	364.6	394.5	153.9
1947.....	131.8	409.4	375.6	402.8	183.7
1948.....	126.2	393.3	382.4	409.8	188.5
1949.....	92.6	278.9	347.5	369.9	188.5
1950.....	106.9	297.8	325.9	346.7	179.4
1951.....	109.2	302.0	323.4	344.6	174.6
1952.....	96.6	254.5	285.9	302.5	168.5
1953.....	91.3	224.8	249.7	263.4	152.8
1954.....	79.4	166.6	195.0	202.2	143.0
1955.....	91.6	178.9	182.7	189.6	133.9
1956.....	99.7	184.4	189.7	195.8	146.1
1957.....	97.1	177.3	191.0	195.5	159.4
1958.....	81.3	132.9	160.1	159.4	163.7
1959.....	81.2	129.6	147.2	145.9	156.3
1960.....	80.8	120.9	138.0	136.6	147.2
1961.....	77.8	105.1	119.4	118.5	124.8
1962.....	80.9	102.2	112.3	112.5	110.2
1963.....	87.8	105.6	110.8	112.0	101.8
1964.....	91.8	104.5	108.7	109.8	100.6
1965.....	94.7	101.7	103.6	104.1	100.0
1966.....	97.3	99.3	99.7	99.7	99.4
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	97.6	94.5	96.2	95.6	100.6
1969.....	99.1	97.2	99.4	99.0	102.4
1970.....	105.0	108.1	107.5	107.4	108.5
1971.....	95.2	104.6	109.0	103.9	144.2
1972.....	101.1	120.1	121.0	118.2	141.2
1973.....	100.4	119.8	122.3	120.8	133.3
1974 <u>2/</u>	101.8	124.0	132.7	130.2	149.7
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	0.3	- 3.9	- 4.3	- 4.6	- 1.6
1969-74.....	0.2	4.9	5.7	5.4	7.4

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

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

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u> , <u>2/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	27.9	22.8	21.0	55.8
1947.....	31.1	34.1	31.8	70.6
1948.....	30.9	31.7	29.6	63.6
1949.....	32.3	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.....	103.1	101.1	101.9	96.0
1969.....	101.7	99.5	100.1	96.0
1970.....	97.3	97.6	97.9	95.8
1971.....	91.7	87.5	91.9	64.8
1972.....	83.9	83.0	85.0	70.8
1973.....	83.3	81.4	82.5	74.7
1974 <u>3/</u>	81.7	75.8	77.4	66.8
	AVERAGE ANNUAL RATES (PERCENT)			
1950-74.....	4.5	4.8	5.2	1.8
1969-74.....	- 4.6	- 5.4	- 5.2	- 6.8

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/ Series revised to incorporate additional data from economic censuses.

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

YEAR	OUTPUT	EMPLOYEE-HOURS <u>1/</u>			
		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	94.9	96.7	96.0	101.9
1969.....	99.7	98.0	100.2	99.6	103.9
1970.....	106.3	109.2	108.9	108.6	111.0
1971.....	96.6	105.4	110.6	105.1	149.0
1972.....	103.2	123.0	124.4	121.4	145.8
1973.....	102.6	123.1	126.0	124.4	137.4
1974 <u>2/</u>	104.2	127.5	137.4	134.7	156.1
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	1.0	- 3.4	- 3.7	- 4.0	- 0.9
1969-74.....	0.5	5.4	6.3	6.1	7.9

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

2/ 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 14. 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> , <u>2/</u>			OUTPUT PER EMPLOYEE <u>1/</u> , <u>2/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(4/)	46.3	(4/)	(4/)	44.9	(4/)
1947.....	54.8	53.4	(67.1)	55.4	53.6	71.0
1948.....	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
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.....	115.4	117.8	(100.9)	113.6	115.6	102.1
1973 <u>5/</u>	123.9	127.5	(103.1)	121.8	124.7	104.7
	AVERAGE ANNUAL RATES (PERCENT)					
1950-73....	2.8	2.9	(2.4)	2.9	3.0	2.1
1969-73....	4.1	4.7	(0.6)	4.4	4.8	1.9

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/ Output series revised to reflect changes in the adjustment to census levels and the introduction of additional product detail; employment and hours series revised to reflect census data.

3/ 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.

4/ Not available.

5/ Preliminary.

Source: Output based on data from the National Cannery Association; U.S. Department of Agriculture; the Bureau of Labor Statistics, U.S. Department of Labor; 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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 15. CANNING AND PRESERVING SIC 203
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS 1/			EMPLOYMENT 1/		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	29.6	(3/)	64.0	(3/)	(3/)	65.9	(3/)
1947.....	47.3	86.3	88.6	(70.5)	85.4	88.3	66.6
1948.....	46.8	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
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	103.4	101.3	(118.2)	105.0	103.2	116.9
1973 4/.....	128.1	103.4	100.5	(124.3)	105.2	102.7	122.4
AVERAGE ANNUAL RATES (PERCENT)							
1950-73.....	3.8	0.9	0.9	(1.4)	0.9	0.8	1.7
1969-73.....	4.9	0.8	0.2	(4.4)	0.6	0.2	3.0

1/ Output series revised to reflect changes in the adjustment to census levels and the introduction of additional product detail; employment and hours series revised to reflect census data.

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, U.S. Department of Labor; 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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 16. 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 <u>1/</u> , <u>2/</u>			OUTPUT PER EMPLOYEE <u>1/</u> , <u>2/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(4/)	53.1	(4/)	(4/)	49.5	(4/)
1947.....	52.0	48.5	(67.0)	56.5	52.4	70.9
1948.....	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
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.....	112.8	110.1	(122.7)	113.5	109.7	124.8
1974 <u>5/</u>	109.5	107.4	(117.1)	108.8	105.3	118.9
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	4.0	4.1	(3.9)	4.0	4.1	3.6
1969-74.....	1.3	1.0	(2.5)	1.5	0.8	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/ Series revised to reflect greater product detail in the output measure beginning in 1963.

3/ 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.

4/ Not available.

5/ Preliminary.

TABLE 17. FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	81.5	(3/)	153.4	(3/)	(3/)	164.6	(3/)
1947.....	109.2	210.2	225.0	(163.1)	193.2	208.3	154.0
1948.....	99.7	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
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.....	94.1	83.4	85.5	(76.7)	82.9	85.8	75.4
1974 ^{4/}	91.8	83.8	85.5	(78.4)	84.4	87.2	77.2
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	0.7	-3.2	-3.2	(-3.0)	-3.1	-3.2	-2.8
1969-74.....	-1.8	-3.1	-2.7	(-4.2)	-3.3	-2.6	-5.2

1/ Series revised to reflect greater product detail in the output measure beginning in 1963.

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, 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 18. 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.....	113.2	115.6	(109.4)	115.7	114.9	116.8
1973.....	112.7	114.6	(109.6)	115.3	114.0	117.4
1974 ^{4/}	114.5	113.9	(115.6)	114.9	113.3	117.4
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	2.5	2.7	(2.2)	2.4	2.6	2.2
1969-74.....	2.3	2.5	(2.0)	2.4	2.5	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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 19. BAKERY PRODUCTS SIC 205
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	75.5	113.9	126.6	(93.1)	106.1	118.0	87.9
1948.....	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	77.1	117.1	125.8	(102.7)	110.8	119.5	97.8
1950.....	77.8	117.2	125.4	(103.8)	111.5	119.8	98.9
1951.....	79.9	121.4	127.5	(111.6)	116.1	122.5	106.3
1952.....	83.9	124.1	128.3	(117.4)	119.1	124.1	111.6
1953.....	80.1	112.4	117.9	(103.4)	108.6	114.9	99.1
1954.....	79.7	113.1	113.9	(112.1)	110.7	112.8	107.5
1955.....	81.5	114.6	114.8	(114.3)	112.3	113.7	110.3
1956.....	84.7	116.8	115.9	(118.7)	115.5	116.4	114.0
1957.....	87.0	116.4	112.5	(123.0)	115.4	113.6	118.4
1958.....	90.3	116.8	114.3	(121.1)	114.4	113.0	116.6
1959.....	90.9	117.7	114.4	(123.1)	115.3	113.1	118.8
1960.....	91.8	118.1	115.0	(123.5)	115.0	111.6	120.3
1961.....	91.0	115.2	112.3	(120.2)	112.9	109.1	118.8
1962.....	92.9	114.5	110.5	(121.2)	112.3	106.9	120.5
1963.....	93.7	107.3	104.9	(111.5)	106.0	102.8	110.8
1964.....	97.4	108.1	106.1	(111.5)	104.6	100.8	110.5
1965.....	99.1	106.0	104.2	(109.2)	105.1	102.8	108.7
1966.....	99.7	105.4	104.3	(107.5)	103.9	101.6	107.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	100.7	98.7	99.5	(97.3)	97.5	98.1	96.8
1969.....	103.1	100.8	101.2	(100.1)	100.2	101.5	98.3
1970.....	99.1	93.8	94.3	(92.9)	92.8	94.7	90.1
1971.....	98.5	91.1	89.6	(93.8)	89.7	90.0	89.2
1972.....	103.1	91.1	89.2	(94.2)	89.1	89.7	88.3
1973.....	101.8	90.3	88.8	(92.9)	88.3	89.3	86.7
1974 ^{3/}	97.8	85.4	85.9	(84.6)	85.1	86.3	83.3
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	1.2	-1.3	-1.5	(-1.0)	-1.2	-1.4	-1.0
1969-74.....	-0.4	-2.7	-2.8	(-2.4)	-2.7	-2.8	-2.7

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

2/ Not available.

3/ Preliminary.

Source: Output, 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 20. 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.....	116.0	117.3	(110.8)	118.6	118.6	118.8
1973.....	113.8	114.2	(111.6)	118.0	117.5	120.2
1974 ^{4/}	110.4	108.7	(118.6)	117.5	115.2	127.9
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	4.0	4.1	(3.5)	4.1	4.2	3.4
1969-74.....	1.4	1.5	(1.4)	3.0	2.8	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 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, 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 21. SUGAR SIC 2061,2062,2063
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	60.1	140.1	146.7	(104.7)	132.0	139.0	98.9
1948.....	54.8	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	58.6	123.9	129.8	(92.3)	120.6	127.6	87.8
1950.....	65.9	129.9	135.1	(102.1)	128.8	135.5	97.5
1951.....	57.2	120.7	124.3	(101.4)	123.2	128.8	96.6
1952.....	60.9	119.1	121.8	(104.8)	117.3	121.1	99.6
1953.....	64.9	122.5	124.7	(111.3)	119.9	122.7	106.7
1954.....	65.6	112.6	112.8	(112.0)	112.4	113.4	107.4
1955.....	65.0	107.8	108.4	(105.2)	108.1	109.5	101.5
1956.....	68.1	107.3	108.5	(101.1)	103.8	105.3	97.2
1957.....	67.5	107.7	109.3	(99.7)	105.4	107.4	96.0
1958.....	71.7	110.7	110.5	(112.4)	106.4	105.9	108.3
1959.....	75.5	110.3	110.7	(108.4)	108.3	109.2	104.6
1960.....	77.7	107.6	108.0	(106.0)	104.5	104.7	103.3
1961.....	82.5	106.5	106.7	(105.7)	104.2	104.2	104.4
1962.....	86.3	101.3	102.2	(97.1)	99.1	99.8	96.6
1963.....	91.0	105.6	105.9	(104.1)	103.6	103.7	103.6
1964.....	98.7	108.4	108.7	(107.3)	105.7	105.5	106.4
1965.....	96.2	100.9	101.9	(96.4)	101.9	103.4	95.9
1966.....	97.6	98.1	97.7	(101.5)	99.7	98.1	101.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.6	100.3	101.1	(96.6)	99.7	100.4	96.6
1969.....	102.8	100.7	101.1	(98.9)	102.3	102.8	100.0
1970.....	109.1	97.8	98.9	(92.8)	99.4	100.4	94.9
1971.....	109.2	99.2	99.6	(97.5)	95.5	95.6	94.9
1972.....	114.8	99.0	97.9	(103.6)	96.8	96.8	96.6
1973.....	110.0	96.7	96.3	(98.6)	93.2	93.6	91.5
1974 ^{3/}	108.3	98.1	99.6	(91.3)	92.2	94.0	84.7
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	3.0	-1.0	-1.1	(-0.5)	-1.0	-1.1	-0.4
1969-74.....	1.0	-0.5	-0.5	(-0.4)	-2.0	-1.8	-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, 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 22. CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2065
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u> , <u>2/</u>			OUTPUT PER EMPLOYEE <u>1/</u> , <u>2/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(4/)	47.6	(4/)	(4/)	47.9	(4/)
1947.....	54.6	53.3	(63.2)	57.6	56.2	67.2
1948.....	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
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.....	135.8	146.8	(96.5)	137.1	148.6	97.4
1974 <u>5/</u>	131.5	132.2	(88.1)	132.2	145.7	88.9
AVERAGE ANNUAL RATES (PERCENT)						
1950-74....	3.8	3.7	(3.8)	3.6	3.6	3.5
1969-74....	7.1	7.5	(-0.1)	7.1	8.8	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/ Output series changed to reflect greater product detail beginning in 1967.

3/ 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.

4/ Not available.

5/ 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, U.S. Department of Commerce, and the

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

TABLE 23. CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2065
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	42.0	(3/)	88.2	(3/)	(3/)	87.7	(3/)
1947.....	64.2	117.5	120.5	(101.6)	111.4	114.3	95.6
1948.....	64.2	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
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.....	122.6	90.3	83.5	(127.1)	89.4	82.5	125.9
1974 4/.....	112.8	85.8	85.3	(128.0)	85.3	77.4	126.9
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	3.0	-0.7	-0.7	(-0.8)	-0.6	-0.6	-0.4
1969-74.....	3.5	-3.4	-3.8	(3.6)	-3.4	-4.9	2.5

1/ Output series changed to reflect greater product detail beginning in 1967.

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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 24. MALT LIQUORS 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/)	(3/)	(3/)
1947.....	42.0	38.6	(51.6)	47.7	44.8	54.7
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	46.3	45.3	(48.4)	49.5	48.7	50.9
1950.....	45.9	46.4	(44.9)	48.4	49.0	47.0
1951.....	46.7	46.5	(46.9)	49.5	49.4	49.2
1952.....	48.4	48.1	(49.1)	50.9	50.5	51.6
1953.....	48.1	48.1	(48.1)	50.2	50.2	50.1
1954.....	49.4	50.5	(47.3)	51.0	51.9	49.2
1955.....	51.4	51.9	(50.3)	52.8	53.0	52.1
1956.....	52.4	53.3	(50.5)	53.9	54.5	52.4
1957.....	54.1	55.4	(51.4)	55.1	55.9	53.4
1958.....	59.9	60.8	(57.8)	60.3	60.4	60.0
1959.....	62.7	62.9	(62.0)	63.3	62.8	64.3
1960.....	65.2	64.9	(65.5)	65.0	63.8	67.2
1961.....	68.3	68.2	(68.5)	68.0	67.2	69.3
1962.....	71.8	71.1	(73.1)	71.9	71.1	73.5
1963.....	78.9	77.9	(81.1)	79.0	77.7	81.4
1964.....	84.6	83.9	(86.0)	84.9	83.7	86.8
1965.....	89.0	88.7	(89.3)	89.6	89.6	89.6
1966.....	93.7	93.9	(92.8)	94.6	95.3	92.8
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.3	105.8	(113.9)	107.0	106.2	108.8
1969.....	115.7	114.0	(119.5)	114.6	114.1	115.4
1970.....	119.6	119.4	(119.9)	120.2	121.6	117.3
1971.....	125.1	128.3	(118.8)	125.1	128.6	118.4
1972.....	139.3	141.6	(134.9)	142.7	145.9	136.5
1973.....	153.2	148.6	(163.8)	157.6	153.7	166.3
1974 ^{4/}	167.6	160.5	(185.0)	174.6	168.8	187.8
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	5.7	5.5	(5.9)	5.5	5.5	5.6
1969-74.....	8.0	7.3	(9.7)	9.1	8.3	10.9

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

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

^{3/} Not available.

^{4/} Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury, and the Bureau of the Census, 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 25. MALT LIQUORS SIC 2082
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	37.2	(2/)	112.8	(2/)	(2/)	109.5	(2/)
1947.....	66.2	157.6	171.6	(128.2)	138.8	147.8	121.0
1948.....	64.3	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	65.5	141.5	144.5	(135.3)	132.4	134.4	128.8
1950.....	66.1	143.9	142.5	(147.3)	136.6	134.8	140.6
1951.....	68.2	146.1	146.6	(145.5)	137.9	138.0	138.5
1952.....	69.5	143.5	144.5	(141.6)	136.6	137.7	134.7
1953.....	71.7	149.1	149.1	(149.2)	142.7	142.9	143.0
1954.....	69.8	141.3	138.3	(147.7)	136.8	134.6	141.9
1955.....	71.4	138.8	137.5	(142.0)	135.3	134.6	137.0
1956.....	72.0	137.4	135.0	(142.7)	133.6	132.1	137.3
1957.....	71.8	132.7	129.5	(139.7)	130.2	128.4	134.5
1958.....	72.6	121.3	119.4	(125.5)	120.3	120.1	121.1
1959.....	75.3	120.1	119.7	(121.4)	119.0	120.0	117.1
1960.....	76.1	116.8	117.2	(116.1)	117.1	119.3	113.2
1961.....	77.7	113.7	114.0	(113.5)	114.3	115.6	112.2
1962.....	79.6	110.8	111.9	(108.9)	110.7	112.0	108.3
1963.....	83.0	105.2	106.6	(102.4)	105.0	106.8	102.0
1964.....	88.1	104.1	105.0	(102.4)	103.8	105.2	101.5
1965.....	90.9	102.1	102.5	(101.8)	101.4	101.5	101.4
1966.....	96.0	102.5	102.2	(103.4)	101.5	100.7	103.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.4	97.3	99.6	(92.5)	98.5	99.2	96.9
1969.....	110.1	95.2	96.6	(92.1)	96.1	96.5	95.4
1970.....	115.5	96.6	96.7	(96.3)	96.1	95.0	98.5
1971.....	119.6	95.6	93.2	(100.7)	95.6	93.0	101.0
1972.....	123.3	88.5	87.1	(91.4)	86.4	84.5	90.3
1973.....	129.9	84.8	87.4	(79.3)	82.4	84.5	78.1
1974 ^{3/}	137.1	81.8	85.4	(74.1)	78.5	81.2	73.0
AVERAGE ANNUAL RATES (PERCENT)							
1950-74....	3.1	-2.4	-2.4	(-2.7)	-2.3	-2.3	-2.4
1969-74....	4.3	-3.4	-2.8	(-4.9)	-4.4	-3.7	-5.9

^{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/} 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, 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 26. 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/} , ^{2/}			OUTPUT PER EMPLOYEE ^{1/} , ^{2/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{3/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	86.3	85.8	(86.8)	88.4	86.0	89.9
1959.....	90.4	90.4	(90.5)	93.6	93.4	93.7
1960.....	87.3	88.1	(86.9)	89.4	89.9	89.0
1961.....	90.8	92.2	(90.1)	91.8	93.0	91.2
1962.....	97.3	99.5	(96.0)	97.4	99.6	96.0
1963.....	100.3	100.8	(100.2)	101.4	103.2	100.2
1964.....	99.7	101.4	(98.7)	100.3	103.0	98.7
1965.....	100.2	102.4	(98.7)	100.7	103.9	98.7
1966.....	101.0	100.0	(101.7)	101.8	101.8	101.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.4	108.9	(106.5)	106.5	106.5	106.5
1969.....	104.6	109.2	(101.7)	104.2	105.7	103.4
1970.....	105.2	113.0	(100.3)	105.8	109.4	103.6
1971.....	111.2	123.0	(104.2)	113.1	119.2	109.6
1972.....	114.2	124.4	(108.0)	117.5	119.8	116.0
1973.....	120.0	130.6	(113.5)	123.1	125.2	121.9
1974 ^{4/}	121.4	135.0	(113.6)	124.1	127.7	122.0
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	2.0	2.6	(1.5)	1.9	2.1	1.8
1969-74.....	3.4	4.4	(2.8)	4.0	3.9	4.0

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

^{2/} Series revised to reflect changes in the adjustment to census levels and the introduction of additional product detail in the output measure.

^{3/} 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.

^{4/} 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, U.S. Department of Commerce. Employment and hours based on data from the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 27. BOTTLED AND CANNED SOFT DRINKS SIC 2086
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	68.3	79.1	79.6	(78.7)	77.3	79.4	76.0
1959.....	74.0	81.9	81.9	(81.8)	79.1	79.2	79.0
1960.....	73.1	83.7	83.0	(84.1)	81.8	81.3	82.1
1961.....	75.4	83.0	81.8	(83.7)	82.1	81.1	82.7
1962.....	81.4	83.7	81.8	(84.8)	83.6	81.7	84.8
1963.....	86.8	86.5	86.1	(86.6)	85.6	84.1	86.6
1964.....	89.7	90.0	88.5	(90.9)	89.4	87.1	90.9
1965.....	92.9	92.7	90.7	(94.1)	92.3	89.4	94.1
1966.....	99.2	98.2	99.2	(97.5)	97.4	97.4	97.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.9	99.5	98.2	(100.4)	100.4	100.4	100.4
1969.....	107.0	102.3	98.0	(105.2)	102.7	101.2	103.5
1970.....	107.9	102.6	95.5	(107.6)	102.0	98.6	104.2
1971.....	113.8	102.3	92.5	(109.2)	100.6	95.5	103.8
1972.....	116.9	102.4	94.0	(108.2)	99.5	97.6	100.8
1973.....	123.7	103.1	94.7	(109.0)	100.5	98.8	101.5
1974 3/.....	124.6	102.6	92.3	(109.7)	100.4	97.6	102.1
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	3.9	1.9	1.2	(2.3)	1.9	1.7	2.0
1969-74.....	3.5	0.1	-0.9	(0.7)	-0.5	-0.4	-0.5

1/ Series revised to reflect changes in the adjustment to census levels and the introduction of additional product detail in the output measure.

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

TABLE 28. 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.....	107.9	110.0	(93.3)	106.9	109.3	91.1
1974 ^{4/}	107.3	109.8	(90.7)	105.7	108.2	88.6
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	2.9	3.2	(0.7)	3.0	3.2	0.5
1969-74.....	1.1	1.5	(-2.0)	1.0	1.4	-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/} 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, U.S. Department of Commerce, and Agricultural Marketing Service, U.S. Department of Agriculture. 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 29. TOBACCO PRODUCTS-TOTAL SIC 2111, 2121, 2131
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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.....	103.7	96.1	94.3	(111.1)	97.0	94.9	113.8
1974 ^{3/}	100.8	93.9	91.8	(111.1)	95.4	93.2	113.8
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	1.3	-1.6	-1.8	(0.7)	-1.6	-1.9	0.8
1969-74.....	0.4	-0.7	-1.1	(2.4)	-0.6	-1.0	2.4

^{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, U.S. Department of Commerce, and Agricultural Marketing Service, U.S. Department of Agriculture. 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 30. 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	104.8	107.4	(88.2)	103.2	105.9	86.4
1974 ^{4/}	104.4	107.5	(85.5)	102.0	105.1	83.7
AVERAGE ANNUAL RATES (PERCENT)						
1950-74....	1.3	1.6	(-0.4)	1.2	1.4	-0.6
1969-74....	1.1	1.6	(-2.2)	1.1	1.6	-2.2

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

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

^{3/} 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, U.S. Department of Commerce, and Agricultural Marketing Service, U.S. Department of Agriculture. 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 31. CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 2111.31
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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.....	113.9	108.7	106.1	(129.2)	110.4	107.6	131.9
1974 ^{3/}	112.2	107.5	104.4	(131.3)	110.0	106.8	134.0
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	1.8	0.4	0.2	(2.2)	0.6	0.4	2.4
1969-74.....	2.9	1.8	1.3	(5.1)	1.8	1.3	5.1

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury, and the Bureau of the Census, U.S. Department of Commerce, and Agricultural Marketing Service, U.S. Department of Agriculture. 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 32. CIGARS SIC 2121
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	28.7	(3/)	28.0	27.0	42.8
1947.....	33.0	31.4	(59.2)	33.6	32.2	58.7
1948.....	35.9	34.3	(61.4)	35.9	34.5	61.1
1949.....	36.7	35.2	(60.6)	36.1	34.6	59.6
1950.....	41.0	39.4	(64.9)	38.7	37.2	63.6
1951.....	42.0	40.4	(66.5)	40.3	38.8	65.4
1952.....	43.9	42.0	(75.5)	42.8	40.9	74.4
1953.....	43.4	42.0	(61.8)	43.1	41.8	60.4
1954.....	45.4	43.8	(69.4)	44.8	43.3	67.6
1955.....	45.8	44.2	(67.8)	44.8	43.4	65.6
1956.....	50.5	48.9	(71.8)	49.0	47.6	69.8
1957.....	54.0	52.3	(76.2)	52.8	51.2	74.0
1958.....	62.6	61.2	(77.7)	62.4	61.3	75.4
1959.....	67.9	66.7	(81.0)	68.4	67.5	78.5
1960.....	75.1	73.7	(90.5)	75.3	74.1	88.8
1961.....	79.5	78.9	(85.3)	80.4	79.9	84.3
1962.....	85.2	84.6	(89.8)	85.4	85.0	90.3
1963.....	91.7	90.5	(102.1)	91.8	90.9	102.5
1964.....	101.3	97.9	(145.8)	107.0	104.1	147.2
1965.....	104.4	102.8	(121.1)	105.2	103.6	121.6
1966.....	103.2	100.8	(133.4)	103.0	100.6	133.4
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.6	103.2	(107.7)	104.1	104.1	104.1
1969.....	108.1	108.0	(109.8)	109.0	109.3	105.7
1970.....	113.3	112.7	(118.9)	114.4	114.3	114.4
1971.....	120.1	118.4	(137.7)	121.3	120.1	132.5
1972.....	120.1	120.7	(114.3)	120.0	121.3	109.6
1973.....	116.8	115.9	(125.0)	117.1	116.8	120.1
1974 ^{4/}	116.4	115.3	(127.0)	115.5	114.7	122.3
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	5.3	5.5	(3.3)	5.5	5.7	3.3
1969-74.....	1.3	1.2	(2.0)	1.0	0.9	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/} 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, 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 33. CIGARS SIC 2121
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
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 ^{3/}	74.7	64.2	64.8	(58.8)	64.7	65.1	61.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	0.1	-4.9	-5.1	(-3.1)	-5.1	-5.3	-3.0
1969-74.....	-6.3	-7.5	-7.4	(-8.1)	-7.2	-7.2	-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 Bureau of Alcohol, Tobacco, and Firearms, U.S. Department of the Treasury, 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 34. 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.....	147.4	152.5	(110.8)	140.2	143.9	111.0
1974 ^{4/}	156.7	162.5	(115.5)	149.1	153.4	115.3
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	6.0	6.1	(4.3)	5.9	6.0	4.2
1969-74.....	7.2	7.8	(2.0)	6.4	7.0	1.9

^{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 National Association of Hosiery Manufacturers, Inc., 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 35. HOSIERY SIC 2251,2252
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	52.6	142.4	146.9	(98.3)	139.2	143.6	96.0
1948.....	52.7	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	52.3	136.1	137.5	(123.0)	136.3	137.9	121.2
1950.....	58.5	144.1	147.3	(113.5)	143.7	146.8	112.3
1951.....	57.3	134.5	135.0	(130.3)	137.5	138.5	128.6
1952.....	60.6	132.1	131.9	(133.4)	131.2	131.3	131.4
1953.....	59.9	134.5	135.4	(125.7)	135.7	137.0	124.7
1954.....	58.3	124.7	127.0	(102.0)	127.4	130.1	101.4
1955.....	59.1	128.3	130.3	(109.4)	130.6	132.8	109.1
1956.....	57.7	122.8	124.6	(106.4)	125.3	127.4	105.9
1957.....	57.7	117.3	118.5	(106.6)	119.9	121.4	106.2
1958.....	59.8	103.0	103.3	(99.4)	106.5	107.2	99.0
1959.....	63.0	109.0	110.1	(99.1)	109.5	110.6	98.8
1960.....	62.8	105.9	107.1	(95.2)	106.9	108.3	94.6
1961.....	68.8	106.1	106.6	(101.9)	106.6	107.2	101.9
1962.....	70.6	105.2	105.5	(101.8)	105.6	106.1	101.6
1963.....	73.1	96.4	97.2	(88.4)	97.9	98.9	88.2
1964.....	77.7	95.8	96.9	(86.3)	95.0	95.9	85.7
1965.....	81.8	101.1	102.1	(91.0)	100.7	101.7	90.9
1966.....	90.3	101.4	102.1	(95.1)	99.9	100.5	95.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	98.6	105.4	104.8	(110.8)	104.9	104.6	106.9
1969.....	119.7	110.9	110.3	(117.4)	110.3	109.8	116.1
1970.....	129.3	100.9	99.6	(113.8)	106.0	105.1	114.9
1971.....	107.5	88.9	86.3	(114.4)	92.8	90.6	114.9
1972.....	116.9	84.0	81.7	(106.6)	84.7	82.5	106.9
1973.....	114.8	77.9	75.3	(103.6)	81.9	79.8	103.4
1974 ^{3/}	110.0	70.2	67.7	(95.2)	73.8	71.7	95.4
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	3.7	-2.1	-2.3	(-0.6)	-2.1	-2.2	-0.5
1969-74.....	-2.0	-8.5	-9.1	(-3.9)	-7.9	-8.3	-3.8

^{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 based on data from the National Association of Hosiery Manufacturers, Inc., 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 36. 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> , <u>2/</u>			OUTPUT PER EMPLOYEE <u>1/</u> , <u>2/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(4/)	48.5	(4/)	(4/)	45.8	(4/)
1947.....	47.9	44.4	(78.9)	50.3	46.0	81.2
1948.....	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
1949.....	50.1	47.4	(70.1)	50.3	46.9	71.4
1950.....	56.4	53.0	(83.6)	58.5	54.4	84.9
1951.....	58.8	55.6	(82.1)	60.7	57.0	83.8
1952.....	57.6	54.9	(76.0)	58.5	55.2	77.6
1953.....	57.6	54.9	(75.2)	58.7	55.6	76.3
1954.....	59.7	57.4	(75.1)	60.0	57.1	75.9
1955.....	63.9	61.0	(83.1)	65.6	62.3	83.6
1956.....	66.7	64.3	(81.6)	68.1	65.3	82.2
1957.....	66.6	64.9	(77.0)	66.4	64.1	77.6
1958.....	68.3	66.7	(77.7)	67.7	65.4	78.3
1959.....	72.4	70.9	(81.1)	73.2	71.5	81.6
1960.....	74.8	73.9	(79.8)	74.7	73.5	80.2
1961.....	79.7	79.0	(83.1)	79.4	78.5	83.3
1962.....	82.8	82.0	(87.2)	82.7	81.6	87.7
1963.....	87.6	86.9	(91.6)	87.7	86.7	92.0
1964.....	92.2	91.3	(97.5)	93.1	91.9	98.3
1965.....	96.9	96.4	(99.5)	97.4	96.7	100.0
1966.....	101.6	101.2	(104.2)	102.9	102.5	104.2
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.4	105.8	(109.8)	107.2	106.5	109.6
1969.....	110.5	109.7	(114.7)	111.2	110.8	112.7
1970.....	114.6	114.7	(114.3)	112.3	112.7	110.9
1971.....	119.9	121.3	(113.6)	118.2	119.6	112.6
1972.....	130.0	131.2	(124.2)	129.6	130.8	125.1
1973.....	136.5	137.5	(131.9)	135.4	135.8	133.4
1974 <u>5/</u>	135.0	136.2	(129.9)	133.1	133.5	131.4
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	4.0	4.3	(2.3)	3.9	4.2	2.3
1969-74.....	4.7	5.0	(3.3)	4.5	4.6	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/ Series revised to reflect greater product detail in the output measure beginning in 1967.

3/ 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.

4/ Not available.

5/ Preliminary.

Source: Output based on data from 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 37. PAPER, PAPERBOARD AND PULP MILLS SIC 2611, 21, 31, 61
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	26.9	(3/)	55.5	(3/)	(3/)	58.7	(3/)
1947.....	41.8	87.2	94.1	(53.0)	83.1	90.8	51.5
1948.....	43.5	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	40.5	80.8	85.4	(57.8)	80.5	86.4	56.7
1950.....	48.4	85.8	91.3	(57.9)	82.8	89.0	57.0
1951.....	52.7	89.6	94.7	(64.2)	86.8	92.5	62.9
1952.....	50.1	87.0	91.2	(65.9)	85.6	90.7	64.6
1953.....	53.5	92.9	97.4	(71.1)	91.2	96.3	70.1
1954.....	54.5	91.3	95.0	(72.6)	90.8	95.4	71.8
1955.....	61.1	95.6	100.1	(73.5)	93.2	98.0	73.1
1956.....	64.8	97.2	100.8	(79.4)	95.2	99.2	78.8
1957.....	63.1	94.7	97.3	(81.9)	95.1	98.4	81.3
1958.....	63.4	92.8	95.0	(81.6)	93.7	96.9	81.0
1959.....	70.6	97.5	99.6	(87.0)	96.4	98.8	86.5
1960.....	72.2	96.5	97.7	(90.5)	96.6	98.2	90.0
1961.....	74.5	93.5	94.3	(89.6)	93.8	94.9	89.4
1962.....	78.4	94.7	95.6	(89.9)	94.8	96.1	89.4
1963.....	82.6	94.3	95.1	(90.2)	94.2	95.3	89.8
1964.....	87.9	95.3	96.3	(90.2)	94.4	95.6	89.4
1965.....	93.1	96.1	96.6	(93.6)	95.6	96.3	93.1
1966.....	100.3	98.7	99.1	(96.3)	97.5	97.9	96.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.6	101.1	101.7	(98.0)	100.4	101.0	98.2
1969.....	113.2	102.4	103.2	(98.7)	101.8	102.2	100.4
1970.....	112.1	97.8	97.7	(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.....	129.0	94.5	93.8	(97.8)	95.3	95.0	96.7
1974 4/.....	127.6	94.5	93.7	(98.2)	95.9	95.6	97.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	4.4	0.3	0.1	(2.0)	0.5	0.2	2.1
1969-74.....	3.2	-1.4	-1.7	(-0.1)	-1.3	-1.4	-0.9

1/ Series revised to reflect greater product detail in the output measure beginning in 1967.

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, 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 38. 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 <u>3/</u>	130.4	134.7	(118.1)	124.1	125.7	119.5
AVERAGE ANNUAL RATES (PERCENT)						
1958-74.....	3.6	3.8	(3.0)	3.4	3.5	2.9
1969-74.....	4.4	4.9	(2.9)	4.0	4.0	3.8

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 Fibre Box Association, 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 39. CORRUGATED AND SOLID FIBER BOXES SIC 2653
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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 ^{2/}	136.3	104.5	101.2	(115.4)	109.8	108.4	114.1
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	6.1	2.4	2.2	(3.1)	2.7	2.5	3.1
1969-74.....	4.7	0.2	-0.3	(1.7)	0.7	0.6	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, 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 40. SYNTHETIC FIBERS SIC 2823,2824
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
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.....	162.1	156.9	(180.9)	163.5	158.6	179.6
1973.....	180.0	173.2	(205.0)	182.0	175.2	204.6
1974 ^{3/}	177.6	171.7	(198.3)	176.6	170.3	197.9
	AVERAGE ANNUAL RATES (PERCENT)					
1957-74.....	6.0	5.8	(6.6)	6.0	5.9	6.5
1969-74.....	10.4	9.8	(12.4)	10.4	9.7	12.3

^{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 Textile Economics Bureau, Inc., 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 41. SYNTHETIC FIRERS SIC 2823,2824
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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	107.9	111.5	(96.7)	107.0	110.3	97.4
1973.....	201.1	111.7	116.1	(98.1)	110.5	114.8	98.3
1974 ^{2/}	198.7	111.9	115.7	(100.2)	112.5	116.7	100.4
AVERAGE ANNUAL RATES (PERCENT)							
1957-74.....	9.7	3.5	3.7	(2.9)	3.5	3.6	3.0
1969-74.....	10.6	0.2	0.7	(-1.6)	0.2	0.8	-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 based on data from the Textile Economics Bureau, Inc., 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 42. PHARMACEUTICAL PREPARATIONS SIC 2834
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>		
	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.....	133.9	144.9	135.7	146.7	124.6
1974 <u>3/</u>	141.5	154.2	141.8	154.6	129.2
AVERAGE ANNUAL RATES (PERCENT)					
1963-74.....	5.4	6.3	5.2	6.1	4.2
1969-74.....	4.7	6.7	4.2	6.2	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/ Output series revised to reflect changes in the adjustment to census levels.

3/ Preliminary.

Source: Output based on data from 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 43. PHARMACEUTICAL PREPARATIONS. SIC 2834
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS		EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	70.5	85.9	85.5	83.4	83.2	83.8
1964.....	76.8	91.5	92.5	88.4	89.5	87.2
1965.....	86.3	94.9	95.2	92.7	93.1	92.3
1966.....	94.1	100.0	100.7	96.4	97.1	95.5
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	109.1	102.6	101.8	100.3	99.5	101.3
1969.....	122.2	107.8	108.9	105.7	106.7	104.5
1970.....	131.9	113.5	111.8	109.7	108.2	111.5
1971.....	143.8	114.4	106.7	111.4	104.0	120.1
1972.....	151.5	112.3	105.6	109.8	103.3	117.5
1973.....	160.8	120.1	111.0	118.5	109.6	129.1
1974 <u>2/</u>	175.6	124.1	113.9	123.8	113.6	135.9
AVERAGE ANNUAL RATES (PERCENT)						
1963-74.....	8.6	3.1	2.2	3.3	2.3	4.3
1969-74.....	7.3	2.5	0.6	2.9	1.0	5.1

1/ Output series revised to reflect changes in the adjustment to census levels.

2/ Preliminary.

Source: Output based on data from 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 44. PAINTS AND ALLIED PRODUCTS SIC 2851
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.....	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.....	119.5	117.9	(121.8)	119.3	118.3	120.7
1973.....	112.8	110.9	(115.4)	110.0	106.1	114.7
1974 ^{3/}	121.9	123.1	(120.2)	117.2	115.3	119.7
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	2.7	2.8	(2.5)	2.4	2.5	2.4
1969-74.....	2.0	2.2	(1.8)	1.4	1.2	1.6

^{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, 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 45. PAINTS AND ALLIED PRODUCTS SIC 2851
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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.....	78.9	89.5	91.3	(87.0)	89.5	92.4	86.1
1961.....	75.9	88.3	89.7	(86.4)	88.3	90.2	86.0
1962.....	80.2	89.4	90.9	(87.4)	88.1	89.0	86.9
1963.....	86.8	93.7	94.5	(92.5)	92.7	93.2	92.1
1964.....	92.8	94.2	96.0	(91.7)	92.3	93.4	90.9
1965.....	99.1	99.5	100.3	(98.4)	98.6	99.2	98.0
1966.....	106.9	102.4	103.7	(100.7)	101.7	102.5	100.7
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.7	98.8	98.8	(98.7)	98.5	98.9	98.0
1969.....	114.3	100.4	101.8	(98.7)	100.9	102.8	98.7
1970.....	108.8	107.0	107.9	(105.7)	107.9	109.4	106.0
1971.....	115.4	100.9	99.6	(102.6)	102.9	102.8	103.0
1972.....	123.1	103.0	104.4	(101.1)	103.2	104.1	102.0
1973.....	119.1	105.6	107.4	(103.2)	108.3	112.2	103.8
1974 ^{2/}	125.4	102.9	101.9	(104.3)	107.0	108.8	104.8
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	3.8	1.1	1.0	(1.3)	1.3	1.3	1.4
1969-74.....	2.3	0.3	0.1	(0.5)	0.9	1.1	0.7

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

^{2/} Preliminary.

Source: Output based on data from the Bureau of the Census, 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 46. 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.....	132.1	135.7	(123.4)	131.4	133.0	127.6
1974 ^{4/}	124.8	126.6	(120.1)	124.9	125.2	124.0
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	5.5	5.9	(4.5)	5.6	5.9	4.6
1969-74.....	4.8	4.5	(5.4)	4.1	3.7	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/} 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 47. PETROLEUM REFINING SIC 2911
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	30.9	(2/)	103.3	(2/)	94.9	107.5	64.2
1947.....	44.8	142.9	156.5	(105.8)	136.7	150.6	102.6
1948.....	49.3	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	47.9	137.3	151.2	(99.9)	135.1	150.4	97.9
1950.....	52.0	133.3	142.1	(109.6)	130.5	139.7	107.7
1951.....	58.9	144.7	153.2	(121.8)	141.9	151.1	119.3
1952.....	60.2	144.3	150.9	(126.4)	143.6	151.7	123.7
1953.....	63.3	148.5	154.6	(131.7)	149.6	157.6	129.8
1954.....	63.4	141.9	147.0	(127.7)	143.6	150.6	126.1
1955.....	68.6	140.4	145.8	(125.3)	141.4	148.2	124.6
1956.....	73.0	143.4	148.8	(128.3)	144.3	151.1	127.1
1957.....	73.2	143.4	146.6	(134.1)	144.3	148.9	133.0
1958.....	71.9	134.2	136.9	(126.6)	136.9	141.4	125.7
1959.....	76.3	126.8	129.2	(119.9)	128.6	132.4	119.1
1960.....	78.7	125.5	126.8	(121.6)	126.5	128.6	120.8
1961.....	80.6	119.4	120.1	(117.0)	120.6	122.1	116.8
1962.....	84.0	114.3	114.3	(113.7)	115.3	116.1	113.0
1963.....	86.2	109.0	109.8	(107.1)	110.9	112.7	106.4
1964.....	88.7	106.3	106.9	(104.6)	106.7	107.9	103.5
1965.....	91.2	100.8	101.4	(99.0)	101.9	103.2	98.4
1966.....	95.9	98.2	98.8	(96.4)	98.9	99.9	96.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.6	101.2	100.5	(103.0)	100.4	99.7	101.9
1969.....	105.4	100.1	96.6	(109.3)	96.5	94.4	101.6
1970.....	107.3	102.4	100.7	(106.7)	100.9	99.7	103.9
1971.....	110.2	100.6	98.1	(107.2)	100.0	98.3	104.2
1972.....	114.5	95.0	93.9	(97.9)	94.5	94.2	95.2
1973.....	120.6	91.3	88.9	(97.7)	91.8	90.7	94.5
1974 ^{3/}	118.4	94.9	93.5	(98.6)	94.8	94.6	95.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	3.3	-2.1	-2.5	(-1.2)	-2.2	-2.5	-1.3
1969-74.....	2.8	-1.9	-1.6	(-2.5)	-1.2	-0.9	-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/} 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 48. 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.....	117.0	117.0	(117.2)	119.8	119.7	119.9
1974 ^{4/}	120.0	119.9	(120.8)	121.0	120.2	123.6
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	4.0	4.3	(3.0)	4.1	4.4	3.0
1969-74.....	3.1	3.1	(3.2)	2.2	2.0	2.6

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

^{2/} 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, 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 49. TIRES AND INNER TUBES SIC 3011
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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.....	83.7	94.9	96.5	(89.6)	92.0	92.8	89.1
1964.....	94.5	98.2	100.1	(92.1)	92.6	93.0	91.3
1965.....	100.3	102.1	103.7	(96.7)	95.6	95.5	96.2
1966.....	107.6	107.3	109.5	(100.0)	100.4	100.5	100.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	121.6	113.7	115.0	(109.2)	105.9	106.2	105.2
1969.....	124.2	120.2	122.0	(114.1)	110.9	111.3	109.4
1970.....	117.7	111.1	109.2	(117.7)	108.5	107.4	112.2
1971.....	132.4	116.1	115.5	(118.2)	113.1	112.7	114.1
1972.....	144.4	122.2	123.7	(116.9)	116.0	116.4	114.6
1973.....	148.1	126.6	126.6	(126.4)	123.6	123.7	123.5
1974 ^{3/}	152.7	127.2	127.4	(126.4)	126.2	127.0	123.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	4.6	0.5	0.3	(1.5)	0.5	0.2	1.6
1969-74.....	5.3	2.1	2.1	(2.1)	3.1	3.2	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 Rubber Manufacturers Association, 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 50. FOOTWEAR SIC 314
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.....	70.6	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.....	103.2	104.9	(89.2)	104.4	106.0	91.8
1973.....	102.0	104.2	(85.1)	101.7	103.4	88.1
1974 ^{5/}	100.0	102.8	(79.7)	97.2	99.2	82.3
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	1.0	1.1	(0.5)	1.2	1.2	0.5
1969-74.....	0.2	0.6	(-2.5)	0.2	0.4	-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/} 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, 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 51. FOOTWEAR SIC 314
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	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	84.5	83.1	(97.8)	83.5	82.3	95.0
1973.....	81.9	80.3	78.6	(96.2)	80.5	79.2	93.0
1974 ^{4/}	73.7	73.7	71.7	(92.5)	75.8	74.3	89.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	-0.2	-1.2	-1.2	(-0.7)	-1.3	-1.4	-0.7
1969-74.....	-4.7	-4.9	-5.2	(-2.3)	-4.8	-5.1	-2.7

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

^{2/} 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, 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 52. GLASS CONTAINERS SIC 3221
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/)	59.7	(3/)	55.9	56.7	49.8
1947.....	77.4	77.4	(77.1)	80.2	80.3	79.9
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	70.6	69.9	(76.1)	71.9	71.1	78.1
1950.....	78.5	77.4	(88.9)	79.3	78.2	90.8
1951.....	75.6	74.6	(84.4)	75.9	74.7	86.4
1952.....	74.8	74.0	(82.6)	75.3	74.3	84.7
1953.....	79.2	79.1	(80.4)	78.4	78.1	82.0
1954.....	78.4	78.5	(77.6)	77.8	77.6	78.9
1955.....	81.6	81.2	(84.4)	81.9	81.4	85.3
1956.....	81.8	81.5	(84.3)	82.9	82.5	85.4
1957.....	81.5	81.4	(82.5)	81.7	81.5	83.5
1958.....	78.7	79.2	(74.1)	78.7	79.2	75.1
1959.....	83.6	83.8	(81.8)	82.3	82.3	82.7
1960.....	81.6	81.8	(79.4)	81.5	81.7	80.2
1961.....	83.2	83.1	(82.9)	82.3	82.2	83.4
1962.....	86.3	86.5	(84.0)	86.1	86.3	84.6
1963.....	89.4	89.3	(89.2)	89.1	89.0	89.8
1964.....	91.8	91.9	(90.9)	92.4	92.5	92.0
1965.....	97.6	97.7	(95.9)	96.7	96.7	96.6
1966.....	97.4	97.4	(97.2)	97.2	97.1	97.5
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.2	106.7	(94.2)	102.6	103.6	95.7
1969.....	108.5	109.5	(99.9)	106.4	106.7	104.1
1970.....	106.1	106.8	(100.1)	105.3	105.1	107.0
1971.....	107.8	109.3	(96.1)	106.4	107.0	101.2
1972.....	107.7	108.9	(98.1)	107.0	107.6	101.6
1973.....	112.5	114.5	(98.2)	109.8	110.8	102.1
1974 ^{4/}	117.4	118.8	(106.2)	113.3	113.6	110.4
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	1.9	2.0	(1.1)	1.8	1.8	1.2
1969-74.....	1.7	1.8	(0.8)	1.3	1.4	0.5

^{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.

Source: Output based on data from 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 53. GLASS CONTAINERS SIC 3221
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	24.6	(2/)	41.2	(2/)	44.0	43.4	49.4
1947.....	56.7	73.3	73.3	(73.5)	70.7	70.6	71.0
1948.....	47.7	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	43.4	61.5	62.1	(57.0)	60.4	61.0	55.6
1950.....	50.3	64.1	65.0	(56.6)	63.4	64.3	55.4
1951.....	54.7	72.4	73.3	(64.8)	72.1	73.2	63.3
1952.....	53.7	71.8	72.6	(65.0)	71.3	72.3	63.4
1953.....	59.5	75.1	75.2	(74.0)	75.9	76.2	72.6
1954.....	57.6	73.5	73.4	(74.2)	74.0	74.2	73.0
1955.....	62.7	76.8	77.2	(74.3)	76.6	77.0	73.5
1956.....	64.3	78.6	78.9	(76.3)	77.6	77.9	75.3
1957.....	66.4	81.5	81.6	(80.5)	81.3	81.5	79.5
1958.....	64.8	82.3	81.8	(87.4)	82.3	81.8	86.3
1959.....	69.4	83.0	82.8	(84.8)	84.3	84.3	83.9
1960.....	71.5	87.6	87.4	(90.0)	87.7	87.5	89.1
1961.....	74.2	89.2	89.3	(89.5)	90.2	90.3	89.0
1962.....	77.5	89.8	89.6	(92.3)	90.0	89.8	91.6
1963.....	80.1	89.6	89.7	(89.8)	89.9	90.0	89.2
1964.....	83.7	91.2	91.1	(92.1)	90.6	90.5	91.0
1965.....	89.2	91.4	91.3	(93.0)	92.2	92.2	92.3
1966.....	93.9	96.4	96.4	(96.6)	96.6	96.7	96.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	98.3	93.4	92.1	(104.3)	95.8	94.9	102.7
1969.....	114.1	105.2	104.2	(114.2)	107.2	106.9	109.6
1970.....	117.3	110.6	109.8	(117.2)	111.4	111.6	109.6
1971.....	115.1	106.8	105.3	(119.8)	108.2	107.6	113.7
1972.....	116.9	108.5	107.3	(119.2)	109.3	108.6	115.1
1973.....	120.3	106.9	105.1	(122.5)	109.6	108.6	117.8
1974 ^{3/}	119.5	101.8	100.6	(112.5)	105.5	105.2	108.2
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	3.9	2.0	1.9	(2.8)	2.1	2.0	2.7
1969-74.....	0.9	-0.7	-0.8	(0.2)	-0.3	-0.4	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, 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 54. HYDRAULIC CEMENT SIC 3241
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>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(4/)	40.0	(4/)	41.6	39.5	52.6
1947.....	41.5	38.0	(69.1)	45.0	41.3	71.0
1948.....	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
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.....	123.3	122.5	(126.9)	126.1	125.0	130.6
1973.....	128.8	128.8	(128.7)	131.9	131.8	132.7
1974 <u>5/</u>	115.3	115.3	(115.6)	117.4	116.9	119.2
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	4.3	4.7	(2.0)	4.1	4.5	2.1
1969-74.....	1.8	1.7	(2.0)	1.6	1.6	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/ Output series revised to reflect changes in the adjustment for cement shipped in containers.

3/ 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.

4/ Not available.

5/ 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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 55. HYDRAULIC CEMENT SIC 3241
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	36.1	(3/)	90.2	(3/)	86.8	91.3	68.6
1947.....	55.7	134.1	146.4	(80.6)	123.7	134.8	78.5
1948.....	61.0	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
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	94.4	95.0	(91.7)	92.3	93.1	89.1
1973.....	120.2	93.3	93.3	(93.4)	91.1	91.2	90.6
1974 4/.....	108.0	93.7	93.7	(93.4)	92.0	92.4	90.6
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	2.2	-2.0	-2.4	(0.2)	-1.9	-2.3	0.1
1969-74.....	1.4	-0.4	-0.3	(-0.6)	-0.2	-0.2	-0.1

1/ Output series revised to reflect changes in the adjustment for cement shipped in containers.

