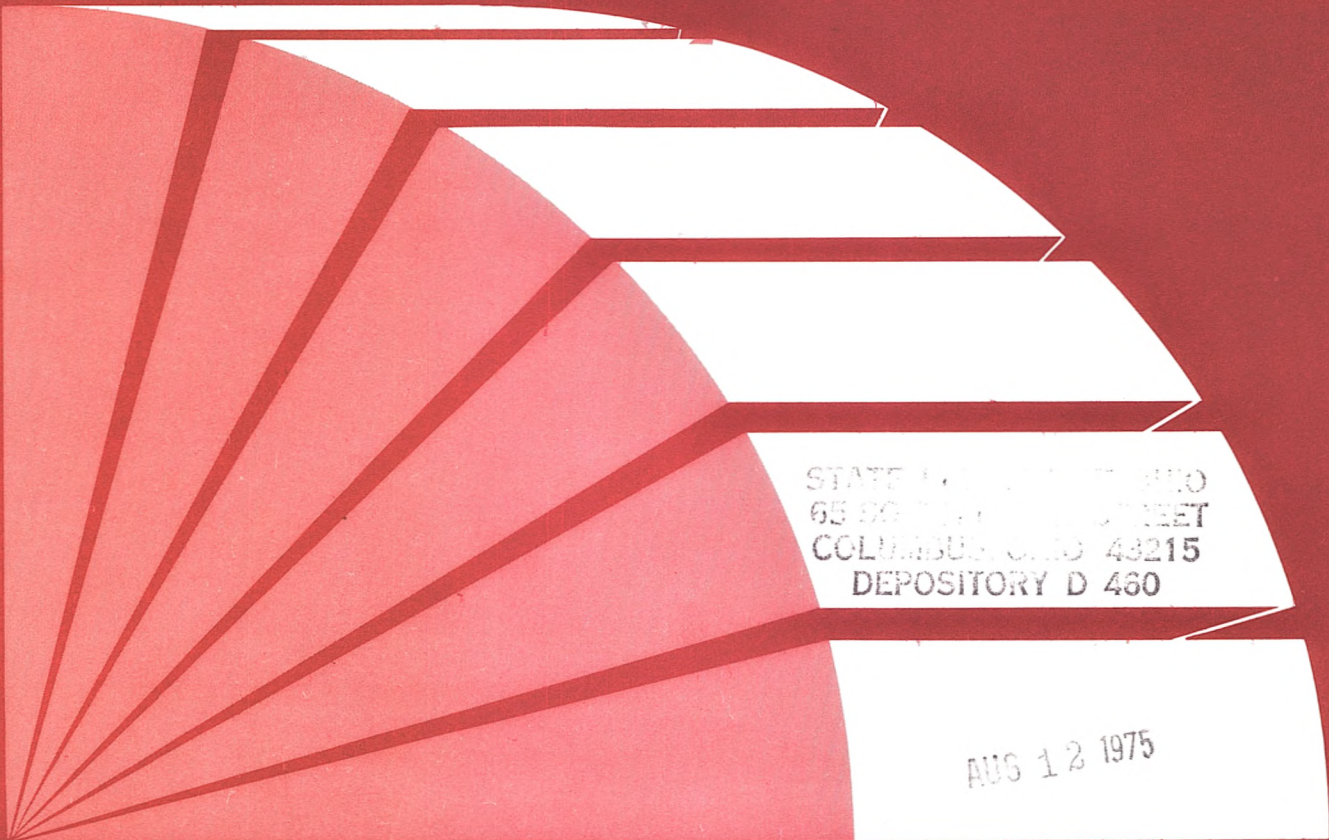


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**Indexes of Output
Per Man-Hour
Selected Industries
1974 Edition**

Bulletin 1827

**U. S. DEPARTMENT OF LABOR
Bureau of Labor Statistics
1974**



STATE OF OHIO
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Indexes of Output Per Man-Hour Selected Industries 1974 Edition

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**U.S. DEPARTMENT OF LABOR
Peter J. Brennan, Secretary
BUREAU OF LABOR STATISTICS
Julius Shiskin, Commissioner**

1974



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Preface

This bulletin updates industry indexes of output per man-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 1973. Indexes for the intercity trucking, telephone, paint, and pharmaceutical industries are added for the first time.

The selected industries for which output per man-hour indexes are shown are not necessarily a representative cross section of American industry. They should not be combined, therefore, to obtain an overall measure for the entire economy or for any sector. Each index is intended to represent only the change in output per man-hour for the designated industry or combination of industries. However, the Bureau of Labor Statistics does publish indexes of output per man-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 man-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.)

Productivity measures in this study describe the relationship between output in real terms and 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 the measures relate output to employment and man-hours, they do not measure the specific contributions of labor, capital, or any other factor of production. Rather, they reflect the joint effect of a number of interrelated influences, such as changes in technology, capital investment per worker, changes in the level of output, utilization of capacity, layout and flow of material, managerial skill, and skills and effort of the work force.

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

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Highlights of Trends in Output Per Man-Hour

Current developments

Productivity increased between 1972 and 1973 in almost three-quarters of the selected industries presented in this report. The gains ranged from a high of 12.3 percent for the aluminum rolling and drawing industry to a low of 0.3 percent for coal mining. Productivity growth in most industries, however, was slower from 1972-73 than in the previous year. Declines in productivity were recorded by 10 industries in 1973, as compared with seven in 1972. This situation parallels the trend in the total private sector of the economy, where output per man-hour increased 3.0 percent between 1972-73, down from 3.8 percent between 1971-72.

Steel manufacturing was one of the few industries that had a significant gain over the previous year. Output per man-hour grew 10.8 percent between 1972-73, compared to 5.8 percent between 1971-72. This economically important industry had a record production level in 1973, as demand continued high throughout the year. A high output level allowed the industry to take full advantage of its recently installed modern capital equipment, including basic oxygen furnaces and continuous casting units. Output gained 19.0 percent between 1972-73, while man-hours increased 7.4 percent, resulting in the largest productivity gain for the steel industry since 1959. The situation in motor vehicles manufacturing, another major industry, was quite different. Productivity grew by only 2.7 percent between 1972-73, down from 4.1 percent in the previous year, and well below the long term average of 3.9 percent from 1957-72. This industry was greatly affected by the petroleum shortage in the latter part of 1973. While demand was high during the first three quarters of the year, it dropped sharply in the last quarter. Man-hours did not drop off nearly as much as output in the fourth quarter, as manufacturers began to make major changes in production facilities to build more small cars. Despite the falloff in auto sales at the end of the year, output of motor vehicles grew by 14.0 percent between 1972 and 1973. However, man-hours almost matched this gain, growing by 11.0 percent, resulting in the small increase in productivity.

Two other industries significantly affected by the energy shortage were tires and paint manufacturing. Productivity in these industries declined 4.6 and 3.9 percent, respectively. Many of the materials used to make tires and paint are petroleum based and were in very short supply in 1973. Another factor in the productivity decline for the tire industry was the increase in production of radial tires. Auto manufacturers made radials standard for many new cars in 1975. This required a rapid shift to new production facilities by the industry. Among other energy related industries, petroleum refining posted a large productivity

gain of 9.0 percent, based on an increase in output of 6.4 percent and a decline in man-hours of 2.3 percent. Bituminous coal and lignite mining and gas and electric utilities, on the other hand, had very small productivity increases of 0.6 and 0.4 percent, respectively.

Over the short term, gains in productivity generally can be related to gains in output. This was the case between 1972-73, when more than three-quarters of the industries had output increases and almost 90 percent of these had productivity gains. However, output increased less in most industries than the previous year, while man-hours increased more, resulting in the less favorable productivity growth situation in 1973. The employment picture among the selected industries, however, was very good, with about 80 percent recording gains between 1972-73, as compared with about 60 percent the previous year.

Long term trends

All of the industries for which data are available had gains in productivity over the 26-year period -- 1947-73. Increases ranged from a high of 7.6 percent for air transportation to a low of 1.3 percent for the footwear and cigarette manufacturing industries. (See table 1.) A significant factor resulting in the low productivity rate for the footwear industry was the inability to mechanize production operations due to changing styles and the great number of sizes produced. The cigarette industry, on the other hand, has been highly mechanized for a long time. However, technological changes over the period were not significant. The high growth rate for air transportation can be attributed largely to the adoption of the jet plane which increased the speed, capacity, and range of air travel.

In the more recent period, 1968-73, productivity rates ranged from a high of 9.1 percent for man-made fibers to a low of -3.2 percent for coal mining. (See chart 1.) About two-thirds of the industries had growth rates that were lower than the preceding period (1948-68 for most industries). The fairly general slowdown in the growth rate among the selected industries is in line with the experience in the total private economy, where output per man-hour grew at a rate of 2.6 percent from 1968-73, as compared to 3.2 percent from 1948-68. The coal mining industry had a small average increase in output in the 1968-73 period which was more than offset by a large average increase in man-hours, resulting in the significant decrease in productivity. Among the reasons for the productivity decline in this industry were more stringent safety regulations, which particularly slowed production in underground mines, but affected surface mines also, and the impact of work stoppages. (For a graphic presentation of the long term trends in output per man-hour and related data for the selected industries, see charts 2-84.)

New measures

Telephone Communications. Output per man-hour in telephone communications rose at an average annual rate of 6.4 percent between 1951 and 1973, with output advancing at the very high rate of 8.1 percent annually, and man-hours at 1.6 percent. Between 1972-73, labor productivity in the industry increased by 4.7 percent, slightly below the long term rate. Output advanced at 7.8 percent and man-hours at 3.0 percent.

Rapid expansion in the demand for telephone service, together with the introduction of laborsaving technologies have been the chief sources of the large productivity gains in the industry. The wide availability of telephones -- there are more than 60 telephones per 100 persons in the United States -- has in itself spurred demand. The dispersion of homes and businesses in suburbs, population mobility, and the growing communications needs of business and government have been additional demand sources.

Long-distance calls, in particular, have been affected by technological developments. Coaxial cables now have a capacity of more than 90,000 calls transmitted simultaneously, 15 times the number such cables transmitted two decades ago. The capacity of microwave transmitters has tripled in recent years. These and related developments have encouraged direct dialing of long-distance calls, as well as accelerated the demand for private lines. However, technological progress in local service has been slower, and such service, therefore, still requires relatively more labor per unit of output than toll call service.

Continued productivity gains are likely for the telephone industry, although population factors will figure less prominently as a source of demand growth, since the proportion of households with telephones already runs to well over nine-tenths. Technological improvements, however, seem likely to continue to prove laborsaving. Electronic switching, for example, requires less maintenance and repair than electro-mechanical switching systems. The space satellite also will have an impact on communications.

Intercity Trucking. Output per employee in the intercity trucking industry increased at an average rate of 2.7 percent a year between 1954 and 1973. This moderate rate of increase derives from output and employment increases of 6.2 percent and 3.4 percent, respectively. The productivity rate is substantially lower than in other segments of the transportation industry, such as air carriers, railroads, and pipelines. The growth in intercity trucking productivity has reflected the gradual introduction of technological innovation, larger capacity trucks, and an improved interstate highway system.

Between 1972-73, output per employee for the industry grew by 4.7 percent. This greater than average gain in productivity resulted from a large increase in demand for trucking services, particularly in the first half of 1973.

Normal expansion in the production and distribution of goods should continue to contribute to growth of output of the trucking industry and may spur increases in productivity. Truckers expect to increase productivity by using twin- and triple-trailer operations more extensively and by meeting shippers' transportation needs through greater use of specialized trucks. In addition, recent changes in ICC rulings with regard to number of trips, points served, and rate schedules are expected to result in consolidation of shipments and shortening trip length by eliminating circuitous routes.

Since 1955, rail piggyback carloadings have increased tenfold compared with a threefold increase in intercity truck haulage. Similar intermodal links are now also being established with water and air-freight carriers. Such links will undoubtedly raise the productivity of freight transportation as a total system, but may diminish the relative importance of long-distance trucking.

Pharmaceutical Preparations. Output per man-hour in the pharmaceutical industry rose at an average annual rate of 4.9 percent over the 1963-73 decade. Output grew at the very high rate of 8.0 percent annually, and all employee man-hours at 3.0 percent. Between 1972-73, output per man-hour grew 1.4 percent, well below the long term average. Output rose by 5.4 percent and man-hours by 4.0 percent.

Productivity advances in the pharmaceutical industry have been spurred by strong demand as well as technological improvements. Significant demand factors include the large size of population groups susceptible to infectious and organic illness, i.e., children under 5 and adults 55 years old and over. These groups totaled 56 million persons in 1970, 6 percent more than in 1960. In addition, rising incomes, the expanding availability of public and private funds for health care, and spreading health awareness contributed to a broadening of the demand for drugs.

Processing technology has been steadily improved, with tableting presses currently compressing up to twice as many units as in the middle sixties, and mixing and granulating processes speeded up by a factor of three in some plants over the past 10-15 years. Automated and semi-automated techniques for quality control, an integral part of pharmaceutical production operations, have recently been introduced. Computers compare the results generated by quality control equipment with standard specifications. These have tended to eliminate the chance of computational error, and have helped raise the number of samples run through the analytical devices, which control quality, by six to eight times.

Continued gains in the industry's productivity are likely in the years ahead, since it is expected that output will keep growing at a considerably faster rate than man-hours. Demand for drugs will continue to be fueled by the needs of an aging population, and increasing awareness of what is necessary to maintain good health. Product innovation, a crucial factor in the industry's expansion in the earlier post-World War II period, will hinge more on breakthroughs in basic knowledge concerning the drug action in man. A repetition of the "golden age of drug development," which occurred between 1935 and 1965, and which was based on the development of such anti-infectives as penicillins and, to a lesser extent, on oral contraceptives, is not expected soon.

Paints and Allied Products. Output per man-hour grew at the moderate rate of 2.5 percent between 1958-73, reflecting an average increase in output of 3.7 percent and a gain in man-hours of 1.4 percent. In the more recent period, 1968-73, productivity grew at the slow pace of 1.0 percent. Among the reasons for the modest productivity growth were slow introduction of improved technology for paint manufacturing, and slackening in the growth of the total economy in the latter part of the period.

Since paints and allied products are used as coatings for almost all the goods produced in the economy, the slowdown in general economic activity from 1968-73, reinforced by poor years in a number of industries that are particularly large users of paint, such as motor vehicles, furniture, and construction, led to a dropoff in production. Output grew at an average annual rate of only 1.6 percent from 1968-73, compared with 4.7 percent from 1958-68. This in turn affected productivity adversely during the period.

The paint industry was hit particularly hard by the petroleum shortage in 1973. Many of the pigments, vehicles, and solvents used by the industry are derived from petroleum, and were in very short supply. It was mainly because of this problem that the industry had a decline in output between 1972-73. This, coupled with an increase in man-hours, resulted in a decline in productivity of 3.9 percent.

Paint production consists mainly of batch-manufacturing operations. Changes in paintmaking techniques over the period measured have been gradual. Innovations in paintmaking have taken the form of more advanced equipment, more efficiently designed plants, and more usable raw materials. A number of new techniques for coating surfaces are growing in importance. One of these, powder coating, may have an important impact on the industry, since it requires a change in manufacturing techniques. The industry has been affected by environmental controls which have increased the shift from oil-based to water-based paints and led to reductions in the use of lead and mercury ingredients.

The paint manufacturing industry consists of a large number of small firms located throughout the country, and a few large firms with high volume plants. Shipping costs tend to balance out economies of scale, and the industry is highly competitive. Capital expenditures per employee were generally below the average for all manufacturing industries, and research and development expenditures were low. Assuming the continuation of these constraints, plus production techniques that are difficult to automate, the productivity growth rate for this industry will probably continue to be below the manufacturing average.

TABLE 1. SELECTED INDUSTRIES: SIC CODES, 1973 EMPLOYMENT, AND AVERAGE ANNUAL RATES OF CHANGE
IN OUTPUT PER MAN-HOUR, 1947-73 AND 1968-73

SIC Code	Industry title	1973 employment (thousands) ¹			Output per man-hour: Average annual rate of change (percent) ²					
		All employees	Production workers	Non-production workers	1947-73			1968-73		
					All employees	Production workers	Non-production workers ³	All employees	Production workers	Non-production workers ³
<u>Mining</u>										
101	Iron mining, crude ore -----	21	17	4	(*)	5.4	(*)	(*)	5.8	(*)
101	Iron mining, usable ore -----	21	17	4	(*)	2.3	(*)	(*)	3.8	(*)
102	Copper mining, crude ore -----	42	34	8	(*)	4.7	(*)	(*)	3.6	(*)
102	Copper mining, recoverable metal -----	42	34	8	(*)	2.8	(*)	(*)	0.6	(*)
11, 12	Coal mining -----	162	138	23	(*)	5.1	(*)	(*)	-3.2	(*)
12	Bituminous coal and lignite mining -----	158	135	23	(*)	5.2	(*)	(*)	-3.1	(*)
<u>Manufacturing</u>										
203	Canning and preserving -----	284	236	48	⁵ 3.2	⁵ 3.4	⁵ (2.1)	⁶ 2.0	⁶ 2.5	⁶ (-0.5)
2041	Flour and other grain mill products -----	28	20	8	4.1	4.3	(3.6)	4.0	3.9	(4.5)
205	Bakery products -----	270	154	115	2.4	2.7	(1.9)	2.9	3.3	(2.2)
206	Sugar -----	34	26	8	4.2	4.3	(3.3)	2.6	2.7	(2.3)
2071	Candy and other confectionery products -----	62	51	12	3.2	3.2	(3.2)	2.2	2.8	(-0.5)
2082	Malt liquors -----	52	35	18	5.1	5.2	(4.9)	7.4	7.6	(7.0)
2086	Bottled and canned soft drinks -----	128	48	80	(*)	(*)	(*)	5.5	6.1	(5.2)
211, 212, 213	Tobacco products--total -----	56	50	7	3.1	3.4	(0.9)	1.3	1.4	(*)
211, 213	Cigarettes, chewing and smoking tobacco -----	44	38	5	1.3	1.5	(-0.2)	0.3	0.4	(-0.4)
212	Cigars -----	13	12	1	5.7	5.9	(3.2)	3.7	3.9	(2.3)
2251, 2252	Hosiery -----	89	79	10	5.4	5.6	(3.8)	7.2	8.0	(0.6)
261, 262, 263, 266	Paper, paperboard and pulp mills -----	282	221	61	4.0	4.3	(2.1)	5.0	5.5	(3.8)
2653	Corrugated and solid fiber boxes -----	115	89	26	(*)	(*)	(*)	4.1	4.4	(3.1)
2823, 2824	Man-made fibers -----	122	80	33	(*)	(*)	(*)	9.1	8.8	(10.1)
2834	Pharmaceutical preparations -----	121	59	62	(*)	(*)	(*)	5.6	7.1	(*)
285	Paints and allied products -----	70	39	31	(*)	(*)	(*)	1.0	1.1	(0.9)
291	Petroleum refining -----	147	89	58	5.8	6.2	(4.6)	5.8	5.3	(7.0)
301	Tires and inner tubes -----	137	98	38	3.9	4.1	(3.1)	1.4	1.2	(2.3)
314	Footwear -----	196	170	26	1.3	1.4	(0.9)	0.4	0.7	(-2.6)
3221	Glass containers -----	78	68	10	1.7	1.8	(1.1)	0.4	0.4	(0.5)
324	Hydraulic cement -----	34	26	7	4.5	4.9	(2.3)	3.3	3.1	(4.2)
3271, 3272	Concrete products -----	89	67	22	⁵ 3.5	⁵ 3.8	⁵ (1.9)	⁶ 3.8	⁶ 4.3	⁶ (2.0)
3273	Ready-mixed concrete -----	83	55	28	(*)	(*)	(*)	⁶ 0.4	(*)	(*)
331	Steel -----	606	488	119	1.8	2.2	(*)	3.2	3.0	(3.9)
3321	Gray iron foundries -----	150	128	22	⁸ 2.2	⁸ 2.3	⁸ (1.8)	2.1	2.2	(1.2)
3323	Steel foundries -----	60	48	12	⁸ 1.4	⁸ 1.5	⁸ (0.8)	2.8	3.0	(1.9)
3331, 3332, 3333	Primary copper, lead, and zinc -----	26	21	5	2.3	2.5	(1.2)	3.9	4.2	(2.6)
3334	Primary aluminum -----	31	26	5	4.5	4.8	(3.4)	4.7	5.3	(2.0)
3352	Aluminum rolling and drawing -----	70	52	18	(*)	(*)	(*)	7.6	7.4	(8.8)
341	Metal cans -----	68	58	10	2.3	2.3	(2.3)	1.0	1.1	(0.2)
3631, 2, 3, 9	Major household appliances -----	102	83	19	5.3	4.9	(6.6)	4.8	4.7	(4.8)
3651	Radio and television receiving sets -----	86	69	16	⁹ 6.4	⁹ 6.3	⁹ (6.8)	(*)	(*)	(*)
371	Motor vehicles and equipment -----	941	731	210	(*)	(*)	(*)	4.2	4.1	(4.4)
<u>Other</u>										
401, Class I	Railroads, revenue traffic -----	552	487	65	5.2	5.4	3.1	4.4	4.5	3.3
401, Class I	Railroads, car-miles -----	552	487	65	3.9	4.1	1.8	2.8	2.9	1.7
4213 PT.	Intercity trucking -----	653	(*)	(*)	^{8,10} 2.7	(*)	(*)	¹⁰ 2.9	(*)	(*)
4213 PT.	Intercity trucking, general freight -----	426	(*)	(*)	^{8,10} 2.1	(*)	(*)	¹⁰ 2.2	(*)	(*)
451	Air transportation -----	300	(*)	(*)	¹⁰ 7.6	(*)	(*)	¹⁰ 5.1	(*)	(*)
4612, 4613	Petroleum pipelines -----	18	¹¹ 14	¹² 4	(*)	(*)	(*)	^{6,11} 7.1	(*)	(*)
481	Telephone communications -----	982	(*)	(*)	¹⁰ 6.4	(*)	(*)	4.2	(*)	(*)
491, 492, 493	Gas and electric utilities -----	681	¹¹ 577	¹⁰ 104	6.7	¹¹ 7.2	(*)	3.7	¹¹ 4.0	(*)

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 1947-72.

⁶ Average annual rate of change is for 1968-72.

⁷ Less than .05 percent.

⁸ Average annual rate of change is for 1954-73.

⁹ Average annual rate of change is for 1958-71.

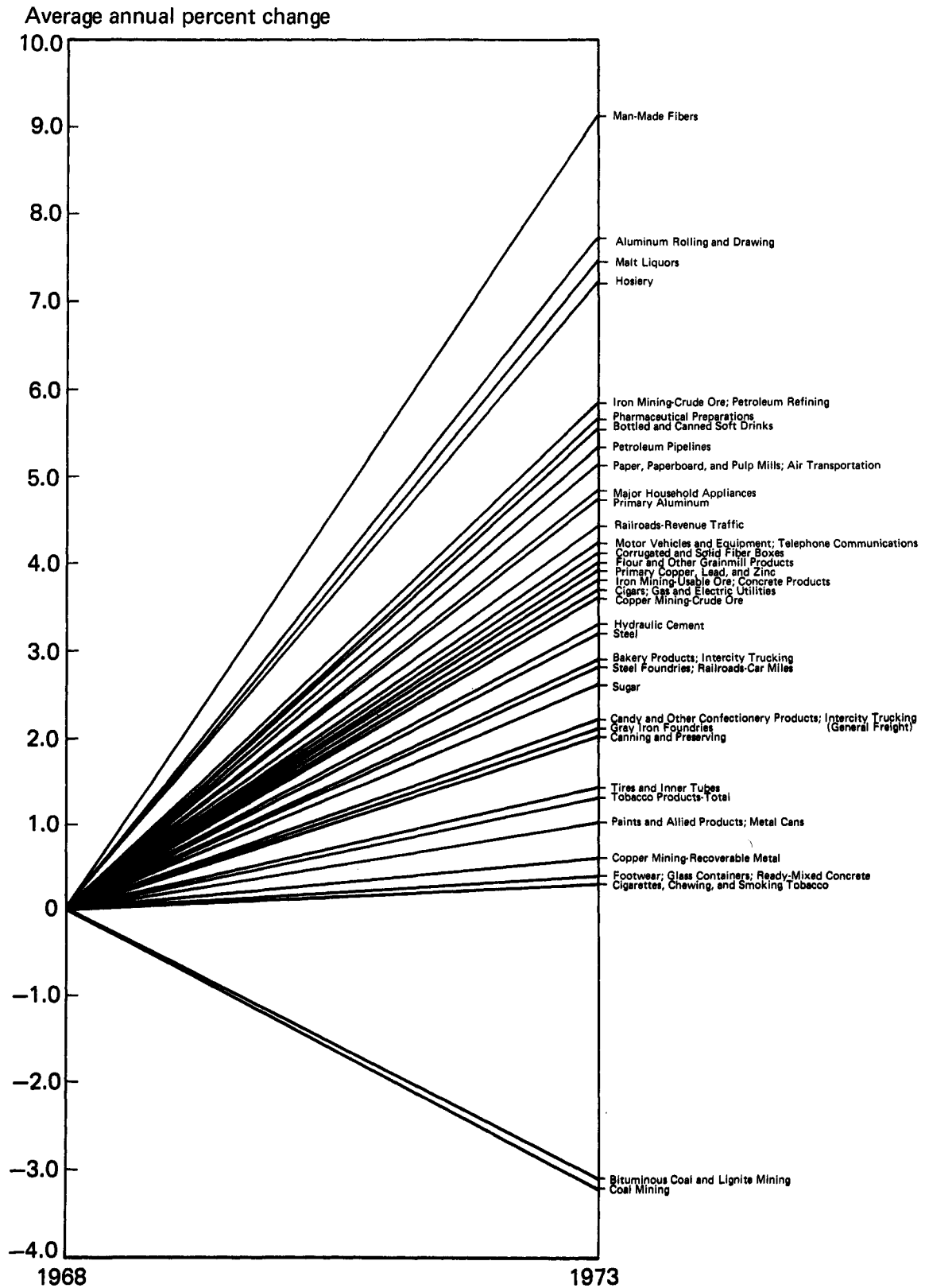
¹⁰ Output per employee.

¹¹ Nonsupervisory personnel.

¹² Supervisory personnel and force account construction workers.

¹³ Average annual rate of change is for 1951-73.

Chart 1: Growth in Output Per Man-Hour in Selected Industries, 1968-73



Methods and Data

The indexes of output per man-hour are computed by dividing an output index by an index of aggregate man-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 man-hours. Indexes of unit labor requirements are not shown in this issue. They may be derived for each industry, however, by dividing an index of employment or man-hours by an index of output.

The output indexes are based primarily on the physical output of the products of the industry combined with fixed period weights. Unit man-hour weights are used whenever possible. However, for most industries, unit value weights, which are assumed to be proportional to unit man-hour weights, are used as substitute weights. Indexes for 1947-58 are based on 1947 weights; for 1958-63, 1958 weights; for 1963-67, 1963 weights; and for 1967-73, 1967 weights. For three industries -- railroads, iron mining, and copper mining -- two alternative productivity measures, using different concepts of industry output, are presented.

Employment and man-hour indexes are developed primarily from basic data compiled by the Bureau of the Census or the Bureau of Labor Statistics. In concept, indexes based on man-hour data from the Bureau of the Census relate to plant hours only. Man-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 increases in paid leave during the period, output per man-hour worked would tend to show a somewhat higher rate of gain than output per man-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 man-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

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.

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."

of the Census and the Bureau of Labor Statistics provide data on production worker man-hours, neither source provides annual data by industry on nonproduction worker or all employee man-hours. Therefore, the nonproduction worker man-hours are estimated.

The estimates of aggregate nonproduction worker man-hours for the manufacturing industries are derived from published employment data and from estimates of average annual hours worked or paid per nonproduction worker. The estimates of average annual hours paid are 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 are subtracted from average annual hours paid to obtain an estimate of average annual hours worked. Vacation and holiday trends are 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 has been estimated as a constant on the basis of data obtained from various sources.

All employee man-hour estimates for manufacturing industries are derived by summing the aggregate man-hours for production workers and the estimated aggregate man-hours for nonproduction workers. 3/

Indexes involving nonproduction worker man-hours are subject to a wider margin of error than are the indexes involving only production worker man-hours, because it was necessary to estimate the average man-hours of nonproduction workers. Any errors in these estimates, however, would have a relatively insignificant effect on the indexes of man-hours for all employees.

The output indexes and man-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 1973 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 estimates using other information, such as the Federal Reserve Board output indexes, the Current Industrial Reports of the Bureau of the Census, and trade association data, are used. For those industries using the Bureau of the Census or ICC as the primary source of employment and man-hours, the 1973 indexes are developed by linking employment and man-hour data from the Bureau of Labor Statistics, since 1973 Census data are not yet available. Because of these estimates, all 1973 output per man-hour measures are considered preliminary and are subject to revision.

3/ The ICC publishes all employee man-hours for the railroad transportation industry.

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

All average annual rates of change 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 101
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	34.9	(2/)	29.5	(2/)
1947.....	40.8	43.7	38.8	87.1
1948.....	41.4	45.2	40.4	83.7
1949.....	39.5	40.6	37.1	64.2
1950.....	43.7	46.0	42.3	70.2
1951.....	48.0	52.2	48.1	77.7
1952.....	45.2	49.4	46.8	62.8
1953.....	47.3	50.2	47.4	65.2
1954.....	42.9	39.6	38.3	46.0
1955.....	55.3	53.6	52.5	58.0
1956.....	57.6	53.9	54.2	52.8
1957.....	58.2	53.3	54.2	50.2
1958.....	56.8	45.4	48.4	36.6
1959.....	58.7	48.7	52.3	38.2
1960.....	66.3	61.3	62.6	56.3
1961.....	76.7	66.9	70.3	56.2
1962.....	82.4	74.9	78.1	64.4
1963.....	91.1	83.5	84.7	78.4
1964.....	98.6	94.3	94.3	94.3
1965.....	95.1	93.3	92.6	96.1
1966.....	96.1	96.6	96.2	97.8
1967.....	100.0	100.0	100.0	100.0
1968.....	110.0	108.2	109.2	104.5
1969.....	117.8	113.4	116.2	103.9
1970.....	118.0	115.8	117.8	108.7
1971.....	123.4	115.8	119.0	104.8
1972.....	138.1	130.7	135.3	114.8
1973 ^{3/}	147.5	145.2	149.9	129.2
AVERAGE ANNUAL RATES (PERCENT)				
1947-73....	5.4	5.0	5.5	2.5
1968-73....	5.8	5.6	6.0	3.9

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 101
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	33.4	95.7	(1/)	113.4	(1/)
1947.....	64.4	157.8	147.4	166.1	73.9
1948.....	71.0	171.4	157.1	175.7	84.8
1949.....	58.7	148.5	144.7	158.3	91.4
1950.....	70.2	160.6	152.6	166.1	100.0
1951.....	84.5	176.0	161.9	175.7	108.8
1952.....	71.0	157.0	143.8	151.7	113.1
1953.....	86.4	182.6	172.2	182.3	132.6
1954.....	60.0	139.9	151.4	156.7	130.5
1955.....	78.2	141.4	146.0	148.9	134.9
1956.....	80.4	139.5	149.2	148.4	152.2
1957.....	88.5	152.1	165.9	163.4	176.2
1958.....	60.5	106.5	133.2	125.0	165.3
1959.....	56.6	96.4	116.3	108.3	148.0
1960.....	85.7	129.2	139.9	136.8	152.2
1961.....	75.8	98.8	113.3	107.8	134.9
1962.....	79.8	96.8	106.6	102.2	124.0
1963.....	85.3	93.6	102.2	100.7	108.8
1964.....	96.4	97.8	102.2	102.2	102.2
1965.....	98.2	103.3	105.3	106.1	102.2
1966.....	100.0	104.1	103.5	103.9	102.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	106.8	97.1	98.7	97.8	102.2
1969.....	112.9	95.8	99.6	97.2	108.7
1970.....	115.8	98.1	100.0	98.3	106.5
1971.....	107.1	86.8	92.5	90.0	102.2
1972.....	102.3	74.1	78.3	75.6	89.1
1973 ^{2/}	120.8	81.9	83.2	80.6	93.5
AVERAGE ANNUAL RATES (PERCENT)					
1947-73....	2.3	-3.0	-2.6	-3.1	-0.2
1968-73....	0.7	-4.9	-4.6	-5.0	-3.0

1/ Not available.

2/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 101
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	62.8	(2/)	53.0	(2/)
1947.....	68.7	73.5	65.3	146.7
1948.....	68.7	75.0	67.0	138.9
1949.....	66.7	68.4	62.5	108.3
1950.....	71.2	75.0	68.9	114.4
1951.....	77.4	84.1	77.5	125.2
1952.....	72.9	79.6	75.5	101.2
1953.....	75.7	80.3	75.8	104.2
1954.....	65.1	60.2	58.1	69.8
1955.....	84.7	82.1	80.5	88.8
1956.....	81.2	75.9	76.3	74.4
1957.....	80.9	74.1	75.3	69.8
1958.....	73.1	58.5	62.3	47.1
1959.....	72.0	59.7	64.1	46.9
1960.....	79.7	73.6	75.3	67.7
1961.....	83.9	73.2	76.9	61.5
1962.....	86.6	78.6	82.0	67.6
1963.....	91.8	84.1	85.3	79.0
1964.....	101.4	97.1	97.1	97.1
1965.....	99.7	97.8	97.1	100.8
1966.....	102.5	103.1	102.7	104.4
1967.....	100.0	100.0	100.0	100.0
1968.....	105.1	103.4	104.4	99.9
1969.....	109.6	105.4	108.0	96.6
1970.....	108.7	106.6	108.4	100.1
1971.....	110.6	103.8	106.7	93.9
1972.....	121.6	115.1	119.2	101.1
1973 ^{3/}	127.5	125.5	129.5	111.7
AVERAGE ANNUAL RATES (PERCENT)				
1947-73....	2.3	2.0	2.5	-0.5
1968-73....	3.8	3.5	4.0	1.8

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 101
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	60.1	95.7	(1/)	113.4	(1/)
1947.....	108.4	157.8	147.4	166.1	73.9
1948.....	117.8	171.4	157.1	175.7	84.8
1949.....	99.0	148.5	144.7	158.3	91.4
1950.....	114.4	160.6	152.6	166.1	100.0
1951.....	136.2	176.0	161.9	175.7	108.8
1952.....	114.5	157.0	143.8	151.7	113.1
1953.....	138.2	182.6	172.2	182.3	132.6
1954.....	91.1	139.9	151.4	156.7	130.5
1955.....	119.8	141.4	146.0	148.9	134.9
1956.....	113.3	139.5	149.2	148.4	152.2
1957.....	123.0	152.1	165.9	163.4	176.2
1958.....	77.9	106.5	133.2	125.0	165.3
1959.....	69.4	96.4	116.3	108.3	148.0
1960.....	103.0	129.2	139.9	136.8	152.2
1961.....	82.9	98.8	113.3	107.8	134.9
1962.....	83.8	96.8	106.6	102.2	124.0
1963.....	85.9	93.6	102.2	100.7	108.8
1964.....	99.2	97.8	102.2	102.2	102.2
1965.....	103.0	103.3	105.3	106.1	102.2
1966.....	106.7	104.1	103.5	103.9	102.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	102.1	97.1	98.7	97.8	102.2
1969.....	105.0	95.8	99.6	97.2	108.7
1970.....	106.6	98.1	100.0	98.3	106.5
1971.....	96.0	86.8	92.5	90.0	102.2
1972.....	90.1	74.1	78.3	75.6	89.1
1973 ^{2/}	104.4	81.9	83.2	80.6	93.5
AVERAGE ANNUAL RATES (PERCENT)					
1947-73....	-0.7	-3.0	-2.6	-3.1	-0.2
1968-73....	-1.3	-4.9	-4.6	-5.0	-3.0

^{1/} Not available.

^{2/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 102
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>	OUTPUT PER EMPLOYEE <u>1/</u>		
	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	28.2	(2/)	27.8	(2/)
1947.....	44.5	53.1	47.0	83.4
1948.....	42.8	51.7	45.6	82.3
1949.....	43.9	49.0	43.7	74.1
1950.....	52.5	61.3	55.5	86.5
1951.....	52.2	61.7	56.7	82.4
1952.....	54.8	63.2	58.8	80.1
1953.....	51.8	59.4	55.8	71.9
1954.....	53.7	56.5	53.8	64.7
1955.....	60.5	65.6	62.7	75.5
1956.....	61.4	66.7	63.0	80.0
1957.....	67.3	67.8	64.8	77.7
1958.....	74.3	70.0	68.1	76.0
1959.....	75.8	75.6	75.2	76.8
1960.....	77.6	82.2	80.2	88.7
1961.....	79.4	86.0	80.5	106.7
1962.....	86.5	93.1	86.1	120.5
1963.....	86.0	94.5	86.2	129.6
1964.....	96.9	105.3	96.6	140.5
1965.....	98.5	109.3	99.4	151.2
1966.....	103.0	114.1	104.3	154.7
1967.....	100.0	100.0	100.0	100.0
1968.....	109.6	121.1	119.8	125.2
1969.....	116.2	133.1	125.2	162.2
1970.....	126.9	140.3	131.9	170.4
1971.....	137.2	140.5	136.9	151.7
1972.....	135.2	137.1	130.8	158.1
1973 <u>3/</u>	126.1	131.6	124.1	158.8
AVERAGE ANNUAL RATES (PERCENT)				
1947-73....	4.7	4.3	4.5	3.5
1968-73....	3.6	1.5	1.0	2.9

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

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 102
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT ^{1/}	MAN-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	40.9	144.9	(2/)	146.9	(2/)
1947.....	66.1	148.6	124.5	140.7	79.3
1948.....	63.9	149.2	123.6	140.1	77.6
1949.....	57.5	130.9	117.3	131.5	77.6
1950.....	71.6	136.5	116.8	129.0	82.8
1951.....	72.4	138.8	117.3	127.8	87.9
1952.....	75.9	138.6	120.0	129.0	94.8
1953.....	76.9	148.5	129.5	137.7	106.9
1954.....	71.4	133.0	126.4	132.7	110.3
1955.....	85.9	142.1	130.9	137.0	113.8
1956.....	100.7	164.0	150.9	159.9	125.9
1957.....	99.2	147.4	146.4	153.1	127.6
1958.....	87.8	118.2	125.5	129.0	115.5
1959.....	79.4	104.8	105.0	105.6	103.4
1960.....	103.9	133.9	126.4	129.6	117.2
1961.....	110.3	138.9	128.2	137.0	103.4
1962.....	116.4	134.6	125.0	135.2	96.6
1963.....	113.9	132.4	120.5	132.1	87.9
1964.....	121.1	125.0	115.0	125.3	86.2
1965.....	135.6	137.7	124.1	136.4	89.7
1966.....	146.7	142.4	128.6	140.7	94.8
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	133.8	122.1	110.5	111.7	106.9
1969.....	176.1	151.5	132.3	140.7	108.6
1970.....	202.8	159.8	144.5	153.7	119.0
1971.....	191.0	139.2	135.9	139.5	125.9
1972.....	210.0	155.3	153.2	160.5	132.8
1973 ^{3/}	219.0	173.7	166.4	176.5	137.9
AVERAGE ANNUAL RATES (PERCENT)					
1947-73....	4.8	0.1	0.4	0.2	1.2
1968-73....	8.7	5.0	7.2	7.7	5.7

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 102
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	51.2	(2/)	50.5	(2/)
1947.....	58.9	70.3	62.2	110.3
1948.....	57.7	69.7	61.5	111.0
1949.....	58.8	65.6	58.6	99.2
1950.....	68.4	80.0	72.4	112.8
1951.....	68.6	81.2	74.5	108.3
1952.....	68.8	79.4	73.9	100.5
1953.....	64.6	74.1	69.7	89.8
1954.....	65.0	68.4	65.2	78.4
1955.....	73.0	79.3	75.8	91.2
1956.....	70.1	76.1	71.9	91.3
1957.....	76.5	77.0	73.7	88.4
1958.....	86.3	81.3	79.1	88.3
1959.....	81.8	81.6	81.2	82.9
1960.....	84.0	89.0	86.8	96.0
1961.....	87.5	94.8	88.7	117.5
1962.....	95.0	102.3	94.6	132.4
1963.....	95.4	104.8	95.6	143.7
1964.....	103.9	113.0	103.7	150.7
1965.....	102.5	113.8	103.5	157.4
1966.....	105.0	116.3	106.3	157.7
1967.....	100.0	100.0	100.0	100.0
1968.....	103.4	114.3	113.1	118.1
1969.....	106.9	122.4	115.1	149.1
1970.....	112.8	124.7	117.2	151.4
1971.....	114.6	117.4	114.3	126.7
1972.....	112.4	113.9	108.7	131.4
1973 ^{3/}	104.2	108.8	102.5	131.3
AVERAGE ANNUAL RATES (PERCENT)				
1947-73....	2.8	2.4	2.6	1.6
1968-73....	0.6	-1.5	-1.9	-0.1

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 102
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT ^{1/}	MAN-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	74.2	144.9	(2/)	146.9	(2/)
1947.....	87.5	148.6	124.5	140.7	79.3
1948.....	86.1	149.2	123.6	140.1	77.6
1949.....	77.0	130.9	117.3	131.5	77.6
1950.....	93.4	136.5	116.8	129.0	82.8
1951.....	95.2	138.8	117.3	127.8	87.9
1952.....	95.3	138.6	120.0	129.0	94.8
1953.....	96.0	148.5	129.5	137.7	106.9
1954.....	86.5	133.0	126.4	132.7	110.3
1955.....	103.8	142.1	130.9	137.0	113.8
1956.....	114.9	164.0	150.9	159.9	125.9
1957.....	112.8	147.4	146.4	153.1	127.6
1958.....	102.0	118.2	125.5	129.0	115.5
1959.....	85.7	104.8	105.0	105.6	103.4
1960.....	112.5	133.9	126.4	129.6	117.2
1961.....	121.5	138.9	128.2	137.0	103.4
1962.....	127.9	134.6	125.0	135.2	96.6
1963.....	126.3	132.4	120.5	132.1	87.9
1964.....	129.9	125.0	115.0	125.3	86.2
1965.....	141.2	137.7	124.1	136.4	89.7
1966.....	149.5	142.4	128.6	140.7	94.8
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	126.3	122.1	110.5	111.7	106.9
1969.....	161.9	151.5	132.3	140.7	108.6
1970.....	180.2	159.8	144.5	153.7	119.0
1971.....	159.5	139.2	135.9	139.5	125.9
1972.....	174.5	155.3	153.2	160.5	132.8
1973 ^{3/}	181.0	173.7	166.4	176.5	137.9
		AVERAGE ANNUAL RATES (PERCENT)			
1947-73....	2.9	0.1	0.4	0.2	1.2
1968-73....	5.6	5.0	7.2	7.7	5.7

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 11, 12
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	29.2	23.3	21.6	55.3
1947.....	32.8	34.7	32.3	70.9
1948.....	32.8	32.6	30.4	66.1
1949.....	34.4	26.4	24.8	48.6
1950.....	37.1	32.7	30.8	59.5
1951.....	37.3	33.5	31.5	62.1
1952.....	39.2	33.6	31.8	57.1
1953.....	42.2	36.5	34.6	59.7
1954.....	49.3	40.5	39.1	55.2
1955.....	52.8	49.9	48.0	68.0
1956.....	55.3	52.1	50.5	67.7
1957.....	56.1	50.6	49.4	60.6
1958.....	62.3	50.5	50.8	49.4
1959.....	63.6	54.9	55.4	51.7
1960.....	67.3	58.4	59.0	54.8
1961.....	74.1	65.0	65.5	62.2
1962.....	78.7	71.9	71.7	73.2
1963.....	81.6	79.1	78.2	86.1
1964.....	86.7	84.4	83.5	91.2
1965.....	92.4	91.4	91.0	94.7
1966.....	97.6	97.6	97.6	97.9
1967.....	100.0	100.0	100.0	100.0
1968.....	105.4	103.5	104.0	99.6
1969.....	105.3	103.4	103.7	100.6
1970.....	102.7	103.0	103.2	101.3
1971.....	97.4	93.6	97.4	73.4
1972.....	92.0	91.0	93.2	78.6
1973 ^{2/}	92.2	89.8	90.9	82.6
AVERAGE ANNUAL RATES (PERCENT)				
1947-73....	5.1	5.6	5.9	2.1
1968-73....	-3.2	-3.3	-3.0	-5.5

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

^{2/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 11, 12
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	85.1	291.3	364.6	394.5	153.9
1947.....	130.3	396.9	375.6	402.8	183.7
1948.....	124.6	379.7	382.4	409.8	188.5
1949.....	91.6	266.1	347.5	369.9	188.5
1950.....	106.7	287.6	325.9	346.7	179.4
1951.....	108.4	291.0	323.4	344.6	174.6
1952.....	96.2	245.1	285.9	302.5	168.5
1953.....	91.2	216.0	249.7	263.4	152.8
1954.....	79.0	160.1	195.0	202.2	143.0
1955.....	91.1	172.5	182.7	189.6	133.9
1956.....	98.9	178.7	189.7	195.8	146.1
1957.....	96.6	172.2	191.0	195.5	159.4
1958.....	80.9	129.9	160.1	159.4	163.7
1959.....	80.8	127.0	147.2	145.9	156.3
1960.....	80.6	119.7	138.0	136.6	147.2
1961.....	77.6	104.7	119.4	118.5	124.8
1962.....	80.7	102.6	112.3	112.5	110.2
1963.....	87.6	107.3	110.8	112.0	101.8
1964.....	91.7	105.8	108.7	109.8	100.6
1965.....	94.7	102.5	103.6	104.1	100.0
1966.....	97.3	99.7	99.7	99.7	99.4
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	98.4	93.4	95.1	94.6	98.8
1969.....	100.6	95.5	97.3	97.0	100.0
1970.....	107.5	104.7	104.4	104.2	106.1
1971.....	98.3	100.9	105.0	100.9	133.9
1972.....	105.3	114.5	115.7	113.0	133.9
1973 ^{1/}	104.2	113.0	116.0	114.6	126.1
AVERAGE ANNUAL RATES (PERCENT)					
1947-73.....	-0.2	-5.0	-5.5	-5.8	-2.3
1968-73.....	1.0	4.3	4.4	4.0	6.9

^{1/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 12
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}	OUTPUT PER EMPLOYEE ^{1/}		
	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	28.2	22.8	21.0	55.8
1947.....	32.1	34.1	31.8	70.6
1948.....	32.0	31.7	29.6	63.6
1949.....	33.7	25.8	24.2	47.0
1950.....	36.9	32.6	30.7	58.8
1951.....	36.7	33.5	31.4	61.8
1952.....	38.8	33.3	31.5	55.9
1953.....	42.0	37.1	35.2	60.8
1954.....	48.8	40.4	38.7	57.6
1955.....	52.6	50.1	48.1	69.8
1956.....	54.3	51.6	50.0	66.9
1957.....	55.6	50.6	49.5	59.2
1958.....	61.6	50.1	50.4	48.5
1959.....	62.8	54.4	55.0	50.3
1960.....	66.7	58.0	58.6	54.1
1961.....	73.6	64.3	64.9	60.7
1962.....	77.9	70.8	70.7	71.0
1963.....	80.8	78.2	77.2	85.1
1964.....	86.6	84.4	83.4	91.4
1965.....	92.7	92.0	91.6	95.1
1966.....	97.9	97.9	98.1	96.9
1967.....	100.0	100.0	100.0	100.0
1968.....	105.1	103.1	103.9	98.1
1969.....	105.4	103.3	103.9	99.5
1970.....	103.2	103.1	103.5	100.6
1971.....	98.0	93.5	97.8	71.7
1972.....	92.0	90.4	92.6	77.3
1973 ^{2/}	92.6	89.3	90.5	81.6
AVERAGE ANNUAL RATES (PERCENT)				
1947-73....	5.2	5.6	6.0	2.1
1968-73....	-3.1	-3.4	-3.1	-5.6

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

^{2/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 12
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS	EMPLOYMENT		
		PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	71.7	254.2	314.2	340.7	128.4
1947.....	114.4	356.5	335.5	360.3	162.1
1948.....	108.8	339.8	342.7	367.0	171.0
1949.....	79.4	235.8	308.0	327.8	169.1
1950.....	93.7	254.1	287.2	305.3	159.4
1951.....	96.9	264.2	289.4	308.3	156.8
1952.....	84.7	218.2	254.1	268.8	151.6
1953.....	82.9	197.3	223.3	235.6	136.3
1954.....	71.0	145.5	175.9	183.5	123.3
1955.....	84.7	161.1	169.2	176.0	121.4
1956.....	91.6	168.7	177.5	183.2	136.9
1957.....	90.5	162.9	179.0	182.7	153.0
1958.....	75.7	122.8	151.0	150.2	156.2
1959.....	75.9	120.9	139.6	138.0	151.0
1960.....	76.4	114.6	131.8	130.3	141.3
1961.....	74.0	100.5	115.0	114.0	122.0
1962.....	77.5	99.5	109.4	109.6	109.1
1963.....	84.1	104.1	107.6	108.9	98.8
1964.....	89.0	102.8	105.5	106.7	97.4
1965.....	93.3	100.7	101.4	101.9	98.1
1966.....	96.9	99.0	99.0	98.8	100.0
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	98.7	93.9	95.7	95.0	100.6
1969.....	101.4	96.2	98.2	97.6	101.9
1970.....	109.1	105.7	105.8	105.4	108.4
1971.....	99.9	101.9	106.8	102.1	139.4
1972.....	107.7	117.1	119.1	116.3	139.4
1973 1/.....	106.9	115.5	119.7	118.1	131.0
AVERAGE ANNUAL RATES (PERCENT)					
1947-73.....	0.5	-4.5	-4.8	-5.2	-1.6
1968-73.....	1.4	4.6	5.0	4.6	7.4

1/ 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 MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	43.7	(3/)	(3/)	40.2	(3/)
1947.....	50.7	48.5	(70.1)	50.4	47.9	76.7
1948.....	51.5	49.8	(64.4)	49.6	47.5	70.1
1949.....	55.5	54.1	(66.1)	53.8	52.0	70.7
1950.....	61.1	59.7	(71.6)	59.9	58.0	76.2
1951.....	63.6	61.5	(79.2)	63.6	61.3	85.0
1952.....	63.2	61.8	(73.8)	62.6	60.7	78.9
1953.....	64.1	62.6	(74.1)	62.8	61.0	79.0
1954.....	68.9	67.6	(77.7)	67.0	65.0	82.4
1955.....	71.5	70.4	(78.1)	69.2	67.6	82.2
1956.....	76.3	74.9	(85.0)	75.5	73.7	89.7
1957.....	77.4	77.4	(76.3)	75.7	75.1	79.6
1958.....	76.2	77.2	(69.3)	75.2	75.7	71.7
1959.....	79.3	80.4	(71.9)	77.2	77.6	74.5
1960.....	84.1	85.0	(77.7)	82.3	82.5	79.6
1961.....	89.7	91.0	(81.8)	86.7	87.2	82.6
1962.....	90.7	91.1	(85.3)	89.1	89.6	85.6
1963.....	90.9	91.6	(85.9)	89.2	89.6	86.1
1964.....	95.9	96.0	(94.2)	95.4	95.3	94.8
1965.....	101.0	100.8	(101.4)	102.0	101.9	101.7
1966.....	99.4	98.5	(103.9)	101.1	100.6	103.9
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	107.4	107.2	(108.7)	109.5	109.3	109.6
1969.....	103.5	102.8	(107.0)	105.9	105.6	107.5
1970.....	105.7	105.9	(104.9)	106.8	107.1	105.3
1971.....	111.1	112.2	(105.7)	111.2	112.3	106.1
1972 ^{4/}	114.7	116.4	(106.9)	115.0	116.7	106.9
AVERAGE ANNUAL RATES (PERCENT)						
1947-72....	3.2	3.4	(2.1)	3.4	3.6	1.7
1968-72....	2.0	2.5	(-0.5)	1.5	1.9	-0.6

^{1/} The output measures underlying the output per man-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 man-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, 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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	30.4	(2/)	69.6	(2/)	(2/)	75.7	(2/)
1947.....	48.6	95.9	100.3	(69.3)	96.4	101.5	63.4
1948.....	48.1	93.4	96.5	(74.7)	96.9	101.2	68.6
1949.....	49.7	89.5	91.9	(75.2)	92.3	95.5	70.3
1950.....	53.1	86.9	89.0	(74.2)	88.7	91.5	69.7
1951.....	60.3	94.8	98.0	(76.1)	94.8	98.4	70.9
1952.....	58.0	91.7	93.9	(78.6)	92.7	95.6	73.5
1953.....	60.8	94.8	97.1	(82.0)	96.8	99.7	77.0
1954.....	61.4	89.1	90.8	(79.0)	91.7	94.4	74.5
1955.....	64.1	89.6	91.0	(82.1)	92.6	94.8	78.0
1956.....	71.7	94.0	95.7	(84.4)	95.0	97.3	79.9
1957.....	68.7	88.8	88.8	(90.0)	90.8	91.5	86.3
1958.....	67.7	88.9	87.7	(97.7)	90.0	89.4	94.4
1959.....	71.6	90.3	89.0	(99.6)	92.7	92.3	96.1
1960.....	76.0	90.4	89.4	(97.8)	92.4	92.1	95.5
1961.....	81.2	90.5	89.2	(99.3)	93.7	93.1	98.3
1962.....	85.3	94.0	93.6	(100.0)	95.7	95.2	99.7
1963.....	84.0	92.4	91.7	(97.8)	94.2	93.7	97.6
1964.....	89.5	93.3	93.2	(95.0)	93.8	93.9	94.4
1965.....	97.2	96.2	96.4	(95.9)	95.3	95.4	95.6
1966.....	101.1	101.7	102.6	(97.3)	100.0	100.5	97.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	110.0	102.4	102.6	(101.2)	100.5	100.6	100.4
1969.....	109.4	105.7	106.4	(102.2)	103.3	103.6	101.8
1970.....	110.3	104.4	104.2	(105.1)	103.3	103.0	104.7
1971.....	114.2	102.8	101.8	(108.0)	102.7	101.7	107.6
1972 <u>3/</u>	116.7	101.7	100.3	(109.2)	101.5	100.0	109.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-72.....	3.8	0.5	0.4	(1.7)	0.4	0.2	2.1
1968-72.....	1.6	-0.4	-0.9	(2.1)	0.1	-0.3	2.3

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 man-hours.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the National Cannery Association; U.S. Department of Agriculture; the Bureau of Labor Statistics, U.S. Department of Labor; 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 16. FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	54.5	(3/)	(3/)	50.8	(3/)
1947.....	53.3	49.8	(68.7)	58.0	53.8	72.7
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	49.2	47.2	(56.9)	49.8	46.9	59.7
1950.....	50.4	48.7	(56.7)	49.9	47.1	59.4
1951.....	50.1	48.2	(57.4)	50.8	47.9	60.3
1952.....	48.9	47.5	(54.3)	50.6	48.5	57.1
1953.....	52.8	50.4	(62.1)	54.6	51.4	64.9
1954.....	58.4	57.7	(60.6)	59.0	57.5	63.2
1955.....	60.8	60.6	(61.5)	60.8	59.8	63.7
1956.....	63.9	63.6	(65.1)	63.7	62.3	67.7
1957.....	69.4	69.2	(70.2)	69.1	67.9	72.8
1958.....	70.7	71.8	(68.0)	69.3	68.8	70.5
1959.....	68.3	68.3	(68.3)	68.8	68.1	70.8
1960.....	71.7	72.2	(70.5)	73.4	73.9	72.3
1961.....	74.6	73.9	(77.3)	76.2	75.5	78.2
1962.....	76.8	75.2	(82.6)	79.1	77.7	82.9
1963.....	86.3	84.5	(93.0)	89.5	88.1	93.4
1964.....	91.8	90.5	(96.1)	94.3	93.2	96.9
1965.....	96.0	95.3	(98.5)	97.0	96.4	98.9
1966.....	102.1	100.8	(107.2)	103.3	102.0	107.1
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.7	106.1	(108.5)	107.2	106.5	109.4
1969.....	106.1	105.8	(106.6)	105.8	105.4	107.0
1970.....	110.9	111.2	(109.9)	110.6	110.7	110.2
1971.....	116.0	114.8	(119.5)	115.0	113.2	120.0
1972.....	128.8	126.2	(137.7)	130.1	127.4	137.7
1973 ^{4/}	124.2	124.2	(124.7)	125.5	125.6	125.2
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	4.1	4.3	(3.6)	4.0	4.3	3.3
1968-73....	4.0	3.9	(4.5)	4.2	4.1	4.4

^{1/} The output measures underlying the output per man-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 man-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 17. FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	83.6	(2/)	153.4	(2/)	(2/)	164.6	(2/)
1947.....	112.0	210.2	225.0	(163.1)	193.2	208.3	154.0
1948.....	102.3	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	87.1	177.1	184.5	(153.2)	174.8	185.9	145.9
1950.....	84.1	166.9	172.7	(148.3)	168.4	178.6	141.7
1951.....	86.2	172.2	178.9	(150.2)	169.6	179.9	143.0
1952.....	85.9	175.5	180.7	(158.3)	169.6	177.1	150.5
1953.....	83.3	157.7	165.2	(134.1)	152.7	162.1	128.4
1954.....	83.3	142.7	144.3	(137.5)	141.3	144.8	131.9
1955.....	85.5	140.7	141.2	(139.0)	140.6	143.0	134.2
1956.....	87.0	136.2	136.8	(133.7)	136.5	139.6	120.6
1957.....	91.4	131.7	132.0	(130.2)	132.2	134.6	125.5
1958.....	95.3	134.7	132.8	(140.1)	137.6	138.6	135.1
1959.....	95.7	140.1	140.1	(140.1)	139.0	140.6	135.2
1960.....	97.5	135.9	135.0	(138.3)	132.8	132.0	134.8
1961.....	98.8	132.4	133.7	(127.8)	129.6	130.8	126.4
1962.....	99.1	129.1	131.8	(120.0)	125.3	127.6	119.5
1963.....	97.8	113.3	115.7	(105.2)	109.3	111.0	104.7
1964.....	100.6	109.6	111.1	(104.7)	106.7	107.9	103.8
1965.....	98.2	102.3	103.0	(99.7)	101.2	101.9	99.3
1966.....	101.2	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.....	103.6	97.1	97.6	(95.5)	96.6	97.3	94.7
1969.....	103.3	97.4	97.6	(96.9)	97.6	98.0	96.5
1970.....	102.5	92.4	92.2	(93.3)	92.7	92.6	93.0
1971.....	101.0	87.1	88.0	(84.5)	87.8	89.2	84.2
1972.....	101.5	78.8	80.4	(73.7)	78.0	79.7	73.7
1973 ^{3/}	101.0	81.3	81.3	(81.0)	80.5	80.4	80.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	0.6	-3.3	-3.4	(-2.8)	-3.2	-3.4	-2.5
1968-73.....	-0.6	-4.4	-4.3	(-4.9)	-4.6	-4.5	-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 man-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 18. BAKERY PRODUCTS SIC 205
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	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.....	102.1	101.4	(103.5)	103.5	102.9	104.2
1969.....	103.1	102.2	(104.8)	103.2	101.9	105.2
1970.....	107.2	105.6	(110.2)	107.3	105.2	110.5
1971.....	110.7	110.7	(110.8)	110.6	110.2	111.2
1972.....	115.9	116.0	(115.8)	115.8	115.9	115.6
1973 ^{4/}	115.4	116.7	(113.2)	115.4	116.6	113.6
AVERAGE ANNUAL RATES (PERCENT)						
1947-73.....	2.4	2.7	(1.9)	2.2	2.6	1.7
1968-73.....	2.9	3.3	(2.2)	2.7	3.1	2.1

1/ The output measures underlying the output per man-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 man-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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	100.9	98.8	99.5	(97.5)	97.5	98.1	96.8
1969.....	103.4	100.3	101.2	(98.7)	100.2	101.5	98.3
1970.....	99.6	92.9	94.3	(90.4)	92.8	94.7	90.1
1971.....	99.2	89.6	89.6	(89.5)	89.7	90.0	89.2
1972.....	103.6	89.4	89.3	(89.5)	89.5	89.4	89.6
1973 ^{3/}	102.7	89.0	88.0	(90.7)	89.0	88.1	90.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	1.3	-1.1	-1.4	(-0.6)	-0.9	-1.2	-0.4
1968-73....	0.3	-2.5	-2.9	(-1.9)	-2.3	-2.7	-1.8

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 206
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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	103.7	(107.7)	105.1	104.4	108.5
1969.....	102.0	101.9	(102.6)	100.7	100.2	103.0
1970.....	111.1	111.1	(110.8)	109.7	109.4	111.3
1971.....	111.0	110.2	(115.2)	115.0	114.9	115.7
1972.....	117.9	117.9	(117.4)	119.1	119.6	117.3
1973 ^{4/}	114.6	114.4	(115.7)	119.1	119.9	116.1
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	4.2	4.3	(3.3)	4.1	4.3	3.0
1968-73....	2.6	2.7	(2.3)	3.4	3.7	2.2

^{1/} The output measures underlying the output per man-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 man-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 206
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	60.1	140.1	146.7	(104.7)	132.0	139.0	98.9
1948.....	54.4	(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.....	104.8	100.5	101.1	(97.3)	99.7	100.4	96.6
1969.....	103.0	101.0	101.1	(100.4)	102.3	102.8	100.0
1970.....	109.4	98.5	98.5	(98.7)	99.7	100.0	98.3
1971.....	109.8	98.9	99.6	(95.3)	95.5	95.6	94.9
1972.....	115.3	97.8	97.8	(98.2)	96.8	96.4	98.3
1973 ^{3/}	112.2	97.9	98.1	(97.0)	94.2	93.6	96.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	3.0	-1.1	-1.3	(-0.3)	-1.1	-1.3	(4/)
1968-73....	2.0	-0.6	-0.7	(-0.3)	-1.4	-1.7	-0.2

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

^{2/} Not available.

