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**Indexes of Output
Per Man-Hour
Selected Industries
1972 Edition**

Bulletin 1758

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

1972

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**U.S. DEPARTMENT OF LABOR
James D. Hodgson, Secretary**

**Bureau of Labor Statistics
Geoffrey H. Moore, Commissioner**

1972



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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 1947–71. Indexes for the metal cans and bakery products industries are included for the first time. The table format has been changed in this issue. All indexes relating to output per man-hour and output per employee for each industry are now shown on the same table. The underlying data for each industry (output, man-hours and employment) are now shown on a separate table.

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 major sectors—farm, nonfarm, manufacturing and nonmanufacturing. Those measures show the relationship between gross product originating in the private economy or major sectors, and employment and man-hours. (These data are presented in the Bureau of Labor Statistics *Quarterly Review of Productivity and Costs*, and in the *Monthly Labor Review*, and *Employment and Earnings*.)

The productivity measures presented reflect the relationship between output in real terms and related labor time. 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 Edwin Adelman, Horst Brand, John Carey, Richard Carnes, John Ferris, Brian Friedman, John Henneberger, Jeffrey Hohenstein, Clyde Huffstutler, Jerry Jenkins, Marc Klaben, Elmer Persigehl, Martha Riche, Robert Robinowitz, and Andrea Sweeny, under the direction of Charles Ardolini and Arthur Herman.

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Highlights of Trends in Output Per Man-Hour

Current developments

More than three-fourths of the industries presented in this report registered increases in output per man-hour between 1970 and 1971, and about two-thirds grew at a higher rate than they had the previous year. Only six industries had actual declines in output per man-hour in 1971; in 1970, which was not a good year for productivity growth, 13 industries declined. This general expansion in productivity is consistent with the growth in output per man-hour in the economy as a whole in 1971.

Among the major industries covered, both motor vehicles and steel registered increases in output per man-hour in 1971. The motor vehicles industry recorded a very large gain—almost 13 percent, based on an expansion in output of about 25 percent and a growth in man-hours of 10 percent. Sales of motor vehicles rebounded sharply in 1971, compared with the poor showing in 1970, when there was a strike in the auto industry. About 2 million more automobiles, for example, were sold in 1971 than in the previous year. The steel industry, on the other hand, posted a gain of 3.3 percent in output per man-hour, reflecting a decline in output of 4.9 percent and an even sharper drop in man-hours of 7.9 percent. In 1971, the steel industry was subject to differential movements in demand over the course of the year which drastically affected output and man-hours. In the first half, demand was great and output was high, reflecting hedge buying in anticipation of a general steel strike in August. When the strike did not occur, demand dropped off sharply because of the large inventory buildup, and a severe decline in output and man-hours occurred in the latter part of the year. Other large industries recording gains in output per man-hour in 1971 were railroads, gas and electric utilities, air transportation, and paper, paperboard, and pulp mills.

Although short-term gains in output per man-hour usually are associated with output increases, the productivity gains in 1971 in many industries were associated with output declines. Man-hours declined substantially in these industries because of general cost cutting. Related to this, total employment registered declines in

more than three-fourths of the selected industries. Non-production workers declined in more than half of the industries.

Long-term trends

All of the industries for which data are available registered a long-term gain in output per man-hour over the past 25 years. (See table 1.) In the more recent period, 1960-71, the average annual growth rate ranged from a low of 0.3 percent for the footwear industry to a high of 10.1 percent for the petroleum pipelines industry. (See chart 1.) About two-thirds of the industries had rates that were equal to or greater than the 3.0 percent increase for the total private economy during this period.

Slightly more than half of the industries had higher growth rates during the 1960-71 period than during the previous years of the post-war period (1947-60). The higher average increase from 1960-71 in turn reflected large gains in output per man-hour in most industries during the first half of the 1960's, followed by a general slowdown in the latter part of the period. (For a graphic presentation of the long-term trends in output per man-hour and related data for the selected industries, see charts 2-74.)

New measures

Bakery Products. Output per man-hour in the bakery products industry grew at an average rate of 2.3 percent a year between 1947 and 1971. This rate was somewhat lower than the corresponding rate of 2.9 percent for manufacturing as a whole; nevertheless, it represented an increase of almost 60 percent in the industry's productivity over the 25-year period for which data are presented. Over the more current period, from 1960 to 1971, productivity grew at the higher rate of 3.0 percent.

Productivity growth in the bakery products industry reflected reductions in man-hours rather than increases in output that exceeded man-hour rises. This situation was the result of several interacting factors:

(1) On the production side, output grew at a low rate over the period. Per capita consumption of bakery

products declined from the record 1947 level, as Americans reduced the amount of high carbohydrate items contained in their diet. Demand for baked goods also was affected by competition from new products such as prepared mixes and frozen baked goods. These trends were partially offset by several favorable factors. Population growth was concentrated in the younger age groups, which have a high propensity to consume bakery products. Also, the trend toward wives working outside the home presumably favored the substitution of bakery products for home-baked goods.