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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 56. STRUCTURAL CLAY PRODUCTS SIC 325
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.....	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.....	127.1	129.0	(118.0)	128.3	129.6	121.9
1973.....	130.3	130.0	(131.6)	130.7	129.7	136.5
1974 ^{3/}	125.8	126.9	(120.7)	124.4	124.3	125.0
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	3.3	3.6	(1.4)	3.4	3.8	1.7
1969-74.....	3.7	3.2	(6.0)	3.2	2.7	5.6

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

^{2/} 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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 57. STRUCTURAL CLAY PRODUCTS SIC 325
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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.....	99.9	88.6	84.9	(107.7)	87.4	84.6	101.0
1971.....	103.5	84.3	80.6	(103.1)	83.1	80.0	98.1
1972.....	110.2	86.7	85.4	(93.4)	85.9	85.0	90.4
1973.....	111.5	85.6	85.8	(84.7)	85.3	86.0	81.7
1974 ^{2/}	103.4	82.2	81.5	(85.7)	83.1	83.2	82.7
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	0.6	-2.6	-2.9	(-0.8)	-2.7	-3.0	-1.1
1969-74.....	0.5	-3.1	-2.6	(-5.1)	-2.6	-2.1	-4.8

^{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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 58. CLAY CONSTRUCTION PRODUCTS SIC 3251,3253,3259
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.....	76.3	74.8	(85.5)	74.7	72.7	86.2
1959.....	81.5	80.0	(90.4)	81.3	79.6	91.1
1960.....	84.4	83.2	(91.4)	83.0	81.6	91.6
1961.....	86.6	85.1	(96.6)	85.2	83.3	96.6
1962.....	93.5	91.7	(105.3)	93.0	90.8	105.8
1963.....	89.3	88.0	(97.5)	89.3	87.8	97.7
1964.....	95.5	95.1	(98.1)	98.1	98.0	98.7
1965.....	97.7	96.6	(104.1)	97.8	96.6	104.5
1966.....	98.7	97.4	(107.0)	99.8	98.5	107.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.2	107.1	(107.5)	107.7	107.5	108.9
1969.....	106.0	106.5	(104.1)	107.5	107.4	108.2
1970.....	113.5	117.0	(96.8)	114.3	116.6	103.3
1971.....	126.7	130.3	(109.5)	128.2	131.3	115.2
1972.....	130.4	130.7	(128.3)	130.9	130.4	133.1
1973.....	132.1	131.7	(134.1)	131.1	129.6	139.0
1974 <u>3/</u>	124.3	125.7	(116.6)	120.7	120.7	120.7
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	3.3	3.6	(2.0)	3.4	3.6	2.3
1969-74.....	3.7	3.5	(5.0)	2.9	2.6	4.6

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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 59. CLAY CONSTRUCTION PRODUCTS SIC 3251,3253,3259
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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.....	110.8	83.9	84.1	(82.6)	84.5	85.5	79.7
1974 <u>2/</u>	97.8	78.7	77.8	(83.9)	81.0	81.0	81.0
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	0.1	-3.1	-3.4	(-1.8)	-3.2	-3.4	-2.1
1969-74.....	0.3	-3.3	-3.1	(-4.5)	-2.6	-2.3	-4.2

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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 60. CLAY REFRACTORIES SIC 3255
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.....	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.....	114.7	122.5	(91.1)	118.8	126.6	95.2
1973.....	122.9	122.7	(124.3)	129.1	129.1	129.2
1974 <u>3/</u>	128.0	126.4	(134.5)	134.8	133.7	139.9
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	3.1	3.9	(0.1)	3.8	4.6	0.4
1969-74.....	3.0	1.7	(8.2)	3.6	2.5	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, 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 61. CLAY REFRACTORIES SIC 3255
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
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	92.9	87.0	(117.0)	89.7	84.2	112.0
1973.....	113.7	92.5	92.7	(91.5)	88.1	88.1	88.0
1974 ^{2/}	123.1	96.2	97.4	(91.5)	91.3	92.1	88.0
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	3.0	-0.1	-0.8	(2.9)	-0.8	-1.5	2.6
1969-74.....	0.9	-2.1	-0.8	(-6.8)	-2.7	-1.6	-6.5

^{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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 62. CONCRETE PRODUCTS SIC 3271,3272
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>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	44.1	39.1	(91.5)	46.4	40.3	94.6
1948.....	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
1949.....	50.4	47.7	(66.8)	52.4	49.0	68.3
1950.....	56.6	55.0	(65.9)	58.8	56.6	67.1
1951.....	59.5	57.8	(69.6)	63.9	61.9	71.2
1952.....	64.0	61.6	(78.0)	67.5	64.6	79.8
1953.....	65.7	63.5	(78.2)	67.0	64.0	79.4
1954.....	67.3	67.9	(67.5)	67.8	67.7	68.5
1955.....	71.3	71.3	(73.8)	71.3	70.4	74.4
1956.....	77.7	77.9	(80.0)	79.1	78.7	80.8
1957.....	76.1	77.1	(75.1)	76.6	76.8	75.9
1958.....	75.0	76.8	(71.0)	74.0	74.7	71.7
1959.....	76.2	75.5	(82.0)	77.8	76.4	82.7
1960.....	73.0	72.0	(79.6)	76.7	75.7	80.1
1961.....	74.5	73.9	(79.3)	78.4	78.1	79.6
1962.....	75.9	75.1	(82.1)	80.5	79.9	82.6
1963.....	82.2	83.5	(80.5)	84.4	85.7	80.9
1964.....	87.1	89.0	(83.2)	89.9	91.9	83.9
1965.....	90.5	92.1	(88.0)	91.8	92.8	88.4
1966.....	95.9	99.4	(88.1)	95.5	98.0	88.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.0	108.5	(106.7)	109.0	109.2	108.3
1969.....	106.8	107.8	(103.3)	109.5	110.0	107.7
1970.....	104.4	105.3	(101.3)	107.1	106.7	108.4
1971.....	111.7	113.9	(103.9)	111.4	111.9	109.6
1972.....	113.7	116.3	(105.0)	113.6	115.1	108.7
1973 ^{5/}	114.5	117.7	(104.1)	115.2	117.7	107.9
AVERAGE ANNUAL RATES (PERCENT)						
1950-73....	3.0	3.2	(2.0)	2.9	3.1	2.1
1969-73....	2.3	2.8	(0.5)	1.6	2.1	0.1

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/ Output series revised beginning in 1963 to reflect changes in the adjustment to census levels.

3/ 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.

4/ Not available.

5/ Preliminary.

Source: Output, 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 63. CONCRETE PRODUCTS SIC 3271,3272
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	27.9	63.2	71.3	(30.5)	60.1	69.2	29.5
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
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)	116.0	114.5	121.2
1973 ^{4/}	138.6	121.1	117.8	(133.2)	120.3	117.8	128.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-73.....	4.6	1.6	1.4	(2.6)	1.7	1.5	2.5
1969-73.....	5.7	3.3	2.8	(5.2)	4.0	3.5	5.6

1/ Output series revised beginning in 1963 to reflect changes in the adjustment to census levels.

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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 64. 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 <u>1</u> /.....	109.0	105.4	122.3	112.2	116.0
	AVERAGE ANNUAL RATES (PERCENT)				
1958-63.....	2.0	1.8	3.7	1.6	1.8
1969-73.....	2.9	1.7	5.9	2.9	4.1

1/ Preliminary.

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

TABLE 65. 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.....	77.9	78.4	(76.0)	73.8	73.1	76.5
1959.....	87.5	87.7	(86.7)	87.4	87.4	87.3
1960.....	82.3	82.3	(82.4)	79.0	78.0	82.7
1961.....	84.9	85.4	(83.0)	82.7	82.5	83.2
1962.....	89.2	89.6	(87.9)	87.4	87.2	87.9
1963.....	93.2	92.1	(98.1)	93.2	91.9	98.1
1964.....	97.2	94.8	(108.6)	99.2	97.0	108.6
1965.....	101.1	98.7	(112.9)	103.3	101.0	112.9
1966.....	103.2	101.3	(111.6)	104.8	103.1	111.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	103.5	104.7	(98.8)	105.8	106.5	102.6
1969.....	104.0	104.8	(100.8)	107.0	107.6	104.7
1970.....	101.1	102.8	(95.0)	101.5	102.1	98.7
1971.....	104.9	107.3	(96.3)	104.9	106.3	99.5
1972.....	110.9	112.2	(106.3)	113.7	114.3	111.1
1973.....	123.6	123.5	(123.9)	128.3	128.0	129.7
1974 ^{3/}	123.2	123.9	(120.1)	127.0	127.4	125.4
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	1.8	2.2	(0.1)	2.0	2.3	0.3
1969-74.....	4.4	4.2	(5.2)	4.8	4.7	5.4

^{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 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, U.S. Department of Labor.

TABLE 66. STEEL SIC 331
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	70.8	100.7	109.4	(65.3)	103.2	112.8	64.3
1948.....	74.5	105.4	114.5	(68.4)	106.8	116.6	67.4
1949.....	65.5	92.1	98.1	(67.1)	96.0	103.5	66.3
1950.....	82.8	105.7	114.2	(70.5)	106.1	115.2	69.7
1951.....	90.0	114.3	123.7	(75.7)	112.4	121.8	75.0
1952.....	79.3	100.1	105.7	(77.4)	100.4	106.3	76.7
1953.....	93.2	115.1	122.6	(84.7)	114.2	121.8	84.1
1954.....	74.6	96.6	100.7	(79.6)	101.6	107.2	79.1
1955.....	98.4	112.1	119.4	(82.0)	111.2	118.7	81.5
1956.....	96.8	112.0	117.6	(89.0)	111.2	116.9	88.5
1957.....	93.4	110.8	114.5	(96.0)	113.3	117.8	95.3
1958.....	69.8	89.6	89.0	(91.8)	94.6	95.5	91.2
1959.....	80.8	92.3	92.1	(93.2)	92.4	92.5	92.6
1960.....	81.0	98.4	98.4	(98.3)	102.5	103.8	97.9
1961.....	77.5	91.3	90.8	(93.4)	93.7	93.9	93.2
1962.....	81.5	91.4	91.0	(92.7)	93.3	93.5	92.7
1963.....	86.5	92.8	93.9	(88.2)	92.8	94.1	88.2
1964.....	98.2	101.0	103.6	(90.4)	99.0	101.2	90.4
1965.....	106.8	105.6	108.2	(94.6)	103.4	105.7	94.6
1966.....	107.5	104.2	106.1	(96.3)	102.6	104.3	96.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.9	102.3	101.1	(107.2)	100.1	99.4	103.2
1969.....	108.5	104.3	103.5	(107.6)	101.4	100.8	103.6
1970.....	100.4	99.3	97.7	(105.7)	98.9	98.3	101.7
1971.....	95.5	91.0	89.0	(99.2)	91.0	89.8	96.0
1972.....	102.4	92.3	91.3	(96.3)	90.1	89.6	92.2
1973.....	121.9	98.6	98.7	(98.4)	95.0	95.2	94.0
1974 ^{2/}	121.8	98.9	98.3	(101.4)	95.9	95.6	97.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	1.4	-0.4	-0.8	(1.3)	-0.6	-0.9	1.1
1969-74.....	3.6	-0.8	-0.6	(-1.5)	-1.2	-1.0	-1.7

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

^{2/} Preliminary.

Source: Output based on data from the 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, U.S. Department of Labor.

TABLE 67. GRAY IRON FOUNDRIES SIC 3321
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1954.....	78.2	77.2	(87.2)	75.5	73.9	87.7
1955.....	84.3	82.3	(101.7)	86.0	84.1	101.8
1956.....	83.8	82.6	(92.2)	83.3	81.9	92.6
1957.....	81.3	81.3	(81.6)	77.4	76.7	81.9
1958.....	84.3	86.4	(72.9)	77.8	78.6	73.1
1959.....	87.1	87.2	(87.2)	85.6	85.4	87.3
1960.....	86.6	87.9	(78.5)	82.2	82.7	78.8
1961.....	88.7	90.4	(79.0)	83.3	84.0	79.1
1962.....	92.2	92.8	(88.4)	90.4	90.6	89.0
1963.....	94.1	94.1	(95.0)	95.3	95.2	95.5
1964.....	100.1	99.0	(108.1)	105.1	104.7	109.2
1965.....	104.9	103.9	(113.4)	111.1	110.5	114.1
1966.....	105.6	104.7	(112.8)	110.0	109.6	113.0
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.1	106.2	(105.1)	109.0	109.1	108.7
1969.....	111.4	111.3	(112.0)	114.5	114.4	115.1
1970.....	105.8	107.4	(95.8)	103.9	104.8	98.3
1971.....	113.0	115.4	(99.1)	111.3	113.1	101.6
1972.....	118.9	120.3	(110.0)	121.8	123.4	112.3
1973.....	124.7	125.6	(118.8)	127.9	128.8	121.7
1974 <u>3/</u>	123.3	125.4	(111.3)	122.2	123.7	114.2
	AVERAGE ANNUAL RATES (PERCENT)					
1954-74.....	2.3	2.4	(1.6)	2.6	2.7	1.7
1969-74.....	3.1	3.2	(2.1)	3.0	3.2	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, 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 68. GRAY IRON FOUNDRIES SIC 3321
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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.....	96.3	96.2	97.3	(89.1)	91.6	92.0	88.2
1965.....	108.5	103.4	104.4	(95.7)	97.7	98.2	95.1
1966.....	112.2	106.3	107.2	(99.5)	102.0	102.4	99.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.5	101.3	101.2	(102.3)	98.6	98.5	98.9
1969.....	119.4	107.2	107.3	(106.6)	104.3	104.4	103.7
1970.....	106.2	100.4	98.9	(110.9)	102.2	101.3	108.0
1971.....	107.0	94.7	92.7	(108.0)	96.1	94.6	105.3
1972.....	122.0	102.6	101.4	(110.9)	100.2	98.9	108.6
1973.....	141.2	113.2	112.4	(118.9)	110.4	109.6	116.0
1974 ^{2/}	137.4	111.4	109.6	(123.4)	112.4	111.1	120.3
AVERAGE ANNUAL RATES (PERCENT)							
1954-74.....	3.2	0.9	0.8	(1.6)	0.7	0.5	1.5
1969-74.....	4.9	1.8	1.7	(2.8)	1.9	1.7	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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 69. 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.....	106.1	109.3	(91.4)	103.6	106.0	93.2
1973.....	109.0	111.1	(99.1)	108.6	110.1	101.3
1974 ^{3/}	109.1	110.3	(103.2)	109.7	110.5	106.0
	AVERAGE ANNUAL RATES (PERCENT)					
1954-74.....	1.4	1.5	(0.7)	1.5	1.7	0.8
1969-74.....	2.6	2.6	(2.5)	2.7	2.7	2.5

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

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

^{3/} Preliminary.

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

TABLE 70. STEEL FOUNDRIES SIC 3324,3325
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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	81.8	79.4	(95.0)	83.8	81.9	93.1
1973.....	95.2	87.3	85.7	(96.1)	87.7	86.5	94.0
1974 ^{2/}	105.0	96.2	95.2	(101.7)	95.7	95.0	99.1
AVERAGE ANNUAL RATES (PERCENT)							
1954-74.....	2.2	0.8	0.7	(1.4)	0.6	0.5	1.3
1969-74.....	2.0	-0.5	-0.6	(-0.5)	-0.6	-0.7	-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, 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 71. 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	136.3	(161.0)	138.2	132.5	164.5
1974 ^{4/}	124.8	123.5	(130.1)	122.0	119.3	133.5
AVERAGE ANNUAL RATES (PERCENT)						
1950-74.....	2.1	2.2	(1.1)	1.9	2.0	1.1
1969-74.....	2.4	3.2	(-1.4)	1.8	2.4	-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/} 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 72. PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	83.8	(2/)	136.0	(2/)	(2/)	136.1	(2/)
1947.....	107.4	151.3	169.5	(77.3)	141.6	159.2	75.4
1948.....	105.1	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	102.4	137.5	147.8	(95.5)	133.9	144.6	94.3
1950.....	114.7	139.2	151.3	(89.9)	134.3	146.4	88.8
1951.....	113.7	135.7	145.8	(94.7)	129.4	139.0	93.3
1952.....	115.6	135.2	145.4	(93.9)	128.5	138.2	92.5
1953.....	117.5	138.0	149.5	(90.8)	131.3	142.4	90.0
1954.....	108.2	128.2	134.1	(104.0)	130.4	137.6	103.3
1955.....	123.1	130.8	139.0	(97.9)	129.5	138.0	97.9
1956.....	133.6	139.9	149.9	(99.1)	136.8	147.0	98.8
1957.....	130.4	135.9	143.8	(103.9)	135.6	144.3	103.6
1958.....	112.8	119.9	123.4	(105.5)	121.5	125.7	105.3
1959.....	93.5	105.7	107.9	(96.4)	108.8	112.1	96.3
1960.....	121.4	123.0	128.6	(100.1)	122.6	128.7	99.9
1961.....	123.2	119.4	124.5	(98.4)	118.0	123.3	98.4
1962.....	129.4	118.1	123.5	(95.7)	117.0	122.8	95.2
1963.....	128.1	114.2	120.4	(89.4)	114.3	121.0	89.0
1964.....	134.5	115.4	122.1	(88.1)	116.6	124.5	87.3
1965.....	142.1	118.2	125.6	(88.0)	117.3	125.4	87.5
1966.....	146.1	123.1	130.9	(91.4)	121.0	128.9	91.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	132.0	112.1	117.0	(92.0)	112.1	118.1	89.4
1969.....	160.4	132.9	140.9	(100.0)	132.1	141.2	97.9
1970.....	160.8	137.8	144.3	(111.4)	136.6	144.1	108.5
1971.....	146.2	120.4	122.6	(111.4)	121.0	124.3	108.5
1972.....	157.9	116.8	122.0	(95.5)	117.4	123.7	93.6
1973.....	161.0	114.5	118.1	(100.0)	116.5	121.5	97.9
1974 <u>3/</u>	144.9	116.1	117.3	(111.4)	118.8	121.5	108.5
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	1.4	-0.7	-0.8	(0.3)	-0.5	-0.6	0.2
1969-74.....	-1.2	-3.5	-4.3	(0.2)	-2.9	-3.6	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/ 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 73. PRIMARY ALUMINUM SIC 3334
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.....	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 ^{4/}	110.9	111.1	(109.8)	112.5	112.5	112.5
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	4.2	4.4	(3.2)	4.0	4.1	3.3
1969-74.....	1.6	1.6	(1.7)	1.6	1.6	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/} 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 74. PRIMARY ALUMINUM SIC 3334
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	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 ^{3/}	141.8	127.9	127.6	(129.1)	126.1	126.0	126.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	7.0	2.6	2.4	(3.6)	2.9	2.7	3.5
1969-74.....	4.3	2.7	2.7	(2.5)	2.6	2.6	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 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 75. 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.....	112.6	112.7	(112.4)	117.9	118.6	114.4
1973.....	117.7	117.4	(119.3)	123.6	123.9	122.4
1974 ^{3/}	104.2	107.1	(93.8)	105.4	108.2	96.0
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	2.6	2.7	(2.2)	2.7	2.8	2.4
1969-74.....	0.8	0.8	(0.7)	0.9	0.9	0.7

^{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 based on data from the Bureau of the Census, U.S. Department of Commerce, the Bureau of Domestic Commerce, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor. 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 76. COPPER ROLLING AND DRAWING SIC 3351
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	97.9	97.8	(98.0)	93.5	92.9	96.3
1973.....	122.4	104.0	104.3	(102.6)	99.0	98.8	100.0
1974 ^{2/}	103.1	98.9	96.3	(109.9)	97.8	95.3	107.4
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	2.4	-0.2	-0.4	(0.2)	-0.3	-0.4	(^{3/})
1969-74.....	0.5	-0.3	-0.3	(-0.2)	-0.4	-0.4	-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.

^{3/} Less than .05 percent.

Source: Output based on data from the Bureau of the Census, U.S. Department of Commerce, the Bureau of Domestic Commerce, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor. 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 77. ALUMINUM ROLLING AND DRAWING SIC 3353,3354,3355
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR ^{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.....	140.3	141.2	(136.9)	141.0	141.4	139.5
1973.....	154.4	153.8	(157.2)	156.3	155.1	161.0
1974 ^{3/}	153.4	156.9	(140.2)	151.4	153.6	143.5
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	5.6	5.7	(5.1)	5.4	5.4	5.3
1969-74.....	8.8	8.5	(10.3)	9.1	8.8	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/} Preliminary.

Source: Output based on data from 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 78. ALUMINUM ROLLING AND DRAWING SIC 3353,3354,3355
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	104.1	103.5	(106.7)	103.6	103.3	104.7
1973.....	173.6	112.4	112.9	(110.4)	111.1	111.9	107.8
1974 ^{2/}	164.7	107.4	105.0	(117.5)	108.8	107.2	114.8
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	7.6	1.9	1.8	(2.3)	2.1	2.0	2.1
1969-74.....	9.2	0.4	0.7	(-1.0)	0.1	0.4	-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 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 79. 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.....	59.8	60.1	(58.6)	58.1	57.8	60.4
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	63.1	63.8	(58.1)	62.3	60.7	59.3
1950.....	70.0	70.2	(68.0)	68.3	68.2	69.3
1951.....	69.0	69.4	(66.0)	66.3	66.1	67.2
1952.....	68.8	69.2	(65.8)	67.1	67.1	67.2
1953.....	71.1	71.5	(68.3)	67.2	66.8	69.2
1954.....	73.2	73.7	(70.0)	69.7	69.5	70.7
1955.....	77.5	77.9	(74.5)	73.9	73.8	74.9
1956.....	80.9	81.0	(79.9)	78.1	77.8	80.5
1957.....	79.5	80.0	(75.2)	75.8	75.9	75.8
1958.....	83.4	84.3	(76.7)	78.4	78.7	77.2
1959.....	86.3	86.7	(83.3)	84.0	84.0	83.8
1960.....	88.3	88.8	(83.8)	85.1	85.2	84.2
1961.....	93.2	93.8	(89.3)	90.3	90.4	89.5
1962.....	90.2	90.3	(89.2)	89.7	89.7	89.6
1963.....	89.6	89.9	(86.8)	88.0	88.1	87.2
1964.....	91.5	92.2	(87.1)	91.2	91.9	87.8
1965.....	94.1	95.6	(83.3)	96.2	98.4	83.7
1966.....	96.7	96.7	(96.6)	95.1	94.9	96.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.5	104.6	(104.5)	104.9	105.1	103.1
1969.....	107.1	107.7	(102.9)	105.1	105.3	104.3
1970.....	105.4	106.7	(96.6)	104.2	104.8	101.0
1971.....	105.1	107.0	(92.3)	101.5	102.8	93.4
1972.....	108.0	109.1	(100.5)	105.5	106.8	97.8
1973.....	109.9	110.3	(106.8)	108.2	108.9	104.4
1974 ^{4/}	116.4	116.0	(119.6)	113.6	113.1	116.9
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	2.2	2.2	(2.2)	2.3	2.4	2.1
1969-74.....	1.6	1.4	(3.3)	1.6	1.5	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, 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 80. METAL CANS SIC 3411
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	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.....	125.3	114.0	113.6	(117.3)	115.8	115.1	120.0
1974 ^{3/}	130.0	111.7	112.1	(108.7)	114.4	114.9	111.2
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	3.6	1.4	1.4	(1.4)	1.2	1.2	1.5
1969-74.....	2.4	0.7	0.9	(-0.9)	0.8	0.9	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, 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 81. MAJOR HOUSEHOLD APPLIANCES SIC 3631,2,3,9
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.....	133.6	133.3	(135.2)	135.0	133.8	140.2
1973.....	136.0	135.6	(138.2)	137.0	135.4	143.9
1974 ^{3/}	128.7	130.7	(120.6)	129.0	129.7	125.8
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	5.2	5.0	(6.2)	5.2	4.8	6.4
1969-74.....	4.9	4.9	(5.0)	4.9	4.8	5.2

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

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

^{3/} Preliminary.

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

TABLE 82. MAJOR HOUSEHOLD APPLIANCES SIC 3631,2,3,9
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
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	87.7	87.9	(86.7)	86.8	87.6	83.6
1973.....	128.4	94.4	94.7	(92.9)	93.7	94.8	89.2
1974 ^{2/}	115.7	89.9	88.5	(95.9)	89.7	89.2	92.0
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	5.2	(^{3/})	0.2	(-0.9)	0.1	0.4	-1.1
1969-74.....	2.6	-2.2	-2.1	(-2.3)	-2.1	-2.0	-2.4

^{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.

^{3/} Less than .05 percent.

Source: Output, 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 83. 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> , <u>2/</u>			OUTPUT PER EMPLOYEE <u>1/</u> , <u>2/</u>		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</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	136.2	(116.1)	132.5	135.3	120.5
1973.....	128.4	131.4	(115.9)	127.8	129.2	120.9
1974 <u>4/</u>	116.5	122.6	(93.8)	112.9	116.8	97.7
	AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	4.5	4.5	(4.3)	4.3	4.3	4.5
1969-74.....	4.0	3.7	(5.1)	3.2	2.6	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/ Series revised beginning in 1963 to reflect changes in the adjustment to census levels and the introduction of additional product detail in the output measure.

3/ 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.

4/ Preliminary.

Source: Output, 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 84. RADIO AND TELEVISION RECEIVING SETS SIC 3651
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT 1/	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 2/	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	72.1	(84.6)	74.1	72.6	81.5
1973.....	100.8	78.5	76.7	(87.0)	78.9	78.0	83.4
1974 3/.....	83.4	71.6	68.0	(88.9)	73.9	71.4	85.4
AVERAGE ANNUAL RATES (PERCENT)							
1958-74.....	6.2	1.7	1.6	(1.8)	1.8	1.8	1.6
1969-74.....	0.4	-3.5	-3.2	(-4.6)	-2.7	-2.2	-4.7

1/ Series revised beginning in 1963 to reflect changes in the adjustment to census levels and the introduction of additional product detail in the output measure.

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, U.S. Department of Commerce, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 85. MOTOR VEHICLES AND EQUIPMENT SIC 371
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
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.....	123.9	121.8	(131.3)	129.4	128.3	133.2
1973.....	126.3	123.7	(135.4)	133.6	131.9	139.4
1974 ^{3/}	120.8	121.2	(119.1)	120.2	120.7	118.9
	AVERAGE ANNUAL RATES (PERCENT)					
1957-74.....	3.7	3.6	(3.8)	3.8	3.8	3.9
1969-74.....	3.8	3.7	(4.1)	4.2	4.2	4.3

^{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 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, U.S. Department of Commerce; Bureau of Labor Statistics, U.S. Department of Labor. Employment and hours based on data from the Bureau of Labor Statistics, U.S. Department of Labor; and company records.

TABLE 86. MOTOR VEHICLES AND EQUIPMENT SIC 371
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{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.....	86.8	94.5	96.0	(89.8)	90.9	91.5	88.7
1964.....	89.5	96.4	97.4	(93.1)	92.3	92.5	91.9
1965.....	109.3	110.4	113.8	(99.3)	103.3	105.2	97.2
1966.....	109.7	110.2	112.1	(103.6)	105.7	106.9	101.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	121.6	112.3	114.7	(104.7)	107.1	108.6	102.1
1969.....	121.2	113.9	115.1	(109.8)	111.7	112.9	107.7
1970.....	98.3	96.4	95.2	(100.3)	97.7	96.4	102.2
1971.....	123.4	103.7	104.9	(100.0)	103.3	103.9	101.3
1972.....	136.9	110.5	112.4	(104.3)	105.8	106.7	102.8
1973.....	156.4	123.8	126.4	(115.5)	117.1	118.6	112.2
1974 ^{2/}	131.3	108.7	108.3	(110.2)	109.2	108.8	110.4
AVERAGE ANNUAL RATES (PERCENT)							
1957-74.....	5.9	2.1	2.2	(2.0)	2.0	2.0	1.9
1969-74.....	5.6	1.7	1.8	(1.4)	1.3	1.3	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 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, U.S. Department of Commerce; Bureau of Labor Statistics, U.S. Department of Labor. Employment and hours based on data from the Bureau of Labor Statistics, U.S. Department of Labor; and company records.

TABLE 87. 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/}			OUTPUT PER EMPLOYEE ^{2/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	27.9	27.2	35.2	31.4	30.5	42.3
1947.....	38.3	36.7	60.1	45.2	43.2	72.0
1948.....	37.6	36.1	57.9	44.4	42.5	69.5
1949.....	36.7	35.5	51.1	40.8	39.3	58.6
1950.....	42.0	40.4	60.5	43.5	41.9	64.2
1951.....	44.4	42.7	65.8	45.7	43.8	70.2
1952.....	44.6	43.0	63.3	45.3	43.5	67.3
1953.....	44.8	43.3	62.3	45.1	43.4	66.2
1954.....	46.6	45.4	58.9	46.3	44.9	61.7
1955.....	51.6	50.2	65.2	52.2	50.6	70.7
1956.....	54.0	52.7	67.3	54.6	52.9	73.1
1957.....	54.8	53.7	65.6	54.8	53.3	71.1
1958.....	57.6	57.1	62.3	57.5	56.4	67.4
1959.....	61.2	60.6	66.1	61.3	60.2	71.7
1960.....	63.6	63.2	67.0	63.5	62.5	72.4
1961.....	68.2	68.1	69.0	67.9	67.1	74.3
1962.....	72.6	72.4	74.2	73.0	72.2	80.1
1963.....	77.1	76.9	78.9	78.2	77.3	85.0
1964.....	82.1	81.9	83.8	84.4	83.5	91.1
1965.....	90.8	91.0	89.7	92.9	92.3	97.3
1966.....	97.5	97.6	97.2	99.6	99.2	102.7
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	104.3	104.5	103.1	105.8	106.0	103.6
1969.....	109.2	109.4	107.9	111.1	111.4	107.7
1970.....	110.1	110.3	107.7	112.2	112.9	107.2
1971.....	112.4	113.2	106.5	110.2	110.9	105.2
1972.....	121.4	122.5	113.6	122.4	123.8	111.5
1973.....	131.5	132.3	125.5	132.6	133.8	122.4
1974 ^{3/}	131.2	131.9	125.8	133.3	134.8	122.2
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	5.3	5.5	(3.4)	5.3	5.5	2.9
1969-74.....	4.5	4.5	(3.8)	4.4	4.6	3.2

^{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/} Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 88. RAILROAD TRANSPORTATION-REVENUE TRAFFIC SIC 401 ^{1/}
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	50.5	181.0	185.7	143.6	160.6	165.7	119.5
1947.....	99.6	260.1	271.7	165.8	220.4	230.6	138.3
1948.....	96.1	255.3	266.3	166.1	216.5	226.3	138.3
1949.....	79.6	216.8	224.3	155.9	195.0	202.5	135.9
1950.....	87.1	207.6	215.4	143.9	200.0	208.1	135.6
1951.....	95.6	215.2	223.7	145.3	209.2	218.4	136.1
1952.....	91.2	204.7	212.1	144.1	201.5	209.7	135.5
1953.....	89.4	199.6	206.5	143.5	198.2	206.1	135.0
1954.....	81.2	174.2	178.7	137.9	175.2	180.7	131.5
1955.....	91.0	176.5	181.1	139.5	174.2	179.9	128.8
1956.....	94.1	174.2	178.4	139.8	172.4	177.9	128.8
1957.....	89.6	163.5	166.9	136.6	163.5	168.2	126.1
1958.....	80.1	139.0	140.4	128.6	139.3	141.9	118.8
1959.....	82.9	135.5	136.7	125.4	135.2	137.6	115.6
1960.....	82.2	129.2	130.0	122.7	129.5	131.6	113.5
1961.....	80.8	118.5	118.6	117.1	119.0	120.4	108.7
1962.....	84.7	116.6	117.0	114.2	116.1	117.3	105.8
1963.....	88.1	114.2	114.5	111.7	112.7	113.9	103.6
1964.....	92.9	113.1	113.5	110.9	110.1	111.2	102.0
1965.....	97.8	107.7	107.5	109.0	105.3	106.0	100.5
1966.....	103.1	105.7	105.6	106.1	103.5	103.9	100.4
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	102.5	98.3	98.1	99.4	96.9	96.7	98.9
1969.....	105.4	96.5	96.3	97.7	94.9	94.6	97.9
1970.....	104.5	94.9	94.7	97.0	93.1	92.6	97.5
1971.....	100.6	89.5	88.9	94.5	91.3	90.7	95.6
1972.....	105.5	86.9	86.1	92.9	86.2	85.2	94.6
1973.....	115.5	87.8	87.3	92.0	87.1	86.3	94.4
1974 ^{2/}	116.2	88.6	88.1	92.4	87.2	86.2	95.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	1.1	-4.0	-4.2	(-2.2)	-4.0	-4.2	-1.8
1969-74.....	2.4	-2.0	-2.0	(-1.3)	-1.9	-2.1	-0.7

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

^{2/} Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 89. 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/}			OUTPUT PER EMPLOYEE ^{2/}		
	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	44.1	43.0	55.6	49.8	48.2	66.9
1947.....	44.7	42.8	70.1	52.7	50.4	84.0
1948.....	44.5	42.7	68.4	52.5	50.2	82.1
1949.....	46.9	45.3	65.2	52.2	50.2	74.8
1950.....	51.5	49.7	74.4	53.5	51.4	78.9
1951.....	51.9	49.9	76.9	53.4	51.1	82.1
1952.....	53.5	51.7	76.1	54.4	52.3	80.9
1953.....	55.1	53.2	76.6	55.4	53.3	81.4
1954.....	58.9	57.4	74.4	58.6	56.8	78.0
1955.....	62.3	60.7	78.9	63.1	61.1	85.4
1956.....	63.7	62.2	79.4	64.4	62.4	86.2
1957.....	65.6	64.3	78.6	65.6	63.8	85.1
1958.....	70.6	69.9	76.3	70.4	69.1	82.6
1959.....	73.4	72.7	79.3	73.5	72.2	86.0
1960.....	75.5	75.1	79.5	75.4	74.2	86.0
1961.....	79.4	79.3	80.4	79.1	78.2	86.6
1962.....	82.1	81.8	83.8	82.4	81.6	90.5
1963.....	84.7	84.5	86.6	85.8	84.9	93.3
1964.....	87.5	87.2	89.3	89.9	89.0	97.1
1965.....	92.9	93.0	91.7	95.0	94.3	99.5
1966.....	97.4	97.4	97.0	99.4	99.0	102.5
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	101.8	102.0	100.7	103.3	103.5	101.2
1969.....	103.8	104.0	102.6	105.6	105.9	102.3
1970.....	103.6	103.8	101.3	105.6	106.2	100.8
1971.....	106.7	107.4	101.1	104.6	105.3	99.9
1972.....	113.8	114.9	106.5	114.7	116.1	104.5
1973.....	116.2	116.8	110.9	117.1	118.2	108.1
1974 ^{3/}	113.3	114.0	108.7	115.1	116.5	105.6
	AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	3.7	3.9	(1.8)	3.7	3.9	1.4
1969-74.....	2.4	2.5	(1.8)	2.4	2.6	1.2

^{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/} Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 90. RAILROAD TRANSPORTATION-CAR MILES SIC 401 ^{1/}
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS			EMPLOYMENT		
		ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	ALL EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	79.9	181.0	185.7	143.6	160.6	165.7	119.5
1947.....	116.2	260.1	271.7	165.8	220.4	230.6	138.3
1948.....	113.6	255.3	266.3	166.1	216.5	226.3	138.3
1949.....	101.7	216.8	224.3	155.9	195.0	202.5	135.9
1950.....	107.0	207.6	215.4	143.9	200.0	208.1	135.6
1951.....	111.7	215.2	223.7	145.3	209.2	218.4	136.1
1952.....	109.6	204.7	212.1	144.1	201.5	209.7	135.5
1953.....	109.9	199.6	206.5	143.5	198.2	206.1	135.0
1954.....	102.6	174.2	178.7	137.9	175.2	180.7	131.5
1955.....	110.0	176.5	181.1	139.5	174.2	179.9	128.8
1956.....	111.0	174.2	178.4	139.8	172.4	177.9	128.8
1957.....	107.3	163.5	166.9	136.6	163.5	168.2	126.1
1958.....	98.1	139.0	140.4	128.6	139.3	141.9	118.8
1959.....	99.4	135.5	136.7	125.4	135.2	137.6	115.6
1960.....	97.6	129.2	130.0	122.7	129.5	131.6	113.5
1961.....	94.1	118.5	118.6	117.1	119.0	120.4	108.7
1962.....	95.7	116.6	117.0	114.2	116.1	117.3	105.8
1963.....	96.7	114.2	114.5	111.7	112.7	113.9	103.6
1964.....	99.0	113.1	113.5	110.9	110.1	111.2	102.0
1965.....	100.0	107.7	107.5	109.0	105.3	106.0	100.5
1966.....	102.9	105.7	105.6	106.1	103.5	103.9	100.4
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	100.1	98.3	98.1	99.4	96.9	96.7	98.9
1969.....	100.2	96.5	96.3	97.7	94.9	94.6	97.9
1970.....	98.3	94.9	94.7	97.0	93.1	92.6	97.5
1971.....	95.5	89.5	88.9	94.5	91.3	90.7	95.6
1972.....	98.9	86.9	86.1	92.9	86.2	85.2	94.6
1973.....	102.0	87.8	87.3	92.0	87.1	86.3	94.4
1974 ^{2/}	100.4	88.6	88.1	92.4	87.2	86.2	95.1
AVERAGE ANNUAL RATES (PERCENT)							
1950-74.....	-0.4	-4.0	-4.2	(-2.2)	-4.0	-4.2	-1.8
1969-74.....	0.4	-2.0	-2.0	(-1.3)	-1.9	-2.1	-0.7

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

^{2/} Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 91. 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 <u>2</u> /.....	123.7	151.0	122.1
AVERAGE ANNUAL RATES (PERCENT)			
1954-73.....	2.7	6.2	3.4
1969-73.....	3.8	7.3	3.3

1/ Class I and II common and contract carriers.

2/ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 92. INTERCITY TRUCKING - GENERAL FREIGHT SIC 4213 PT 1/
INDEXES OF OUTPUT PER EMPLOYEE, OUTPUT, AND EMPLOYEES
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEES
1954.....	77.6	50.8	65.5
1955.....	80.1	56.8	70.9
1956.....	81.0	60.0	74.1
1957.....	80.7	62.3	77.2
1958.....	82.1	61.4	74.8
1959.....	87.8	71.2	81.1
1960.....	86.6	70.7	81.6
1961.....	86.6	69.5	80.3
1962.....	89.0	74.7	83.9
1963.....	92.7	79.0	85.2
1964.....	96.8	85.3	88.1
1965.....	104.8	93.6	89.3
1966.....	103.1	103.3	100.2
1967.....	100.0	100.0	100.0
1968.....	105.6	109.5	103.7
1969.....	107.5	115.3	107.3
1970.....	102.3	106.2	103.8
1971.....	108.0	112.8	104.4
1972.....	114.7	124.2	108.3
1973 <u>2</u> /.....	122.3	137.6	112.5
AVERAGE ANNUAL RATES (PERCENT)			
1954-73.....	2.2	5.0	2.7
1969-73.....	3.8	5.2	1.4

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

2/ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 93. 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 <u>1</u> /.....	133.0	153.8	115.6
AVERAGE ANNUAL RATES (PERCENT)			
1950-74.....	6.9	12.9	5.6
1969-74.....	5.0	4.7	- 0.3

1/ Preliminary.

Source: Based on Civil Aeronautics Board data.

TABLE 94. 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 <u>4/</u>	156.4	167.7	155.3	166.5
	AVERAGE ANNUAL RATES (PERCENT)			
1950-73.....	(3/)	(3/)	8.8	(3/)
1969-73.....	8.2	9.3	8.1	9.1

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/ 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, U.S. Department of Labor, and the Interstate Commerce Commission.

TABLE 95. PETROLEUM PIPELINES SIC 4612, 4613
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		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 ^{3/}	134.5	86.0	80.2	86.6	80.8
AVERAGE ANNUAL RATES (PERCENT)					
1950-73.....	6.0	(2/)	(2/)	- 2.6	(2/)
1969-73.....	5.4	- 2.6	- 3.6	- 2.5	- 3.5

^{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, U.S. Department of Labor, and the Interstate Commerce Commission.

TABLE 96. 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.....	36.9	36.7	29.3	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.....	41.1	40.8	35.3	85.8	86.6
1955.....	43.8	44.2	38.7	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.....	55.7	54.4	49.4	88.7	90.8
1959.....	61.8	61.7	54.1	87.5	87.7
1960.....	65.6	66.2	57.9	88.2	87.5
1961.....	71.5	71.6	61.6	86.2	86.0
1962.....	76.4	77.6	66.1	86.5	85.2
1963.....	81.8	83.3	70.8	86.5	85.0
1964.....	85.3	87.2	76.4	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.....	123.3	123.3	146.8	119.1	119.1
1973.....	130.0	130.9	158.8	122.2	121.3
1974 <u>1</u> /.....	139.2	140.4	172.5	123.9	122.9
AVERAGE ANNUAL RATES (PERCENT)					
1951-74.....	6.3	6.4	8.1	1.7	1.6
1969-74.....	5.3	5.2	7.6	2.2	2.3

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, U.S. Department of Labor.

TABLE 97. GAS AND ELECTRIC UTILITIES SIC 491, 492, 493
INDEXES OF OUTPUT PER EMPLOYEE-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER EMPLOYEE-HOUR <u>1/</u>		OUTPUT PER EMPLOYEE <u>1/</u>	
	ALL EMPLOYEES	PRODUCTION WORKERS <u>2/</u>	ALL EMPLOYEES	PRODUCTION WORKERS <u>2/</u>
1939.....	15.8	(3/)	15.1	(3/)
1947.....	26.2	23.8	26.5	24.0
1948.....	27.5	25.1	27.7	25.3
1949.....	28.1	25.8	28.1	25.8
1950.....	31.3	28.9	31.5	29.0
1951.....	34.7	32.0	35.1	32.4
1952.....	37.0	34.3	37.2	34.5
1953.....	39.6	37.1	39.7	37.1
1954.....	42.4	40.0	42.3	39.9
1955.....	47.2	44.9	47.1	44.7
1956.....	51.1	48.8	51.0	48.7
1957.....	53.7	51.5	53.2	51.1
1958.....	56.4	54.4	55.5	53.5
1959.....	61.5	59.7	60.8	59.0
1960.....	65.5	63.8	64.8	63.0
1961.....	69.4	67.9	68.4	66.8
1962.....	74.9	73.5	74.3	72.8
1963.....	79.5	78.6	79.0	78.0
1964.....	85.5	84.8	84.9	84.1
1965.....	89.2	88.5	89.0	88.3
1966.....	95.7	95.3	95.8	95.3
1967.....	100.0	100.0	100.0	100.0
1968.....	107.1	107.0	107.1	107.0
1969.....	113.8	114.4	114.1	114.6
1970.....	117.3	117.9	117.6	118.3
1971.....	123.3	124.6	123.0	124.2
1972.....	128.6	130.1	128.6	130.1
1973.....	131.2	133.5	131.5	133.9
1974 <u>4/</u>	128.9	132.4	128.3	131.8
	AVERAGE ANNUAL RATES (PERCENT)			
1950-74.....	6.4	6.8	6.3	6.8
1969-74.....	2.9	3.3	2.8	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/ 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, U.S. Department of Labor. Employment and hours based on data from the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 98. GAS AND ELECTRIC UTILITIES SIC 491, 492, 493
INDEXES OF OUTPUT, EMPLOYEE-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	EMPLOYEE-HOURS		EMPLOYMENT	
		ALL EMPLOYEES	PRODUCTION WORKERS ^{1/}	ALL EMPLOYEES	PRODUCTION WORKERS ^{1/}
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 ^{3/}	145.9	113.2	110.2	113.7	110.7
AVERAGE ANNUAL RATES (PERCENT)					
1950-74.....	7.3	0.8	0.4	0.9	0.4
1969-74.....	4.6	1.7	1.2	1.8	1.3

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

TABLE 99. 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 <u>2/</u>	133.4	123.0	135.7	101.7	110.3
1974 <u>2/</u>	133.1	120.9	121.0	90.9	100.1
AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	3.7	2.7	4.3	0.5	1.5
1969-74.....	3.6	2.4	1.9	- 1.6	- 0.4

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

2/ Preliminary.

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

TABLE 100. 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)

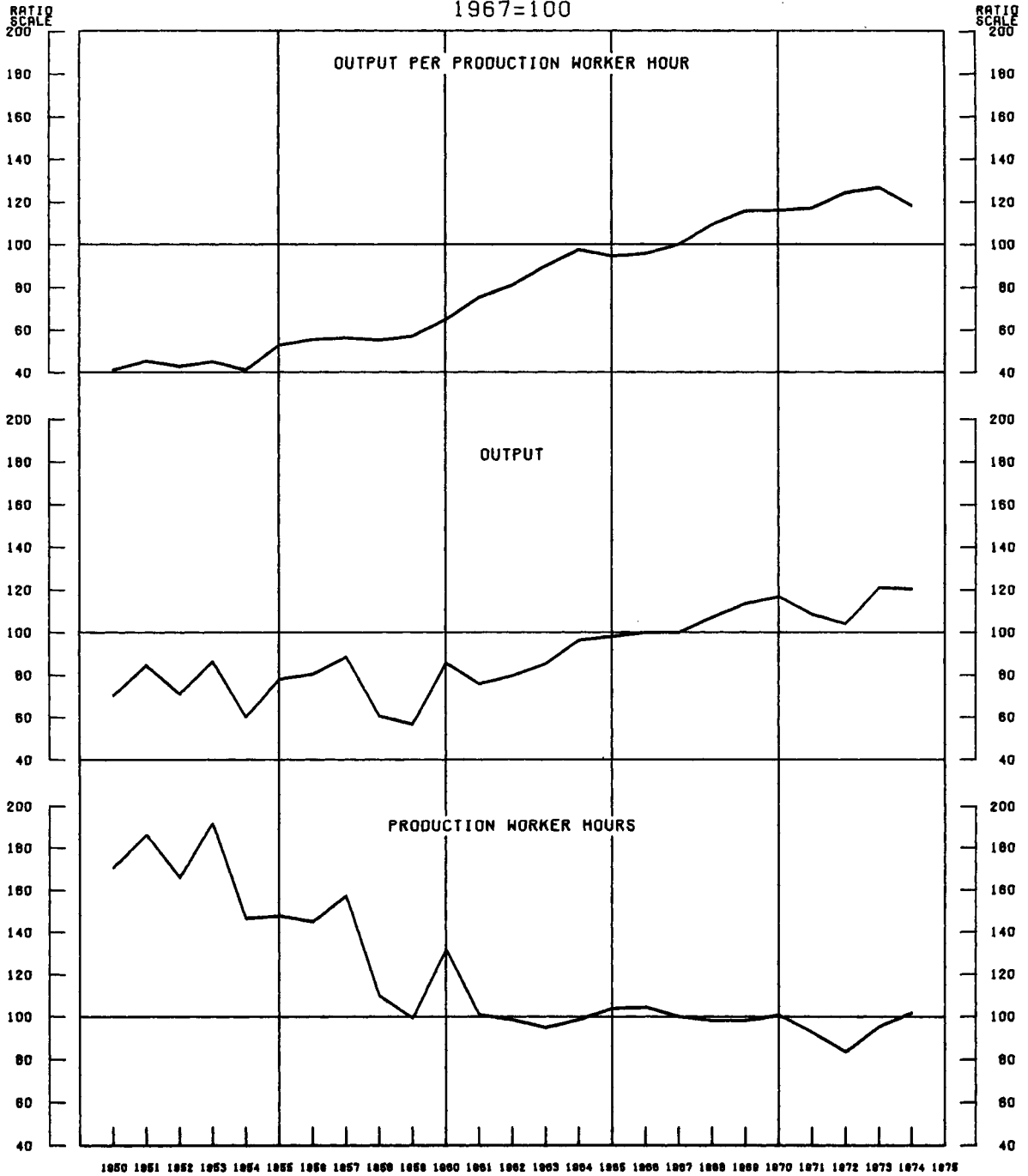
YEAR	OUTPUT PER HOUR OF ALL PERSONS	OUTPUT PER PERSON	OUTPUT	HOURS OF ALL PERSONS	ALL PERSONS
1958.....	76.8	84.0	68.8	89.6	81.9
1959.....	77.8	85.1	71.3	91.7	83.8
1960.....	79.6	86.6	74.4	93.5	85.9
1961.....	77.0	82.9	71.9	93.4	86.7
1962.....	82.4	87.6	77.2	93.7	88.1
1963.....	86.0	91.2	80.8	93.9	88.6
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.....	96.9	95.8	99.2	102.4	103.6
1969.....	98.6	96.0	102.4	103.9	106.7
1970.....	103.9	99.1	107.2	103.2	108.2
1971.....	93.4	87.5	97.0	103.8	110.9
1972.....	108.9	101.3	116.3	106.8	114.8
1973 <u>2/</u>	113.0	103.5	122.9	108.8	118.7
1974 <u>2/</u>	111.4	99.9	122.1	109.6	122.2
AVERAGE ANNUAL RATES (PERCENT)					
1958-74.....	2.5	1.2	3.8	1.2	2.6
1969-74.....	2.9	1.4	4.3	1.3	2.9

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

2/ Preliminary.

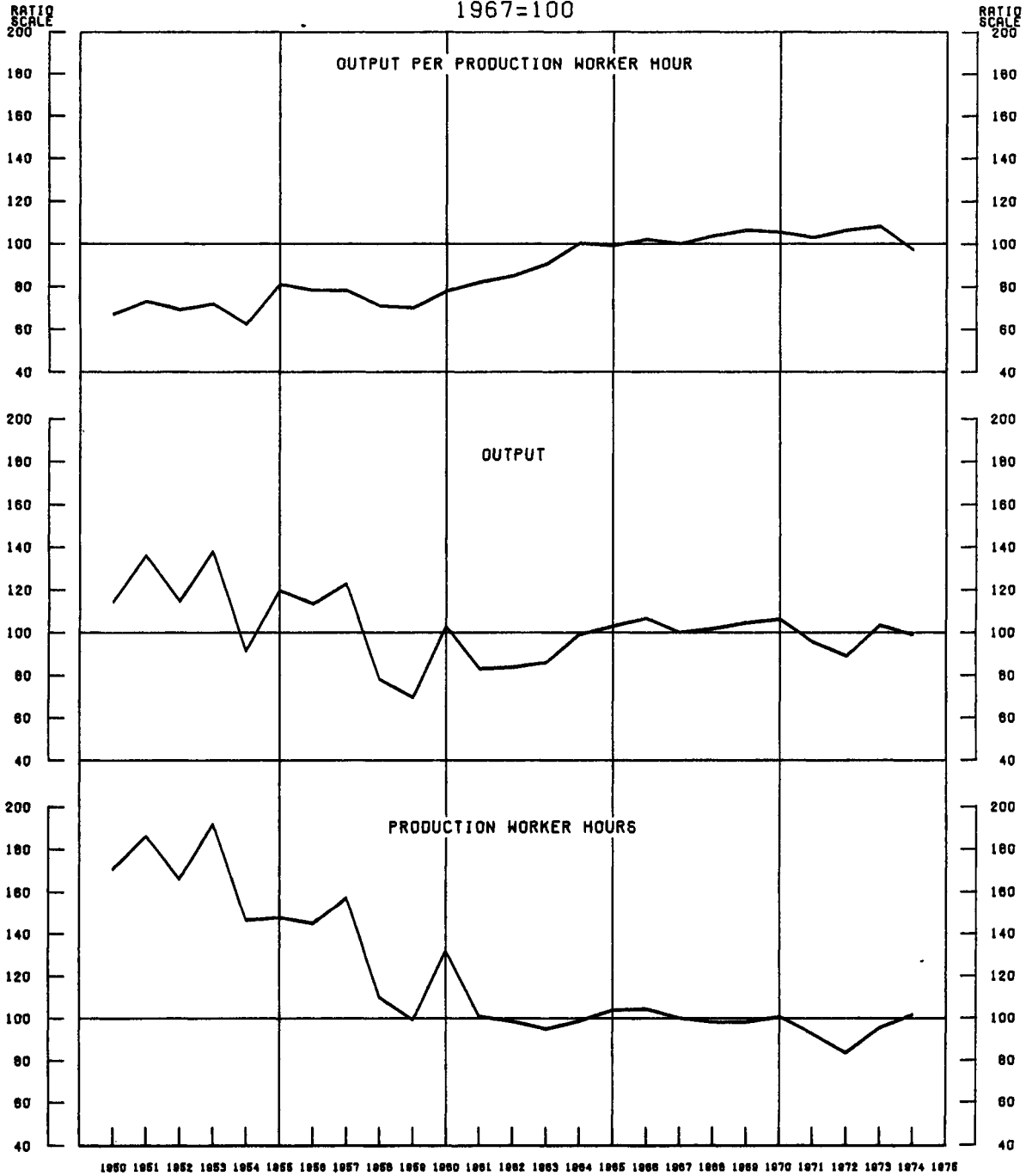
Source: Output, persons, and hours based on data from the Bureau of Labor Statistics, U.S. Department of Labor; Bureau of the Census, U.S. Department of Commerce; and the Internal Revenue Service, U.S. Department of the Treasury.