^{3/} Preliminary.

^{4/} Less than .05 percent.

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 2071
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	47.6	(3/)	(3/)	47.9	(3/)
1947.....	54.6	53.3	(63.2)	57.6	56.2	67.2
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	52.3	53.2	(47.9)	54.8	55.7	50.4
1950.....	51.3	54.5	(39.1)	53.3	56.5	41.1
1951.....	59.2	60.6	(52.8)	62.6	64.3	55.6
1952.....	58.5	60.8	(48.5)	62.6	65.4	51.1
1953.....	61.9	62.5	(58.9)	64.0	64.5	61.6
1954.....	61.9	63.1	(55.9)	63.4	64.5	58.3
1955.....	63.8	66.8	(51.4)	65.0	67.9	53.4
1956.....	64.5	68.6	(48.7)	66.5	70.6	50.7
1957.....	70.0	74.3	(53.4)	71.3	75.4	55.6
1958.....	73.2	75.7	(62.0)	74.2	76.4	64.5
1959.....	74.9	77.8	(62.1)	77.4	80.5	64.5
1960.....	78.3	81.5	(64.3)	80.8	84.4	66.0
1961.....	78.1	80.9	(66.0)	80.7	84.0	66.8
1962.....	79.6	82.5	(67.0)	82.3	86.0	67.4
1963.....	88.0	89.1	(82.3)	89.0	90.5	82.6
1964.....	89.7	90.8	(84.4)	90.5	91.6	85.1
1965.....	93.4	93.7	(92.1)	94.7	95.1	92.6
1966.....	97.2	97.9	(93.7)	97.2	97.8	93.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	101.6	103.0	(94.6)	102.5	104.0	95.4
1969.....	99.5	101.1	(92.0)	101.0	102.9	92.3
1970.....	99.9	103.0	(85.9)	100.3	103.5	86.3
1971.....	102.5	106.6	(84.4)	105.7	111.0	84.8
1972.....	108.5	112.4	(91.2)	110.4	114.9	91.2
1973 ^{4/}	111.7	116.3	(92.1)	112.7	117.6	92.5
AVERAGE ANNUAL RATES (PERCENT)						
1947-73.....	3.2	3.2	(3.2)	3.0	3.0	2.9
1968-73.....	2.2	2.8	(-0.5)	2.3	3.0	-0.6

^{1/} The output measures underlying the output per man-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 man-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 23. CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2071
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	42.0	(2/)	88.2	(2/)	(2/)	87.7	(2/)
1947.....	64.2	117.5	120.5	(101.6)	111.4	114.3	95.6
1948.....	64.2	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	61.8	118.1	116.1	(129.1)	112.8	110.9	122.6
1950.....	64.1	124.9	117.7	(163.9)	120.2	113.4	156.1
1951.....	62.2	105.1	102.7	(117.8)	99.3	96.8	111.9
1952.....	64.2	109.8	105.6	(132.4)	102.5	98.1	125.6
1953.....	64.4	104.1	103.1	(109.3)	100.7	99.9	104.5
1954.....	62.8	101.5	99.5	(112.4)	99.0	97.3	107.8
1955.....	65.7	103.0	98.4	(127.7)	101.0	96.7	123.0
1956.....	67.9	105.3	99.0	(139.5)	102.1	96.2	133.9
1957.....	70.7	101.0	95.2	(132.3)	99.1	93.8	127.2
1958.....	72.7	99.3	96.0	(117.2)	98.0	95.1	112.8
1959.....	73.8	98.5	94.8	(118.8)	95.3	91.7	114.4
1960.....	76.8	98.1	94.2	(119.5)	95.0	91.0	116.3
1961.....	77.8	99.6	96.2	(117.9)	96.4	92.6	116.4
1962.....	79.7	100.1	96.6	(118.9)	96.8	92.7	118.2
1963.....	83.5	94.9	93.7	(101.5)	93.8	92.3	101.1
1964.....	87.4	97.4	96.3	(103.6)	96.6	95.4	102.7
1965.....	91.0	97.4	97.1	(98.8)	96.1	95.7	98.3
1966.....	95.4	98.1	97.4	(101.8)	98.1	97.5	101.8
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	101.6	100.0	98.6	(107.4)	99.1	97.7	106.5
1969.....	100.9	101.4	99.8	(109.7)	99.9	98.1	109.3
1970.....	101.5	101.6	98.5	(118.1)	101.2	98.1	117.6
1971.....	99.7	97.3	93.5	(118.1)	94.3	89.8	117.6
1972.....	98.0	90.3	87.2	(107.4)	88.8	85.3	107.4
1973 ^{3/}	102.8	92.0	88.4	(111.6)	91.2	87.4	111.1
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	2.3	-0.7	-0.7	(-0.7)	-0.6	-0.6	-0.5
1968-73....	-0.1	-2.3	-2.4	(0.4)	-2.4	-3.0	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 man-hours.

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of Competitive Assessment and Business Policy, and the Bureau of the Census, U.S. Department of Commerce. Employment and hours based on data from the Bureau of the Census, 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 MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	33.0	(3/)	(3/)	34.0	(3/)
1947.....	42.0	38.6	(51.6)	47.7	44.8	54.7
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	46.3	45.3	(48.4)	49.5	48.7	50.9
1950.....	45.9	46.4	(44.9)	48.4	49.0	47.0
1951.....	46.7	46.5	(46.9)	49.5	49.4	49.2
1952.....	48.4	48.1	(49.1)	50.9	50.5	51.6
1953.....	48.1	48.1	(48.1)	50.2	50.2	50.1
1954.....	49.4	50.5	(47.3)	51.0	51.9	49.2
1955.....	51.4	51.9	(50.3)	52.8	53.0	52.1
1956.....	52.4	53.3	(50.5)	53.9	54.5	52.4
1957.....	54.1	55.4	(51.4)	55.1	55.9	53.4
1958.....	59.9	60.8	(57.8)	60.3	60.4	60.0
1959.....	62.7	62.9	(62.0)	63.3	62.8	64.3
1960.....	65.2	64.9	(65.5)	65.0	63.8	67.2
1961.....	68.3	68.2	(68.5)	68.0	67.2	69.3
1962.....	71.8	71.1	(73.1)	71.9	71.1	73.5
1963.....	78.9	77.9	(81.1)	79.0	77.7	81.4
1964.....	84.6	83.9	(86.0)	84.9	83.7	86.8
1965.....	89.0	88.7	(89.3)	89.6	89.6	89.6
1966.....	93.7	93.9	(92.8)	94.6	95.3	92.8
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.4	105.7	(107.7)	106.9	106.1	108.7
1969.....	113.7	113.3	(114.5)	112.6	111.5	115.1
1970.....	119.2	120.3	(117.1)	122.6	122.4	117.4
1971.....	124.1	127.7	(117.2)	126.3	128.0	117.8
1972.....	140.4	140.6	(140.4)	145.4	144.6	140.6
1973 ^{4/}	152.8	152.8	(152.6)	160.8	161.0	153.3
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	5.1	5.2	(4.9)	4.9	5.0	4.7
1968-73....	7.4	7.6	(7.0)	8.4	8.7	6.9

^{1/} The output measures underlying the output per man-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 man-hours.

^{3/} Not available.

^{4/} Preliminary.

Source: Output based on data from the Internal Revenue Service, 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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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.....	64.5	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.....	105.3	99.0	99.6	(97.8)	98.5	99.2	96.9
1969.....	109.8	96.6	96.9	(95.9)	97.5	98.5	95.4
1970.....	115.1	96.6	95.7	(98.3)	93.9	94.0	98.0
1971.....	119.0	95.9	93.2	(101.5)	94.2	93.0	101.0
1972.....	122.6	87.3	87.2	(87.3)	84.3	84.8	87.2
1973 <u>3/</u>	129.1	84.5	84.5	(84.6)	80.3	80.2	84.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	2.7	-2.3	-2.4	(-2.1)	-2.1	-2.1	-1.9
1968-73.....	4.0	-3.1	-3.3	(-2.7)	-4.1	-4.3	-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 difficulty for estimating nonproduction worker man-hours.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Internal Revenue Service, 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 MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967=100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u> , <u>2/</u>			OUTPUT PER EMPLOYEE <u>1/</u> , <u>2/</u>		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>3/</u>	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	82.4	81.9	(82.8)	84.3	82.1	85.8
1959.....	86.1	86.1	(86.2)	89.1	89.0	89.2
1960.....	82.9	83.6	(82.5)	84.8	85.4	84.5
1961.....	86.1	87.4	(85.4)	87.1	88.2	86.5
1962.....	92.0	94.1	(90.8)	92.1	94.2	90.8
1963.....	94.6	95.0	(94.5)	95.6	97.3	94.5
1964.....	96.2	97.9	(95.3)	96.9	99.4	95.3
1965.....	97.7	99.9	(96.3)	98.2	101.3	96.3
1966.....	100.0	99.0	(100.7)	100.8	100.8	100.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	109.2	110.9	(108.2)	108.3	108.5	108.2
1969.....	111.9	115.8	(109.7)	110.5	112.2	109.7
1970.....	118.8	125.4	(115.0)	117.5	121.5	115.0
1971.....	127.4	136.6	(122.1)	125.9	132.6	122.1
1972.....	133.3	139.1	(129.8)	131.4	133.9	129.8
1973 <u>4/</u>	141.5	147.5	(138.0)	139.3	141.4	138.0
AVERAGE ANNUAL RATES (PERCENT)						
1958-73.....	3.5	3.9	(3.3)	3.2	3.4	3.1
1968-73.....	5.5	6.1	(5.2)	5.4	5.7	5.2

1/ The output measures underlying the output per man-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 man-hours.

4/ Preliminary.

Source: Output based on data from the Sales Survey 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, MAN-HOURS AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT <u>1/</u>	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	65.2	79.1	79.6	(78.7)	77.3	79.4	76.0
1959.....	70.5	81.9	81.9	(81.8)	79.1	79.2	79.0
1960.....	69.4	83.7	83.0	(84.1)	81.8	81.3	82.1
1961.....	71.5	83.0	81.8	(83.7)	82.1	81.1	82.7
1962.....	77.0	83.7	81.8	(84.8)	83.6	81.7	84.8
1963.....	81.8	86.5	86.1	(86.6)	85.6	84.1	86.6
1964.....	86.6	90.0	88.5	(90.9)	89.4	87.1	90.9
1965.....	90.6	92.7	90.7	(94.1)	92.3	89.4	94.1
1966.....	98.2	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.....	108.7	99.5	98.0	(100.5)	100.4	100.2	100.5
1969.....	113.5	101.4	98.0	(103.5)	102.7	101.2	103.5
1970.....	119.8	100.8	95.5	(104.2)	102.0	98.6	104.2
1971.....	126.9	99.6	92.9	(103.9)	100.8	95.7	103.9
1972.....	131.0	98.3	94.2	(100.9)	99.7	97.8	100.9
1973 <u>3/</u>	139.4	98.5	94.5	(101.0)	100.1	98.6	101.0
AVERAGE ANNUAL RATES (PERCENT)							
1958-73.....	5.3	1.7	1.4	(2.0)	2.0	1.8	2.2
1968-73.....	5.1	- 0.4	- 0.9	(- 0.2)	- 0.3	- 0.6	- 0.2

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 man-hours.

3/ Preliminary.

Source: Output based on data from the Sales Survey 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 211,212,213
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	103.0	103.2	(101.0)	100.5	100.4	101.9
1969.....	101.0	102.0	(93.6)	99.4	100.1	94.1
1970.....	102.9	103.4	(99.7)	103.7	104.1	100.2
1971.....	108.3	109.4	(100.5)	107.8	108.6	100.9
1972.....	108.1	110.2	(93.3)	106.8	108.7	93.2
1973 ^{4/}	107.0	107.7	(101.1)	108.2	109.1	101.6
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	3.1	3.4	(0.9)	3.2	3.4	0.9
1968-73....	1.3	1.4	(5/)	1.8	2.0	-0.1

^{1/} The output measures underlying the output per man-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 man-hours.

^{3/} Not available.

^{4/} Preliminary.

^{5/} Less than .05 percent.

Source: Output based on data from the Internal Revenue Service, 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 211,212,213
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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.....	101.9	98.9	98.7	(100.9)	101.4	101.5	100.0
1969.....	98.4	97.4	96.5	(105.1)	99.0	98.3	104.6
1970.....	101.7	98.8	98.4	(102.0)	98.1	97.7	101.5
1971.....	99.4	91.8	90.9	(98.9)	92.2	91.5	98.5
1972.....	99.0	91.6	89.8	(106.1)	92.7	91.1	106.2
1973 <u>3/</u>	103.1	96.4	95.7	(102.0)	95.3	94.5	101.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	1.4	-1.7	-1.9	(0.5)	-1.7	-1.9	0.5
1968-73....	0.2	-1.1	-1.3	(0.1)	-1.6	-1.8	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 man-hours.

2/ Not available.

3/ Preliminary.

Source: Output based on data from the Internal Revenue Service, 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 211,213
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	102.6	103.0	(99.6)	98.5	98.2	100.5
1969.....	97.7	98.9	(89.3)	94.9	95.7	89.7
1970.....	98.2	98.8	(94.6)	98.5	99.0	94.9
1971.....	102.9	104.5	(91.7)	101.5	102.9	92.2
1972.....	102.4	104.4	(88.2)	100.2	102.0	88.4
1973 ^{4/}	101.1	101.6	(98.1)	101.8	102.3	98.4
AVERAGE ANNUAL RATES (PERCENT)						
1947-73.....	1.3	1.5	(-0.2)	1.2	1.4	-0.3
1968-73.....	0.3	0.4	(-0.4)	1.0	1.2	-0.5

^{1/} The output measures underlying the output per man-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 man-hours.

^{3/} Not available.

^{4/} Preliminary.

Source: Output based on data from the Internal Revenue Service, 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 211.213
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	100.5	98.0	97.6	(100.9)	102.0	102.3	100.0
1969.....	97.3	99.6	98.4	(109.0)	102.5	101.7	108.5
1970.....	101.0	102.8	102.2	(106.8)	102.5	102.0	106.4
1971.....	100.0	97.2	95.7	(109.0)	98.5	97.2	108.5
1972.....	103.4	101.0	99.0	(117.2)	103.2	101.4	117.0
1973 ^{3/}	111.0	109.8	109.3	(113.2)	109.0	108.5	112.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	1.7	0.4	0.2	(1.9)	0.5	0.3	2.0
1968-73....	1.9	1.6	1.5	(2.4)	0.9	0.7	2.5

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Internal Revenue Service, 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 212
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	103.8	103.8	(103.9)	104.7	104.7	104.7
1969.....	109.0	109.3	(106.5)	110.3	110.6	107.0
1970.....	114.9	114.7	(115.9)	116.3	116.3	116.4
1971.....	122.5	121.3	(135.2)	124.2	123.0	135.7
1972.....	123.8	125.2	(113.1)	124.8	126.1	113.1
1973 ^{4/}	122.6	123.7	(113.8)	124.4	125.6	114.3
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	5.7	5.9	(3.2)	5.9	6.1	3.3
1968-73....	3.7	3.9	(2.3)	3.8	4.0	2.2

^{1/} The output measures underlying the output per man-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 man-hours.

^{3/} Not available.

^{4/} Preliminary.

Source: Output based on data from the Internal Revenue Service, 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 212
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	104.7	100.9	100.9	(100.8)	100.0	100.0	100.0
1969.....	101.0	92.7	92.4	(94.8)	91.6	91.3	94.4
1970.....	103.5	90.1	90.2	(89.3)	89.0	89.0	88.9
1971.....	98.0	80.0	80.8	(72.5)	78.9	79.7	72.2
1972.....	88.0	71.1	70.3	(77.8)	70.5	69.8	77.8
1973 ^{3/}	82.5	67.3	66.7	(72.5)	66.3	65.7	72.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	0.7	-4.8	-5.0	(-2.4)	-4.9	-5.1	-2.5
1968-73....	-4.6	-8.1	-8.2	(-6.8)	-8.1	-8.3	-6.7

^{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 man-hours.

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Internal Revenue Service, 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 MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	92.9	93.1	(90.5)	93.0	93.3	91.3
1969.....	106.0	106.4	(101.0)	106.4	106.9	101.1
1970.....	124.3	126.2	(109.3)	118.6	119.6	109.4
1971.....	116.5	120.0	(90.1)	111.6	114.3	90.2
1972.....	132.1	136.1	(102.3)	131.0	134.7	102.1
1973 ^{4/}	133.8	139.2	(97.1)	130.0	134.4	97.1
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	5.4	5.6	(3.8)	5.4	5.5	3.7
1968-73....	7.2	8.0	(0.6)	6.6	7.3	0.4

^{1/} The output measures underlying the output per man-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 man-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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	97.6	105.1	104.8	(107.8)	104.9	104.6	106.9
1969.....	117.4	110.8	110.3	(116.2)	110.3	109.8	116.1
1970.....	125.7	101.1	99.6	(115.0)	106.0	105.1	114.9
1971.....	103.6	88.9	86.3	(115.0)	92.8	90.6	114.9
1972.....	111.5	84.4	81.9	(109.0)	85.1	82.8	109.2
1973 ^{3/}	109.3	81.7	78.5	(112.6)	84.1	81.3	112.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	3.4	-1.9	-2.0	(-0.4)	-1.8	-2.0	-0.3
1968-73....	0.6	-6.1	-6.8	(0.1)	-5.6	-6.2	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 man-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 261,2,3,6
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	48.5	(3/)	(3/)	45.8	(3/)
1947.....	47.9	44.4	(78.9)	50.3	46.0	81.2
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	50.1	47.4	(70.1)	50.3	46.9	71.4
1950.....	56.4	53.0	(83.6)	58.5	54.4	84.9
1951.....	58.8	55.6	(82.1)	60.7	57.0	83.8
1952.....	57.6	54.9	(76.0)	58.5	55.2	77.6
1953.....	57.6	54.9	(75.2)	58.7	55.6	76.3
1954.....	59.7	57.4	(75.1)	60.0	57.1	75.9
1955.....	63.9	61.0	(83.1)	65.6	62.3	83.6
1956.....	66.7	64.3	(81.6)	68.1	65.3	82.2
1957.....	66.6	64.9	(77.0)	66.4	64.1	77.6
1958.....	68.3	66.7	(77.7)	67.7	65.4	78.3
1959.....	72.4	70.9	(81.1)	73.2	71.5	81.6
1960.....	74.8	73.9	(79.8)	74.7	73.5	80.2
1961.....	79.7	79.0	(83.1)	79.4	78.5	83.3
1962.....	82.8	82.0	(87.2)	82.7	81.6	87.7
1963.....	87.6	86.9	(91.6)	87.7	86.7	92.0
1964.....	92.2	91.3	(97.5)	93.1	91.9	98.3
1965.....	96.9	96.4	(99.5)	97.4	96.7	100.0
1966.....	101.6	101.2	(104.2)	102.9	102.5	104.2
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	106.7	106.2	(109.0)	107.6	106.9	110.0
1969.....	110.6	110.2	(112.7)	111.7	111.3	113.2
1970.....	114.9	115.8	(111.4)	113.3	113.7	111.9
1971.....	121.4	123.1	(113.8)	120.0	121.4	114.3
1972.....	131.2	132.2	(126.7)	130.8	131.9	126.7
1973 <u>4/</u>	134.3	135.0	(131.2)	134.6	135.3	131.7
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	4.0	4.3	(2.1)	3.9	4.3	2.0
1968-73....	5.0	5.3	(3.8)	4.8	5.1	3.7

1/ The output measures underlying the output per man-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 man-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 37. PAPER, PAPERBOARD AND PULP MILLS SIC 261,2,3,6
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS 1/	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	26.9	(2/)	55.5	(2/)	(2/)	58.7	(2/)
1947.....	41.8	87.2	94.1	(53.0)	83.1	90.8	51.5
1948.....	43.5	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	40.5	80.8	85.4	(57.8)	80.5	86.4	56.7
1950.....	48.4	85.8	91.3	(57.9)	82.8	89.0	57.0
1951.....	52.7	89.6	94.7	(64.2)	86.8	92.5	62.9
1952.....	50.1	87.0	91.2	(65.9)	85.6	90.7	64.6
1953.....	53.5	92.9	97.4	(71.1)	91.2	96.3	70.1
1954.....	54.5	91.3	95.0	(72.6)	90.8	95.4	71.8
1955.....	61.1	95.6	100.1	(73.5)	93.2	98.0	73.1
1956.....	64.8	97.2	100.8	(79.4)	95.2	99.2	78.8
1957.....	63.1	94.7	97.3	(81.9)	95.1	98.4	81.3
1958.....	63.4	92.8	95.0	(81.6)	93.7	96.9	81.0
1959.....	70.6	97.5	99.6	(87.0)	96.4	98.8	86.5
1960.....	72.2	96.5	97.7	(90.5)	96.6	98.2	90.0
1961.....	74.5	93.5	94.3	(89.6)	93.8	94.9	89.4
1962.....	78.4	94.7	95.6	(89.9)	94.8	96.1	89.4
1963.....	82.6	94.3	95.1	(90.2)	94.2	95.3	89.8
1964.....	87.9	95.3	96.3	(90.2)	94.4	95.6	89.4
1965.....	93.1	96.1	96.6	(93.6)	95.6	96.3	93.1
1966.....	100.3	98.7	99.1	(96.3)	97.5	97.9	96.3
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	108.0	101.2	101.7	(99.1)	100.4	101.0	98.2
1969.....	113.7	102.8	103.2	(100.9)	101.8	102.2	100.4
1970.....	113.1	98.4	97.7	(101.5)	99.8	99.5	101.1
1971.....	115.1	94.8	93.5	(101.1)	95.9	94.8	100.7
1972.....	123.7	94.3	93.6	(97.6)	94.6	93.8	97.6
1973 _{3/}	128.8	95.9	95.4	(98.2)	95.7	95.2	97.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	4.5	0.5	0.2	(2.4)	0.6	0.3	2.5
1968-73....	3.3	-1.6	-1.9	(-0.4)	-1.4	-1.7	-0.3

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 38. CORRUGATED AND SOLID FIBER BOXES SIC 2653
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	102.7	102.4	(103.9)	103.6	103.2	104.8
1969.....	104.1	104.2	(104.0)	104.9	105.1	104.6
1970.....	108.8	110.8	(102.7)	105.7	106.4	103.2
1971.....	115.2	117.9	(106.7)	111.8	113.5	107.2
1972.....	119.3	120.4	(115.8)	118.0	118.8	115.9
1973 ^{3/}	124.2	125.5	(120.1)	122.1	122.6	120.7
AVERAGE ANNUAL RATES (PERCENT)						
1958-73.....	3.4	3.6	(2.7)	3.2	3.4	2.7
1968-73.....	4.1	4.4	(3.1)	3.6	3.8	3.1

^{1/} The output measures underlying the output per man-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 man-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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	107.4	104.6	104.9	(103.4)	103.7	104.1	102.5
1969.....	114.1	109.6	109.5	(109.7)	108.8	108.6	109.1
1970.....	113.9	104.7	102.8	(110.9)	107.8	107.0	110.4
1971.....	118.3	102.7	100.3	(110.9)	105.8	104.2	110.4
1972.....	129.8	108.8	107.8	(112.1)	110.0	109.3	112.0
1973 ^{2/}	140.7	113.3	112.1	(117.2)	115.2	114.8	116.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-73....	6.2	2.7	2.5	(3.3)	2.9	2.7	3.4
1968-73....	5.2	1.0	0.7	(2.0)	1.6	1.4	2.1

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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. MAN-MADE FIBERS SIC 2823,2824
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	115.6	112.9	(124.6)	117.5	114.8	125.9
1969.....	116.7	114.5	(124.2)	118.1	115.9	124.9
1970.....	119.3	119.1	(120.0)	118.9	118.2	120.8
1971.....	140.4	137.8	(149.0)	139.8	136.7	149.7
1972.....	158.6	154.0	(174.9)	160.3	155.7	174.9
1973 ^{3/}	171.0	165.2	(191.1)	172.4	166.4	192.4
AVERAGE ANNUAL RATES (PERCENT)						
1957-73....	5.7	5.6	(6.2)	5.8	5.7	6.1
1968-73....	9.1	8.8	(10.1)	8.9	8.6	10.0

^{1/} The output measures underlying the output per man-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 man-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. MAN-MADE FIBERS SIC 2823,2824
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	70.4	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	109.9	112.5	(101.9)	108.1	110.6	100.9
1969.....	131.9	113.0	115.2	(106.2)	111.7	113.8	105.6
1970.....	129.7	108.7	108.9	(100.1)	109.1	109.7	107.4
1971.....	149.7	106.6	108.6	(100.5)	107.1	109.5	100.0
1972.....	174.9	110.3	113.6	(100.0)	109.1	112.3	100.0
1973 ^{2/}	200.7	117.4	121.5	(105.0)	116.4	120.6	104.3
AVERAGE ANNUAL RATES (PERCENT)							
1957-73....	9.8	3.8	4.0	(3.4)	3.8	3.9	3.4
1968-73....	9.8	0.7	1.0	(-0.3)	0.8	1.1	-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 man-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 MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}		OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	86.4	86.8	89.0	89.2	88.5
1964.....	86.9	85.9	89.9	88.8	91.2
1965.....	93.0	92.8	95.3	94.8	95.7
1966.....	97.6	96.9	101.2	100.5	102.2
1967.....	100.0	100.0	100.0	100.0	100.0
1968.....	105.6	106.5	108.1	108.9	107.0
1969.....	111.4	110.3	113.6	112.6	114.9
1970.....	113.3	115.0	117.2	118.9	115.3
1971.....	120.8	131.2	125.7	134.6	116.6
1972.....	134.7	142.9	138.0	146.2	129.4
1973 ^{2/}	136.6	143.4	142.5	149.9	134.7
AVERAGE ANNUAL RATES (PERCENT)					
1963-73....	4.9	5.6	5.0	5.7	4.2
1968-73....	5.6	7.1	6.0	7.4	4.4

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

^{2/} Preliminary.

Source: Output based on data from the Bureau of the Census, 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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS		EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1963.....	74.2	85.9	85.5	83.4	83.2	83.8
1964.....	79.5	91.5	92.5	88.4	89.5	87.2
1965.....	88.3	94.9	95.2	92.7	93.1	92.3
1966.....	97.6	100.0	100.7	96.4	97.1	95.5
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	108.4	102.7	101.8	100.3	99.5	101.3
1969.....	120.1	107.8	108.9	105.7	106.7	104.5
1970.....	128.6	113.5	111.8	109.7	108.2	111.5
1971.....	140.0	115.9	106.7	111.4	104.0	120.1
1972.....	149.9	111.3	104.9	108.6	102.5	115.8
1973 <u>1</u> /.....	158.0	115.7	110.2	110.9	105.4	117.3
AVERAGE ANNUAL RATES (PERCENT)						
1963-73....	8.0	3.0	2.2	2.9	2.1	3.7
1968-73....	7.8	2.1	0.7	1.7	0.4	3.2

1/ 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 285
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	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.....	109.1	109.1	(109.1)	109.4	109.0	110.0
1969.....	111.7	110.4	(113.4)	111.4	109.4	113.9
1970.....	99.0	98.4	(99.7)	98.4	97.1	100.2
1971.....	110.4	112.1	(107.9)	108.6	108.7	108.4
1972.....	116.3	116.4	(116.3)	116.7	117.0	116.3
1973 <u>3/</u>	111.8	111.4	(112.5)	112.2	111.4	113.0
AVERAGE ANNUAL RATES (PERCENT)						
1958-73.....	2.5	2.7	(2.3)	2.4	2.6	2.2
1968-73.....	1.0	1.1	(0.9)	1.0	1.2	0.8

1/ The output measures underlying the output per man-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 man-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 285
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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.....	107.8	98.8	98.8	(98.8)	98.5	98.9	98.0
1969.....	112.4	100.6	101.8	(99.1)	100.9	102.7	98.7
1970.....	106.2	107.3	107.9	(106.5)	107.9	109.4	106.0
1971.....	111.7	101.2	99.6	(103.5)	102.9	102.8	103.0
1972.....	118.3	101.7	101.6	(101.7)	101.4	101.1	101.7
1973 <u>2/</u>	115.3	103.1	103.5	(102.5)	102.8	103.5	102.0
AVERAGE ANNUAL RATES (PERCENT)							
1958-73.....	3.7	1.2	1.0	(1.4)	1.2	1.1	1.4
1968-73.....	1.6	0.5	0.4	(0.7)	0.5	0.3	0.7

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 291
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	103.0	103.7	(101.2)	103.8	104.5	102.3
1969.....	107.0	110.6	(98.6)	110.7	113.1	105.1
1970.....	107.6	108.6	(104.8)	108.4	109.7	105.3
1971.....	113.2	115.3	(108.0)	113.1	115.1	108.5
1972.....	125.7	126.4	(124.1)	125.5	126.0	124.3
1973 ^{4/}	137.0	135.5	(141.0)	136.7	134.7	141.9
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	5.8	6.2	(4.6)	5.7	6.1	4.6
1968-73....	5.8	5.3	(7.0)	5.3	4.8	6.4

^{1/} The output measures underlying the output per man-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 man-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 291
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	104.2	101.2	100.5	(103.0)	100.4	99.7	101.9
1969.....	106.8	99.8	96.6	(108.3)	96.5	94.4	101.6
1970.....	109.4	101.7	100.7	(104.4)	100.9	99.7	103.9
1971.....	113.1	99.9	98.1	(104.7)	100.0	98.3	104.2
1972.....	118.3	94.1	93.6	(95.3)	94.3	93.9	95.2
1973 ^{3/}	125.9	91.9	92.9	(89.3)	92.1	93.5	88.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	3.7	-2.0	-2.4	(-0.9)	-1.9	-2.3	-0.8
1968-73....	3.7	-1.9	-1.5	(-3.1)	-1.4	-1.0	-2.5

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 301
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	106.8	105.0	(113.7)	114.0	113.7	114.7
1969.....	102.6	100.3	(111.3)	110.4	110.0	111.9
1970.....	104.6	105.4	(102.0)	106.1	107.2	102.6
1971.....	111.5	111.3	(112.2)	113.7	114.1	112.7
1972.....	114.3	112.3	(121.5)	120.1	119.8	121.5
1973 ^{4/}	109.0	105.4	(123.7)	116.5	114.2	124.4
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	3.9	4.1	(3.1)	4.0	4.3	2.9
1968-73....	1.4	1.2	(2.3)	1.2	1.0	2.2

^{1/} The output measures underlying the output per man-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 man-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 301
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	98.2
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	98.5
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	88.8
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.....	120.7	113.0	115.0	(106.2)	105.9	106.2	105.2
1969.....	122.4	119.3	122.0	(110.0)	110.9	111.3	109.4
1970.....	115.1	110.0	109.2	(112.8)	108.5	107.4	112.2
1971.....	128.6	115.3	115.5	(114.6)	113.1	112.7	114.1
1972.....	139.2	121.8	123.9	(114.6)	115.9	116.2	114.6
1973 ^{3/}	143.7	131.8	136.3	(116.2)	123.4	125.8	115.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	4.1	0.2	(4/)	(1.0)	0.1	-0.2	1.2
1968-73....	4.0	2.5	2.8	(1.7)	2.7	3.0	1.8

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

^{2/} Not available.

^{3/} Preliminary.

^{4/} Less than .05 percent.

Source: Output based on data from the Rubber Manufacturers Association, and the Bureau of the Census, 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 MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	103.5	103.6	(103.4)	104.4	104.4	104.3
1969.....	96.7	97.4	(91.0)	95.5	96.0	91.3
1970.....	104.1	105.3	(94.1)	102.9	103.8	94.4
1971.....	106.1	108.0	(92.0)	104.9	106.4	92.4
1972.....	104.8	106.5	(91.3)	105.8	107.7	91.3
1973 ^{5/}	100.7	102.5	(86.0)	101.0	102.8	86.4
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	1.3	1.4	(0.9)	1.5	1.5	0.8
1968-73....	0.4	0.7	(-2.6)	0.5	0.8	-2.7

^{1/} The output measures underlying the output per man-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 man-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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	102.8	102.7	(102.9)	101.9	101.9	102.0
1969.....	95.0	98.2	97.5	(104.4)	99.5	99.0	104.0
1970.....	93.5	89.8	88.8	(99.4)	90.9	90.1	99.0
1971.....	88.2	83.1	81.7	(95.9)	84.1	82.9	95.5
1972.....	87.2	83.2	81.9	(95.5)	82.4	81.0	95.5
1973 ^{4/}	80.8	80.2	78.8	(93.9)	80.0	78.6	93.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	0.4	-1.0	-1.0	(-0.5)	-1.1	-1.2	-0.4
1968-73.....	-4.7	-5.1	-5.4	(-2.2)	-5.2	-5.5	-2.1

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	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.....	105.1	106.5	(94.7)	102.4	103.4	95.5
1969.....	108.5	109.1	(103.2)	106.1	106.4	103.7
1970.....	104.6	105.0	(101.0)	103.6	103.8	101.8
1971.....	107.6	108.5	(100.1)	105.6	106.2	100.5
1972.....	107.2	108.0	(100.7)	106.0	106.7	100.7
1973 ^{4/}	108.7	109.8	(99.7)	107.0	107.9	100.1
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	1.7	1.8	(1.1)	1.6	1.6	1.0
1968-73....	0.4	0.4	(0.5)	0.7	0.7	0.4

1/ The output measures underlying the output per man-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 man-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, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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.....	98.1	93.3	92.1	(103.6)	95.8	94.9	102.7
1969.....	113.7	104.8	104.2	(110.2)	107.2	106.9	109.6
1970.....	115.8	110.7	110.3	(114.6)	111.8	111.6	113.7
1971.....	114.3	106.2	105.3	(114.2)	108.2	107.6	113.7
1972.....	115.9	108.1	107.3	(115.1)	109.3	108.6	115.1
1973 <u>3/</u>	119.3	109.8	108.7	(119.7)	111.5	110.6	119.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	3.8	2.1	2.0	(2.7)	2.2	2.1	2.8
1968-73.....	3.0	2.5	2.5	(2.5)	2.3	2.2	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 man-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 324
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(3/)	39.8	(3/)	41.4	39.3	52.3
1947.....	41.2	37.8	(68.6)	44.7	41.0	70.4
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	46.8	43.3	(72.3)	49.6	45.9	73.8
1950.....	47.3	43.6	(74.7)	49.8	46.0	75.9
1951.....	48.7	45.3	(72.7)	51.1	47.5	74.0
1952.....	49.3	45.9	(73.7)	52.2	48.6	75.1
1953.....	54.4	50.7	(78.8)	57.7	54.1	79.7
1954.....	60.5	56.7	(85.2)	63.1	59.3	86.0
1955.....	63.9	59.5	(94.4)	66.8	62.4	94.7
1956.....	67.1	62.5	(99.7)	69.3	64.5	100.3
1957.....	65.2	61.2	(91.8)	64.5	60.1	92.4
1958.....	67.4	64.2	(85.7)	67.7	64.4	86.1
1959.....	72.2	68.2	(97.4)	73.7	69.6	97.7
1960.....	71.5	68.2	(91.0)	72.1	68.6	91.3
1961.....	79.2	76.0	(96.4)	78.9	75.6	96.3
1962.....	83.9	80.9	(100.4)	83.9	80.8	100.7
1963.....	88.8	86.8	(99.6)	89.3	87.3	99.7
1964.....	92.1	91.4	(95.3)	93.9	93.5	95.8
1965.....	94.9	94.4	(97.4)	95.4	94.8	97.5
1966.....	99.6	99.4	(101.0)	101.3	101.5	100.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	110.7	110.2	(115.2)	112.9	112.3	115.7
1969.....	112.6	111.9	(118.7)	115.6	114.9	119.1
1970.....	109.0	109.3	(110.8)	110.8	110.7	111.3
1971.....	122.1	121.9	(125.7)	124.7	124.4	125.8
1972.....	123.9	122.4	(134.0)	126.4	124.9	132.9
1973 ^{4/}	128.0	126.2	(139.5)	132.0	130.1	139.7
AVERAGE ANNUAL RATES (PERCENT)						
1947-73.....	4.5	4.9	(2.3)	4.3	4.7	2.3
1968-73.....	3.3	3.1	(4.2)	3.4	3.2	4.1

^{1/} The output measures underlying the output per man-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 man-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 55. HYDRAULIC CEMENT SIC 324
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	35.9	(2/)	90.2	(2/)	86.8	91.3	68.6
1947.....	55.3	134.1	146.4	(80.6)	123.7	134.8	78.5
1948.....	60.6	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	60.9	130.2	140.6	(84.2)	122.9	132.7	82.5
1950.....	65.6	138.8	150.5	(87.8)	131.6	142.6	86.4
1951.....	69.8	143.3	154.0	(96.0)	136.5	146.8	94.3
1952.....	70.5	142.9	153.7	(95.6)	135.1	145.2	93.9
1953.....	74.5	137.0	146.8	(94.6)	129.1	137.8	93.5
1954.....	77.0	127.2	135.7	(90.4)	122.0	129.8	89.5
1955.....	83.6	130.9	140.5	(88.6)	125.1	134.0	88.3
1956.....	88.1	131.2	141.0	(88.4)	127.1	136.6	87.8
1957.....	82.2	126.1	134.3	(89.5)	127.5	136.8	89.0
1958.....	85.4	126.8	133.0	(99.6)	126.1	132.7	99.2
1959.....	93.0	128.8	136.3	(95.5)	126.2	133.7	95.2
1960.....	87.1	121.9	127.7	(95.7)	120.8	126.9	95.4
1961.....	88.1	111.3	115.9	(91.4)	111.6	116.5	91.5
1962.....	91.5	109.0	113.1	(91.1)	109.0	113.3	98.9
1963.....	95.6	107.6	110.2	(96.0)	107.0	109.5	95.9
1964.....	99.8	108.4	109.2	(104.7)	106.3	106.7	104.2
1965.....	101.0	106.4	107.0	(103.7)	105.9	106.5	103.6
1966.....	104.2	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.....	106.7	96.4	96.8	(92.6)	94.5	95.0	92.2
1969.....	107.9	95.8	96.4	(90.9)	93.3	93.9	90.6
1970.....	102.6	94.1	93.9	(92.6)	92.6	92.7	92.2
1971.....	110.1	90.2	90.3	(87.6)	88.3	88.5	87.5
1972.....	116.3	93.9	95.0	(86.8)	92.0	93.1	87.5
1973 ^{3/}	122.2	95.5	96.8	(87.6)	92.6	93.9	87.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	2.6	-1.8	-2.2	(0.2)	-1.7	-2.0	0.3
1968-73....	2.8	-0.4	-0.2	(-1.3)	-0.5	-0.4	-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 man-hours.

^{2/} Not available.

^{3/} 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. CONCRETE PRODUCTS SIC 3271,3272
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	44.6	39.6	(92.5)	46.9	40.8	95.6
1948.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
1949.....	50.7	48.0	(67.2)	52.7	49.3	68.7
1950.....	57.1	55.5	(66.4)	59.3	57.1	67.7
1951.....	60.1	58.3	(70.3)	64.5	62.5	71.9
1952.....	64.6	62.1	(78.7)	68.1	65.1	80.5
1953.....	66.2	64.0	(78.8)	67.5	64.5	80.0
1954.....	67.9	68.4	(68.0)	68.3	68.2	69.0
1955.....	71.9	71.9	(74.5)	71.9	71.0	75.0
1956.....	78.5	78.6	(80.8)	79.9	79.4	81.6
1957.....	76.7	77.8	(75.7)	77.3	77.5	76.6
1958.....	75.5	77.4	(71.5)	74.6	75.3	72.2
1959.....	76.8	76.0	(82.6)	78.3	76.9	83.3
1960.....	73.6	72.7	(80.3)	77.3	76.4	80.8
1961.....	75.1	74.5	(80.8)	79.1	78.7	80.2
1962.....	76.6	75.8	(82.9)	81.3	80.7	83.4
1963.....	84.6	85.9	(82.8)	86.9	88.2	83.2
1964.....	89.1	91.0	(85.0)	91.9	94.0	85.8
1965.....	91.9	93.5	(89.4)	93.2	94.2	89.7
1966.....	96.7	100.2	(88.8)	96.2	98.8	88.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	109.4	109.7	(108.5)	110.2	110.4	109.4
1969.....	110.1	110.3	(109.6)	112.0	112.6	110.2
1970.....	109.6	109.0	(111.7)	110.8	110.4	112.1
1971.....	116.7	117.8	(112.7)	115.1	115.7	113.3
1972 ^{4/}	128.0	131.0	(117.8)	127.9	131.3	117.8
AVERAGE ANNUAL RATES (PERCENT)						
1947-72.....	3.5	3.8	(1.9)	3.3	3.7	1.8
1968-72.....	3.8	4.3	(2.0)	3.3	3.8	1.8

^{1/} The output measures underlying the output per man-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 man-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 57. CONCRETE PRODUCTS SIC 3271,3272
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1947.....	28.2	63.2	71.3	(30.5)	60.1	69.2	29.5
1948.....	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	36.4	71.8	75.9	(54.2)	69.1	73.9	53.0
1950.....	44.3	81.1	83.4	(69.7)	78.1	81.1	68.4
1951.....	53.9	89.7	92.4	(76.7)	83.6	86.2	75.0
1952.....	58.1	90.0	93.5	(73.8)	85.3	89.2	72.2
1953.....	51.3	77.5	80.1	(65.1)	76.0	79.5	64.1
1954.....	53.0	78.1	77.5	(77.9)	77.6	77.7	76.8
1955.....	61.2	85.1	85.1	(82.2)	85.1	86.2	81.6
1956.....	71.8	91.5	91.3	(88.9)	89.9	90.4	88.0
1957.....	69.3	90.3	89.1	(91.5)	89.7	89.4	90.5
1958.....	66.1	87.5	85.4	(92.4)	88.6	87.8	91.5
1959.....	71.1	92.6	93.5	(86.1)	90.8	92.4	85.4
1960.....	72.0	97.8	99.1	(89.7)	93.1	94.3	89.1
1961.....	72.2	96.1	96.9	(90.3)	91.3	91.7	90.0
1962.....	74.7	97.5	98.6	(90.1)	91.9	92.6	89.6
1963.....	84.9	100.4	98.8	(102.5)	97.7	96.3	102.0
1964.....	91.9	103.2	101.0	(108.1)	100.0	97.8	107.1
1965.....	99.4	108.2	106.3	(111.2)	106.6	105.5	110.8
1966.....	105.0	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.....	110.1	100.6	100.4	(101.5)	99.9	99.7	100.6
1969.....	114.5	104.0	103.8	(104.5)	102.2	101.7	103.9
1970.....	120.3	109.8	110.4	(107.7)	108.6	109.0	107.3
1971.....	127.8	109.5	108.5	(113.4)	111.0	110.5	112.8
1972 ^{3/}	146.1	114.1	111.5	(124.0)	114.2	111.3	124.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-72....	5.3	1.8	1.5	(3.4)	1.9	1.6	3.5
1968-72....	7.0	3.1	2.6	(4.9)	3.6	3.1	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 man-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 58. READY-MIXED CONCRETE SIC 3273
INDEXES OF OUTPUT PER MAN-HOUR, OUTPUT PER EMPLOYEE, OUTPUT,
EMPLOYEES, AND MAN-HOURS
(1967=100)

YEAR	OUTPUT PER EMPLOYEE MAN-HOUR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEE MAN-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.....	103.1	102.3	100.4	97.4	98.1
1969.....	98.8	101.3	101.8	103.0	100.5
1970.....	96.1	94.2	96.7	100.6	102.6
1971.....	102.3	96.7	99.6	97.4	103.0
1972 <u>1</u> /.....	103.5	102.8	115.0	111.1	111.9
AVERAGE ANNUAL RATES (PERCENT)					
1958-72.....	1.9	1.8	3.5	1.5	1.7
1968-72.....	0.4	- 0.4	2.5	2.1	2.9

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

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	104.2	104.6	(102.6)	105.8	106.5	102.6
1969.....	104.8	104.8	(104.7)	107.0	107.6	104.7
1970.....	101.9	102.8	(98.7)	101.5	102.1	98.7
1971.....	105.6	107.2	(99.5)	104.9	106.3	99.6
1972.....	111.8	111.9	(110.9)	113.5	114.3	110.9
1973 ^{3/}	123.9	122.8	(129.0)	127.6	127.4	129.0
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	1.8	2.2	(^{4/})	2.0	2.4	(^{4/})
1968-73....	3.2	3.0	(3.9)	3.3	3.2	3.9

^{1/} The output measures underlying the output per man-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 man-hours.

^{3/} Preliminary.

^{4/} Less than .05 percent.

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

TABLE 60. STEEL SIC 331
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	101.6	101.2	(103.2)	100.1	99.4	103.2
1969.....	108.5	103.5	103.5	(103.6)	101.4	100.8	103.6
1970.....	100.4	98.5	97.7	(101.7)	98.9	98.3	101.7
1971.....	95.5	90.4	89.1	(96.0)	91.0	89.8	95.9
1972.....	102.4	91.6	91.5	(92.3)	90.2	89.6	92.3
1973 ^{2/}	121.9	98.4	99.3	(94.5)	95.5	95.7	94.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	1.5	-0.3	-0.7	(1.5)	-0.5	-0.9	1.5
1968-73.....	1.4	-1.7	-1.6	(-2.4)	-1.9	-1.8	-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 man-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 61. GRAY IRON FOUNDRIES SIC 3321
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	107.1	106.9	(108.2)	109.7	109.8	109.4
1969.....	113.2	112.9	(116.1)	116.1	116.0	116.8
1970.....	108.4	109.7	(99.9)	106.2	107.1	100.5
1971.....	113.6	115.6	(101.1)	111.6	113.3	101.8
1972.....	118.8	120.0	(111.6)	121.3	123.0	111.6
1973 ^{3/}	119.2	119.0	(120.3)	125.7	126.4	114.7
AVERAGE ANNUAL RATES (PERCENT)						
1954-73.....	2.2	2.3	(1.8)	2.6	2.7	1.7
1968-73.....	2.1	2.2	(1.2)	2.5	2.7	0.3

^{1/} The output measures underlying the output per man-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 man-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 62. GRAY IRON FOUNDRIES SIC 3321
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	108.2	101.0	101.2	(100.0)	98.6	98.5	98.9
1969.....	121.1	107.0	107.3	(104.3)	104.3	104.4	103.7
1970.....	108.5	100.1	98.9	(108.6)	102.2	101.3	108.0
1971.....	107.2	94.4	92.7	(106.0)	96.1	94.6	105.3
1972.....	121.2	102.0	101.0	(108.6)	99.9	98.5	108.6
1973 ^{2/}	135.1	113.3	113.5	(112.3)	107.5	106.9	117.8
AVERAGE ANNUAL RATES. (PERCENT)							
1954-73....	3.1	0.8	0.8	(1.3)	0.5	0.3	1.4
1968-73....	3.2	1.1	0.9	(2.0)	0.7	0.5	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 man-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 63. STEEL FOUNDRIES SIC 3323
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	97.7	99.1	(90.4)	96.4	97.5	91.2
1969.....	99.5	100.0	(96.8)	99.6	100.0	97.2
1970.....	96.0	97.4	(89.2)	94.5	95.5	89.6
1971.....	100.3	104.2	(83.4)	97.8	101.1	83.7
1972.....	105.2	108.1	(91.4)	102.4	104.9	91.4
1973 ^{3/}	114.0	115.2	(108.1)	113.2	114.2	108.5
AVERAGE ANNUAL RATES (PERCENT)						
1954-73.....	1.4	1.5	(0.8)	1.5	1.7	0.8
1968-73.....	2.8	3.0	(1.9)	2.7	2.9	1.8

^{1/} The output measures underlying the output per man-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 man-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 64. STEEL FOUNDRIES SIC 3323
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	92.7	94.9	93.5	(102.6)	96.2	95.1	101.7
1969.....	99.7	100.2	99.7	(103.0)	100.1	99.7	102.6
1970.....	83.4	86.9	85.6	(93.5)	88.3	87.3	93.1
1971.....	80.1	79.9	76.9	(96.1)	81.9	79.2	95.7
1972.....	85.1	80.9	78.7	(93.1)	83.1	81.1	93.1
1973 ^{2/}	100.3	88.0	87.1	(92.8)	88.6	87.8	92.4
AVERAGE ANNUAL RATES (PERCENT)							
1954-73.....	2.1	0.7	0.6	(1.3)	0.6	0.4	1.3
1968-73.....	-0.3	-3.1	-3.3	(-2.2)	-2.9	-3.1	-2.1

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 65. PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	118.3	112.8	(147.0)	117.8	111.8	147.7
1969.....	120.9	113.8	(162.2)	121.4	113.6	163.8
1970.....	117.0	111.4	(147.4)	117.7	111.6	148.2
1971.....	122.3	119.2	(136.9)	120.8	117.6	134.7
1972.....	136.0	129.4	(171.6)	134.5	127.6	168.7
1973 ^{4/}	143.1	137.3	(172.4)	141.8	135.7	169.9
AVERAGE ANNUAL RATES (PERCENT)						
1947-73.....	2.3	2.5	(1.2)	2.1	2.3	1.1
1968-73.....	3.9	4.2	(2.6)	3.7	4.0	2.0

^{1/} The output measures underlying the output per man-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 man-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 66. PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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	111.6	117.0	(89.8)	112.1	118.1	89.4
1969.....	160.4	132.7	140.9	(98.9)	132.1	141.2	97.9
1970.....	160.8	137.4	144.3	(109.1)	136.6	144.1	108.5
1971.....	146.2	119.5	122.6	(106.8)	121.0	124.3	108.5
1972.....	157.9	116.1	122.0	(92.0)	117.4	123.7	93.6
1973 ^{3/}	162.6	113.6	118.4	(94.3)	114.7	119.8	95.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	1.5	-0.8	-1.0	(0.2)	-0.6	-0.8	0.3
1968-73....	2.6	-1.3	-1.5	(4/)	-1.0	-1.3	0.6

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 man-hours.