(2) On the input side, the industry's capital investment grew substantially, and mechanization of both materials handling and product preparation was introduced on an increasingly wide scale. However, efforts to provide a greater variety of products prevented bakers from taking full advantage of new production systems, and rigidities in the organization of distribution and sales hampered efficiency.

Metal cans. Output per man-hour in the metal cans industry rose at an average rate of 2.4 percent a year between 1947 and 1971. Though lower than the corresponding rate for all manufacturing, this rate is somewhat higher than the 1.7 percent rate for glass containers, a packaging industry that is highly competitive with metal cans. Productivity grew at a rate of 2.0 percent a year from 1960 to 1971.

Productivity growth over the 25-year period encompassed a number of divergent trends in output per man-hour that can be attributed to changes in demand, technology, can-making metals, and product mix. Demand for metal cans increased relatively rapidly despite competition from other packaging materials such as fiber foil containers for frozen juice, non returnable bottles for beer and soft drinks, and plastic containers for antifreeze. At the same time, there was a significant shift in product mix, as production of beer and soft drink cans grew faster than that of most other metal cans. A further shift took place in can-making materials; aluminum and tin-free steel accounted for an increasingly greater share of production, although most cans still were produced from tinplate.

Productivity gains in the metal cans industry were aided by faster and more automatic can-making machinery, new side-seaming techniques for tin-free steel, and the growth of highly efficient plants designed to produce a small number of similar cans in long runs. On the other hand, gains in output per man-hour were retarded by the growth of complicated products such as aerosol cans and tear tops for beverage cans as well as by highly specific requirements of can users in terms of inspection, labeling, packing, and shipping.

TABLE 1. SELECTED INDUSTRIES: SIC CODES, 1971 EMPLOYMENT, AND AVERAGE ANNUAL RATES OF CHANGE IN OUTPUT PER MAN-HOUR, 1947-71 AND 1960-71