CHART 2
 IRON MINING, CRUDE ORE (SIC 1011), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



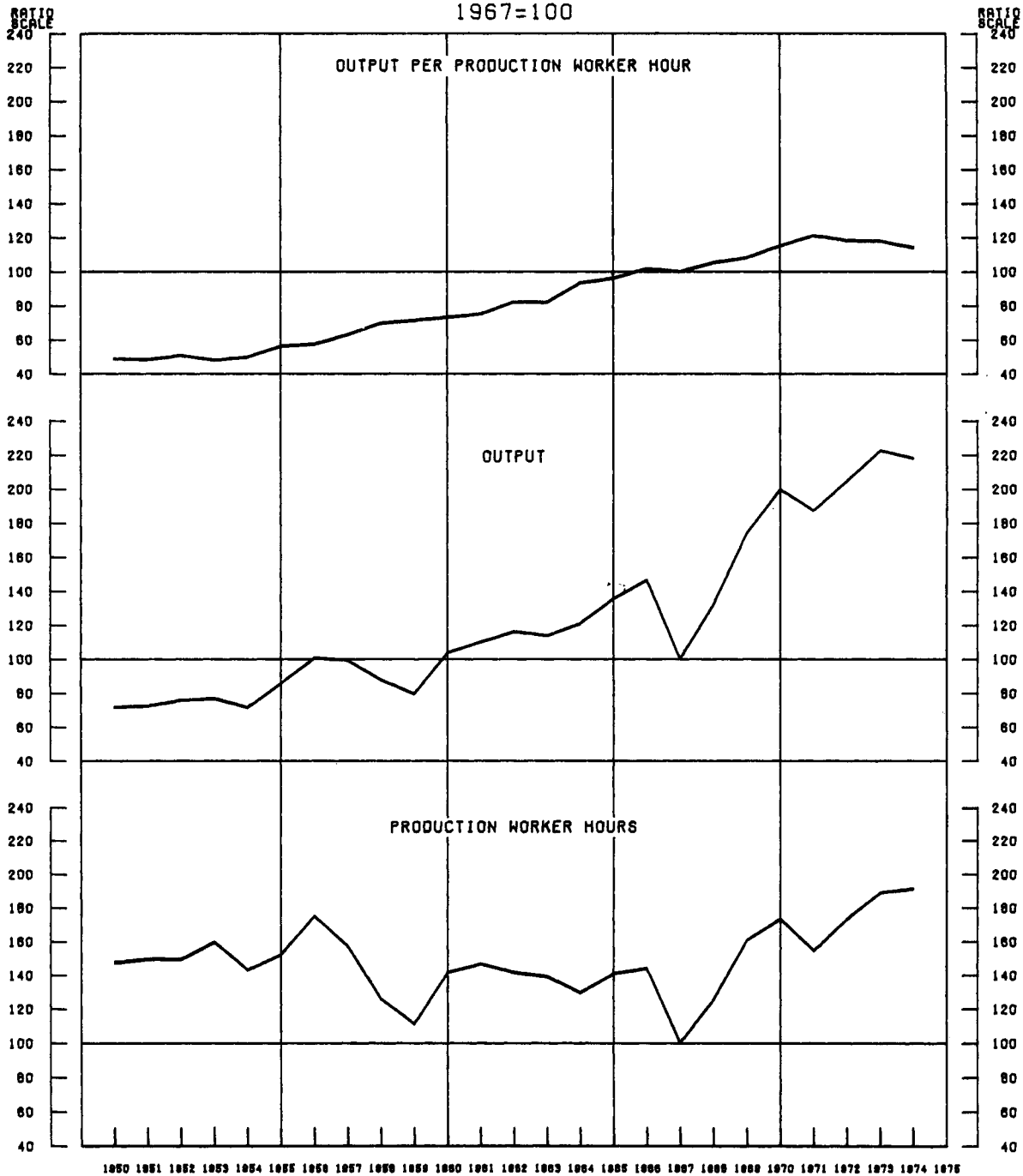
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 3
 IRON MINING, USABLE ORE (SIC 1011), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



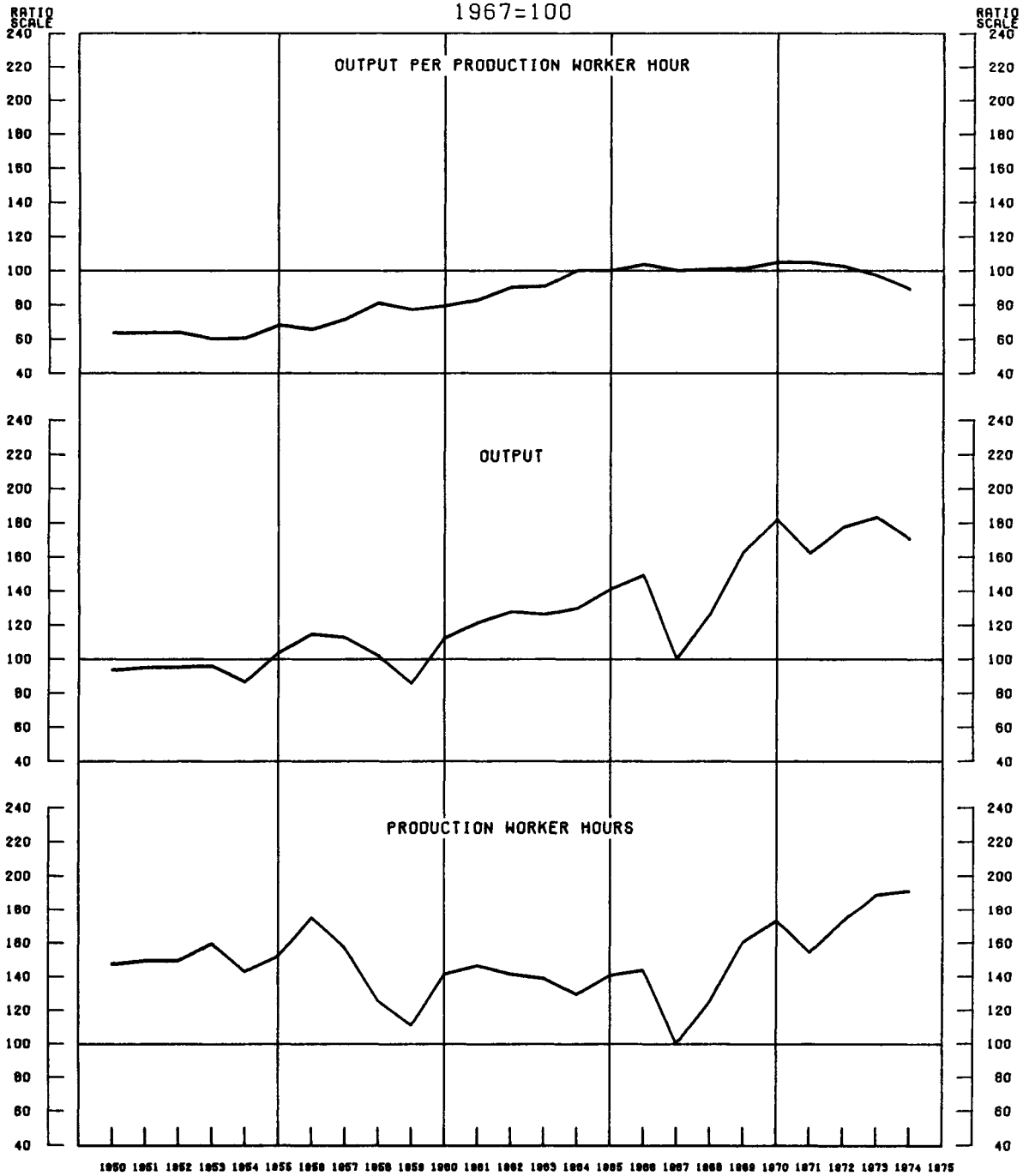
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 4
 COPPER MINING, CRUDE ORE (SIC 1021), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



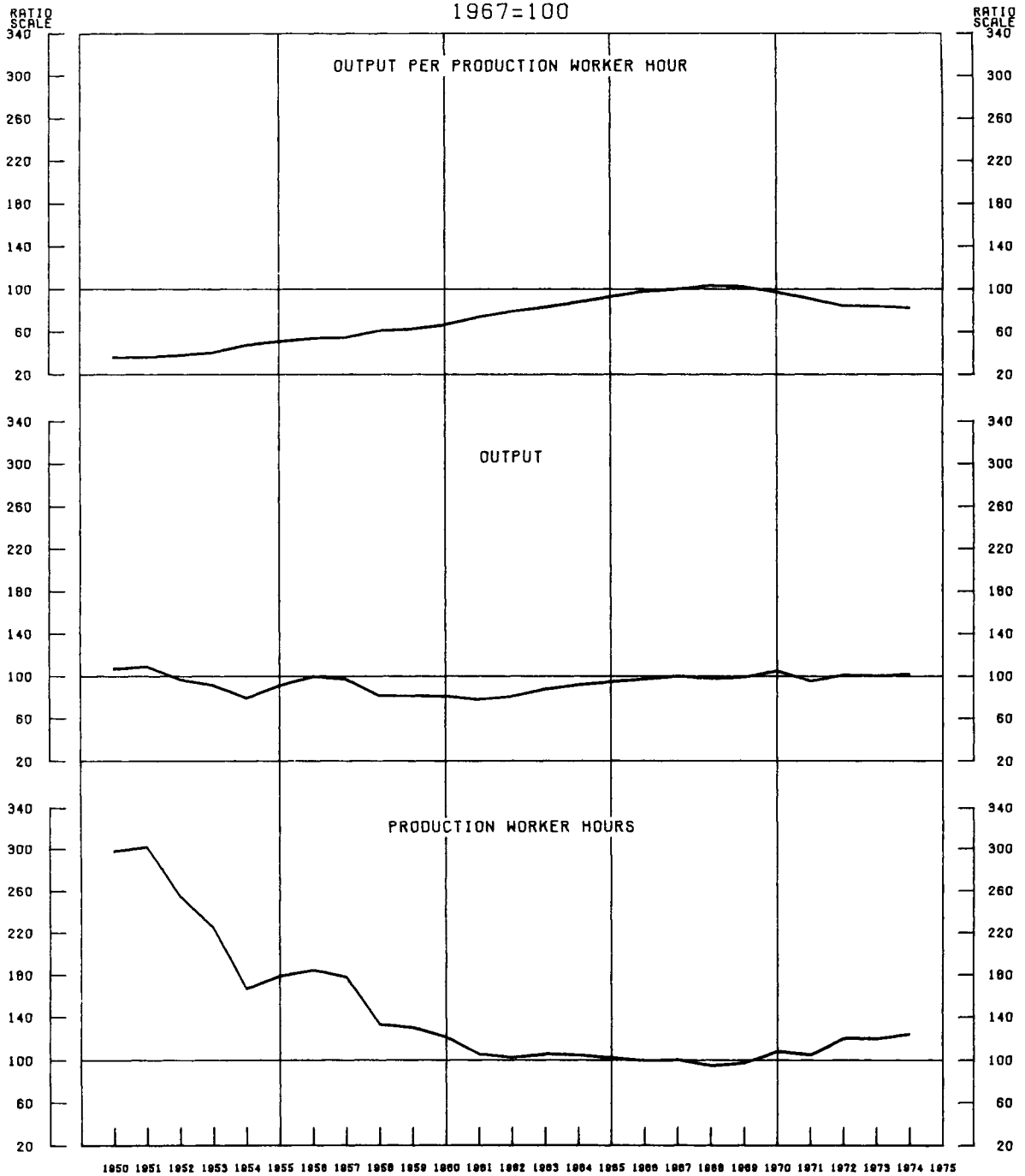
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 5
 COPPER MINING, RECOVERABLE METAL (SIC 1021), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



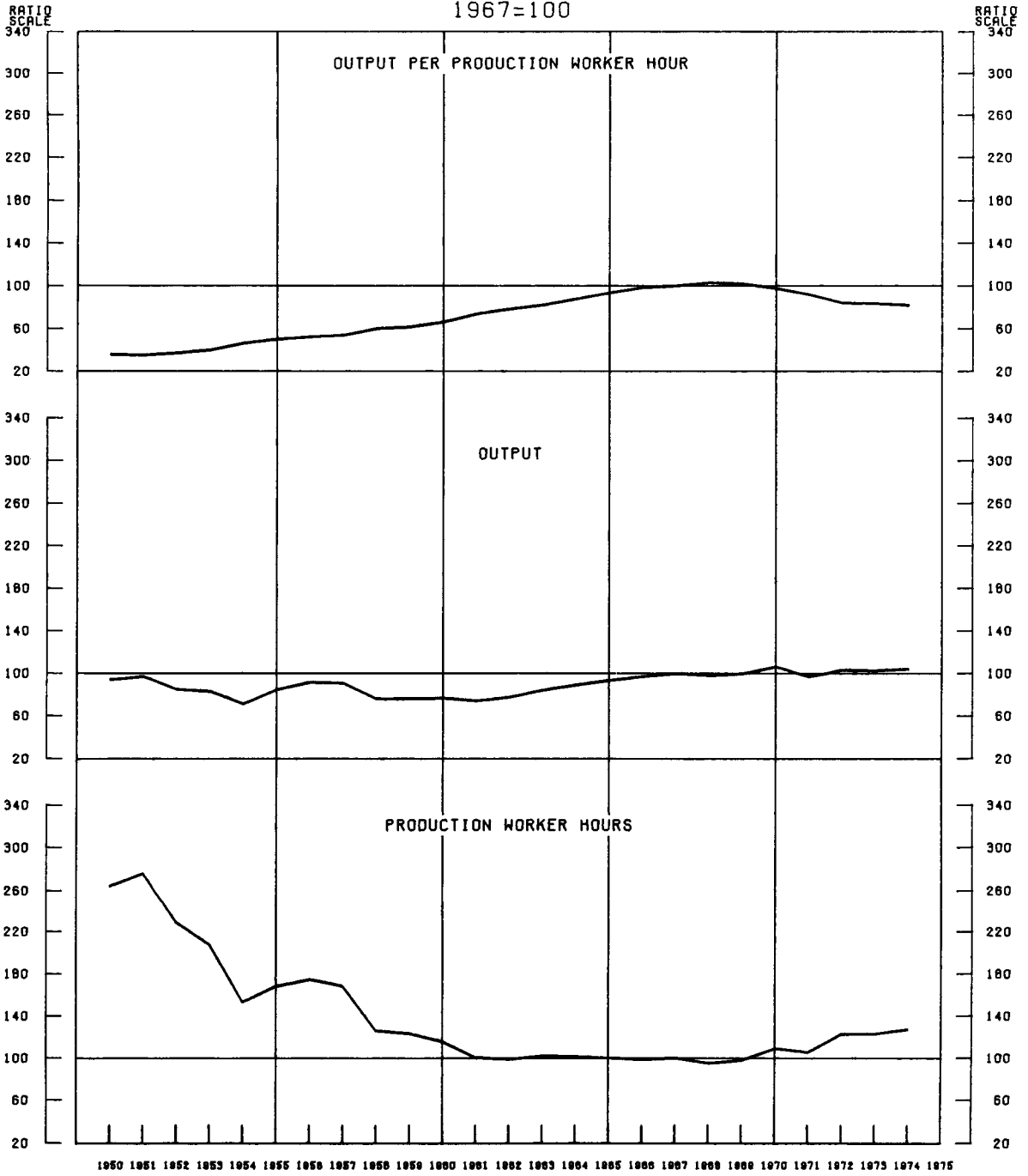
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 6
 COAL MINING (SIC 111, 121), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



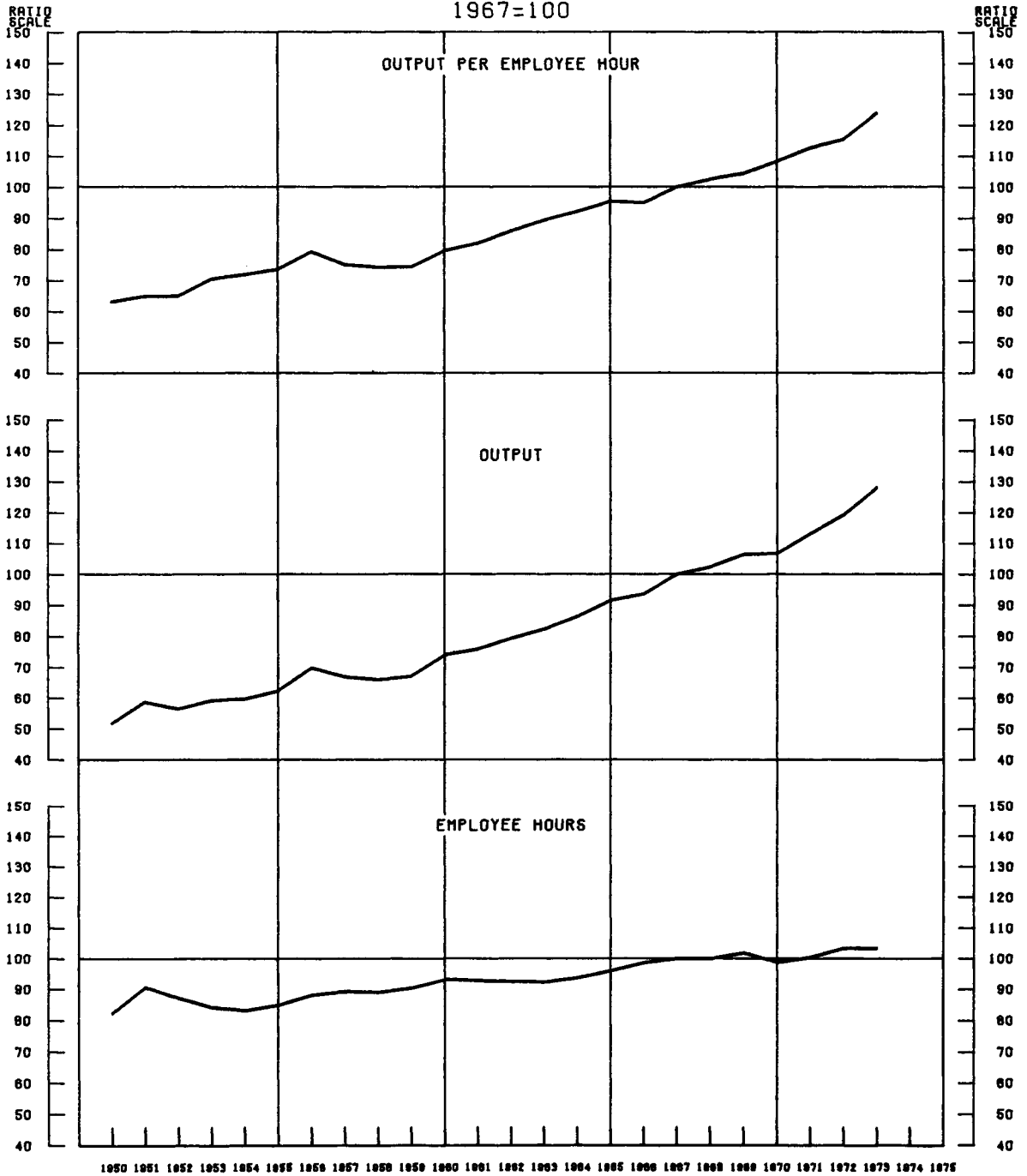
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 7
 BITUMINOUS COAL AND LIGNITE MINING (SIC 121), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



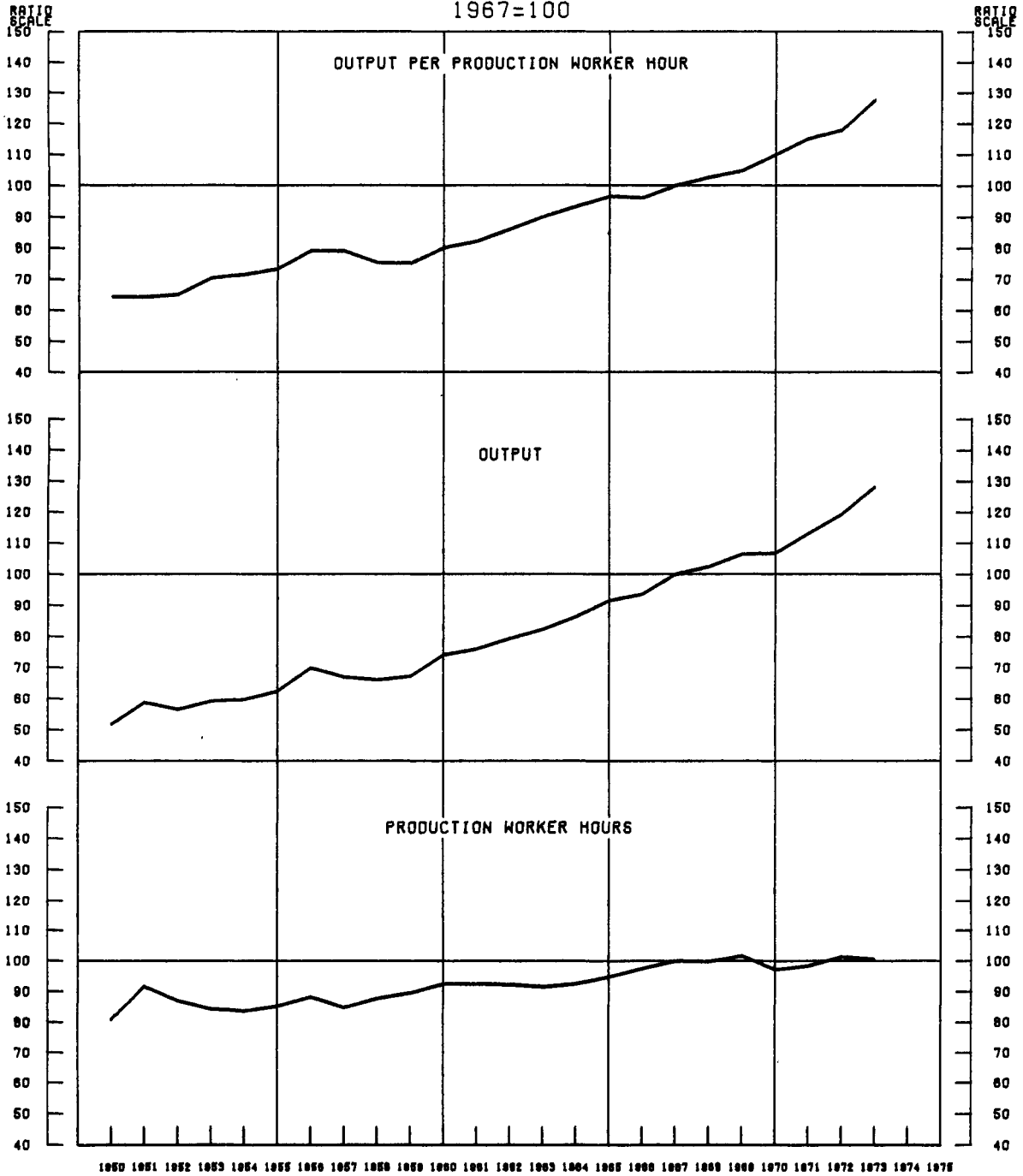
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 8
 CANNING AND PRESERVING (SIC 203), 1950-73
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



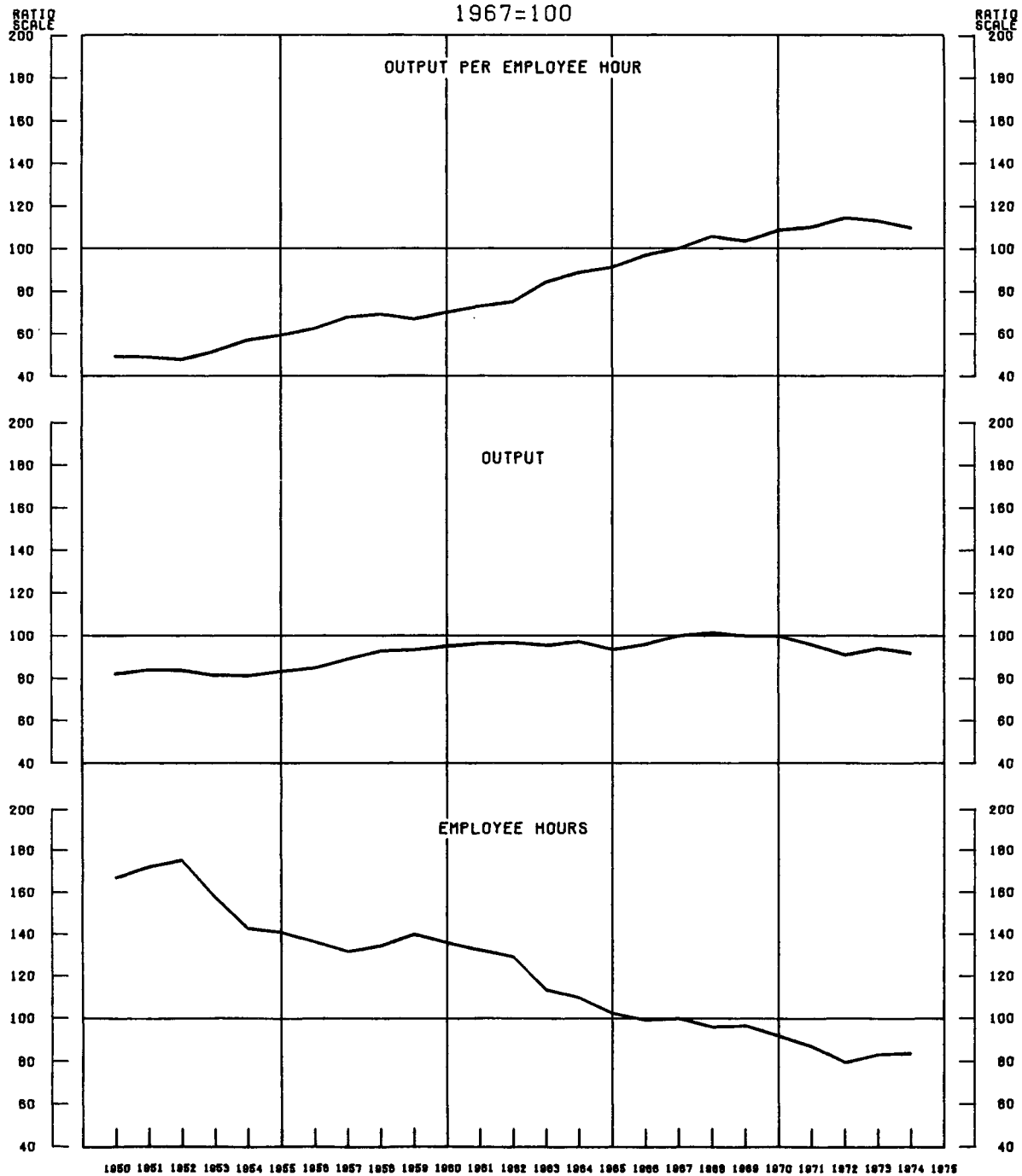
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 9
 CANNING AND PRESERVING (SIC 203), 1950-73
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



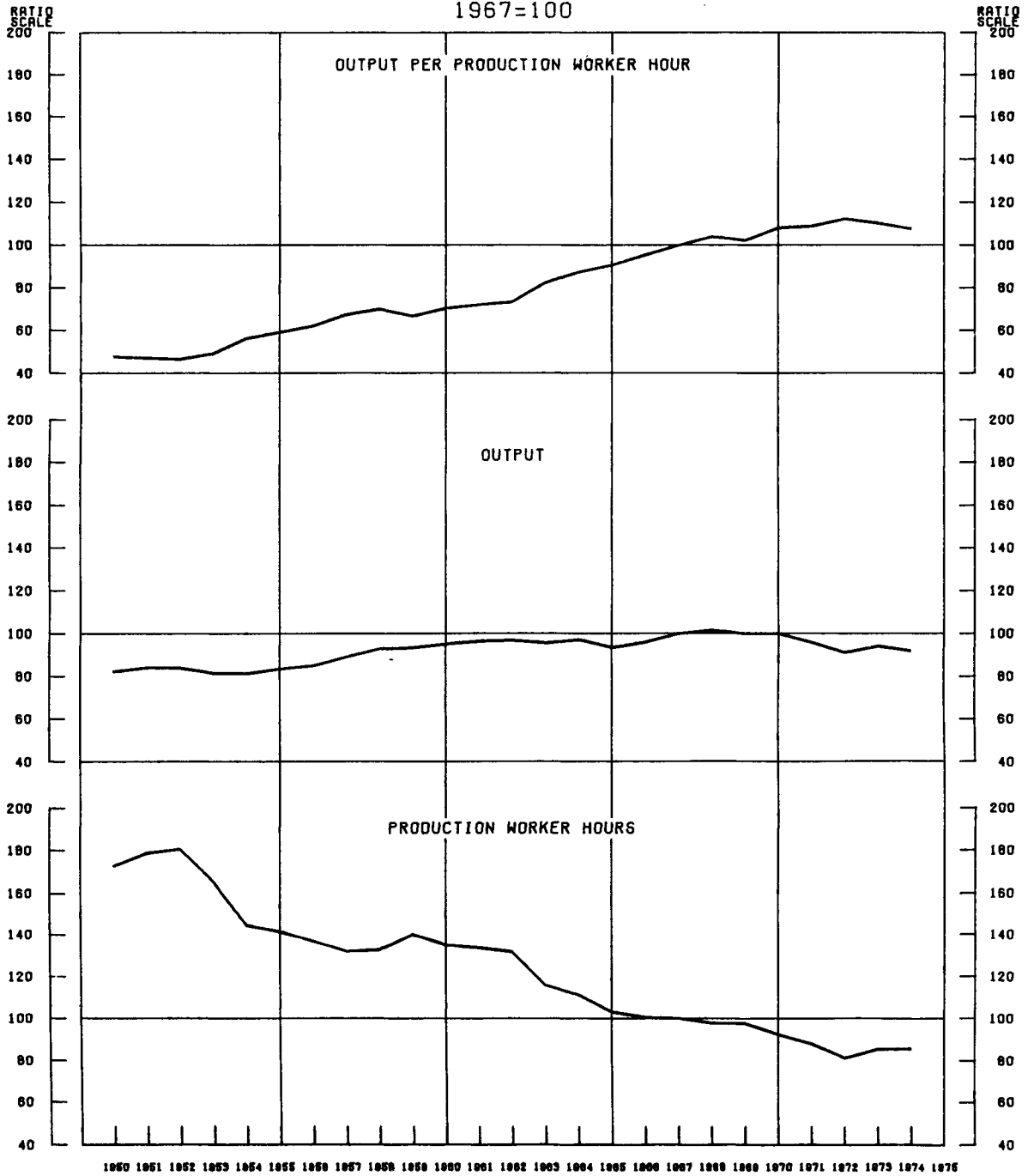
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 10
 FLOUR AND OTHER GRAIN-MILL PRODUCTS (SIC 2041), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



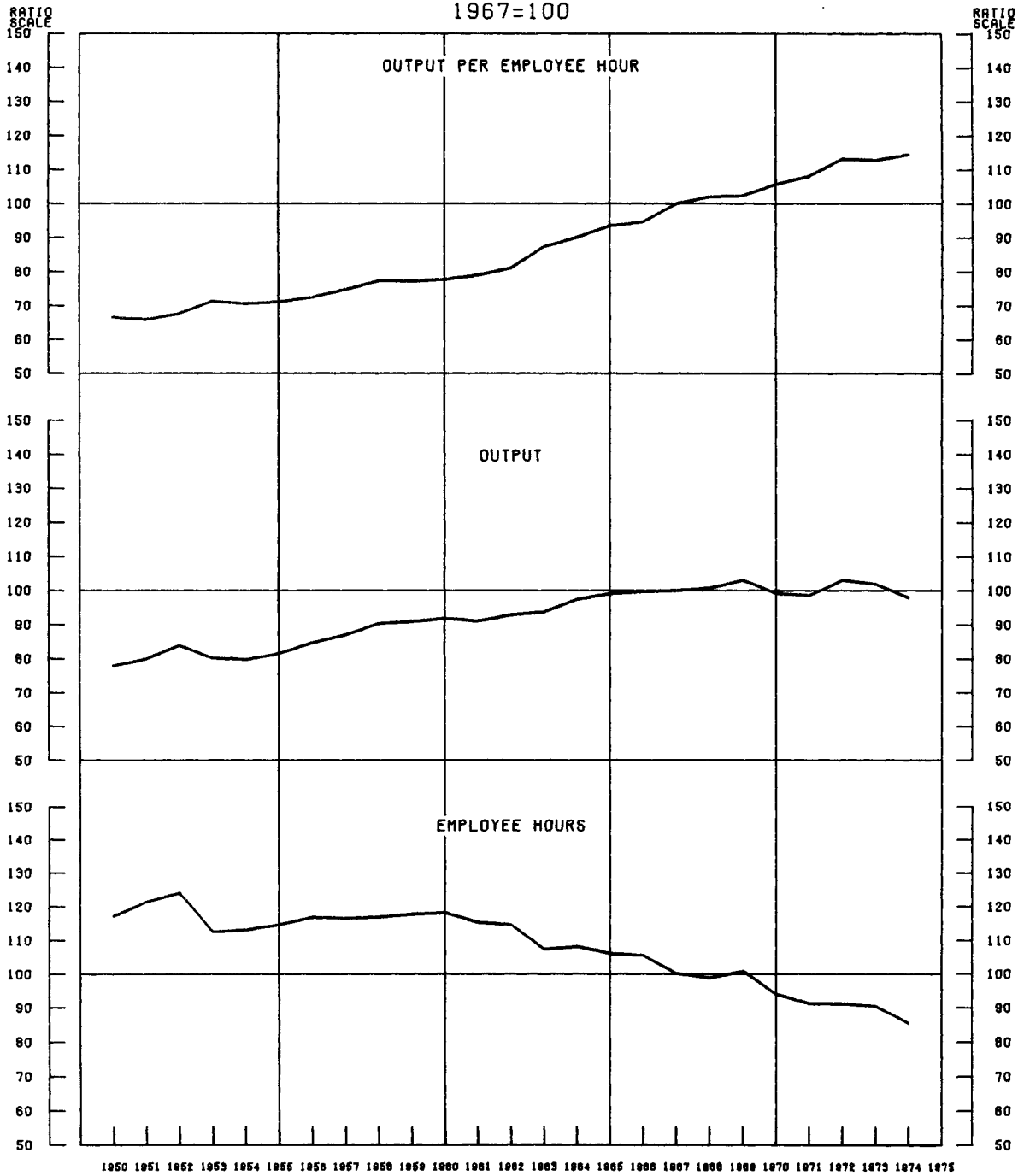
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 11
 FLOUR AND OTHER GRAIN-MILL PRODUCTS (SIC 2041), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



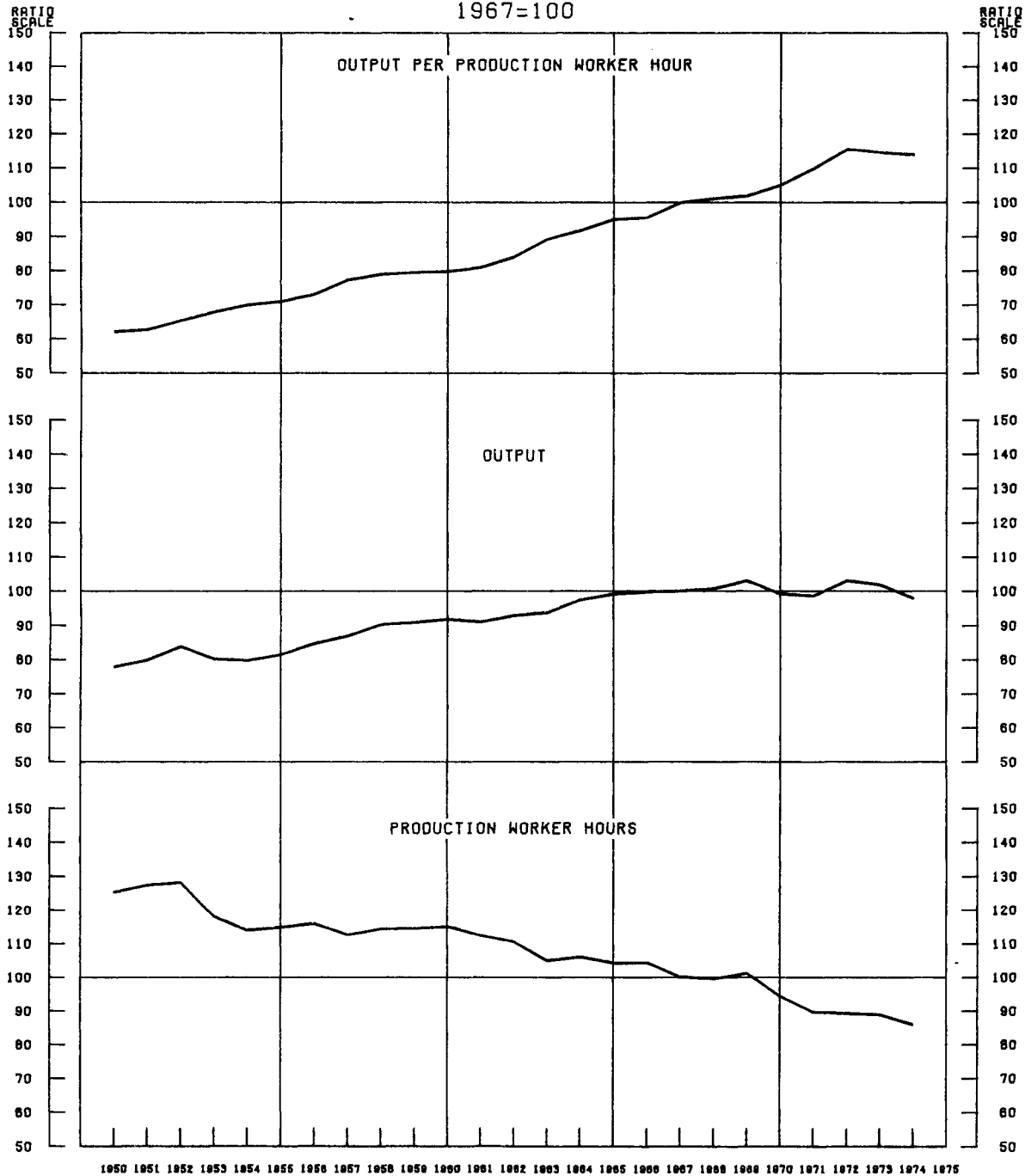
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 12
 BAKERY PRODUCTS (SIC 205), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



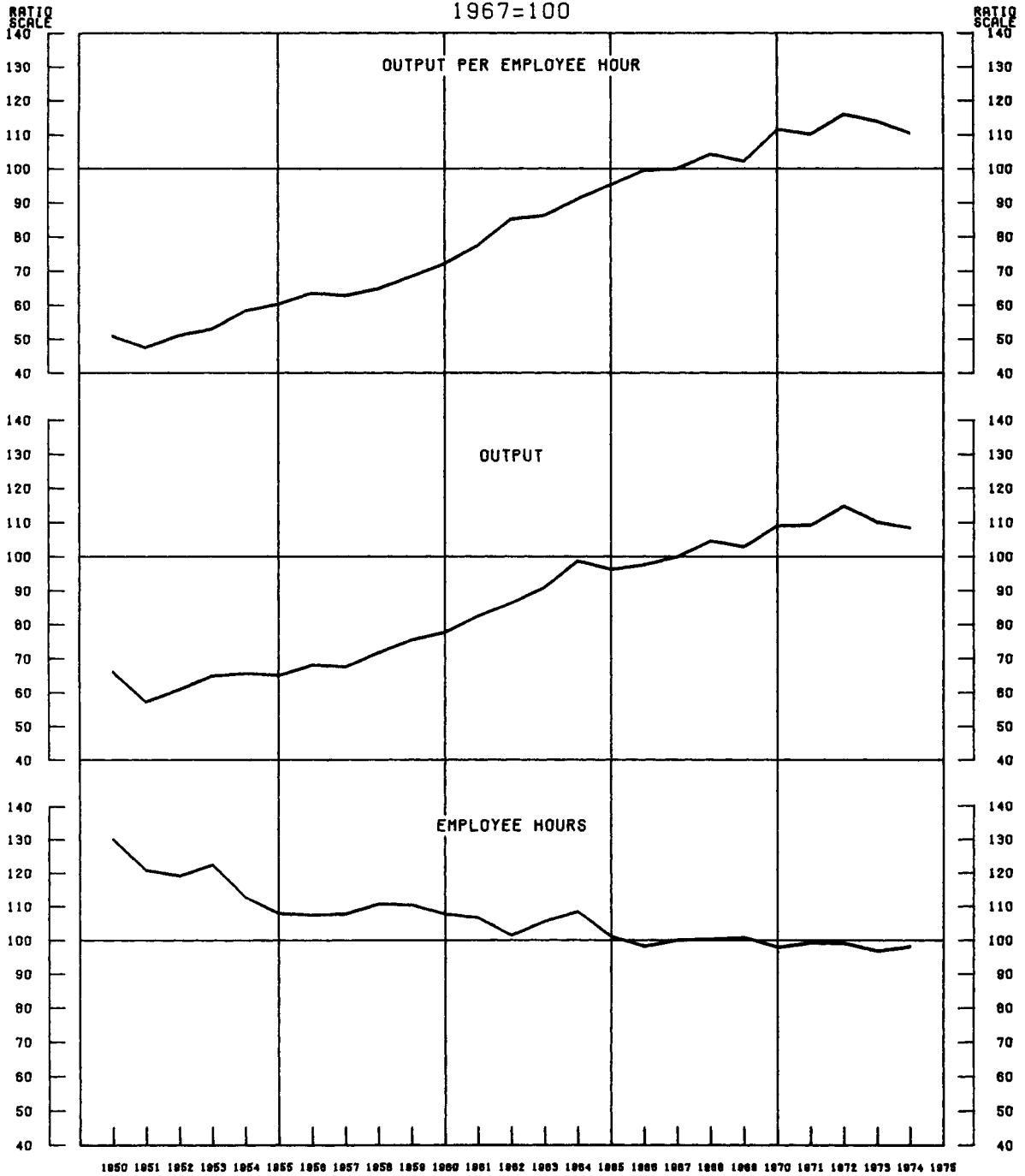
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 13
 BAKERY PRODUCTS (SIC 205), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



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

CHART 14
 SUGAR (SIC 2061, 2062, 2063), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



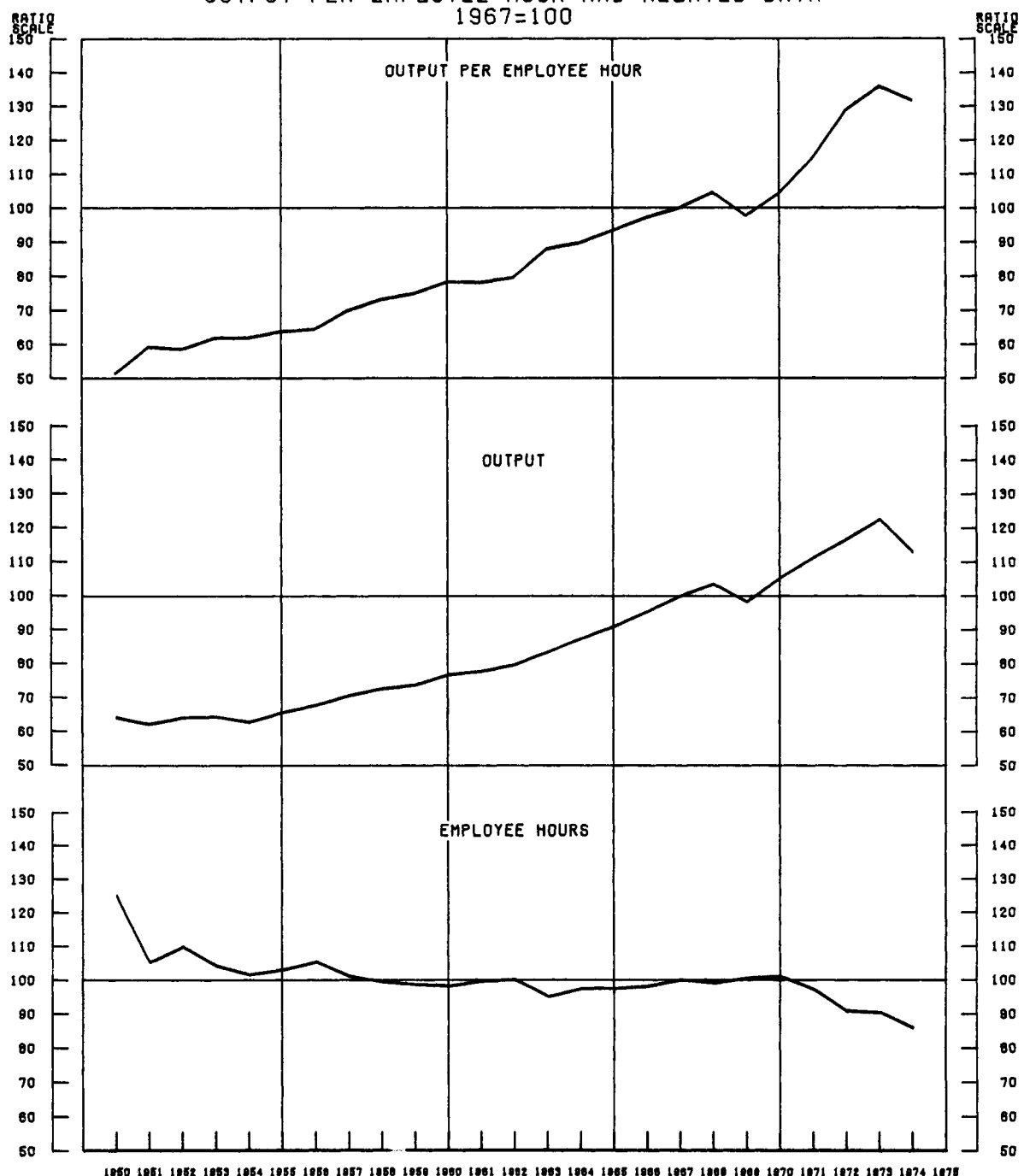
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 15
 SUGAR (SIC 2061, 2062, 2063), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



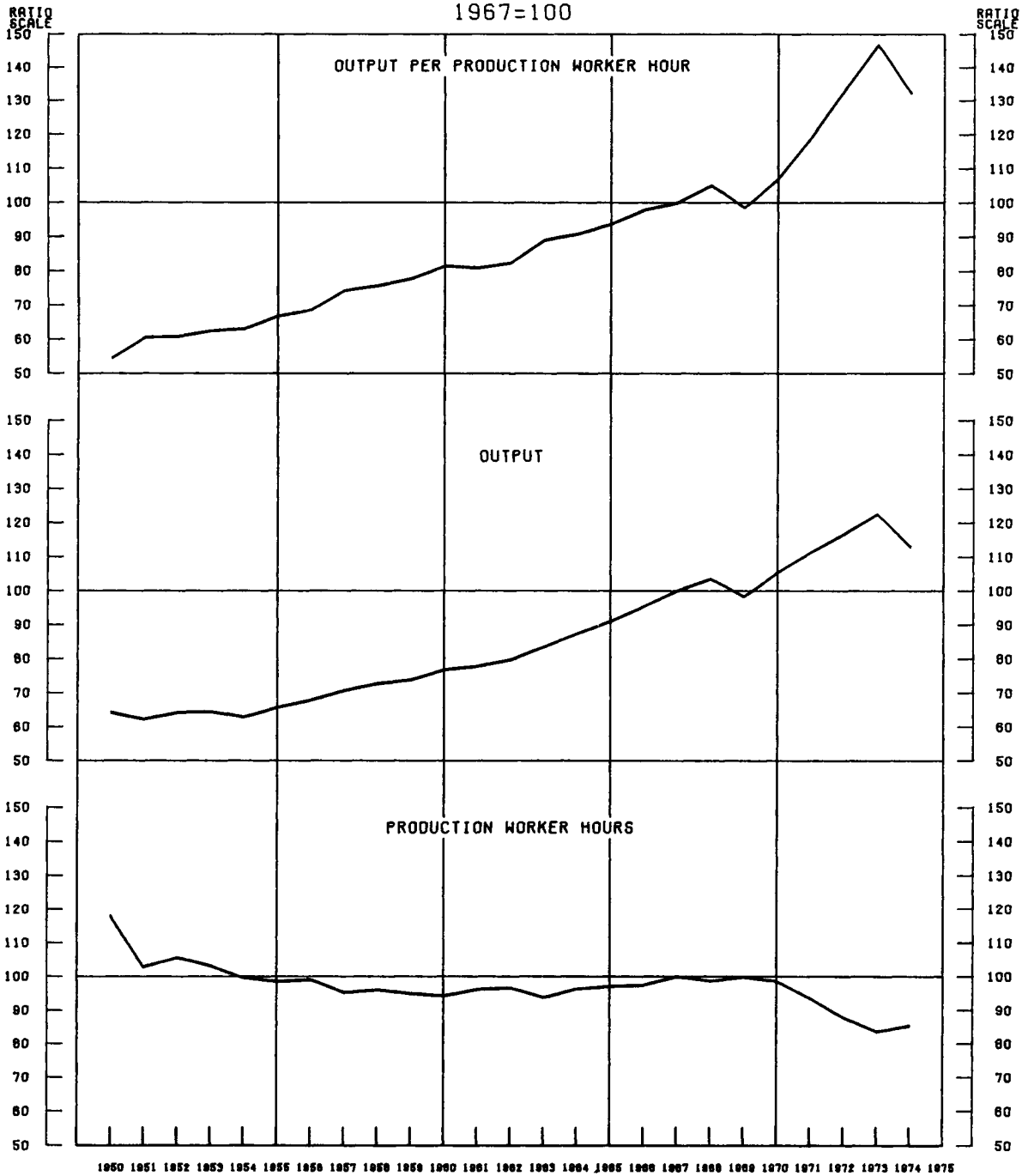
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 16
 CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2065), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



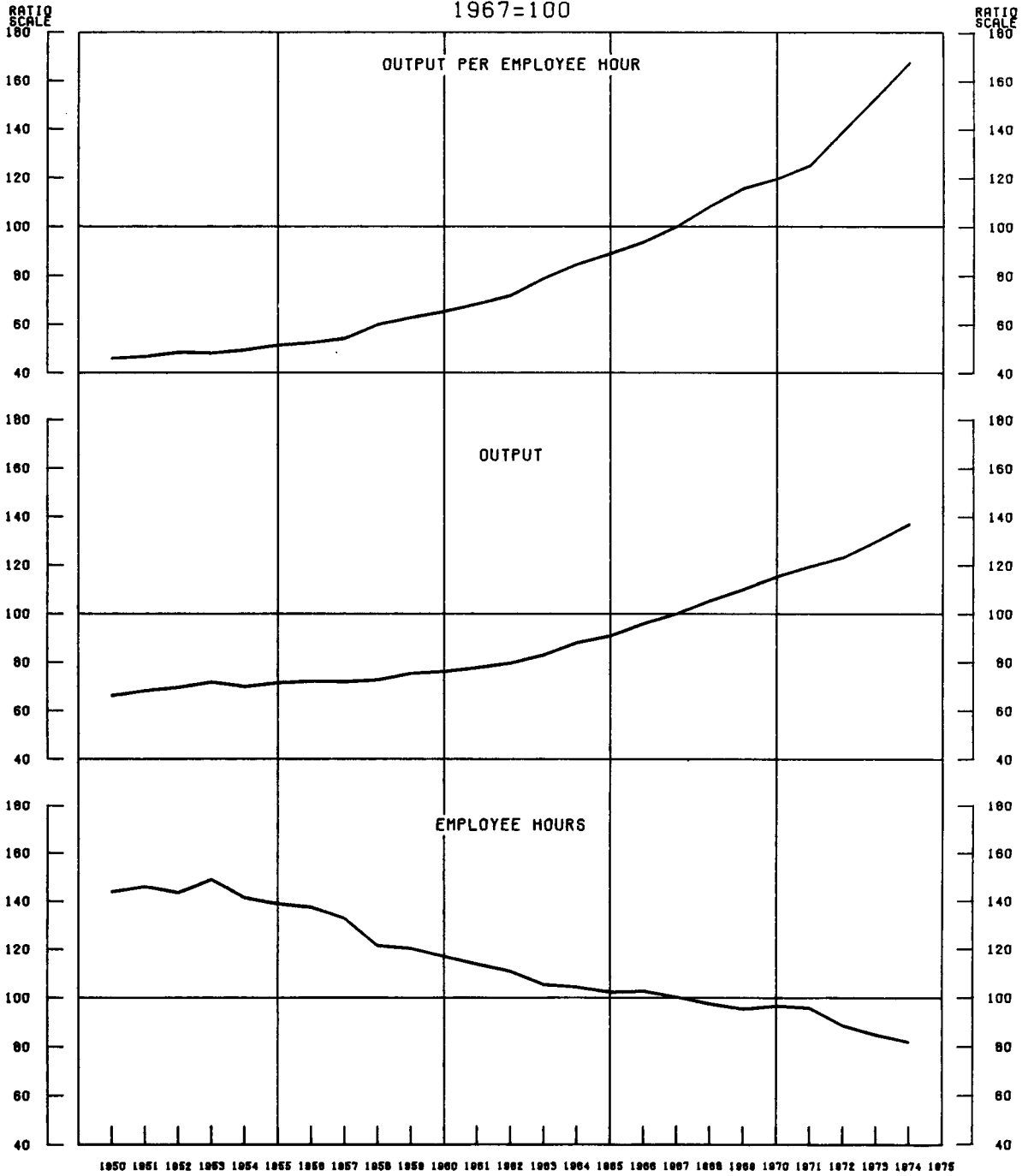
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 17
 CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2065), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



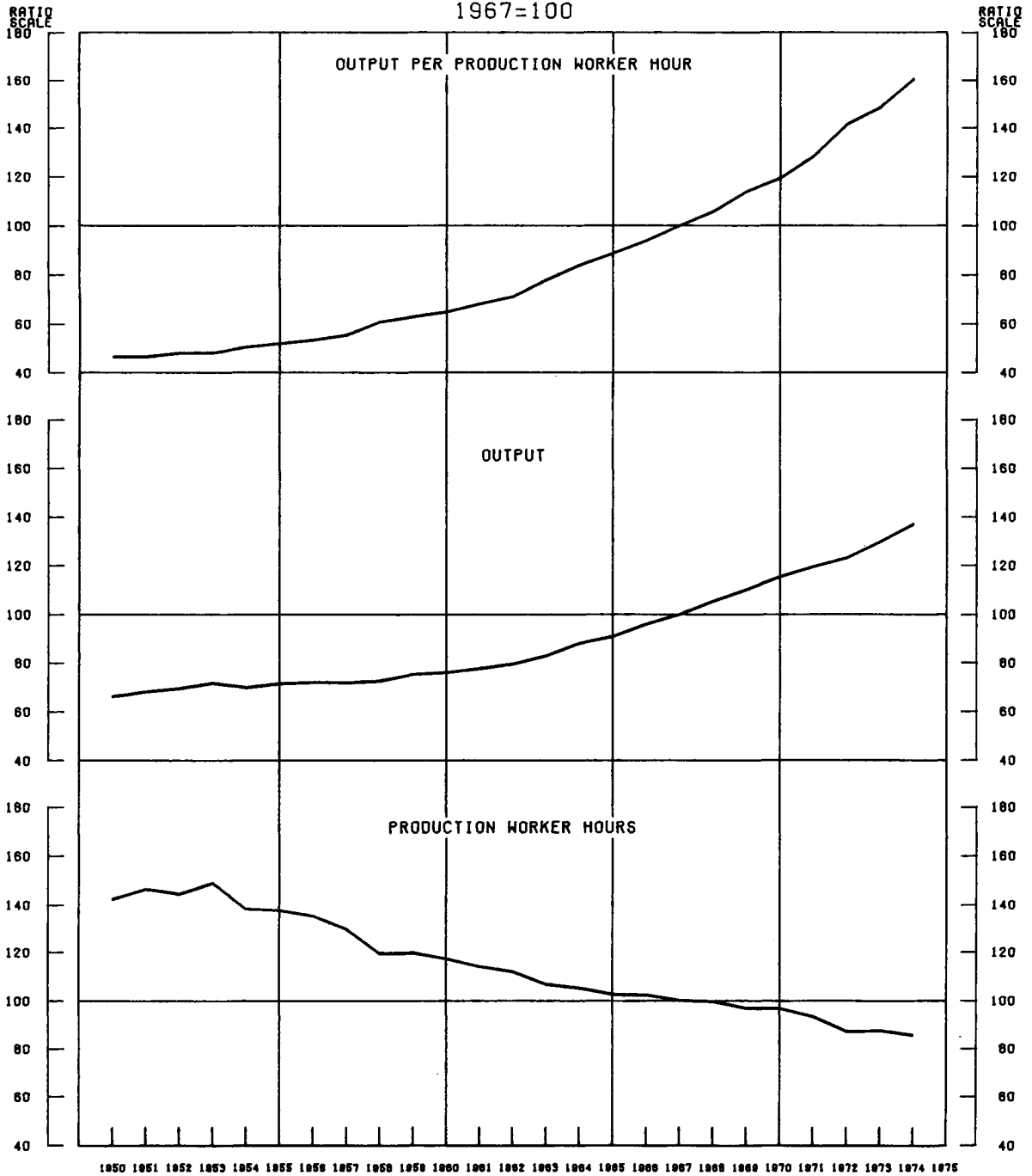
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 18
MALT LIQUORS (SIC 2082), 1950-74
OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
1967=100