2/ Not available.

3/ Preliminary.

4/ Less than .05 percent.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, 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 67. PRIMARY ALUMINUM SIC 3334
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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	98.6	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.....	94.9	95.6	(92.1)	94.9	95.1	93.5
1969.....	105.1	104.8	(106.1)	106.2	106.0	106.7
1970.....	108.9	109.8	(104.6)	108.4	109.1	105.6
1971.....	119.6	122.7	(107.6)	118.1	120.7	108.3
1972.....	118.1	121.4	(105.3)	115.9	118.7	105.4
1973 ^{4/}	119.5	123.2	(105.5)	118.3	121.5	106.3
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	4.5	4.8	(3.4)	4.2	4.4	3.4
1968-73....	4.7	5.3	(2.0)	4.2	4.9	1.8

^{1/} The output measures underlying the output per man-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 man-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 68. PRIMARY ALUMINUM SIC 3334
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	99.6	104.9	104.2	(108.1)	105.0	104.7	106.5
1969.....	116.0	110.4	110.7	(109.3)	109.2	109.4	108.7
1970.....	121.6	111.7	110.7	(116.3)	112.2	111.5	115.2
1971.....	120.1	100.4	97.9	(111.6)	101.7	99.5	110.9
1972.....	126.1	106.8	103.9	(119.8)	108.8	106.2	119.6
1973 ^{3/}	138.6	116.0	112.5	(131.4)	117.2	114.1	130.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	8.0	3.2	2.9	(4.3)	3.5	3.3	4.3
1968-73.....	5.5	0.9	0.2	(3.5)	1.3	0.7	3.7

^{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 man-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 69. ALUMINUM ROLLING AND DRAWING SIC 3352
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	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.....	104.7	105.6	(101.0)	103.2	103.5	101.9
1969.....	107.2	107.5	(103.7)	107.1	107.9	104.1
1970.....	109.1	113.4	(94.3)	105.5	108.8	94.5
1971.....	119.0	123.5	(103.6)	113.9	116.8	104.1
1972.....	134.0	134.6	(131.8)	132.1	132.3	131.5
1973 <u>3/</u>	150.5	149.6	(154.8)	151.4	150.3	155.3
AVERAGE ANNUAL RATES (PERCENT)						
1958-73.....	5.3	5.4	(5.1)	5.1	5.1	5.1
1968-73.....	7.6	7.4	(8.8)	7.8	7.6	8.7

1/ The output measures underlying the output per man-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 man-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 70. ALUMINUM ROLLING AND DRAWING SIC 3352
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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.....	110.7	105.7	104.8	(109.6)	107.3	107.0	108.6
1969.....	118.8	110.8	110.5	(114.6)	110.9	110.1	114.1
1970.....	111.5	102.2	98.3	(118.3)	105.7	102.5	118.0
1971.....	119.5	100.4	96.8	(115.4)	104.9	102.3	114.8
1972.....	143.9	107.4	106.9	(109.2)	108.9	108.8	109.4
1973 <u>2/</u>	173.5	115.3	116.0	(112.1)	114.6	115.4	111.7
AVERAGE ANNUAL RATES (PERCENT)							
1958-73.....	7.6	2.1	2.0	(2.3)	2.3	2.3	2.3
1968-73.....	8.6	0.9	1.1	(-0.2)	0.8	1.0	(<u>3/</u>)

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 man-hours.

2/ Preliminary.

3/ Less than .05 percent.

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 71. METAL CANS SIC 341
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	104.3	104.6	(102.2)	104.9	105.1	103.1
1969.....	107.2	107.7	(103.9)	105.1	105.3	104.3
1970.....	105.9	106.7	(100.6)	104.2	104.8	101.0
1971.....	105.2	107.0	(93.0)	101.5	102.8	93.4
1972.....	106.7	108.0	(97.6)	104.6	105.7	97.6
1973 ^{4/}	112.4	112.8	(109.4)	113.2	113.8	109.9
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	2.3	2.3	(2.3)	2.4	2.5	2.2
1968-73....	1.0	1.1	(0.2)	1.0	1.1	0.1

^{1/} The output measures underlying the output per man-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 man-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 72. METAL CANS SIC 341
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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	106.2	105.9	(108.4)	105.6	105.4	107.5
1969.....	113.5	105.9	105.4	(109.2)	108.0	107.8	108.8
1970.....	121.2	114.4	113.6	(120.5)	116.3	115.7	120.0
1971.....	115.6	109.9	108.0	(124.3)	113.9	112.4	123.8
1972.....	118.3	110.9	109.5	(121.2)	113.1	111.9	121.2
1973 <u>3/</u>	127.7	113.6	113.2	(116.7)	112.8	112.2	116.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	3.7	1.4	1.4	(1.4)	1.3	1.2	1.5
1968-73.....	2.3	1.3	1.1	(2.1)	1.3	1.1	2.1

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 73. MAJOR HOUSEHOLD APPLIANCES SIC 3631,2,3,9
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>			OUTPUT PER EMPLOYEE <u>1/</u>		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>2/</u>	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.....	105.1	104.0	(110.4)	106.6	105.4	111.4
1969.....	108.6	108.7	(108.1)	108.2	108.2	108.5
1970.....	105.8	106.0	(104.8)	106.2	106.5	105.1
1971.....	120.3	121.0	(117.2)	120.8	121.5	117.8
1972.....	130.7	129.5	(135.9)	131.6	130.5	136.1
1973 <u>3/</u>	126.9	126.1	(130.4)	126.5	125.3	131.1
AVERAGE ANNUAL RATES (PERCENT)						
1958-73.....	5.3	4.9	(6.6)	5.1	4.8	6.6
1968-73.....	4.8	4.7	(4.8)	4.6	4.6	4.7

1/ The output measures underlying the output per man-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 man-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 74. MAJOR HOUSEHOLD APPLIANCES SIC 3631,2,3,9
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	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.....	110.4	105.0	106.2	(100.0)	103.6	104.7	99.1
1969.....	110.0	101.3	101.2	(101.8)	101.7	101.7	101.4
1970.....	105.6	99.8	99.6	(100.8)	99.4	99.2	100.5
1971.....	99.5	82.7	82.2	(84.9)	82.4	81.9	84.5
1972.....	112.4	86.0	86.8	(82.7)	85.4	86.1	82.6
1973 ^{2/}	118.8	93.6	94.2	(91.1)	93.9	94.8	90.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-73.....	5.3	(^{3/})	0.3	(-1.3)	0.1	0.5	-1.2
1968-73.....	1.1	-3.5	-3.5	(-3.5)	-3.4	-3.3	-3.5

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 75. RADIO AND TELEVISION RECEIVING SETS SIC 3651 ^{1/}
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{2/}			OUTPUT PER EMPLOYEE ^{2/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{3/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	63.1	66.4	(50.6)	63.9	67.3	51.6
1959.....	67.4	69.2	(59.9)	68.2	70.0	61.1
1960.....	69.1	72.6	(56.1)	69.8	73.3	56.8
1961.....	70.7	75.3	(54.2)	69.9	74.3	54.6
1962.....	78.8	81.4	(68.2)	79.5	82.2	68.6
1963.....	87.5	88.0	(85.3)	88.5	89.0	85.7
1964.....	87.3	87.4	(86.6)	89.9	90.4	87.4
1965.....	95.6	94.4	(102.4)	99.7	99.0	102.9
1966.....	98.5	96.0	(112.6)	100.4	98.2	112.7
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	116.1	117.4	(110.8)	116.4	117.5	111.6
1969.....	125.1	128.2	(112.2)	126.1	129.4	112.9
1970.....	130.2	140.4	(95.8)	130.2	140.8	96.3
1971.....	142.3	150.3	(113.6)	142.5	150.5	113.6
AVERAGE ANNUAL RATES (PERCENT)						
1958-71....	6.4	6.3	(6.8)	6.4	6.3	6.7

^{1/} Indexes for 1972 and 1973 not available due to data problems.

^{2/} The output measures underlying the output per man-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/} 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 man-hours.

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 76. RADIO AND TELEVISION RECEIVING SETS SIC 3651 ^{1/}
 INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
 (1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	36.4	57.7	54.8	(71.9)	57.0	54.1	70.5
1959.....	43.8	65.0	63.3	(73.1)	64.2	62.6	71.7
1960.....	42.9	62.1	59.1	(76.5)	61.5	58.5	75.5
1961.....	46.0	65.1	61.1	(84.8)	65.8	61.9	84.3
1962.....	56.5	71.7	69.4	(82.9)	71.1	68.7	82.4
1963.....	61.6	70.4	70.0	(72.2)	69.6	69.2	71.9
1964.....	66.6	76.3	76.2	(76.9)	74.1	73.7	76.2
1965.....	85.5	89.4	90.6	(83.5)	85.8	86.4	83.1
1966.....	112.0	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.....	112.2	96.6	95.6	(101.3)	96.4	95.5	100.5
1969.....	114.0	91.1	88.9	(101.6)	90.4	88.1	101.0
1970.....	100.1	76.9	71.3	(104.5)	76.9	71.1	103.9
1971.....	109.7	77.1	73.0	(96.6)	77.0	72.9	96.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-71....	10.0	3.4	3.4	(3.0)	3.4	3.5	3.1

^{1/} Indexes for 1972 and 1973 not available due to data problems.

^{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 man-hours.

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

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	108.4	106.1	(116.2)	113.6	112.1	119.2
1969.....	106.7	105.6	(110.7)	108.8	107.6	112.8
1970.....	102.6	103.9	(98.6)	101.2	102.6	96.8
1971.....	119.6	118.3	(124.1)	120.2	119.5	122.5
1972.....	124.5	122.6	(131.0)	129.8	128.8	132.9
1973 ^{3/}	127.8	125.5	(135.4)	135.2	133.8	140.0
AVERAGE ANNUAL RATES (PERCENT)						
1957-73....	3.9	3.8	(4.1)	4.1	4.1	4.2
1968-73....	4.2	4.1	(4.4)	4.6	4.6	4.5

^{1/} The output measures underlying the output per man-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 man-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 78. MOTOR VEHICLES AND EQUIPMENT SIC 371
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967=100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS <u>1/</u>	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.....	121.7	112.3	114.7	(104.7)	107.1	108.6	102.1
1969.....	121.5	113.9	115.1	(109.8)	111.7	112.9	107.7
1970.....	98.9	96.4	95.2	(100.3)	97.7	96.4	102.2
1971.....	124.0	103.7	104.8	(99.9)	103.2	103.8	101.2
1972.....	136.9	110.0	111.7	(104.5)	105.5	106.3	103.0
1973 <u>2/</u>	156.0	122.1	124.3	(115.2)	115.4	116.6	111.4
AVERAGE ANNUAL RATES (PERCENT)							
1957-73....	6.2	2.3	2.3	(2.0)	2.0	2.1	1.9
1968-73....	5.4	1.1	1.2	(0.9)	0.7	0.7	0.8

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker man-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 79. RAILROAD TRANSPORTATION-REVENUE TRAFFIC SIC 401 ^{1/}
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{2/}			OUTPUT PER EMPLOYEE ^{2/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	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 ^{3/}	131.5	132.3	125.5	132.6	133.8	122.4
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	5.2	5.4	3.1	4.9	5.1	2.5
1968-73....	4.4	4.5	3.3	4.1	4.3	2.7

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

^{2/} The output measures underlying the output per man-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 80. RAILROAD TRANSPORTATION-REVENUE TRAFFIC SIC 401 ^{1/}
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	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 ^{2/}	115.5	87.8	87.3	92.0	87.1	86.3	94.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-73.....	0.7	-4.3	-4.5	-2.3	-3.9	-4.2	-1.8
1968-73.....	1.6	-2.6	-2.8	-1.6	-2.4	-2.5	-1.0

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

^{2/} Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 81. RAILROAD TRANSPORTATION-CAR MILES SIC 401 ^{1/}
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{2/}			OUTPUT PER EMPLOYEE ^{2/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	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	85.0
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 ^{3/}	116.2	116.8	110.9	117.1	118.2	108.1
AVERAGE ANNUAL RATES (PERCENT)						
1947-73....	3.9	4.1	1.8	3.6	3.8	1.3
1968-73....	2.8	2.9	1.7	2.5	2.7	1.1

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

^{2/} The output measures underlying the output per man-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 82. RAILROAD TRANSPORTATION-CAR MILES SIC 401 ^{1/}
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS	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 ^{2/}	102.0	87.8	87.3	92.0	87.1	86.3	94.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-73....	-0.5	-4.3	-4.5	-2.3	-3.9	-4.2	-1.8
1968-73....	0.1	-2.6	-2.8	-1.6	-2.4	-2.5	-1.0

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

^{2/} Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 83. 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.....	117.5	136.8	116.4
1973 <u>2</u> /.....	123.0	151.1	122.8
AVERAGE ANNUAL RATES (PERCENT)			
1954-73.....	2.7	6.2	3.4
1968-73.....	2.9	6.2	3.2

1/ Class I and II common and contract carriers.

2/ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 84. 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.....	112.0	122.6	109.5
1973 <u>2</u> /.....	118.4	136.8	115.5
AVERAGE ANNUAL RATES (PERCENT)			
1954-73.....	2.1	5.0	2.8
1968-73.....	2.2	4.0	1.7

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

2/ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 85. AIR TRANSPORTATION SIC 451
INDEXES OF OUTPUT PER EMPLOYEE, OUTPUT, AND EMPLOYEES
(1967=100)

YEAR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEES
1947.....	18.2	6.5	35.7
1948.....	20.5	6.8	33.2
1949.....	23.4	7.6	32.5
1950.....	27.1	9.0	33.2
1951.....	31.1	11.4	36.6
1952.....	32.4	13.3	41.1
1953.....	35.2	15.4	43.8
1954.....	38.9	17.4	44.7
1955.....	43.9	20.7	47.2
1956.....	45.0	23.9	53.1
1957.....	46.6	27.1	58.2
1958.....	48.2	27.5	57.1
1959.....	51.9	31.7	61.1
1960.....	52.3	33.7	64.4
1961.....	55.4	35.7	64.4
1962.....	61.6	40.3	65.4
1963.....	68.2	45.7	67.0
1964.....	75.0	53.2	70.9
1965.....	83.7	64.3	76.8
1966.....	93.9	78.9	84.0
1967.....	100.0	100.0	100.0
1968.....	104.3	115.4	110.6
1969.....	107.2	126.5	118.0
1970.....	109.7	128.5	117.1
1971.....	116.6	131.6	112.9
1972.....	128.5	144.7	112.6
1973 <u>1/</u>	130.8	153.3	117.2
AVERAGE ANNUAL RATES (PERCENT)			
1947-73.....	7.6	13.6	5.6
1968-73.....	5.1	5.4	0.3

1/ Preliminary.

Source: Based on Civil Aeronautics Board data.

TABLE 86. PETROLEUM PIPELINES SIC 4612, 4613
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR <u>1/</u>		OUTPUT PER EMPLOYEE <u>1/</u>	
	EMPLOYEES	PRODUCTION WORKERS <u>2/</u>	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.....	122.0	129.9	121.4	129.3
1972 <u>4/</u>	132.4	142.9	130.5	140.8
AVERAGE ANNUAL RATES (PERCENT)				
1947-72.....	(3/)	(3/)	8.9	(3/)
1968-72.....	5.3	7.1	5.1	6.9

1/ The output measures underlying the output per man-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 87. PETROLEUM PIPELINES SIC 4612, 4613
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS		EMPLOYMENT	
		EMPLOYEES	PRODUCTION WORKERS ^{1/}	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	95.8	90.0	96.3	90.4
1972 ^{3/}	126.3	95.4	88.4	96.8	89.7
AVERAGE ANNUAL RATES (PERCENT)					
1947-72.....	6.3	(2/)	(2/)	-2.4	(2/)
1968-72.....	4.7	-0.6	-2.2	-0.4	-2.0

^{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 88. TELEPHONE COMMUNICATIONS SIC 481
INDEXES OF OUTPUT PER MAN-HOUR, OUTPUT PER EMPLOYEE, OUTPUT,
EMPLOYEES, AND MAN-HOURS
(1967=100)

YEAR	OUTPUT PER EMPLOYEE MAN-HOUR	OUTPUT PER EMPLOYEE	OUTPUT	EMPLOYEE MAN-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.....	123.2	123.2	146.8	119.2	119.2
1973 <u>1</u> /.....	128.9	130.0	158.3	122.8	121.8
AVERAGE ANNUAL RATES (PERCENT)					
1951-73.....	6.4	6.4	8.1	1.6	1.6
1968-73.....	4.2	3.8	7.6	3.3	3.6

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

YEAR	OUTPUT PER MAN-HOUR ^{1/}		OUTPUT PER EMPLOYEE ^{1/}	
	EMPLOYEES	PRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS ^{2/}
1939.....	15.8	(3/)	15.1	(3/)
1947.....	26.2	23.8	26.5	24.0
1948.....	27.5	25.1	27.7	25.3
1949.....	28.1	25.8	28.1	25.8
1950.....	31.3	28.9	31.5	29.0
1951.....	34.7	32.0	35.1	32.4
1952.....	37.0	34.3	37.2	34.5
1953.....	39.6	37.1	39.7	37.1
1954.....	42.4	40.0	42.3	39.9
1955.....	47.2	44.9	47.1	44.7
1956.....	51.1	48.8	51.0	48.7
1957.....	53.7	51.5	53.2	51.1
1958.....	56.4	54.4	55.5	53.5
1959.....	61.5	59.7	60.8	59.0
1960.....	65.5	63.8	64.8	63.0
1961.....	69.4	67.9	68.4	66.8
1962.....	74.9	73.5	74.3	72.8
1963.....	79.5	78.6	79.0	78.0
1964.....	85.5	84.8	84.9	84.1
1965.....	89.2	88.5	89.0	88.3
1966.....	95.7	95.3	95.8	95.3
1967.....	100.0	100.0	100.0	100.0
1968.....	107.0	107.1	107.1	107.1
1969.....	113.8	114.4	114.1	114.6
1970.....	117.3	117.9	117.6	118.2
1971.....	122.7	123.9	122.7	123.9
1972.....	127.2	128.8	127.2	128.8
1973 ^{4/}	127.7	130.1	128.0	130.4
AVERAGE ANNUAL RATES (PERCENT)				
1947-73....	6.7	7.2	6.7	7.1
1968-73....	3.7	4.0	3.7	4.0

^{1/} The output measures underlying the output per man-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 90. GAS AND ELECTRIC UTILITIES SIC 491,492,493
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS		EMPLOYMENT	
		EMPLOYEES	PRODUCTION WORKERS ^{1/}	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	101.7	101.6	101.6	101.6
1969.....	118.4	104.0	103.5	103.8	103.3
1970.....	125.6	107.1	106.5	106.8	106.3
1971.....	132.2	107.7	106.7	107.7	106.7
1972.....	140.9	110.8	109.4	110.8	109.4
1973 ^{3/}	145.8	114.2	112.1	113.9	111.8
AVERAGE ANNUAL RATES (PERCENT)					
1947-73.....	7.7	1.0	0.5	1.0	0.5
1968-73.....	6.0	2.2	1.9	2.2	1.9

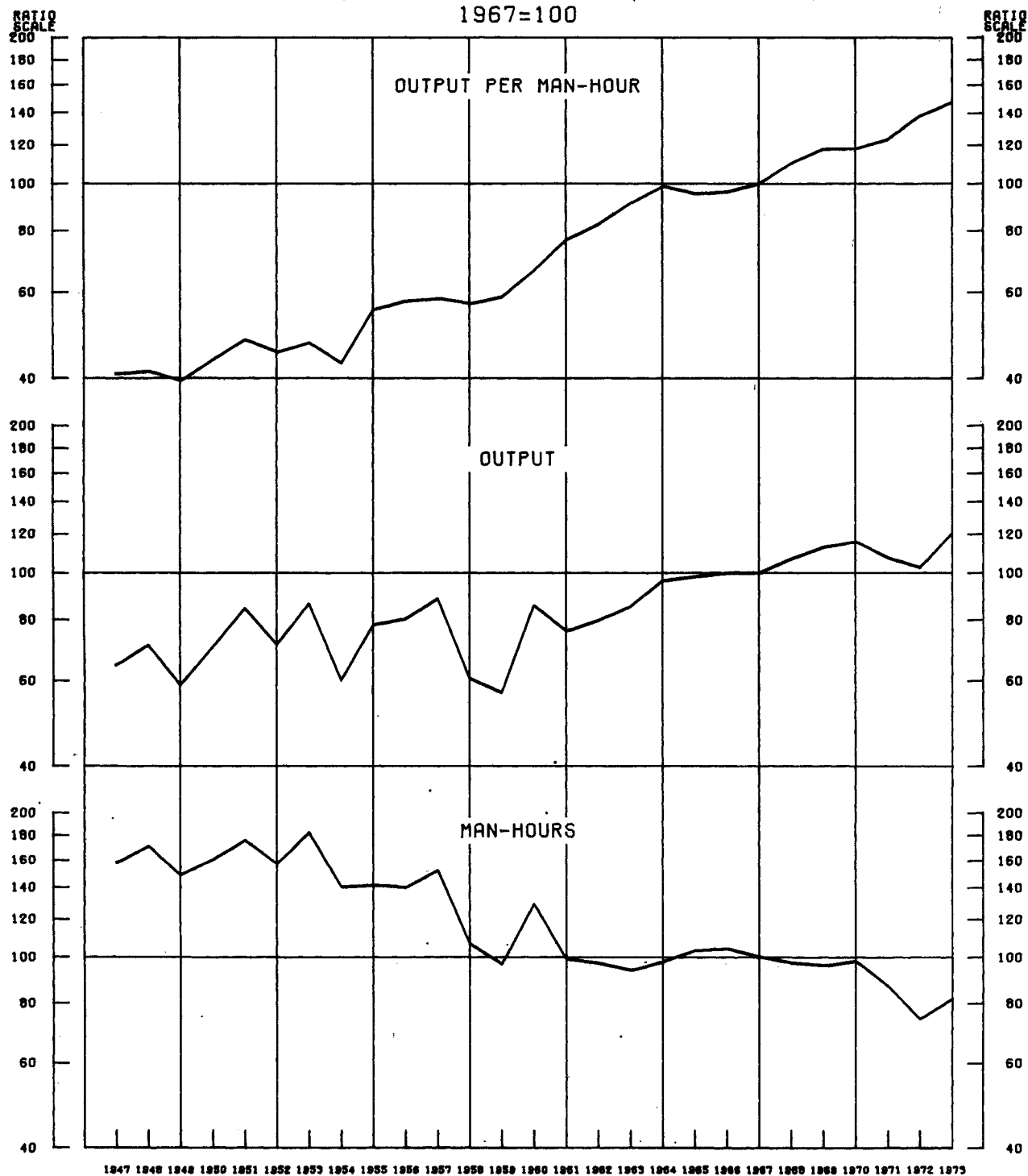
^{1/} Represents nonsupervisory workers.

^{2/} Not available.

^{3/} Preliminary.

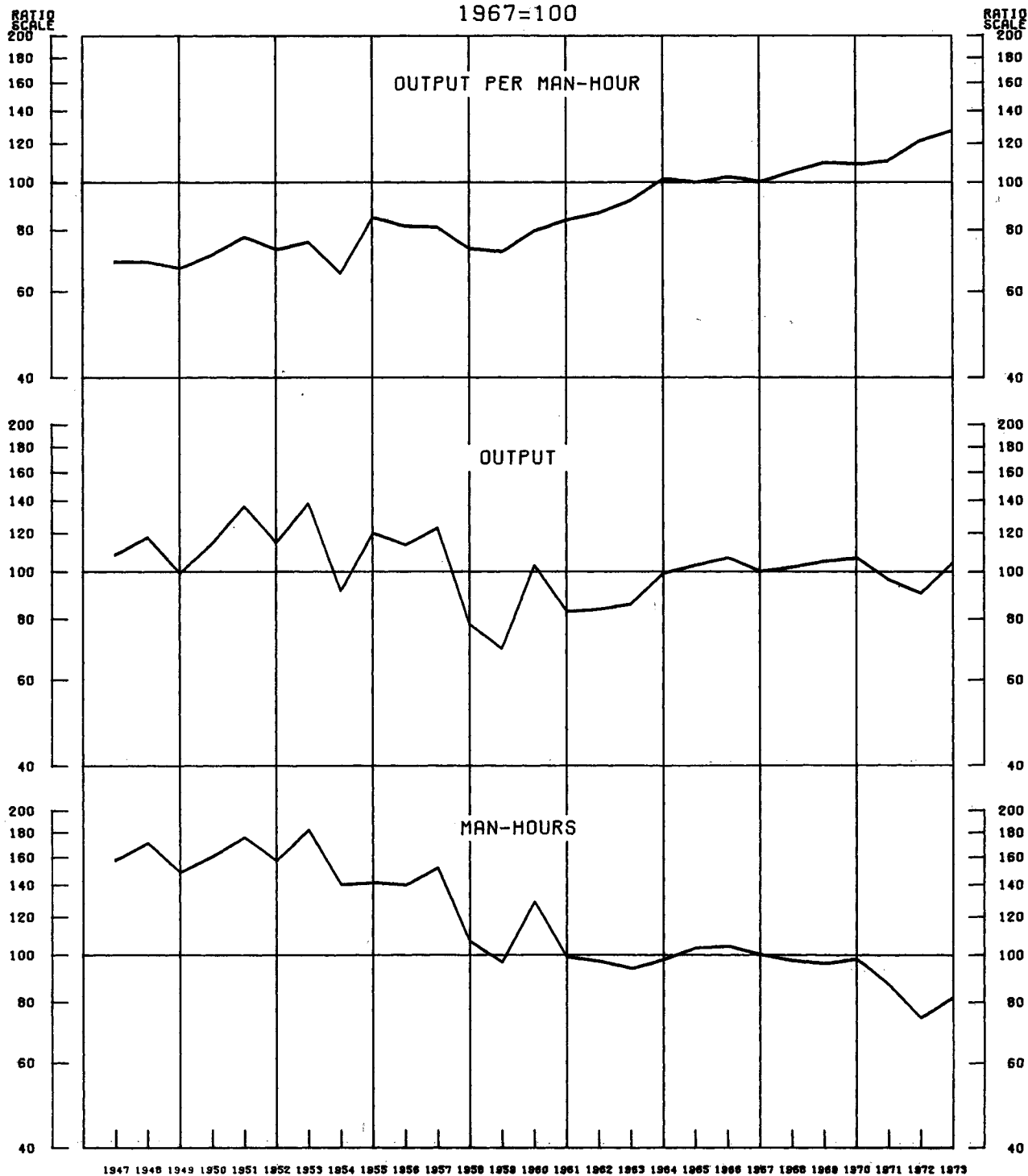
Source: Output based on data from the American Gas Association, Federal Power Commission, Rural Electrification Administration of the U.S. Department of Agriculture, and the Bureau of Labor Statistics, U.S. Department of Labor. Employment and hours based on data from the Bureau of Labor Statistics, U.S.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

CHART 2
 IRON MINING, CRUDE ORE (SIC 101), 1947-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



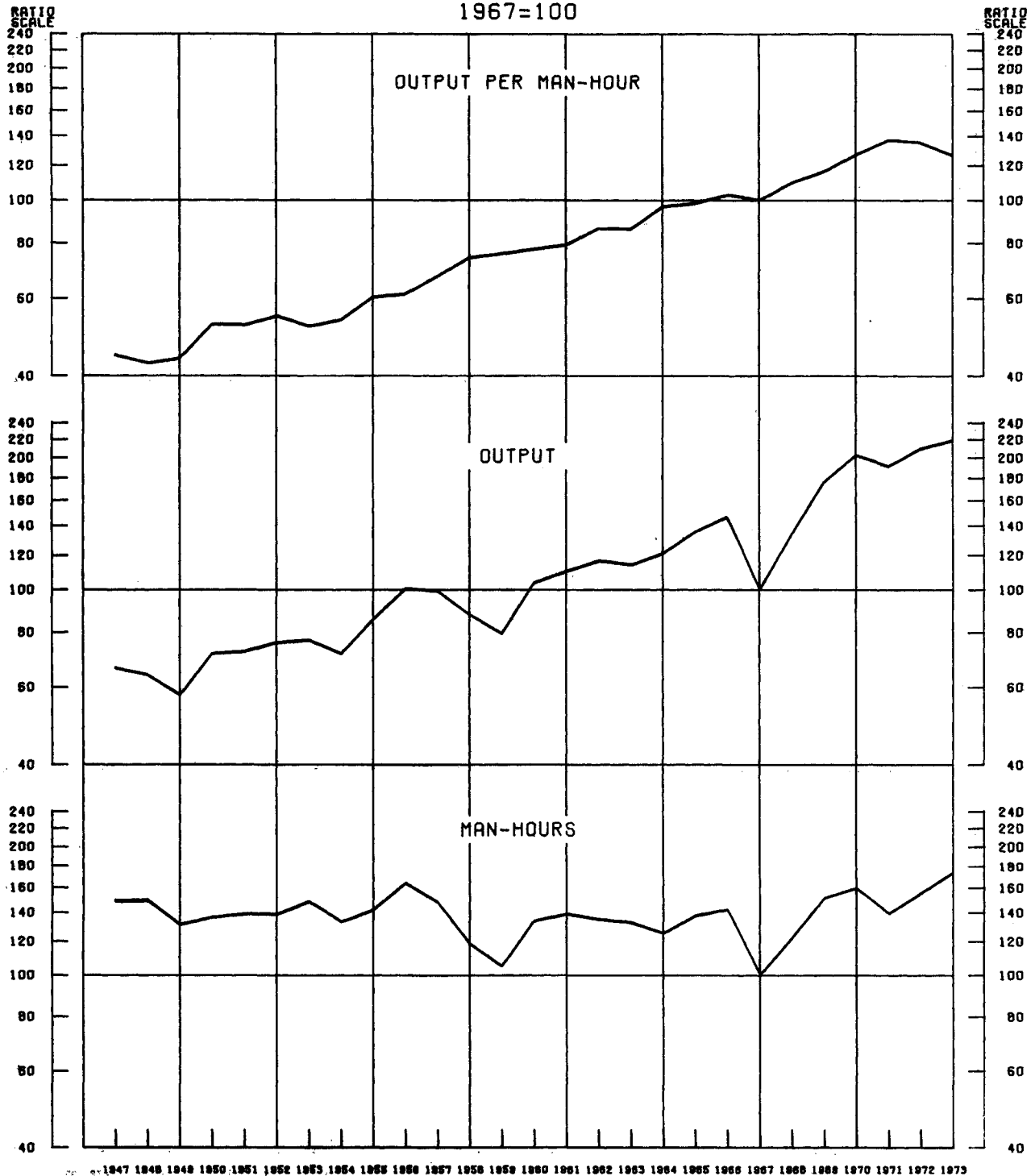
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 3
IRON MINING, USABLE ORE (SIC 101), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



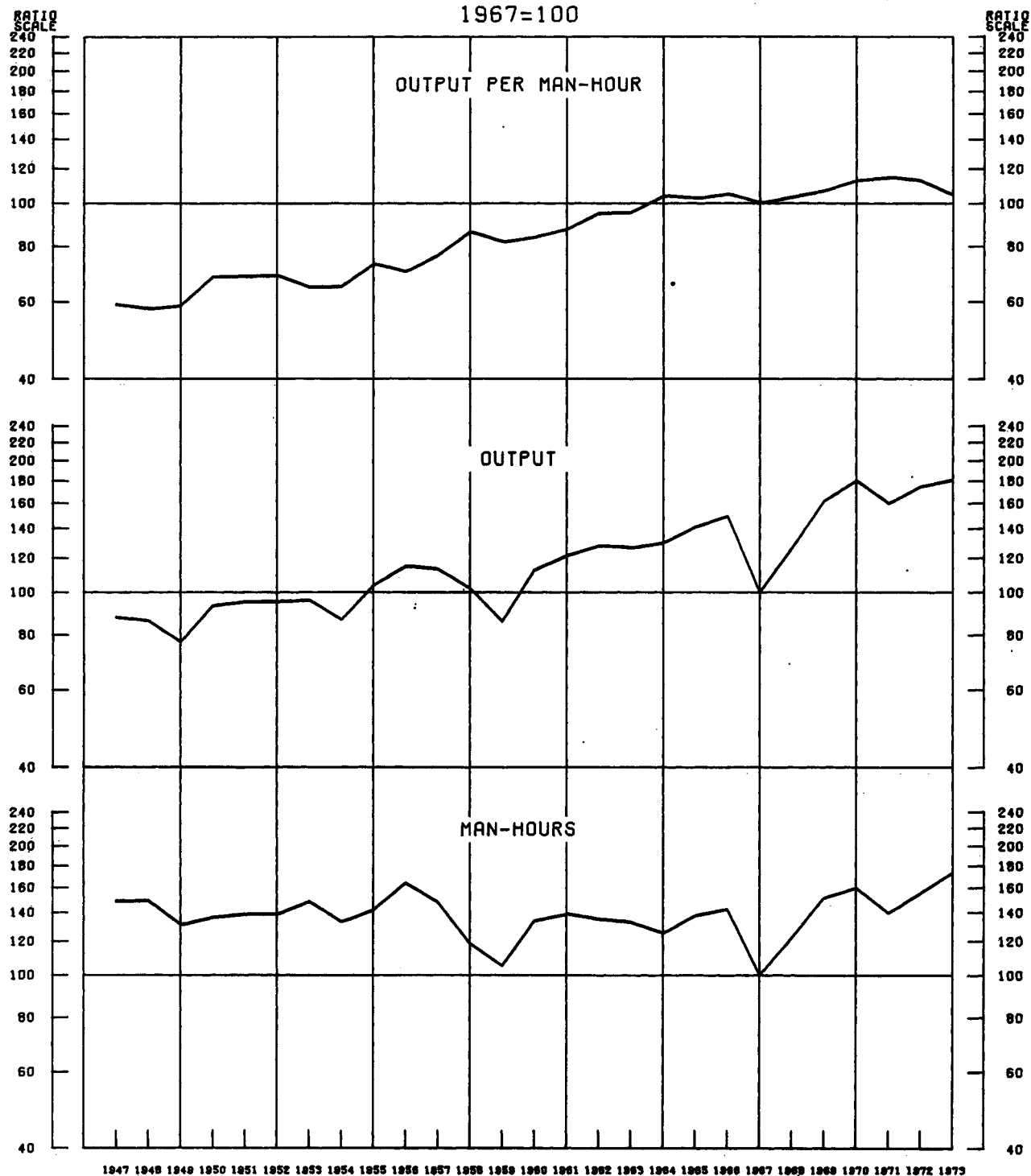
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 4
COPPER MINING, CRUDE ORE (SIC 102), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



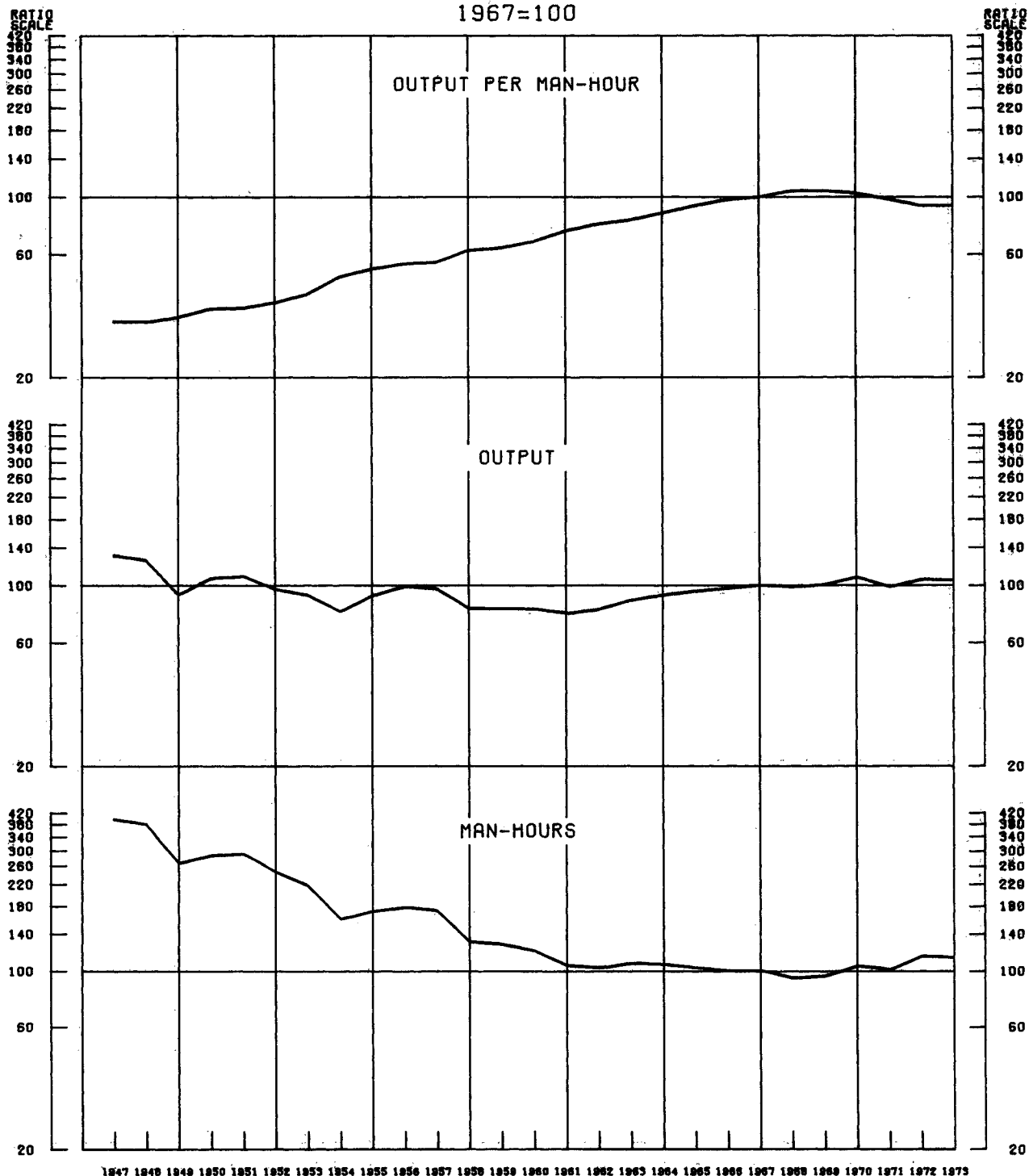
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 5
COPPER MINING, RECOVERABLE METAL (SIC 102), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



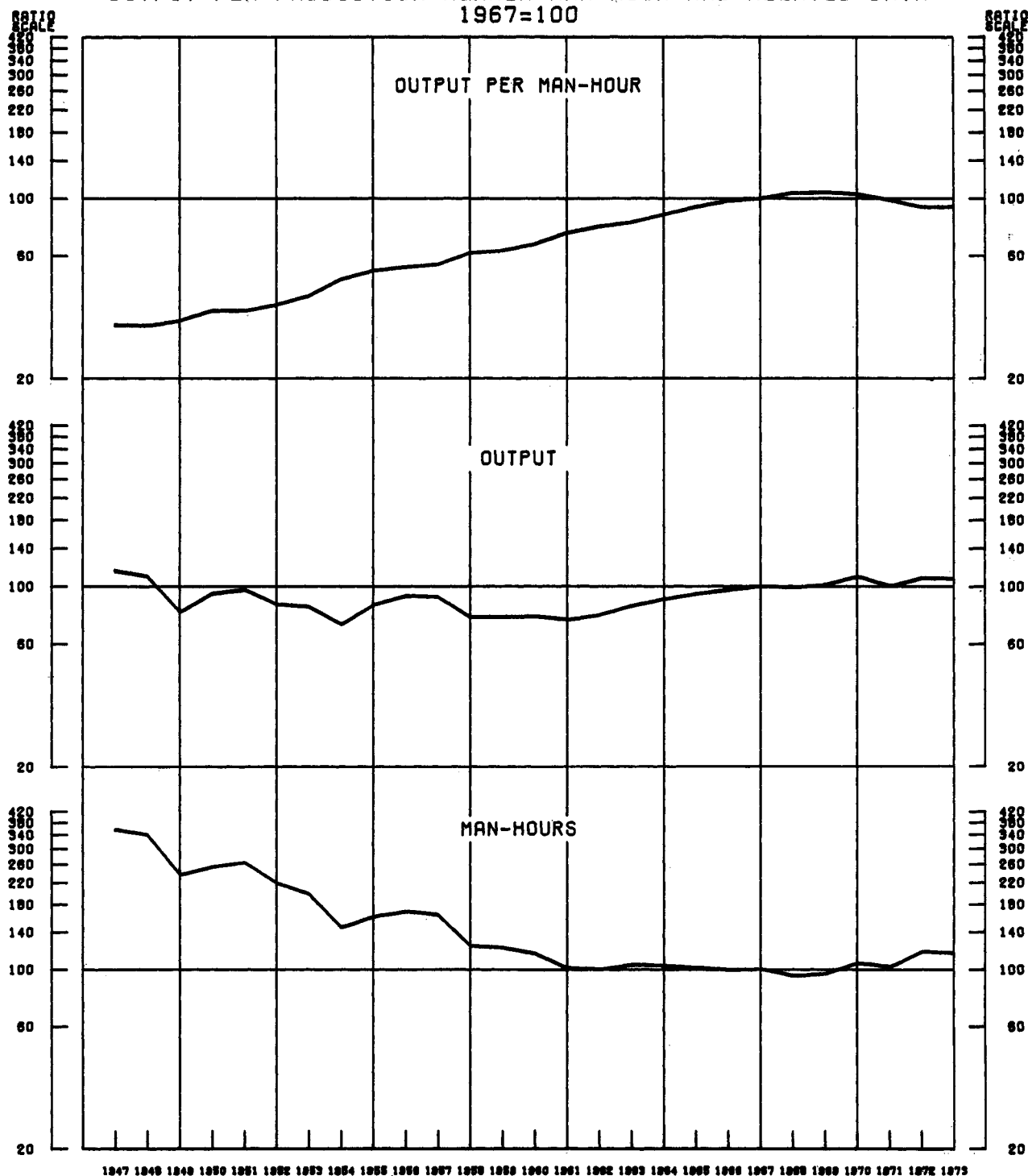
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 6
 COAL MINING (SIC 11, 12), 1947-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



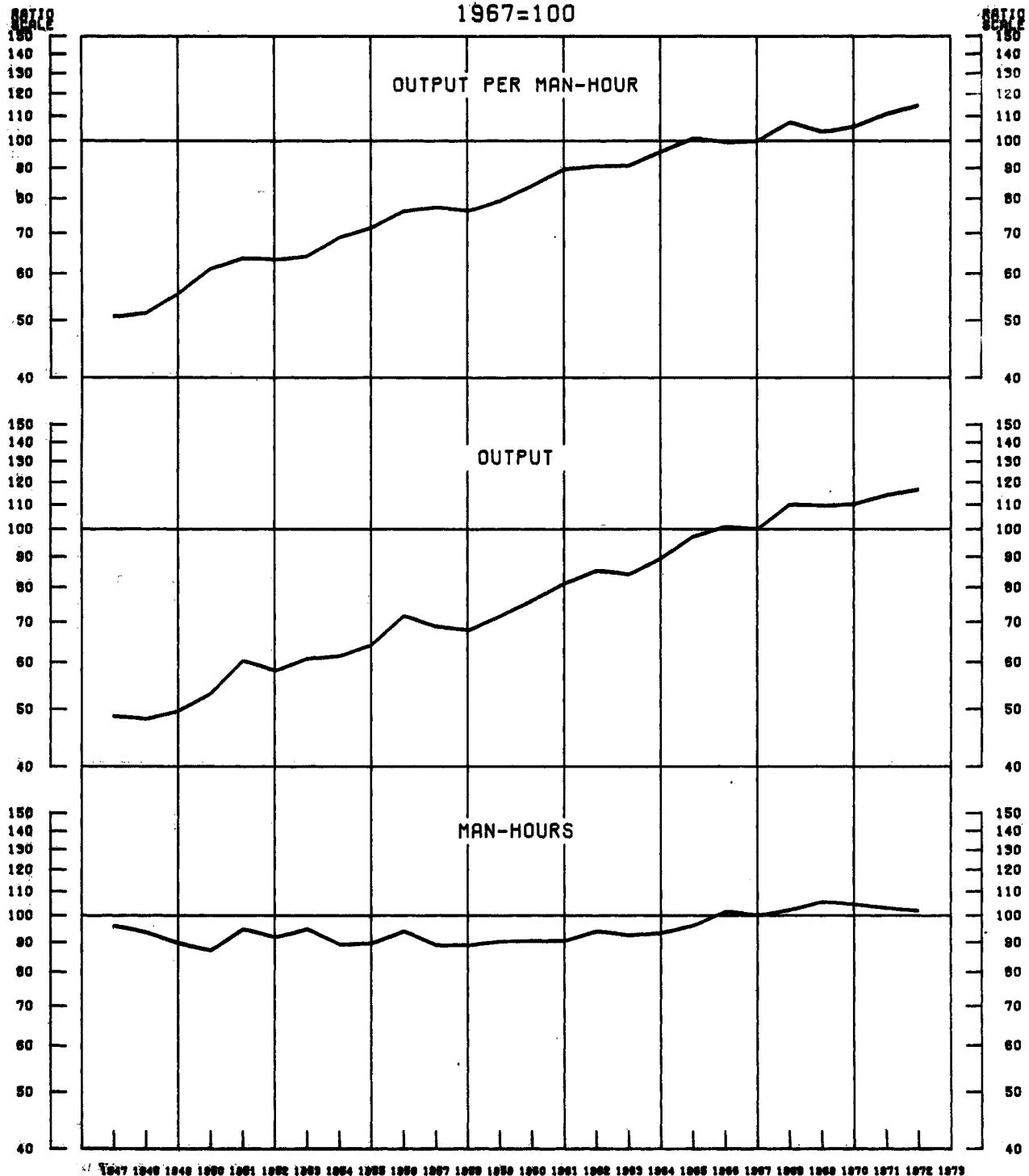
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 7
BITUMINOUS COAL AND LIGNITE MINING (SIC 12), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



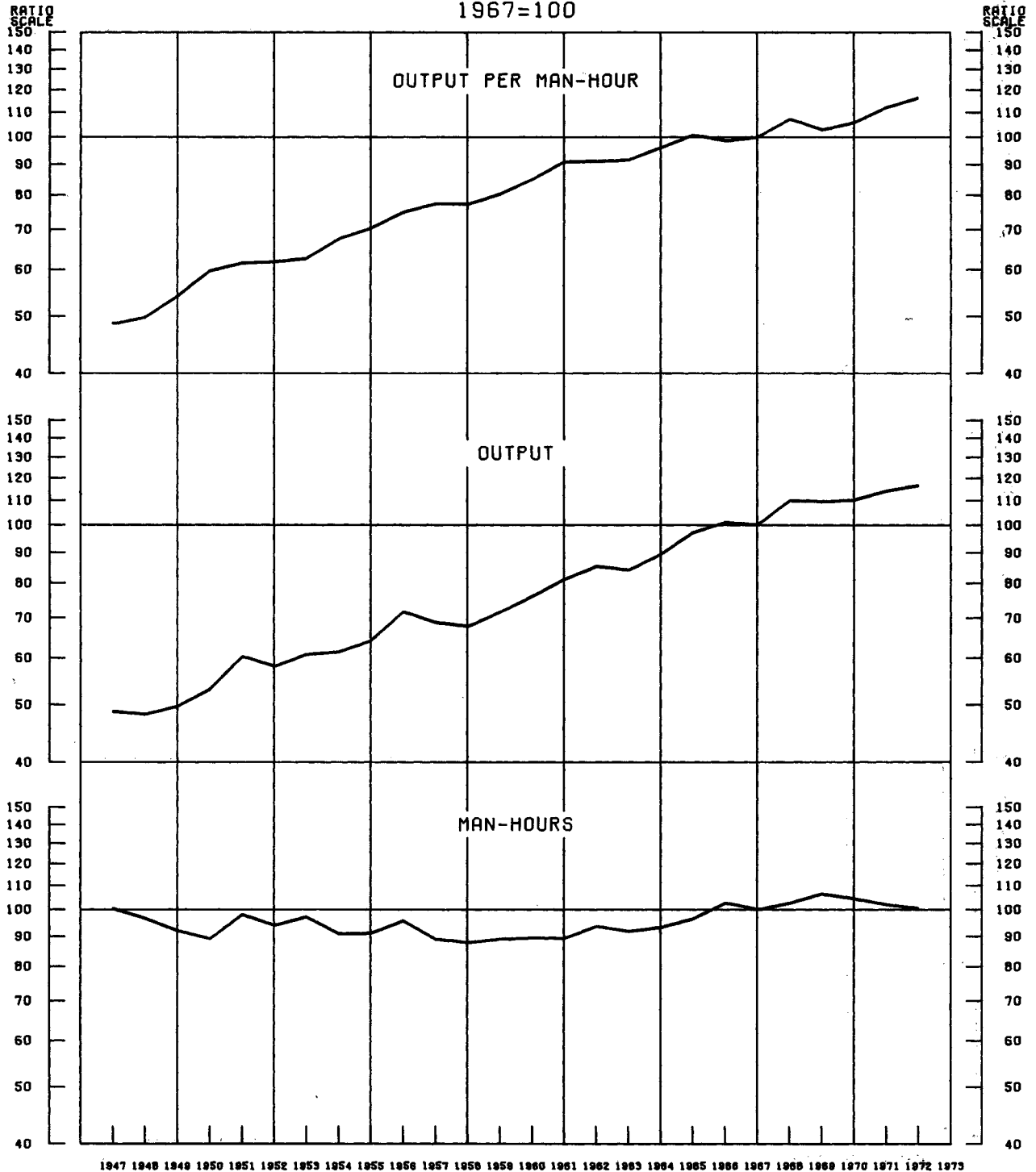
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 8
CANNING AND PRESERVING (SIC 203), 1947-72
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



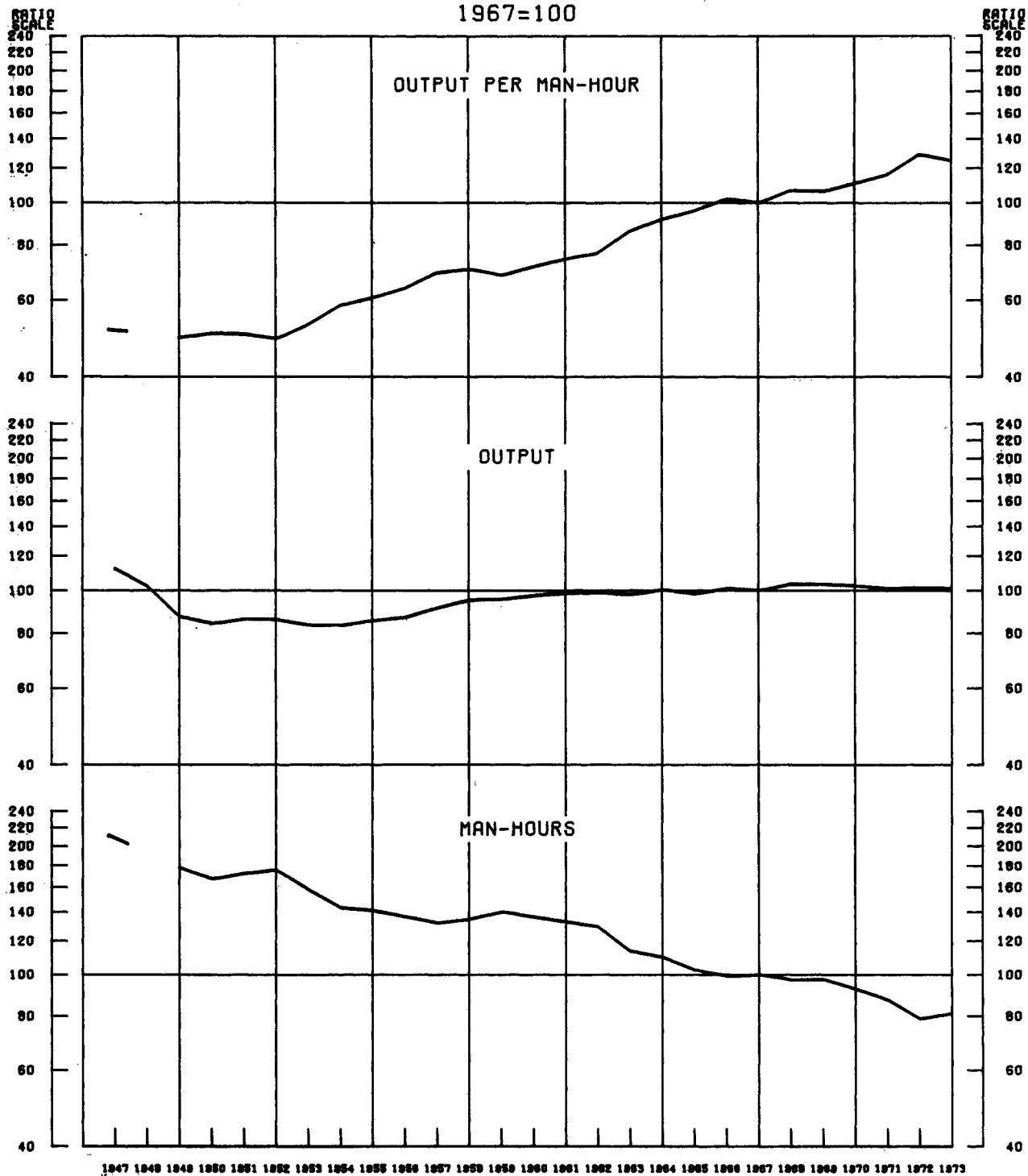
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 9
CANNING AND PRESERVING (SIC 203), 1947-72
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