SIC Code	Industry title	1971 employment (thousands) ¹			Output per man-hour: Average annual rate of change (percent) ²					
		All employees	Production workers	Non-production workers	1947-71			1960-71		
					All employees	Production workers	Non-production workers ³	All employees	Production workers	Non-production workers ³
<u>Mining</u>										
101	Iron mining, crude ore-----	24	20	5	(*)	5.3	(*)	(*)	4.9	(*)
101	Iron mining, usable ore-----	24	20	5	(*)	2.2	(*)	(*)	2.8	(*)
102	Copper mining, crude ore-----	35	27	8	(*)	4.8	(*)	(*)	4.9	(*)
102	Copper mining, recoverable metal-----	35	27	8	(*)	3.0	(*)	(*)	2.4	(*)
11, 12	Coal mining-----	138	116	22	(*)	5.7	(*)	(*)	4.0	(*)
12	Bituminous coal and lignite mining-----	132	111	21	(*)	5.8	(*)	(*)	4.2	(*)
<u>Manufacturing</u>										
203	Canning and preserving-----	278	231	48	⁵ 3.3	⁵ 3.5	⁵ (2.1)	⁶ 2.3	⁶ 2.1	⁶ (3.4)
2041	Flour and other grain-mill products-----	28	21	7	4.0	4.2	(3.2)	4.1	4.4	(3.3)
205	Bakery products-----	271	159	112	2.3	2.6	(1.7)	3.0	2.5	(3.9)
206	Sugar-----	32	25	7	4.4	4.6	(3.3)	4.2	4.3	(3.8)
2071	Candy and other confectionery products-----	61	50	11	3.3	3.3	(3.4)	3.0	2.9	(3.4)
2082	Malt liquors-----	56	38	19	4.9	5.0	(4.5)	6.4	6.5	(6.1)
2086	Bottled and canned soft drinks-----	132	48	84	(*)	(*)	(*)	5.1	5.5	(4.9)
211, 212, 213	Tobacco products--Total-----	54	47	7	3.3	3.6	(1.0)	2.2	2.4	(0.3)
211, 213	Cigarettes, chewing and smoking tobacco-----	39	34	5	1.4	1.6	(-0.2)	1.3	1.6	(-0.3)
212	Cigars-----	15	14	2	5.9	6.2	(3.3)	3.9	4.1	(1.8)
2251, 2252	Hosiery-----	93	84	10	5.3	5.4	(4.2)	6.7	6.9	(4.9)
261, 262, 263, 266	Paper, paperboard and pulp mills-----	281	217	64	3.9	4.3	(1.9)	4.2	4.4	(3.3)
2653	Corrugated and solid fiber boxes-----	104	80	25	(*)	(*)	(*)	3.5	3.7	(2.7)
2823, 2824	Man-made fibers-----	109	77	32	(*)	(*)	(*)	5.5	5.3	(6.3)
291	Petroleum refining-----	153	90	63	5.8	6.2	(4.4)	5.5	5.8	(4.7)
301	Tires and inner tubes-----	126	89	37	4.1	4.3	(3.2)	3.7	3.7	(3.6)
314	Footwear-----	206	178	28	1.4	1.5	(1.1)	0.3	0.3	(7)
3221	Glass containers-----	74	65	9	1.7	1.7	(1.0)	2.7	2.8	(1.9)
324	Hydraulic cement-----	32	25	7	4.6	5.0	(2.2)	4.4	4.8	(2.6)
3271, 3272	Concrete products-----	86	67	19	⁵ 3.4	⁵ 3.7	⁵ (1.7)	⁶ 4.6	⁶ 4.7	⁶ (3.8)
331	Steel-----	581	460	121	1.7	2.1	(-0.3)	2.2	2.3	(1.7)
3321	Gray iron foundries-----	133	111	21	⁸ 2.3	⁸ 2.4	⁸ (1.8)	2.6	2.6	(2.9)
3331, 3332, 3333	Primary copper, lead, and zinc-----	29	23	6	2.1	2.3	(0.9)	1.2	1.3	(0.7)
3334	Primary aluminum-----	30	25	6	4.6	4.9	(3.6)	2.5	2.4	(2.8)
3352	Aluminum rolling and drawing-----	65	47	18	(*)	(*)	(*)	5.1	5.4	(4.3)
341	Metal cans-----	71	60	10	2.4	2.4	(2.3)	2.0	2.1	(1.5)
3631, 2, 3, 9	Major household appliances-----	108	86	22	(*)	(*)	(*)	4.7	4.4	(6.0)
3651	Radio and television receiving sets-----	91	70	21	(*)	(*)	(*)	6.9	7.0	(6.6)
371	Motor vehicles and equipment-----	874	676	197	(*)	(*)	(*)	3.0	3.0	(3.0)
<u>Other</u>										
401, Class I	Railroads, revenue traffic-----	578	512	66	5.2	5.4	2.9	5.6	5.7	4.9
401, Class I	Railroads, car-miles-----	578	512	66	4.0	4.2	1.7	3.3	3.4	2.6
451	Air transportation-----	289	(*)	(*)	⁹ 7.7	(*)	(*)	⁹ 8.0	(*)	(*)
4612, 4613	Petroleum pipelines-----	18	¹⁰ 14	¹¹ 4	(*)	(*)	(*)	^{6,10} 10.1	^{6,10} 10.8	(*)
491, 492, 493	Gas and electric utilities-----	654	¹⁰ 558	¹¹ 96	6.9	¹⁰ 7.4	(*)	5.9	¹⁰ 6.2	(*)

¹ Because of rounding, the sum of production workers and nonproduction 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 1947-70.

⁶ Average annual rate of change is for 1960-70.

⁷ Less than .05 percent.

⁸ Average annual rate of change is for 1954-71.