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

CHART 19
MALT LIQUORS (SIC 2082), 1950-74
OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
1967=100



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

CHART 20
 BOTTLED AND CANNED SOFT DRINKS (SIC 2086), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



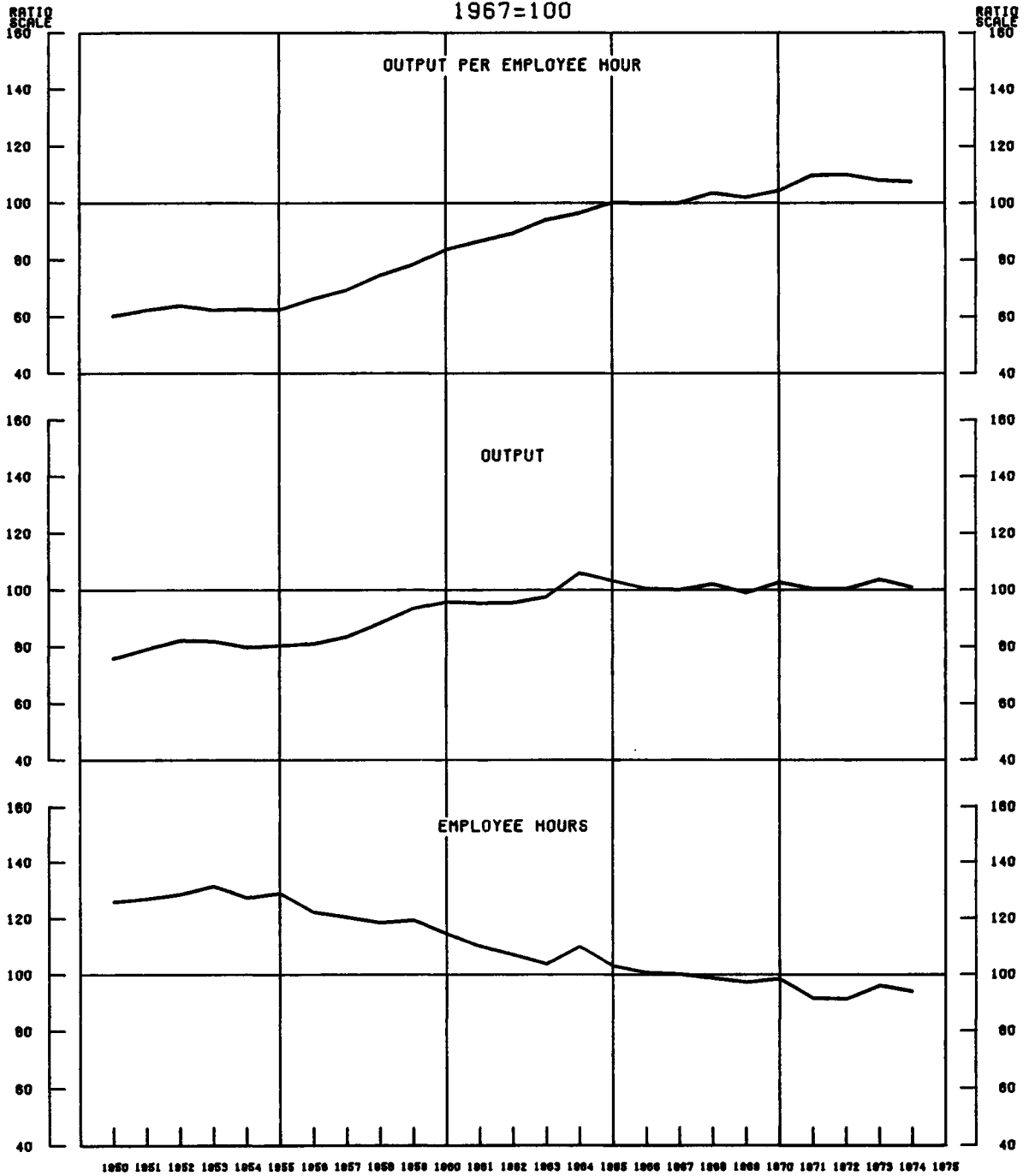
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 21
 BOTTLED AND CANNED SOFT DRINKS (SIC 2086), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



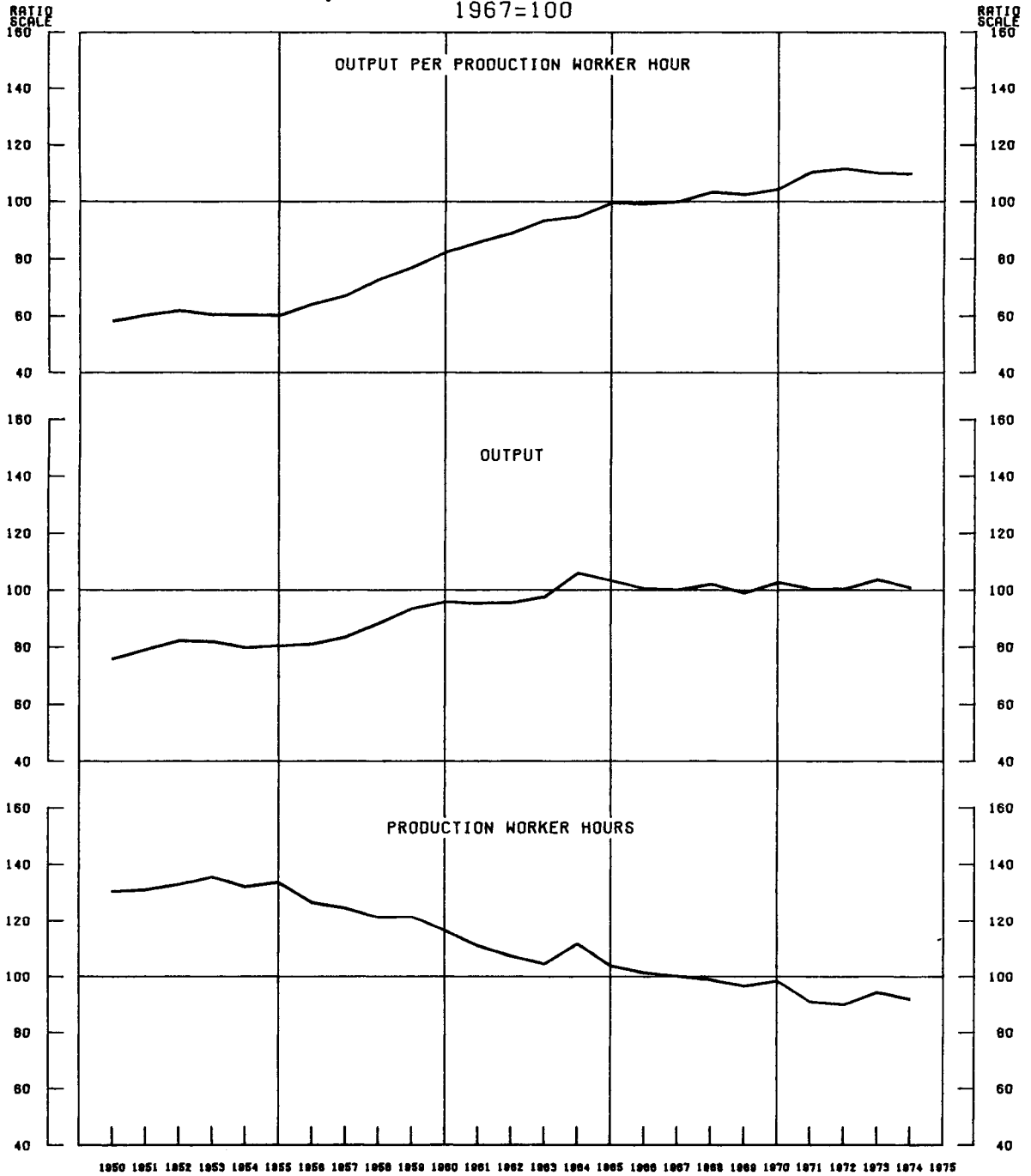
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 22
 TOBACCO PRODUCTS-TOTAL (SIC 2111, 2121, 2131), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA,
 1967=100



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

CHART 23
 TOBACCO PRODUCTS-TOTAL (SIC 2111, 2121, 2131), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



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

CHART 24
 CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 2111, 31), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100

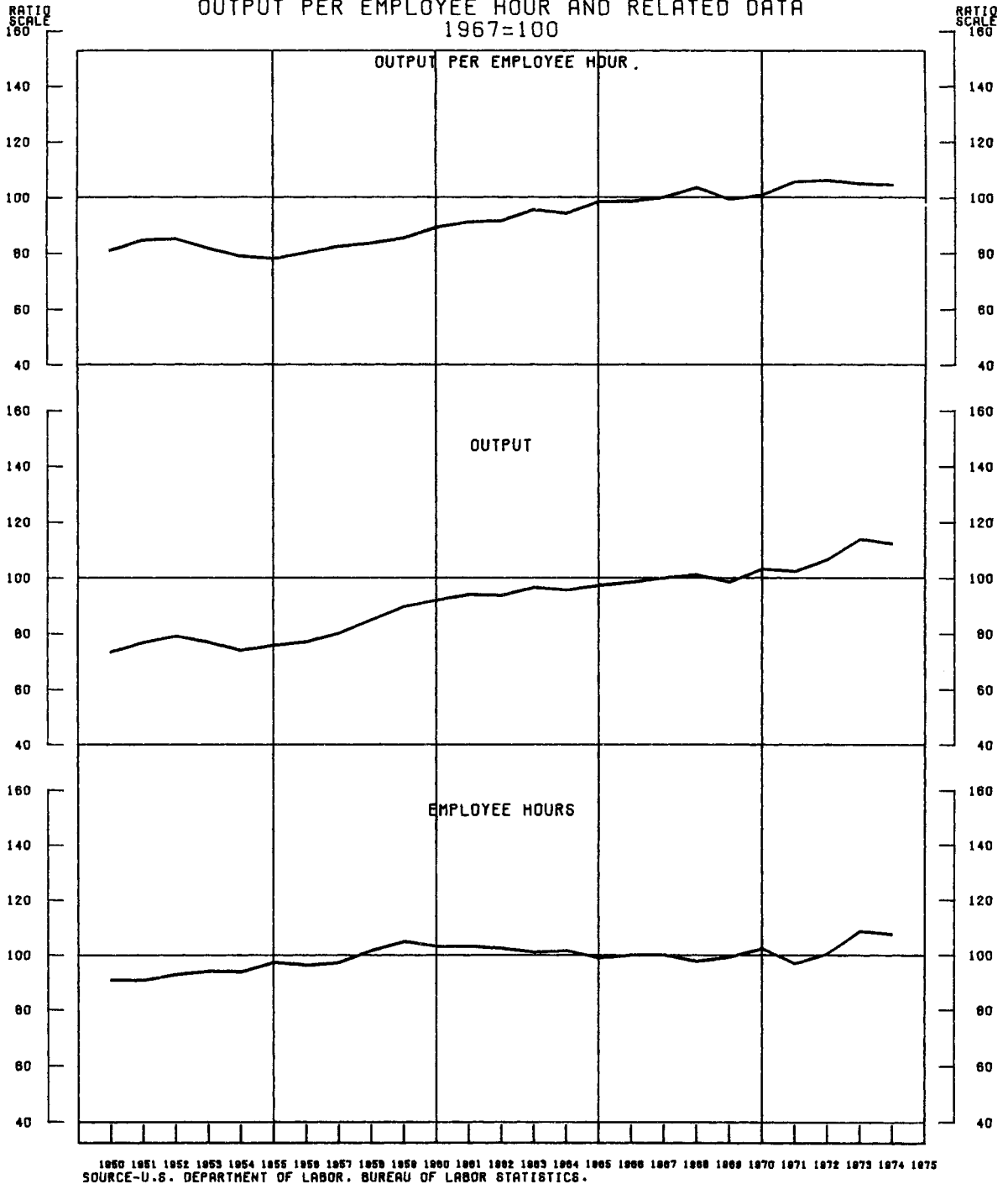
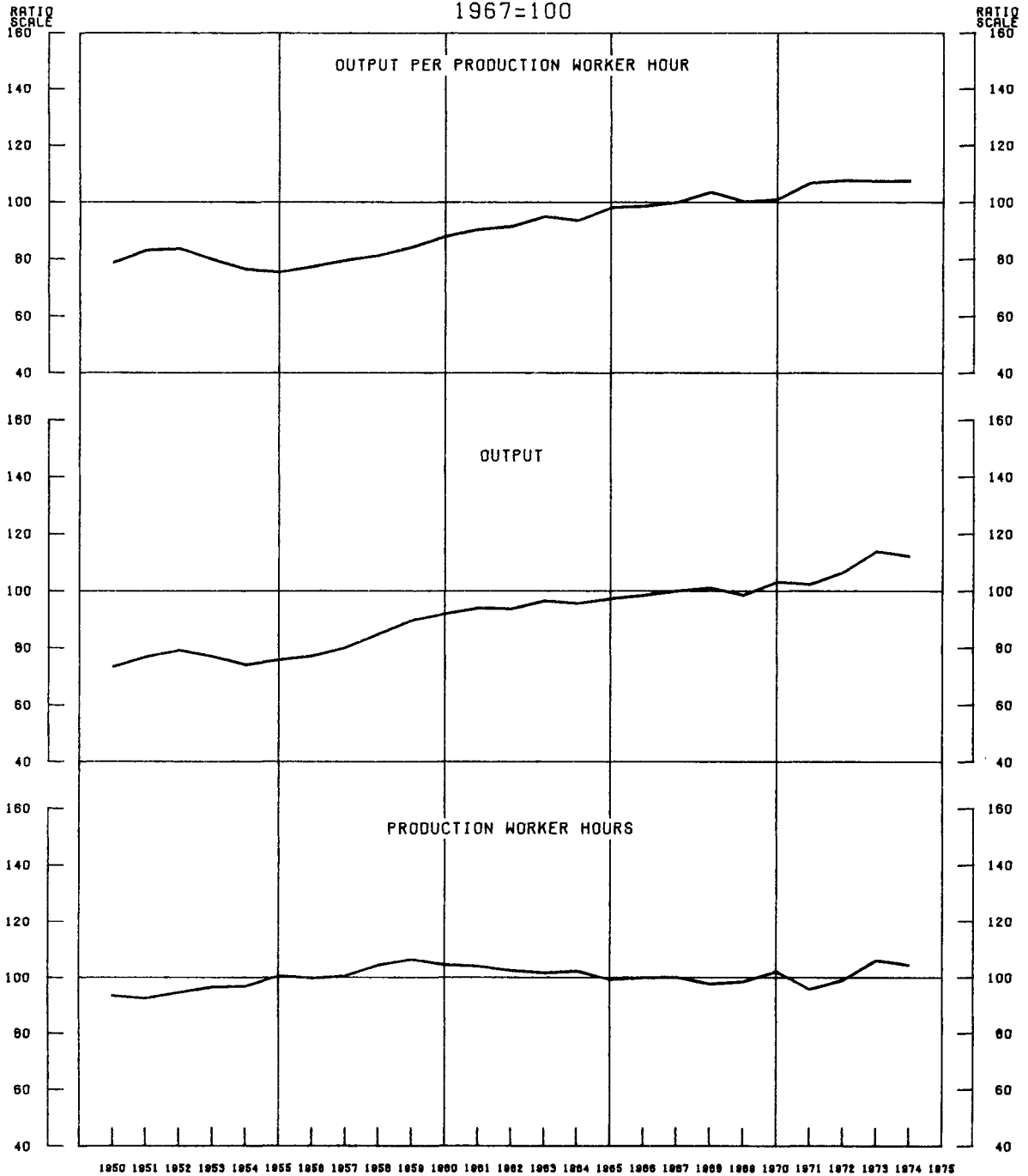
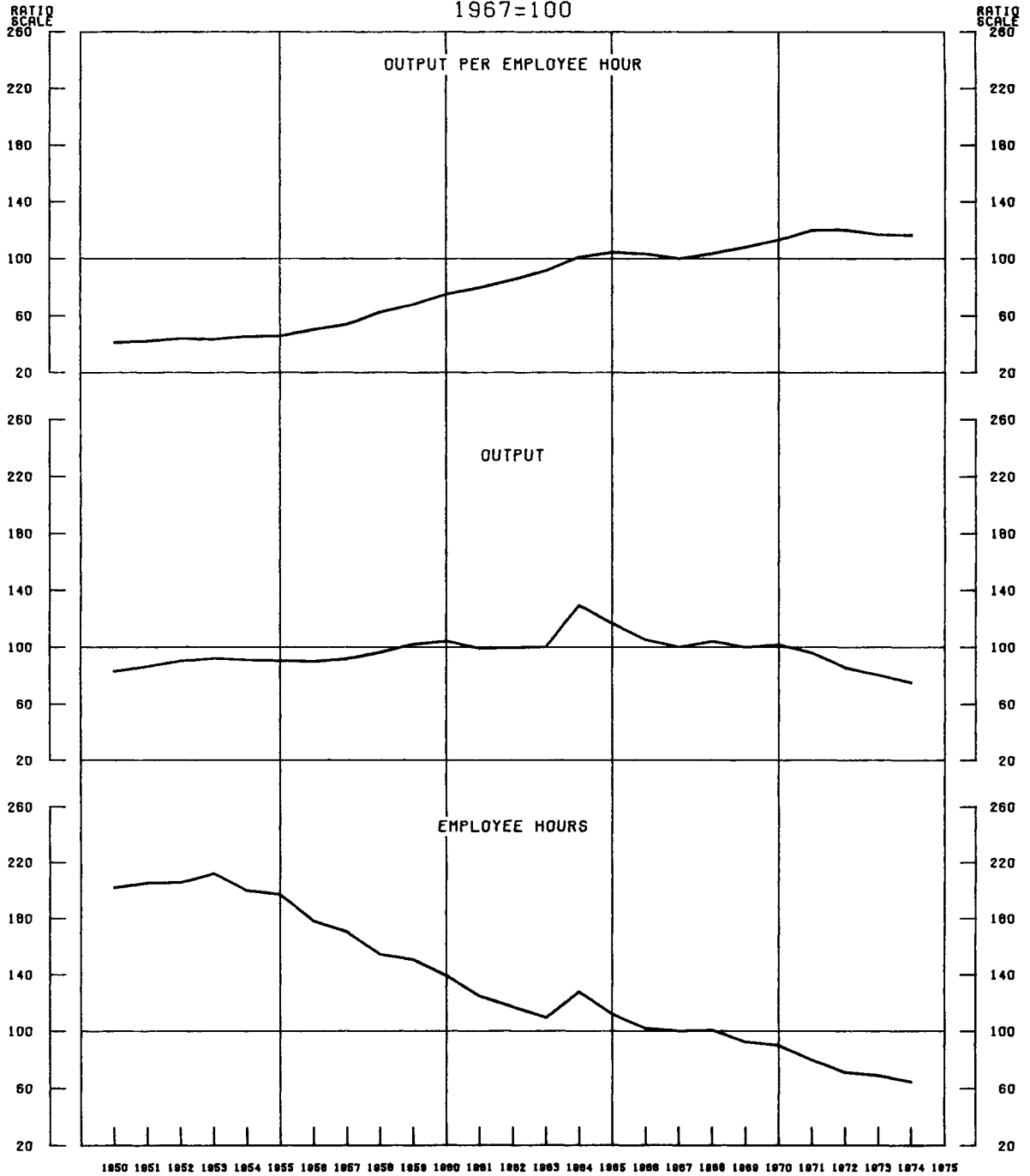


CHART 25
 CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 2111, 31), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



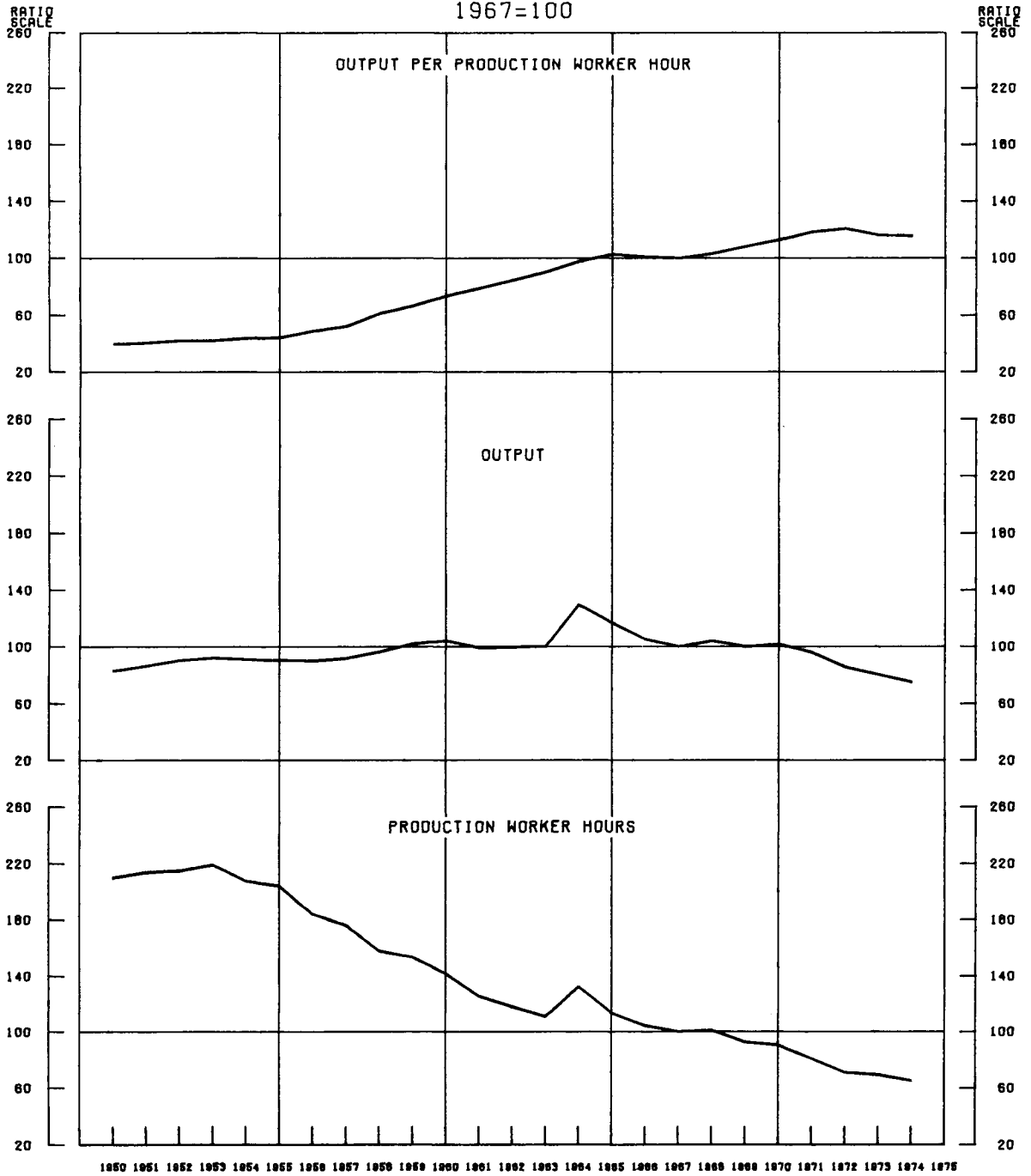
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 26
 CIGARS (SIC 2121), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



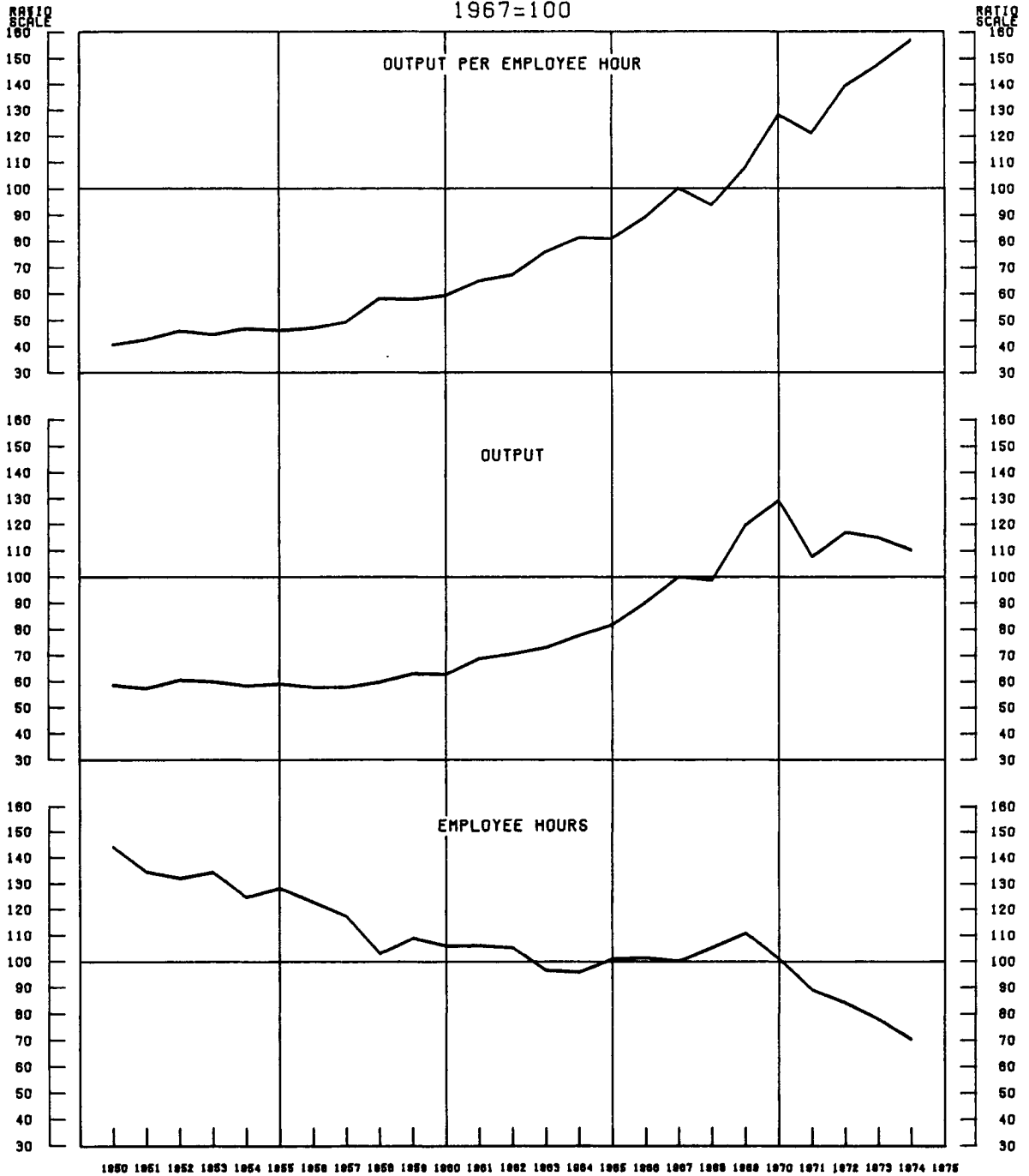
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 27
 CIGARS (SIC 2121), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



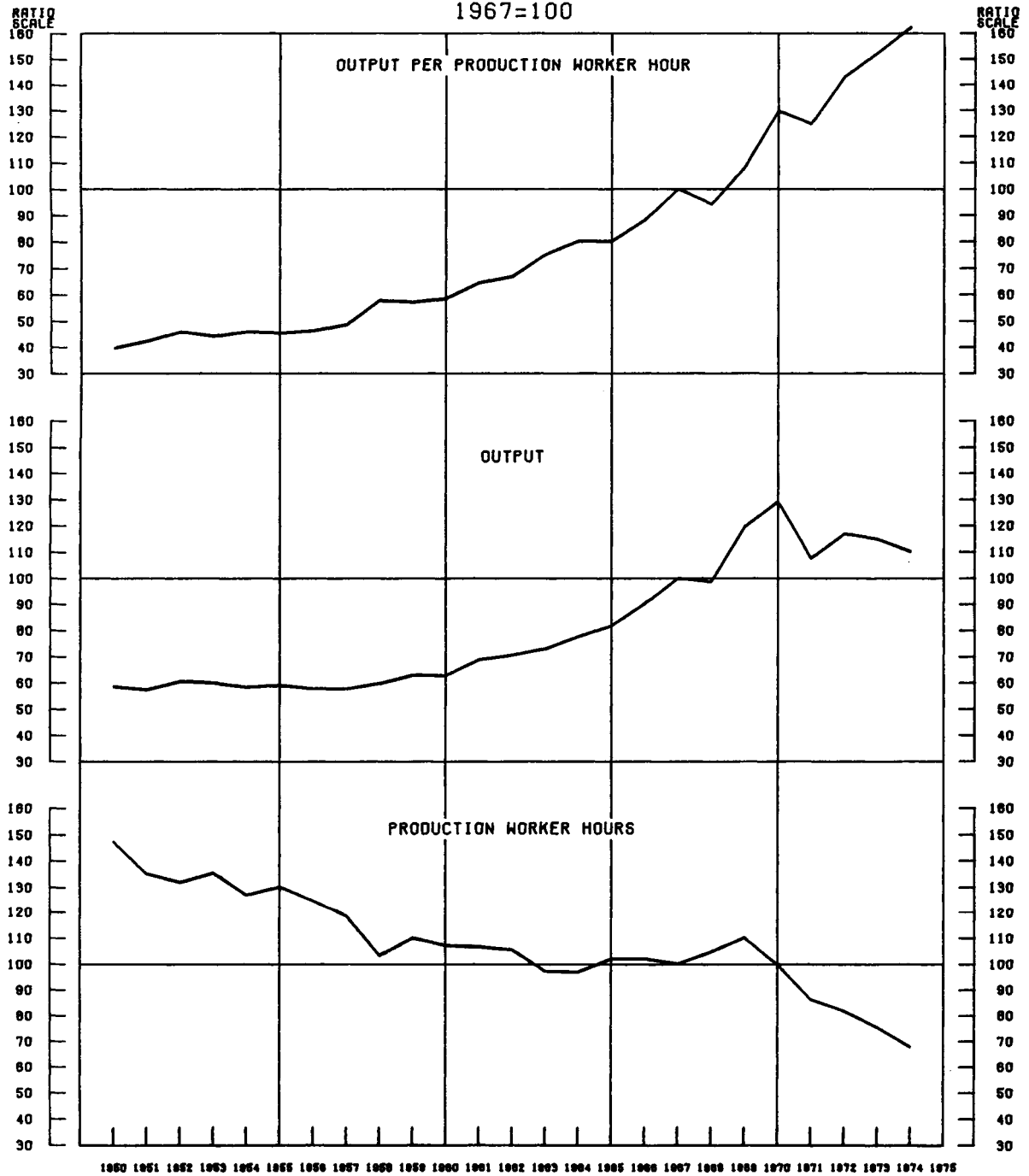
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 28
 HOSIERY (SIC 2251, 2252), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



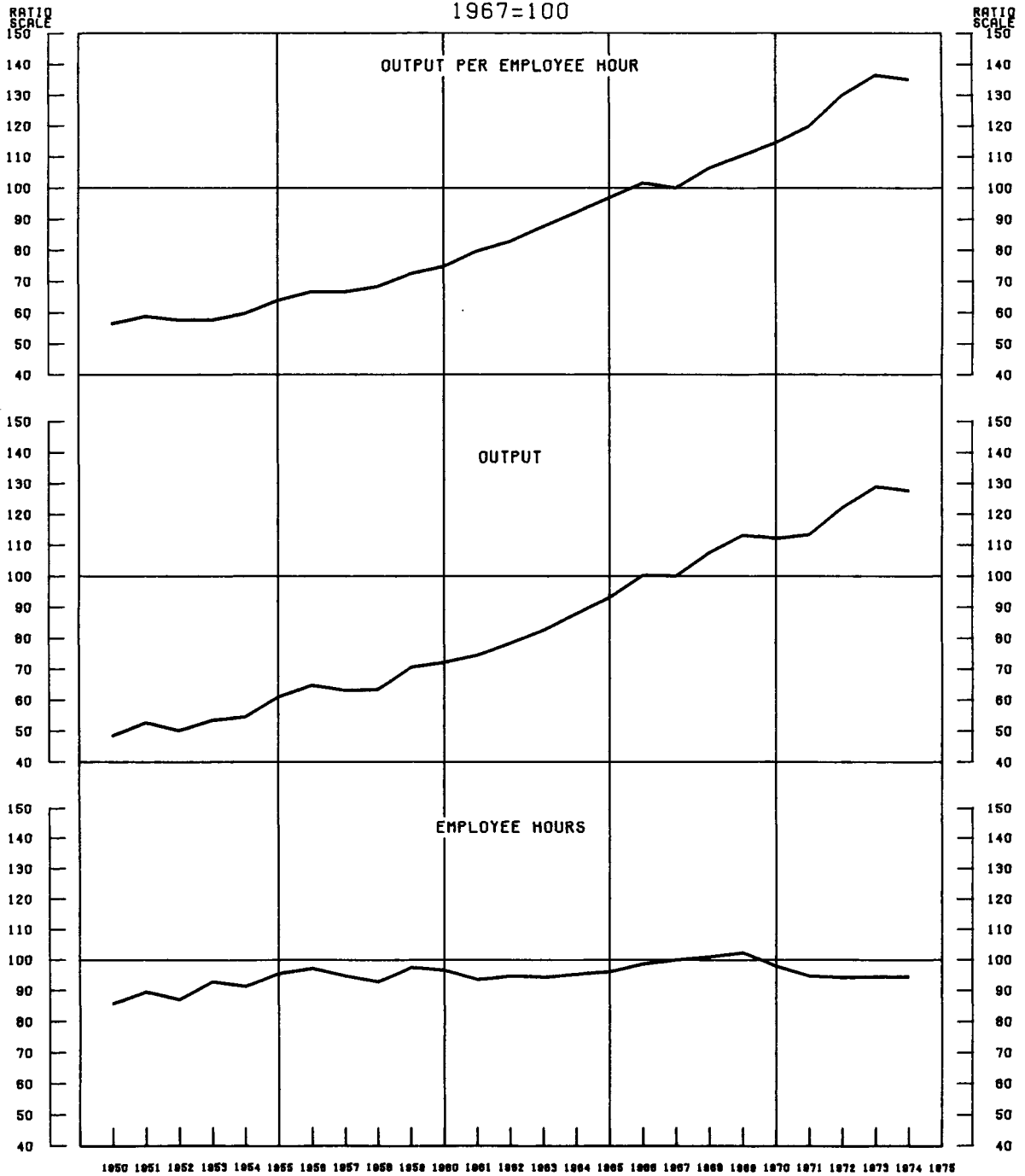
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 29
 HOSIERY (SIC 2251, 2252), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



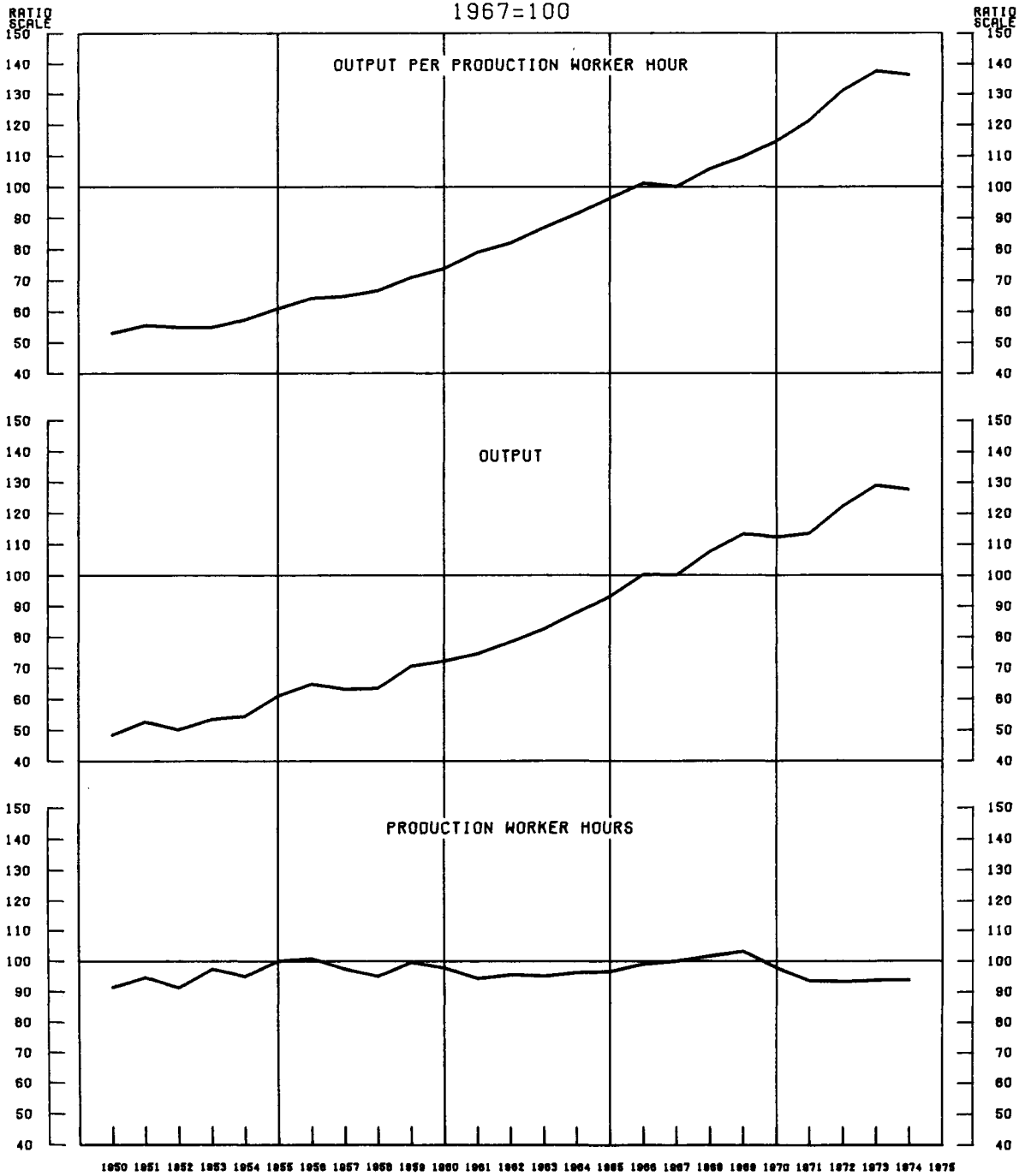
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 30
 PAPER, PAPERBOARD AND PULP MILLS (SIC 2611, 21, 31, 61), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



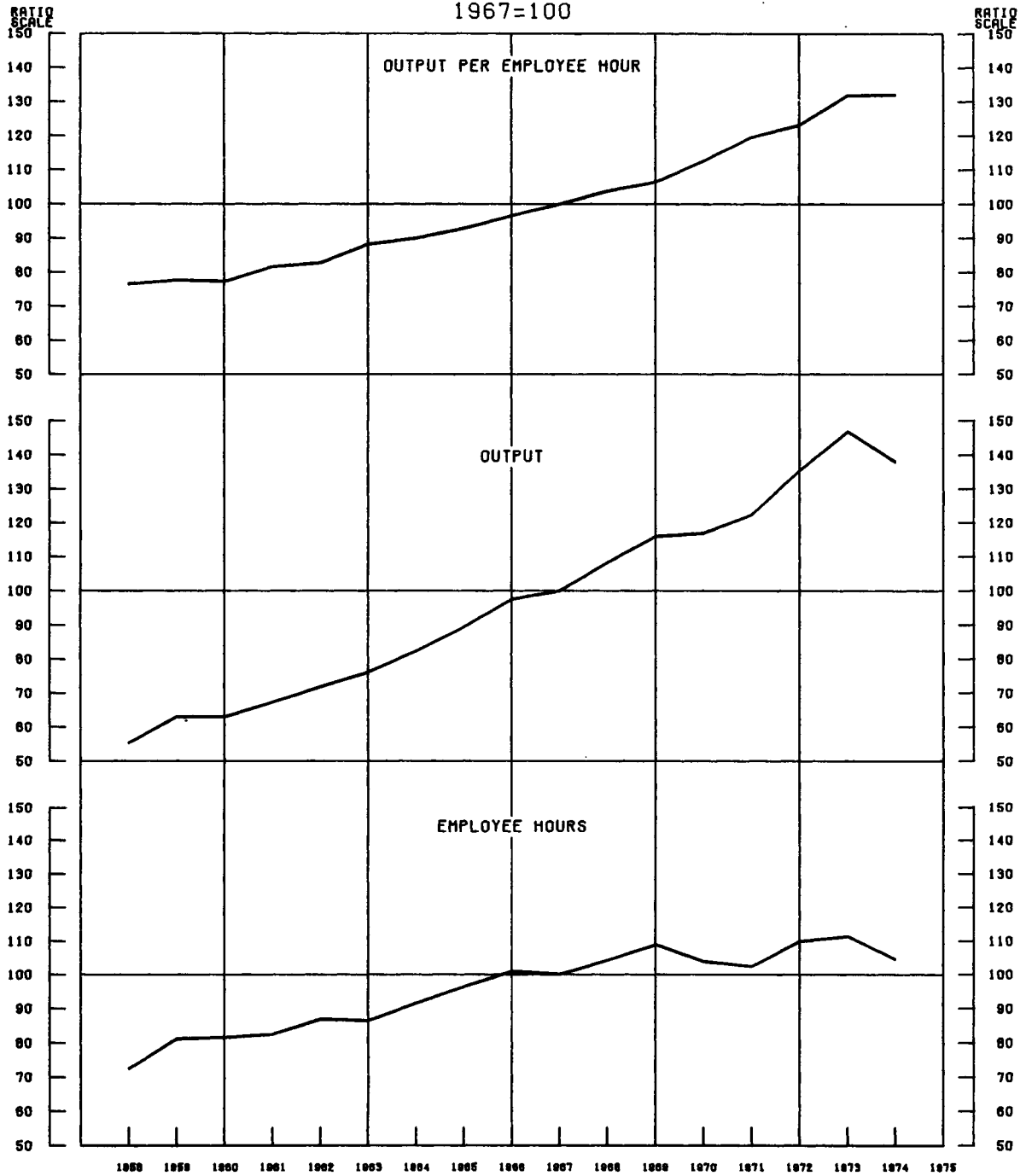
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 31
 PAPER, PAPERBOARD AND PULP MILLS (SIC 2611, 21, 31, 61), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



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

CHART 32
 CORRUGATED AND SOLID FIBER BOXES (SIC 2653), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



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

CHART 33
 CORRUGATED AND SOLID FIBER BOXES (SIC 2653), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



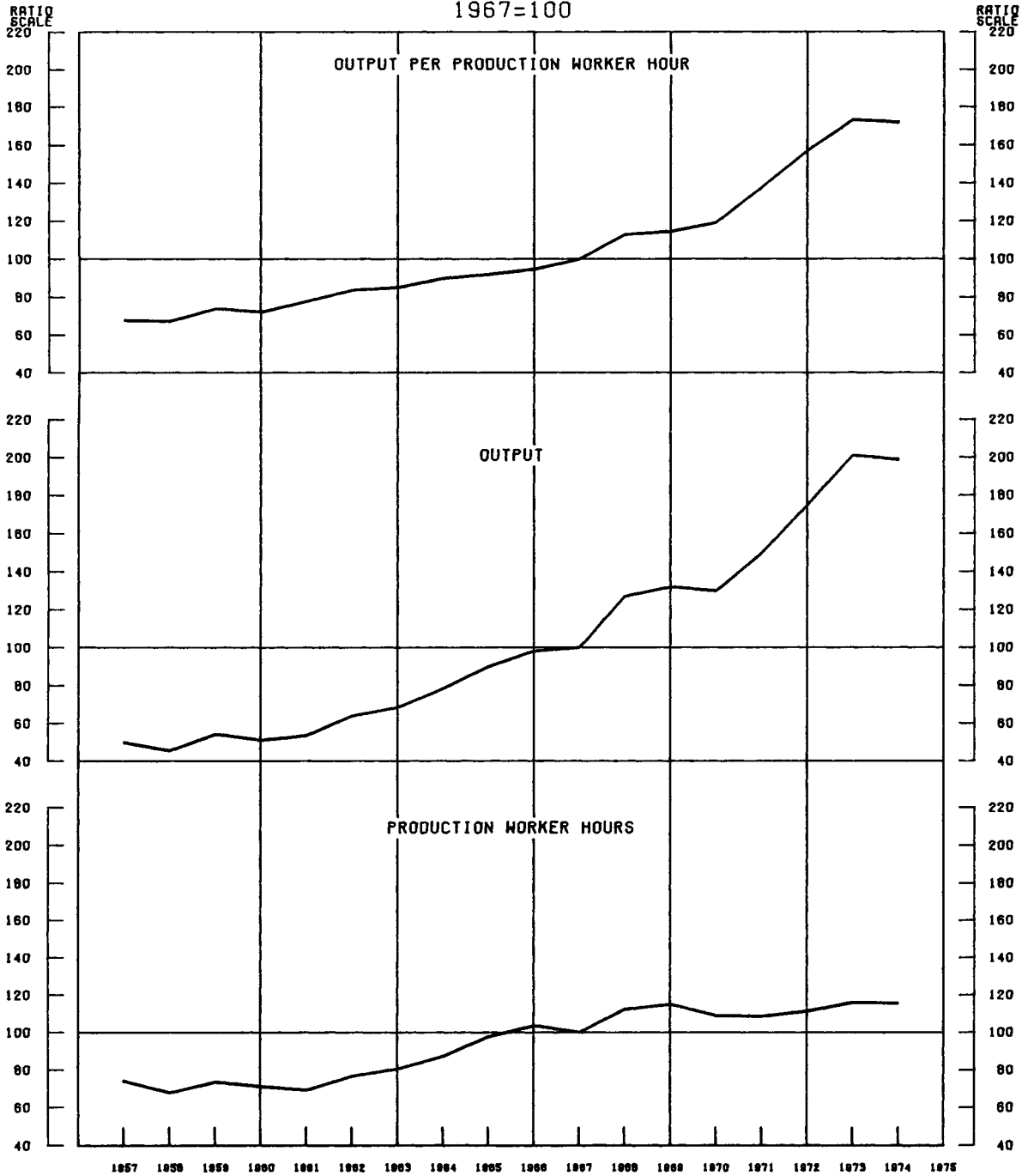
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 34
 SYNTHETIC FIBERS (SIC 2823, 2824), 1957-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



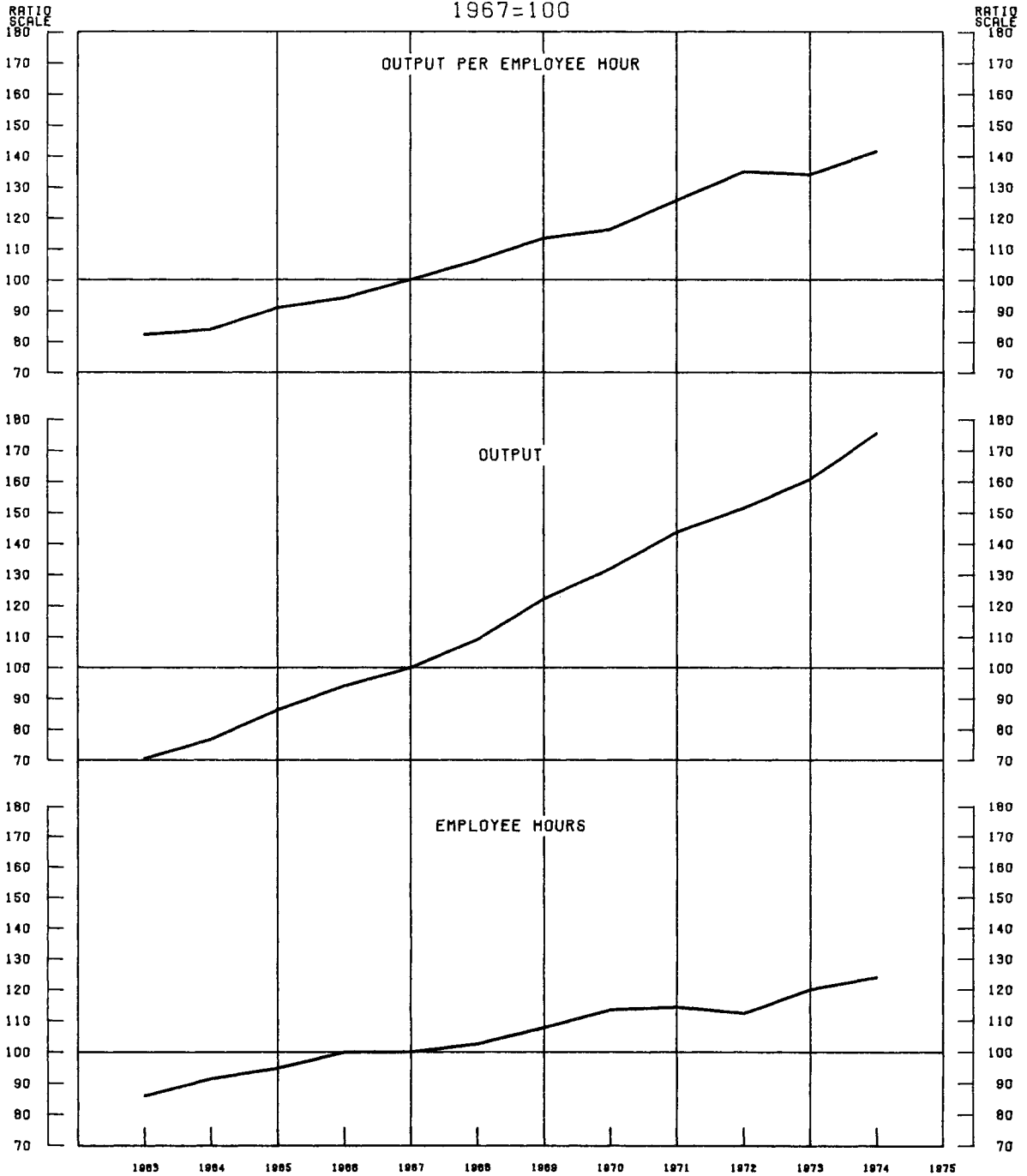
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 35
 SYNTHETIC FIBERS (SIC 2823, 2824), 1957-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



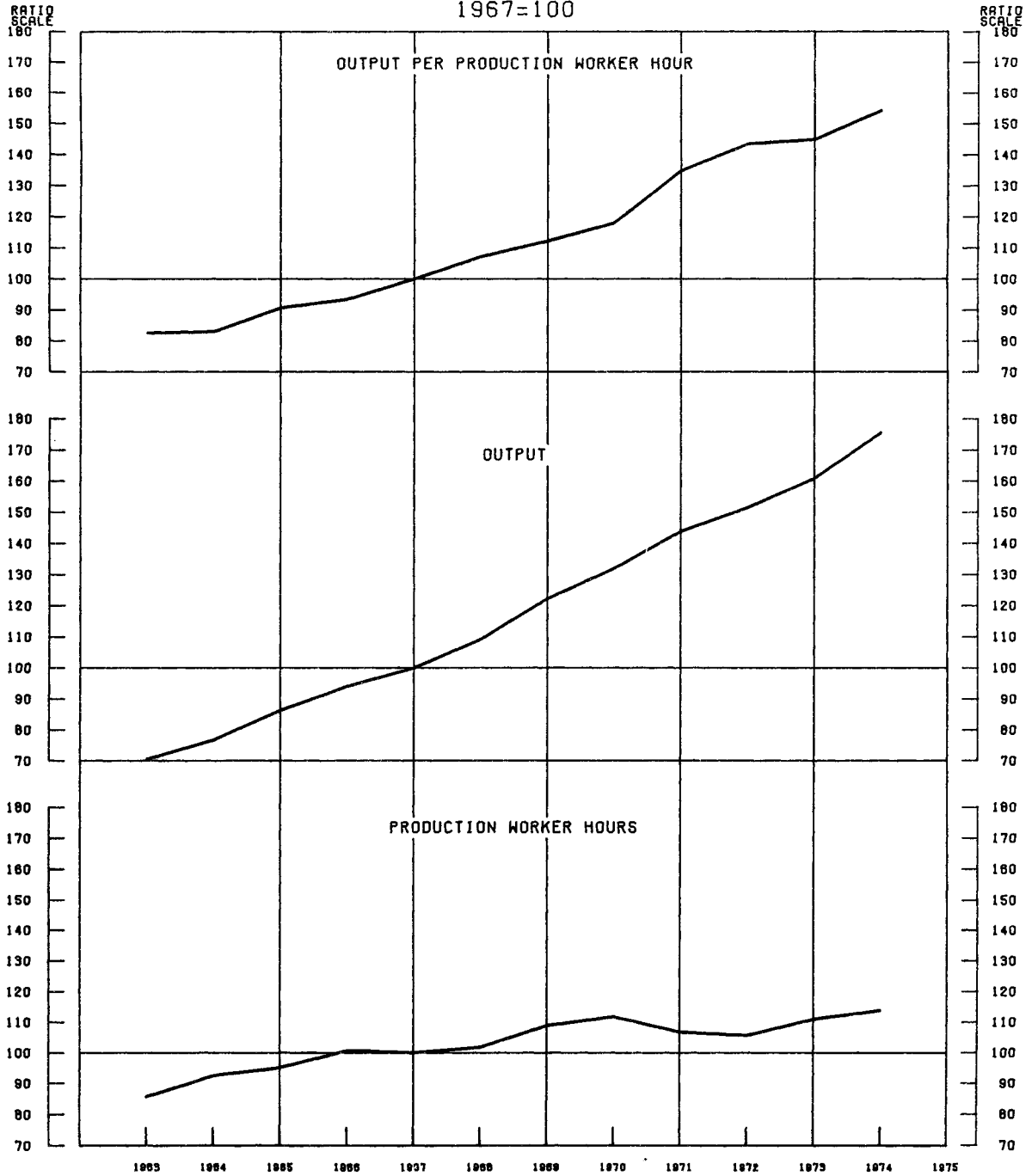
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 36
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