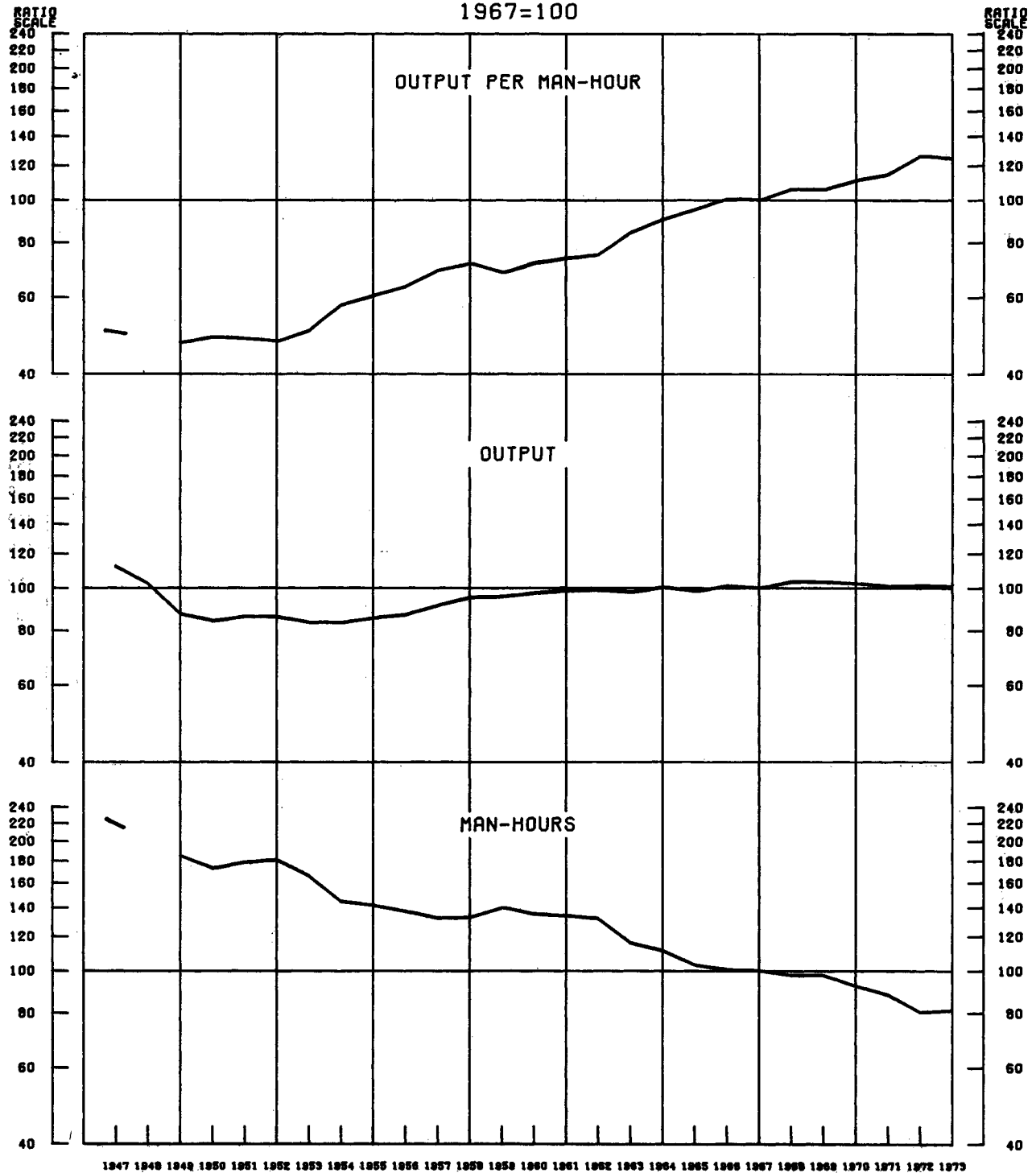
CHART 10
FLOUR AND OTHER GRAIN-MILL PRODUCTS (SIC 2041), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

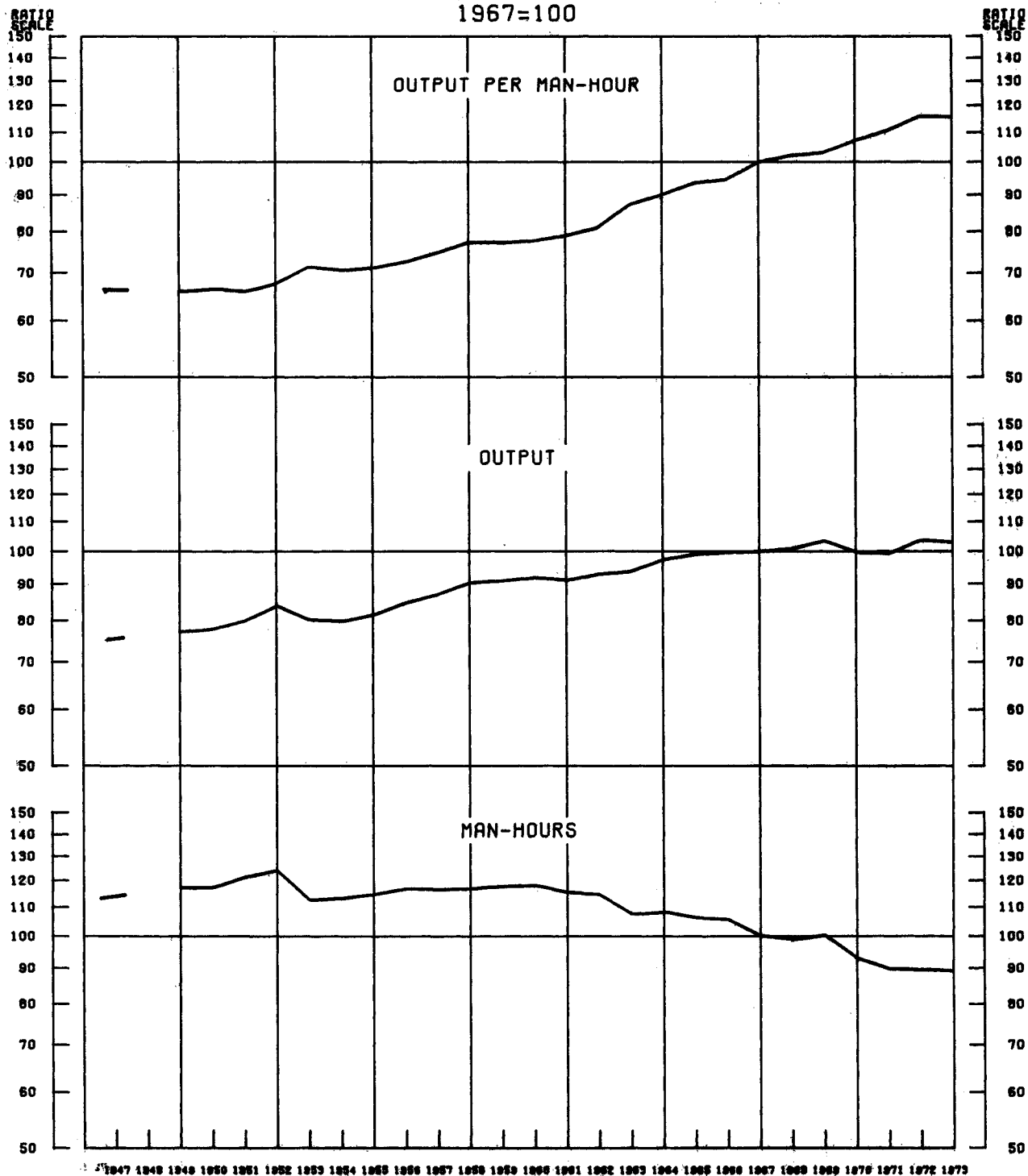
CHART 11
FLOUR AND OTHER GRAIN-MILL PRODUCTS (SIC 2041), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

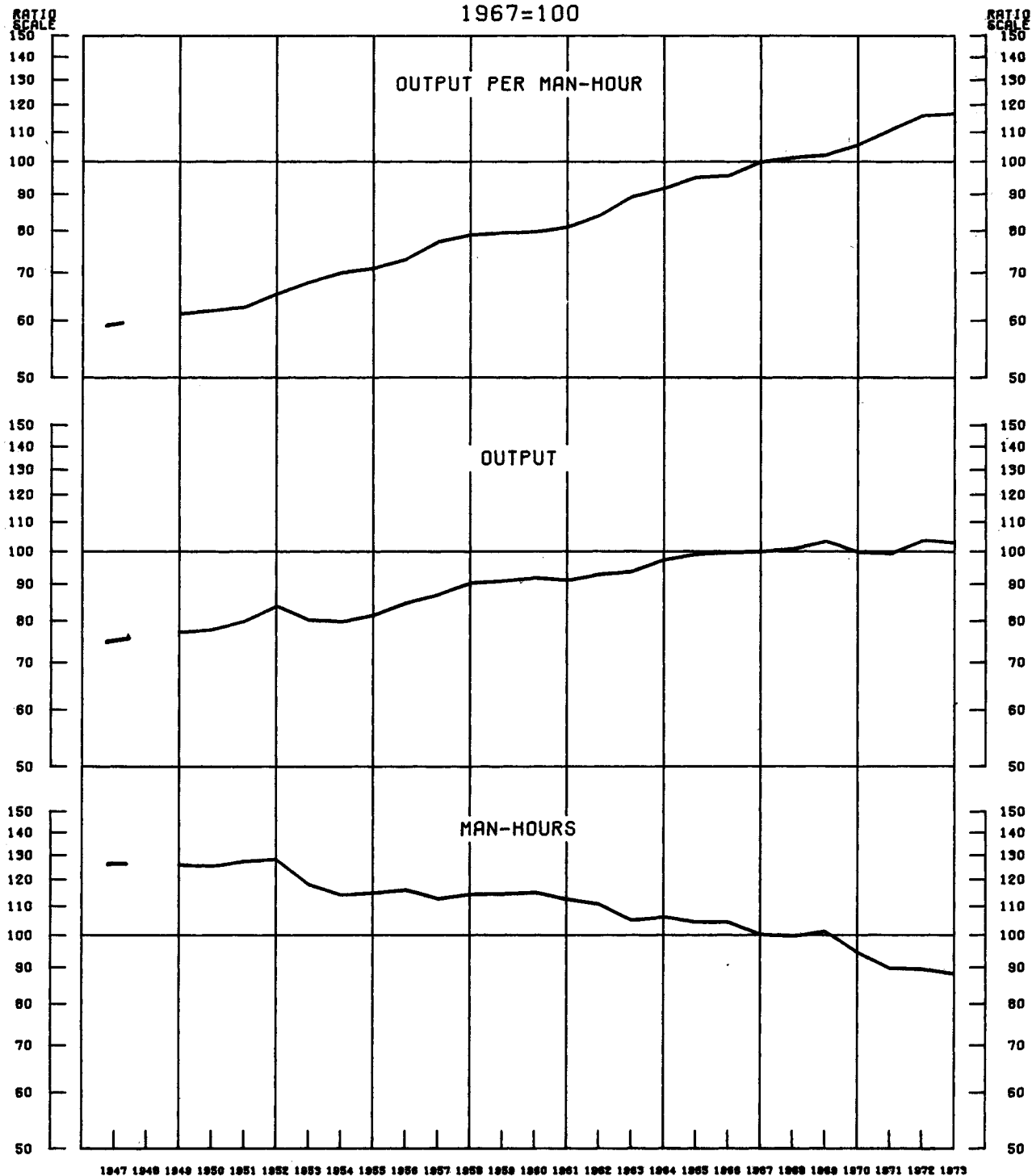
CHART 12
BAKERY PRODUCTS (SIC 205). 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

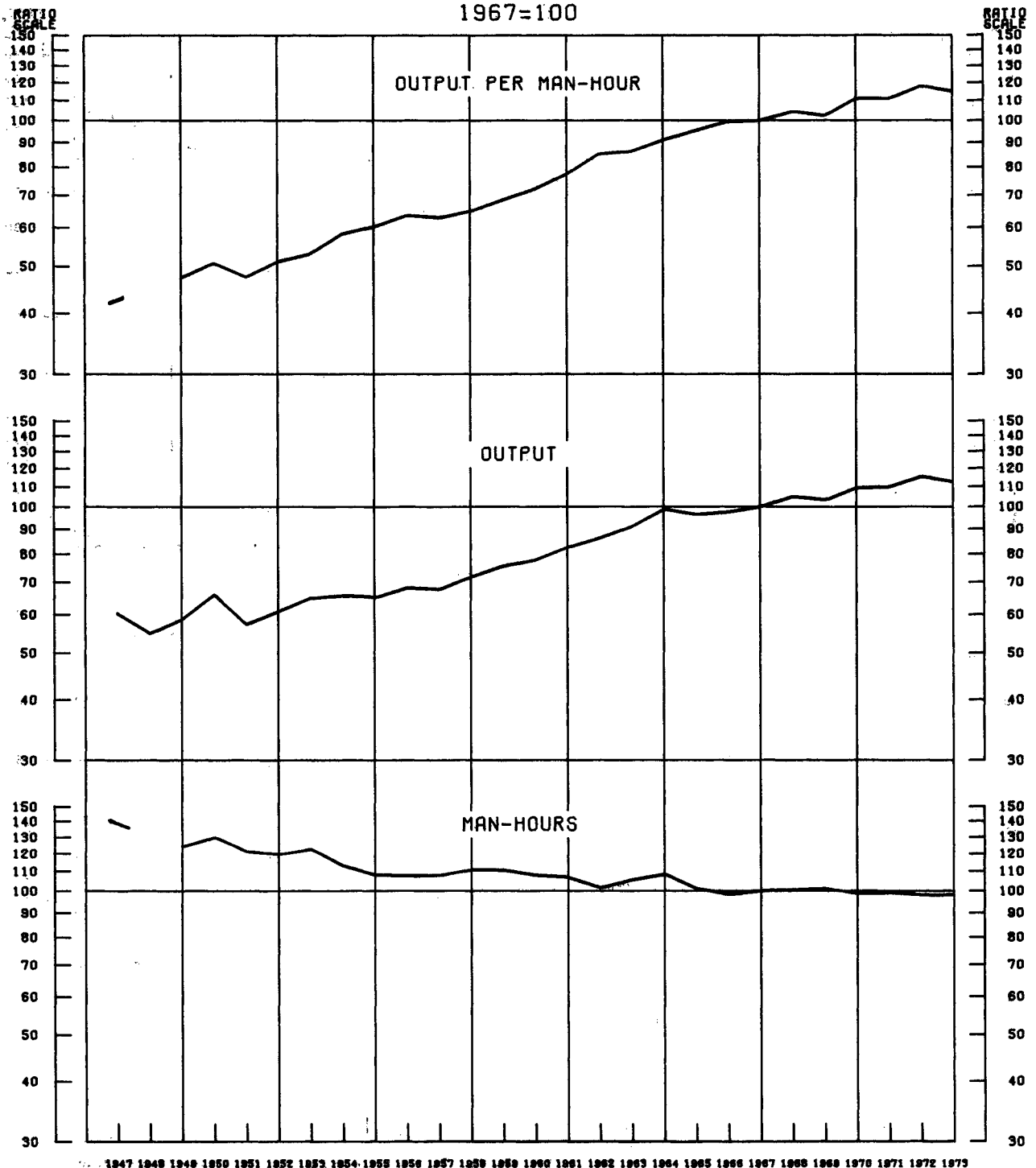
CHART 13
BAKERY PRODUCTS (SIC 205), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

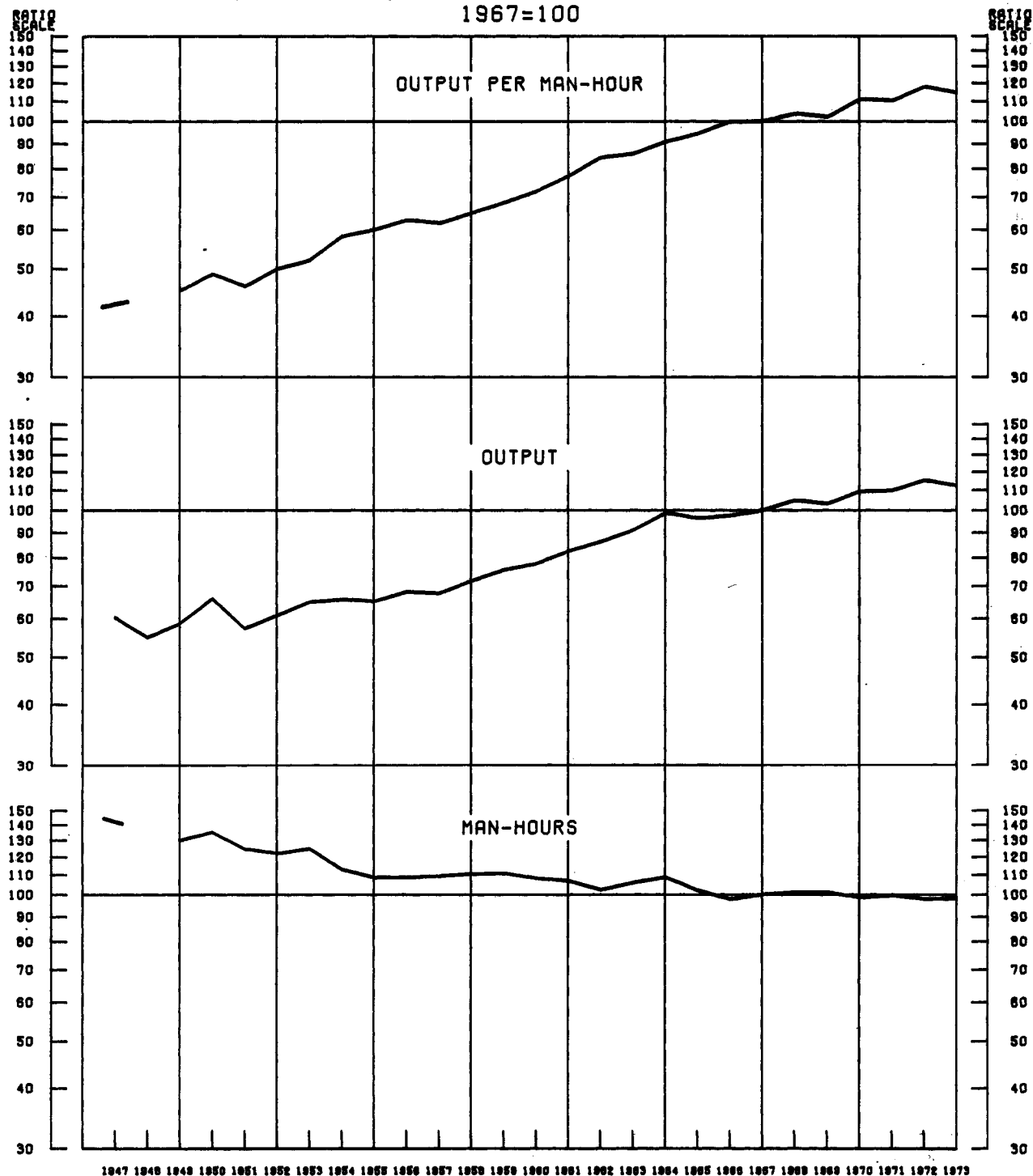
CHART 14
SUGAR (SIC 206), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

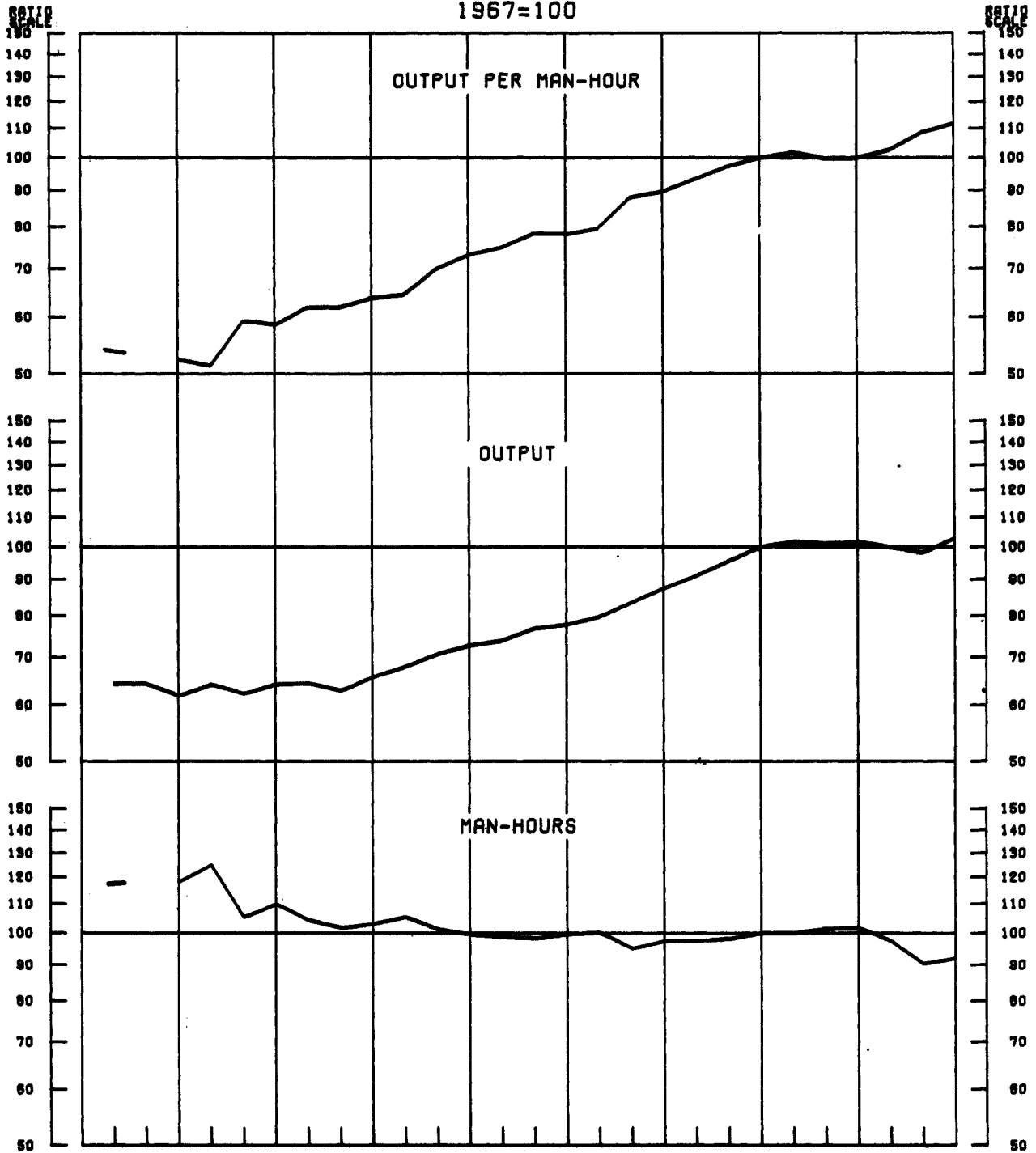
CHART 15
SUGAR (SIC 206), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

CHART 16
CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2071), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100

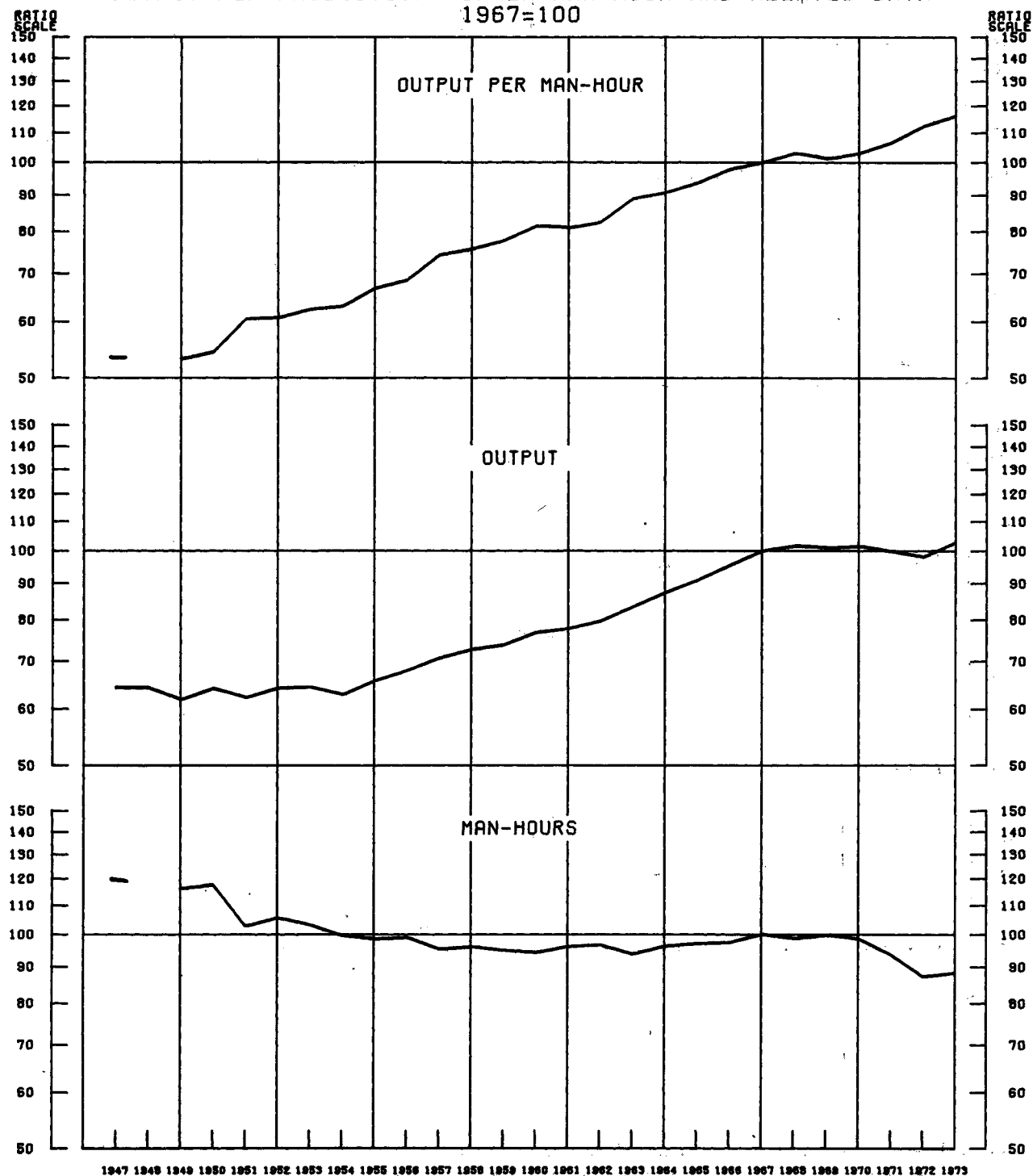


1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973

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

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

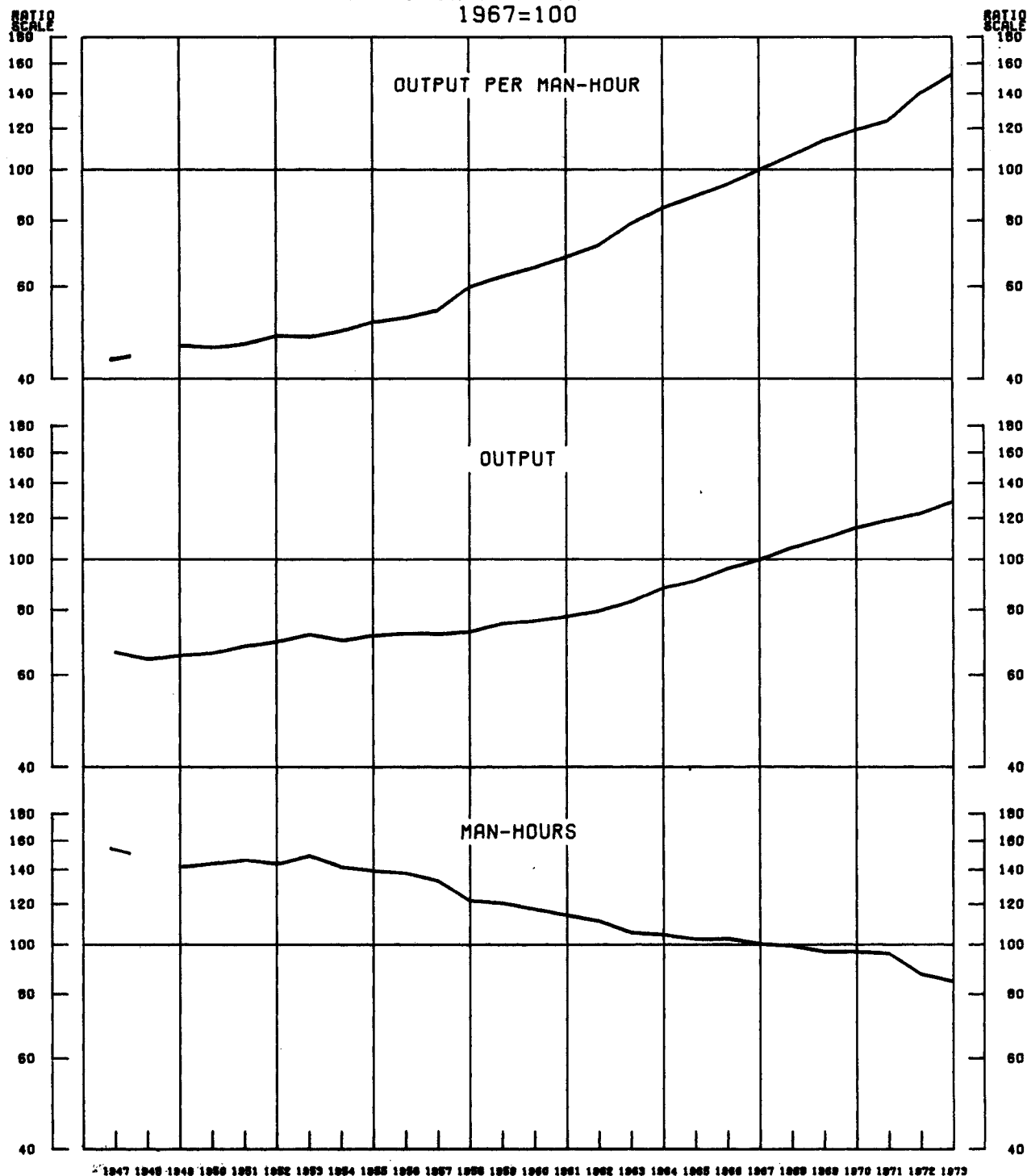
CHART 17
CANDY AND OTHER CONFECTIONERY PRODUCTS (SIC 2071), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

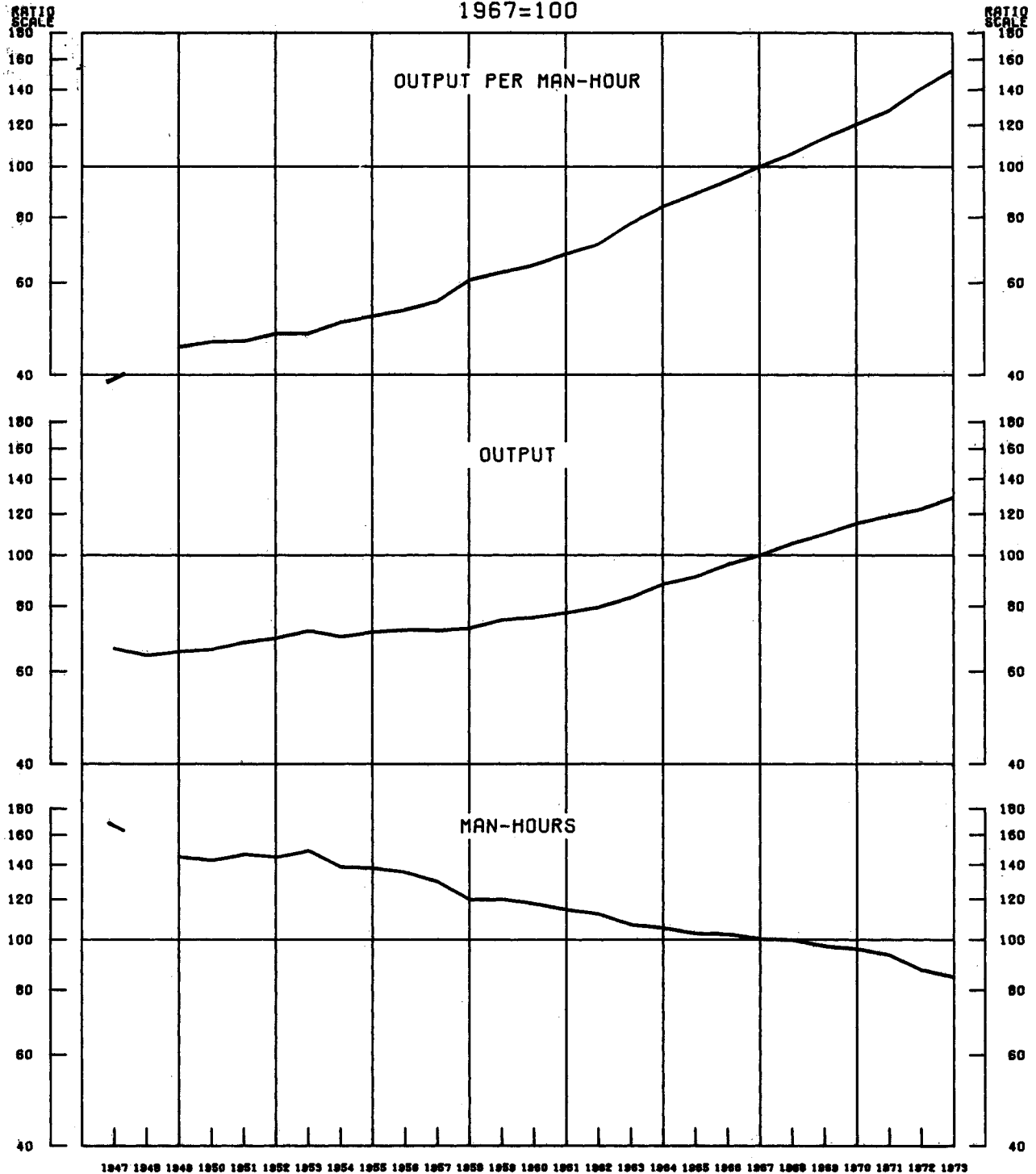
CHART 18
MALT LIQUORS (SIC 2082), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

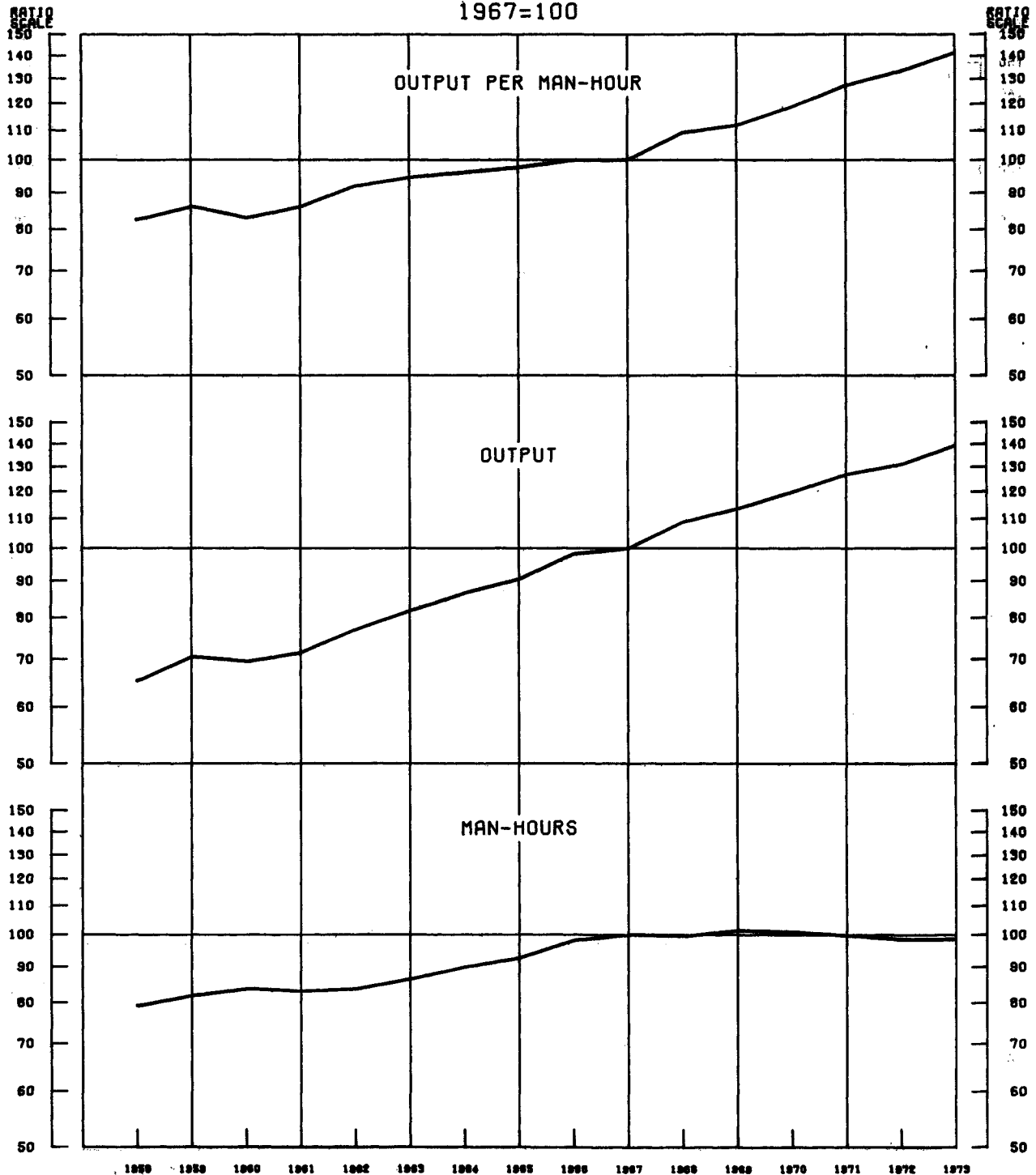
CHART 19
MALT LIQUORS (SIC 2082). 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

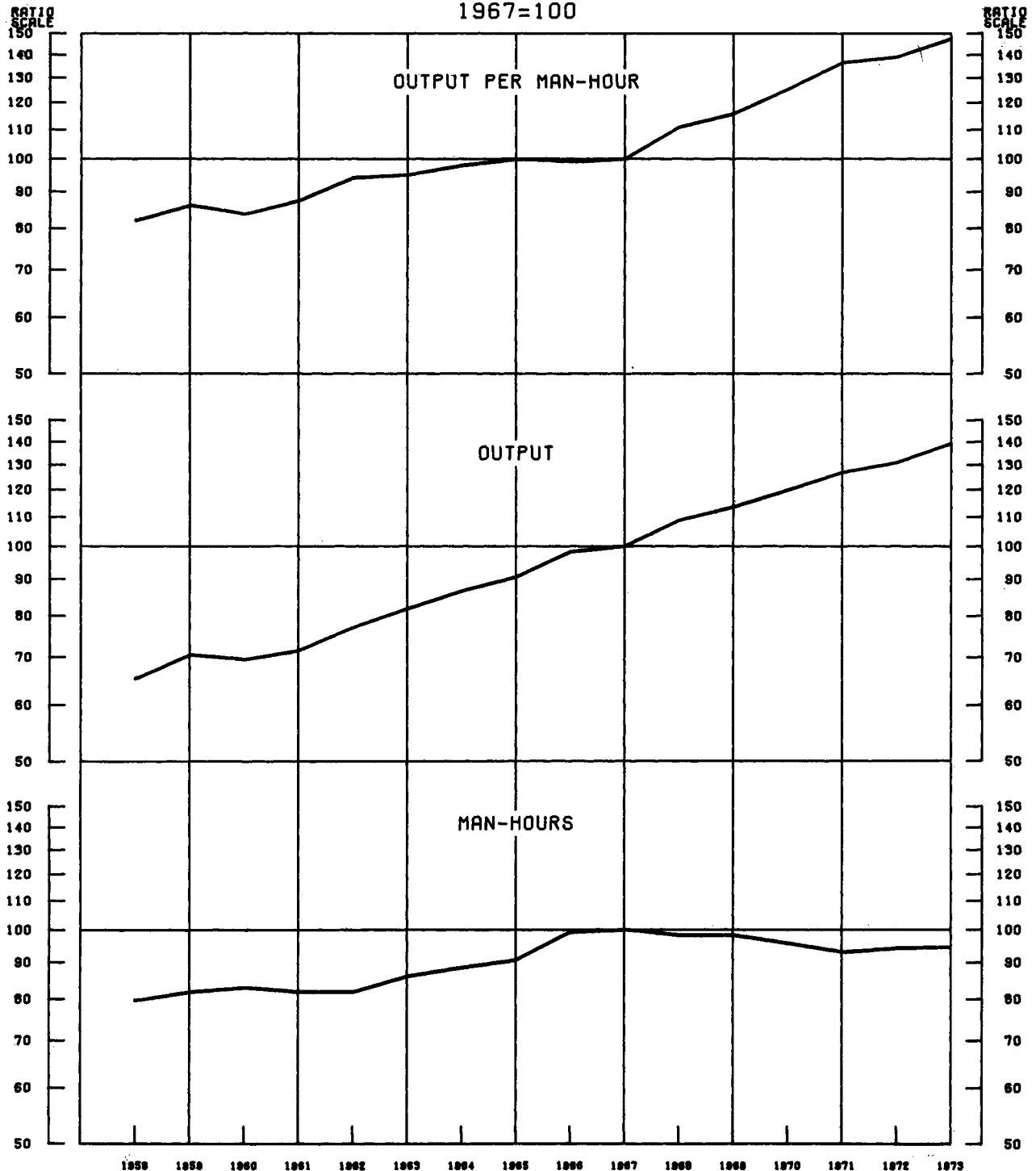
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 20
BOTTLED AND CANNED SOFT DRINKS (SIC 2086), 1958-73
OUTPUT PER EMPLOYEE, MAN-HOUR AND RELATED DATA
1967=100



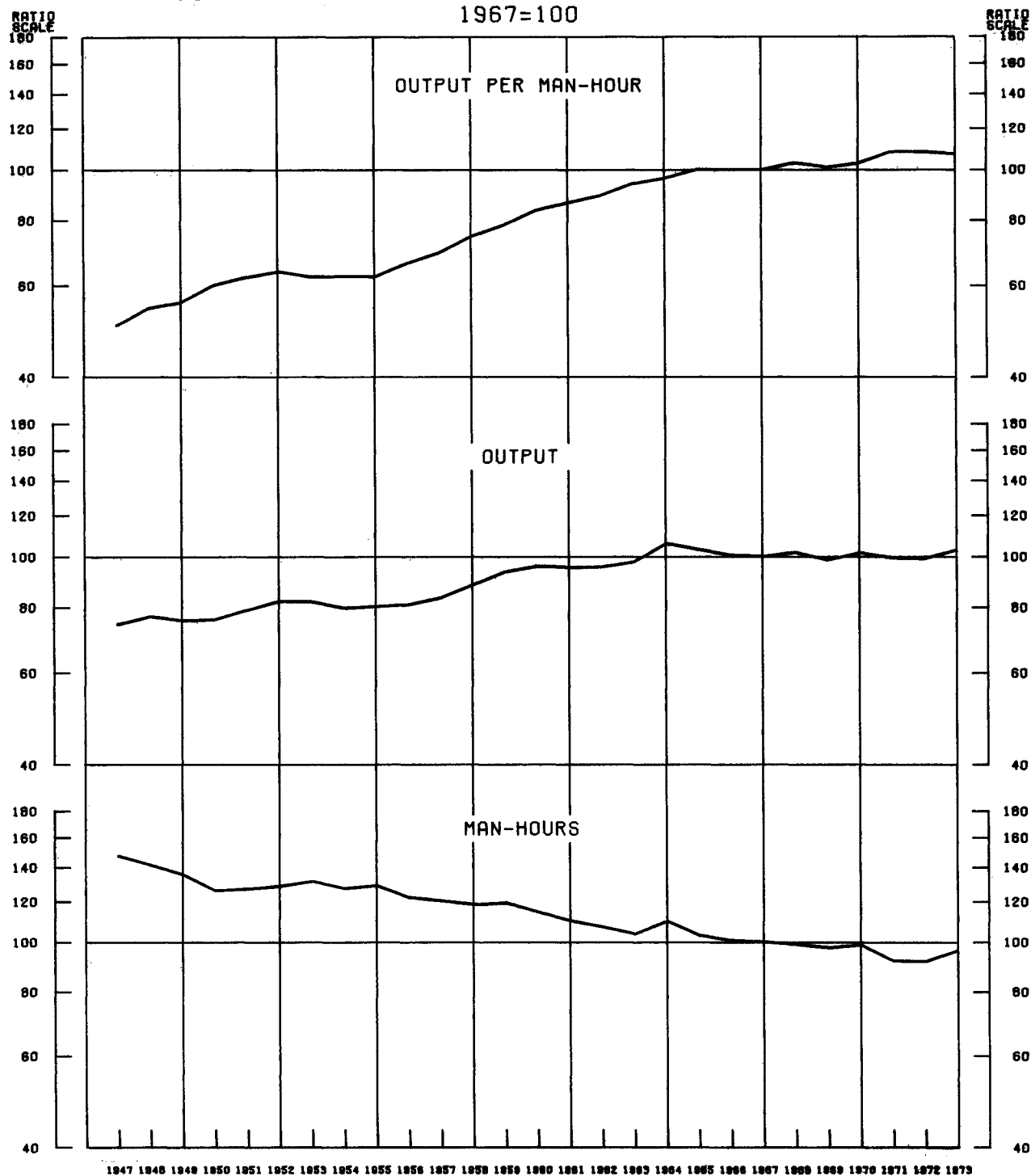
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 21
BOTTLED AND CANNED SOFT DRINKS (SIC 2086), 1958-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



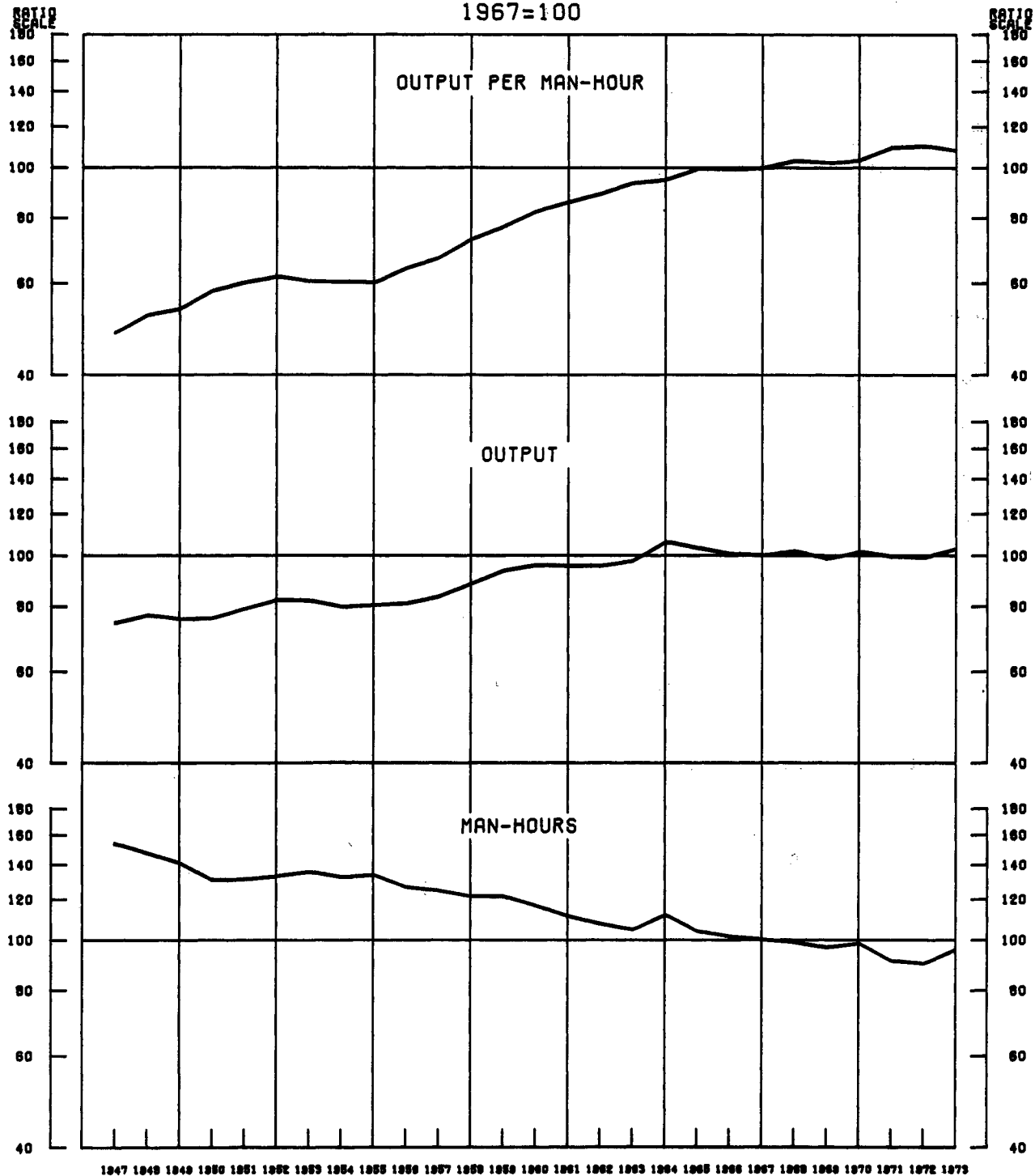
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 22
TOBACCO PRODUCTS-TOTAL (SIC 211, 212, 213), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



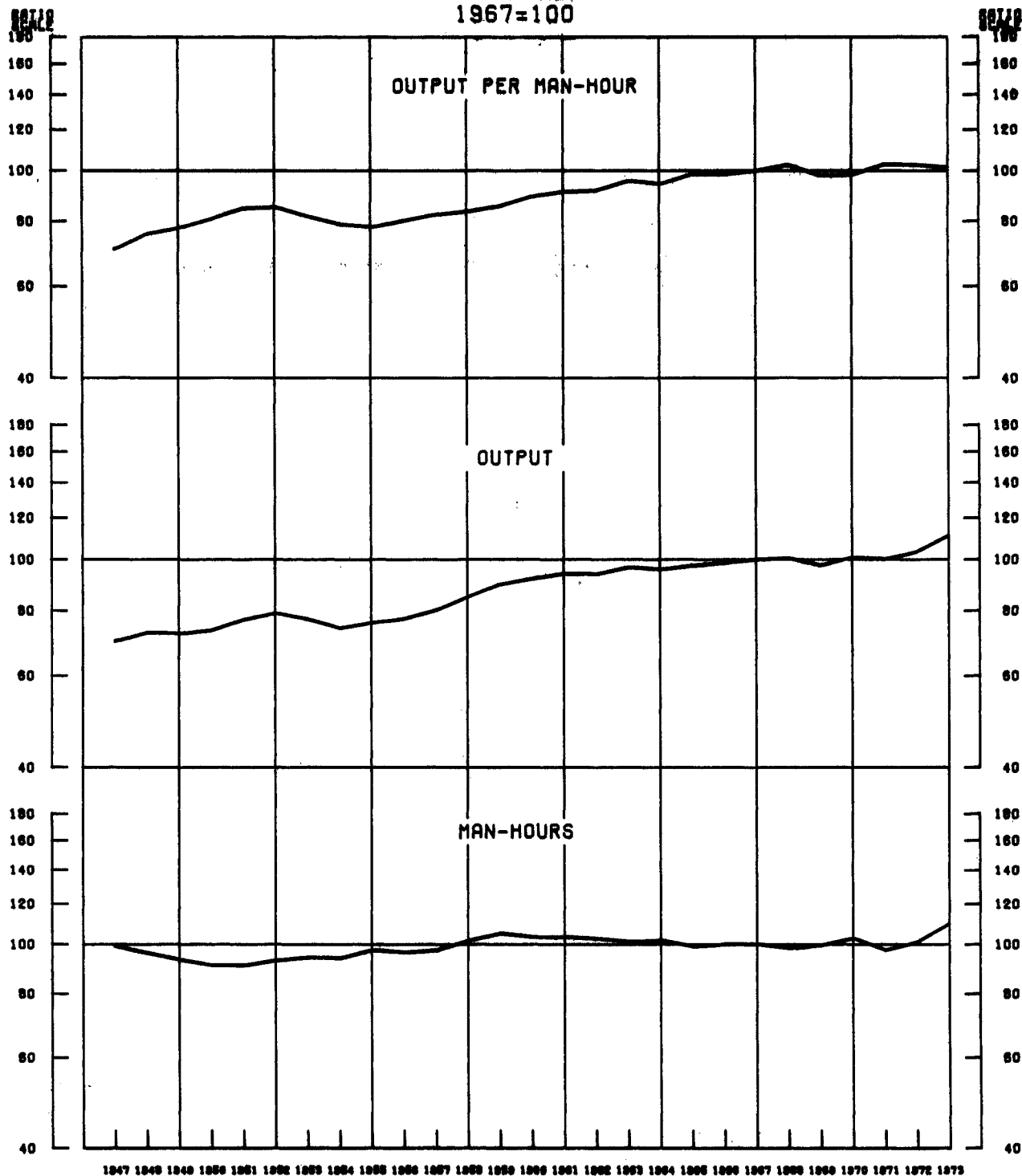
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 23
TOBACCO PRODUCTS-TOTAL (SIC 211, 212, 213), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



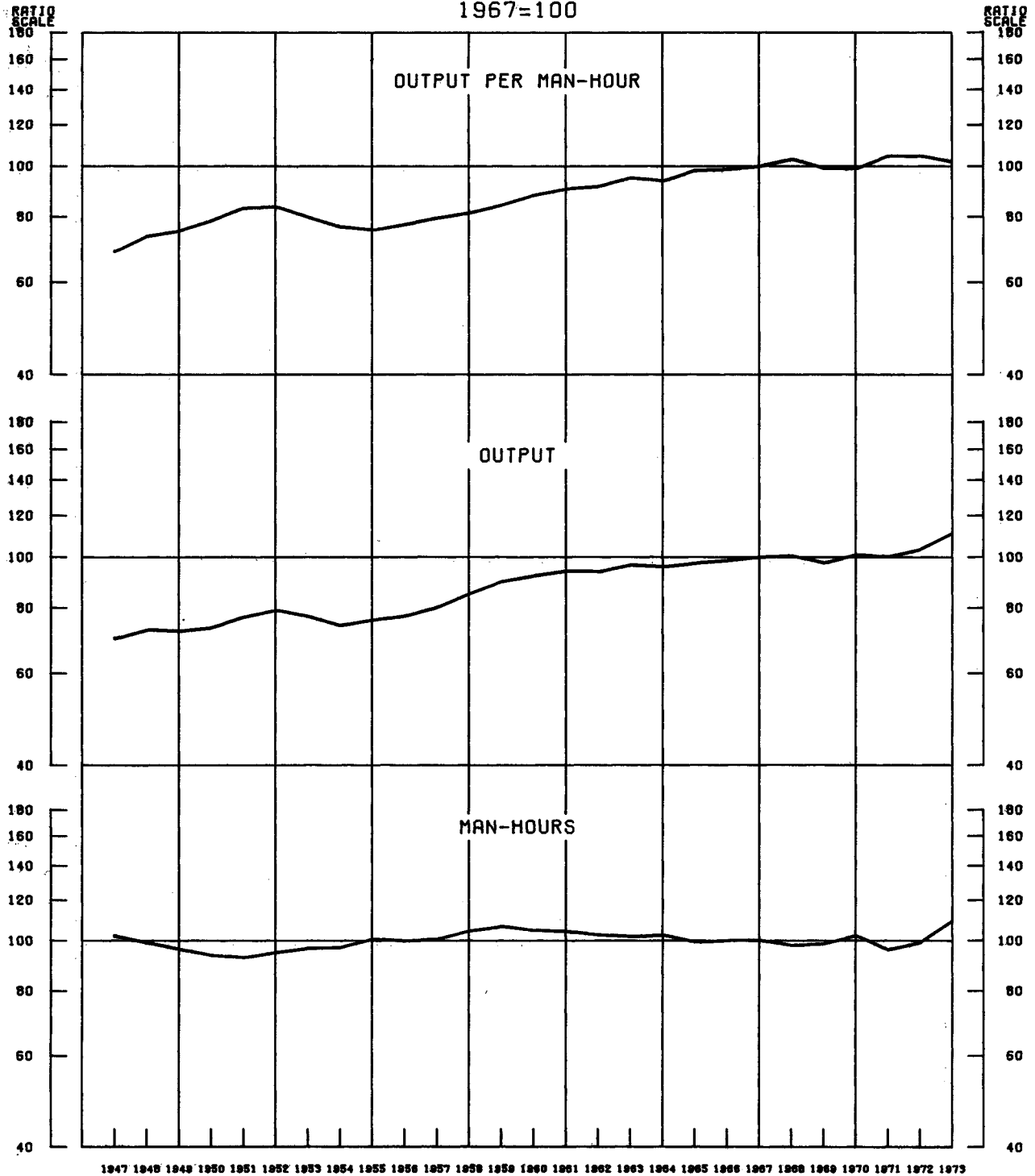
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 24
CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 211, 213), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



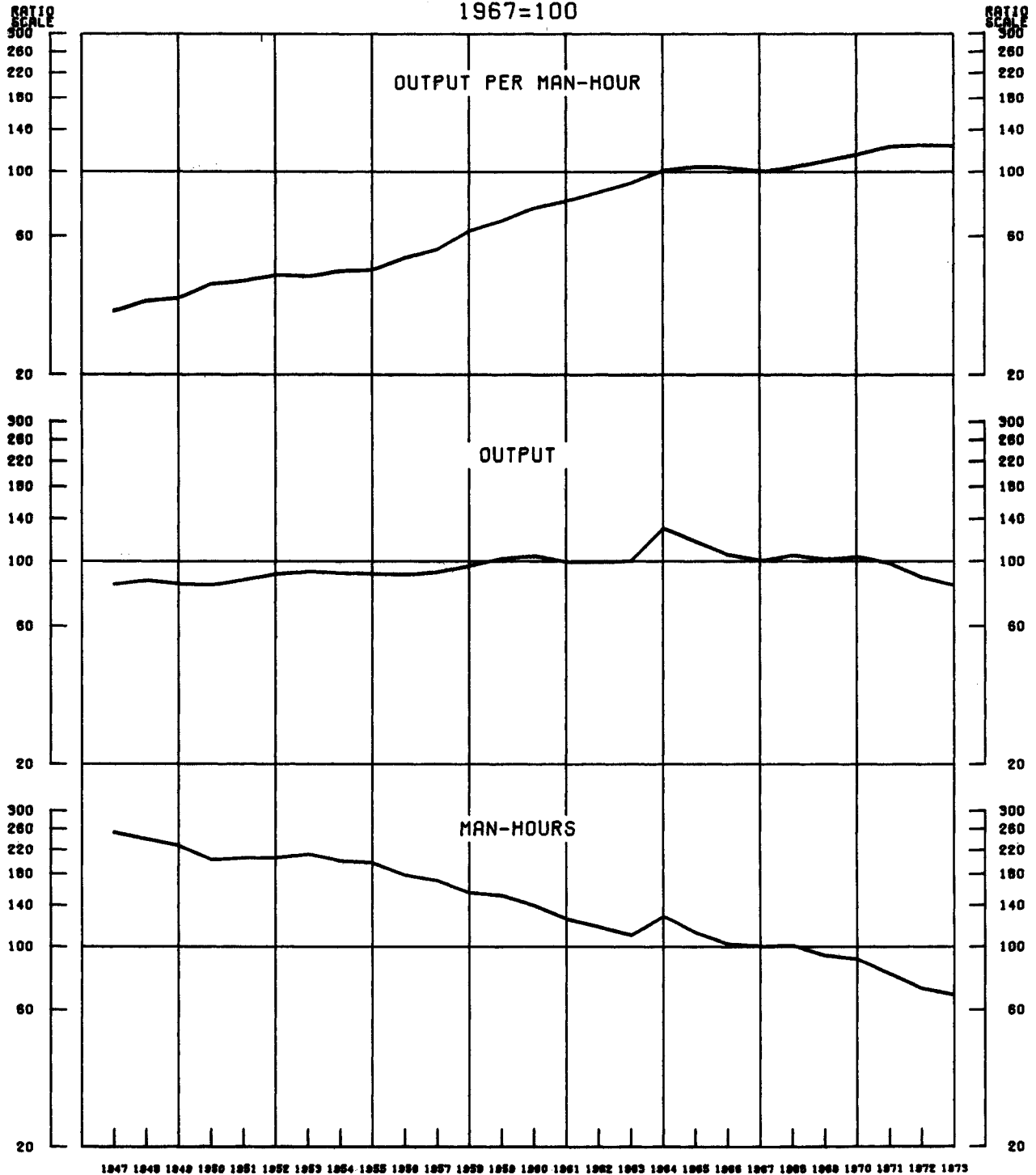
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 25
CIGARETTES, CHEWING AND SMOKING TOBACCO (SIC 211, 213), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



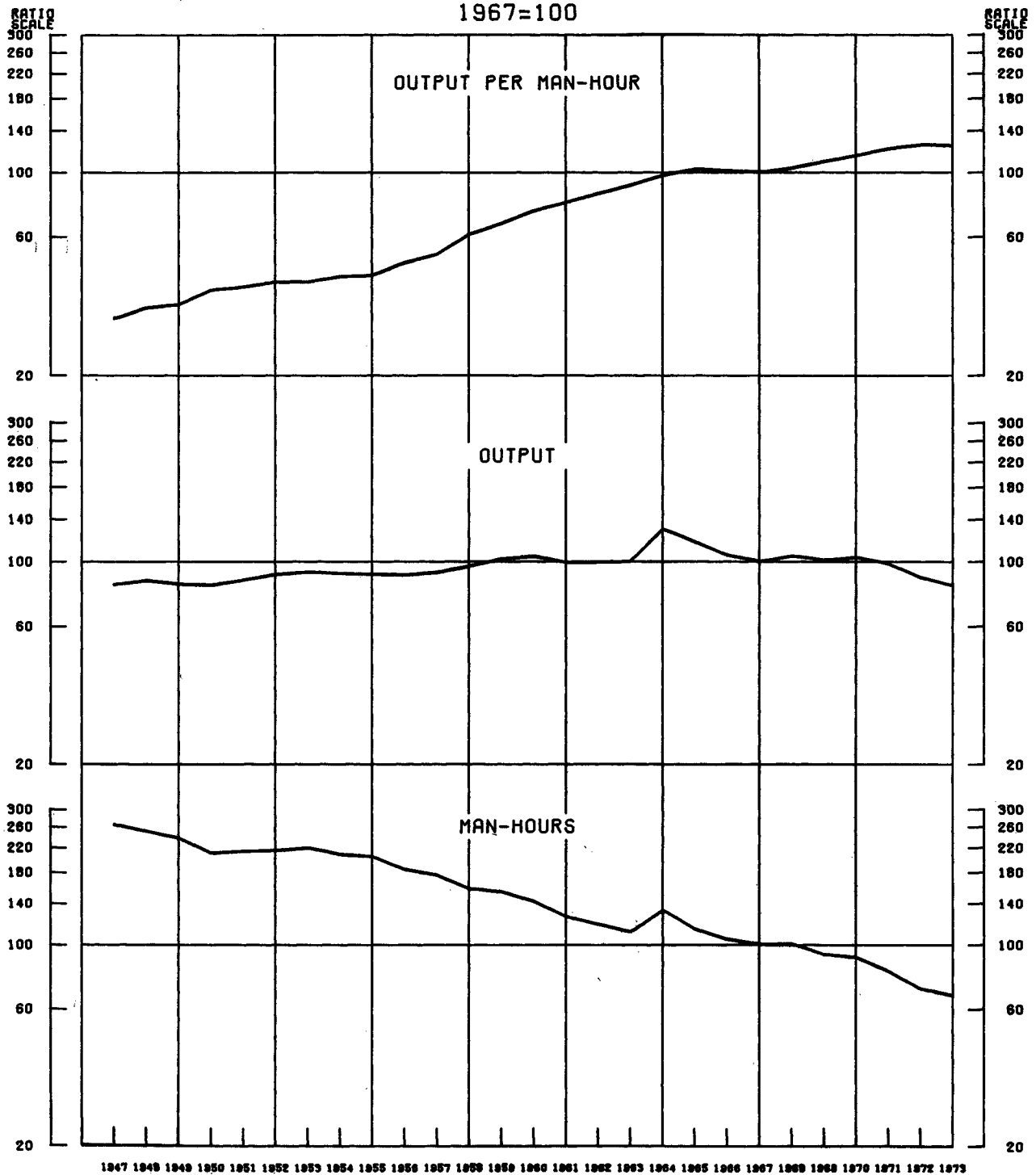
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 26
CIGARS (SIC 212), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



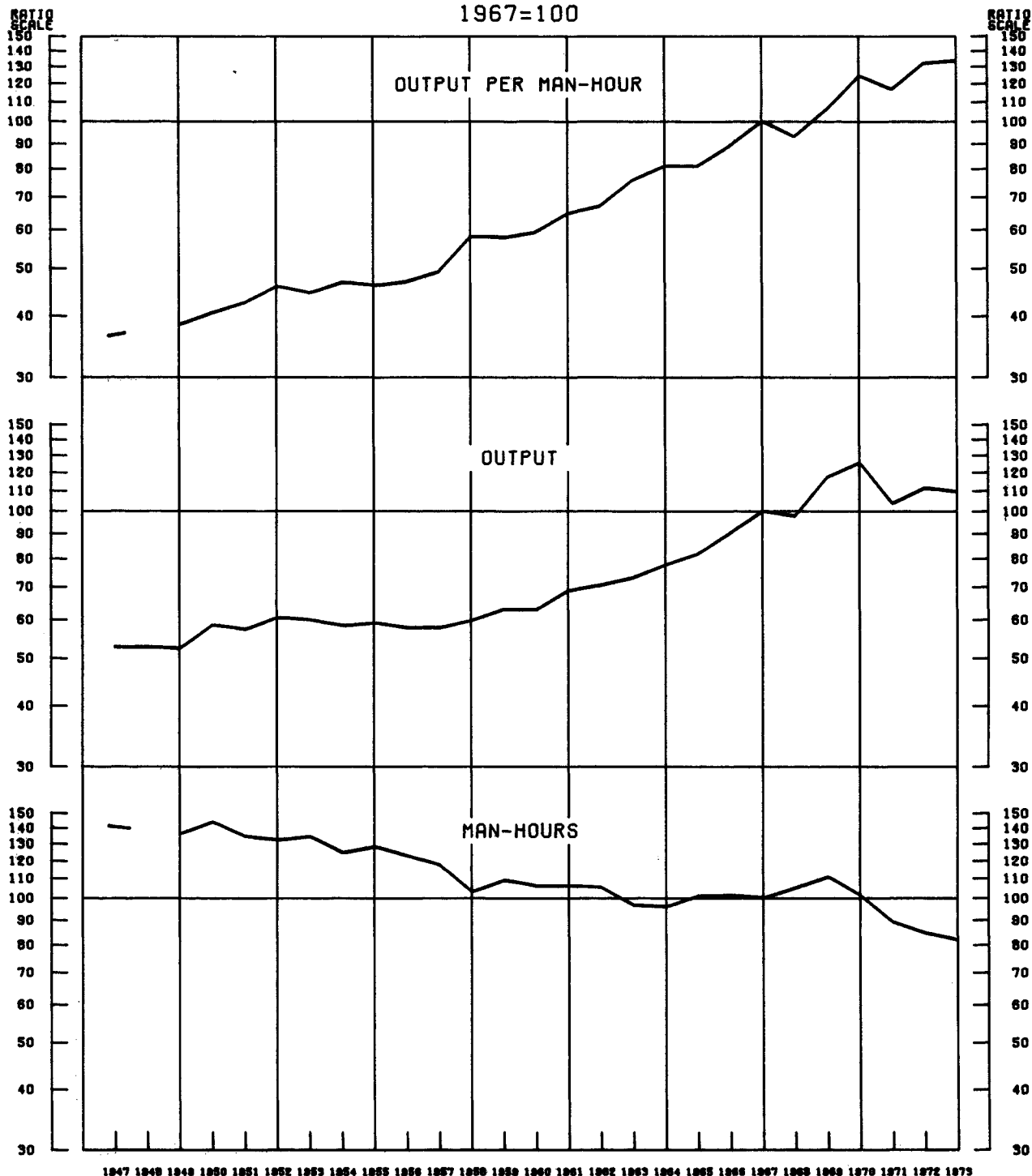
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 27
CIGARS (SIC 212), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

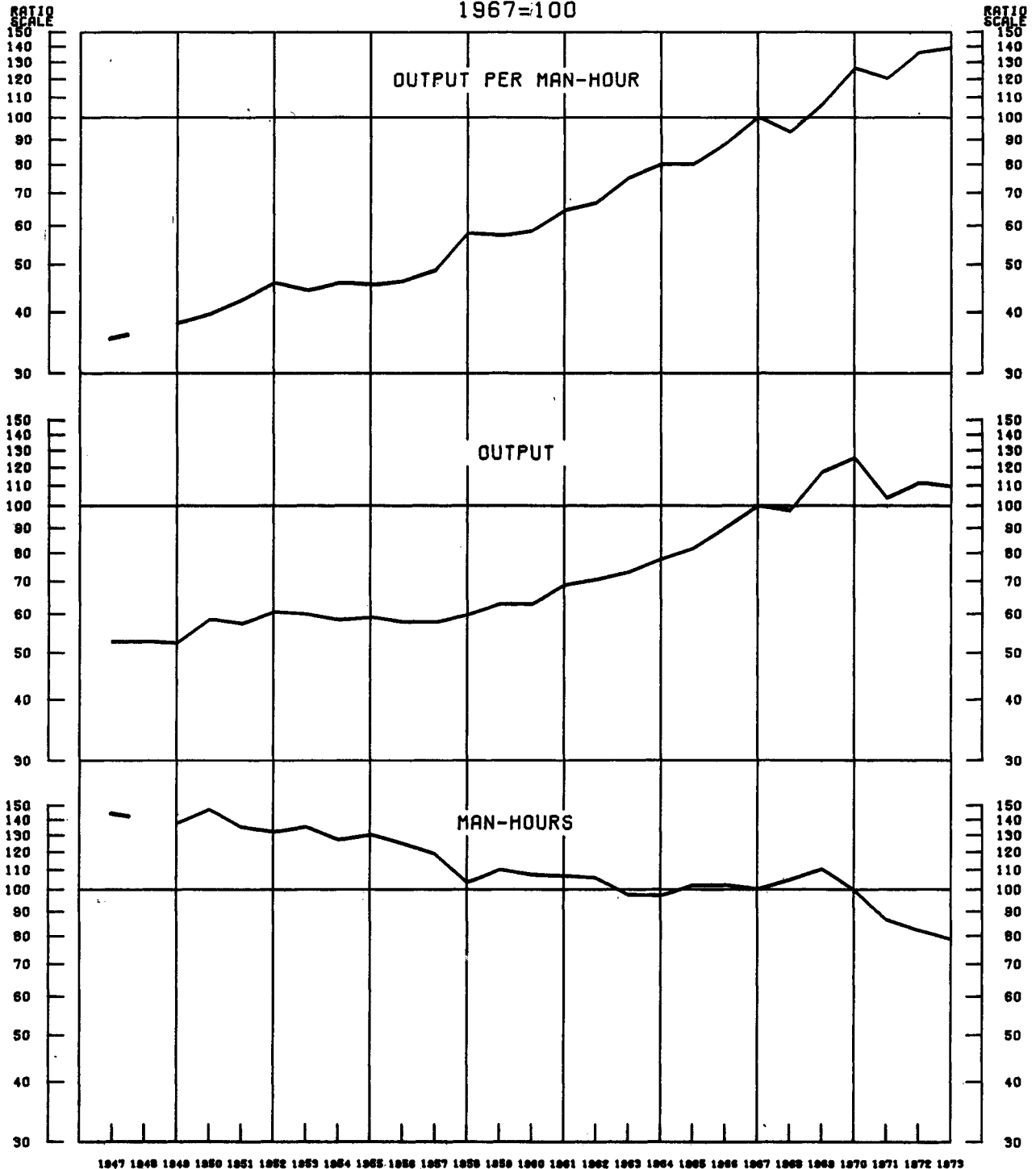
CHART 28
HOSIERY (SIC 2251, 2252), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

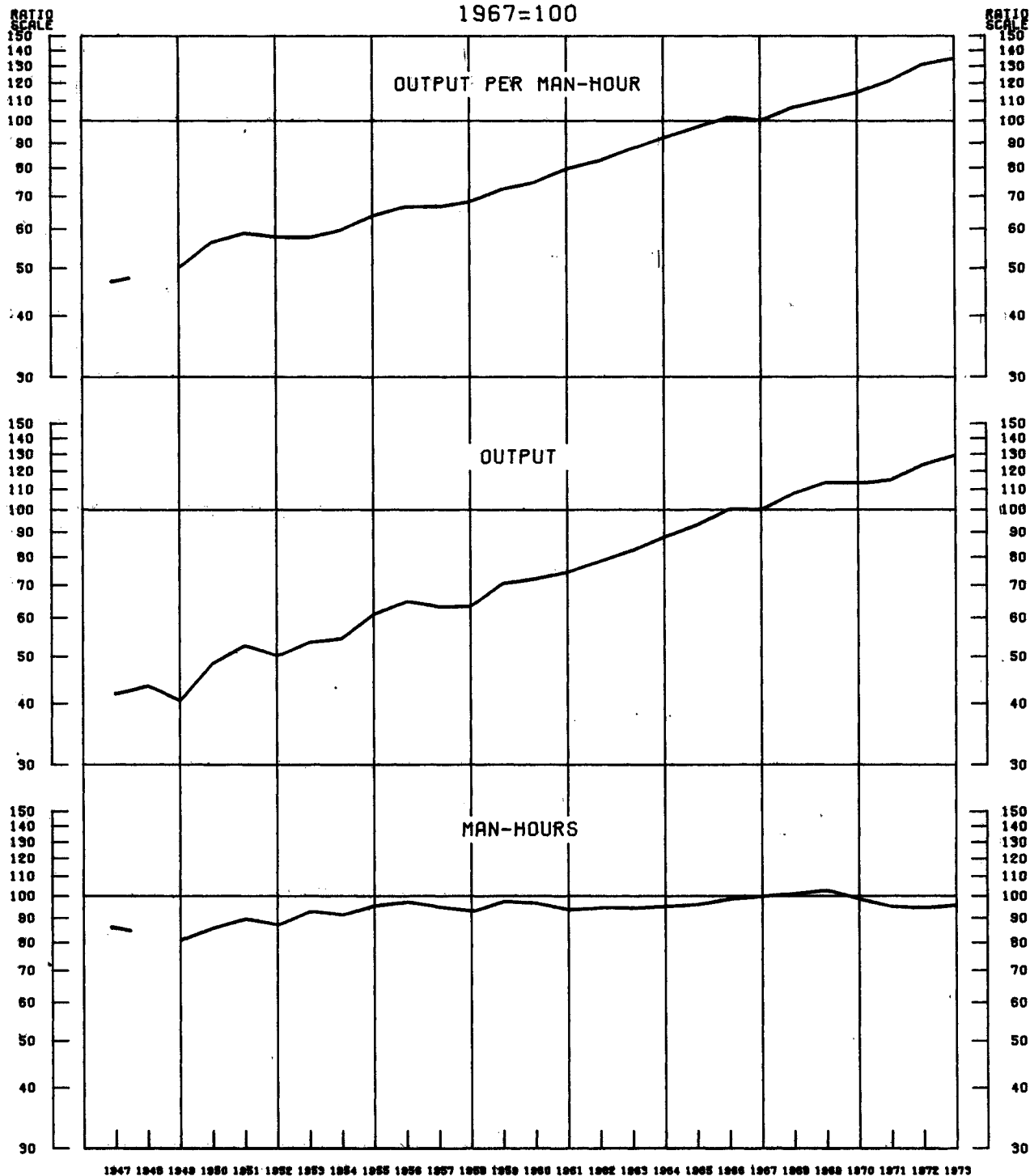
CHART 29
HOSIERY (SIC 2251, 2252), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

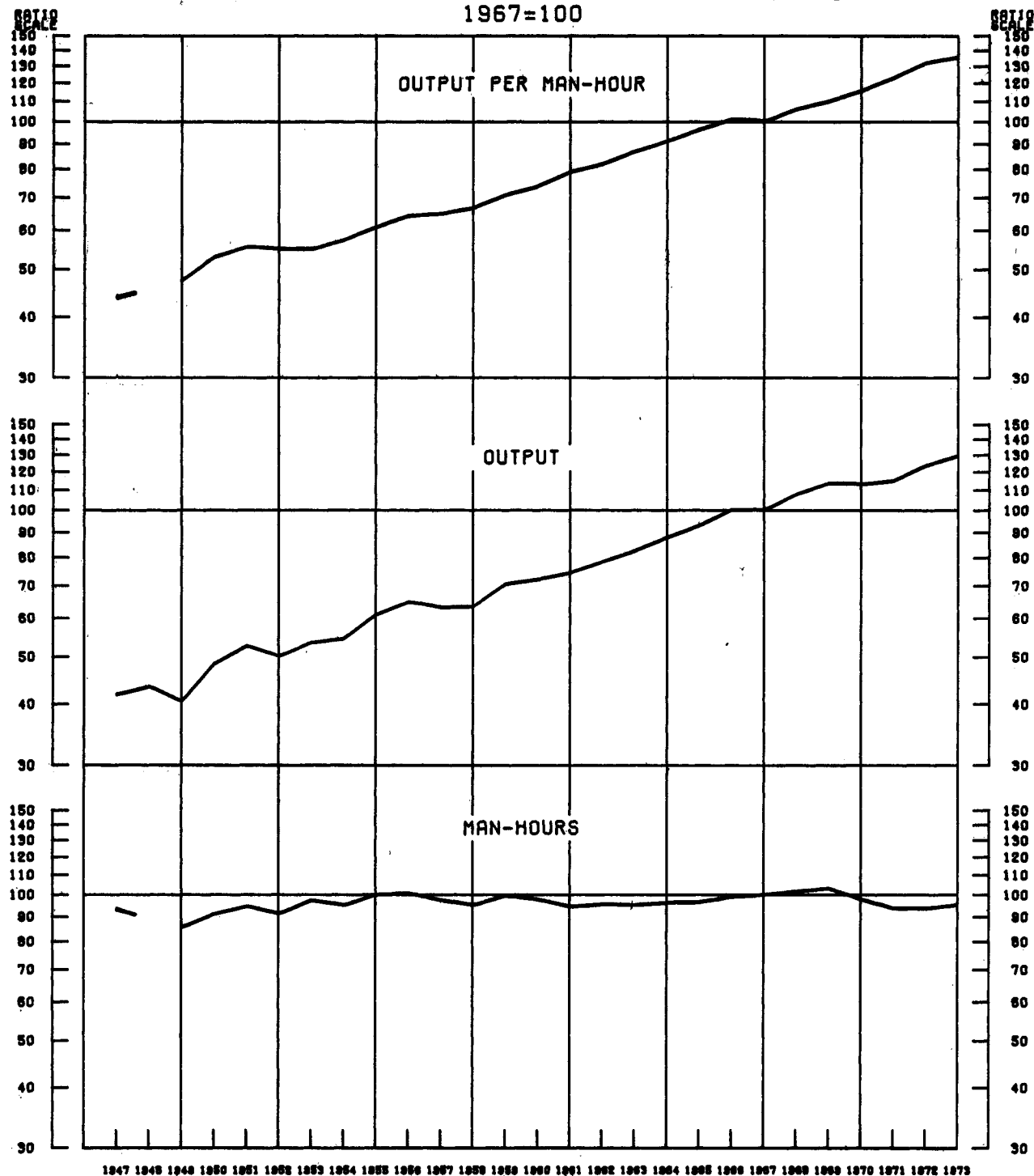
CHART 30
PAPER, PAPERBOARD AND PULP MILLS (SIC 261, 262, 263, 266), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

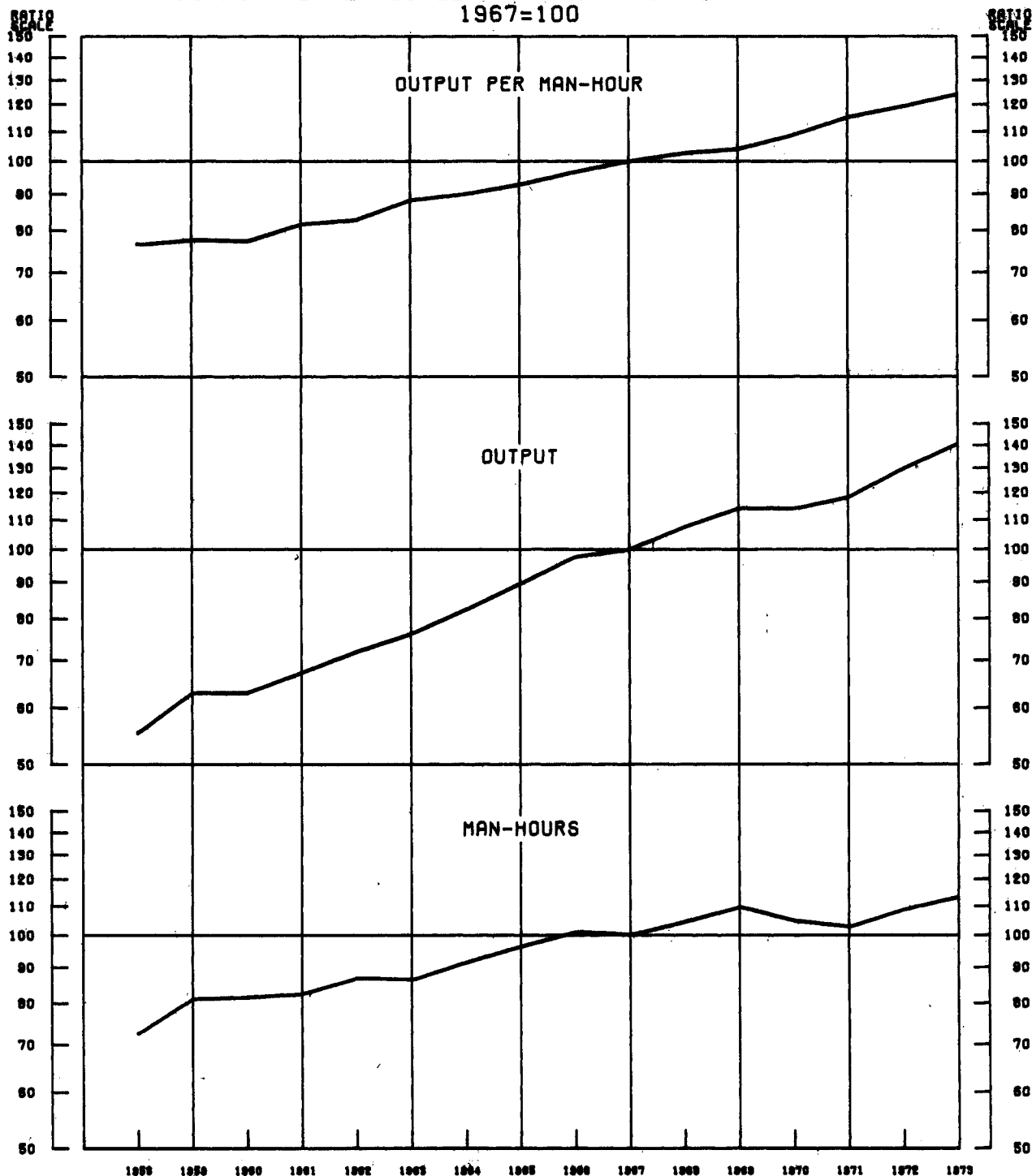
CHART 31
PAPER, PAPERBOARD AND PULP MILLS (SIC 261, 262, 263, 266), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

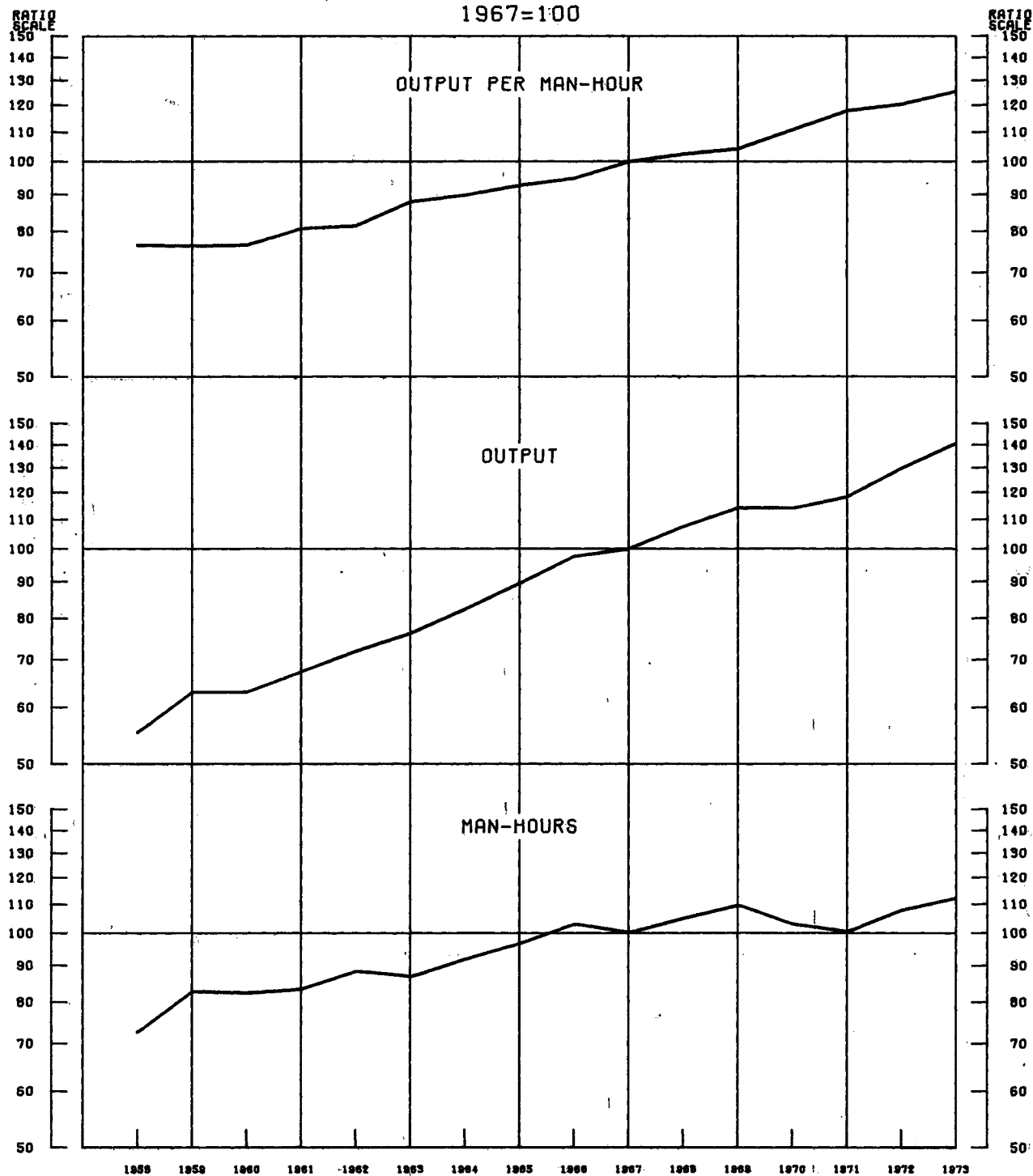
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 32
 CORRUGATED AND SOLID FIBER BOXES (SIC 2653), 1958-73
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



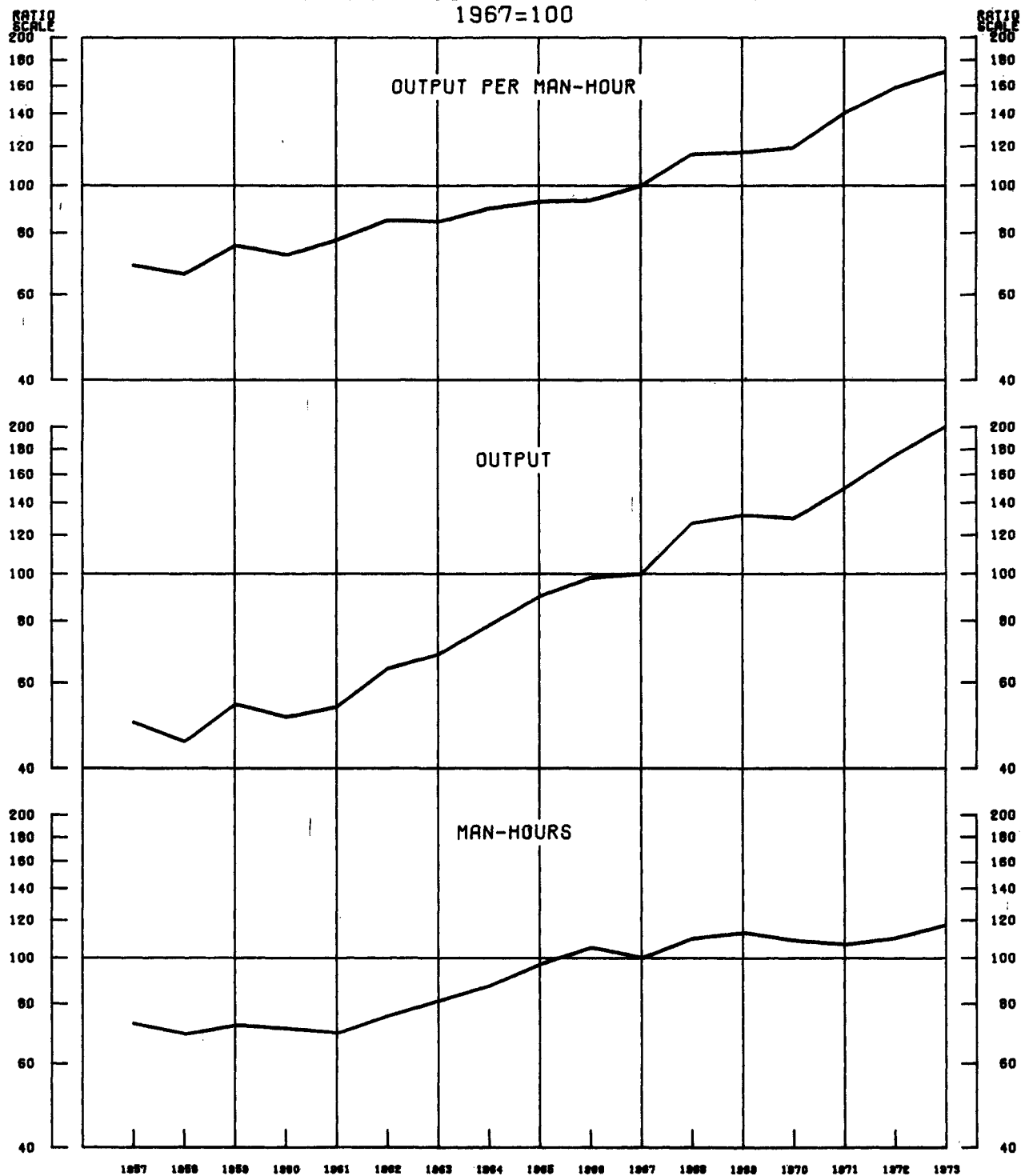
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 33
 CORRUGATED AND SOLID FIBER BOXES (SIC 2653), 1958-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



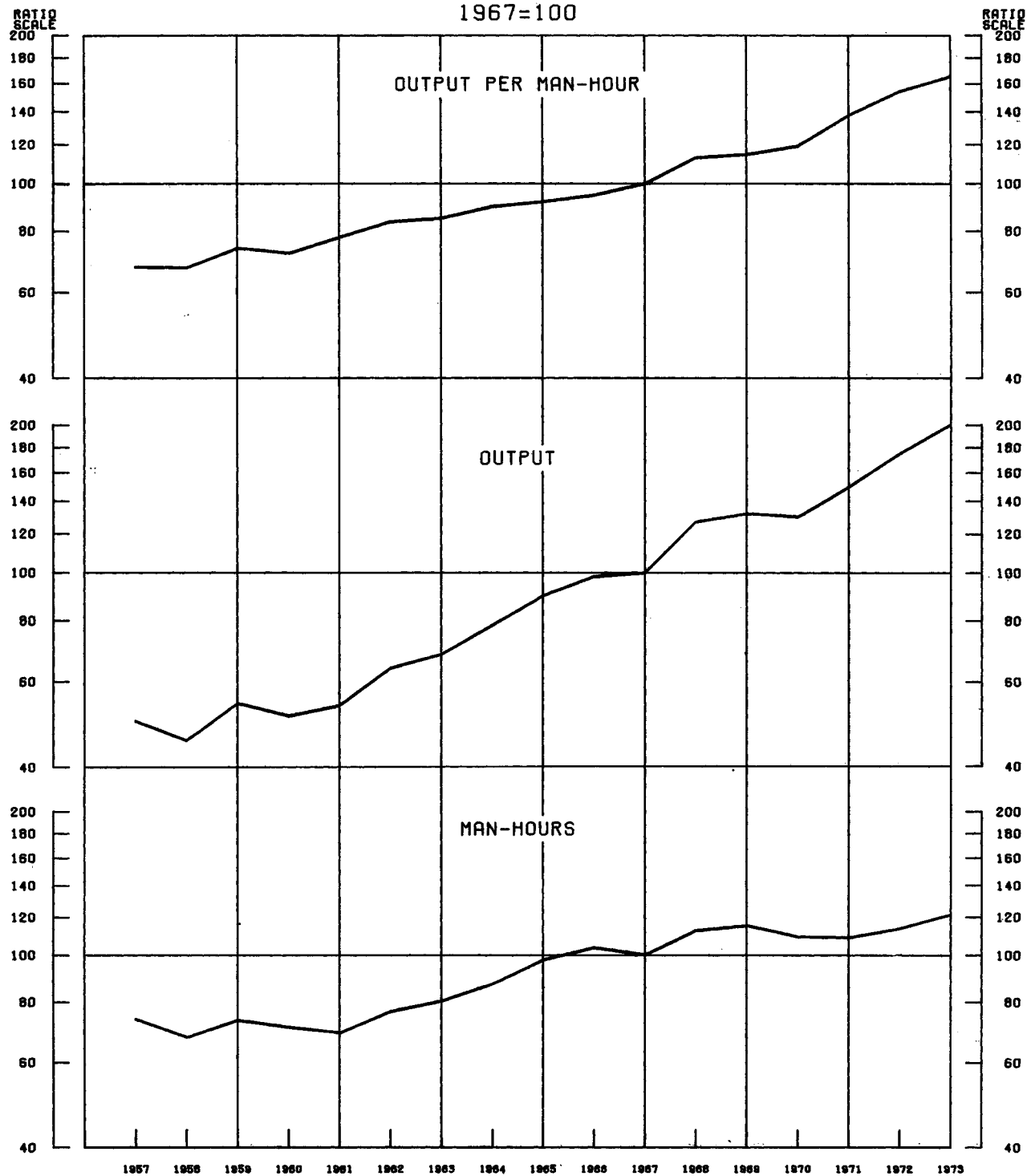
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 34
MAN-MADE FIBERS (SIC 2823, 2824), 1957-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



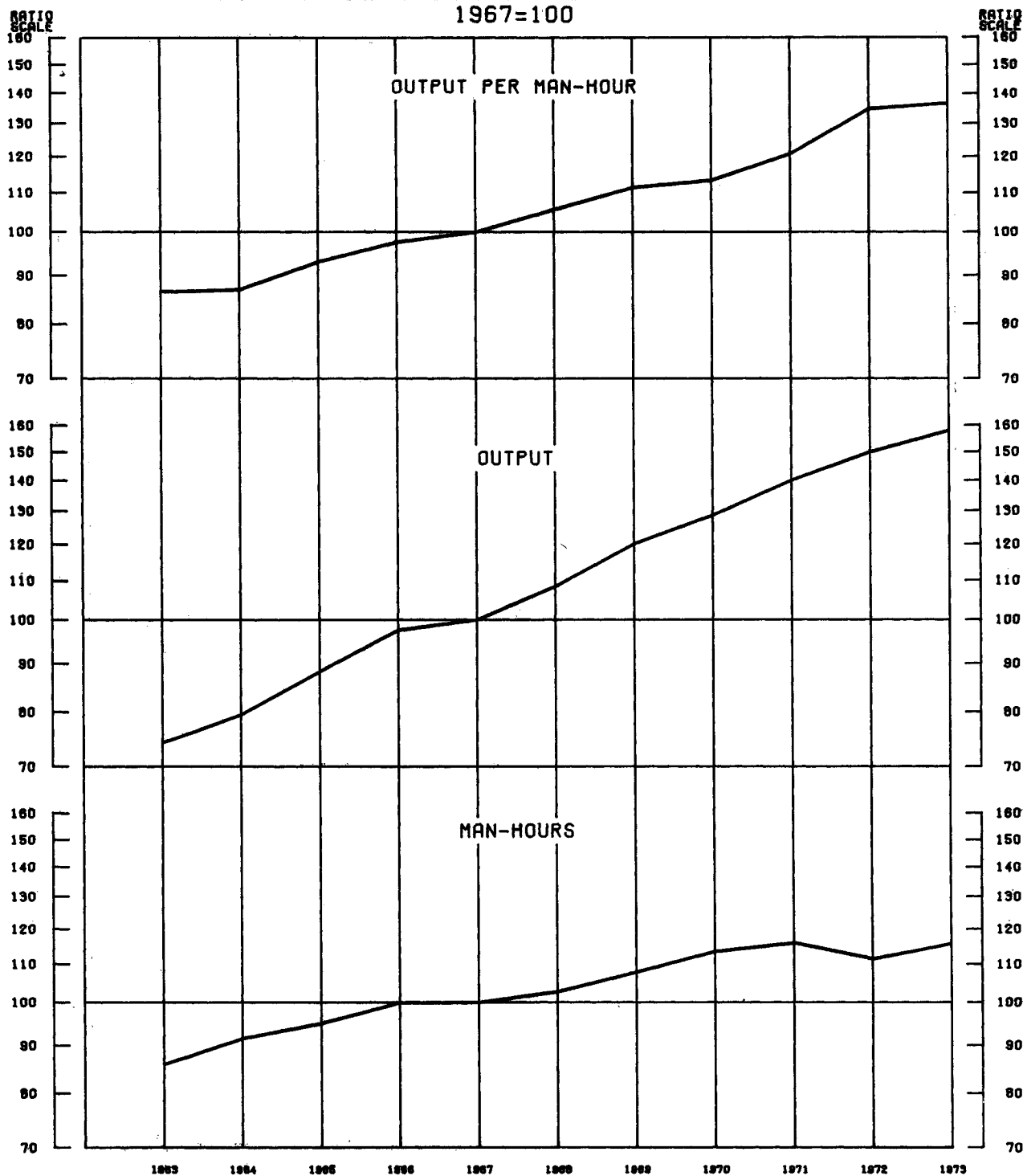
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 35
MAN-MADE FIBERS (SIC 2823, 2824), 1957-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



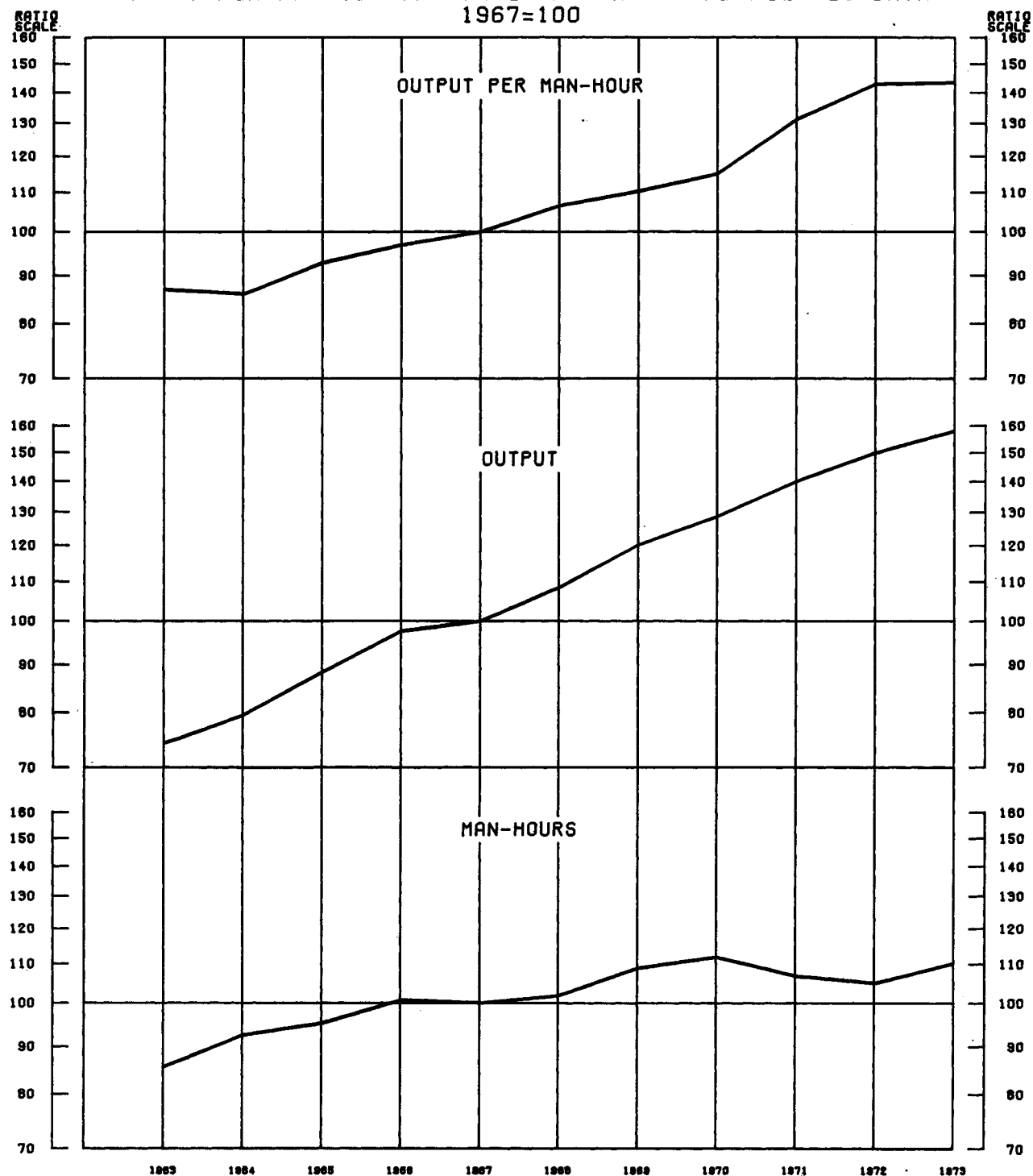
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 36
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-73
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



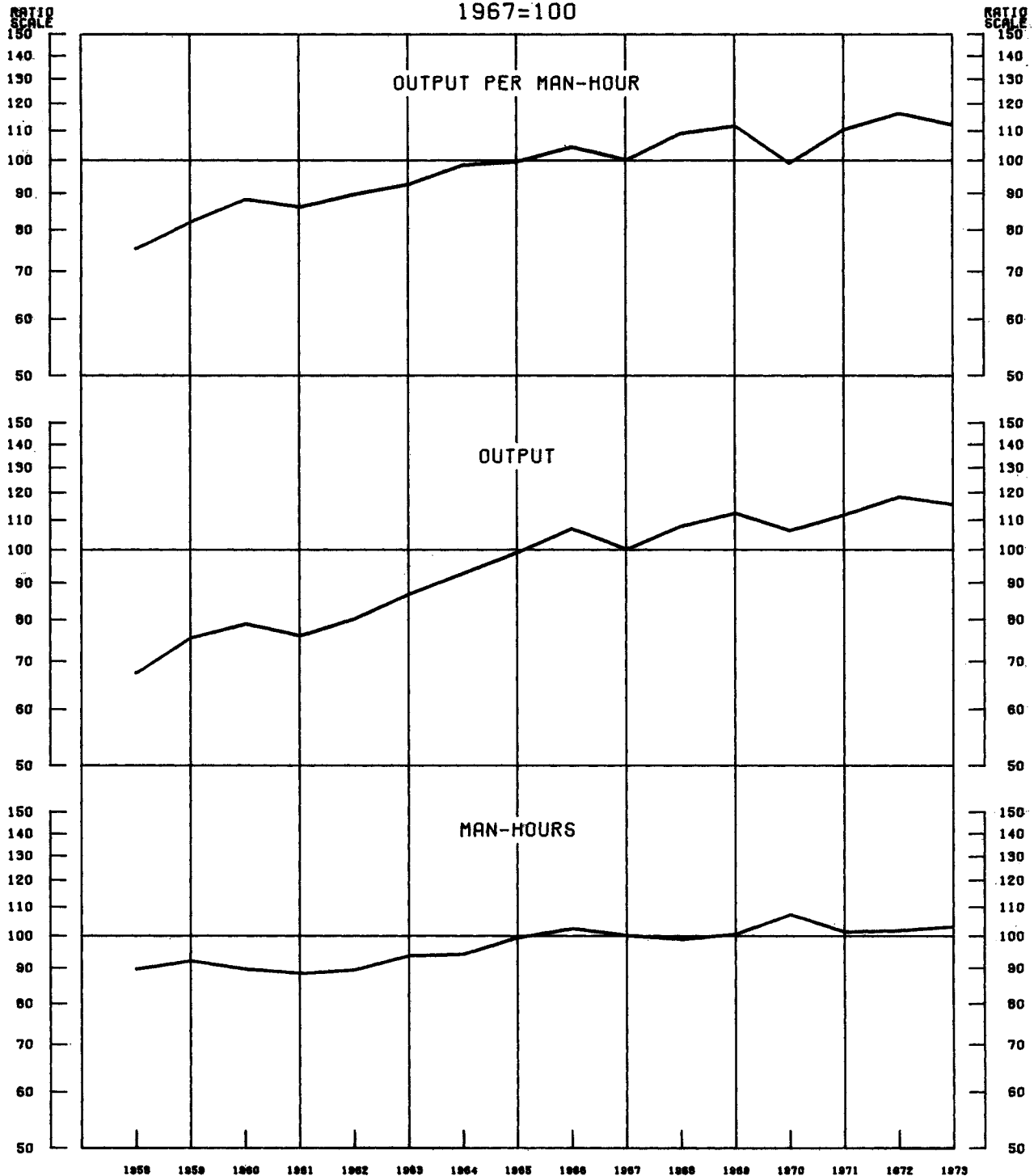
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 37
 PHARMACEUTICAL PREPARATIONS (SIC 2834), 1963-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



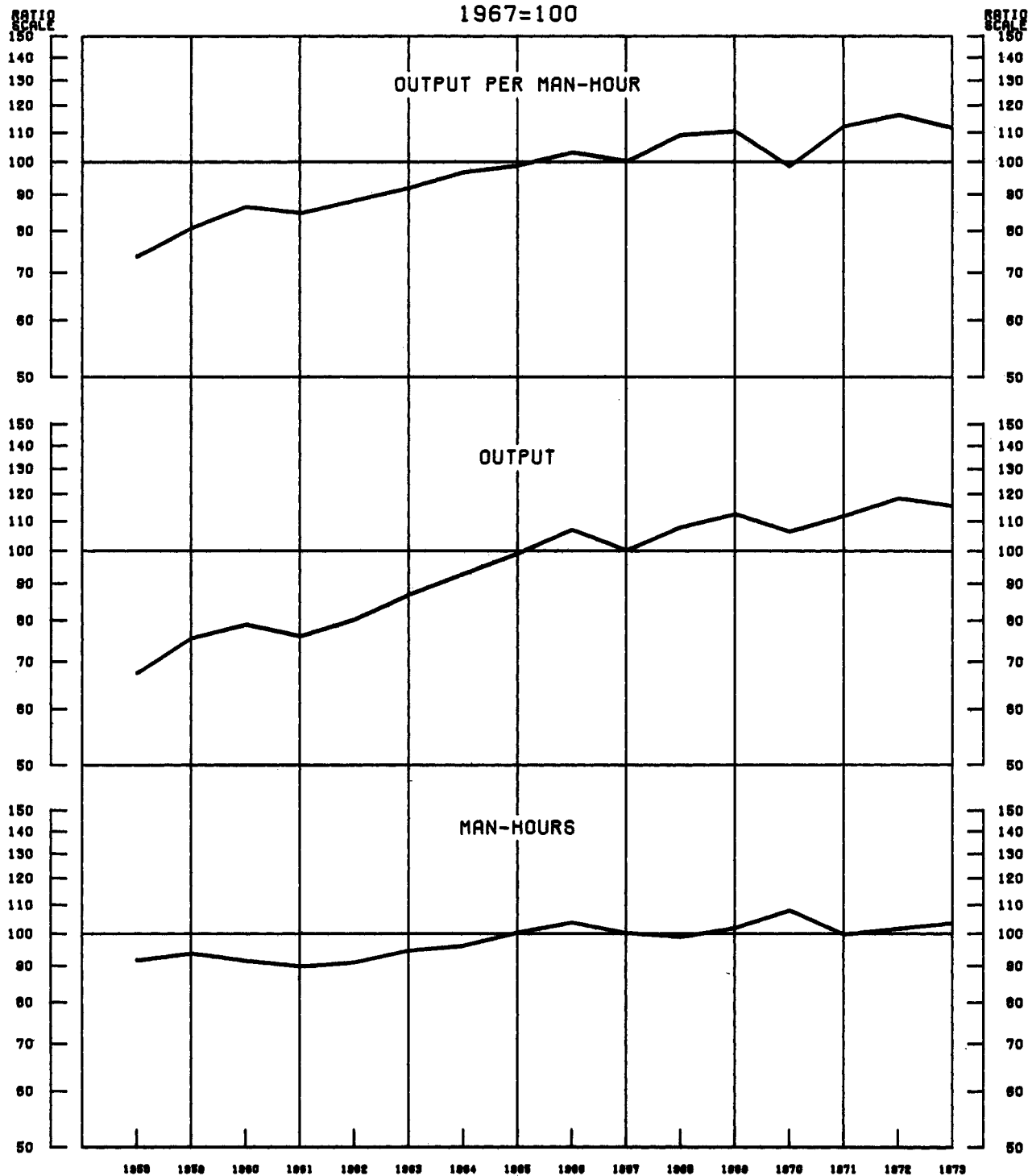
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 38
 PAINTS AND ALLIED PRODUCTS (SIC 285), 1958-73
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



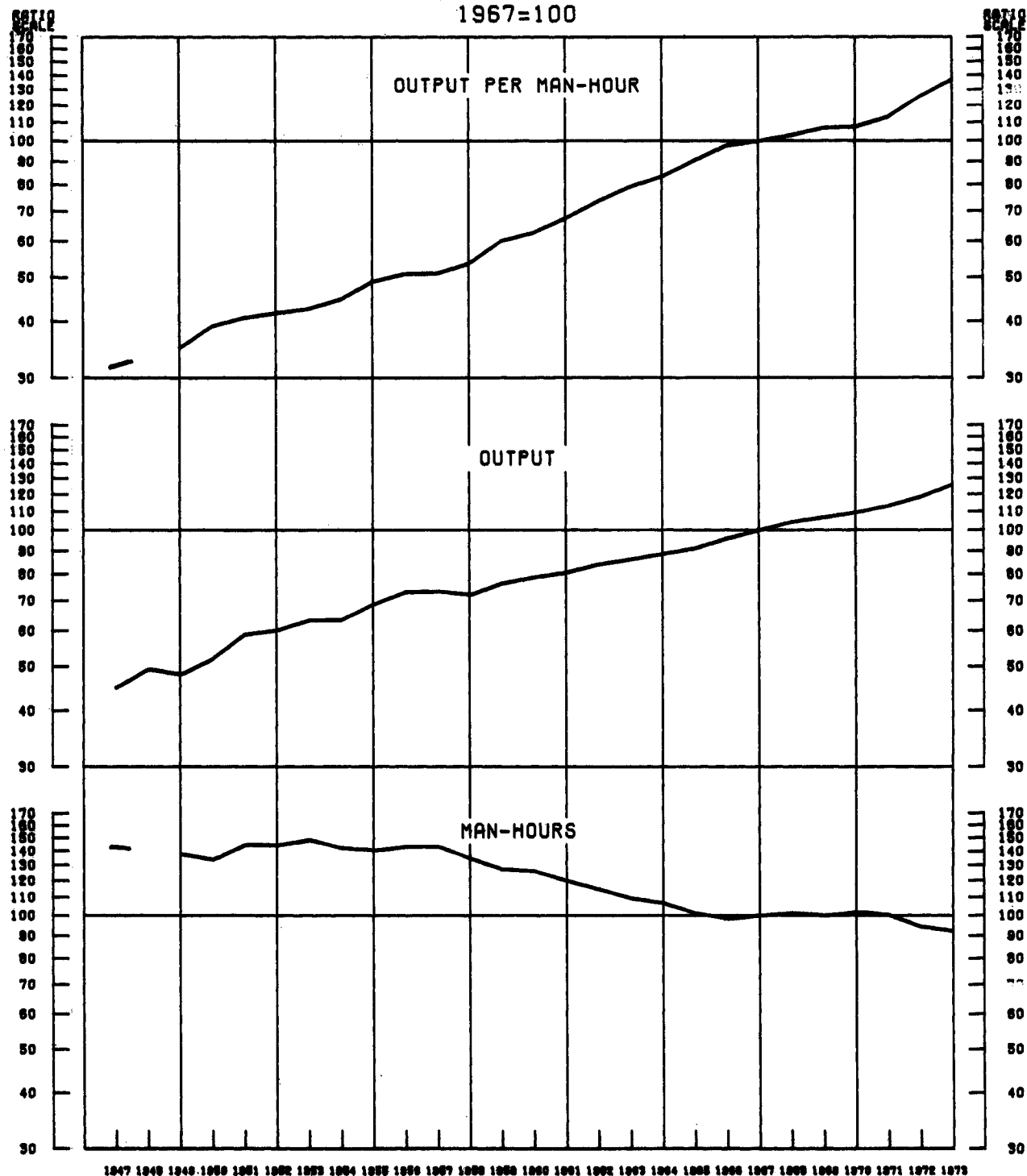
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 39
 PAINTS AND ALLIED PRODUCTS (SIC 285), 1958-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