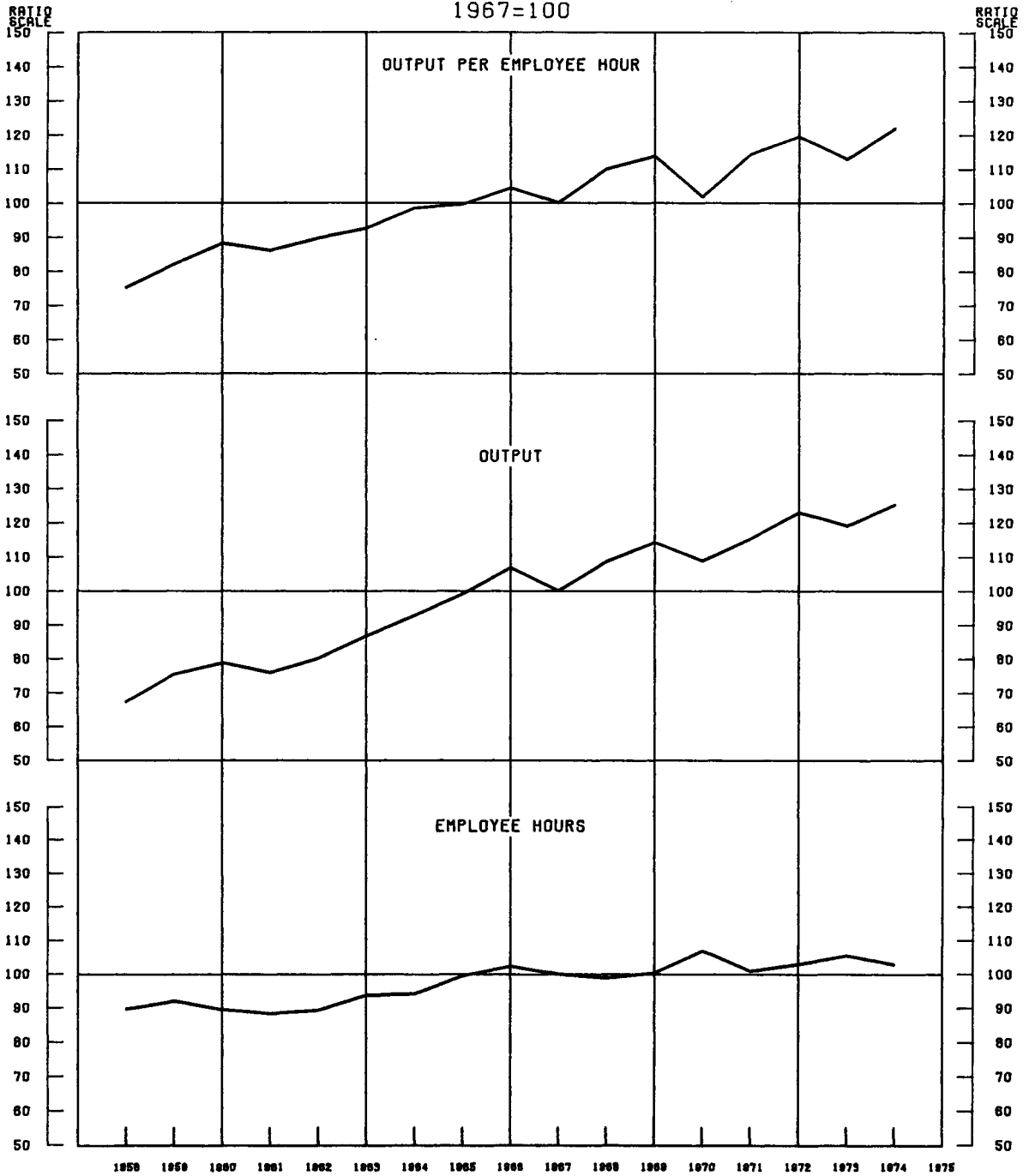
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 37
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



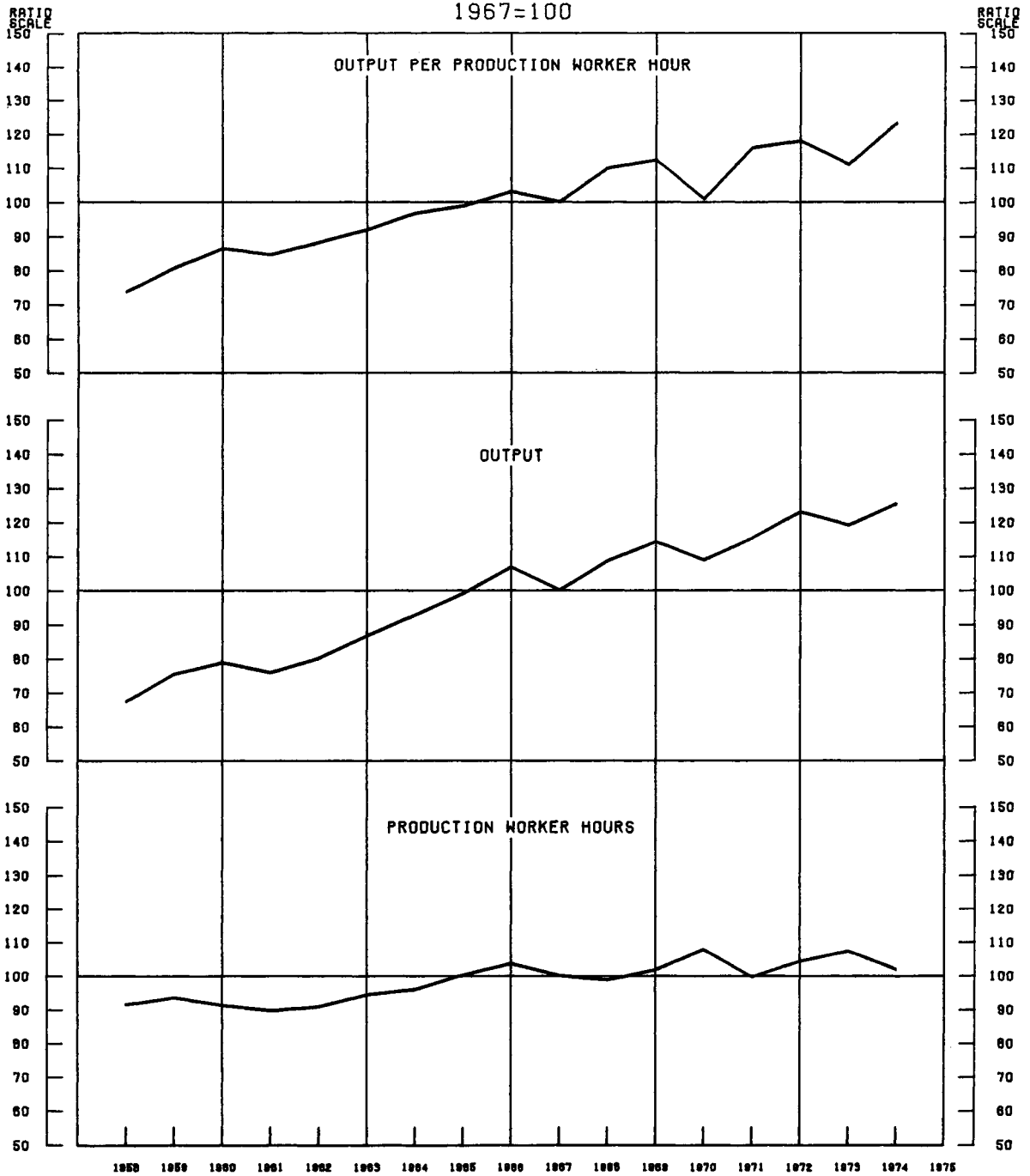
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 38
 PAINTS AND ALLIED PRODUCTS (SIC 2851), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



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

CHART 39
 PAINTS AND ALLIED PRODUCTS (SIC 2851), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



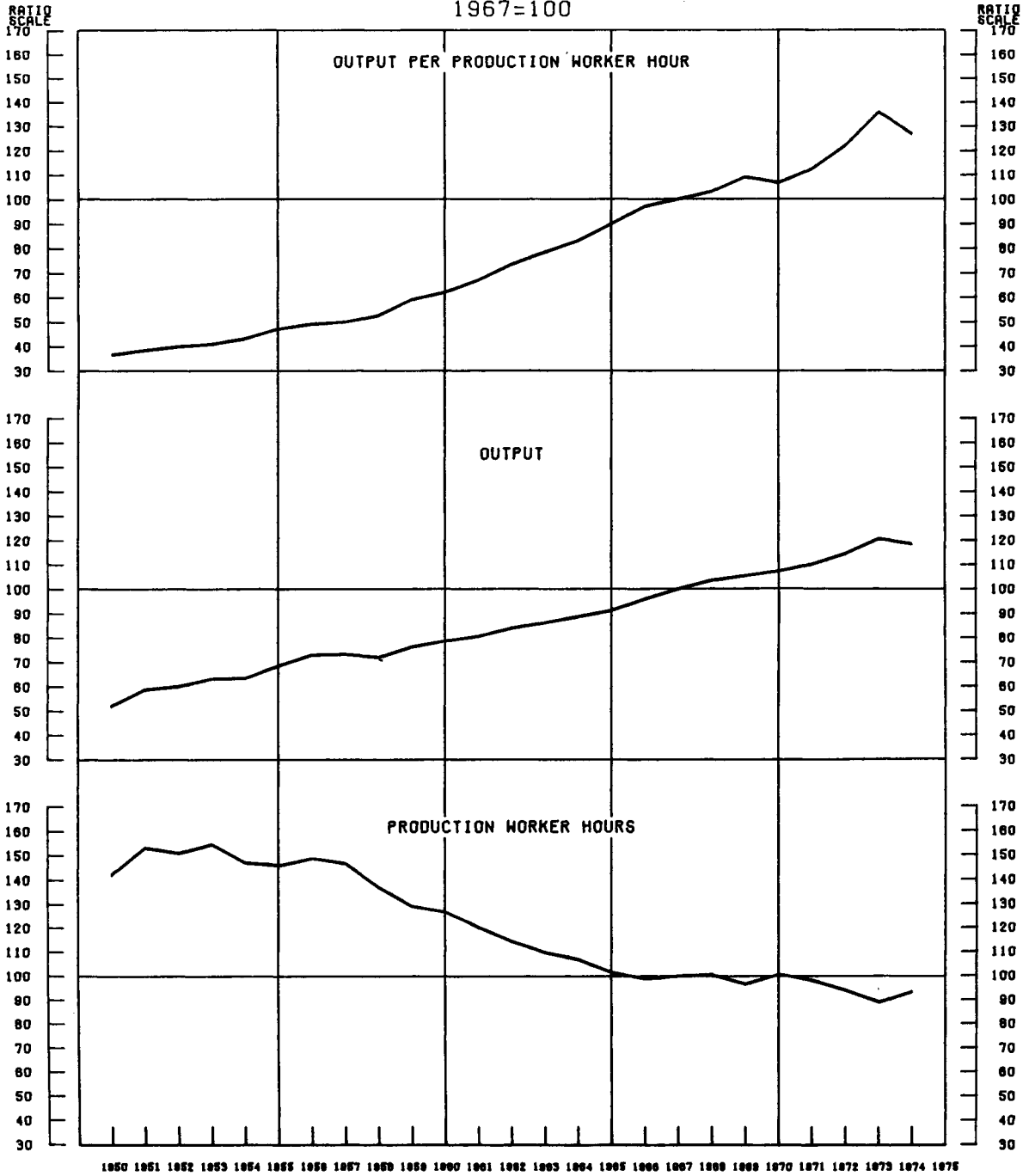
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 40
 PETROLEUM REFINING (SIC 2911), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



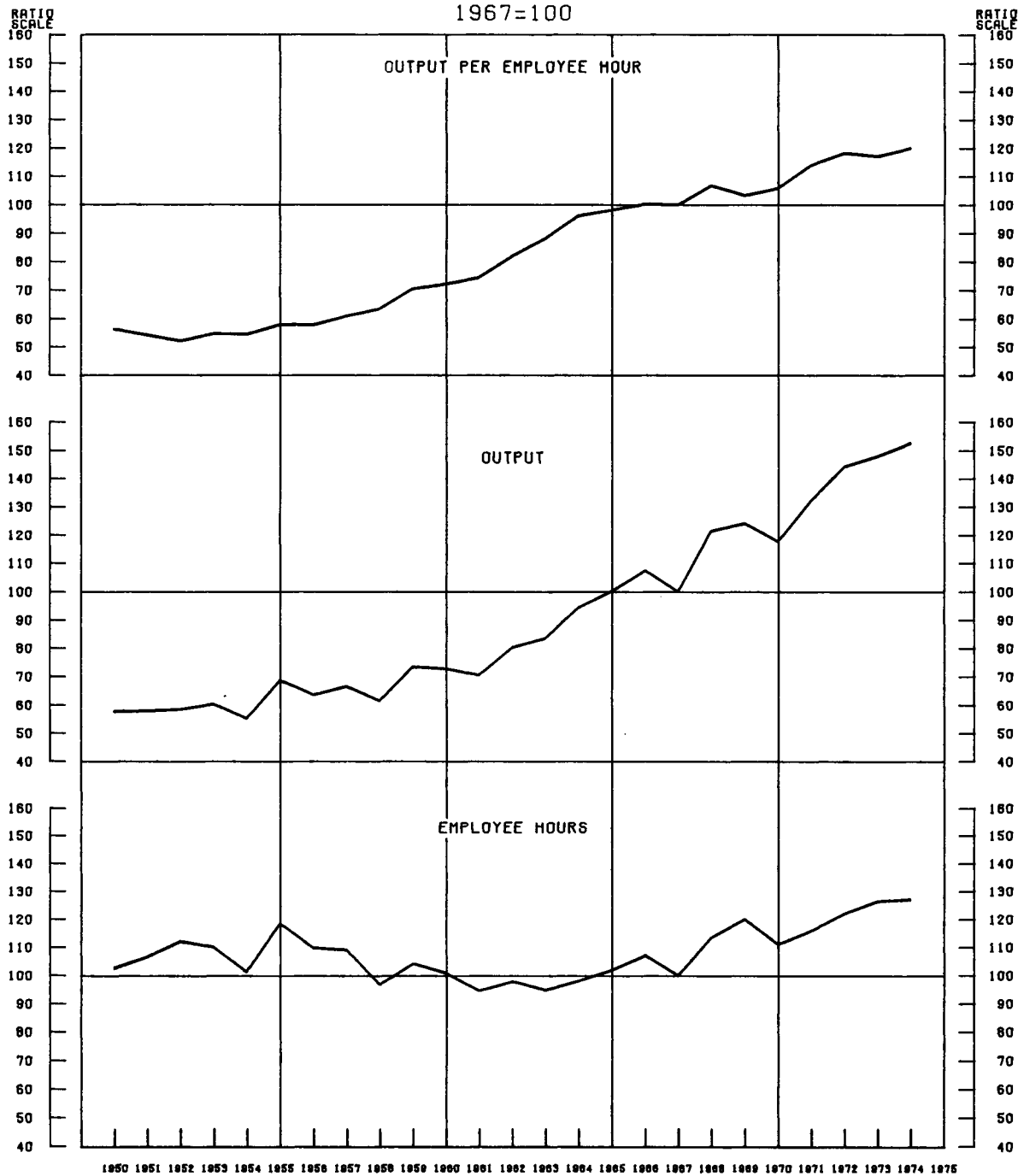
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 41
 PETROLEUM REFINING (SIC 2911), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



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

CHART 42
 TIRES AND INNER TUBES (SIC 3011), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



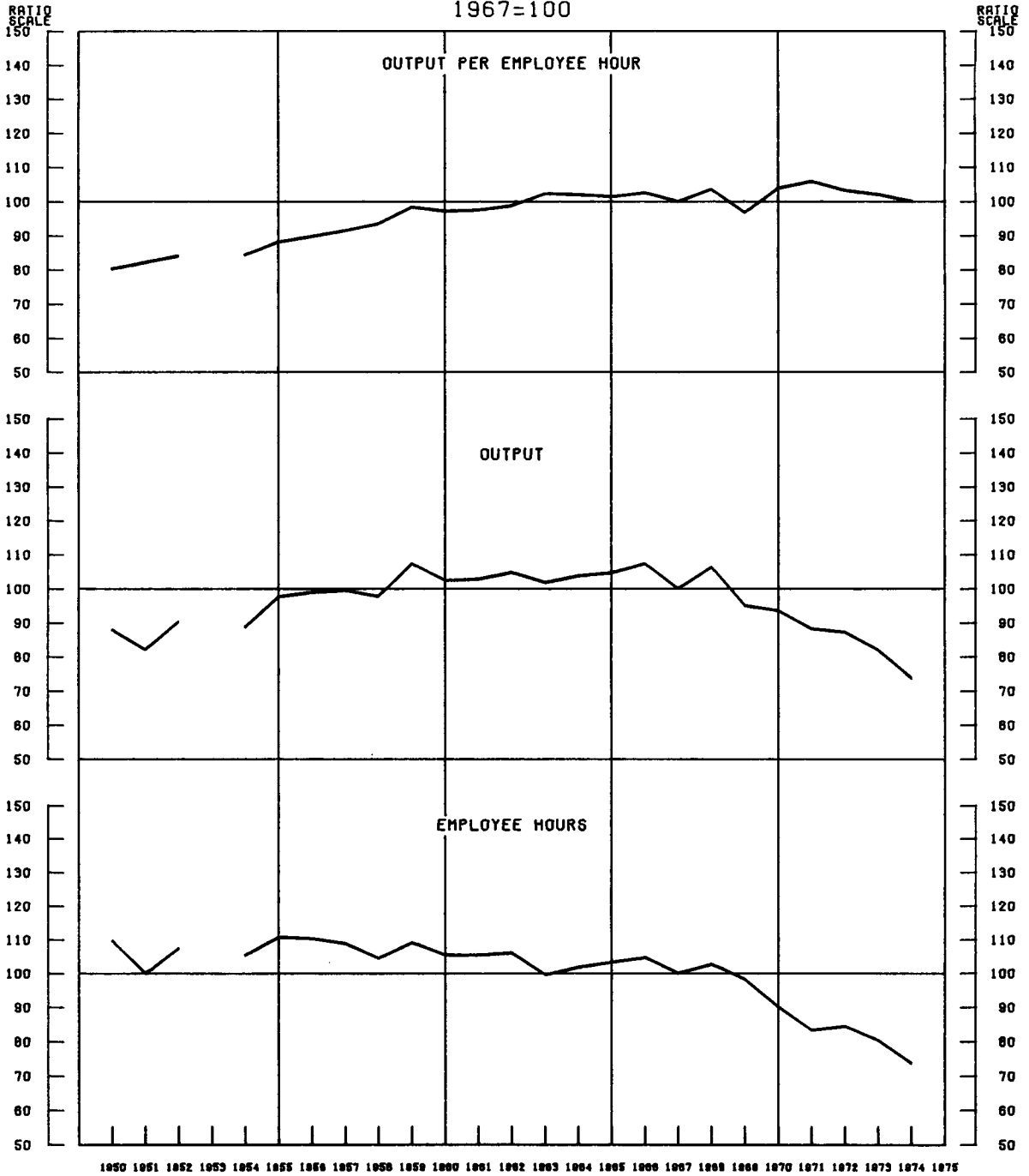
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 43
 TIRES AND INNER TUBES (SIC 3011), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



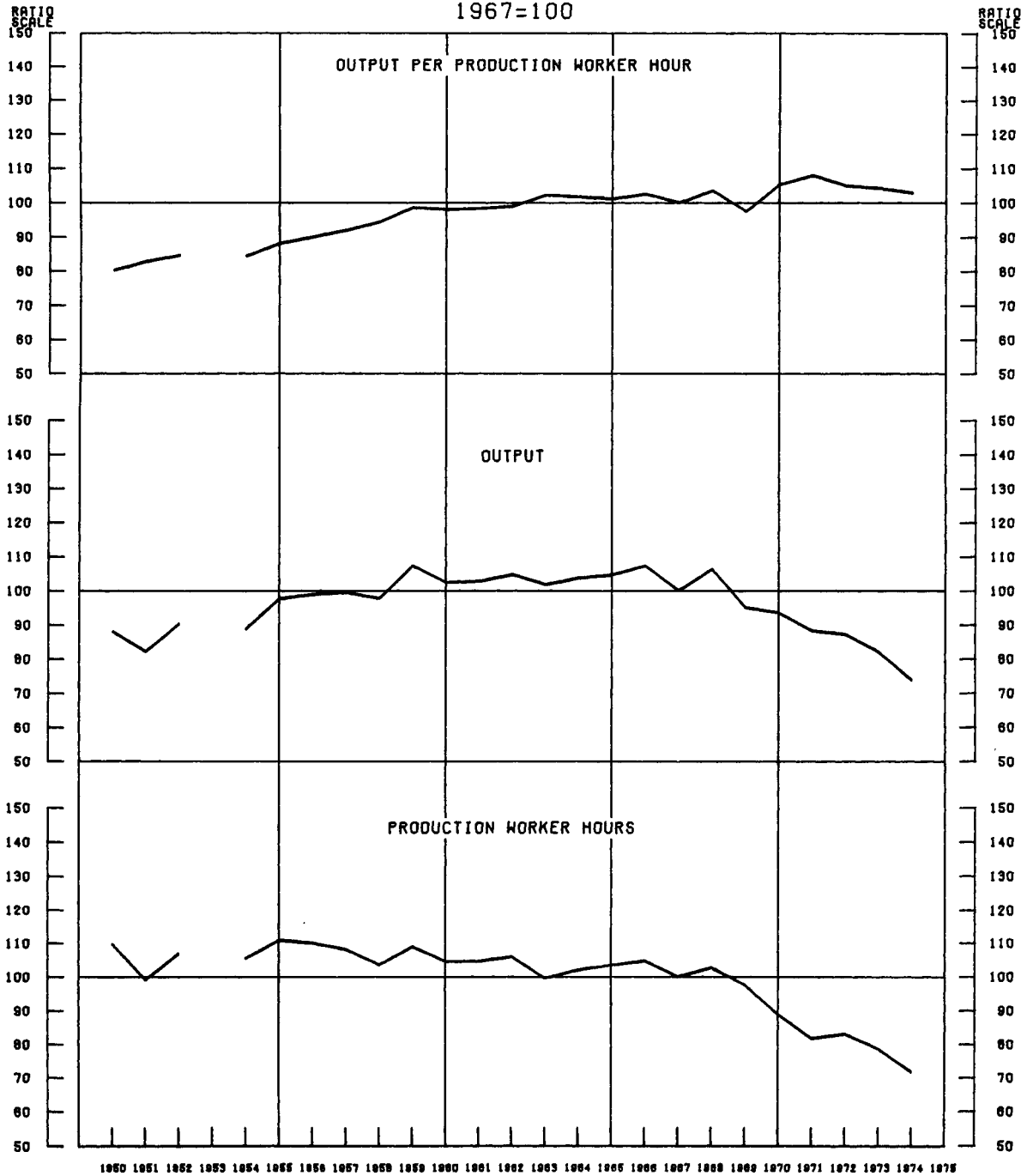
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 44
 FOOTWEAR (SIC 314), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



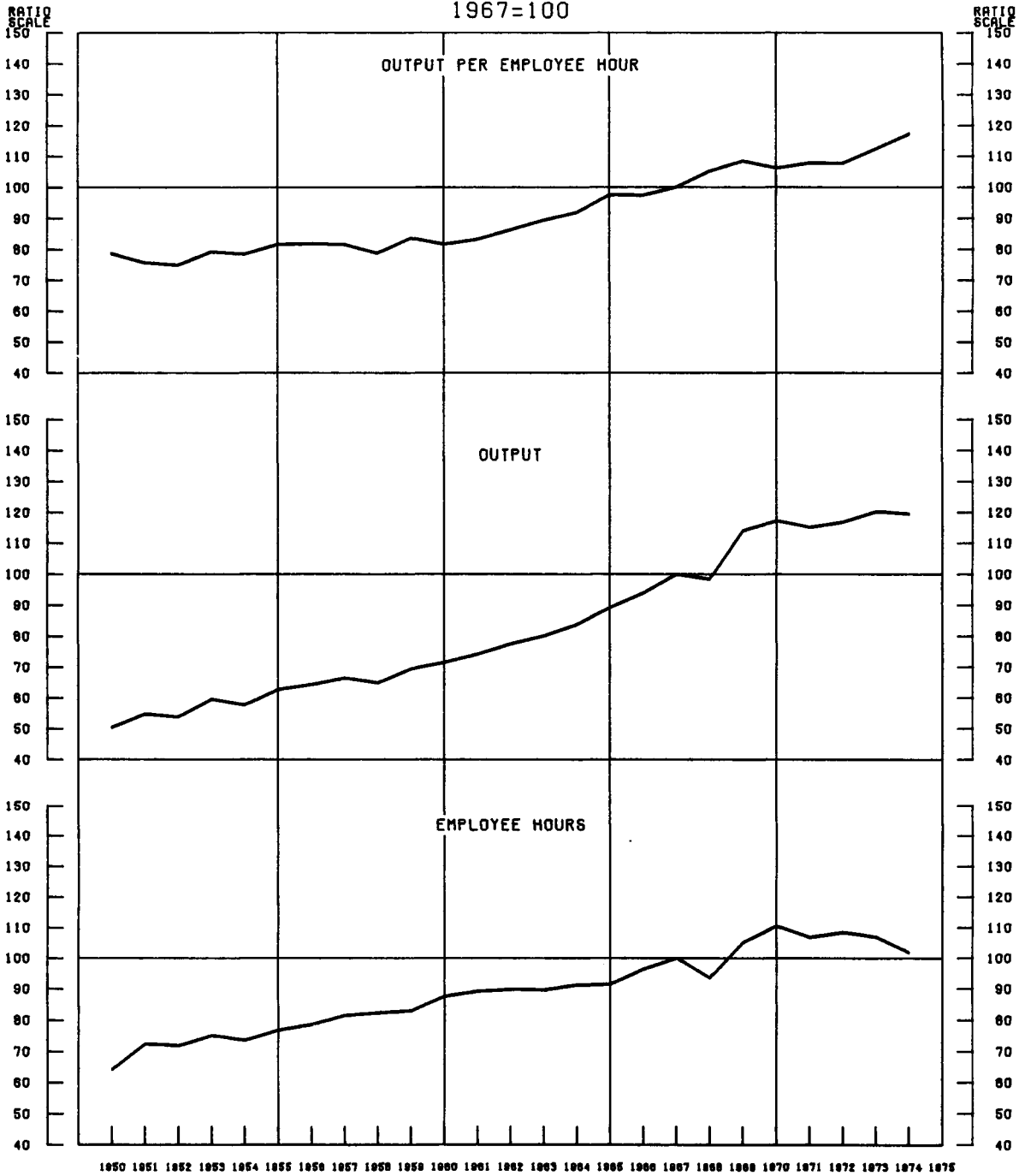
NOTE: Where series are not continuous, data are not available.
 SOURCE—U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 45
 FOOTWEAR (SIC 314), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



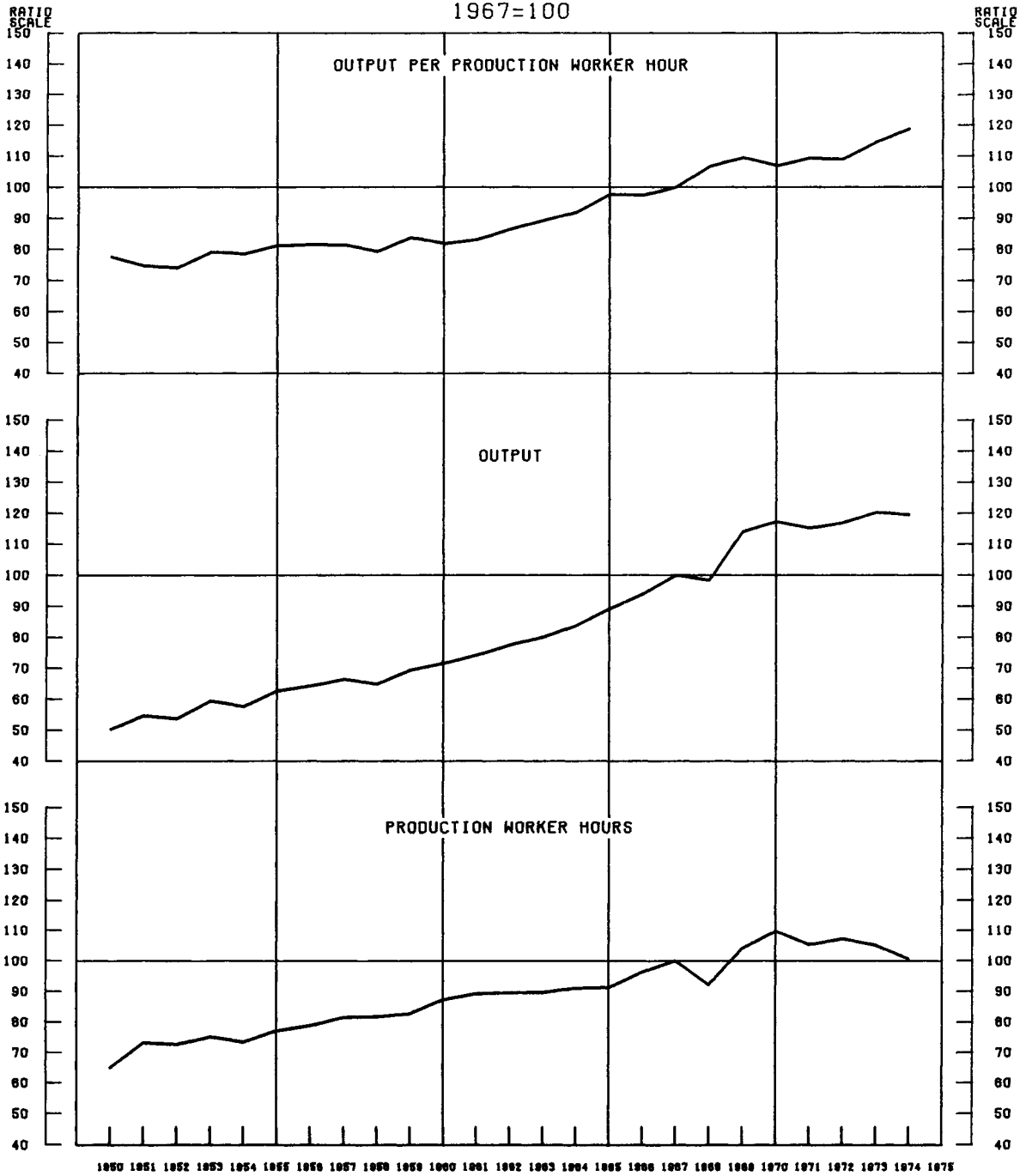
NOTE: Where series are not continuous, data are not available.
 SOURCE—U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 46
 GLASS CONTAINERS (SIC 3221), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



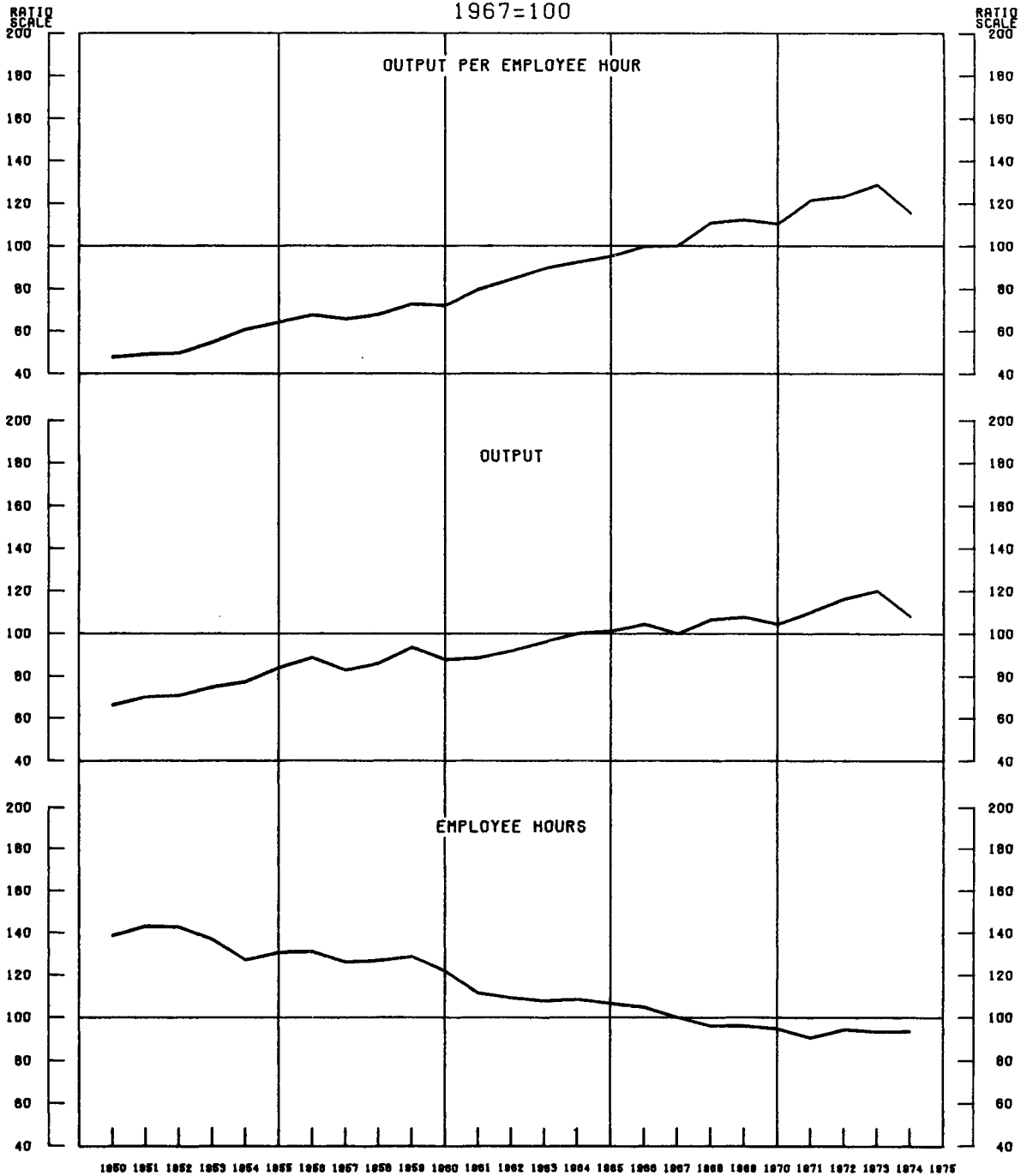
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 47
 GLASS CONTAINERS (SIC 3221), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



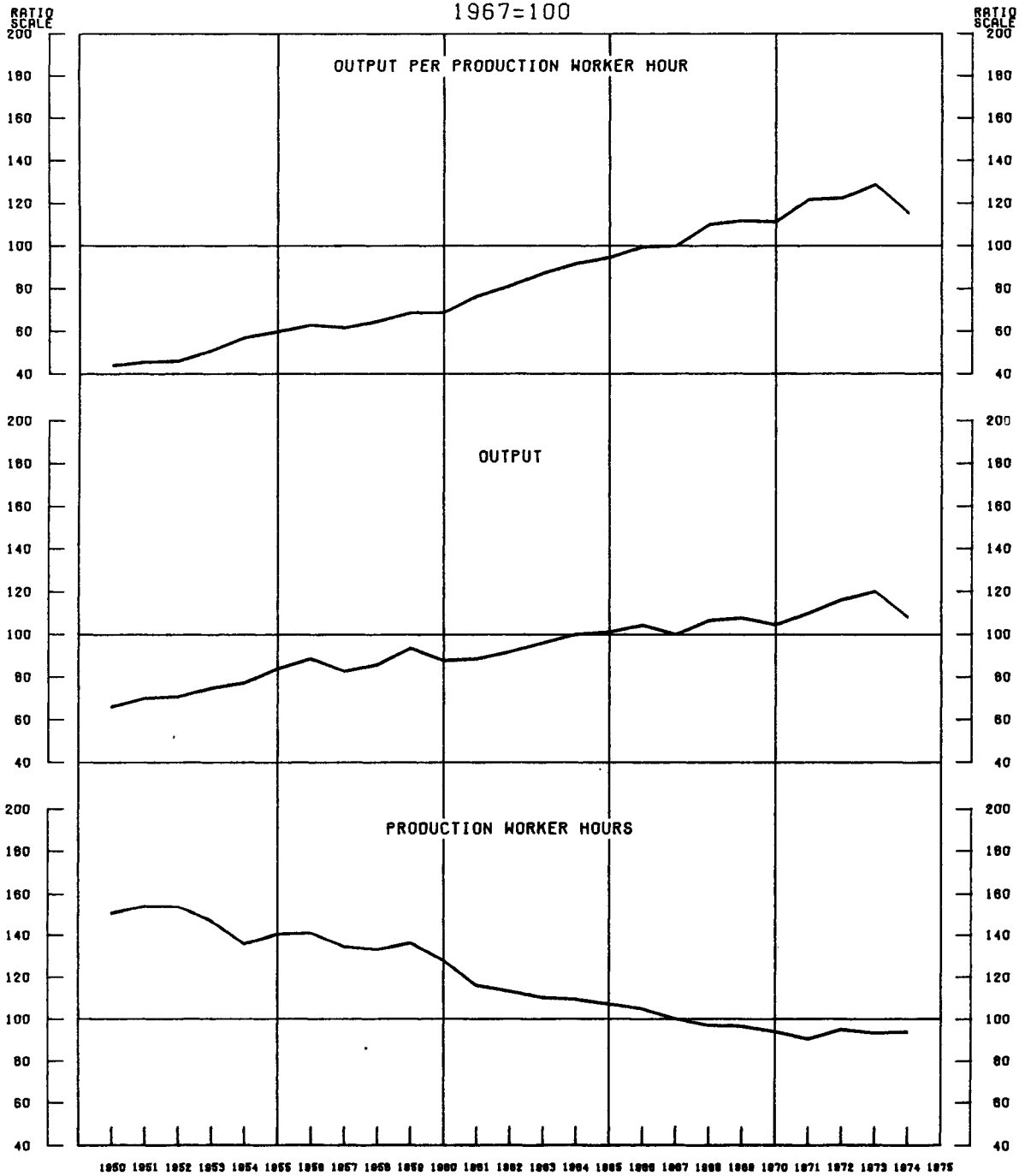
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 48
 HYDRAULIC CEMENT (SIC 3241), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



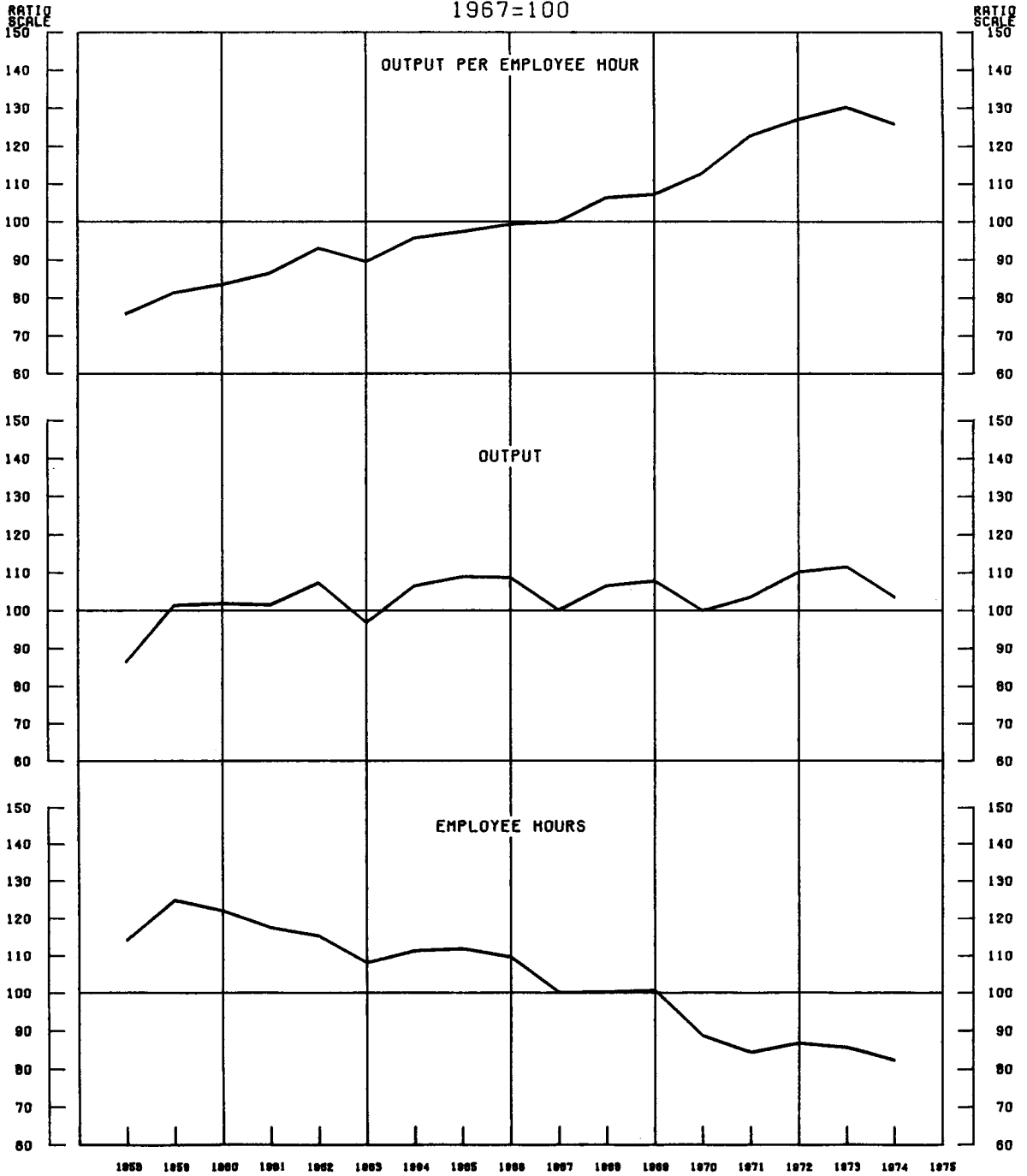
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 49
 HYDRAULIC CEMENT (SIC 3241), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



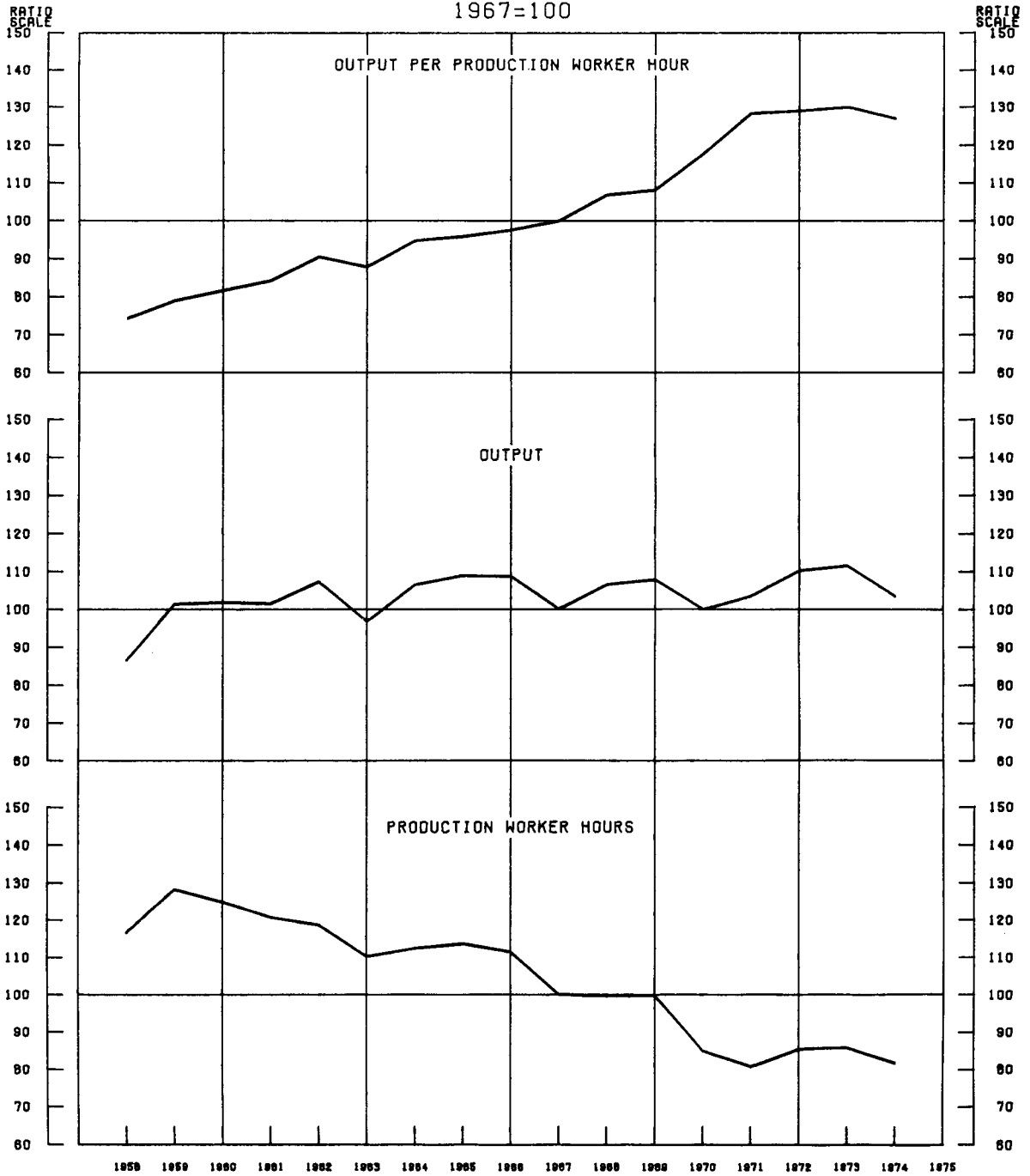
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 50
 STRUCTURAL CLAY PRODUCTS (SIC 325), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



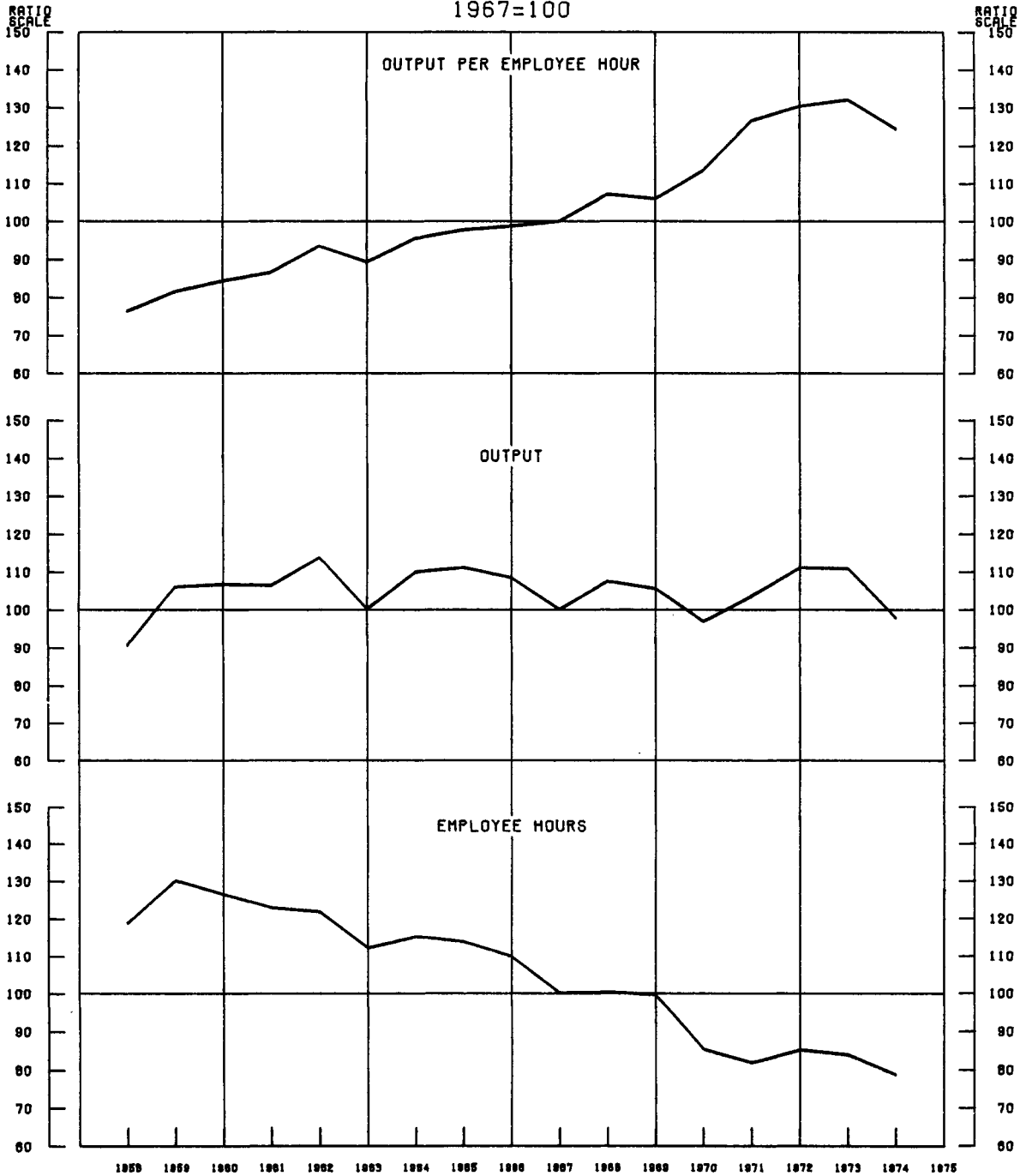
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 51
 STRUCTURAL CLAY PRODUCTS (SIC 325), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



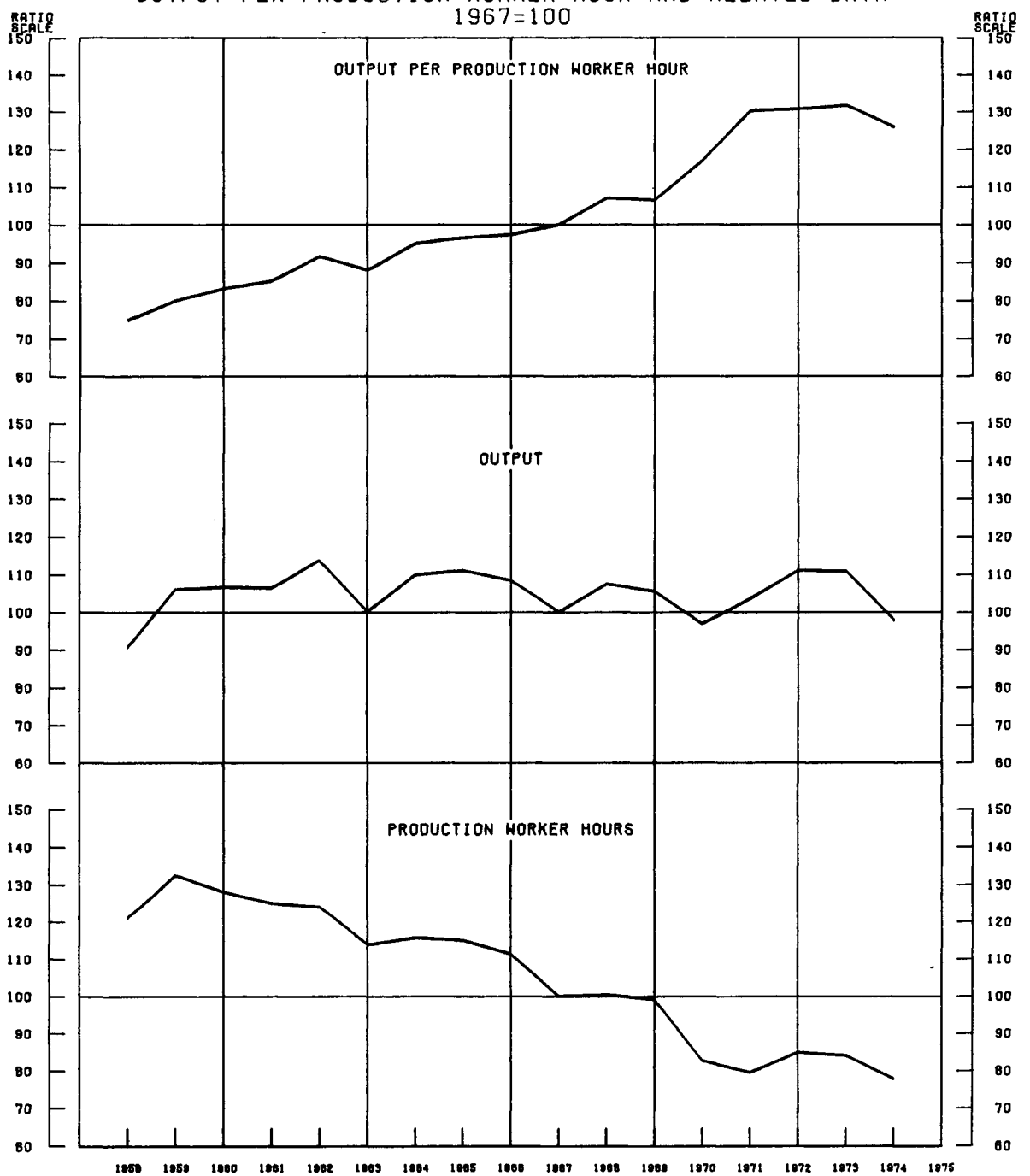
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 52
 CLAY CONSTRUCTION PRODUCTS (SIC 3251, 3253, 3259), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



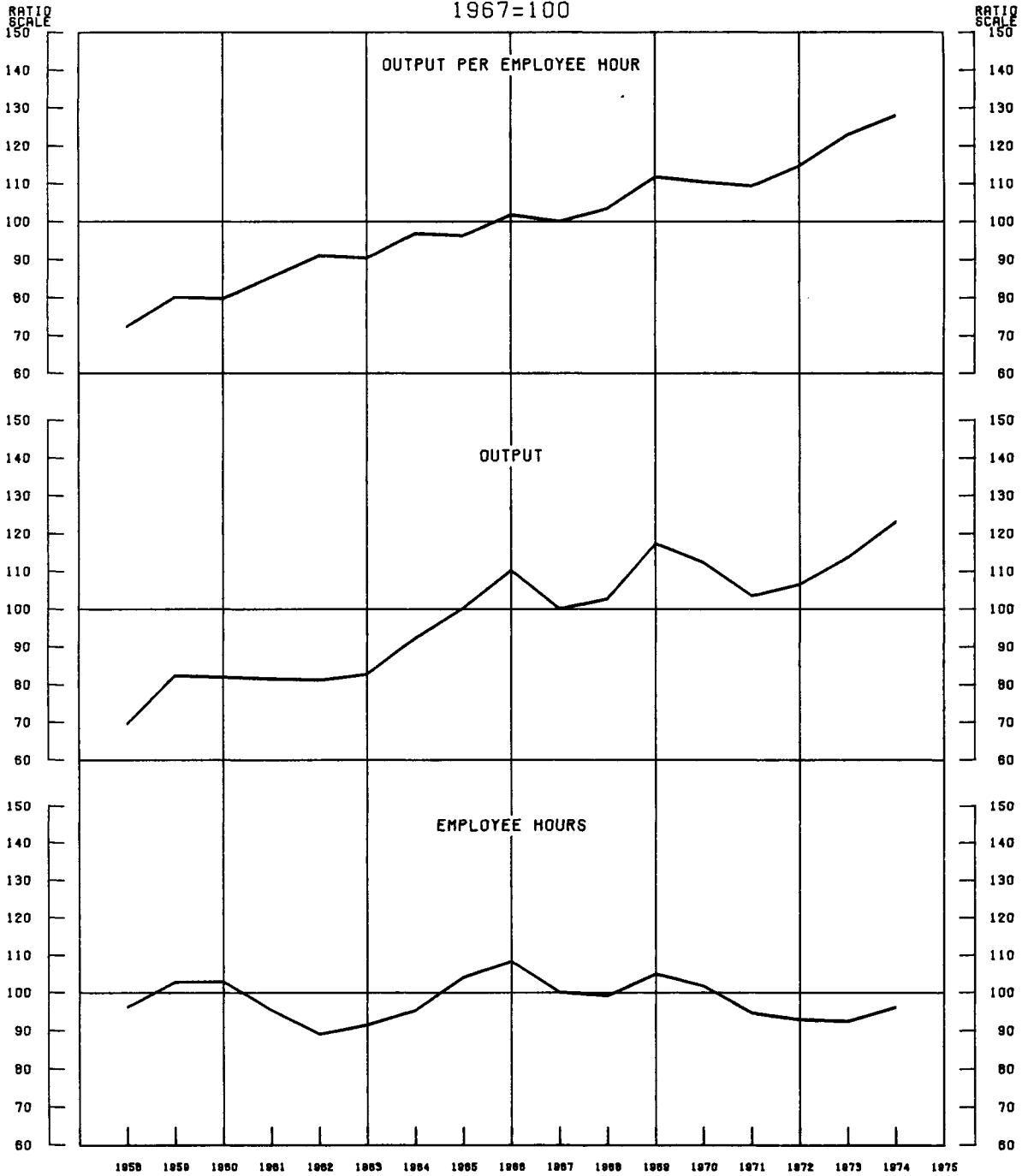
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 53
 CLAY CONSTRUCTION PRODUCTS (SIC 3251, 3253, 3259), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



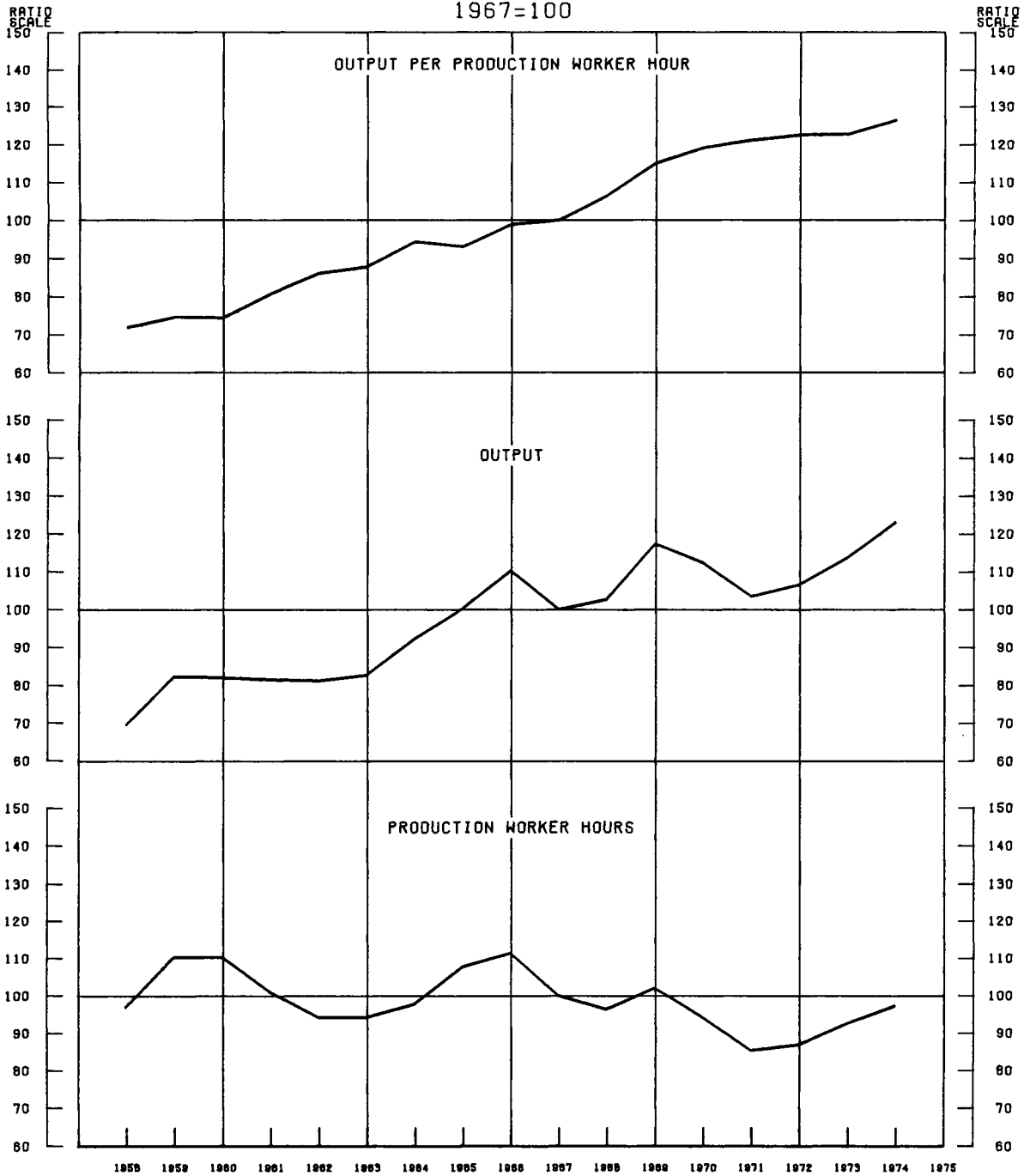
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 54
 CLAY REFRACTORIES (SIC 3255), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



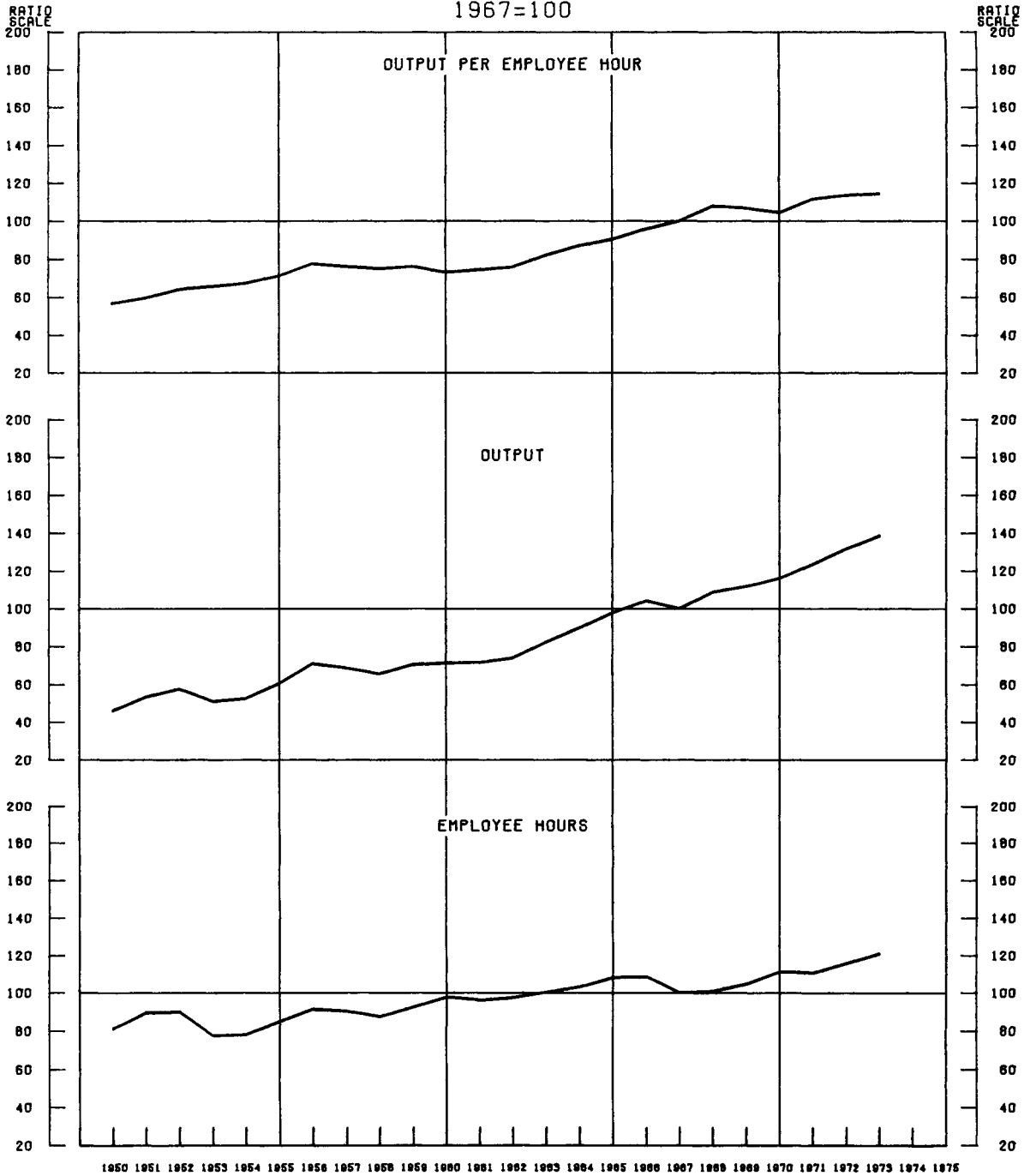
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 55
 CLAY REFRACTORIES (SIC 3255), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



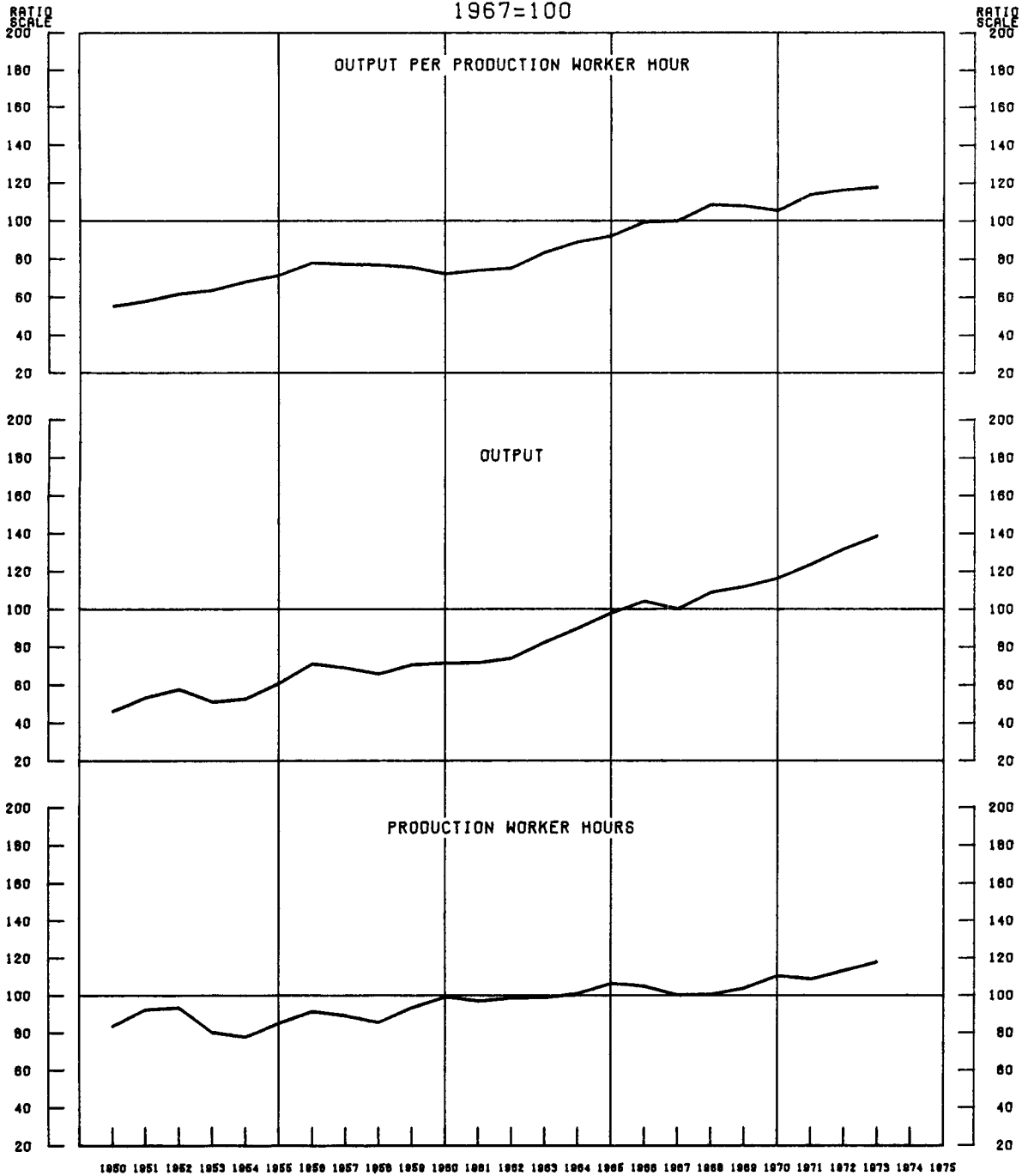
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 56
 CONCRETE PRODUCTS (SIC 3271, 3272), 1950-73
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



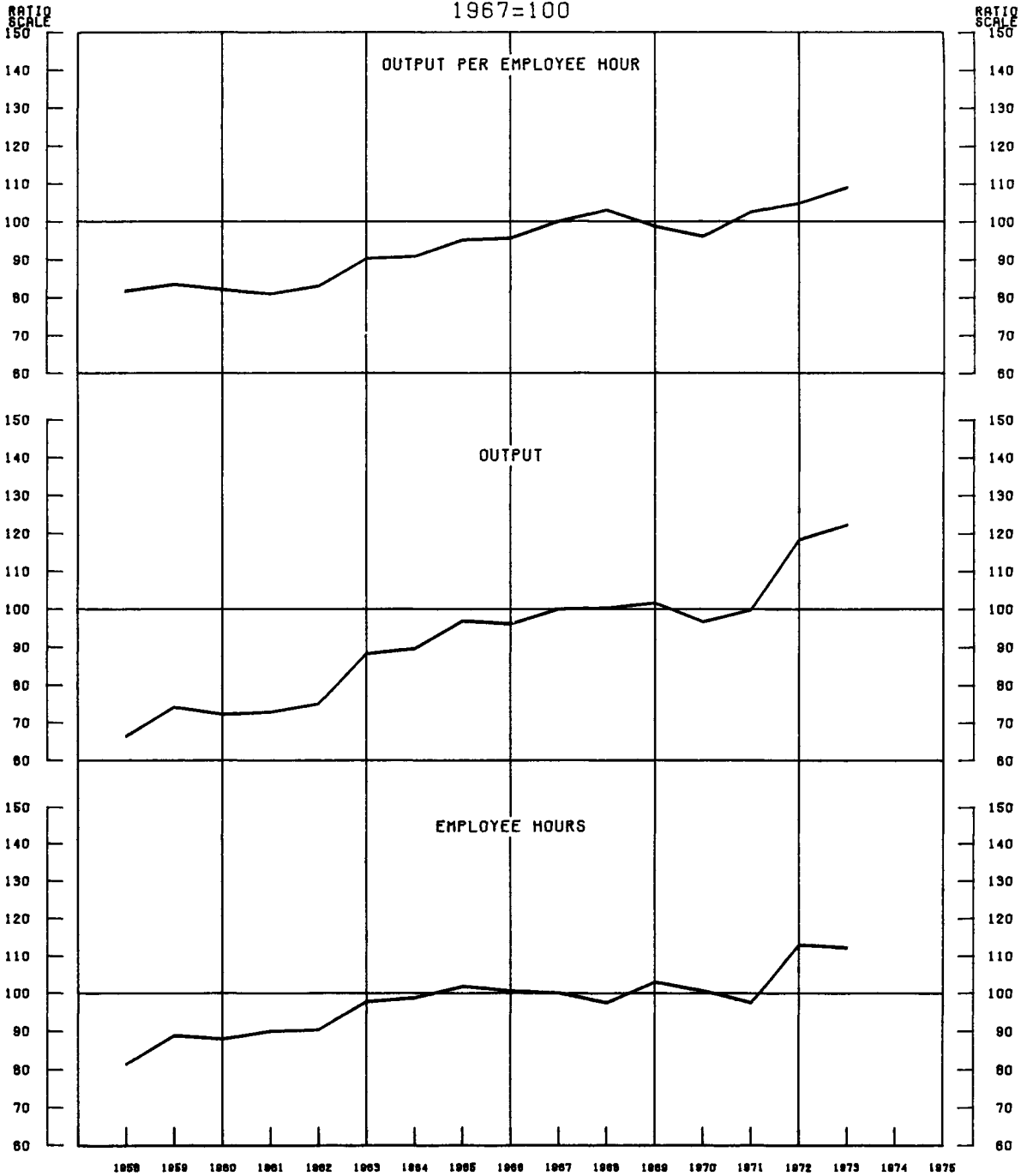
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 57
 CONCRETE PRODUCTS (SIC 3271, 3272), 1950-73
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



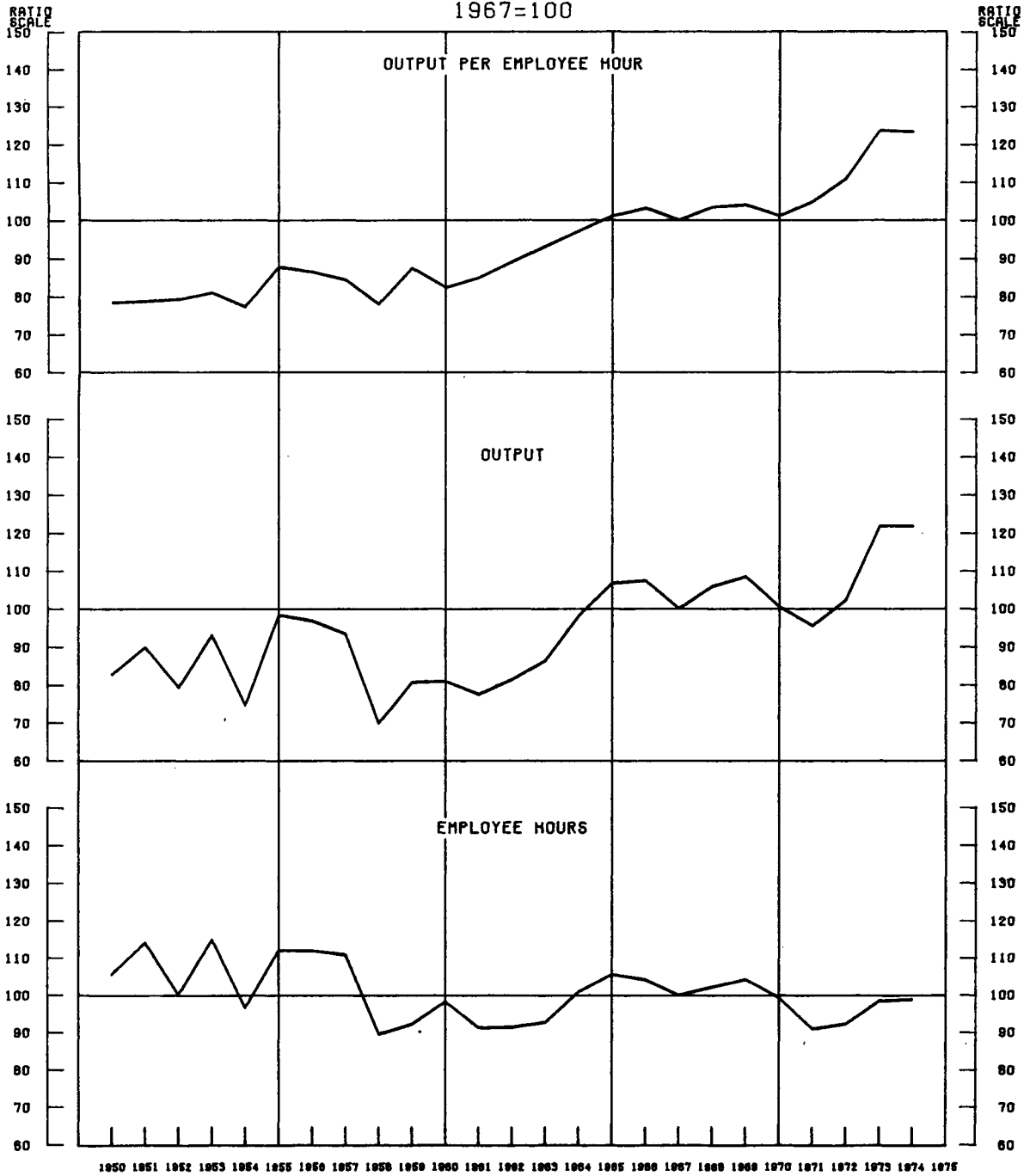
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 58
 READY-MIXED CONCRETE (SIC 3273), 1958-73
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



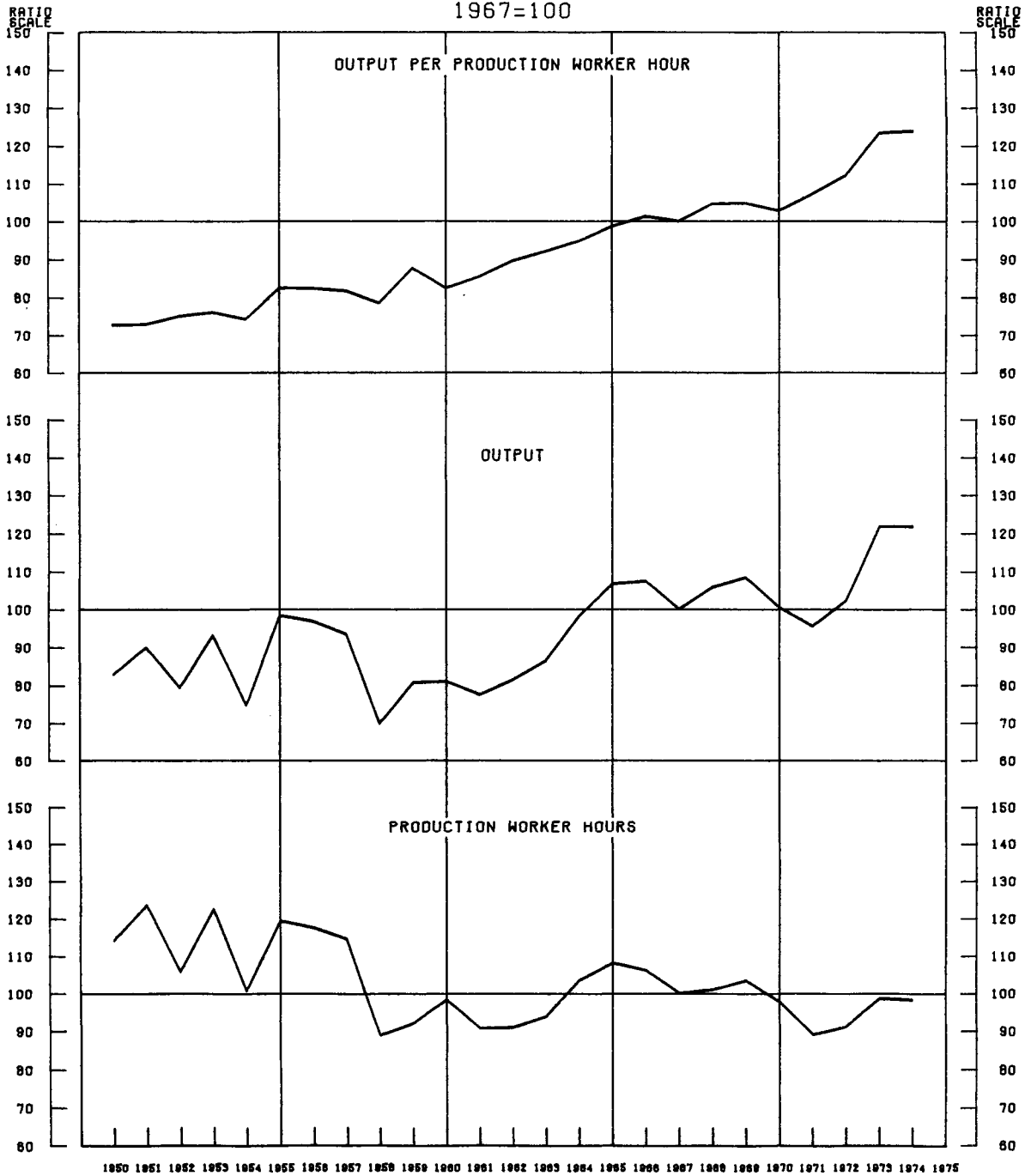
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 59
 STEEL (SIC 331), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



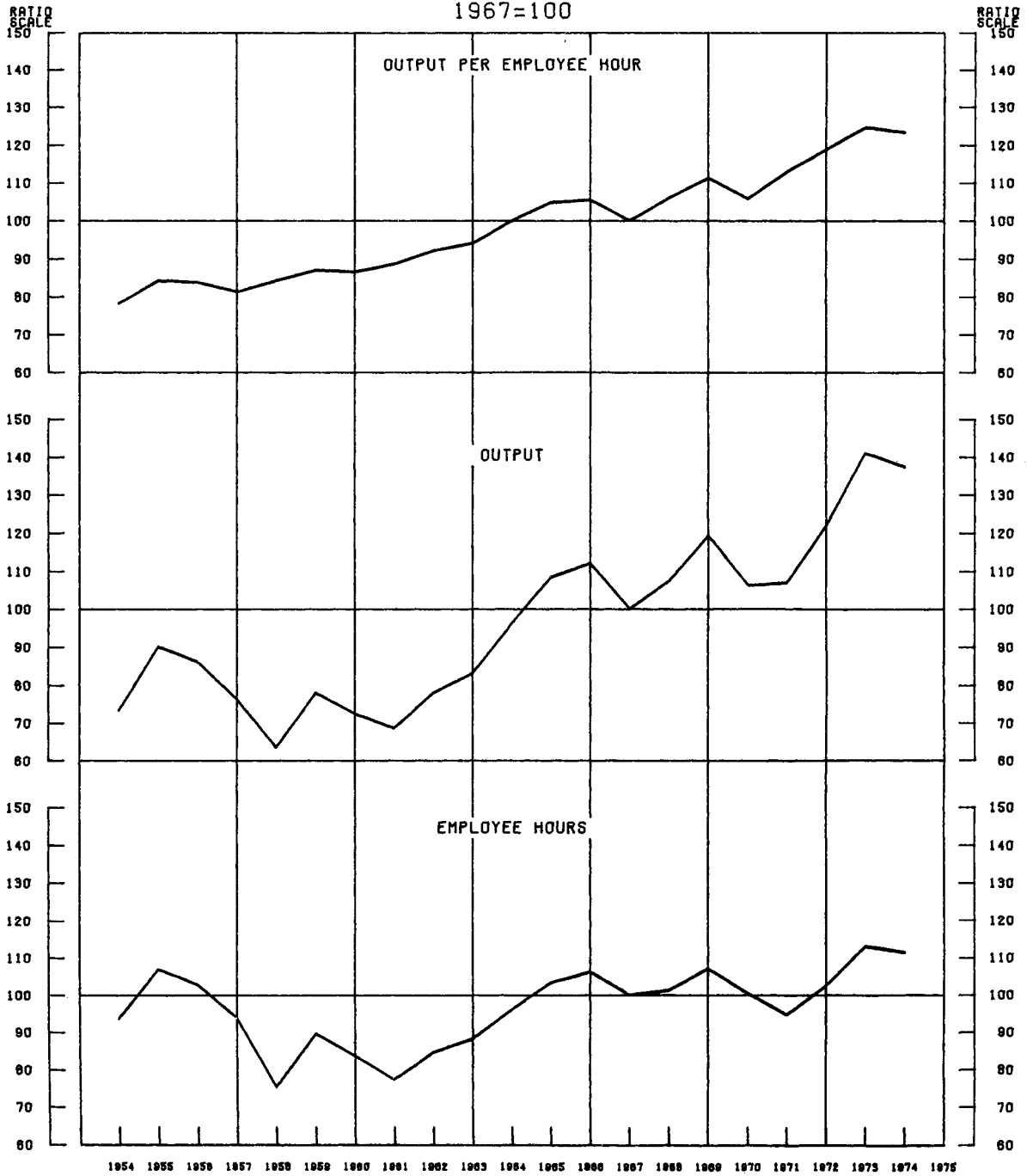
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 60
 STEEL (SIC 331), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



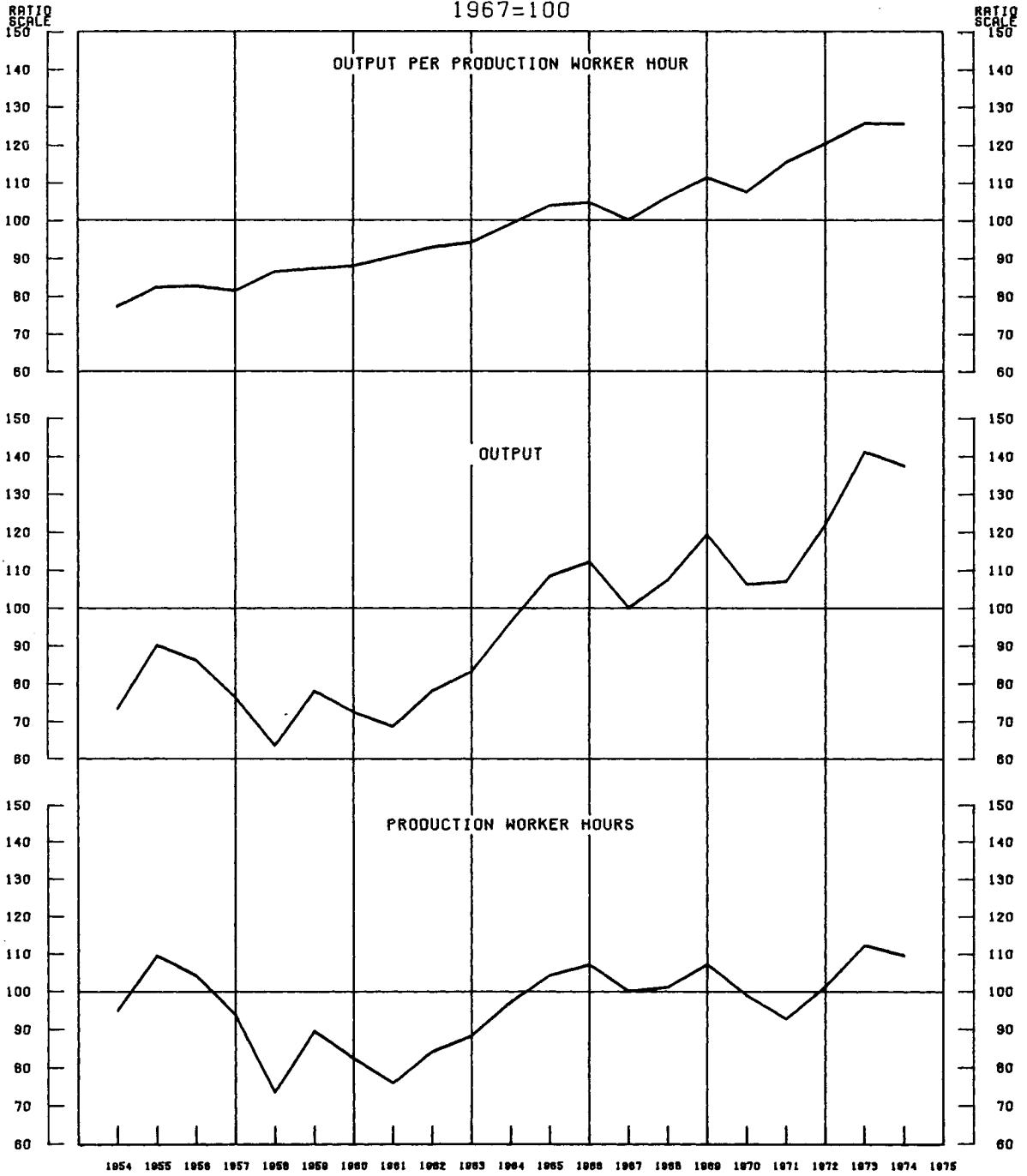
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 61
 GRAY IRON FOUNDRIES (SIC 3321), 1954-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



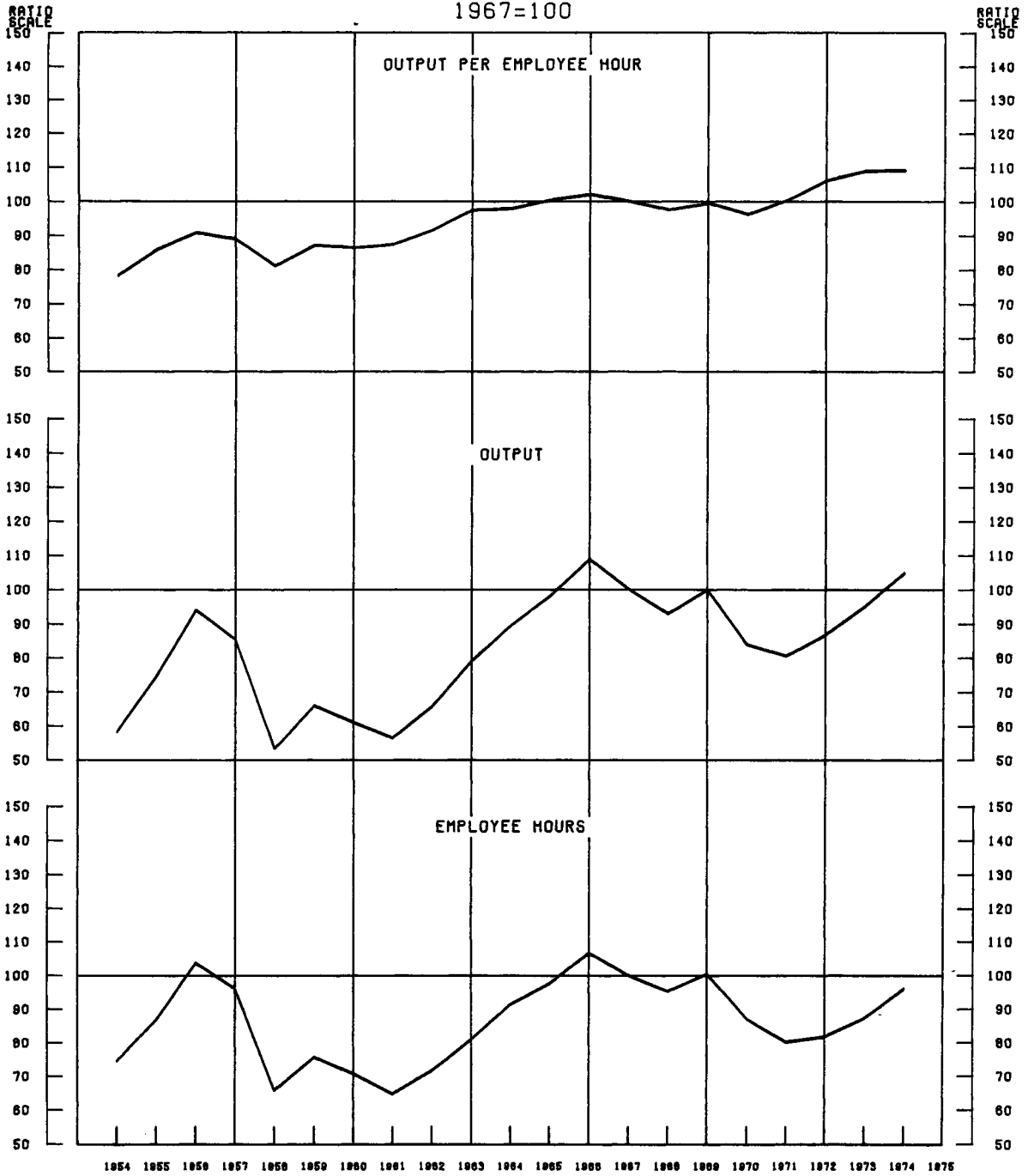
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 62
 GRAY IRON FOUNDRIES (SIC 3321), 1954-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



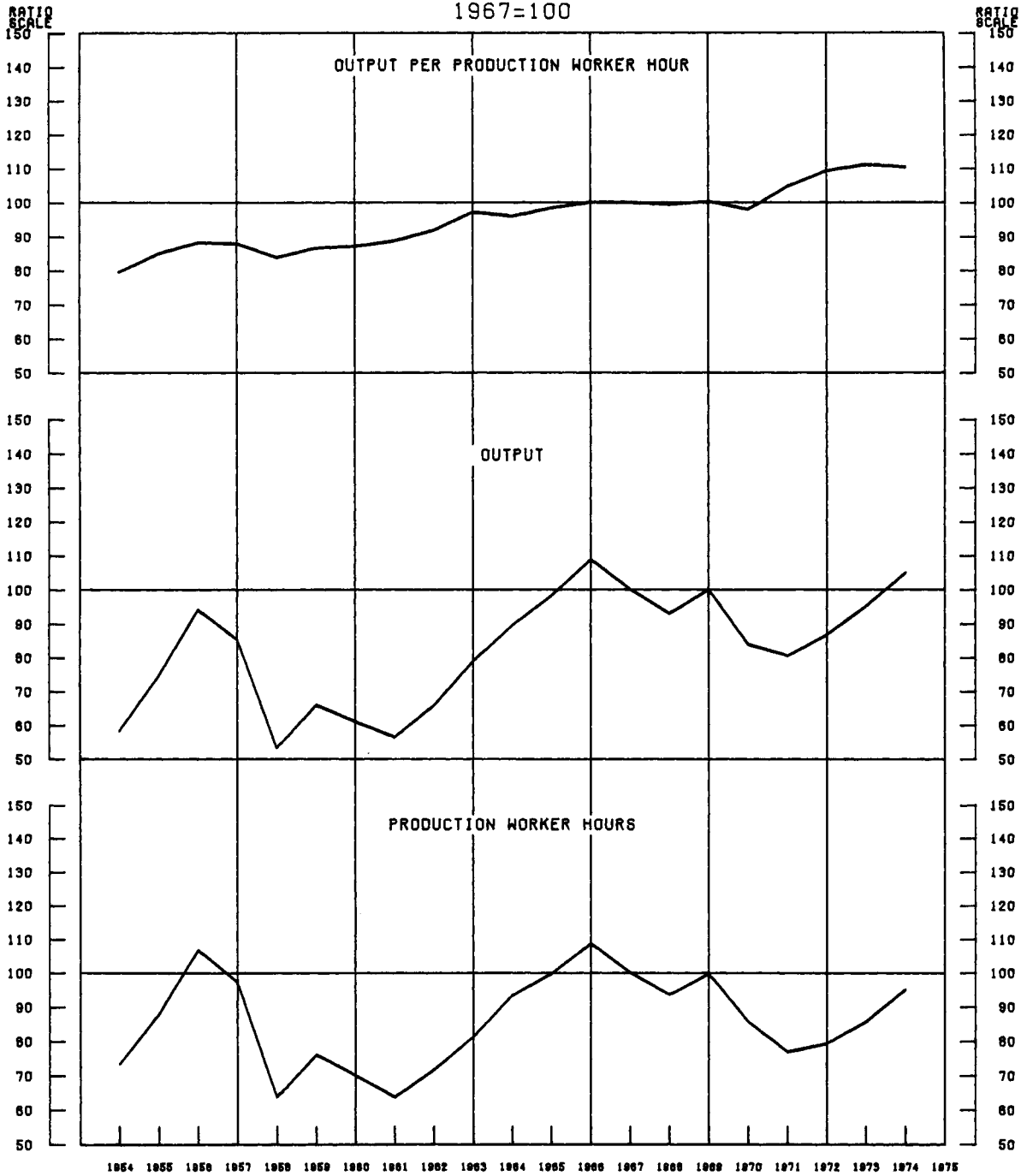
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 63
 STEEL FOUNDRIES (SIC 3324, 3325), 1954-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



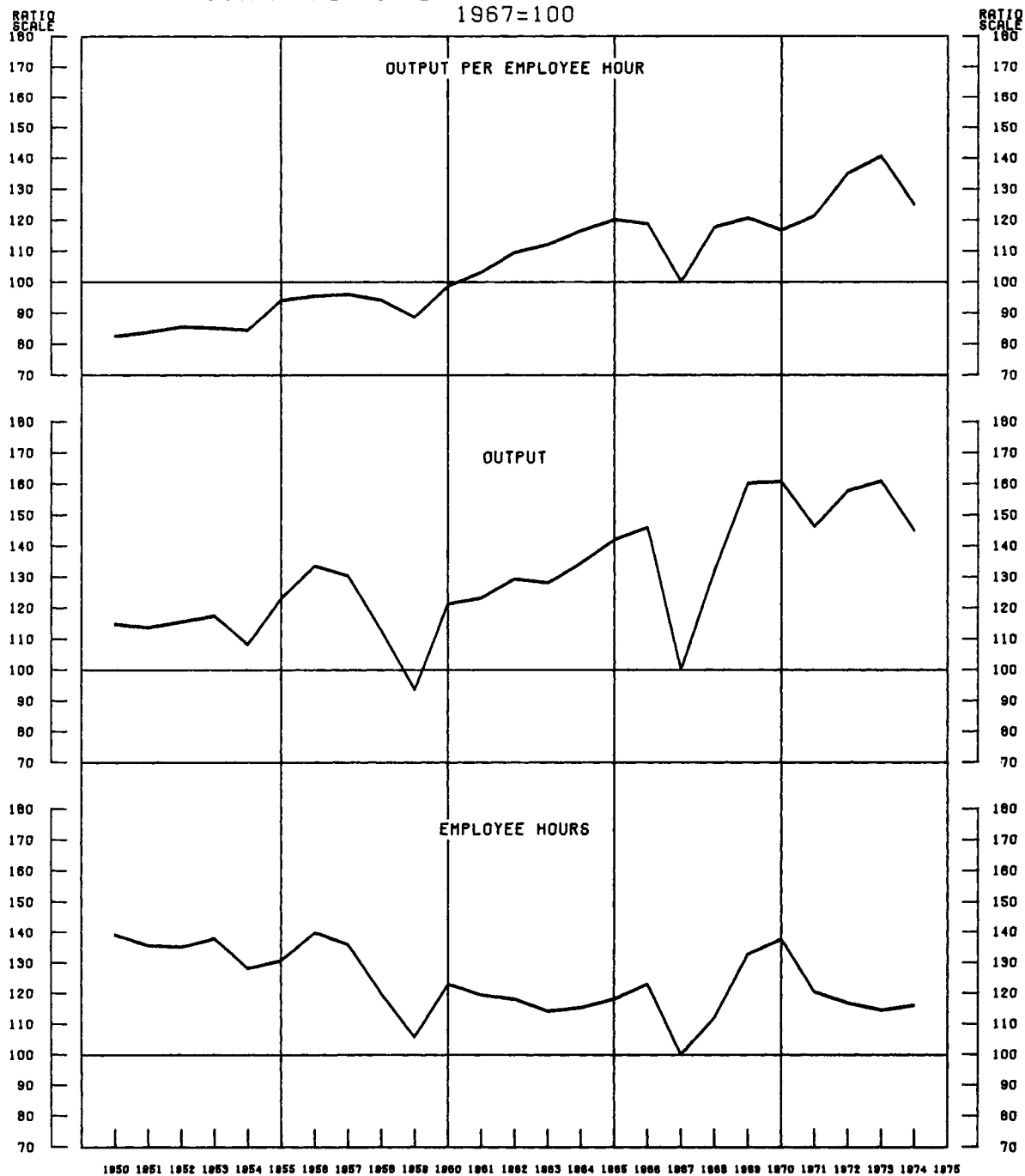
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS-

CHART 64
 STEEL FOUNDRIES (SIC 3324, 3325), 1954-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



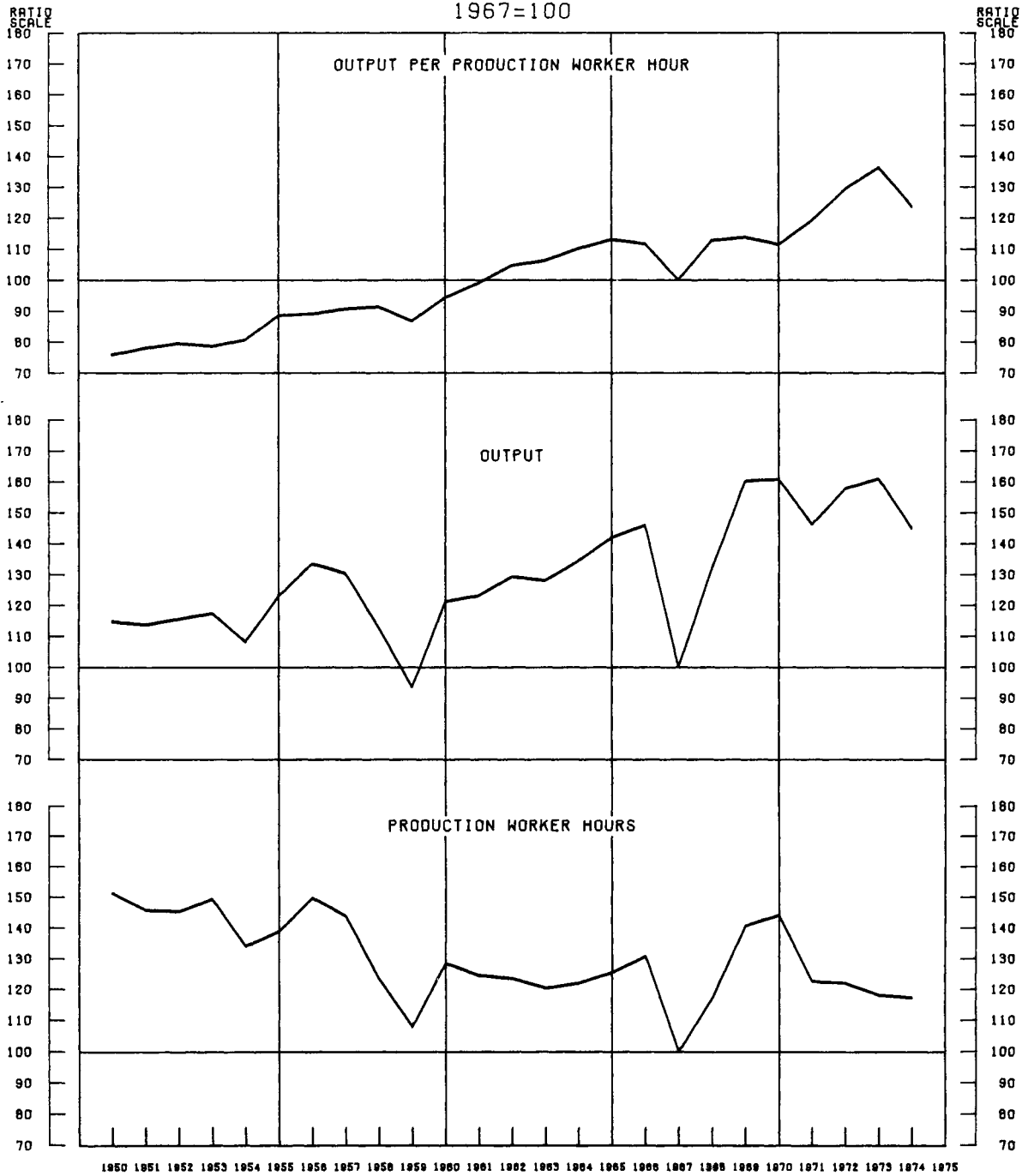
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 65
 PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



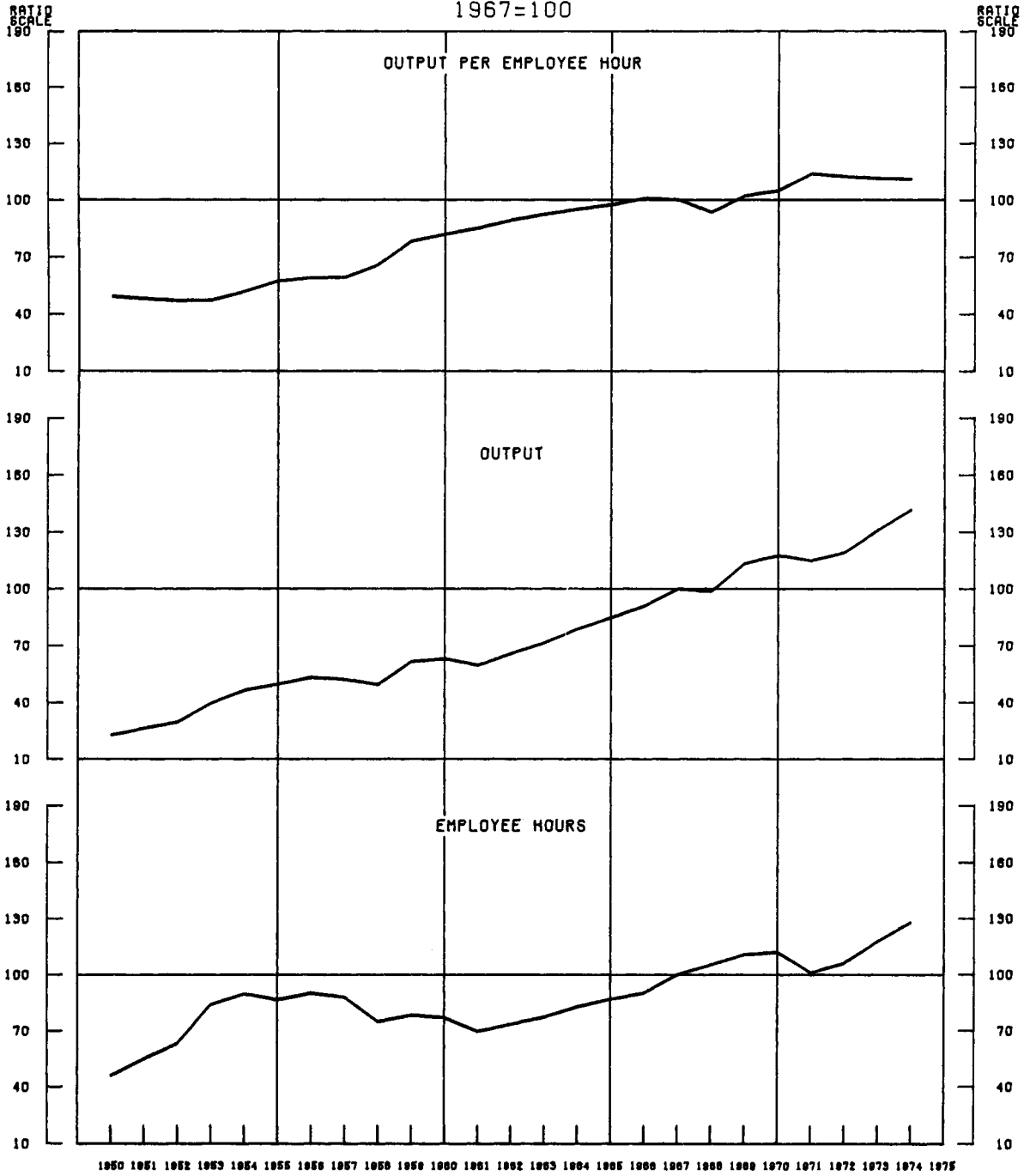
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 66
 PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