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

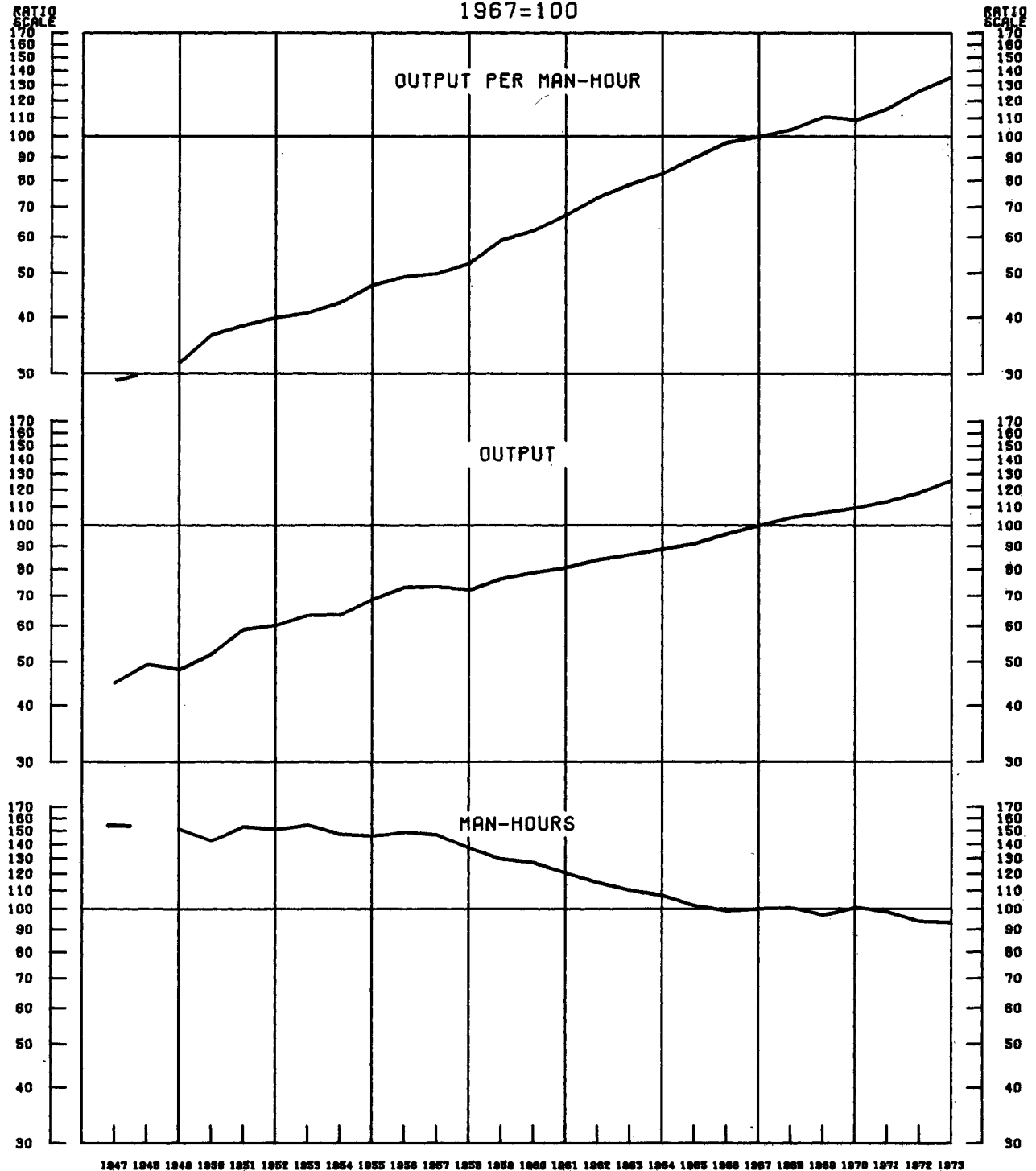
CHART 40
 PETROLEUM REFINING (SIC 291), 1947-73
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



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

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

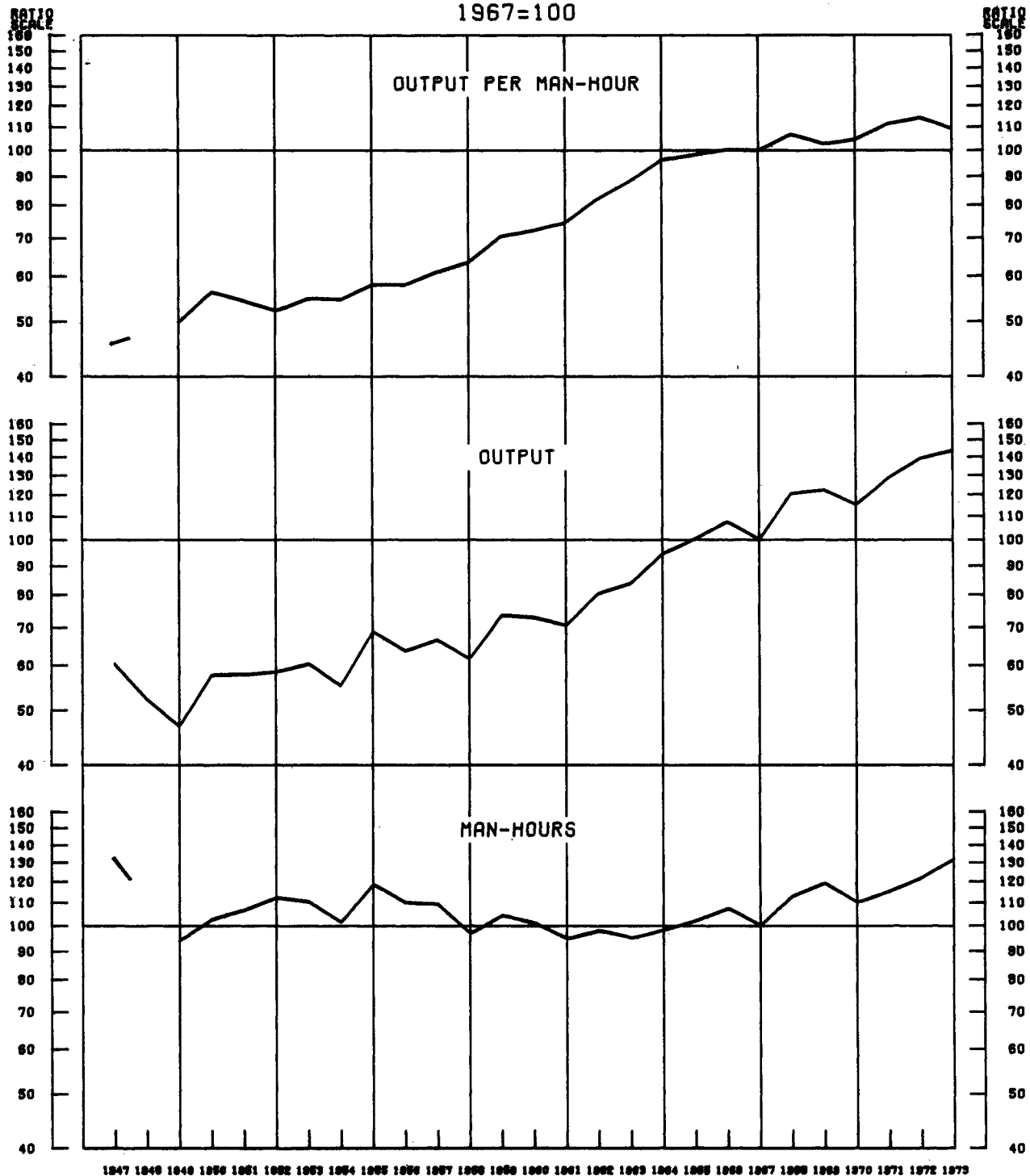
CHART 41
 PETROLEUM REFINING (SIC 291), 1947-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



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

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

CHART 42
TIRES AND INNER TUBES (SIC 301), 1947-73
OUTPUT PER EMPLOYEE MAN-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.

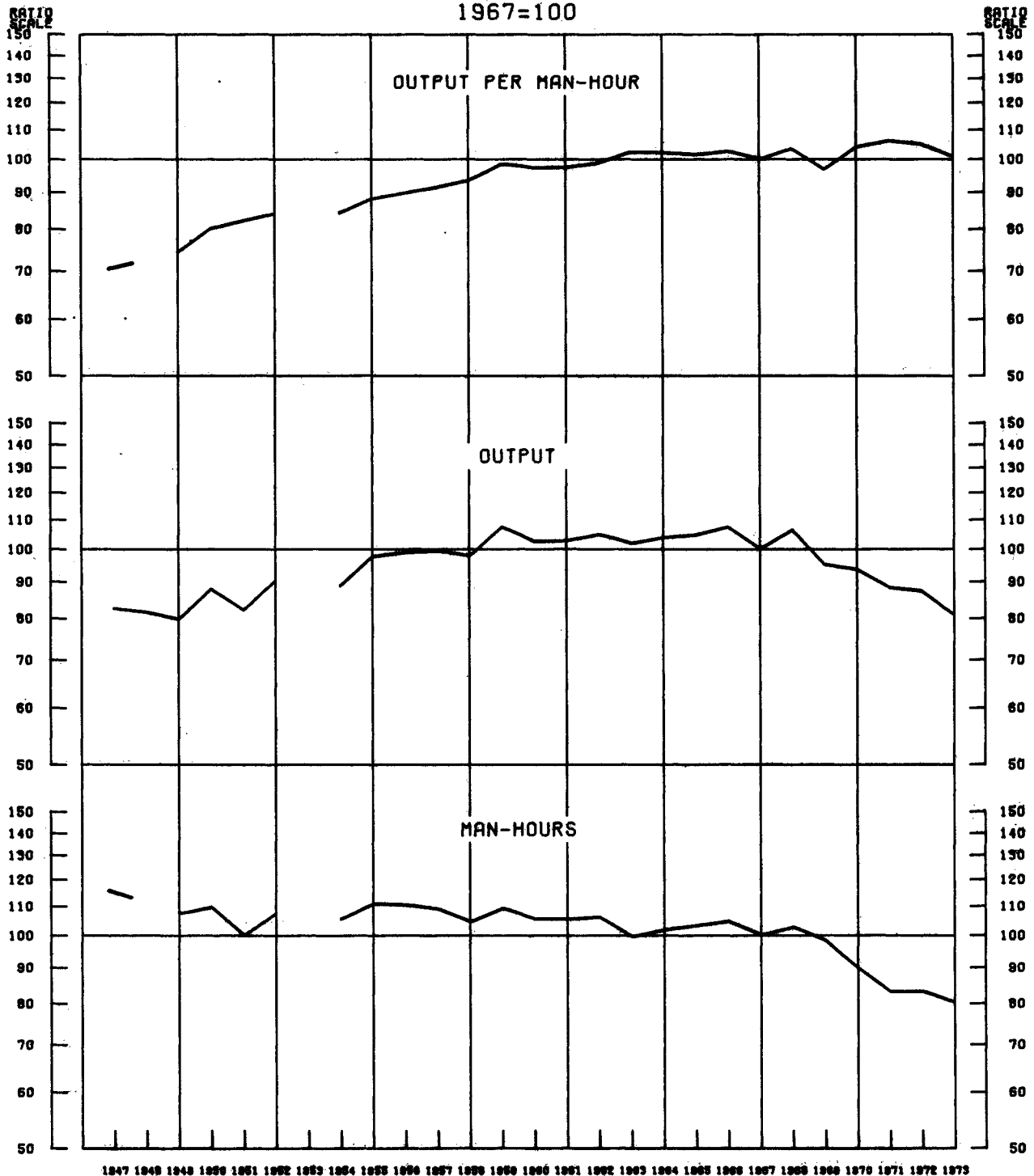
CHART 43
TIRES AND INNER TUBES (SIC 301), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

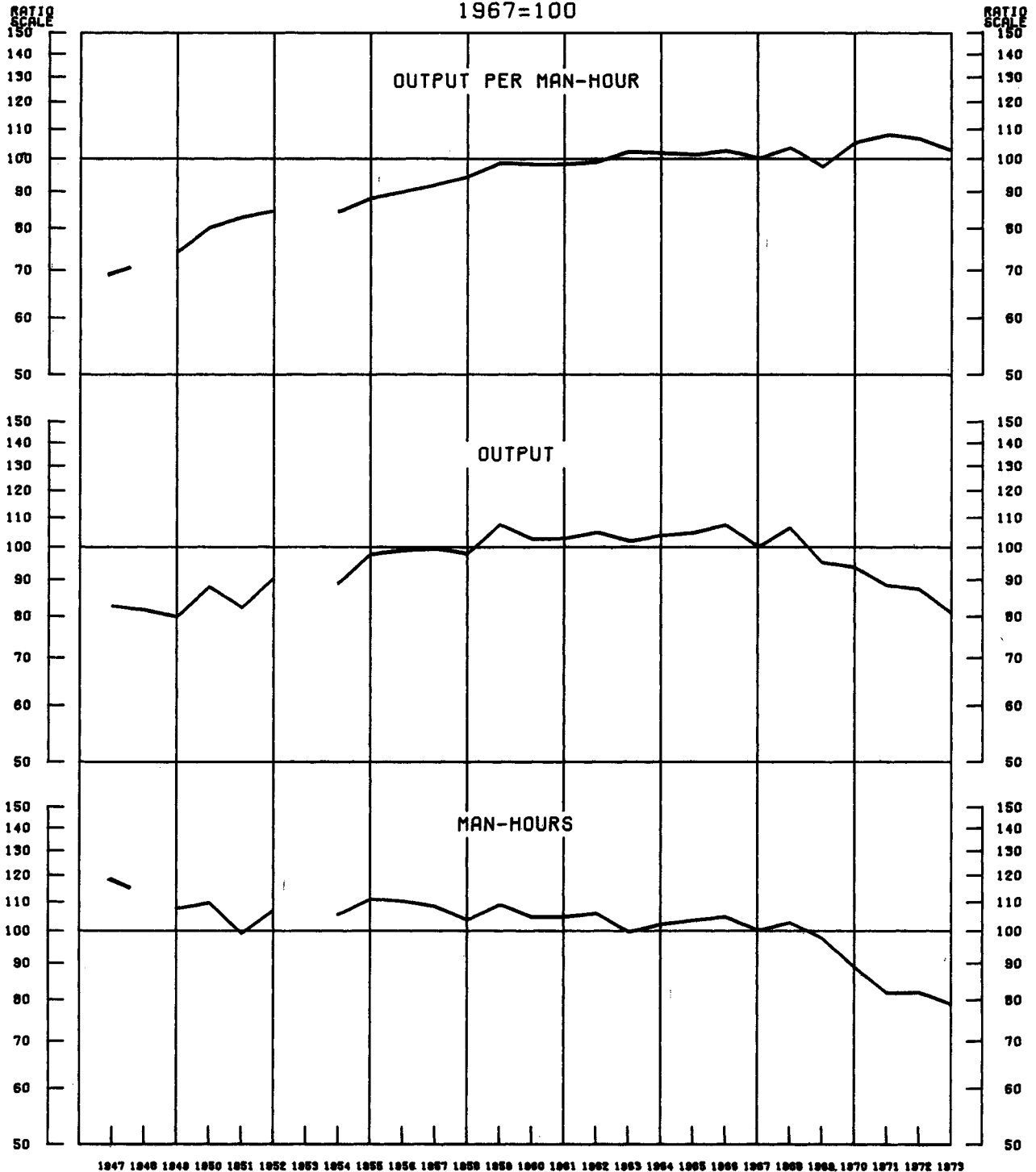
CHART 44
 FOOTWEAR (SIC 314), 1947-73
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



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

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

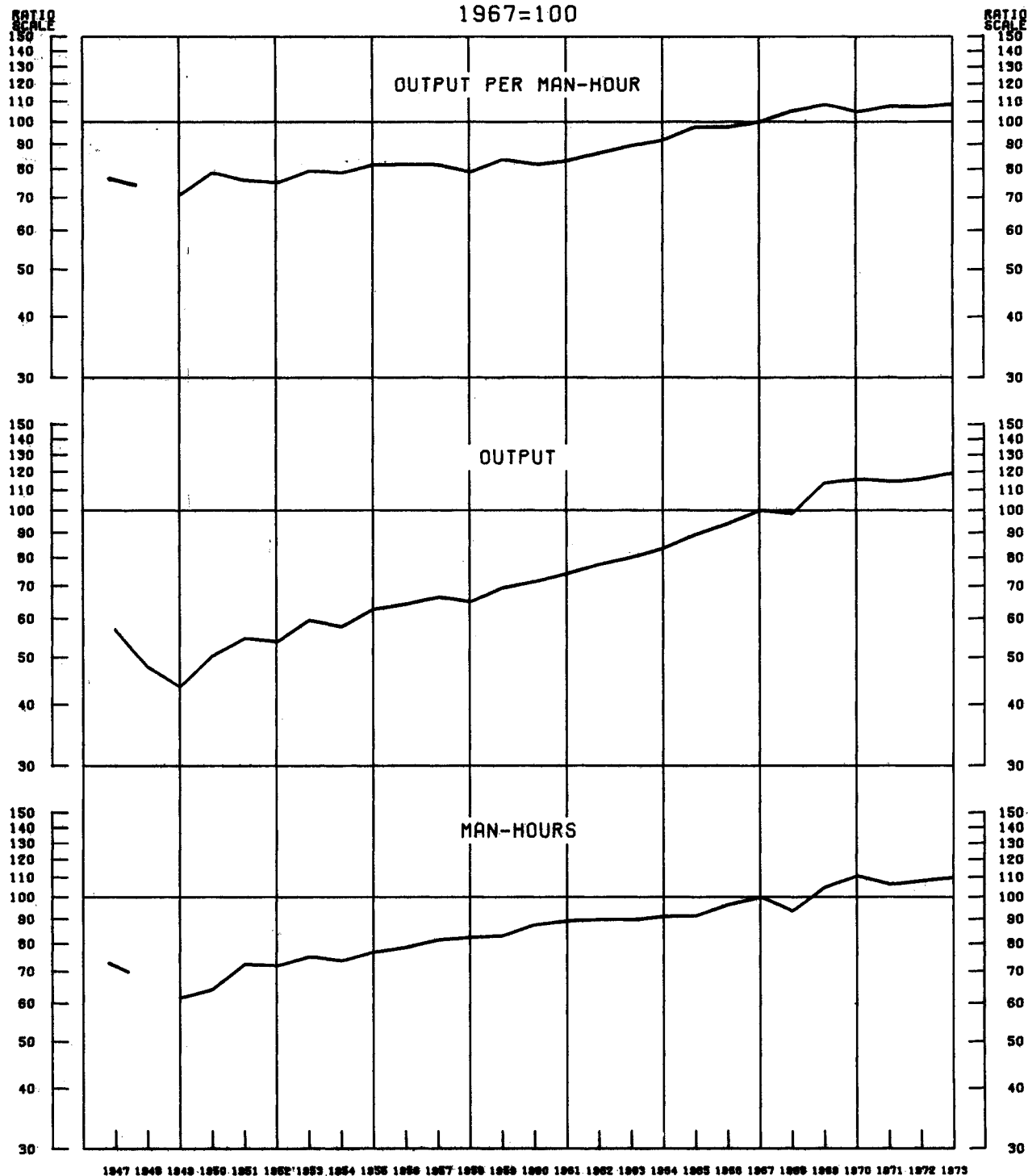
CHART 45
 FOOTWEAR (SIC 314), 1947-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



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

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

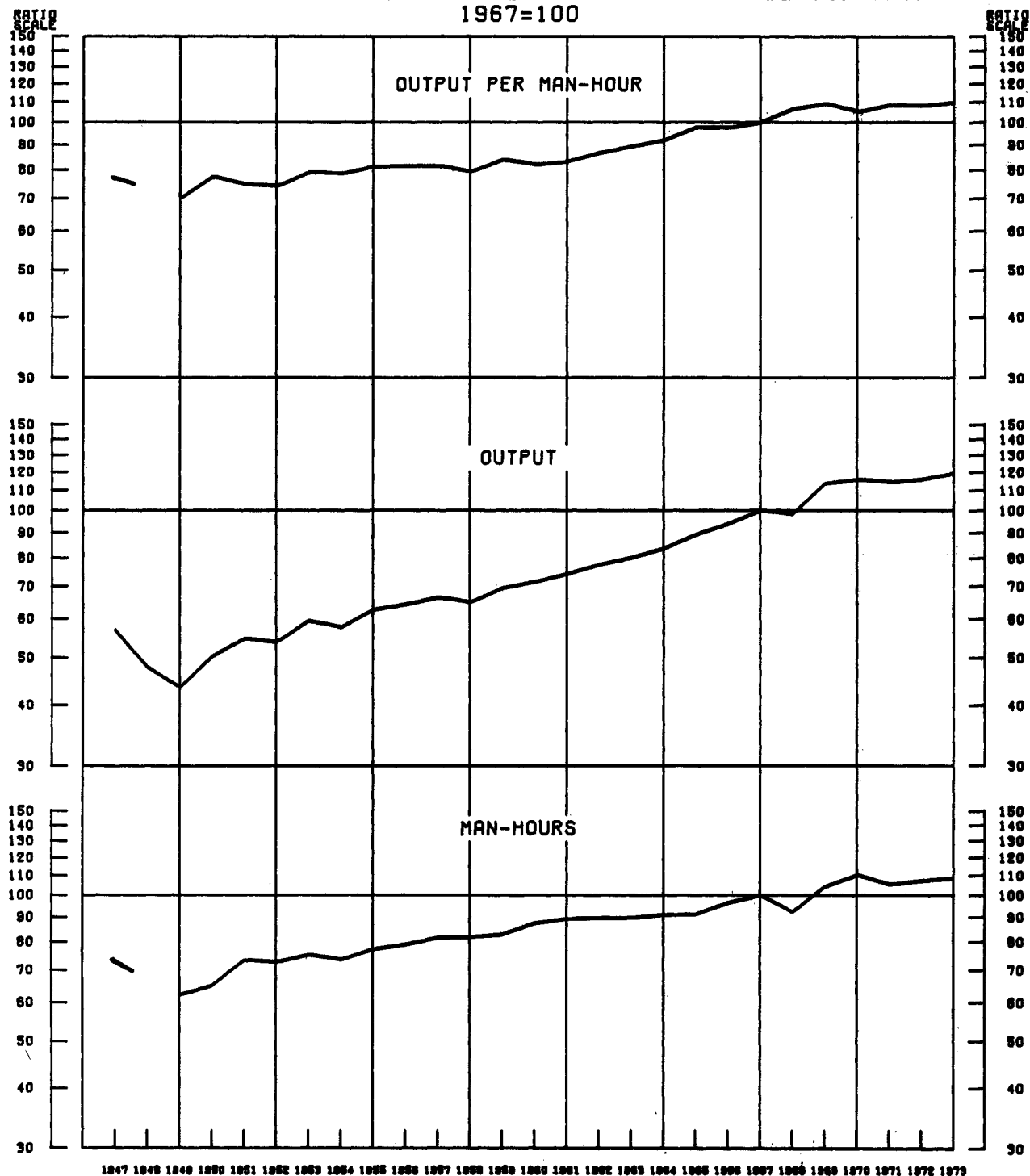
CHART 46
GLASS CONTAINERS (SIC 3221). 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

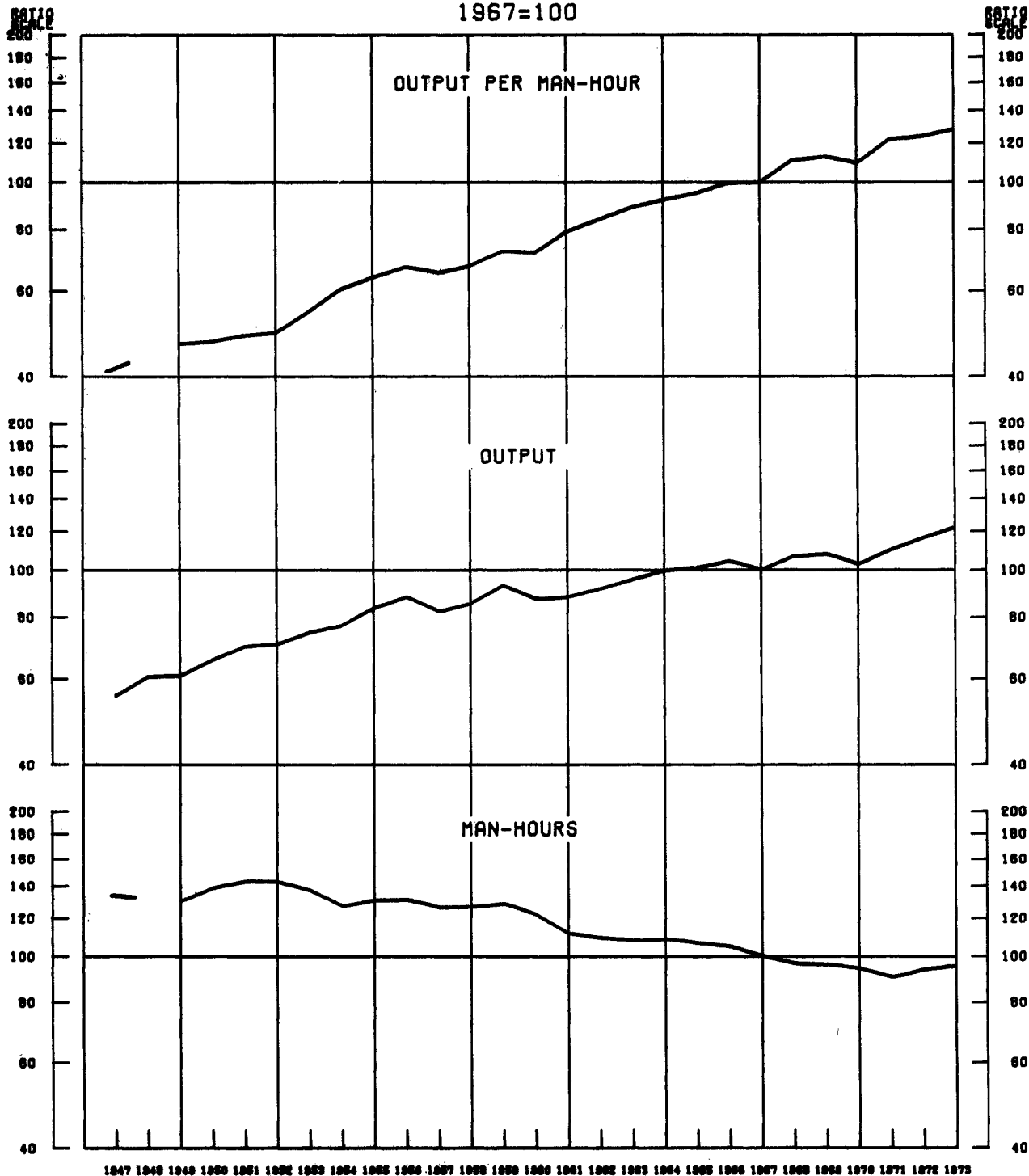
CHART 47
GLASS CONTAINERS (SIC 3221), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

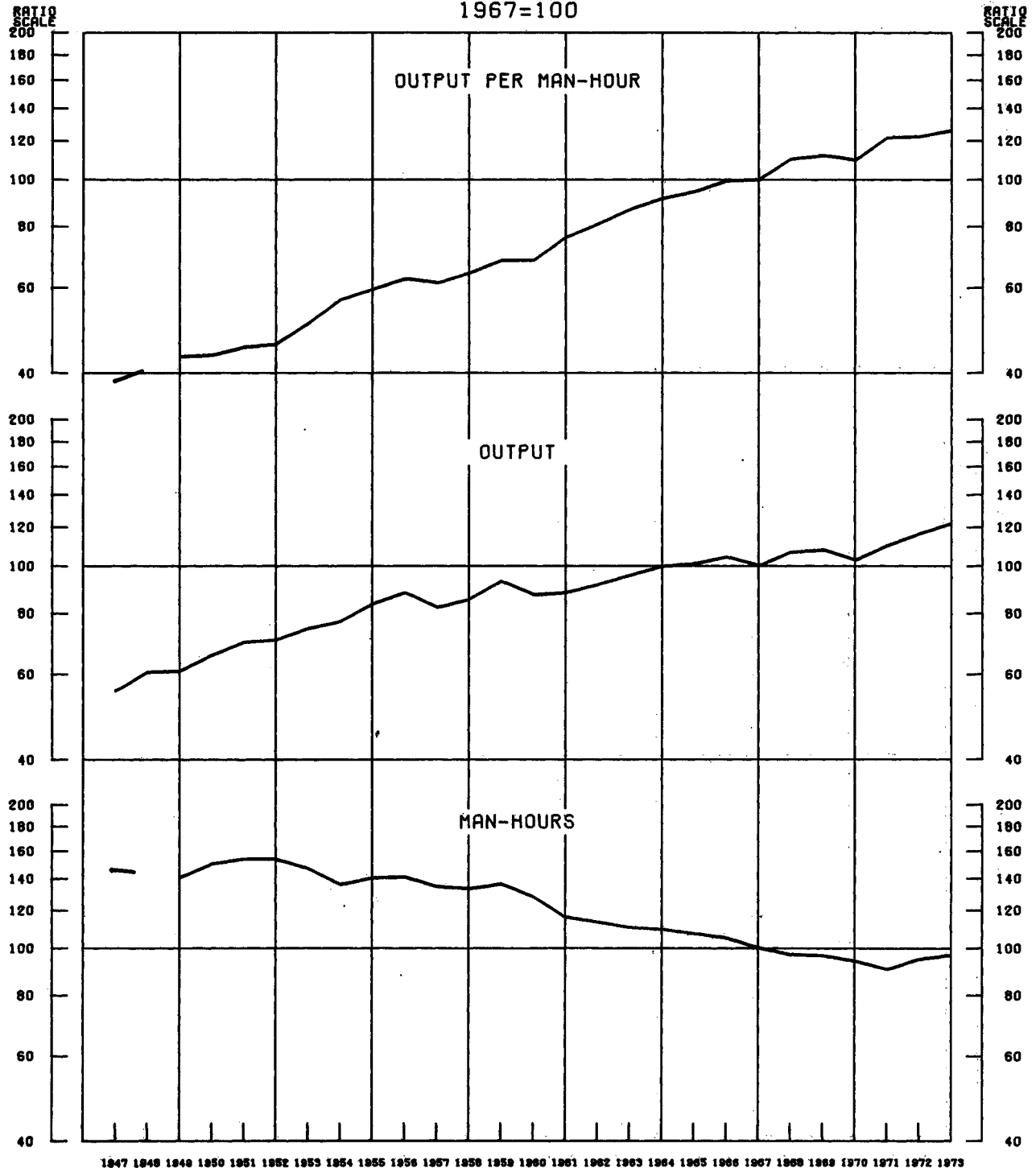
CHART 48
HYDRAULIC CEMENT (SIC 324), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

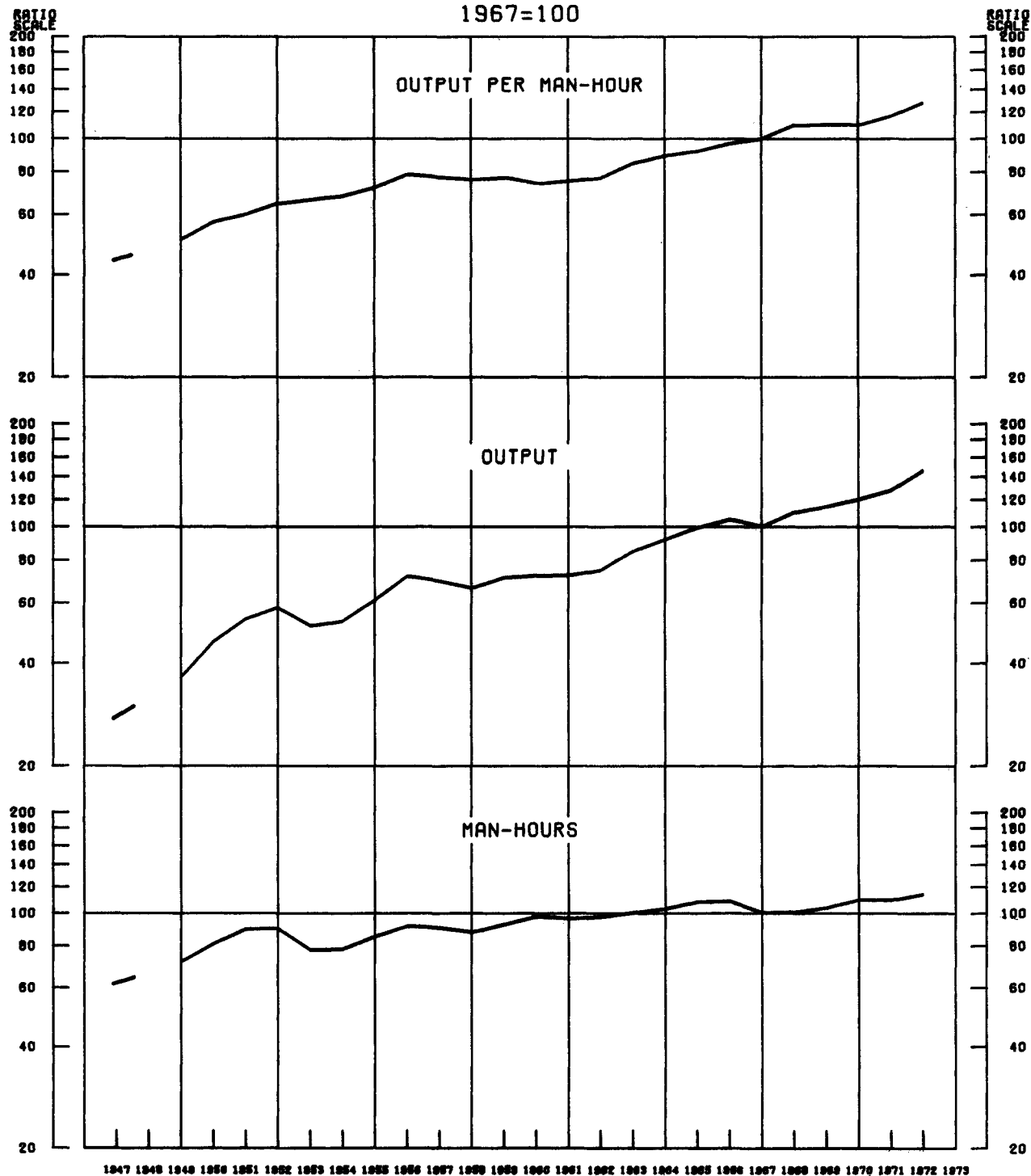
CHART 49
HYDRAULIC CEMENT (SIC 324), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

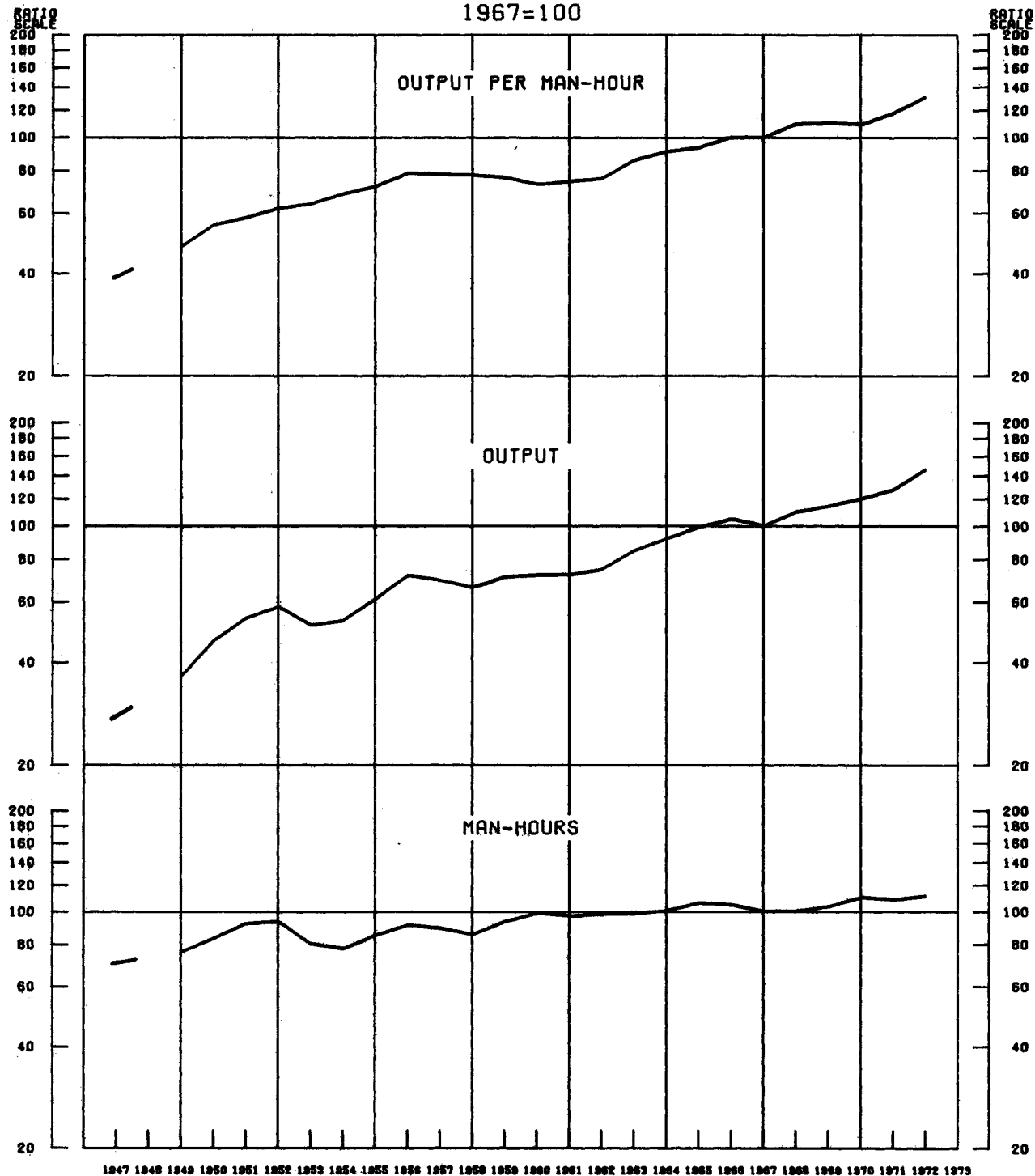
CHART 50
CONCRETE PRODUCTS (SIC 3271, 3272), 1947-72
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

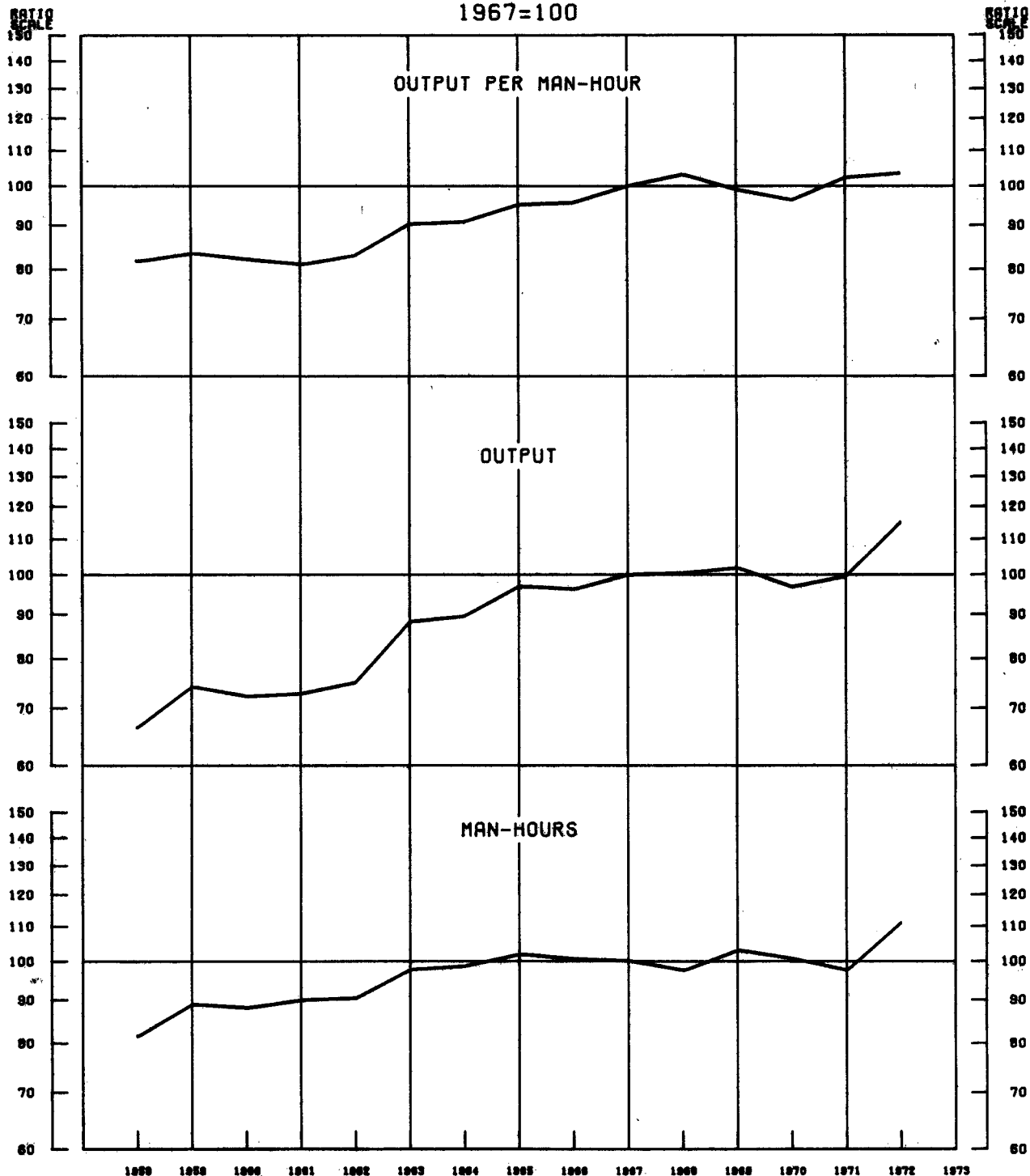
CHART 51
 CONCRETE PRODUCTS (SIC 3271, 3272), 1947-72
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



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

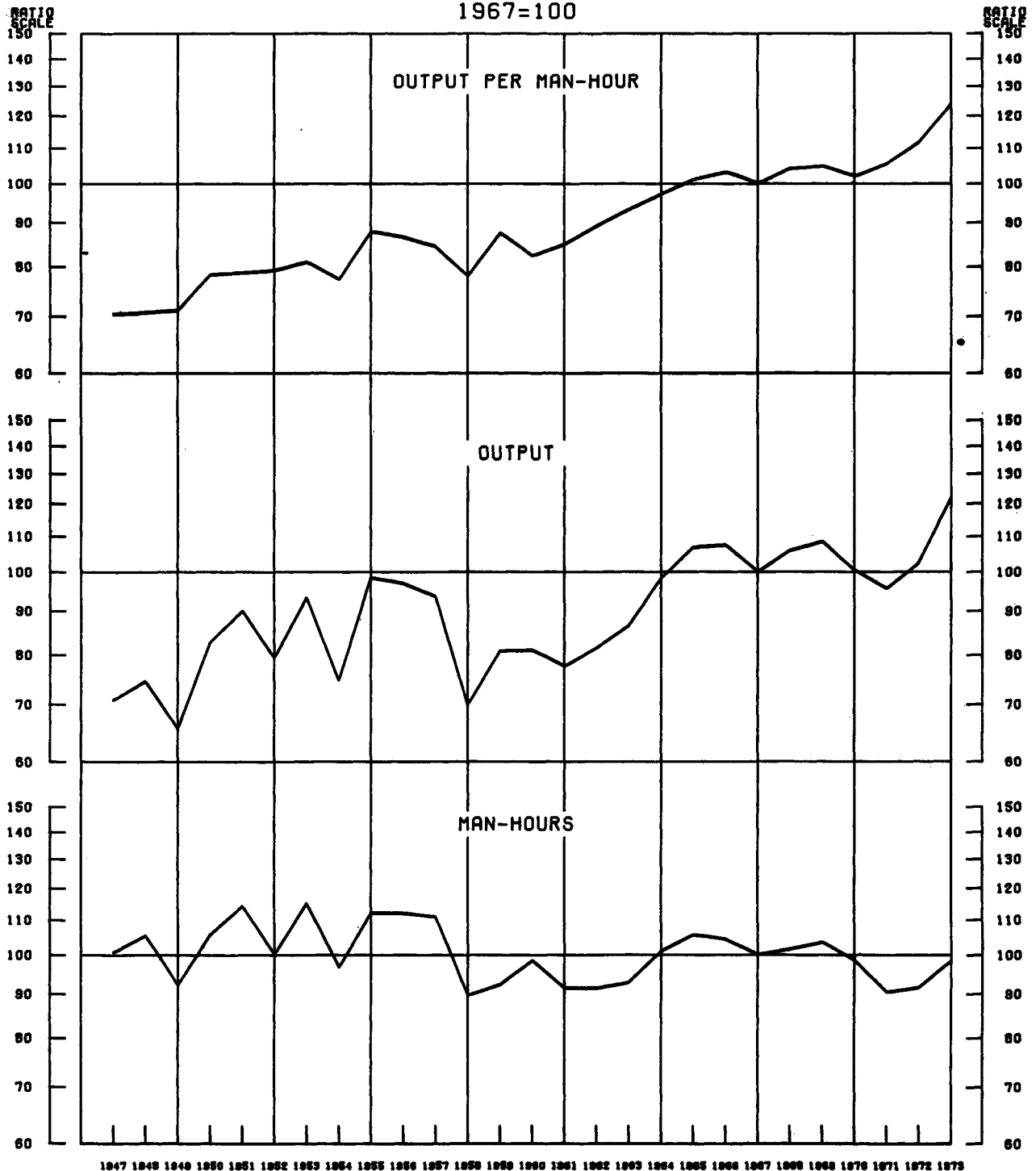
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 52
 READY-MIXED CONCRETE (SIC 3273), 1958-72
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



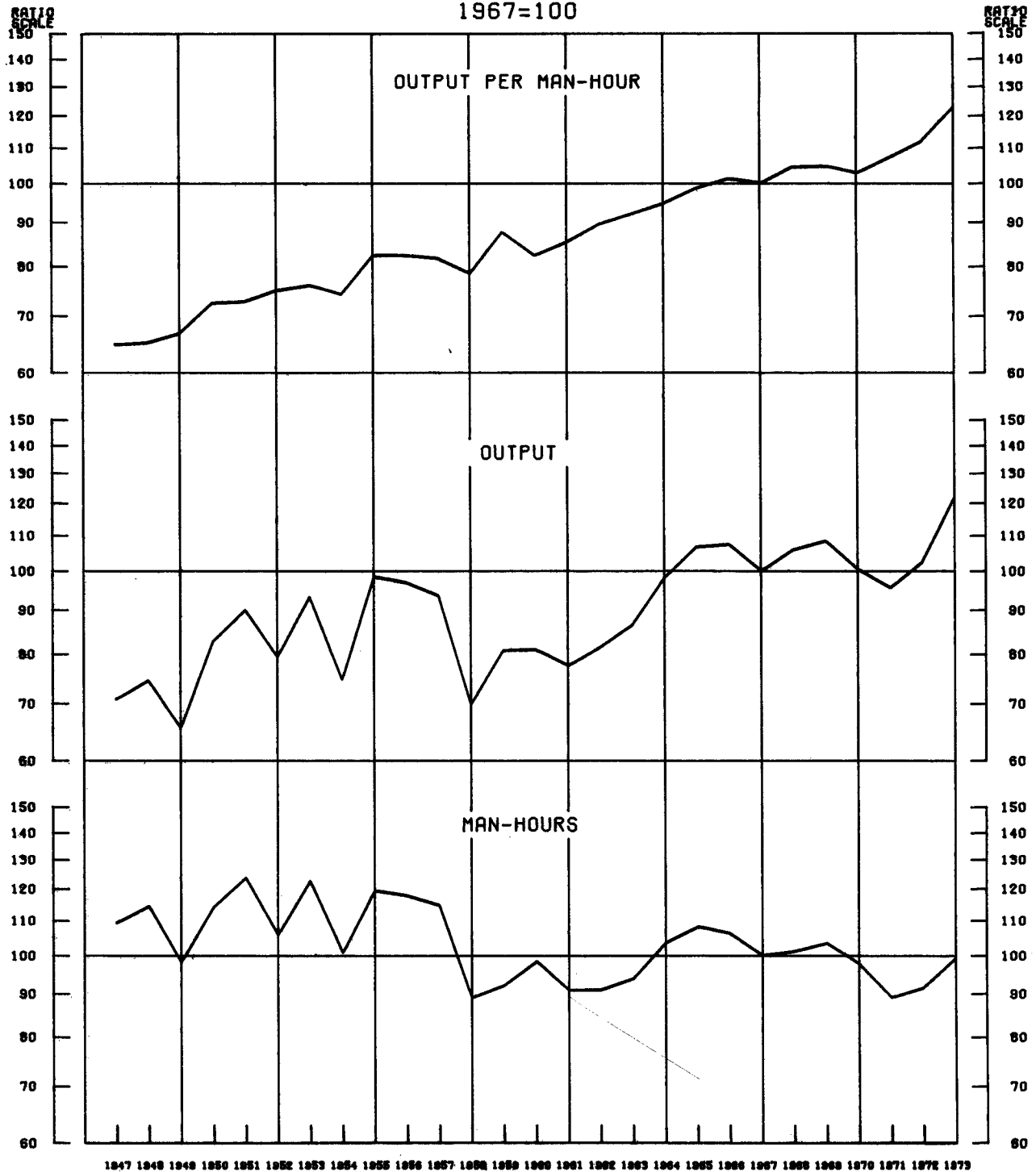
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 53
STEEL (SIC 331), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



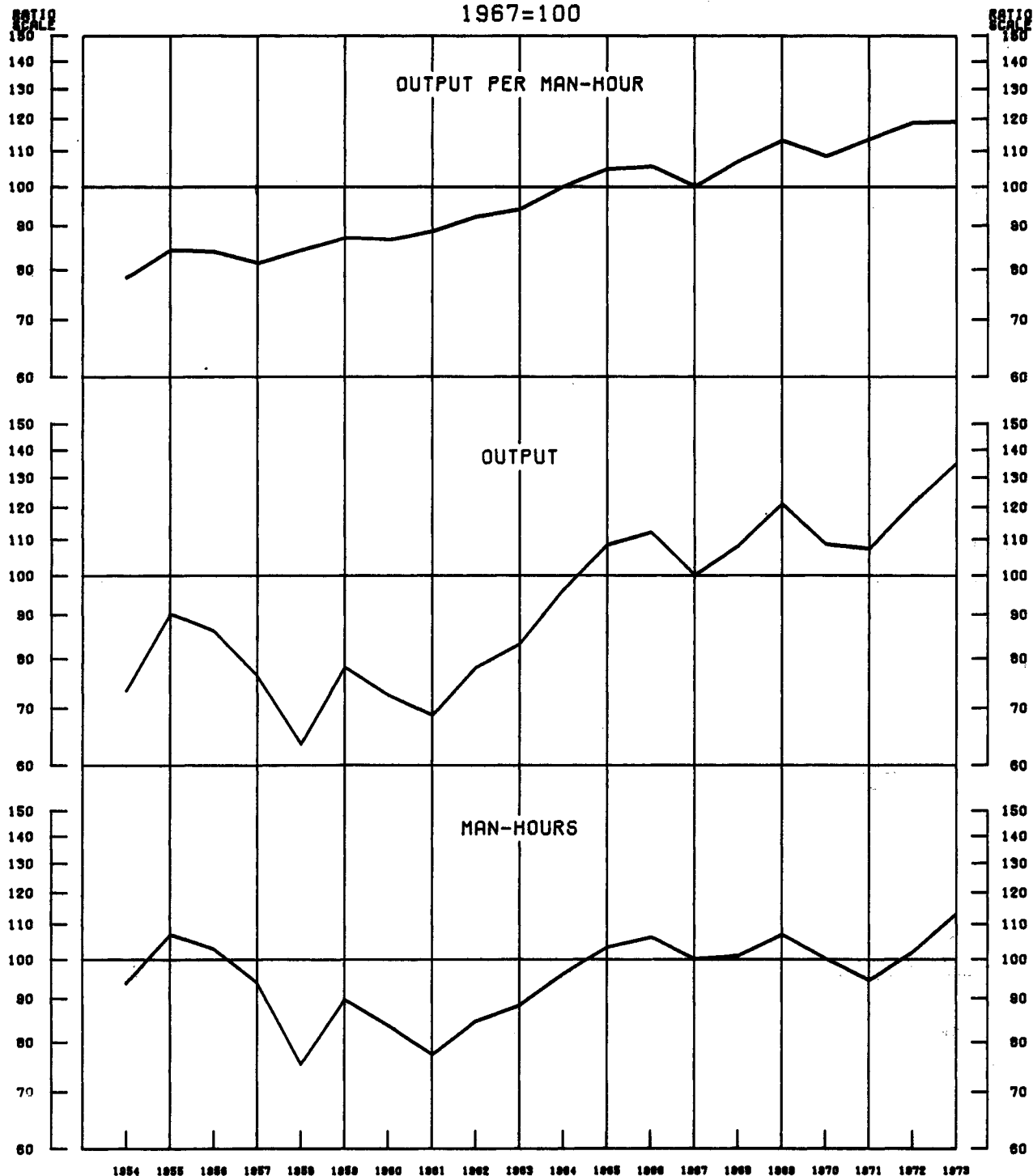
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 54
STEEL (SIC 331), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