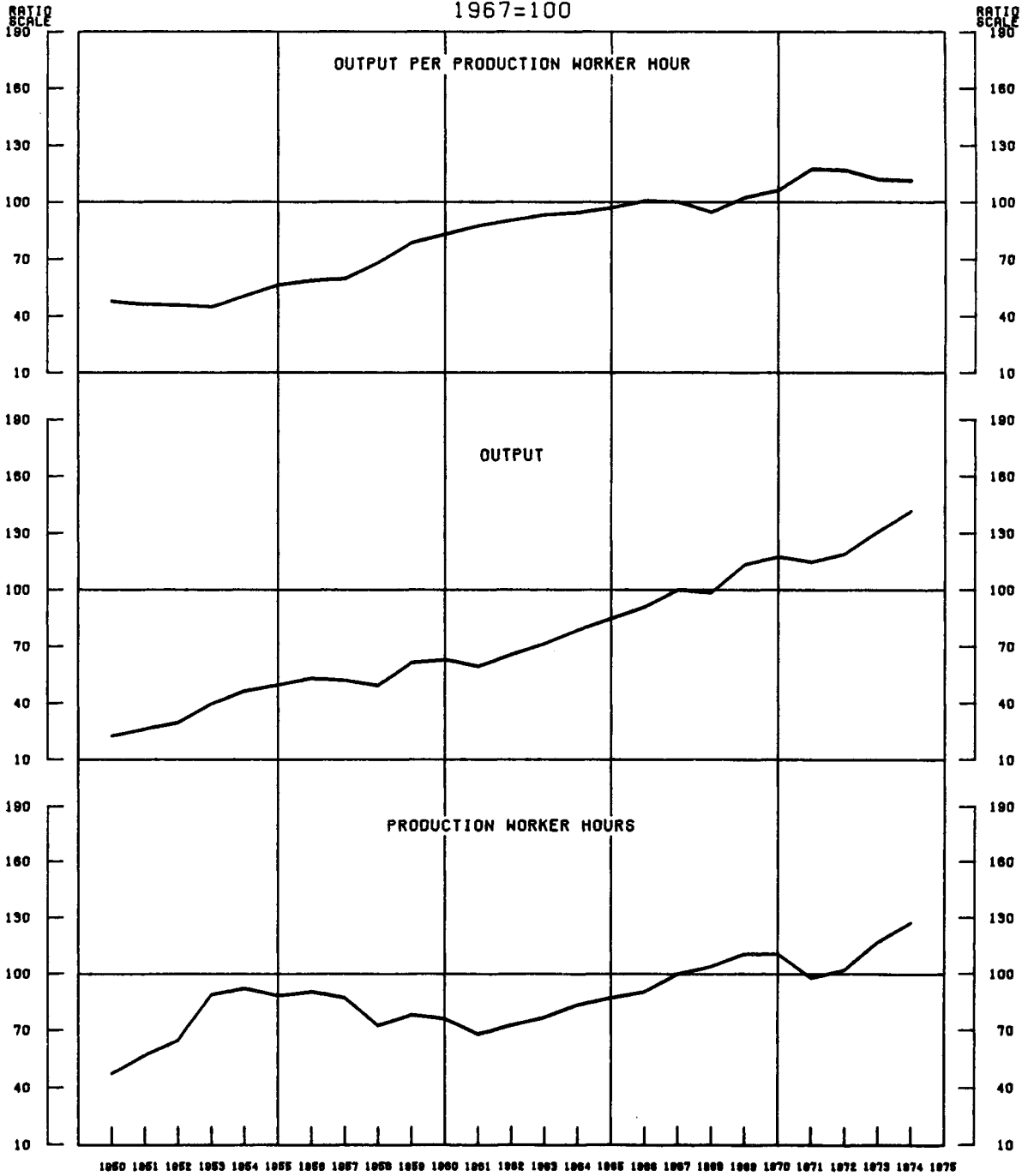
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 67
 PRIMARY ALUMINUM (SIC 3334), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



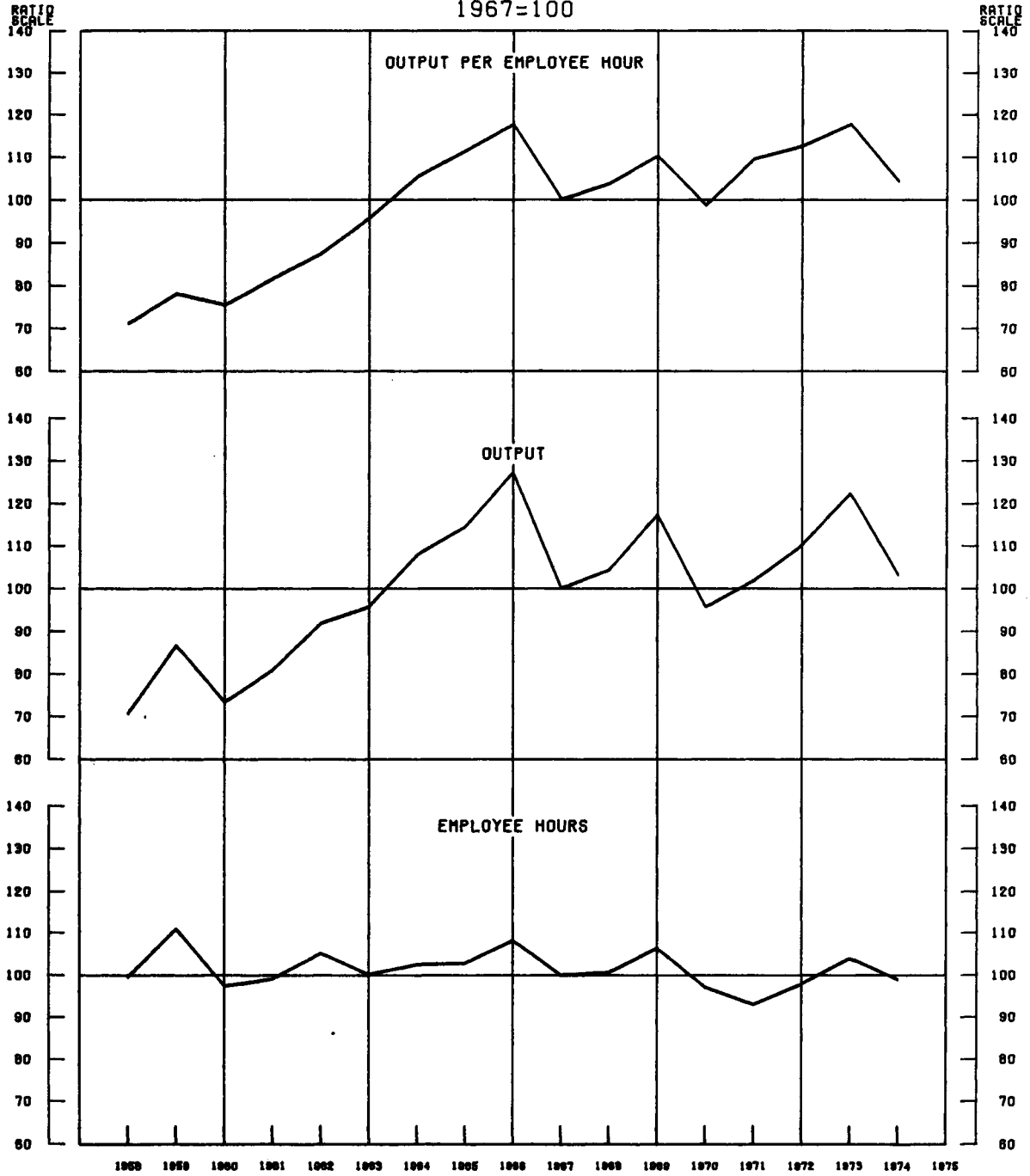
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 68
 PRIMARY ALUMINUM (SIC 3334), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



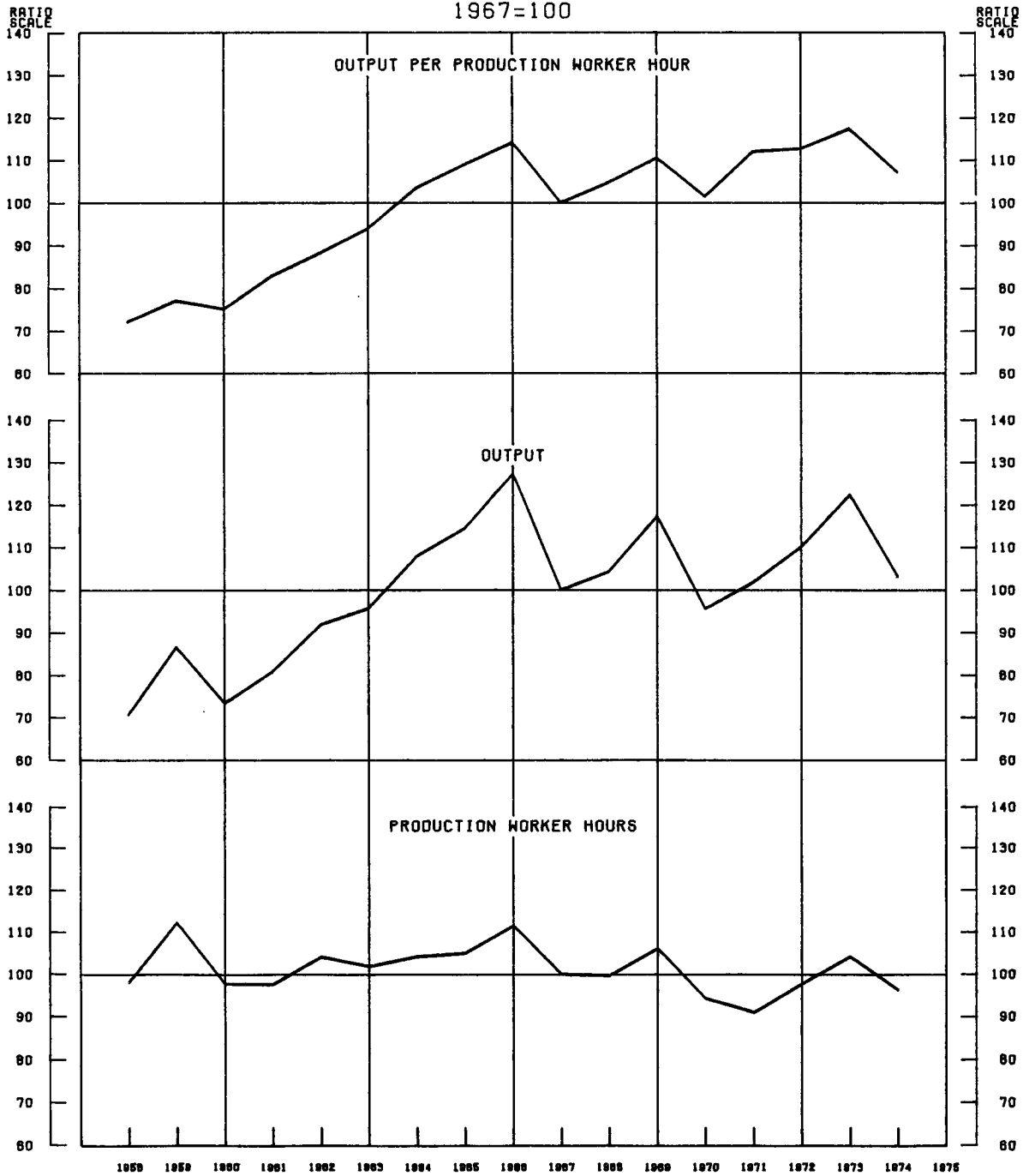
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 69
 COPPER ROLLING AND DRAWING (SIC 3351), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



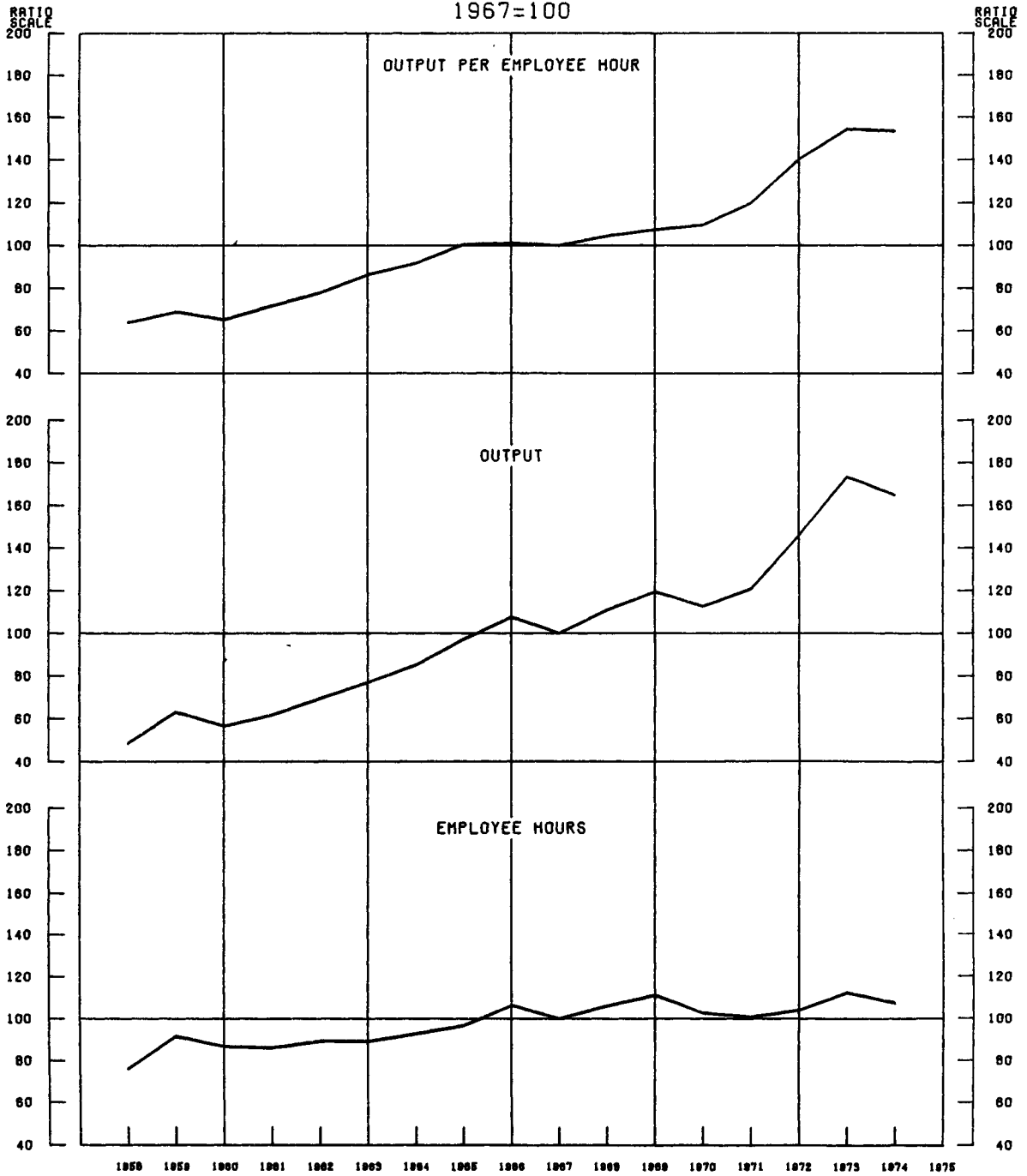
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 70
 COPPER ROLLING AND DRAWING (SIC 3351), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



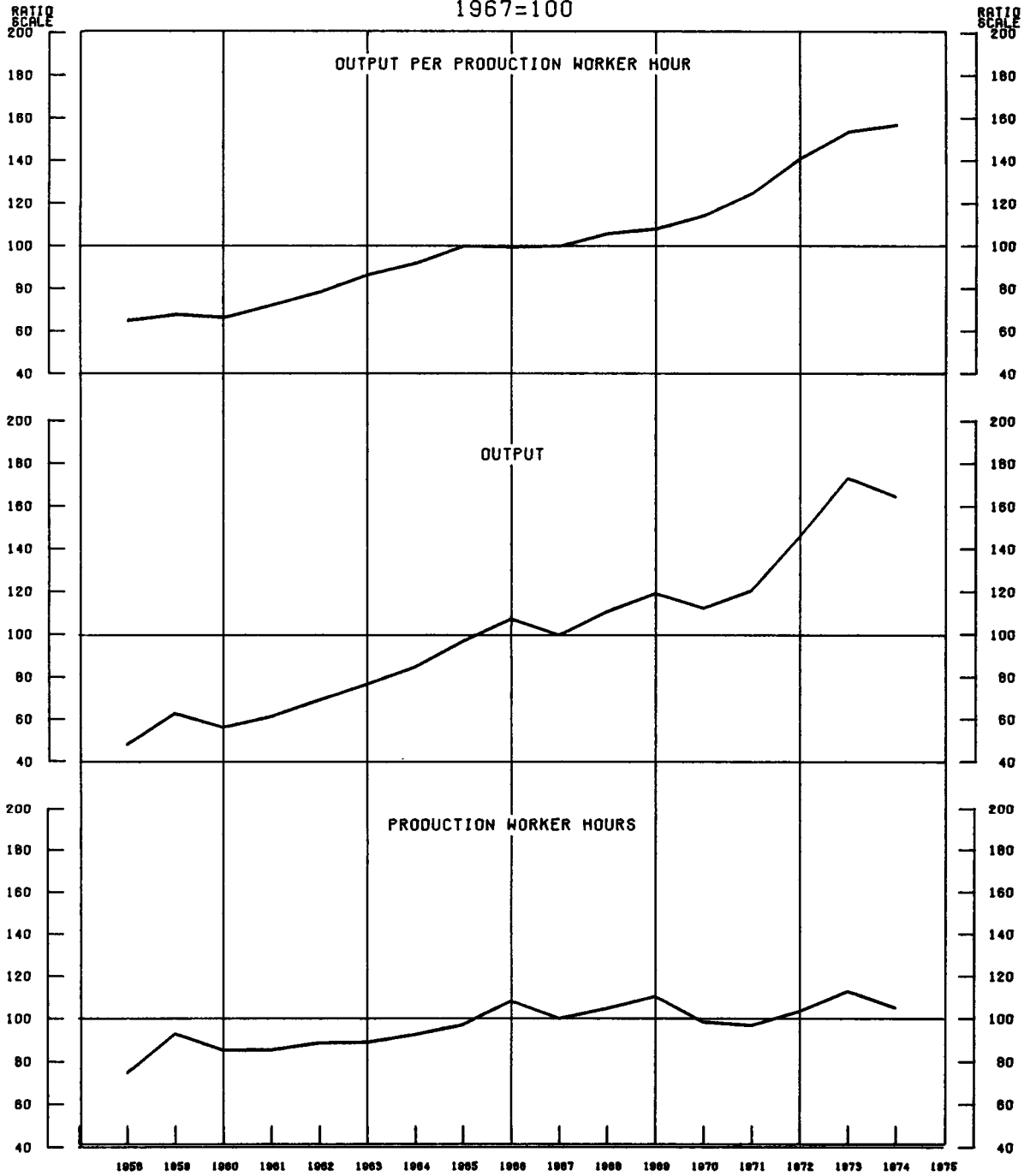
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 71
 ALUMINUM ROLLING AND DRAWING (SIC 3353, 3354, 3355), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



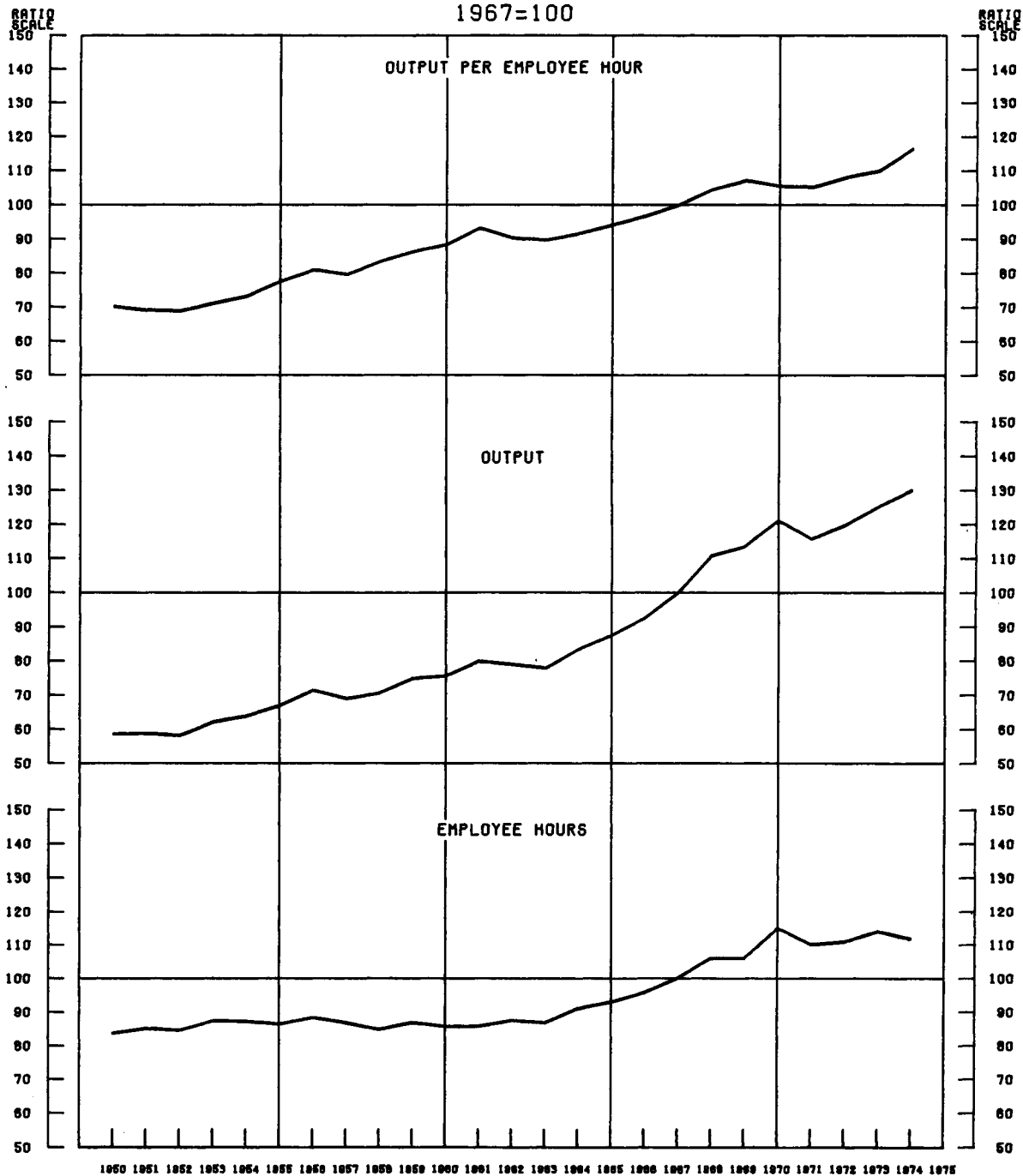
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 72
 ALUMINUM ROLLING AND DRAWING (SIC 3353, 3354, 3355), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



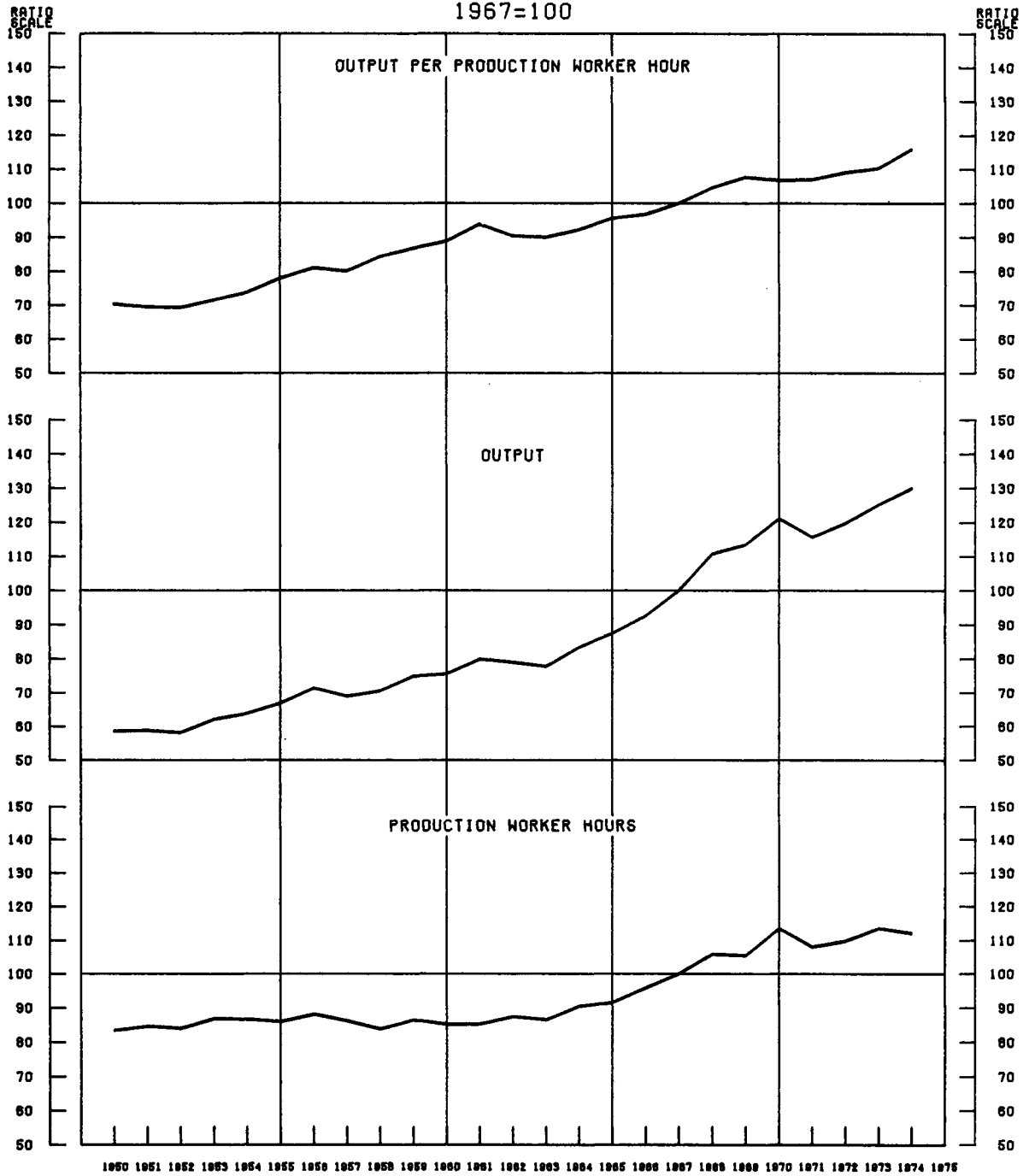
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 73
 METAL CANS (SIC 3410), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



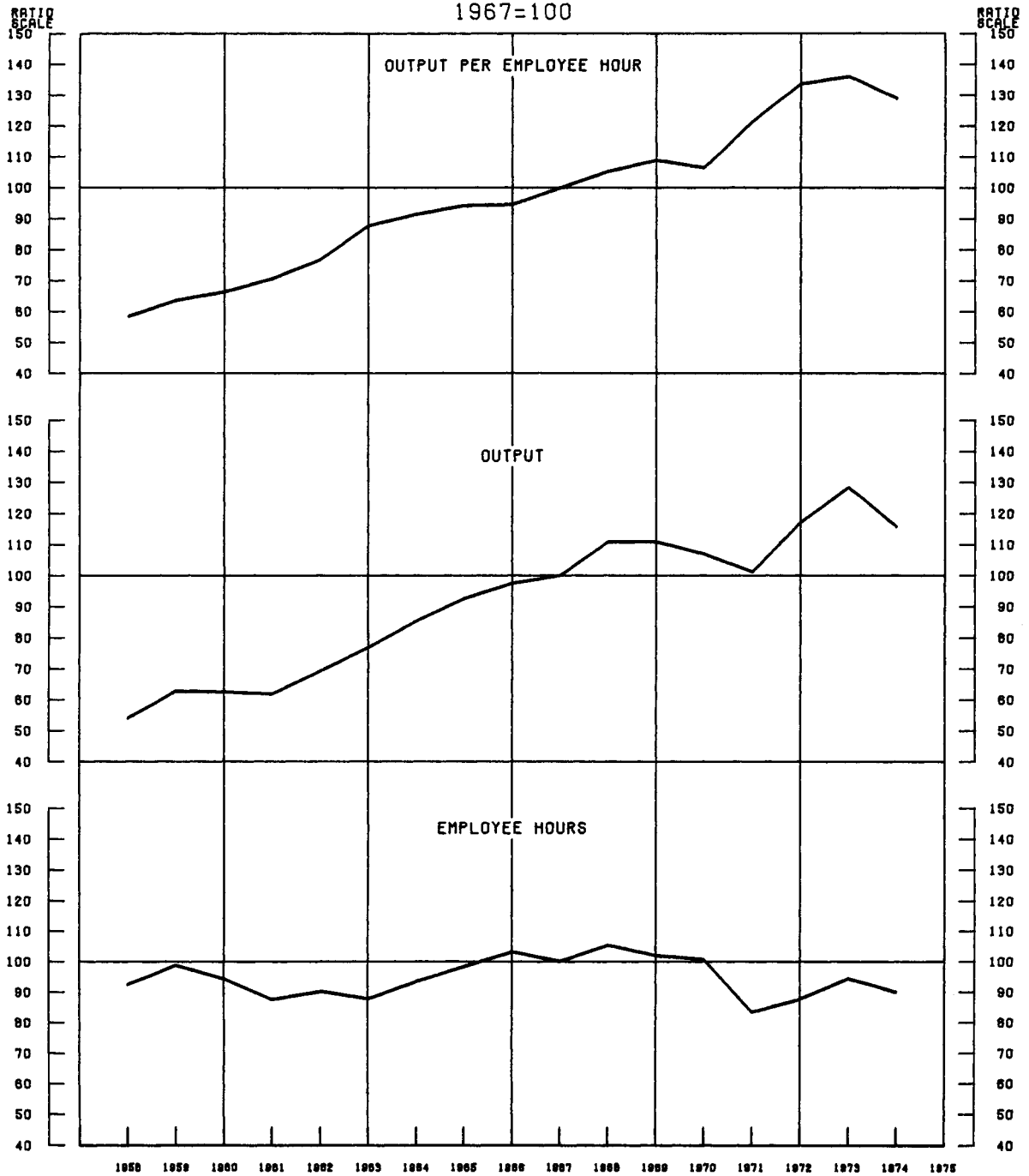
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 74
 METAL CANS (SIC 3411), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



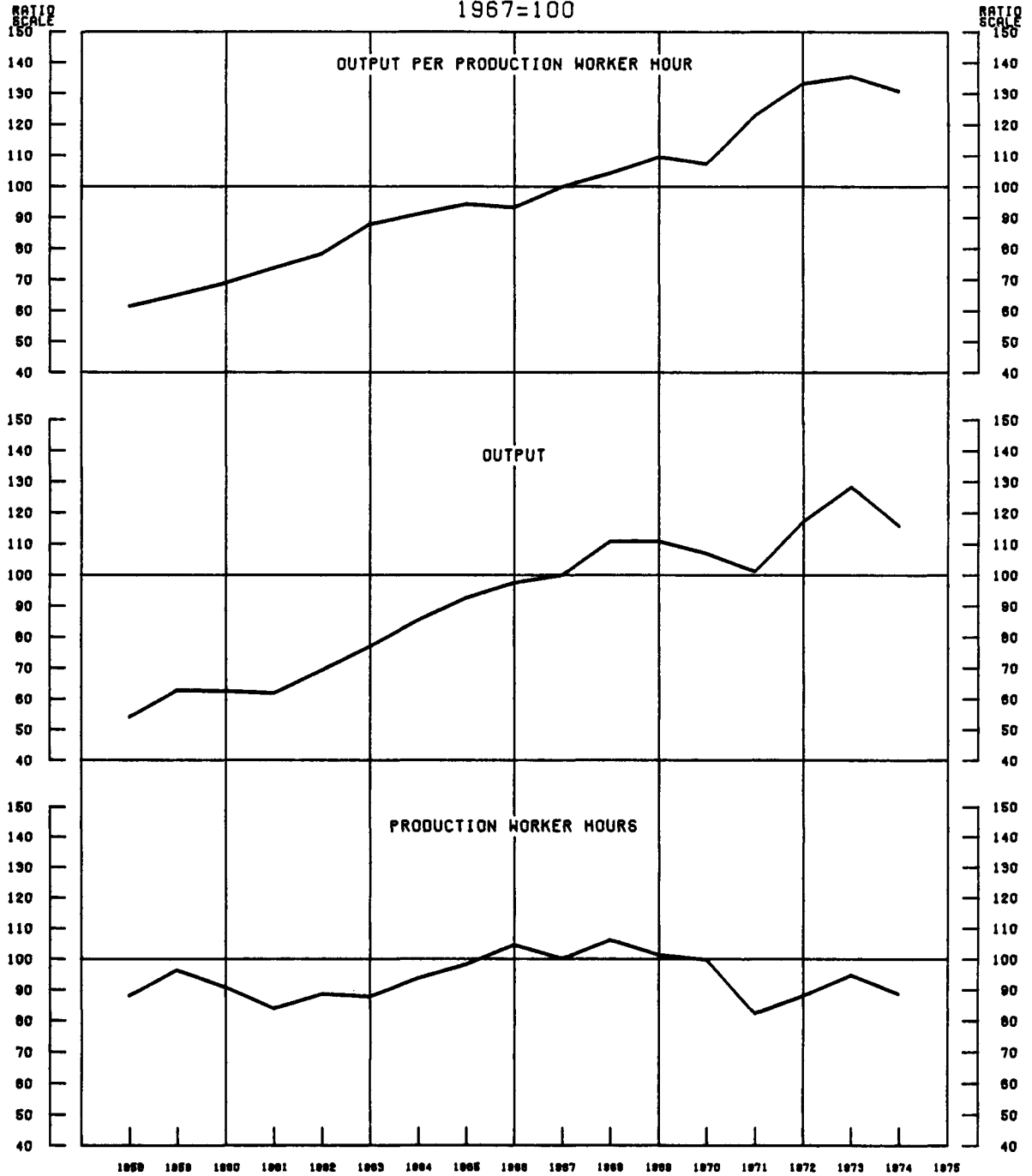
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 75
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



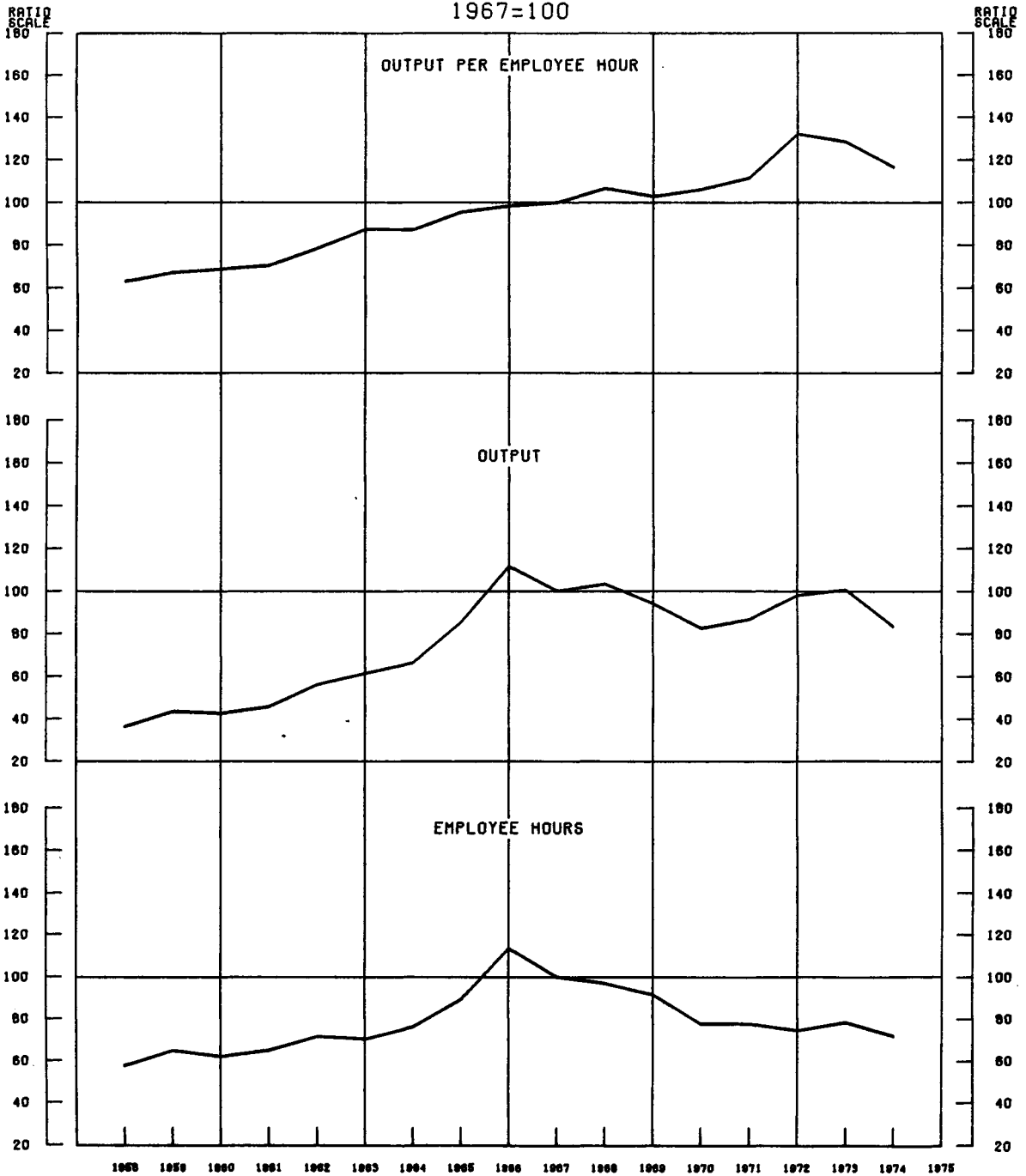
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 76
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



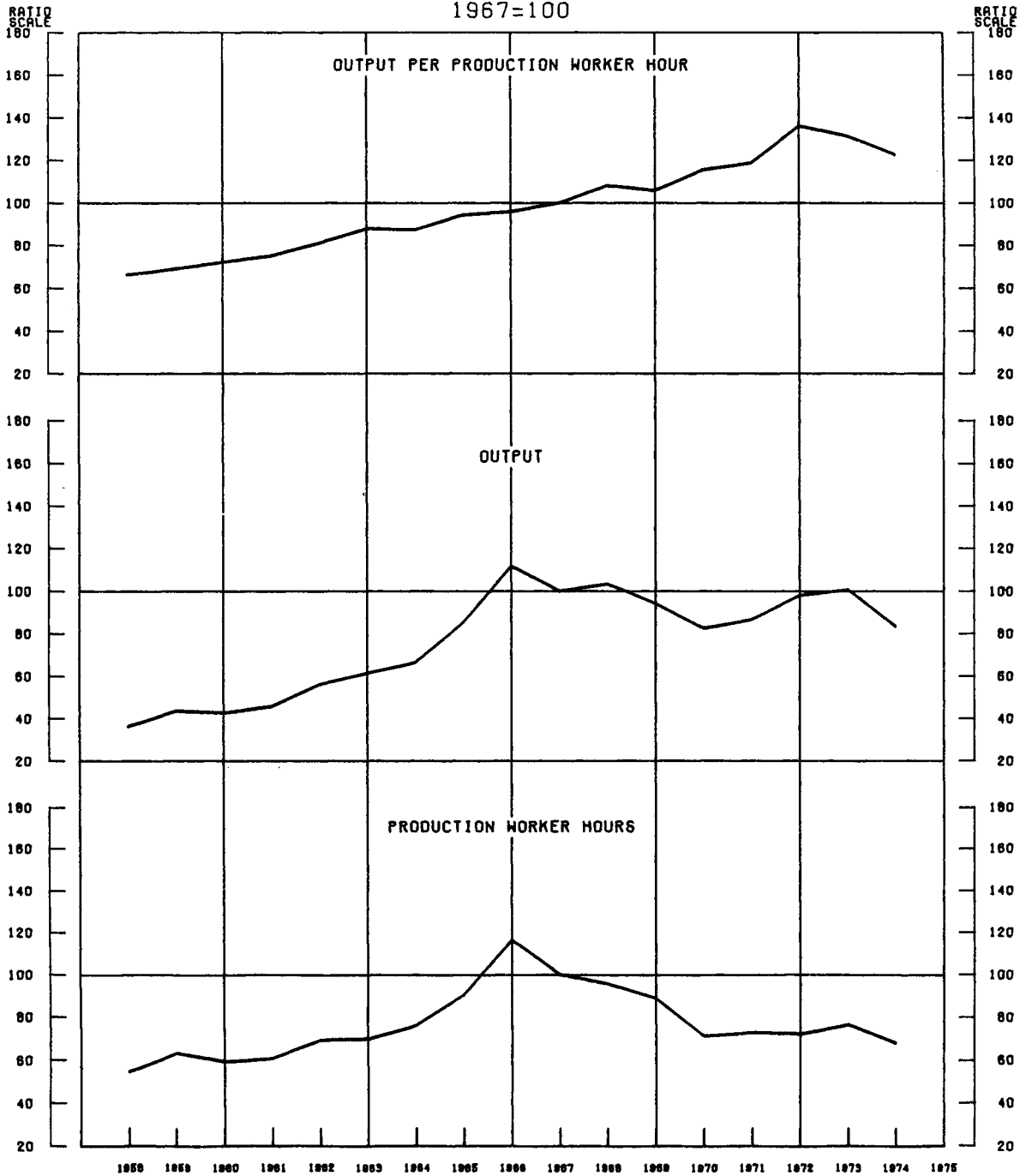
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 77
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



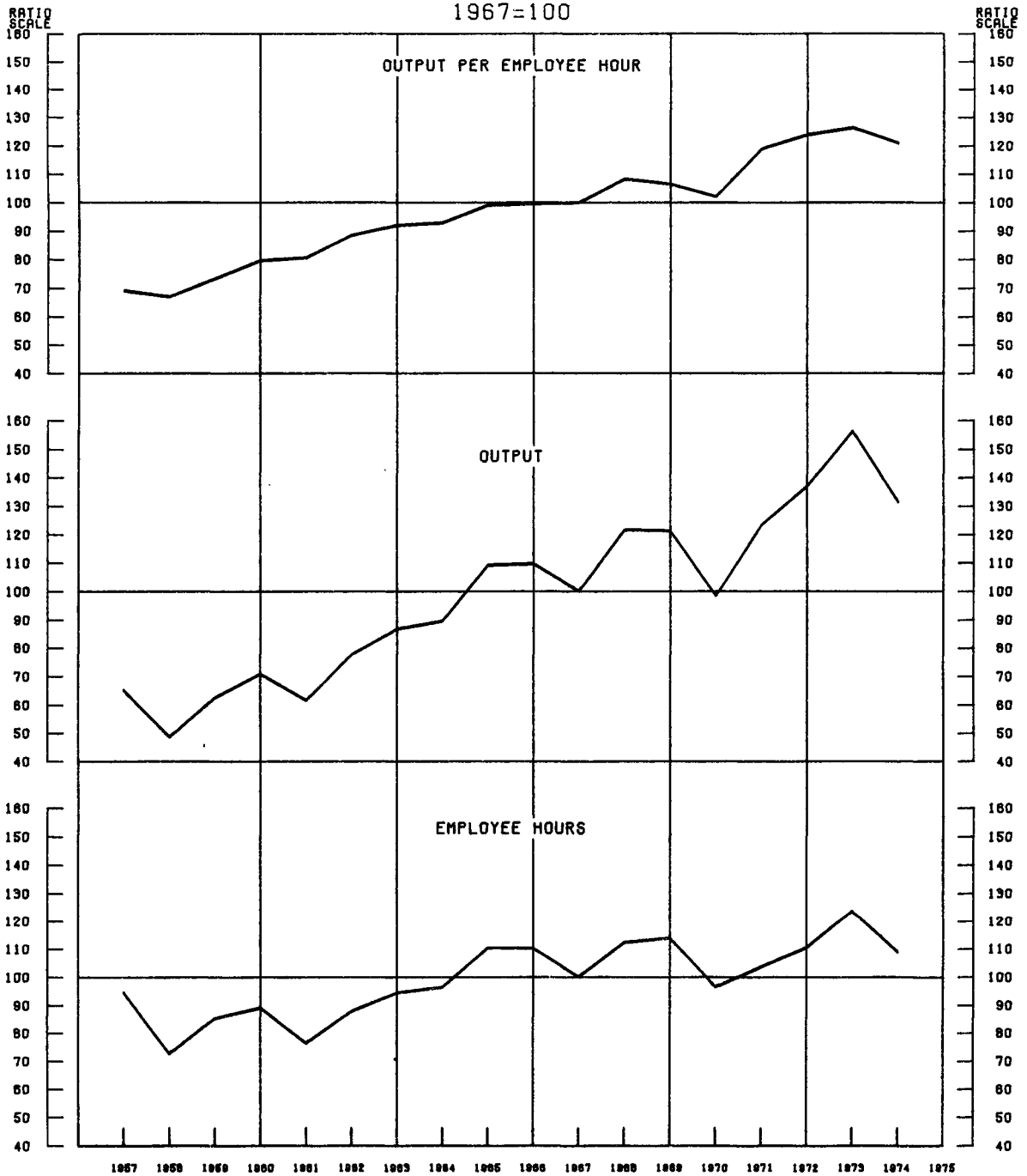
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 78
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



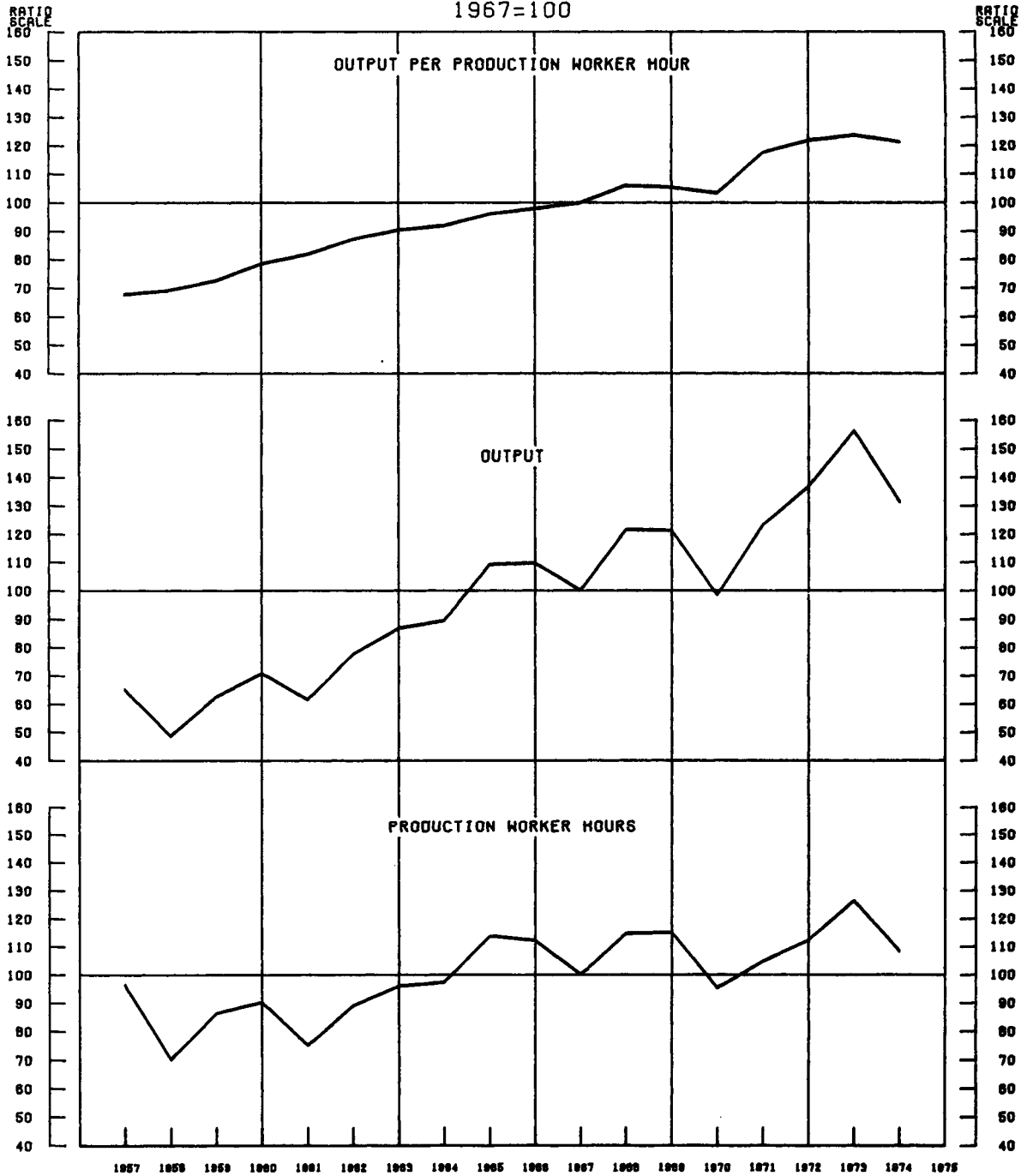
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 79
 MOTOR VEHICLES AND EQUIPMENT (SIC 371), 1957-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



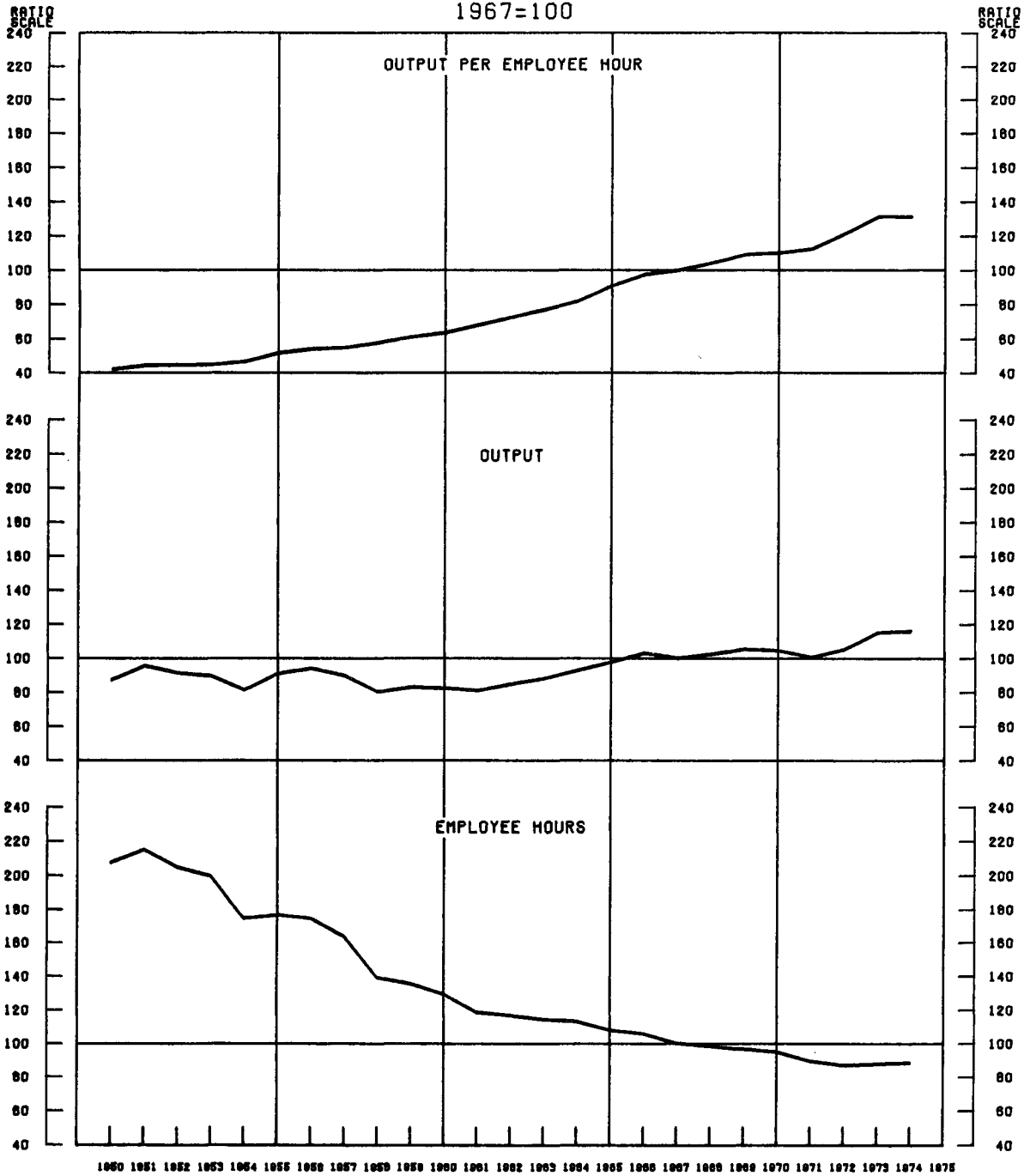
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 80
 MOTOR VEHICLES AND EQUIPMENT (SIC 371), 1957-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