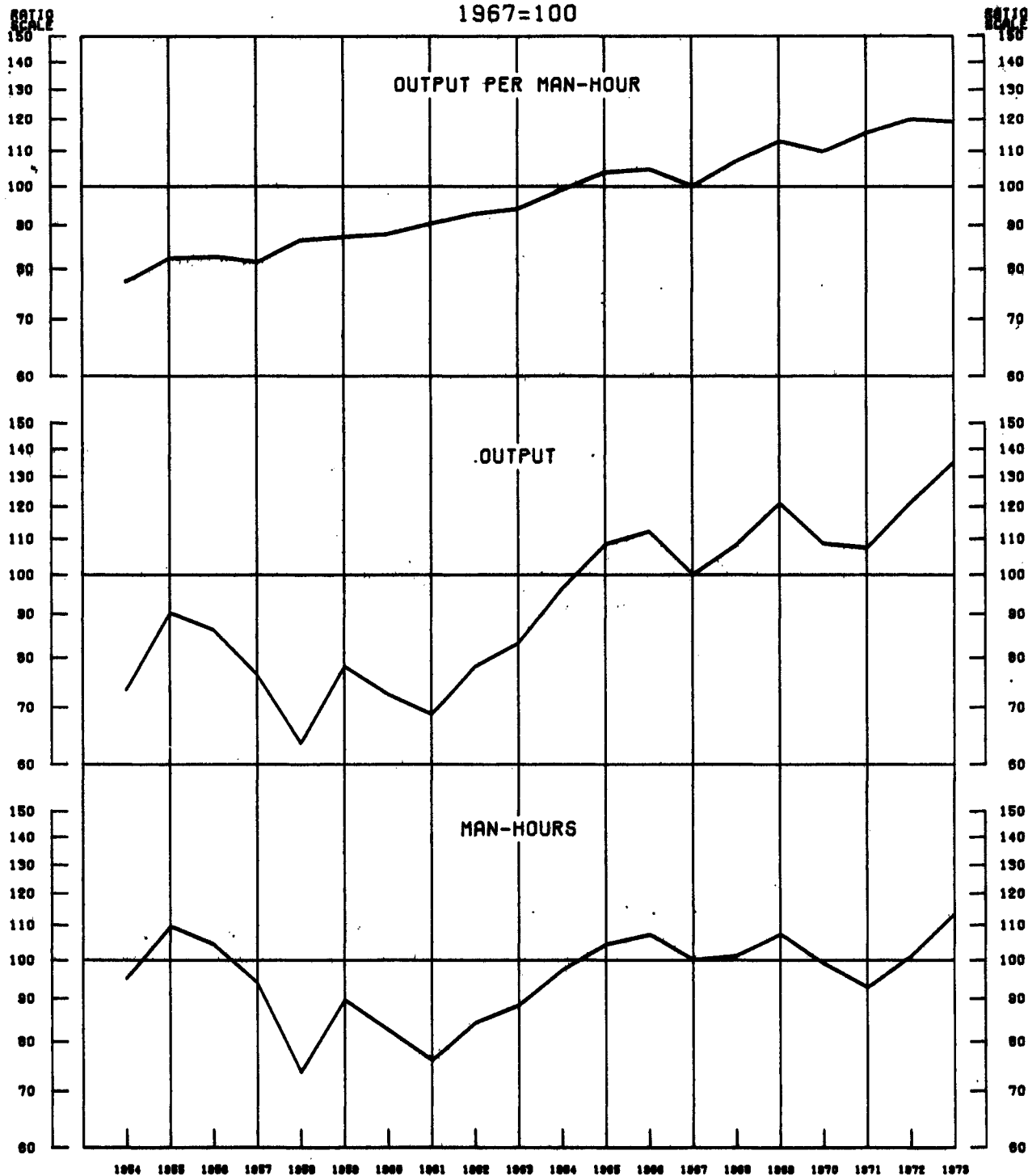
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 55
GRAY IRON FOUNDRIES (SIC 3321), 1954-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



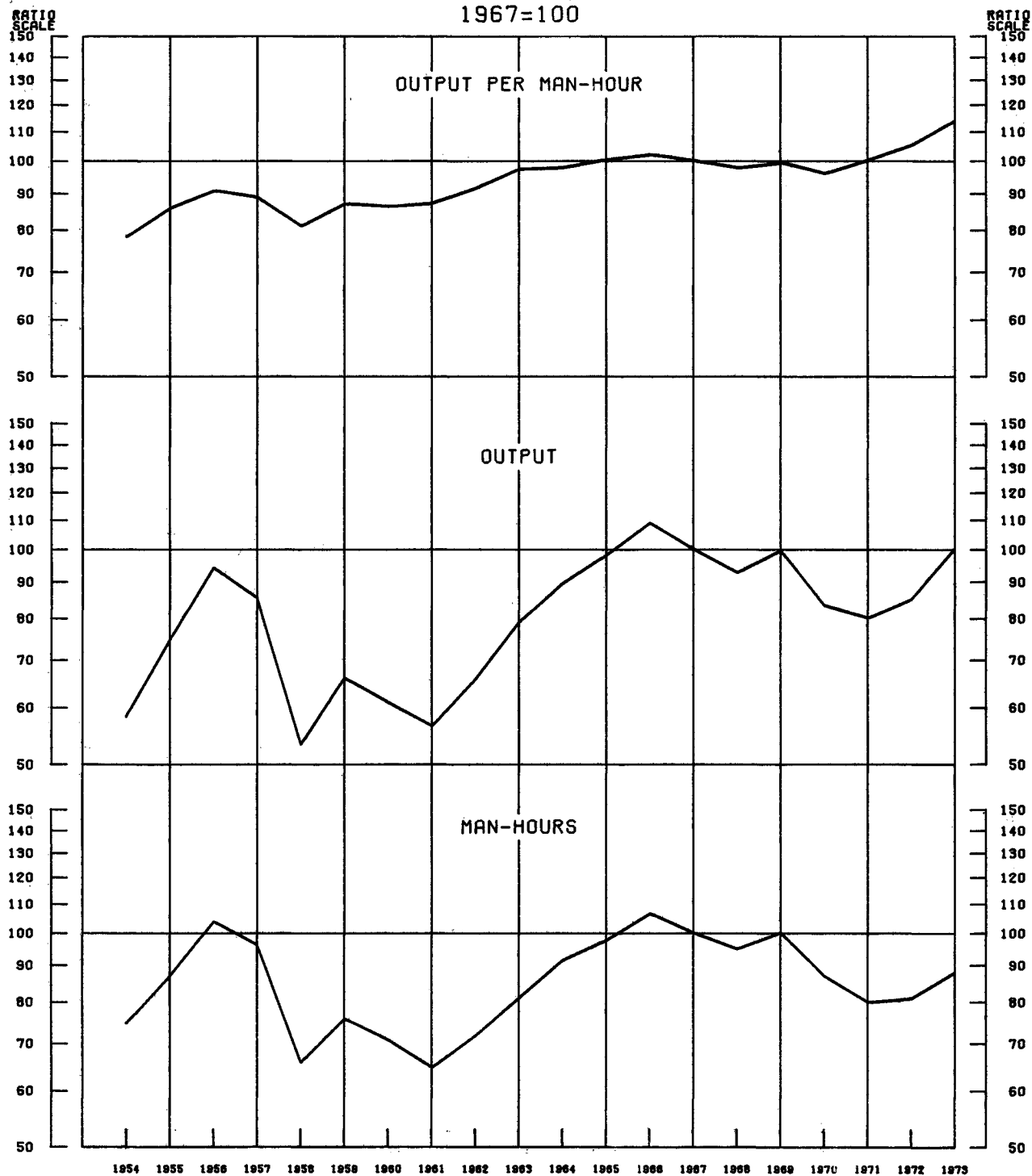
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 56
GRAY IRON FOUNDRIES (SIC 3321), 1954-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



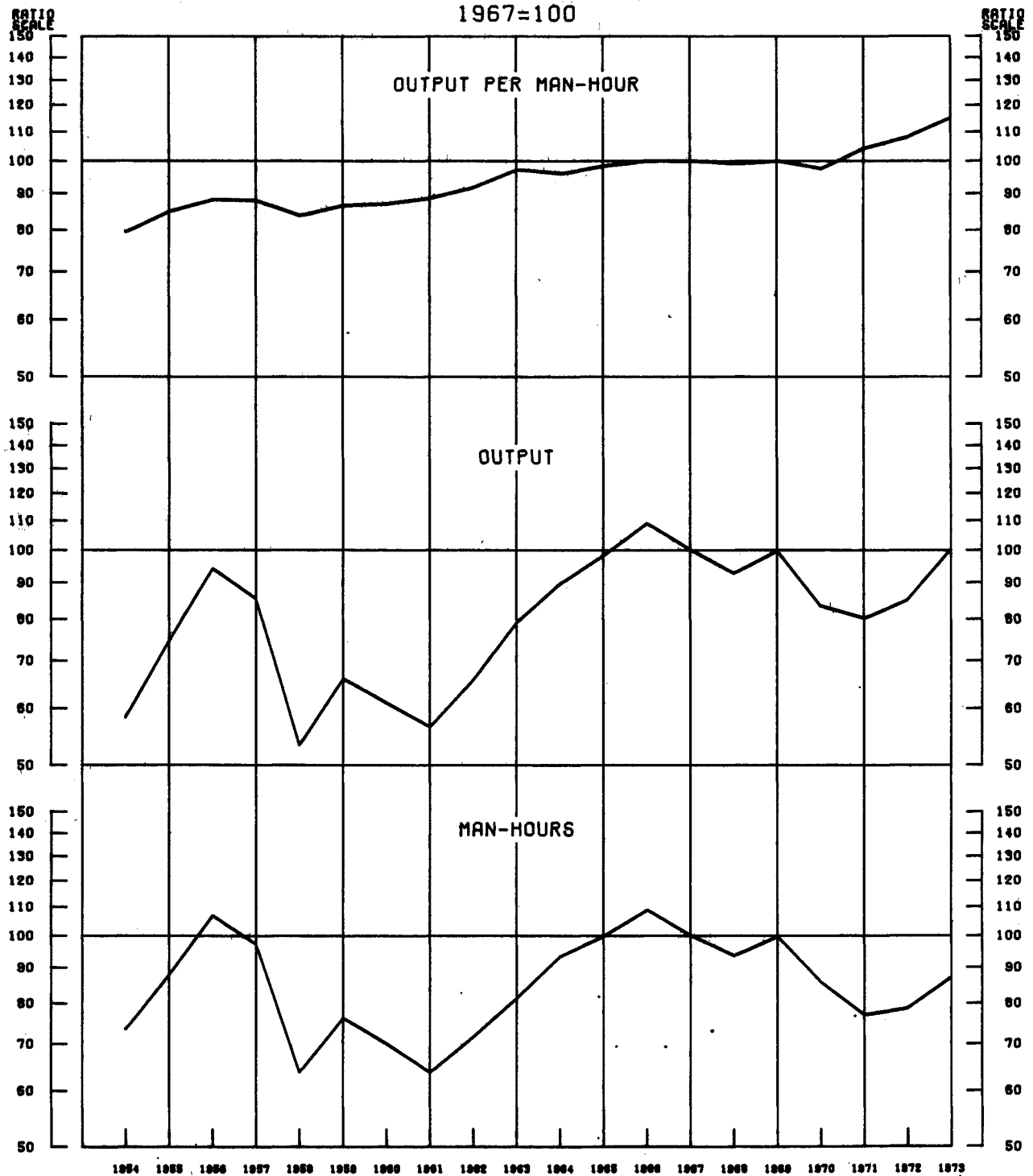
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 57
STEEL FOUNDRIES (SIC 3323). 1954-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



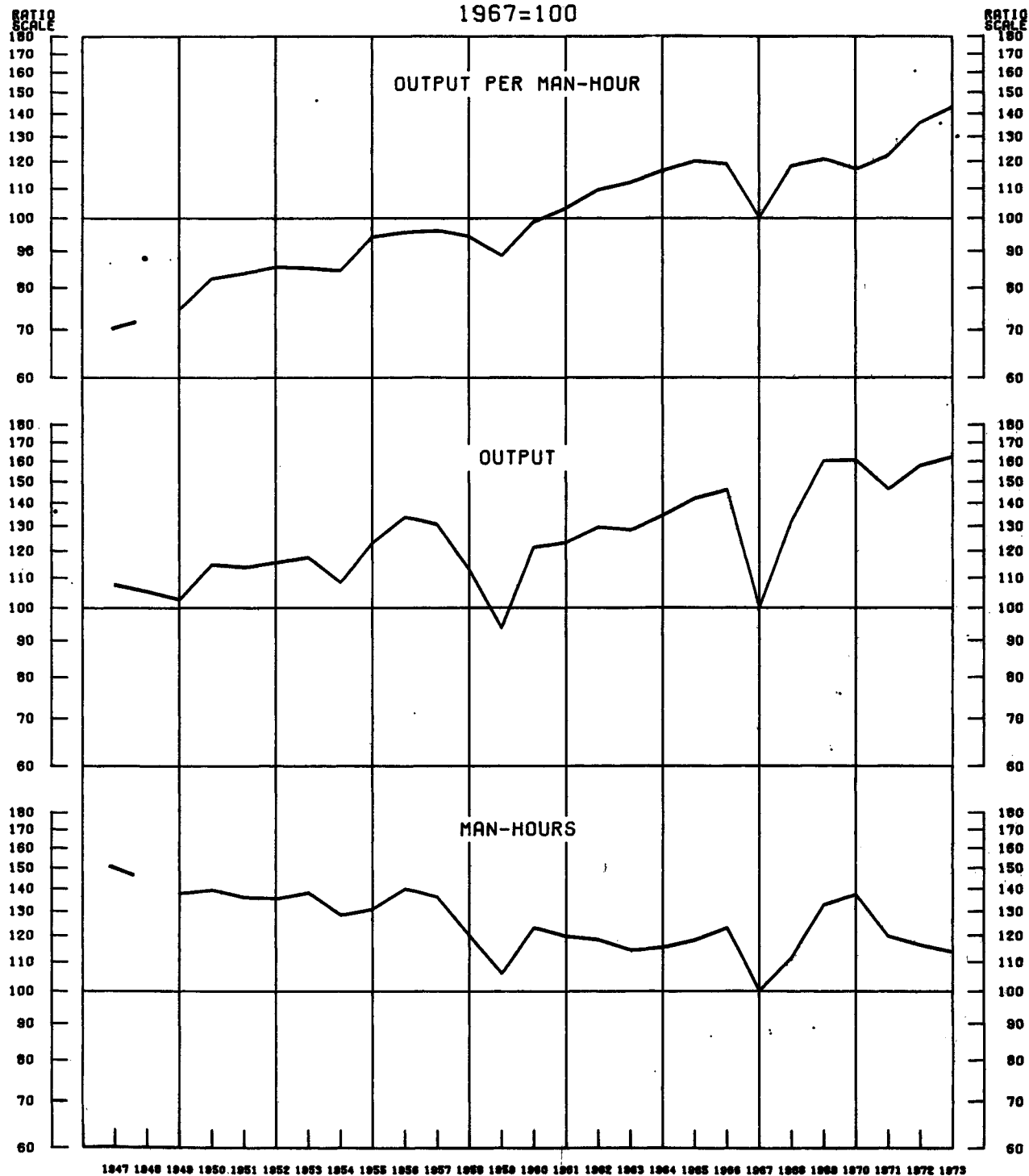
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 58
STEEL FOUNDRIES (SIC 3323), 1954-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

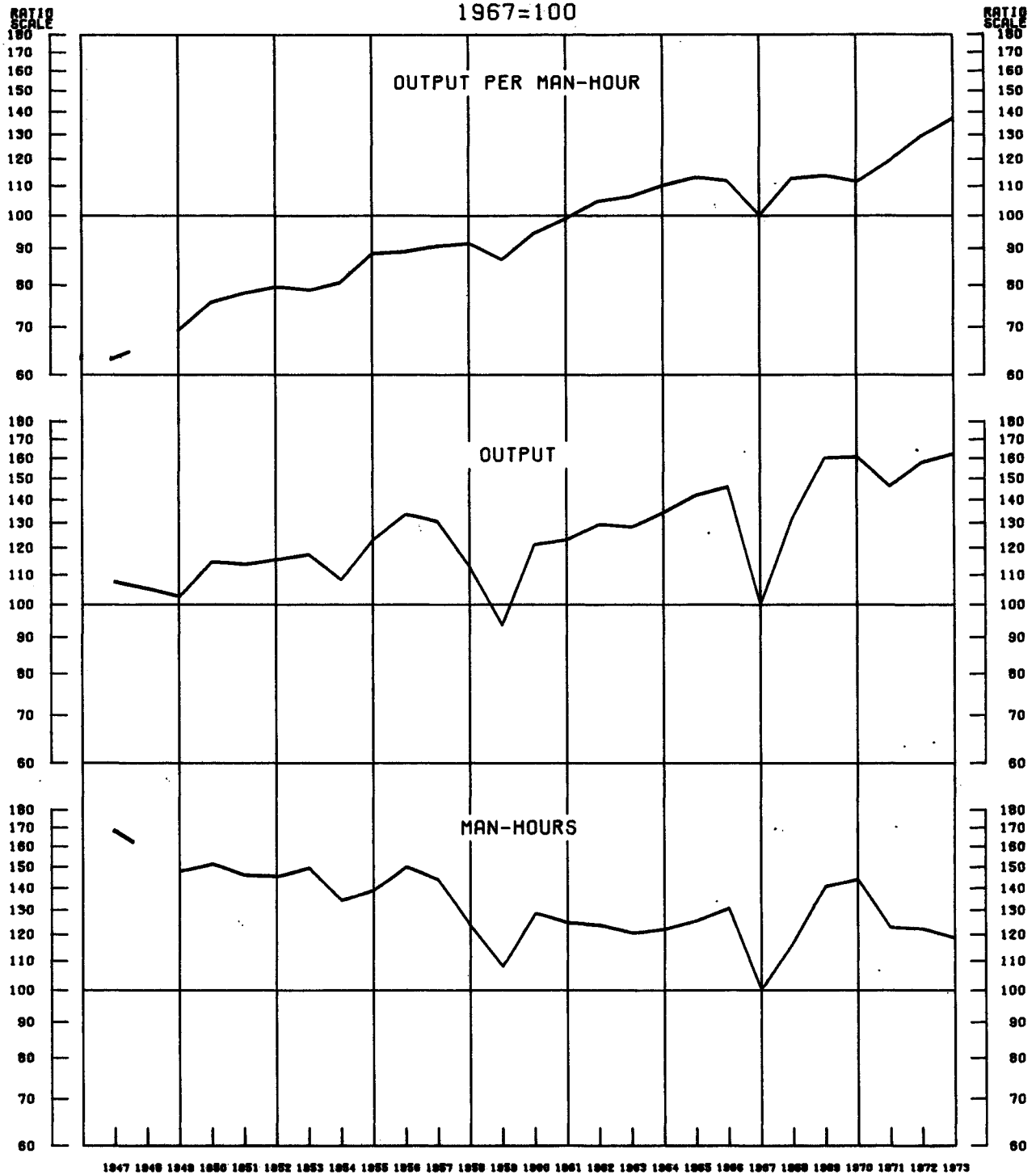
CHART 59
PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

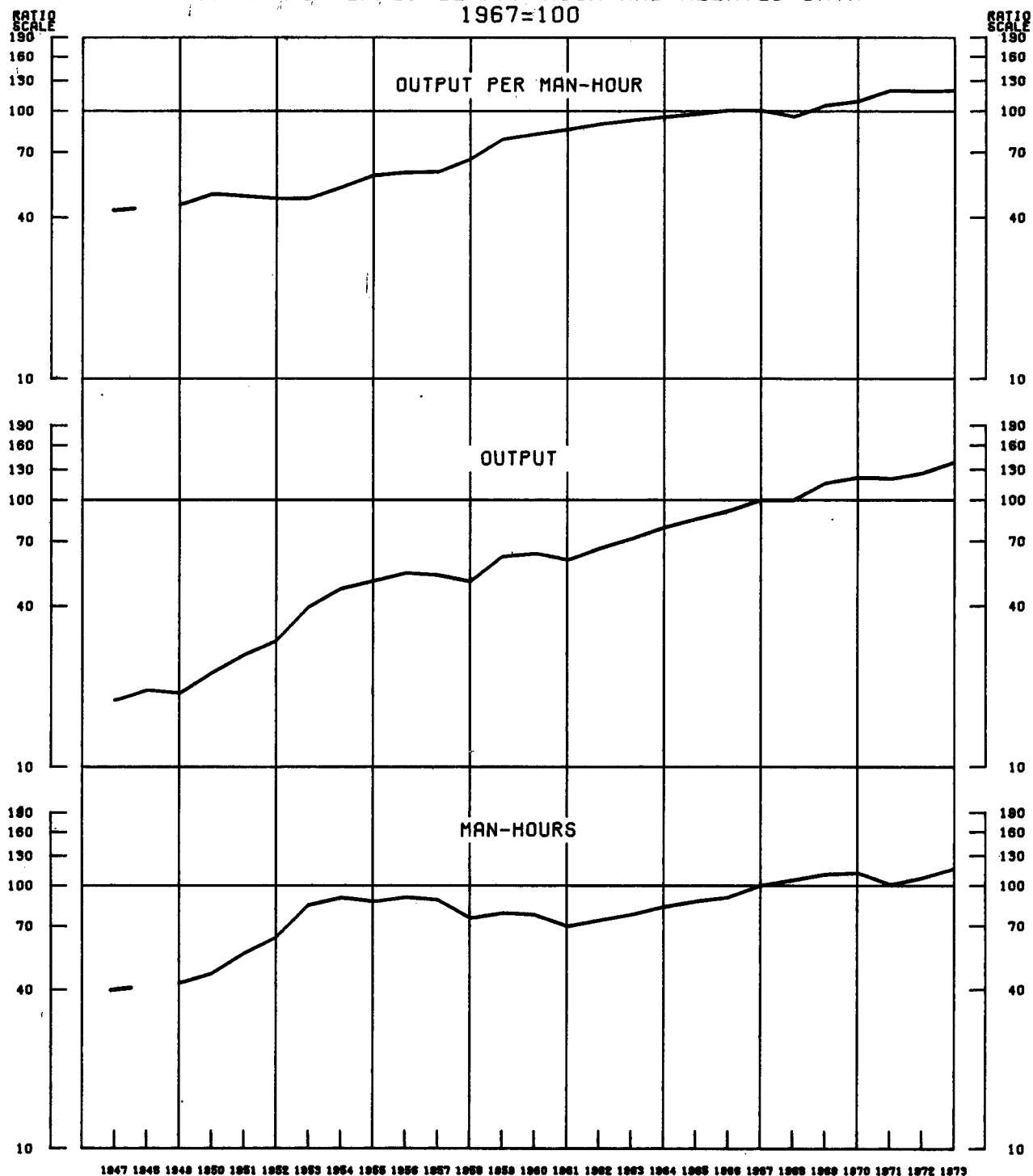
CHART 60
PRIMARY COPPER, LEAD AND ZINC (SIC 3331, 3332, 3333), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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

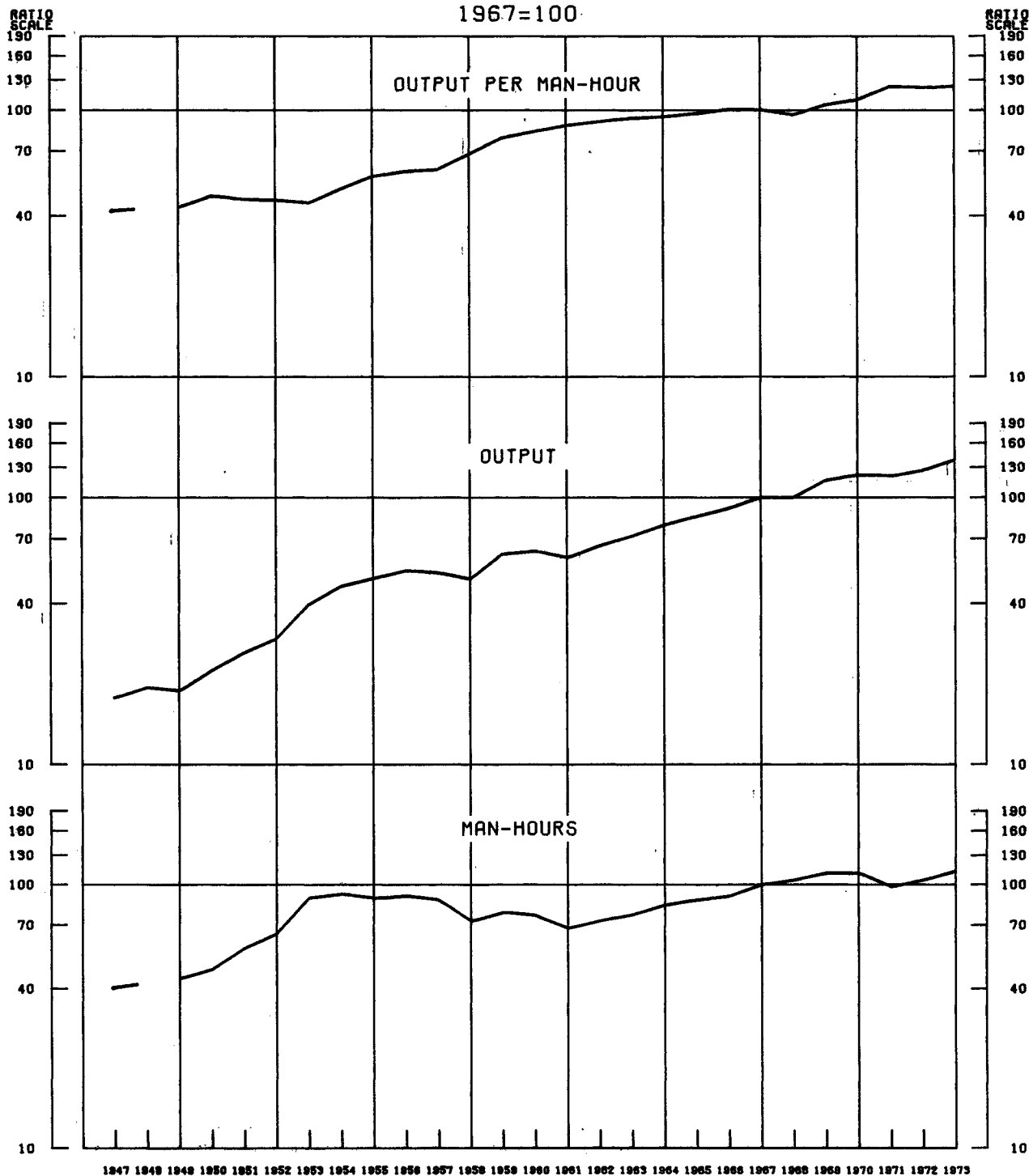
CHART 61
PRIMARY ALUMINUM (SIC 3334), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

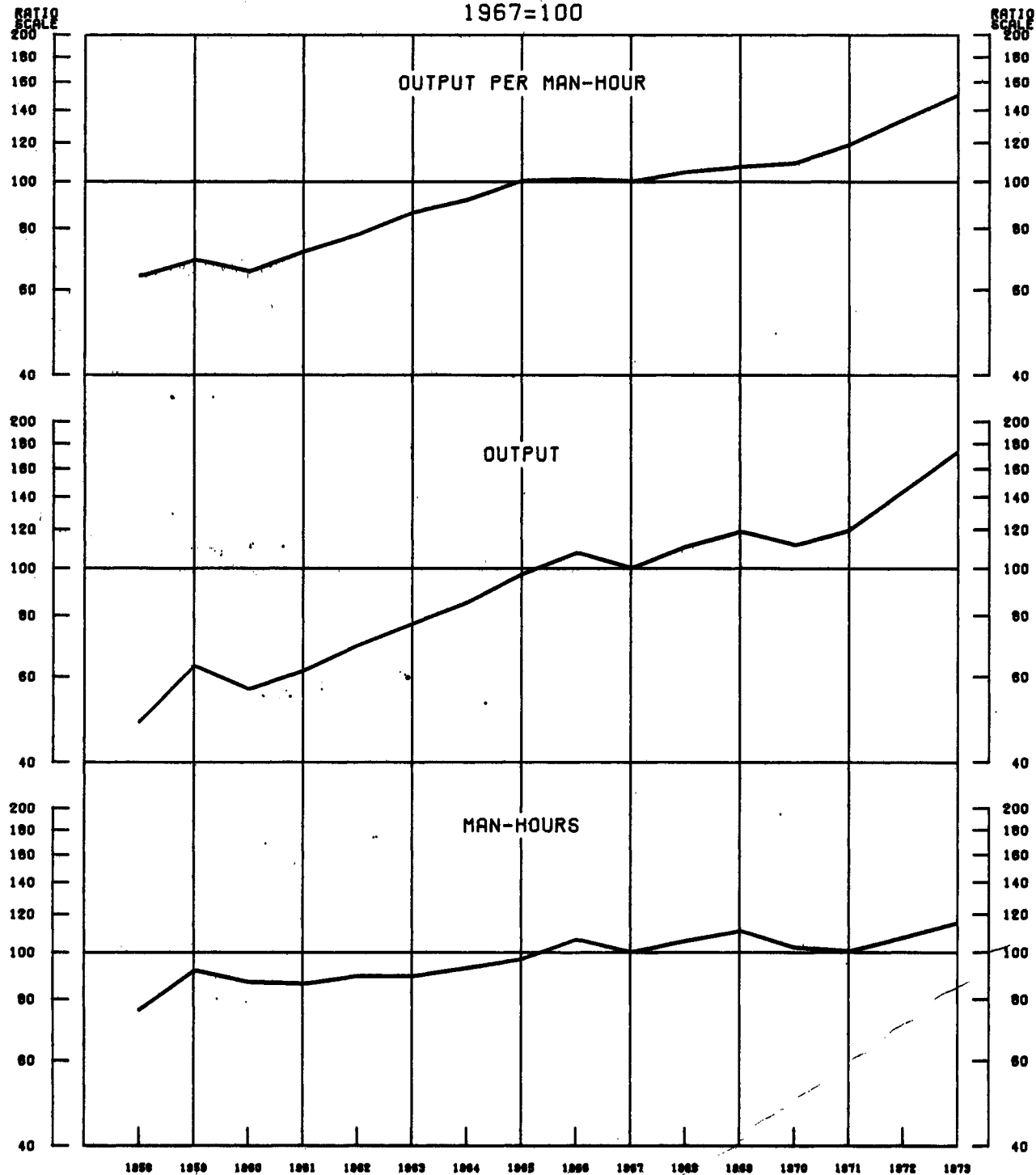
CHART 62
PRIMARY ALUMINUM (SIC 3334). 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

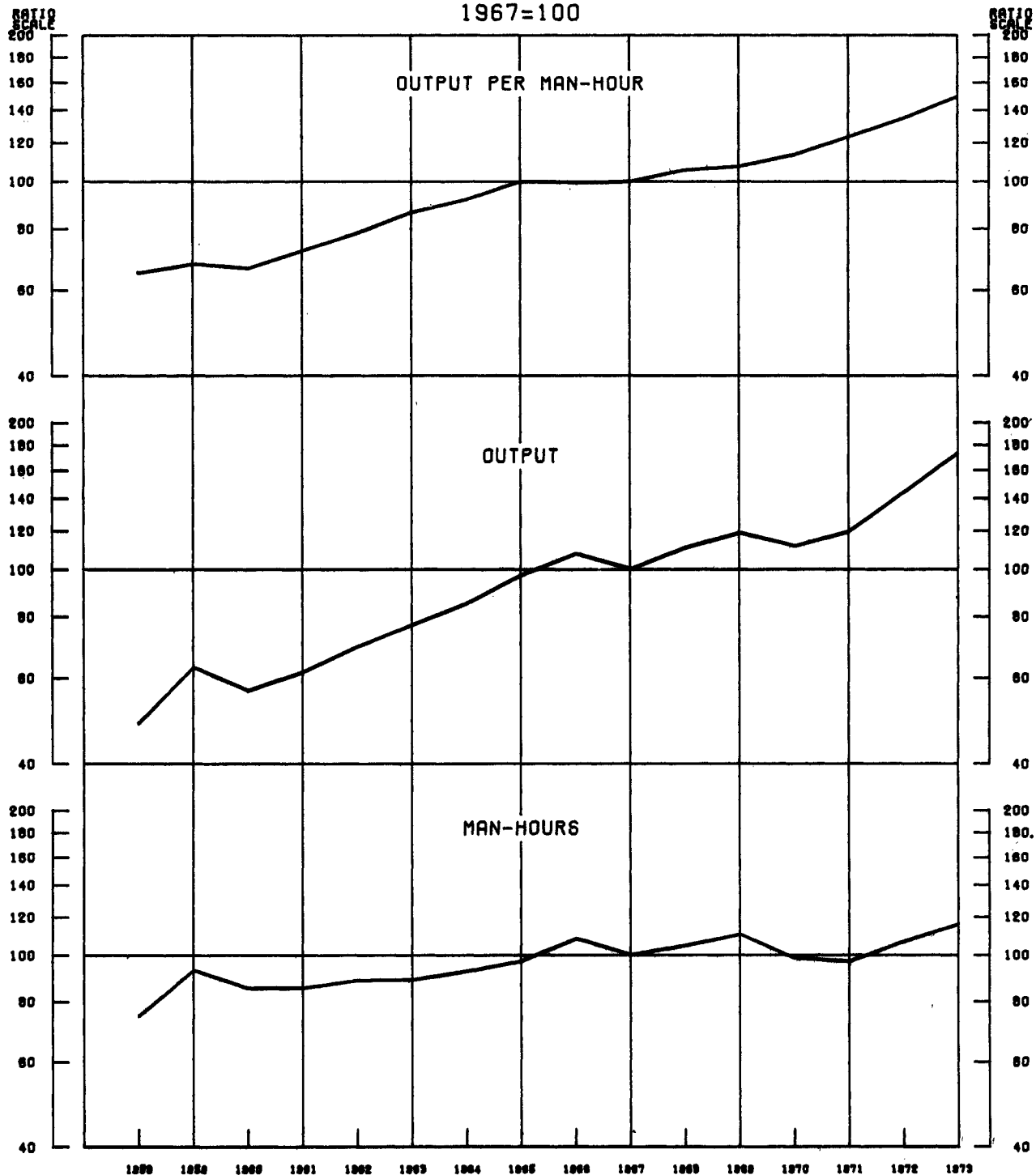
SOURCE: U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 63
ALUMINUM ROLLING AND DRAWING (SIC 3352), 1958-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

CHART 64
ALUMINUM ROLLING AND DRAWING (SIC 3352), 1958-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

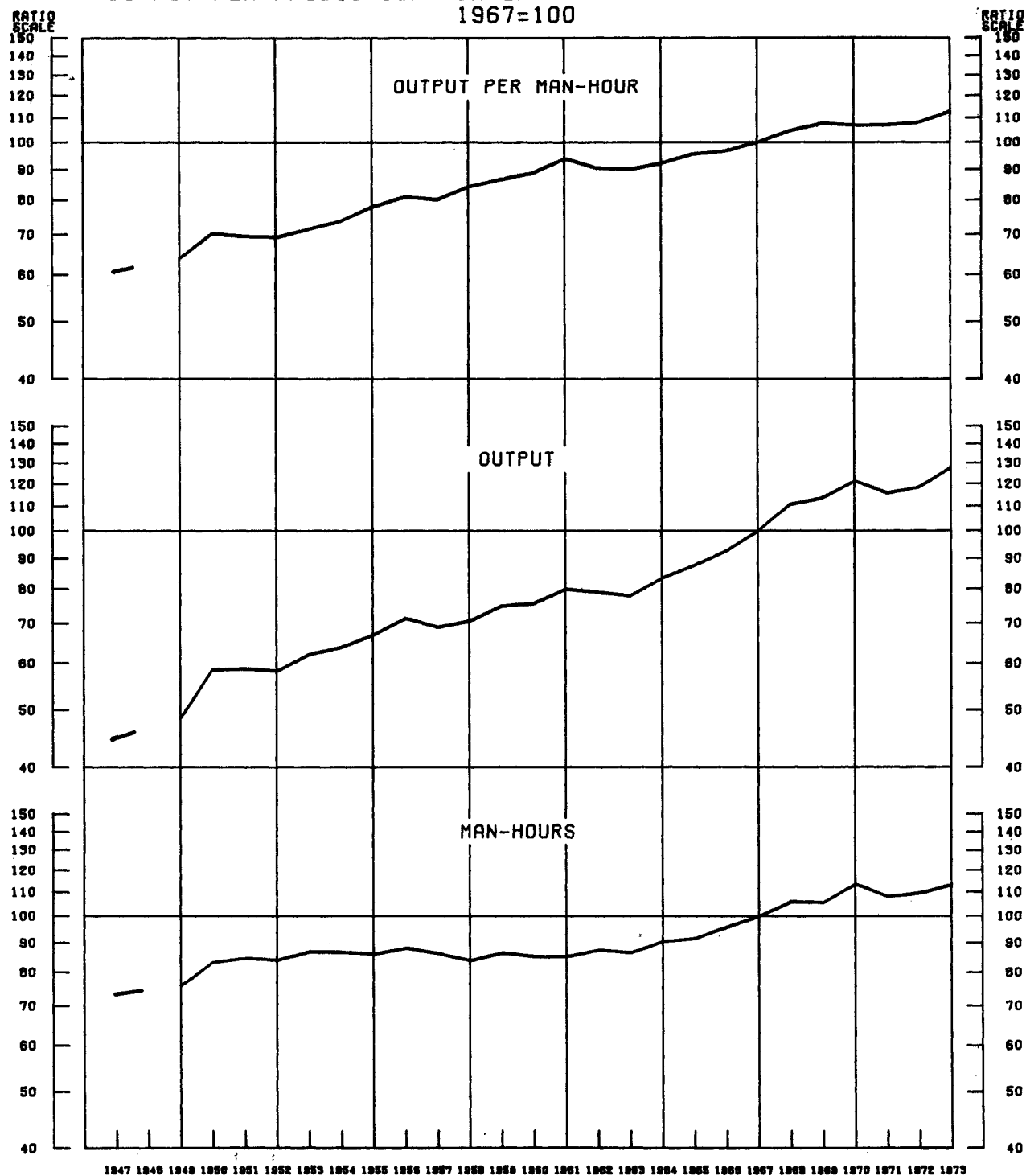
CHART 65
METAL CANS (SIC 341), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

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

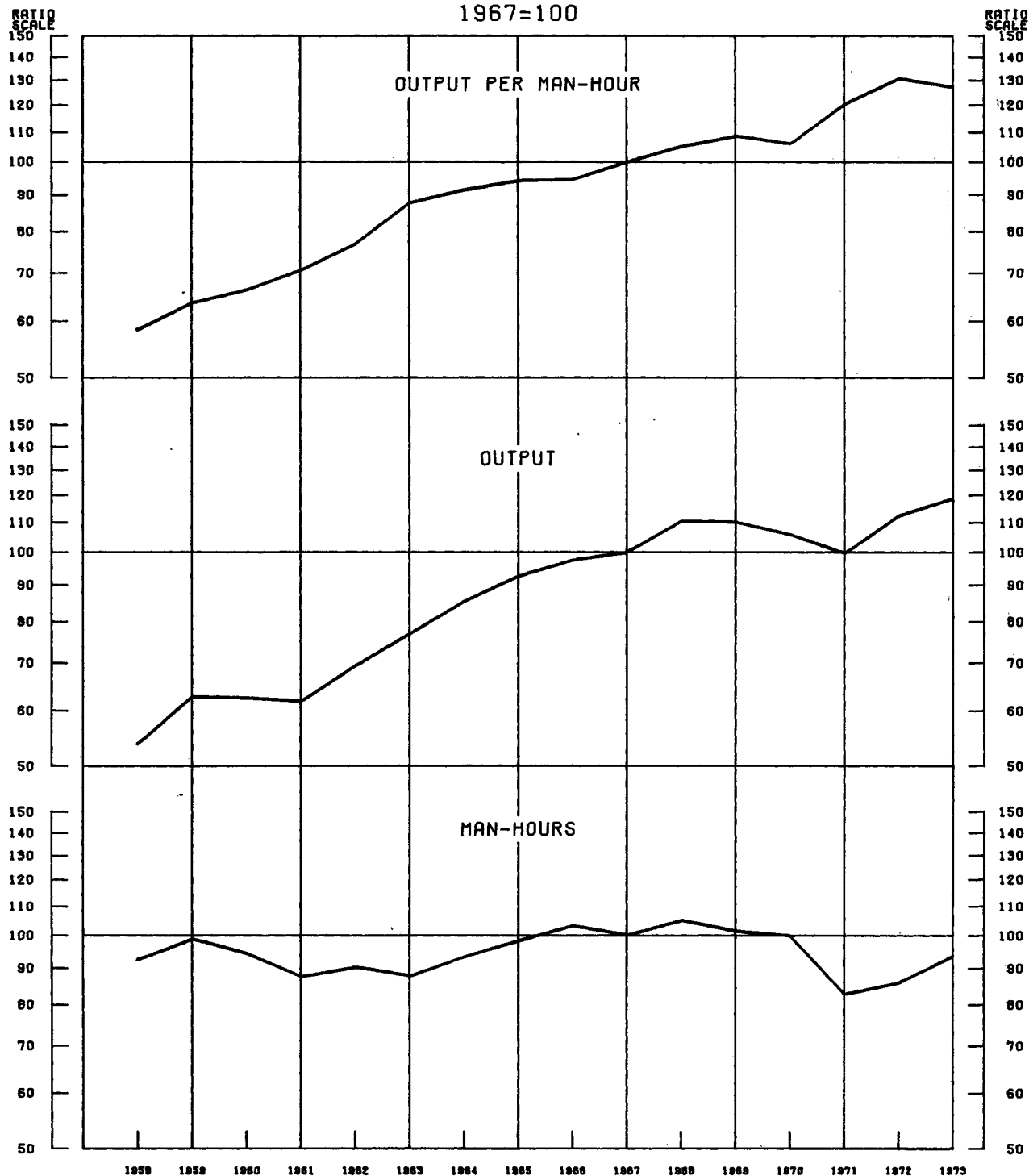
CHART 66
METAL CANS (SIC 341), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

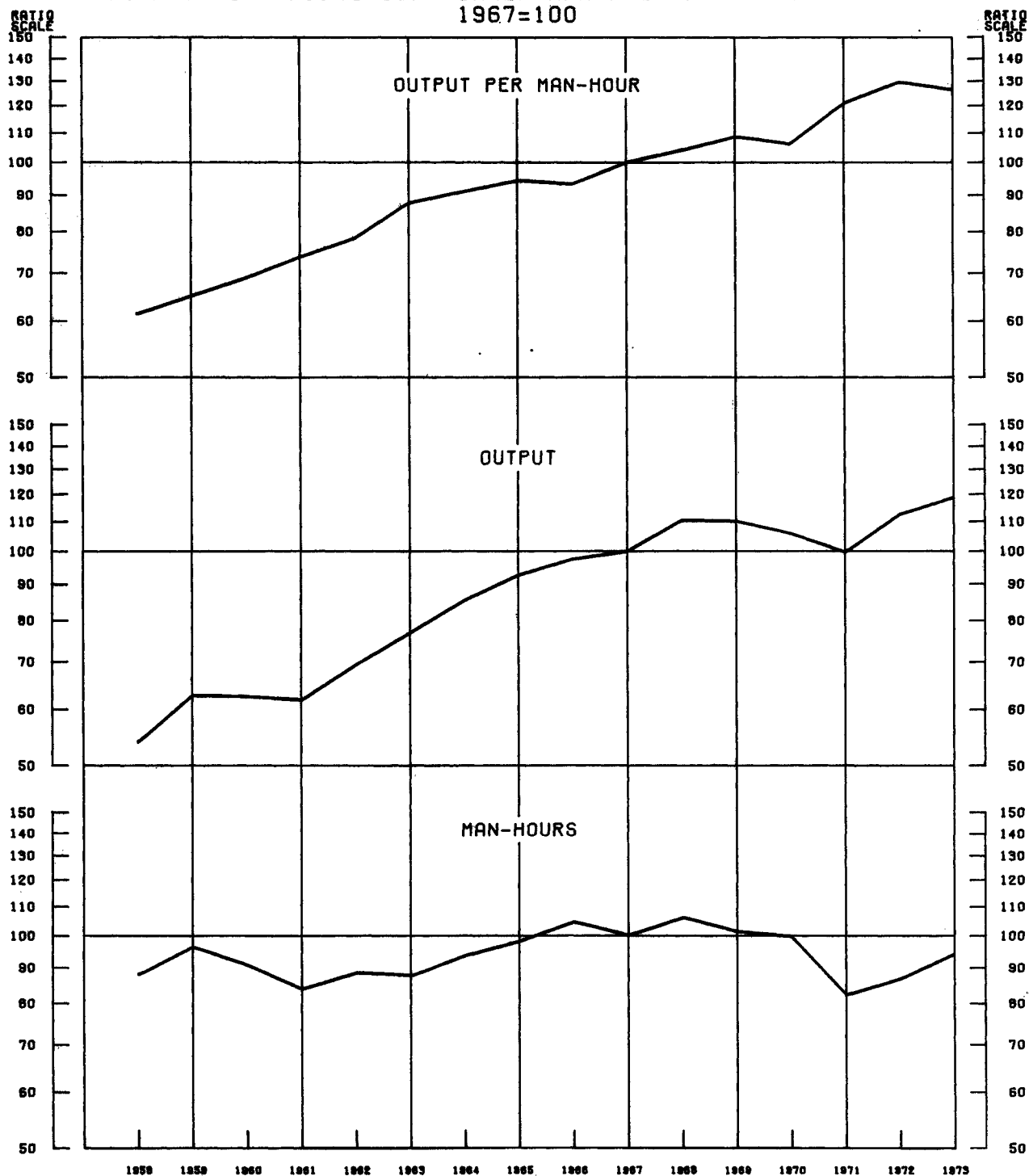
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 67
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-73
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



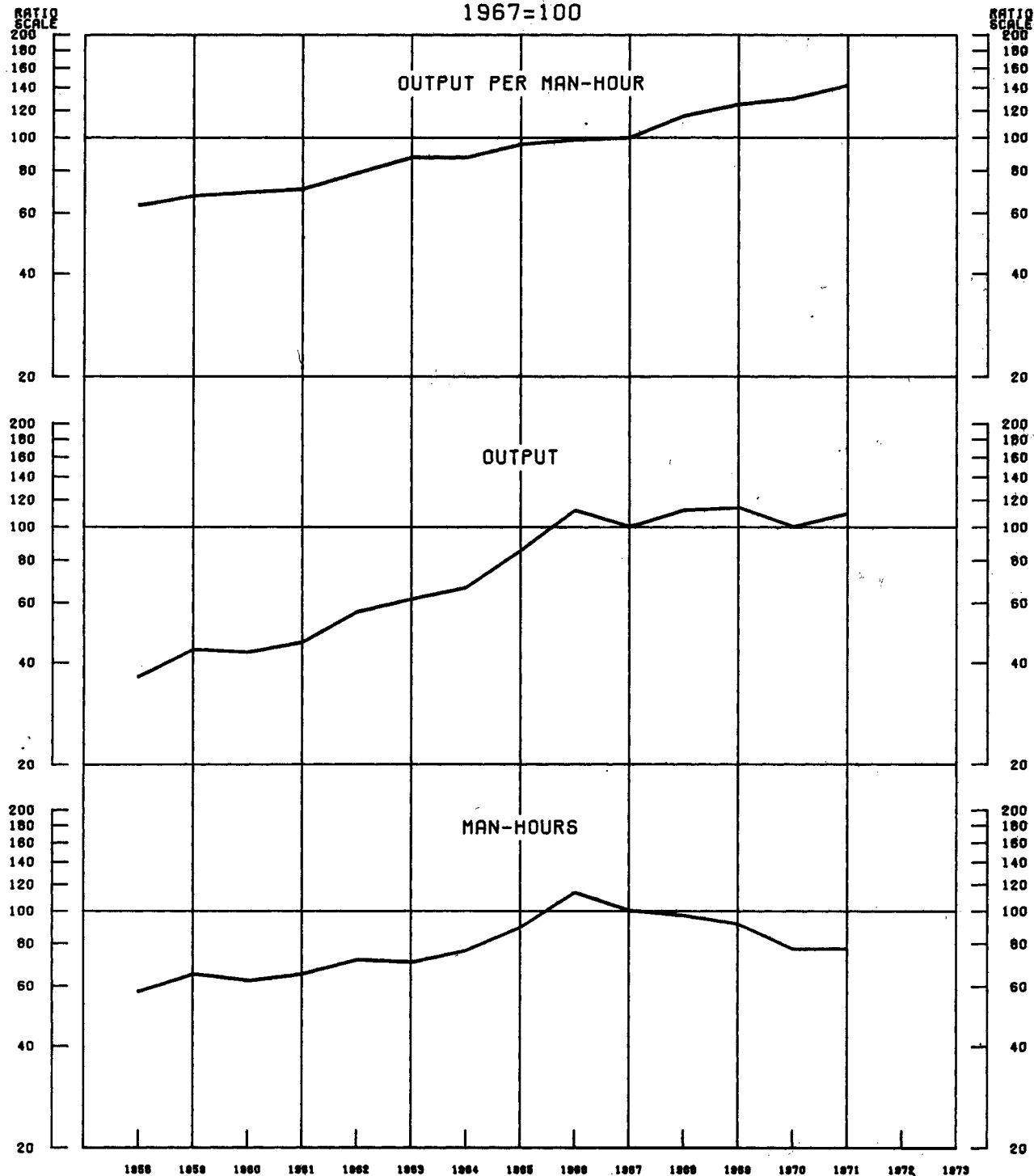
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 68
 MAJOR HOUSEHOLD APPLIANCES (SIC 3631, 3632, 3633, 3639), 1958-73
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



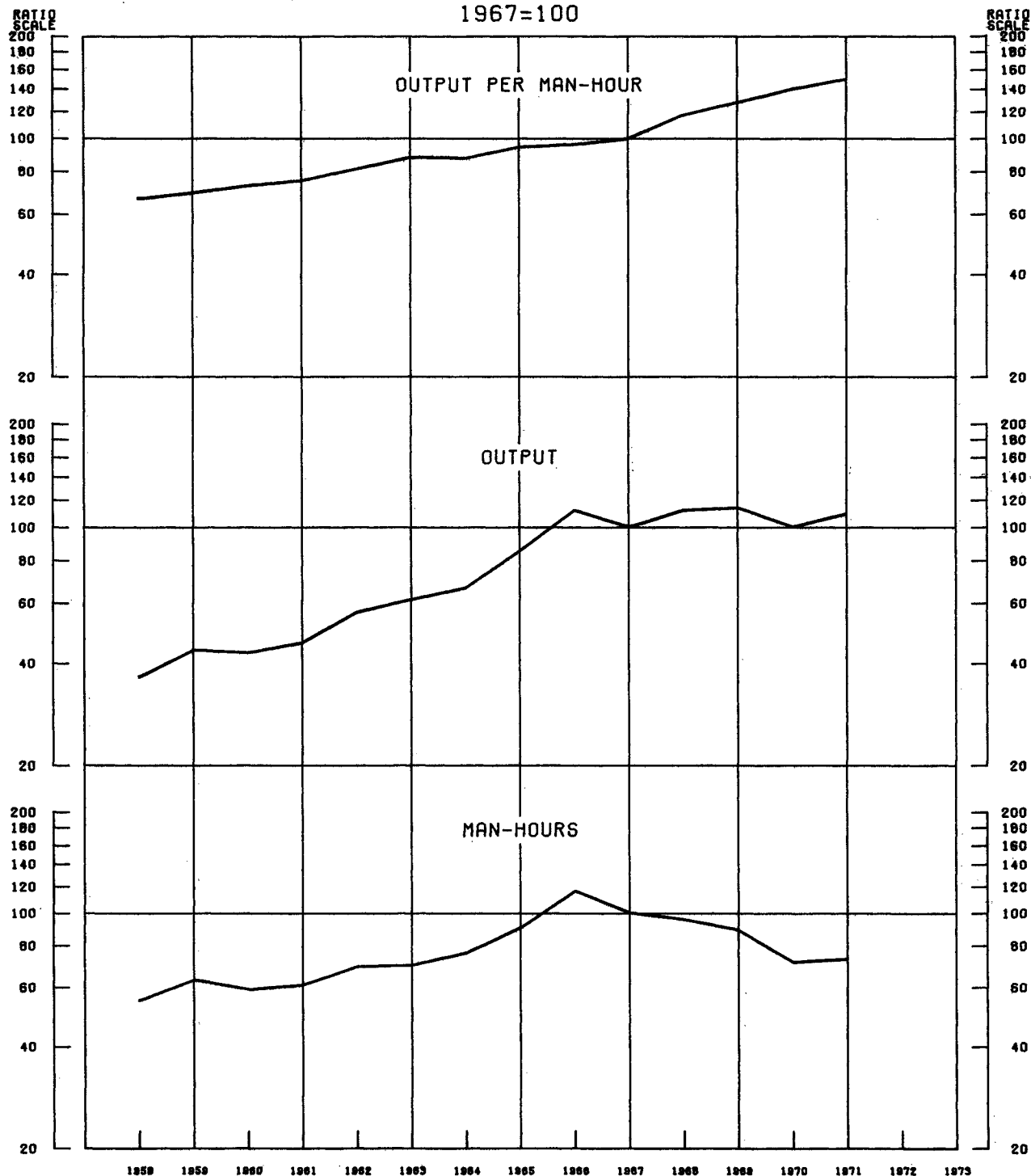
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 69
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-71
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



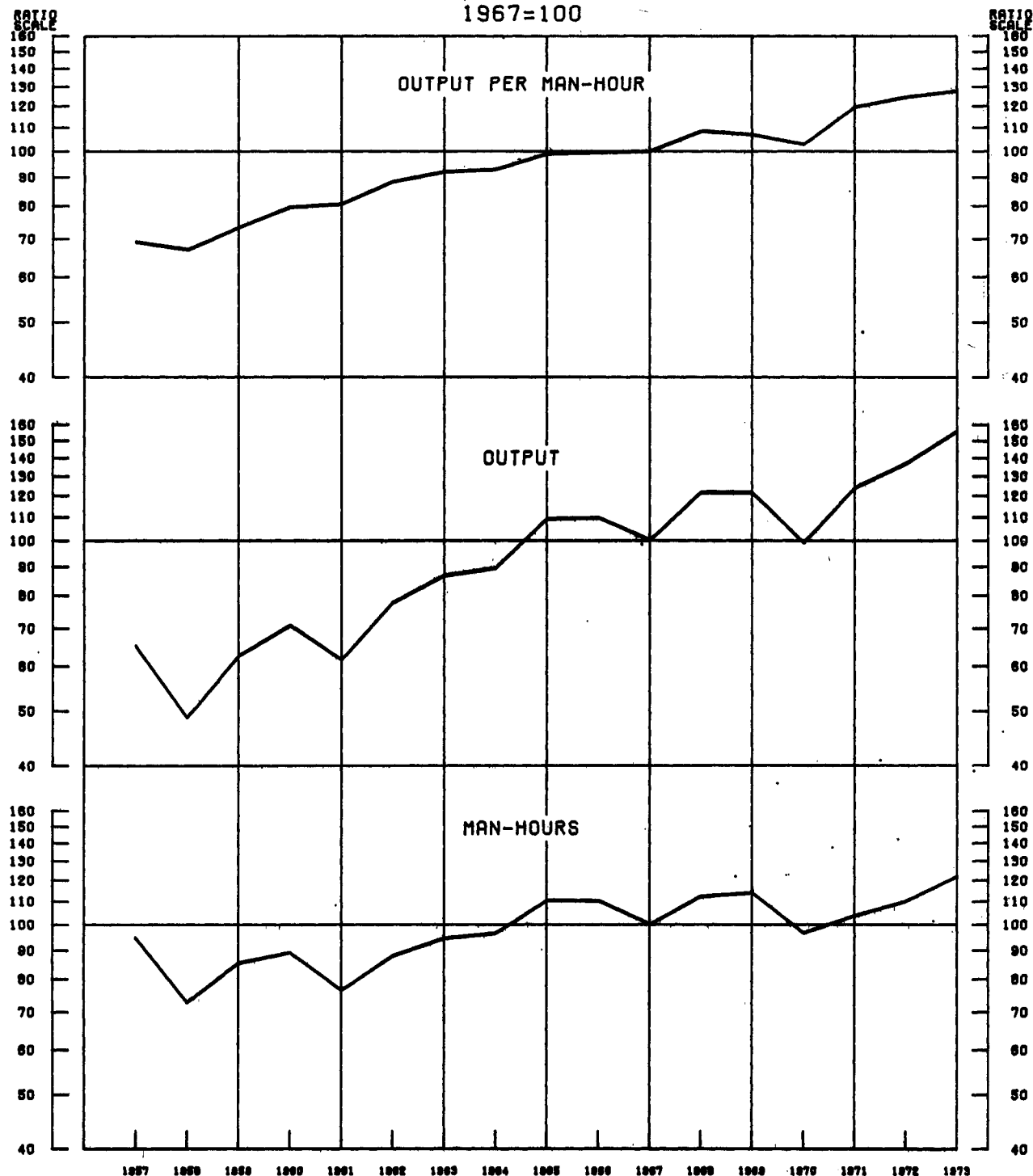
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 70
 RADIO AND TELEVISION RECEIVING SETS (SIC 3651), 1958-71
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



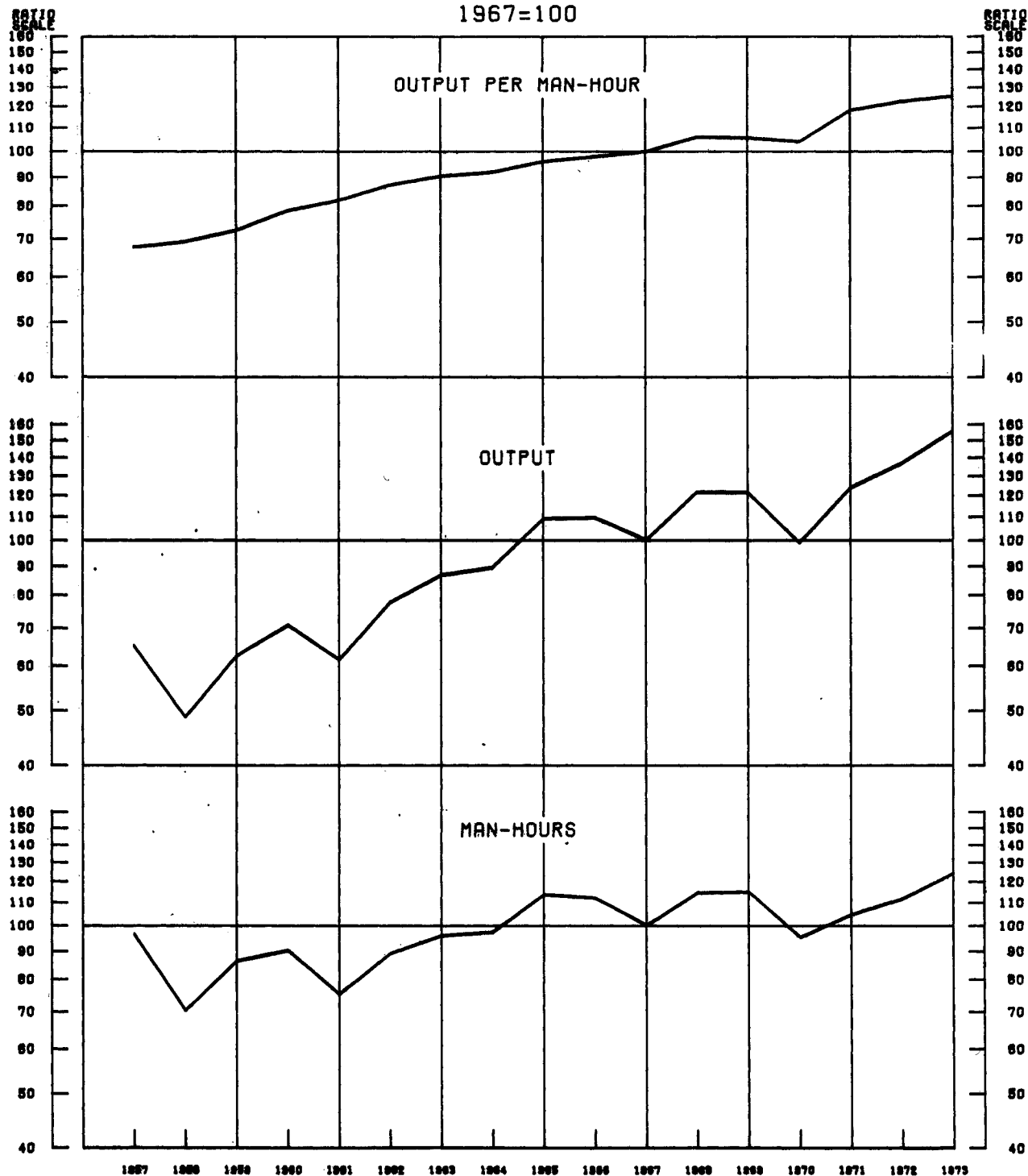
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 71
MOTOR VEHICLES AND EQUIPMENT (SIC 371), 1957-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



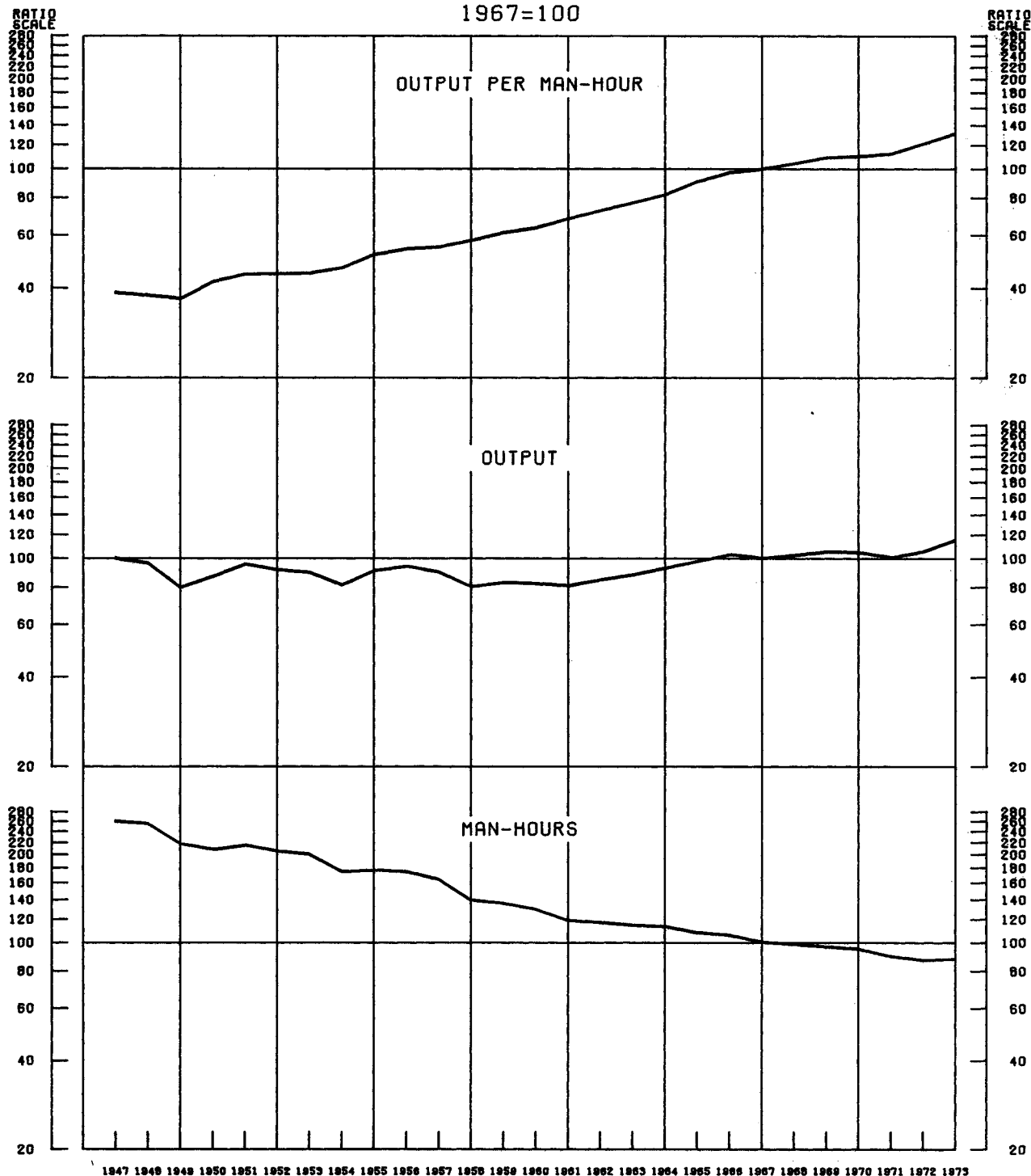
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 72
MOTOR VEHICLES AND EQUIPMENT (SIC 371), 1957-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



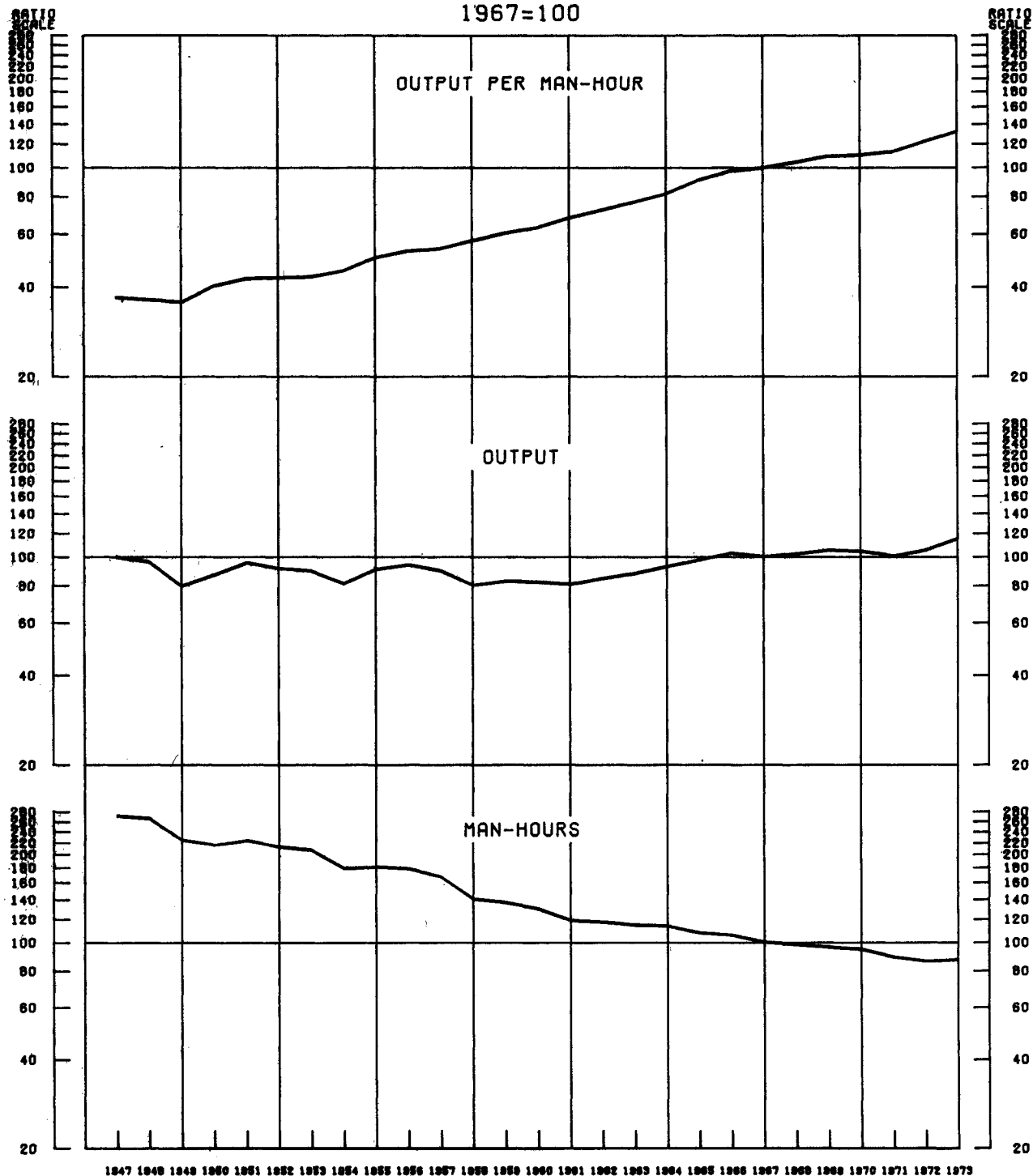
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 73
RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



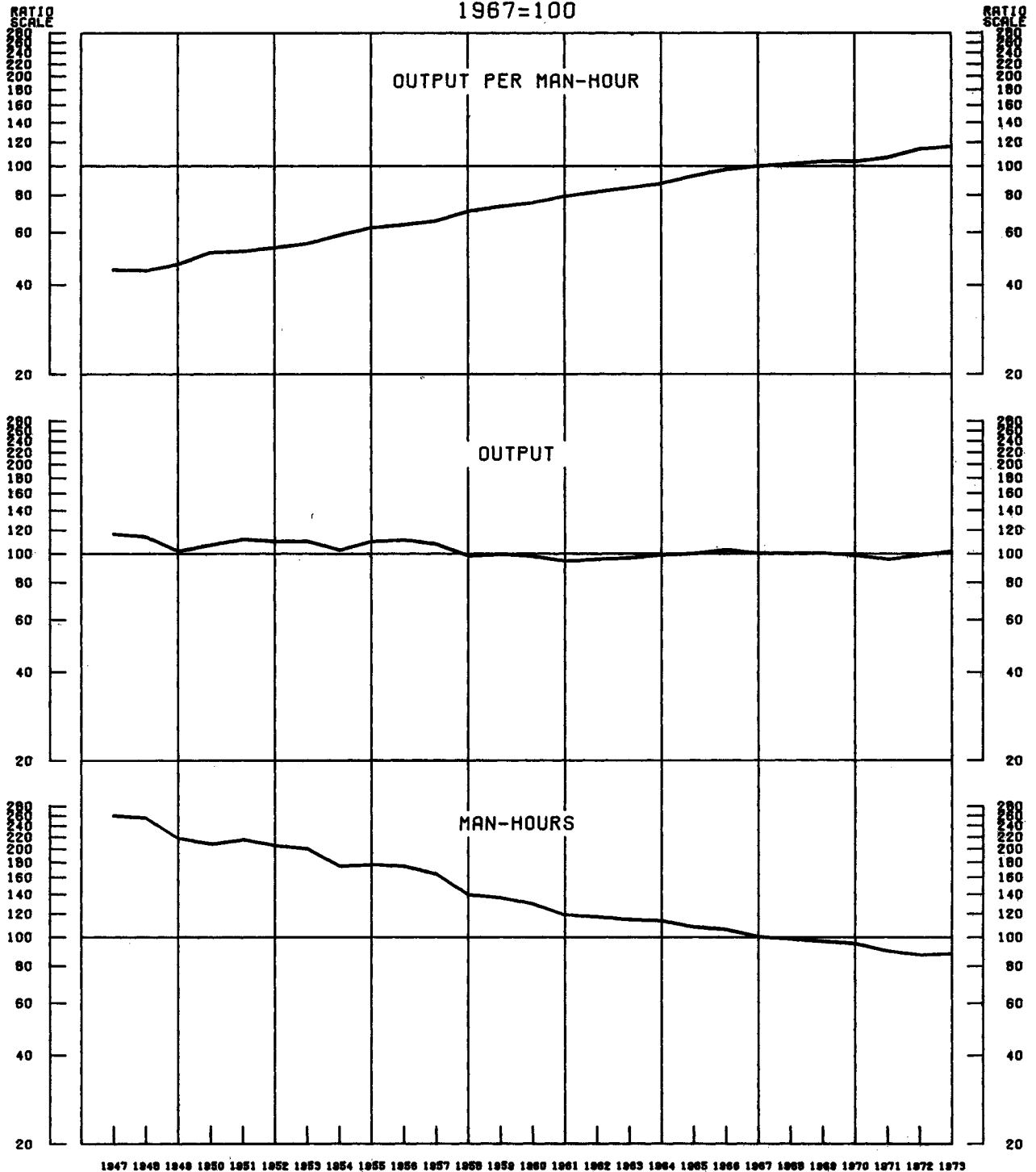
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 74
RAILROADS, REVENUE TRAFFIC (SIC 401, CLASS I), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



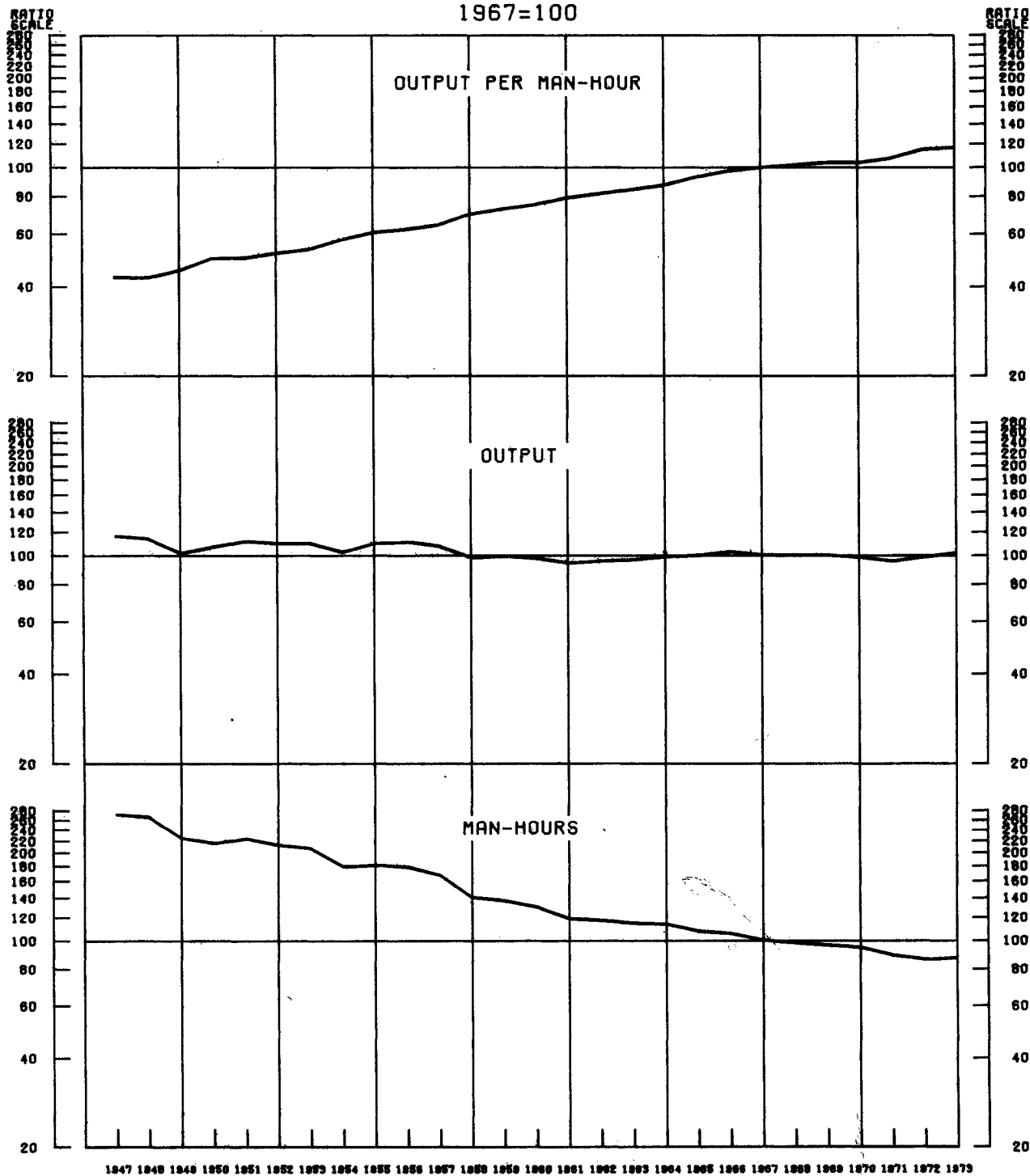
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 75
RAILROADS, CAR MILES (SIC 401, CLASS I), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



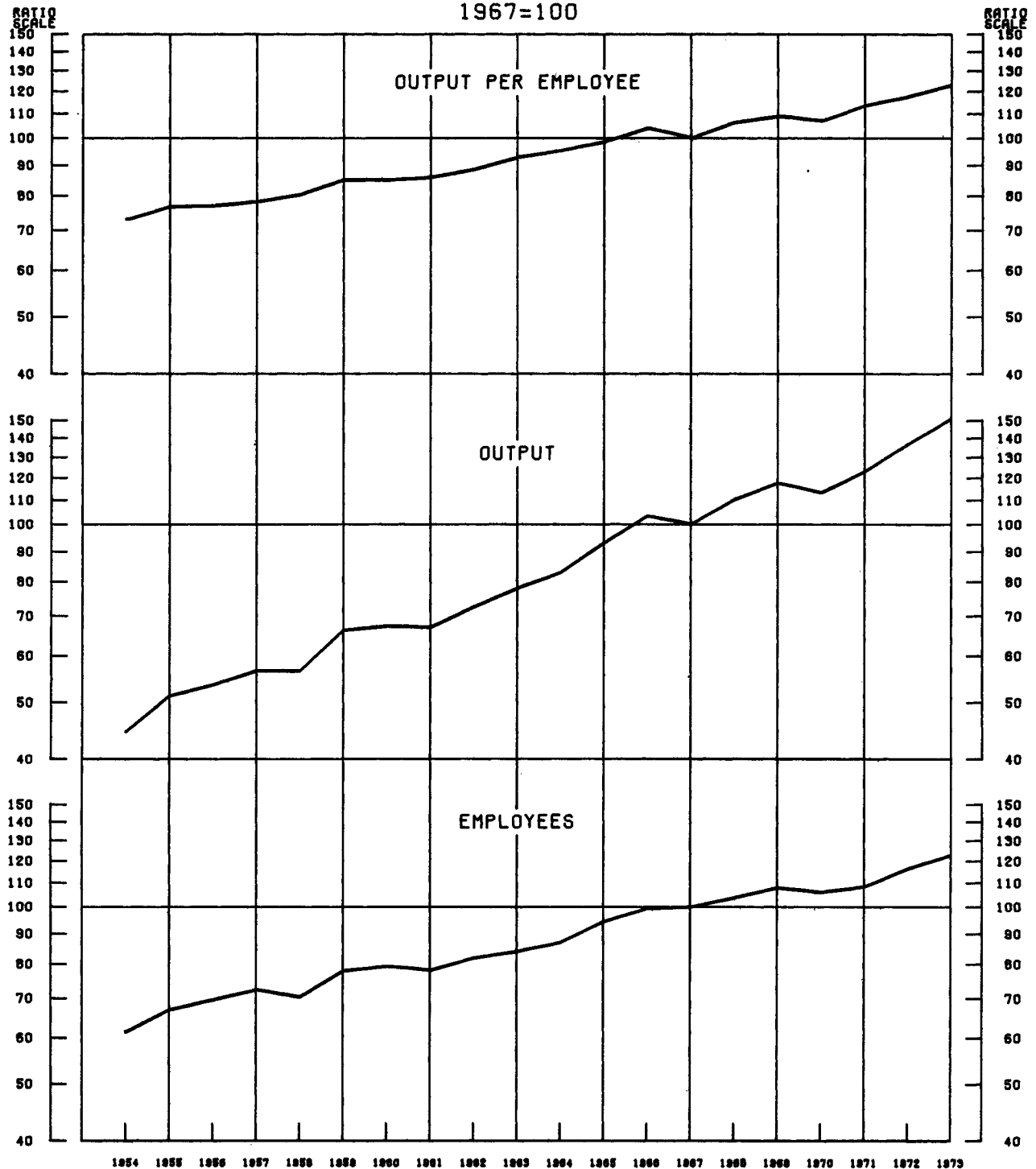
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 76
RAILROADS, CAR MILES (SIC 401, CLASS I), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



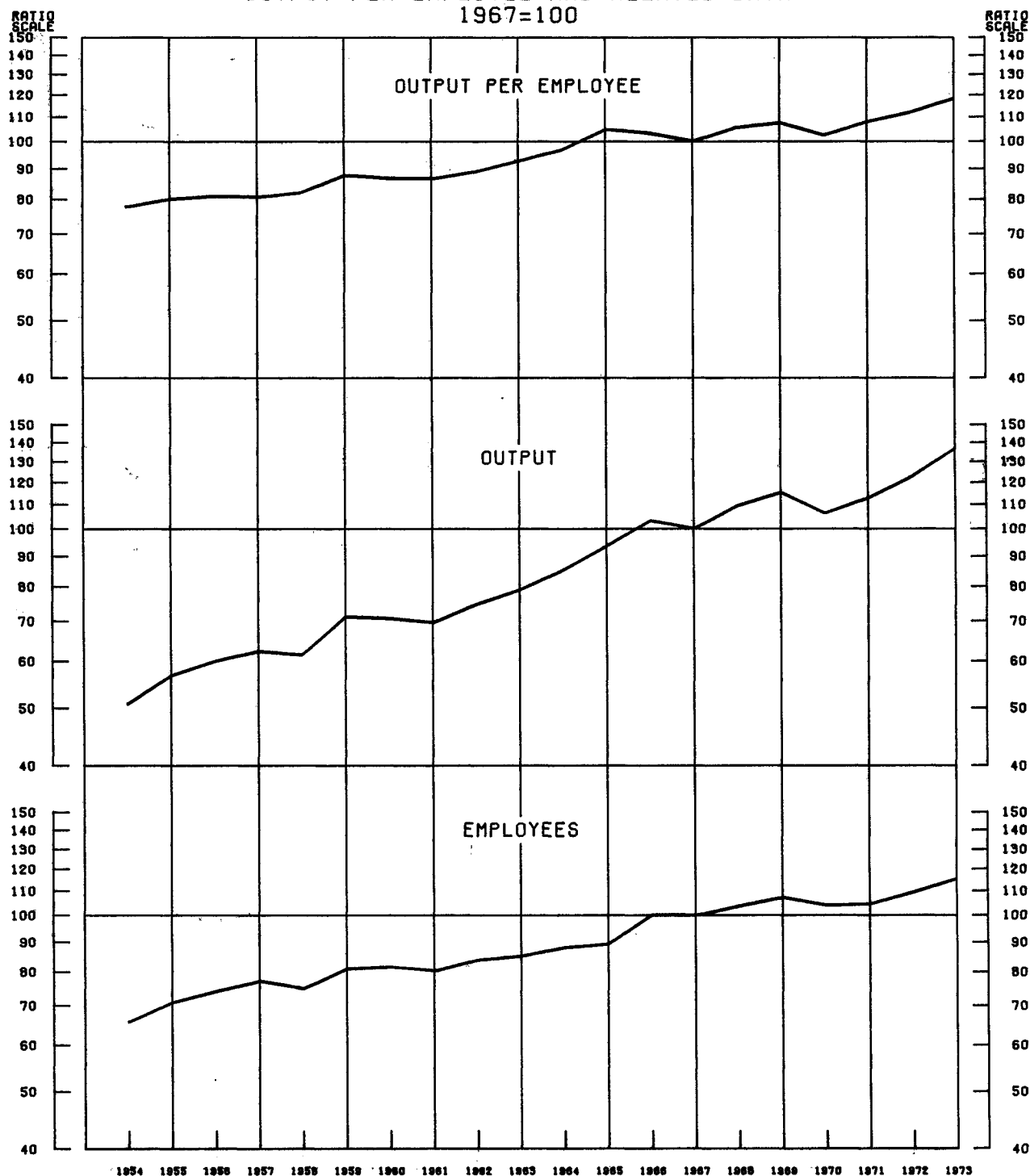
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 77
INTERCITY TRUCKING (SIC 4213 PT), 1954-73
OUTPUT PER EMPLOYEE AND RELATED DATA
1967=100



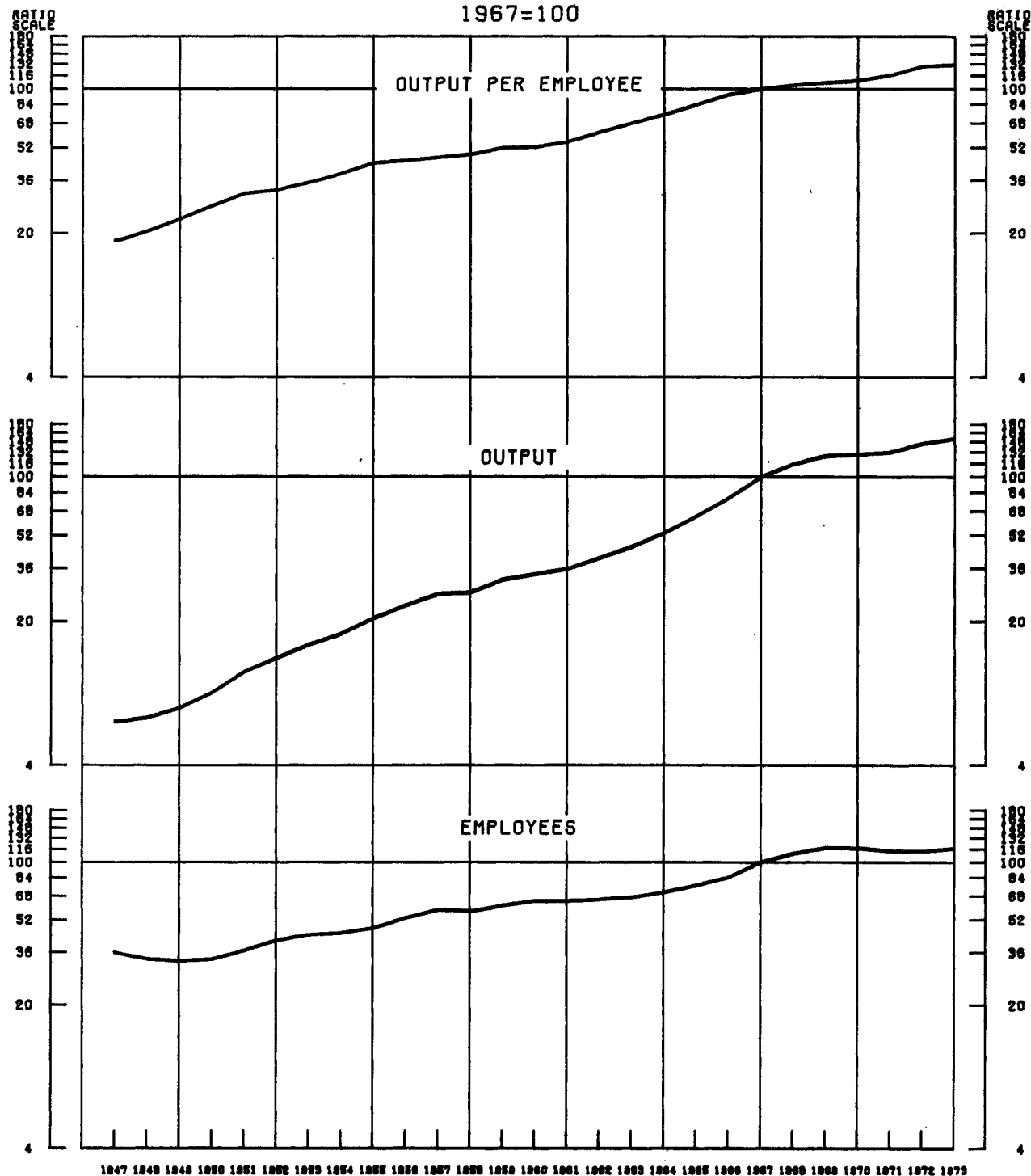
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 78
INTERCITY TRUCKING - GENERAL FREIGHT (SIC 4213 PT), 1954-73
OUTPUT PER EMPLOYEE AND RELATED DATA
1967=100



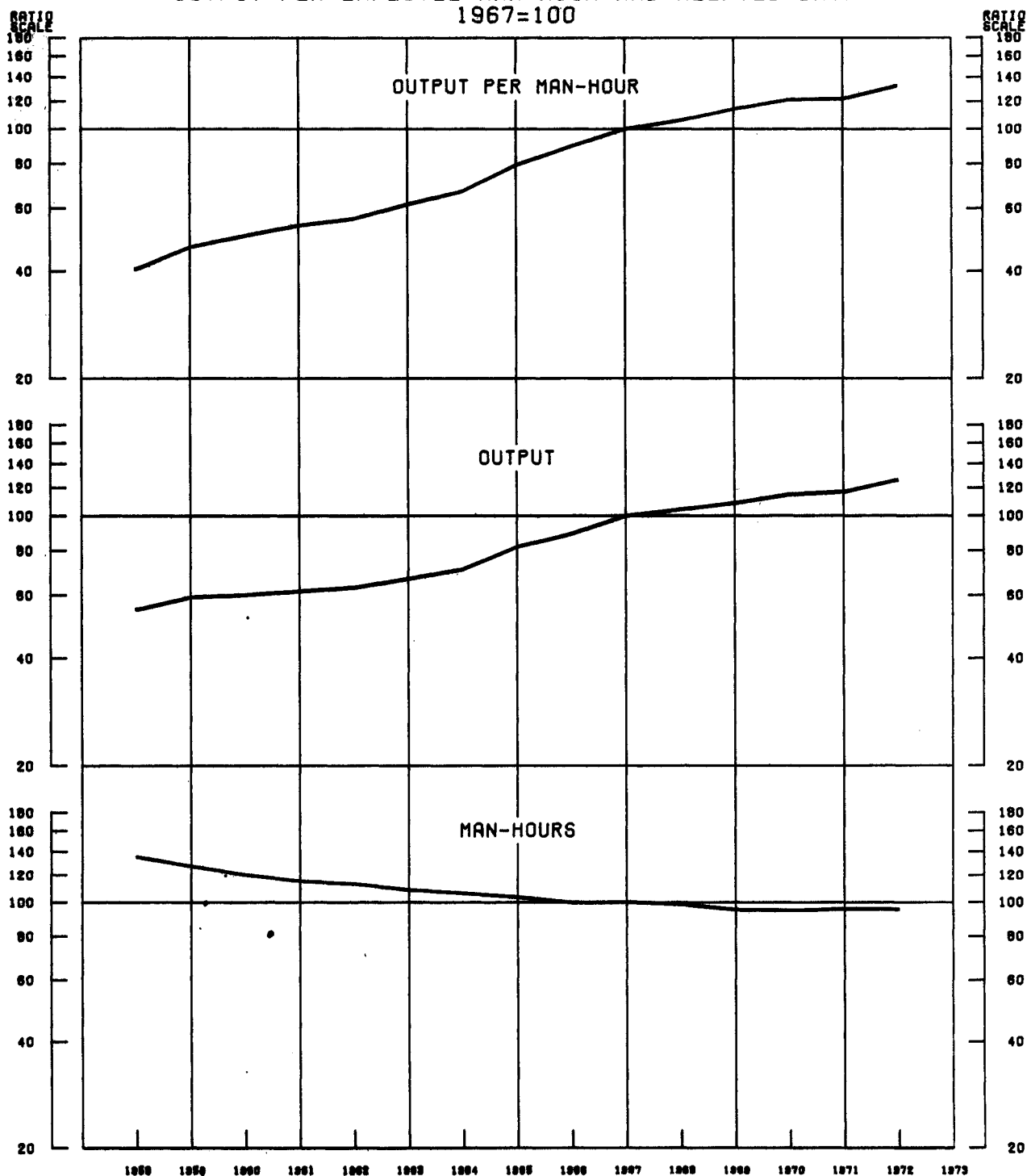
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 79
AIR TRANSPORTATION (SIC 451), 1947-73
OUTPUT PER EMPLOYEE AND RELATED DATA
1967=100



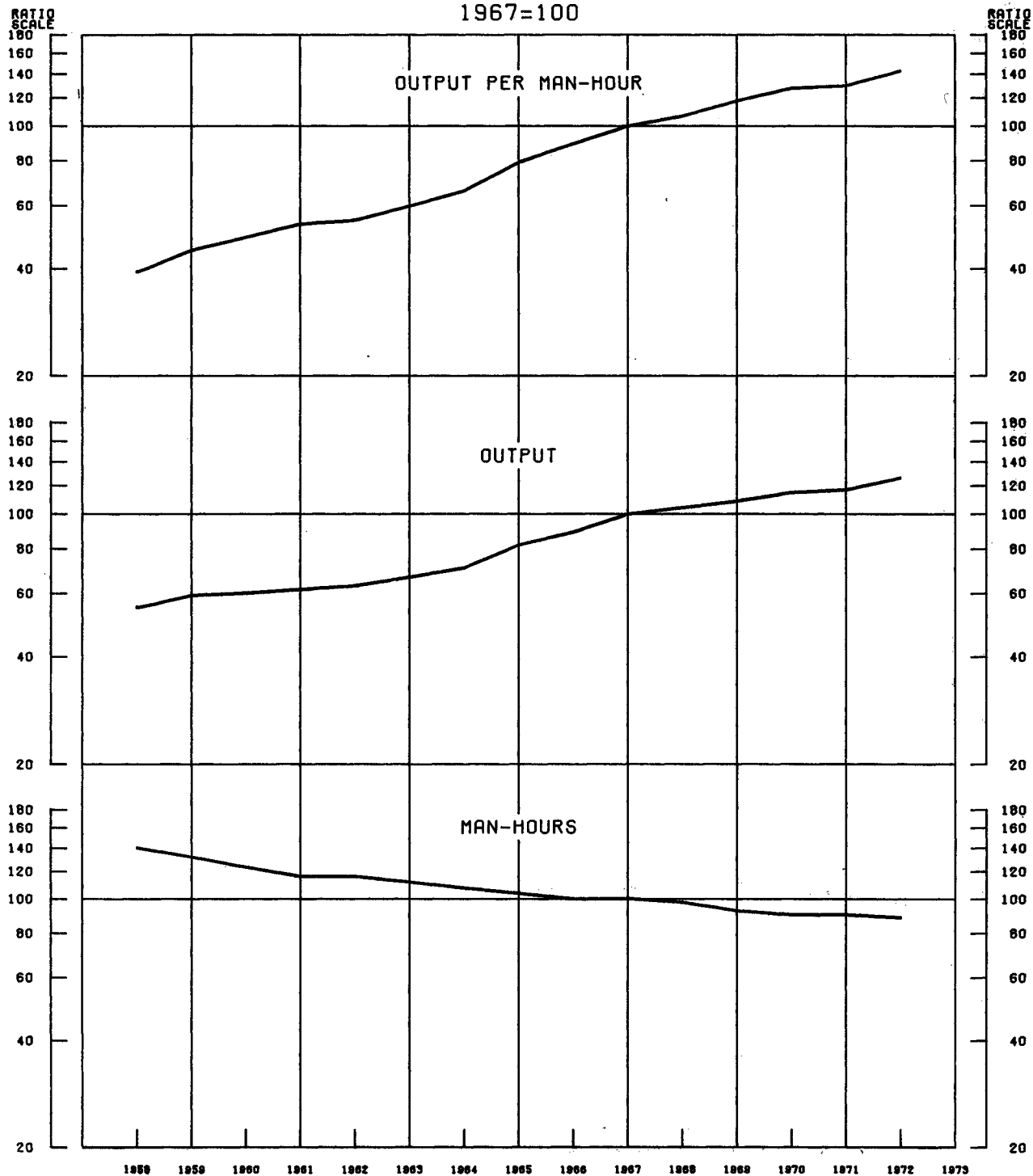
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 80
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-72
 OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
 1967=100



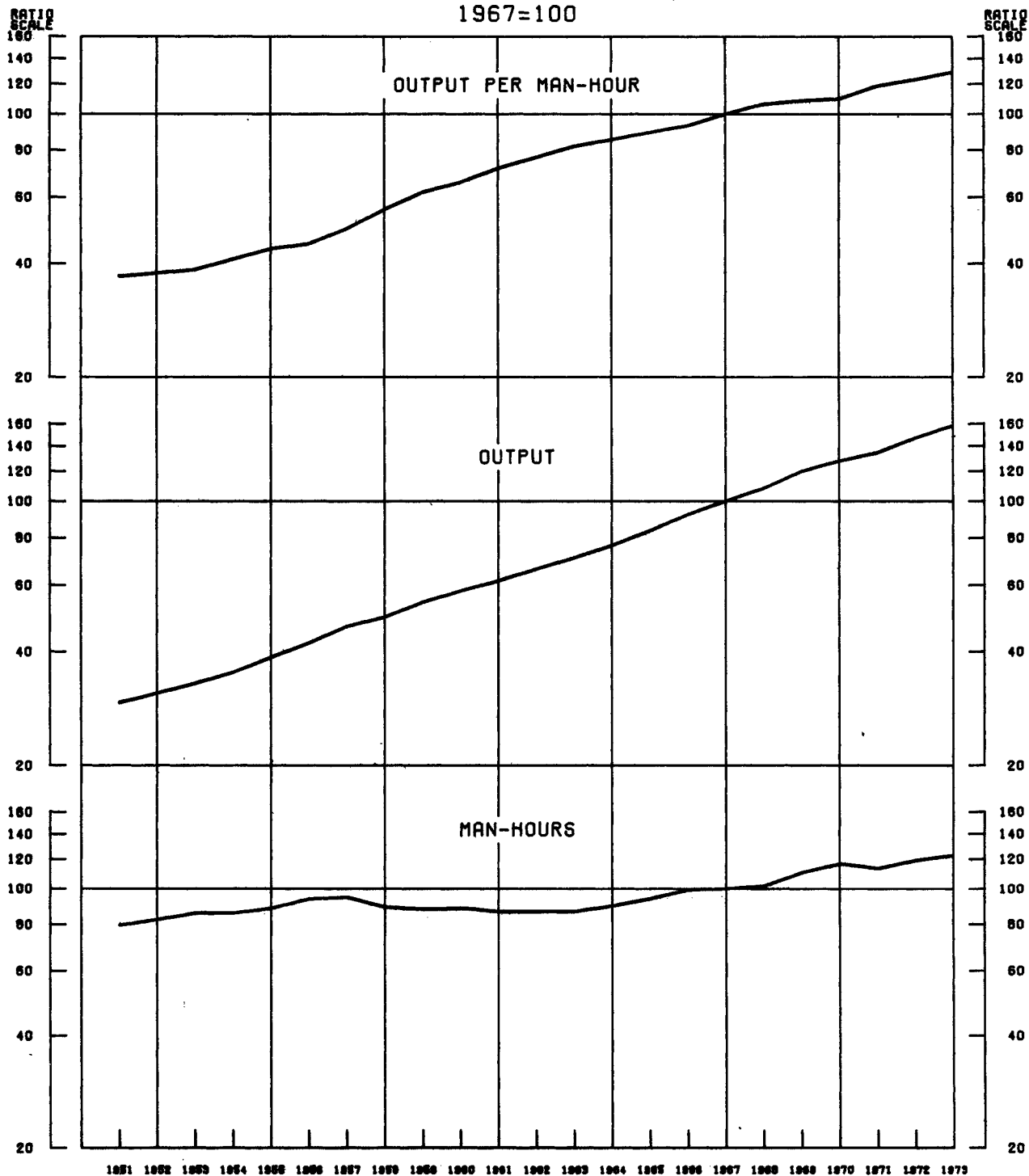
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 81
 PETROLEUM PIPELINES (SIC 4612, 4613), 1958-72
 OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
 1967=100



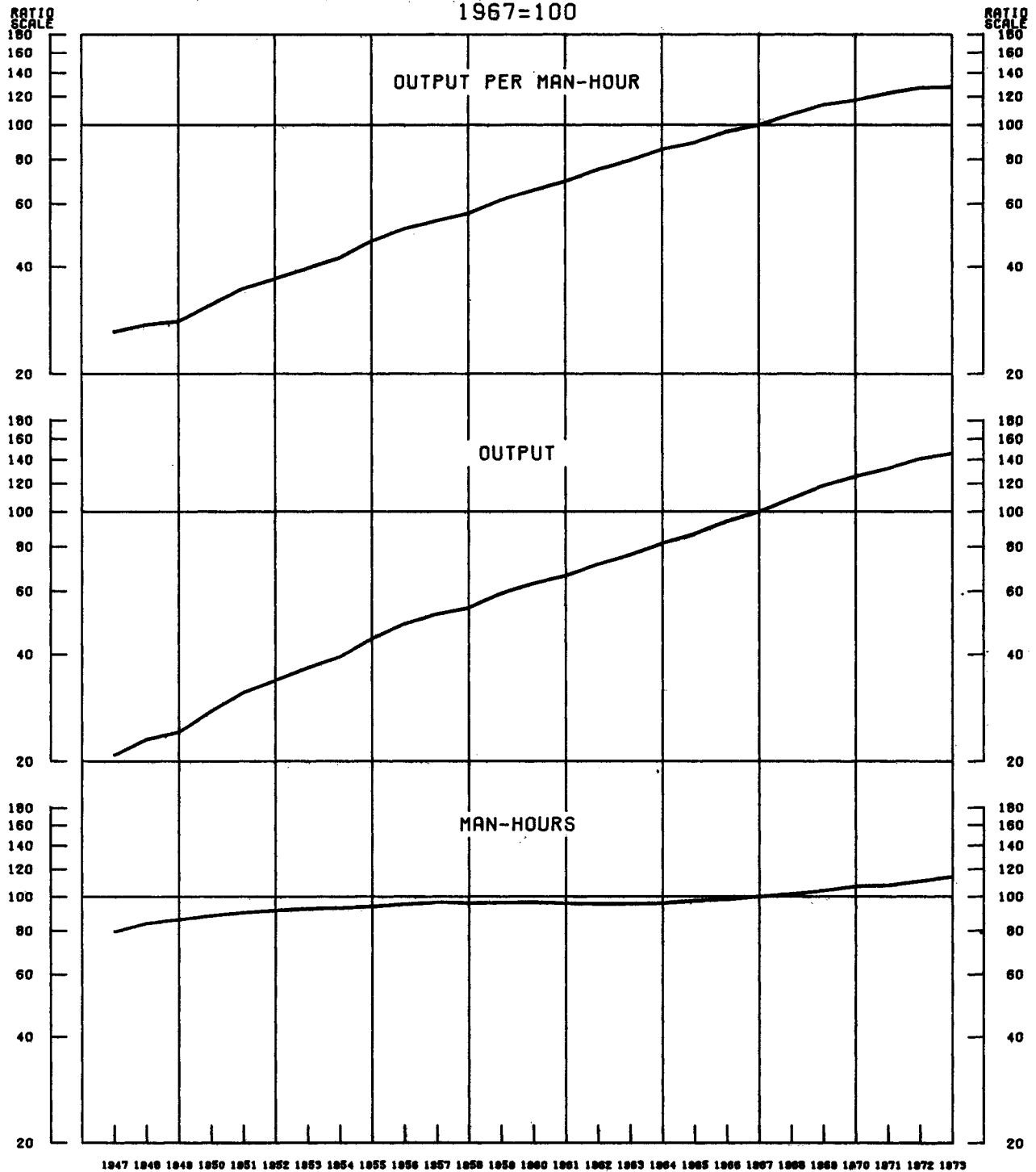
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 82
TELEPHONE COMMUNICATIONS (SIC 481). 1951-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



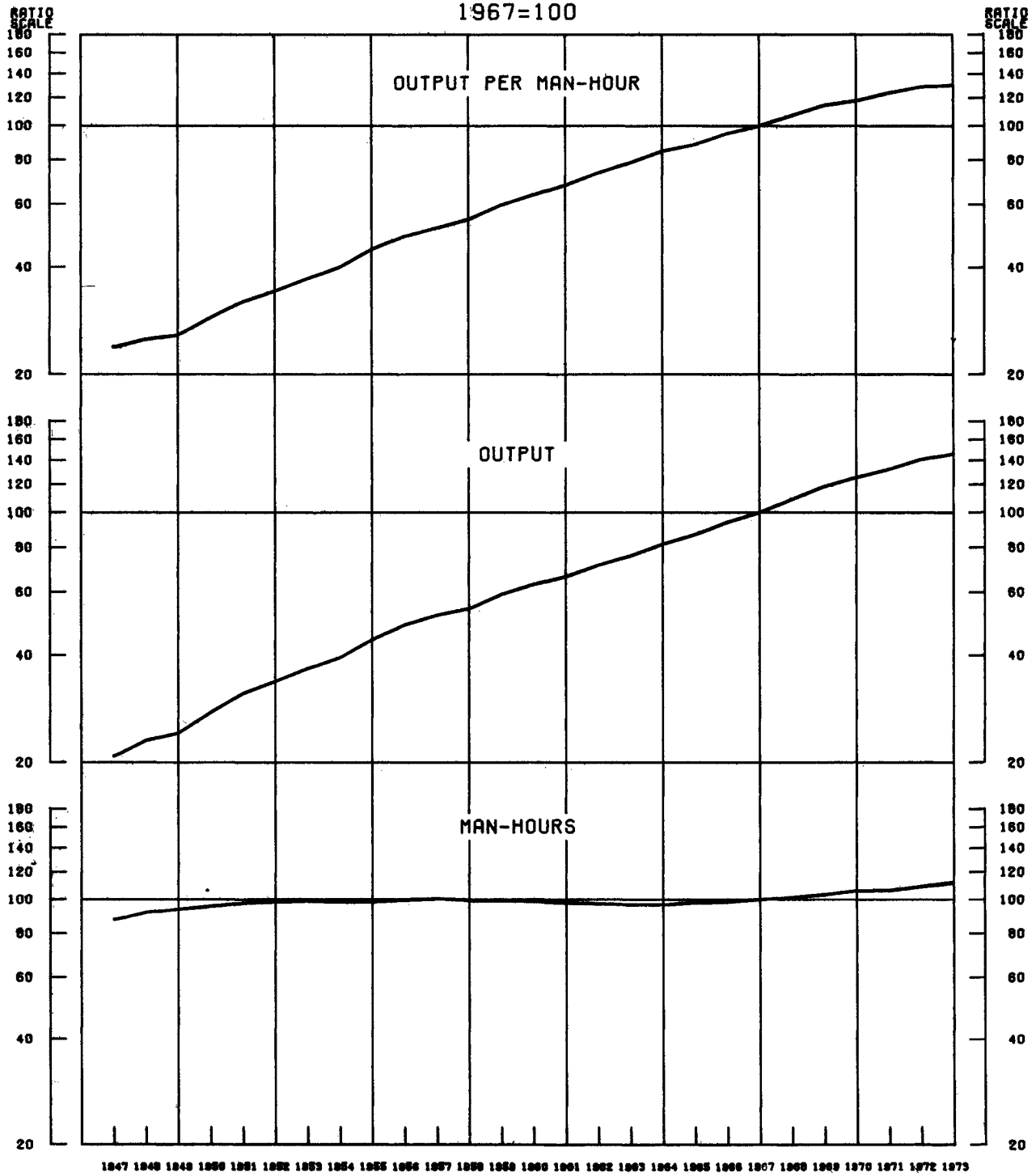
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 83
GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1947-73
OUTPUT PER EMPLOYEE MAN-HOUR AND RELATED DATA
1967=100



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

CHART 84
GAS AND ELECTRIC UTILITIES (SIC 491, 492, 493), 1947-73
OUTPUT PER PRODUCTION WORKER MAN-HOUR AND RELATED DATA
1967=100



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

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- Productivity and the Economy, BLS Bulletin 1779, 1973.*
- Productivity: A Selected, Annotated Bibliography, BLS Bulletin 1776, 1973.*
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"Technological Changes in the Printing and Publishing Industry," by Robert V. Critchlow, Monthly Labor Review, August 1970, pp. 3-9. Reprint 2687.

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Productivity: An International Perspective, BLS Bulletin 1811, 1974.*
International Comparisons of Productivity and Unit Labor Costs in Manufacturing, Preliminary Estimates for 1973, BLS Press Release, May 21, 1974.

"Unemployment in the United States and Eight Foreign Countries," by Constance Sorrentino and Joyanna Moy, Monthly Labor Review, January 1974, pp. 47-52. Reprint 2939.

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"Foreign Labor Conditions, International Comparisons, and Trade Research," reprint of Chapter 30 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1711, 1971, pp. 241-243.

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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," reprint of Chapter 28 of the Handbook of Methods for Surveys and Studies, BLS Bulletin 1711, 1971, pp. 235-238.

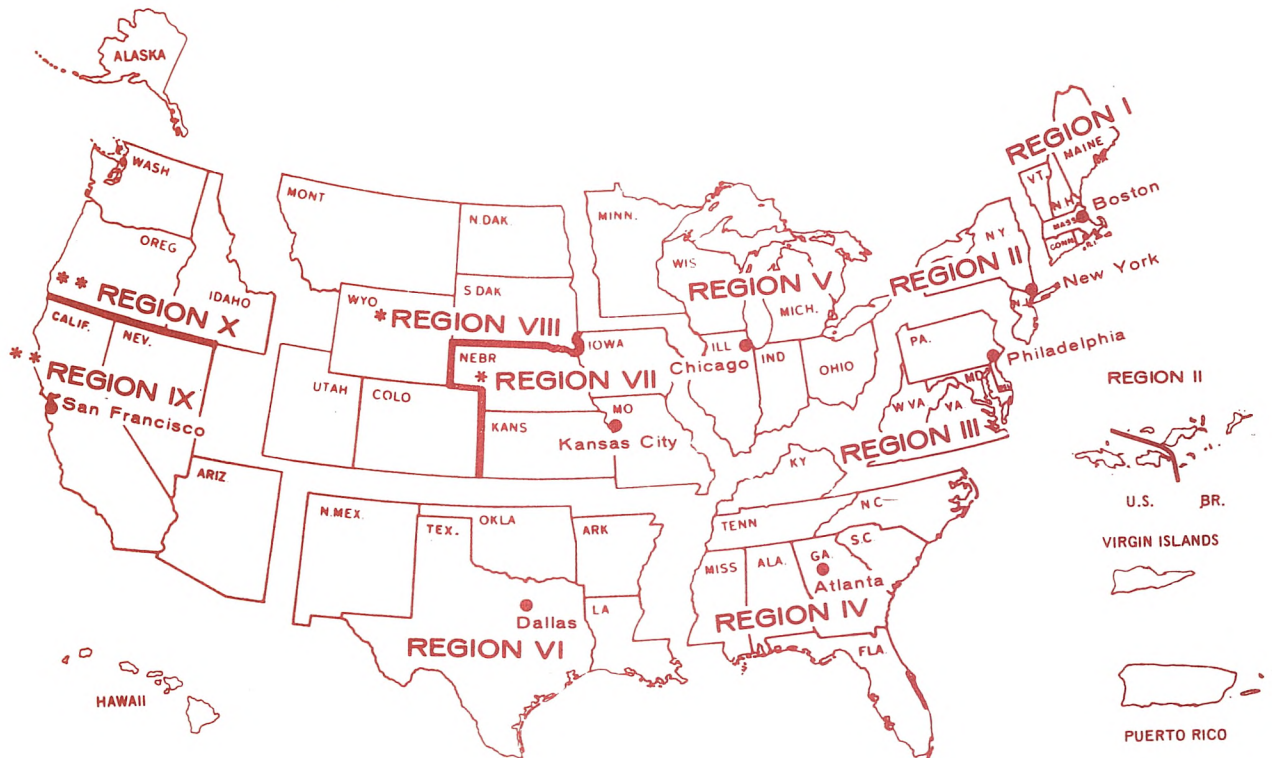
Labor and Material Requirements for Hospital and Nursing Home Construction, BLS Bulletin 1691, 1971.*

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