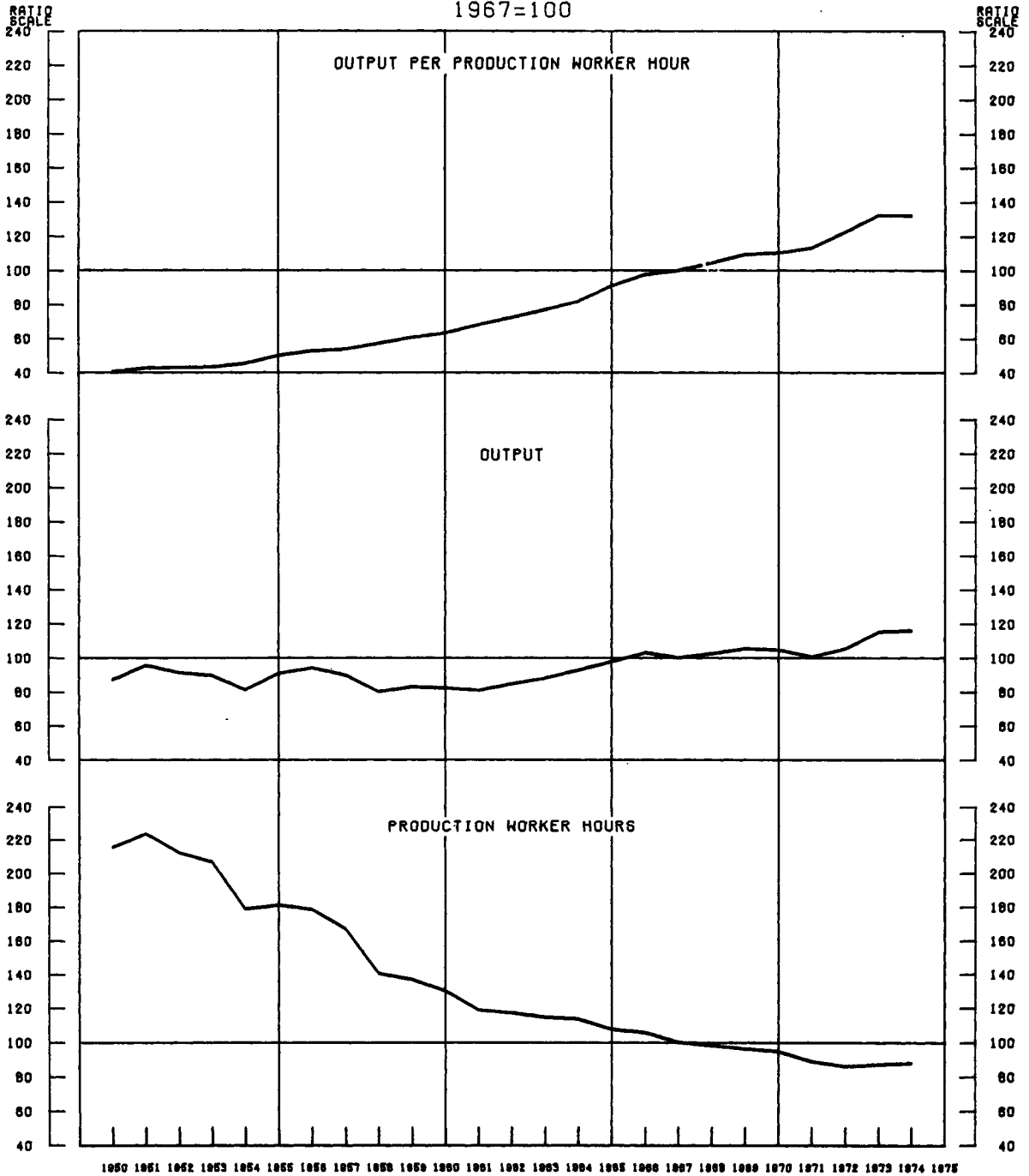
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 81
 RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



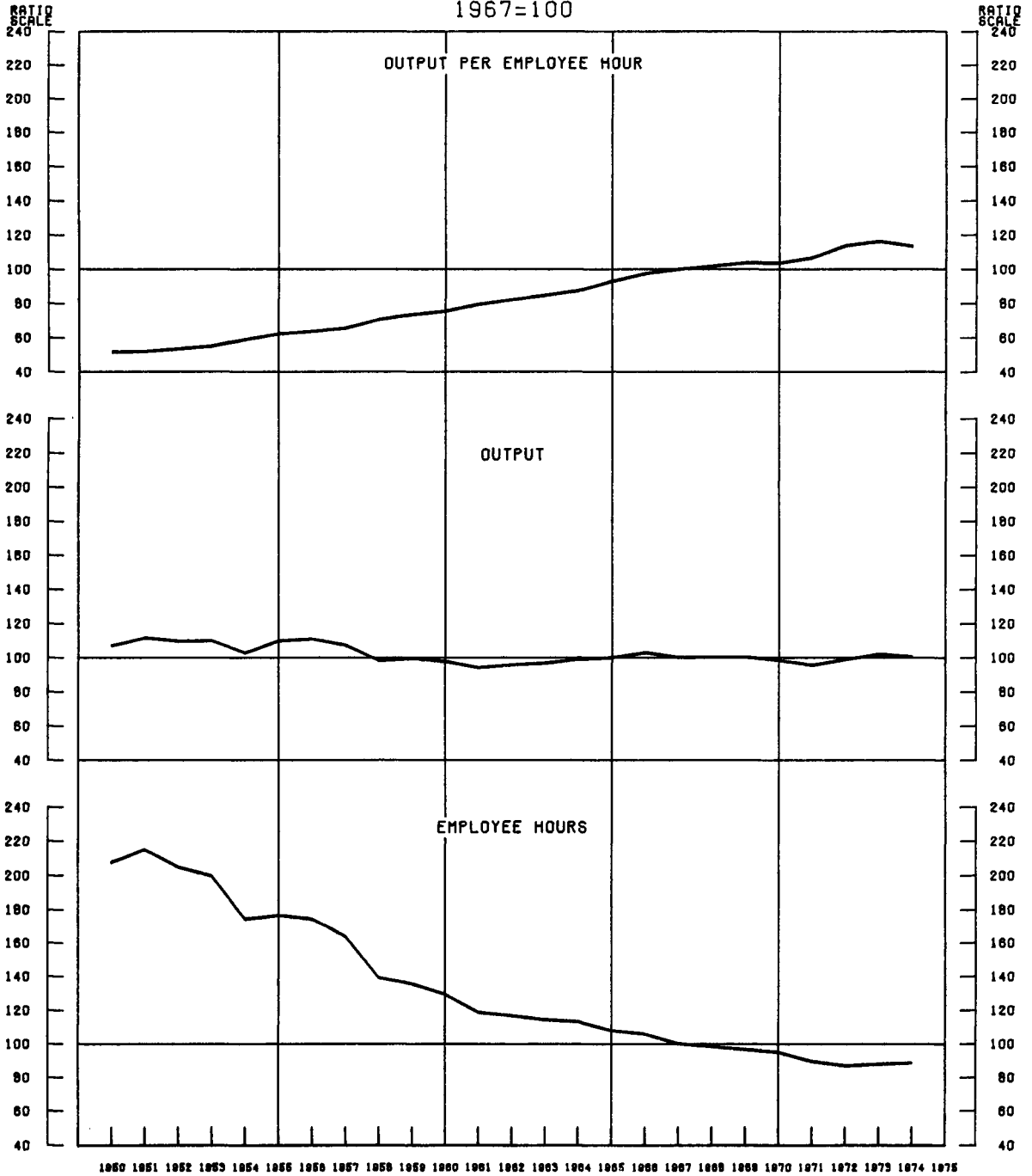
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS,

CHART 82
 RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



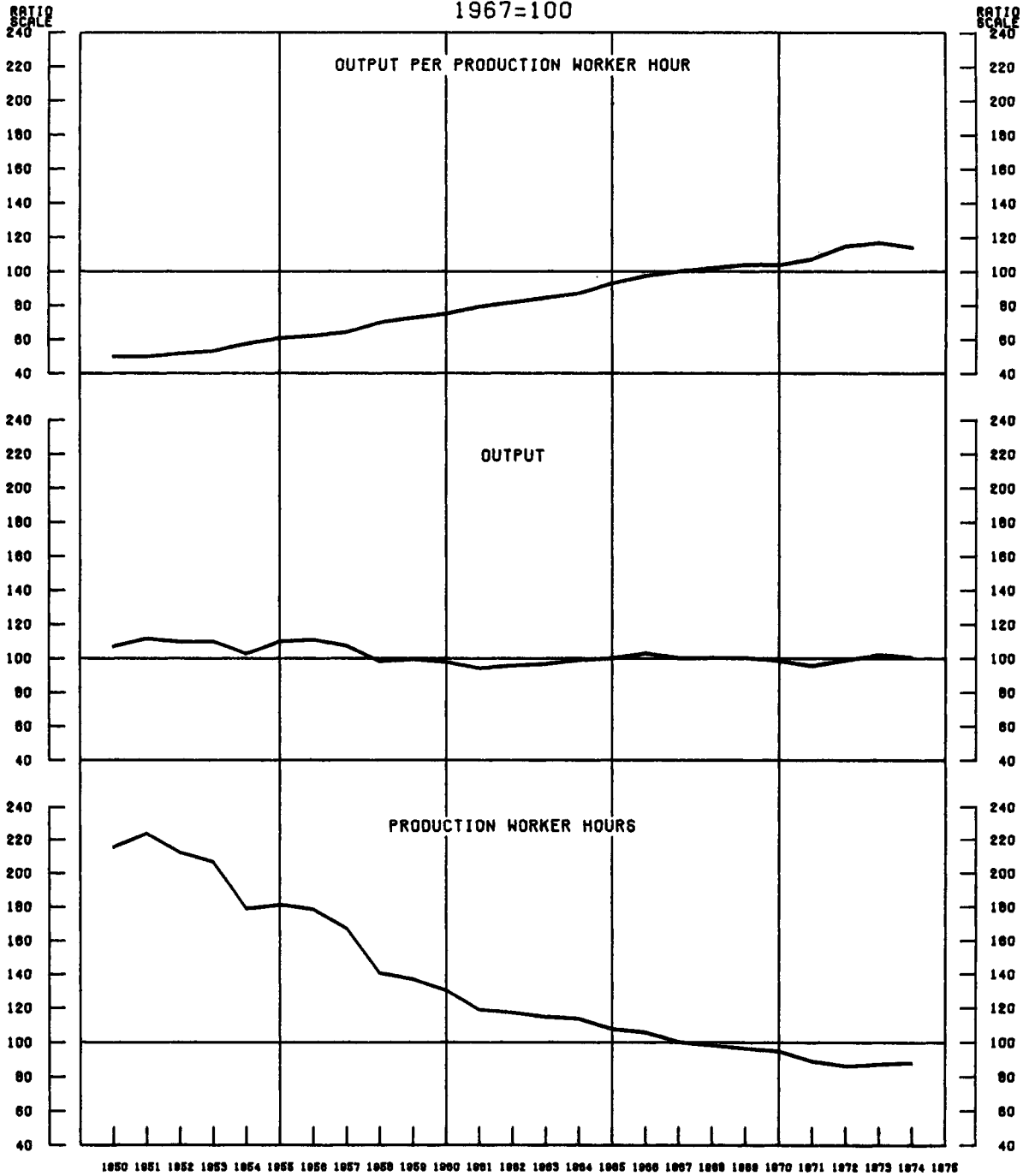
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 83
 RAILROADS, CAR MILES (SIC 401, CLASS I), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



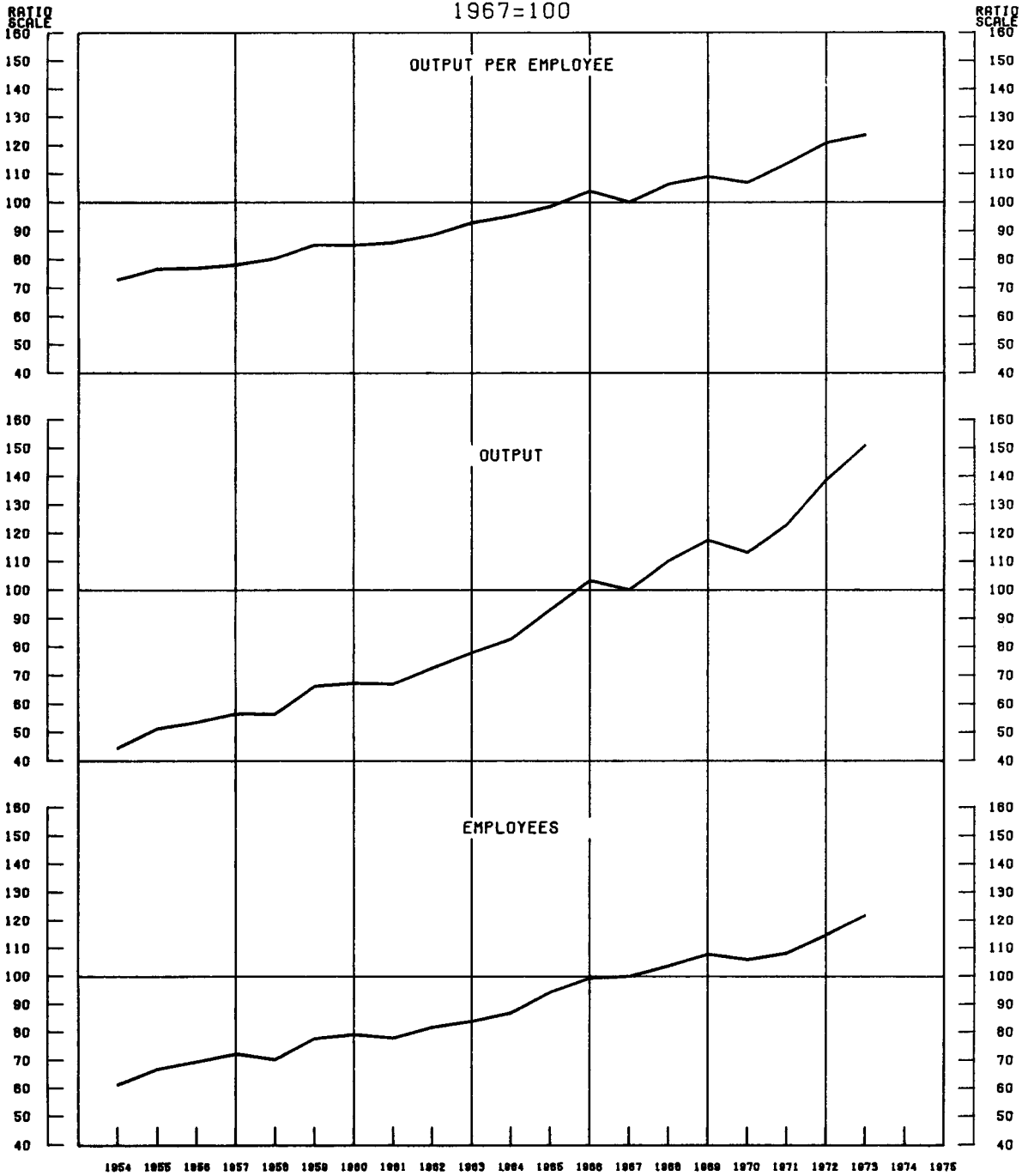
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 84
 RAILROADS, CAR MILES (SIC 401, CLASS I), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



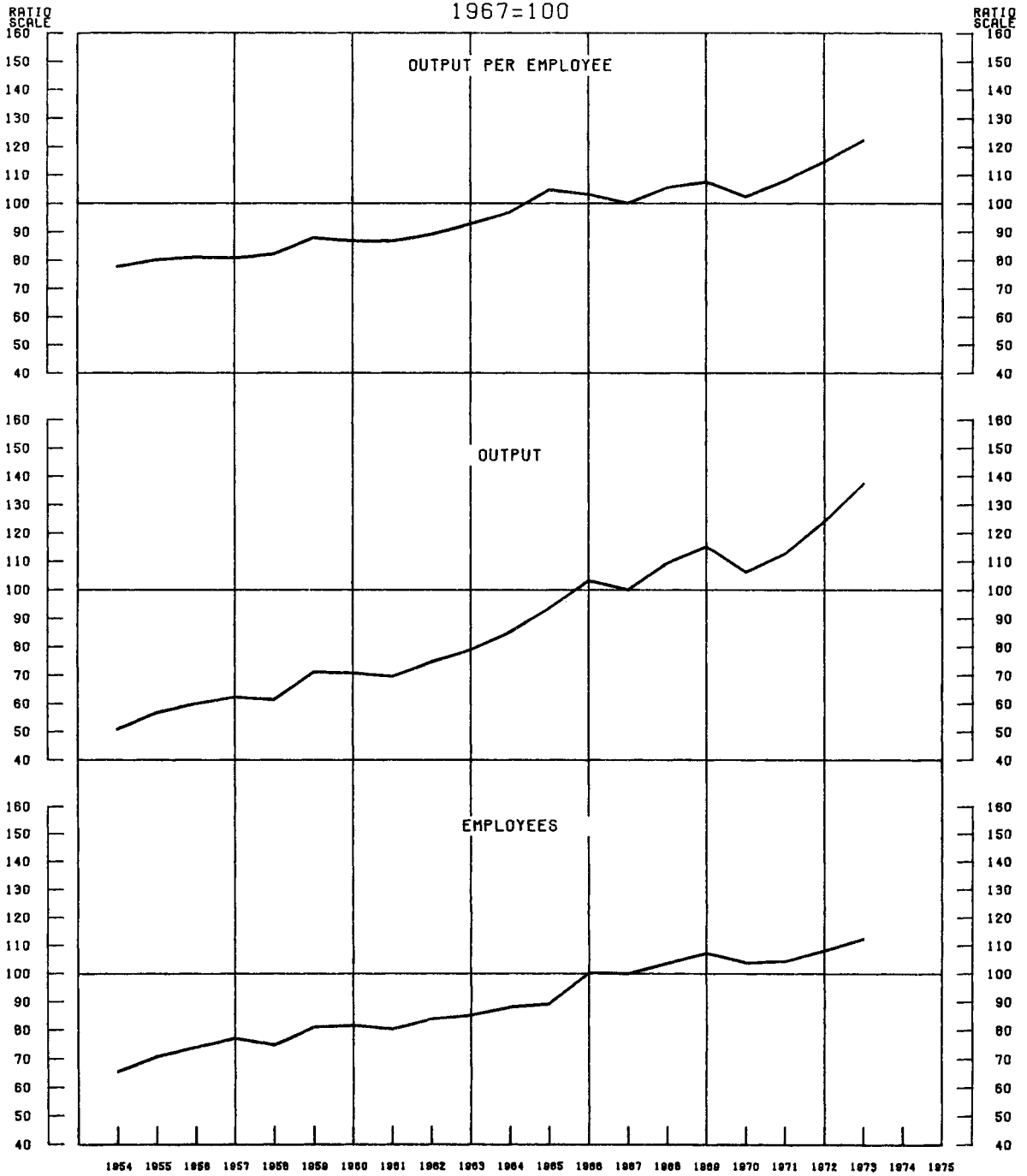
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 85
 INTERCITY TRUCKING (SIC 4213 PT), 1954-73
 OUTPUT PER EMPLOYEE AND RELATED DATA
 1967=100



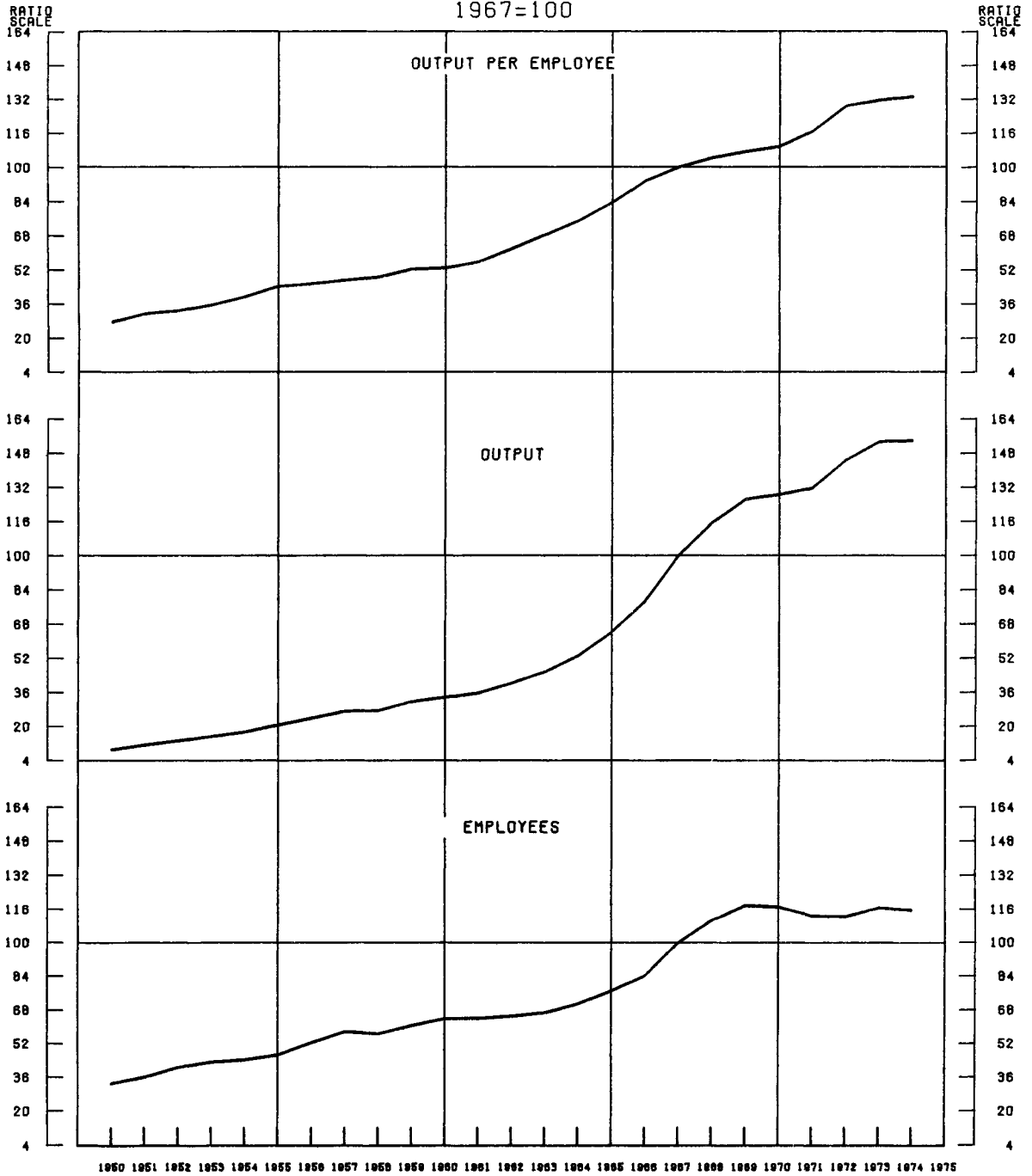
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 86
 INTERCITY TRUCKING - GENERAL FREIGHT (SIC 4213 PT), 1954-73
 OUTPUT PER EMPLOYEE AND RELATED DATA
 1967=100



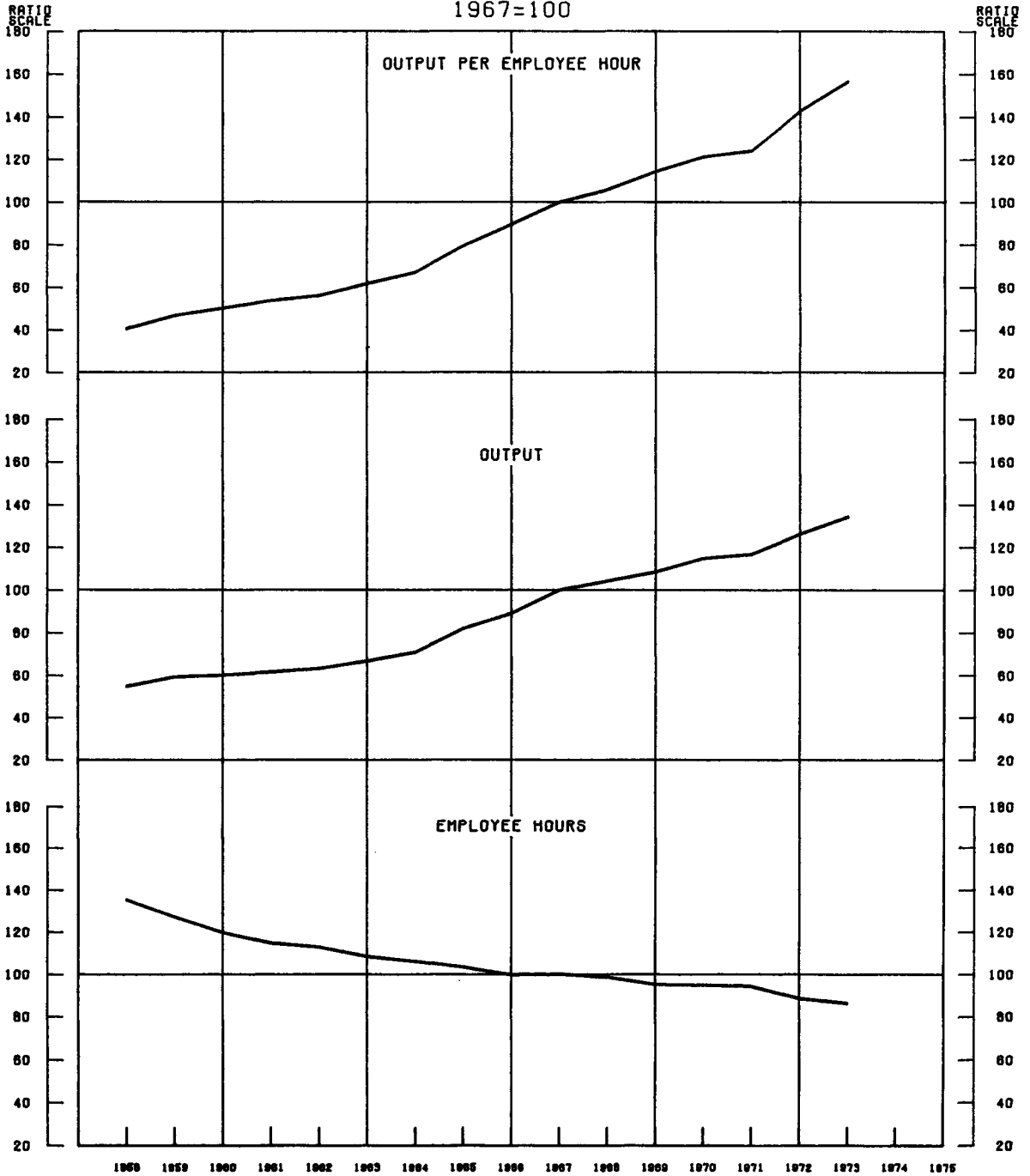
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 87
 AIR TRANSPORTATION (SIC 4511), 1950-74
 OUTPUT PER EMPLOYEE AND RELATED DATA
 1967=100



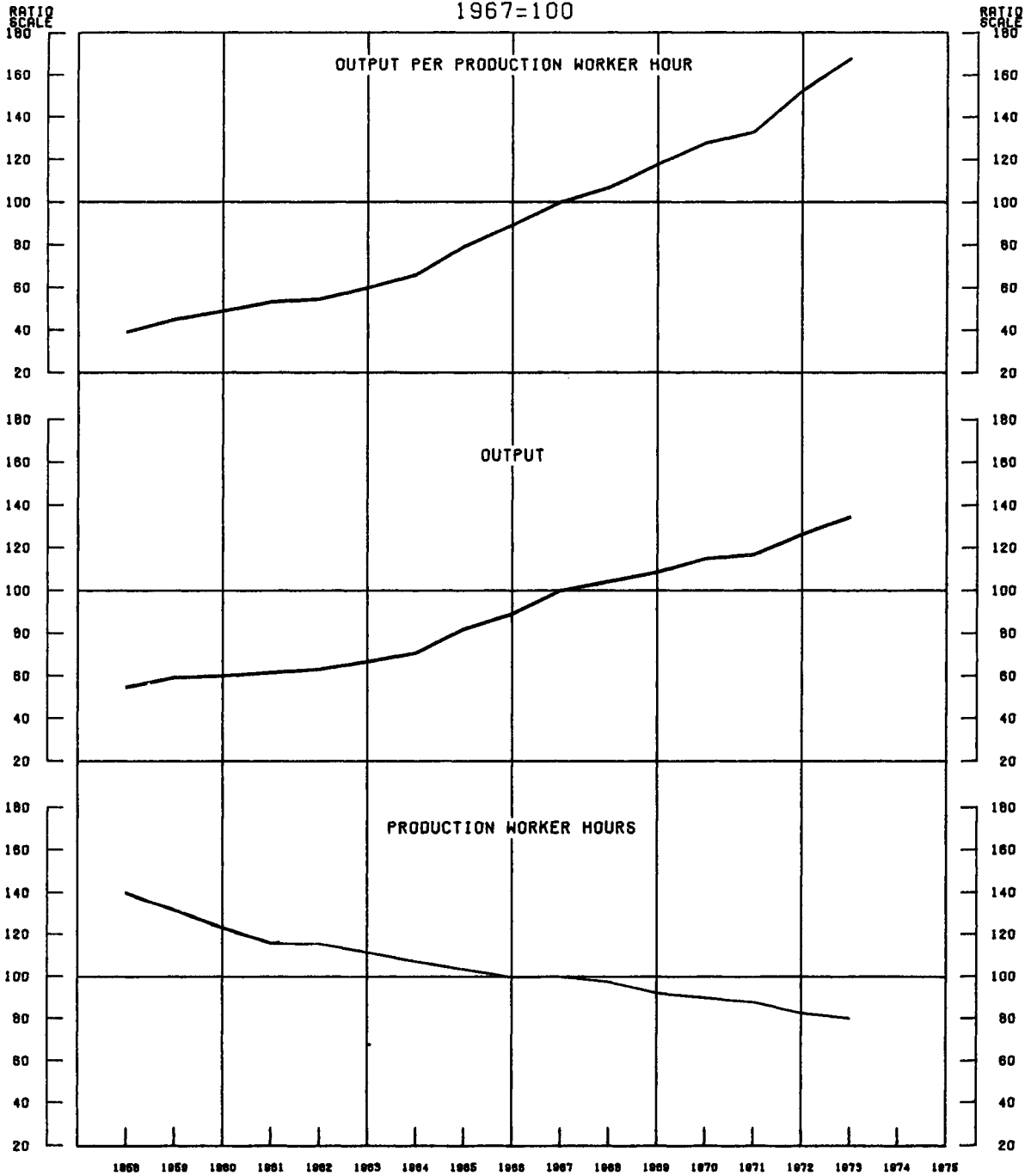
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 88
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-73
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



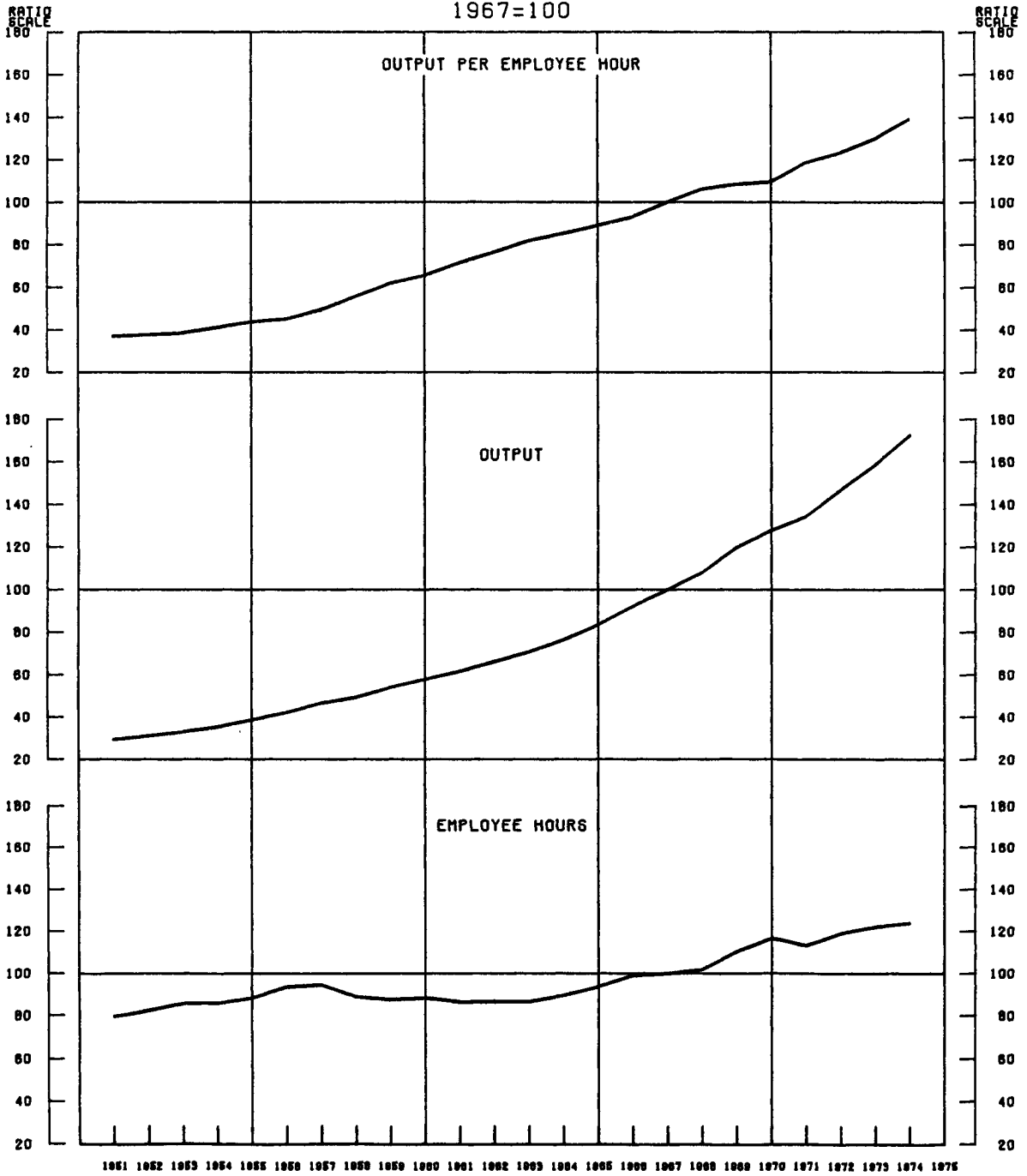
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 89
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-73
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



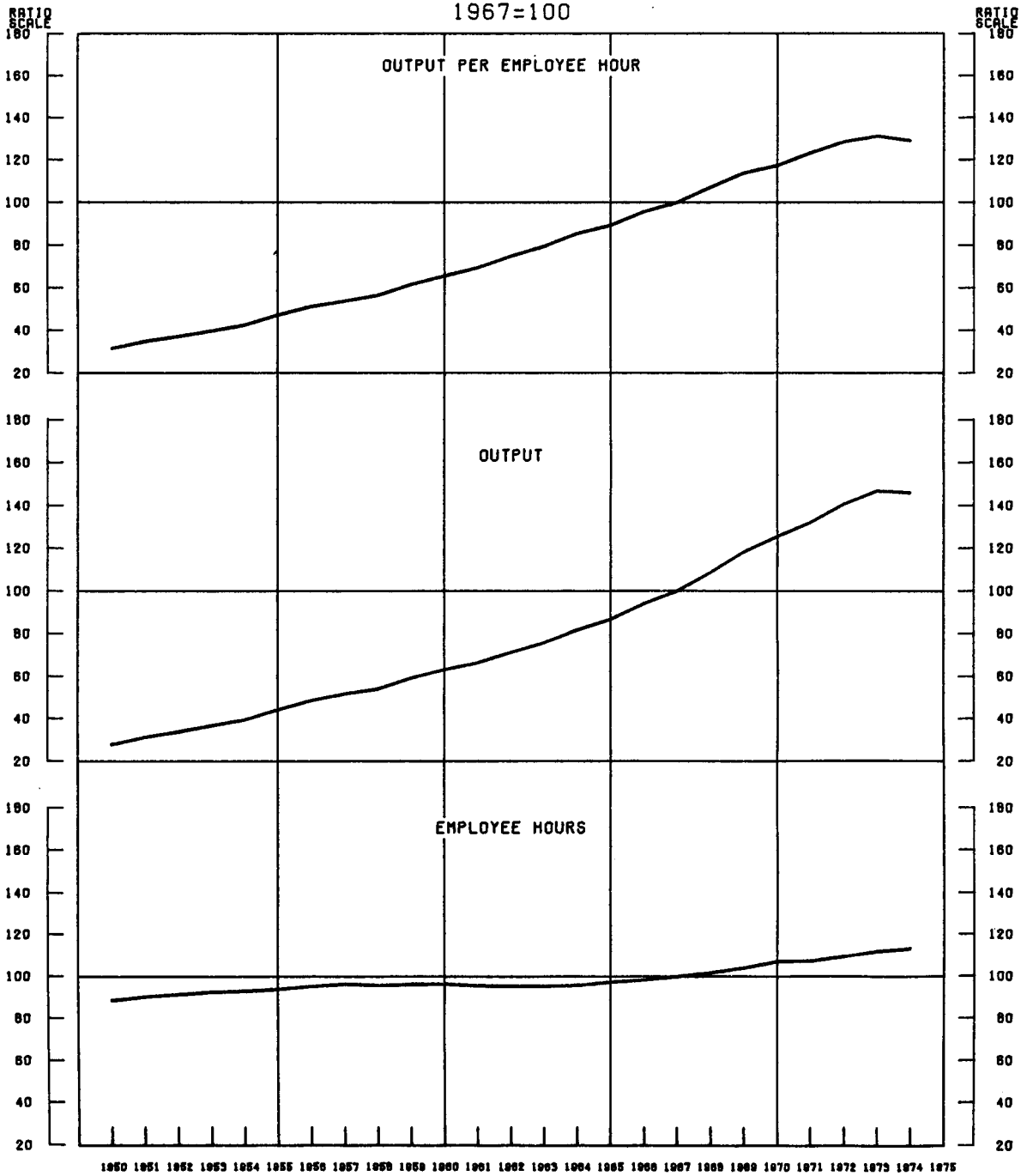
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 90
 TELEPHONE COMMUNICATIONS (SIC 4811), 1951-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



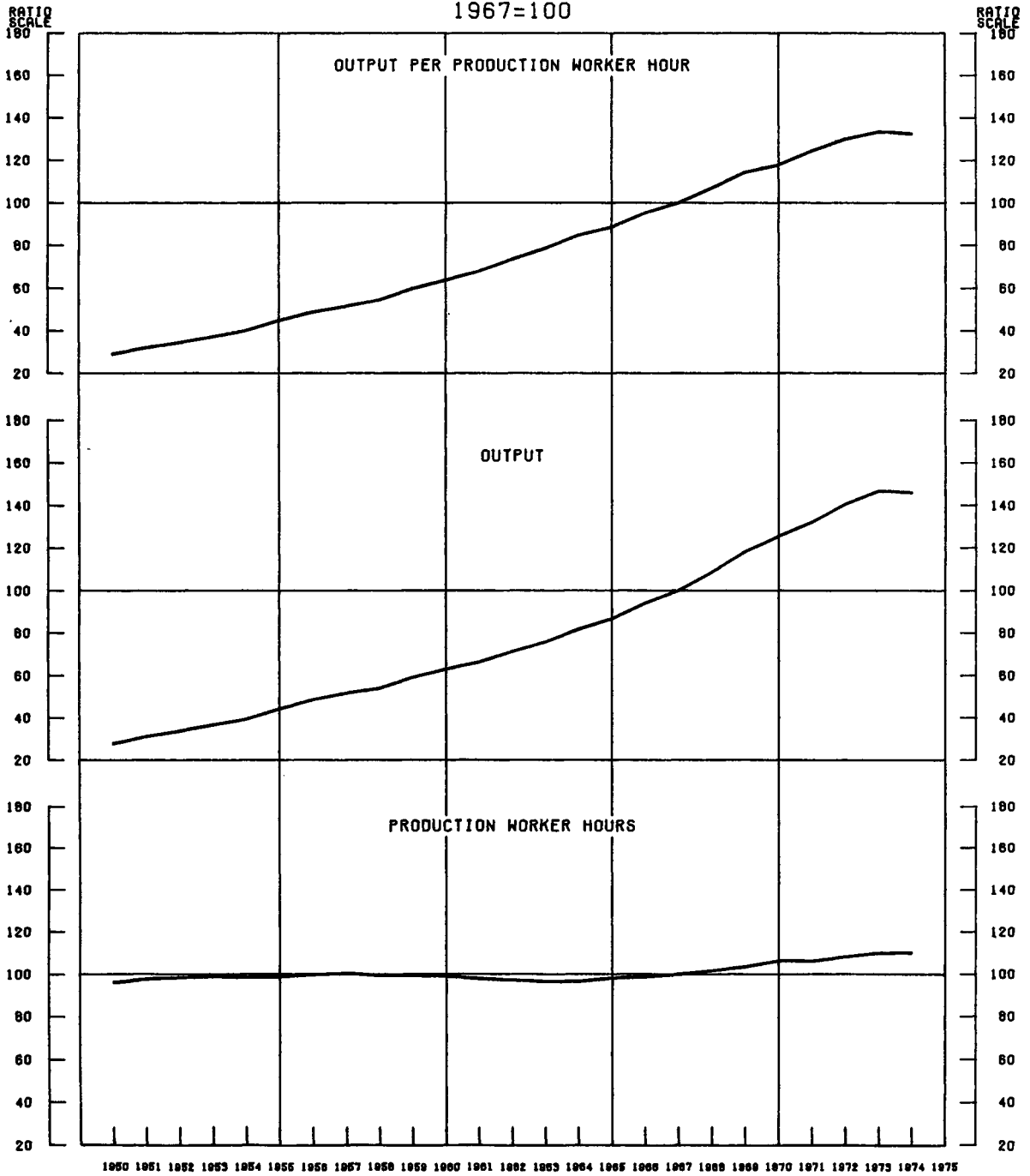
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 91
 GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1950-74
 OUTPUT PER EMPLOYEE HOUR AND RELATED DATA
 1967=100



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

CHART 92
 GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1950-74
 OUTPUT PER PRODUCTION WORKER HOUR AND RELATED DATA
 1967=100



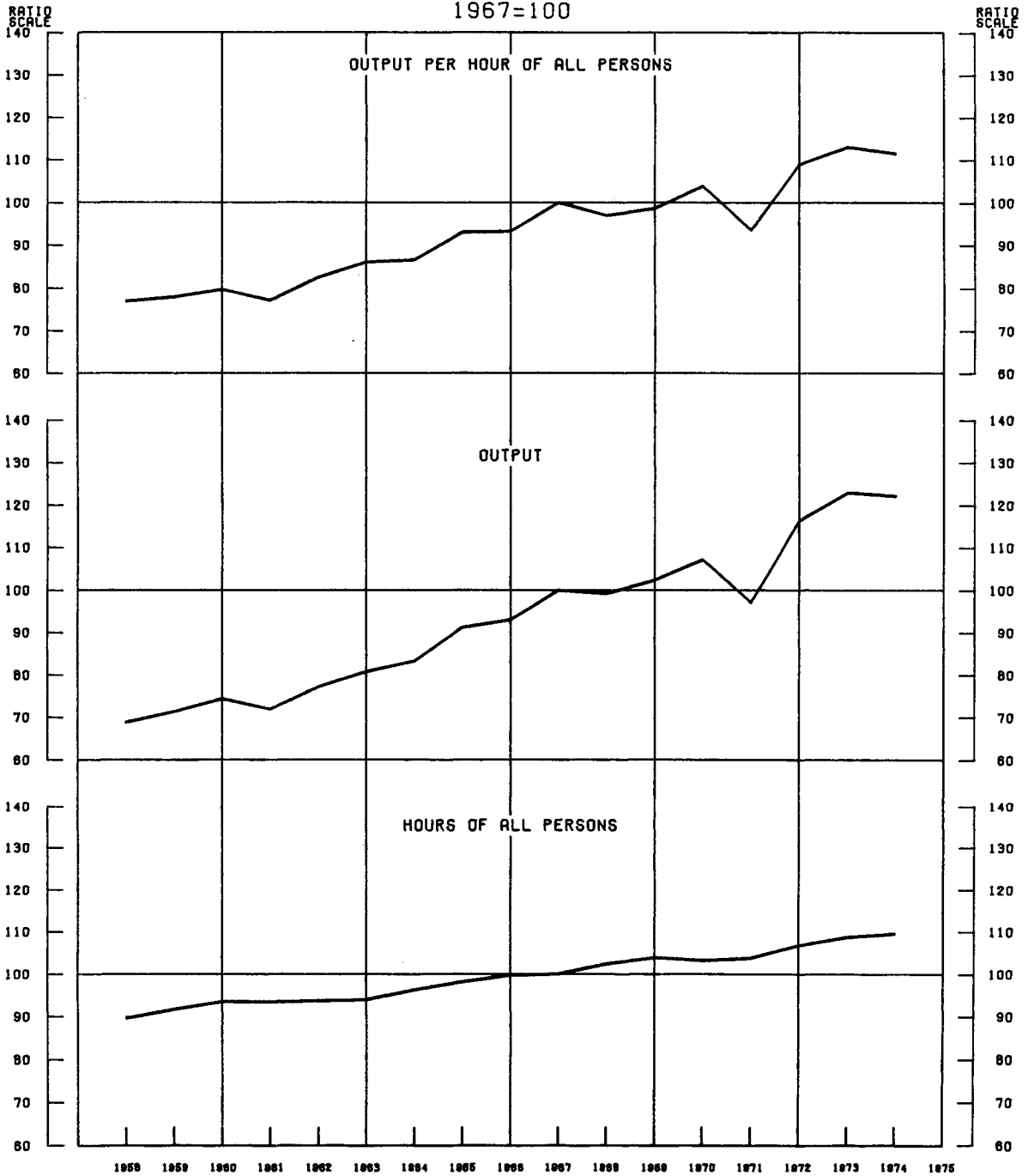
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 93
 GASOLINE SERVICE STATIONS (SIC 5541), 1958-74
 OUTPUT PER HOUR OF ALL PERSONS AND RELATED DATA
 1967=100



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

CHART 94
HOTELS, MOTELS, AND TOURIST COURTS (SIC 7011), 1958-74
OUTPUT PER HOUR OF ALL PERSONS AND RELATED DATA
1967=100



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

Recent BLS Publications on Productivity and Technology

Productivity trends in individual industries

- "Productivity in the Copper Rolling and Drawing Industry," by Phyllis Flohr Otto, Monthly Labor Review, December 1975.
- "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.
- "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.
- "Output Per Man-Hour Measures: Industries," reprint of Chapter 26 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1711, 1971, pp. 219-225.
- "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 trends in the Federal sector

"Measuring Productivity in the Federal Government," by Charles Ardolini and Jeffrey Hohenstein, Monthly Labor Review, November 1974, pp. 13-20. Reprint 3009.

Productivity and other economic trends

Productivity and Costs in the Private Economy (quarterly press release).

Productivity and Costs in Nonfinancial Corporations (quarterly press release).

"Productivity and Costs in the Private Economy, 1974," by Jerome A. Mark, Monthly Labor Review, June 1975, pp. 3-8.

Current Developments in Productivity, 1973-74 (Statement delivered by Assistant Commissioner Mark before the Senate Government Operations Committee on December 17, 1974) BLS Report 436, 1975.

"Productivity and Costs in the Private Economy, 1973," by J.R. Norsworthy and L.J. Fulco, Monthly Labor Review, June 1974, pp. 3-9. Reprint 2973.

Productivity and the Economy, BLS Bulletin 1779, 1973.*

Productivity: A Selected, Annotated Bibliography, BLS Bulletin 1776, 1973.*

The Meaning and Measurement of Productivity, BLS Bulletin 1714, 1971.*

"Output Per Man-Hour: Private Sector," reprint of Chapter 25 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1711, 1971, pp. 213-217.

Productivity in the Railroad Industry, BLS Report 377, 1970.*

Productivity Analysis in Manufacturing Plants, BLS Staff Paper 3, 1970.*

Technology studies

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.

Technology studies -- continued

- Improving Productivity: Labor and Management Approaches,
BLS Bulletin 1715, 1971.*
- "Technological Change," reprint of Chapter 27 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1711, 1971,
pp. 227-233.
- "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.

International comparisons

- "Productivity and Unit Labor Costs in the United States and Abroad,"
by Patricia Capdevielle and Arthur Neef, Monthly Labor Review,
July 1975, pp. 28-32.
- "Unemployment in Nine Industrial Nations, 1973-75," by Joyanna Moy
and Constance Sorrentino, Monthly Labor Review, June 1975.
pp. 9-18.
- Productivity: An International Perspective, BLS Bulletin 1811, 1974.*
- "Comparing Employment Shifts in 10 Industrialized Countries," by
Constance Sorrentino, Monthly Labor Review, October 1971, pp. 3-9.
- "Foreign Labor Conditions, International Comparisons, and Trade
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Construction labor requirements

- "Labor and Materials Required for Highway Construction," by
Diane S. Finger, Monthly Labor Review, December 1975.
- "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.

Construction labor requirements -- continued

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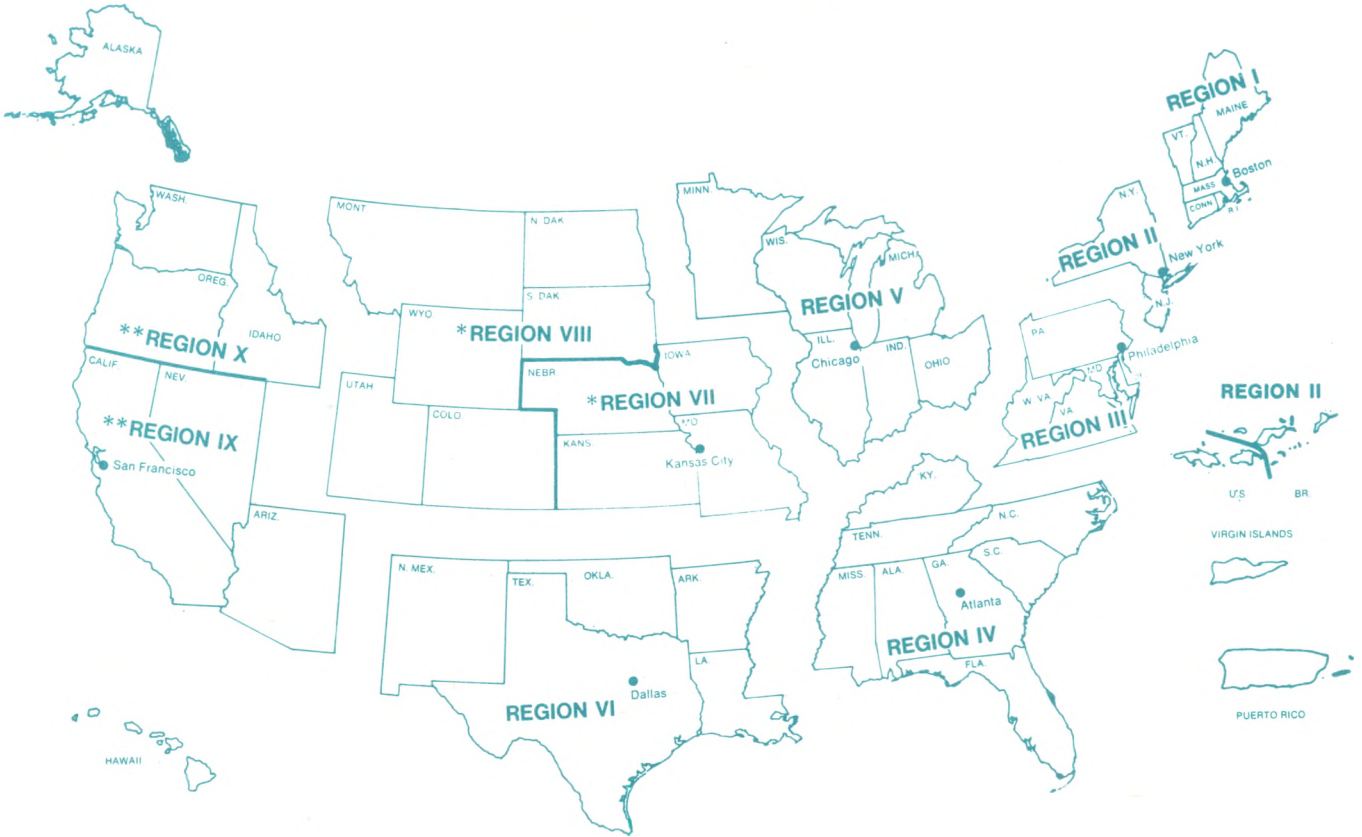
Labor and Material Requirements for Hospital and Nursing Home Construction, BLS Bulletin 1691, 1971.*

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