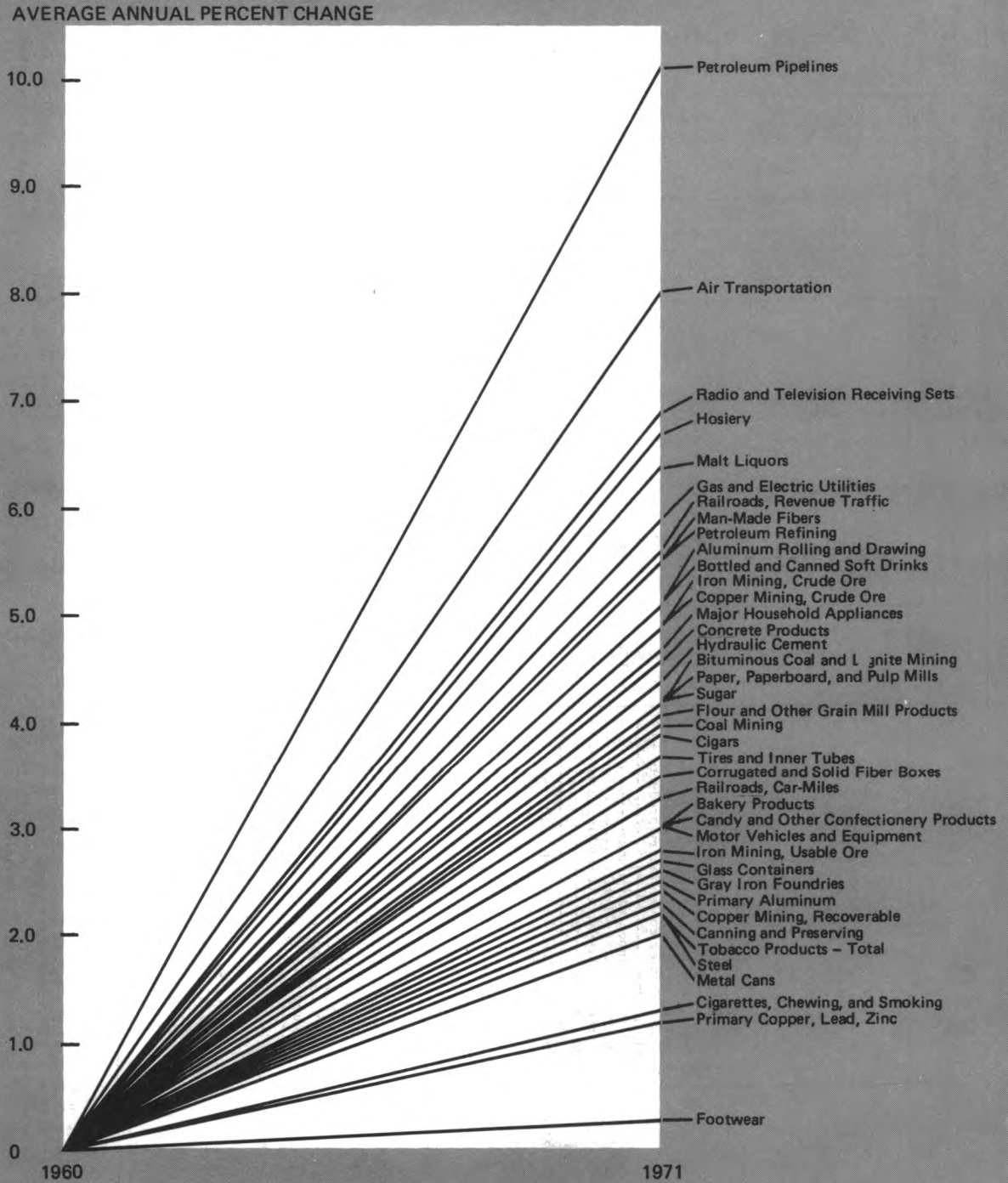
⁹ Output per employee.

¹⁰ Nonsupervisory personnel.

¹¹ Supervisory personnel and force account construction workers.

Chart 1.

Growth in output per man-hour in selected industries, 1960 -71



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 1967-71, 1967 weights. For three industries, railroads, iron mining, and copper mining, two alternative output 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 Census¹ 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.² 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.³ Although both the Bureau 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.⁴

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

¹ For those industries using the Bureau of the Census as the primary source of employment and man-hours, the 1971 indexes are developed by linking in information from BLS, because 1971 Census data are not yet available.

² Indexes for the railroad transportation industry are based on data from the Interstate Commerce Commission (ICC), and are related primarily to hours at work.

³ 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."

⁴ The ICC publishes all employee man-hours for the railroad transportation industry.

various sources which are identified in the accompanying tables.

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 for Surveys and Studies*, 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.....	117.3	114.3	117.1	104.4
1971 ^{3/}	119.6	112.6	115.3	103.2
AVERAGE ANNUAL RATES (PERCENT)				
1947-71.....	5.3	4.8	5.4	2.0
1960-71.....	4.9	5.7	5.6	6.2

^{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/} 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	98.7	101.3	98.9	110.9
1971 ^{2/}	107.6	90.0	95.6	93.3	104.3
AVERAGE ANNUAL RATES (PERCENT)					
1947-71....	2.3	-2.9	-2.4	-2.9	0.2
1960-71....	3.6	-1.3	-2.1	-1.9	-2.5

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.....	108.0	105.2	107.8	96.1
1971 ^{3/}	108.9	102.5	105.0	94.0
AVERAGE ANNUAL RATES (PERCENT)				
1947-71....	2.2	1.7	2.3	-1.0
1960-71....	2.8	3.6	3.5	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/} 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	98.7	101.3	98.9	110.9
1971 2/.....	98.0	90.0	95.6	93.3	104.3
AVERAGE ANNUAL RATES (PERCENT)					
1947-71.....	-0.8	-2.9	-2.4	-2.9	0.2
1960-71.....	1.5	-1.3	-2.1	-1.9	-2.5

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 ^{1/}		OUTPUT PER EMPLOYEE ^{1/}	
	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	63.3	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 ^{3/}	133.8	136.8	133.5	146.6
AVERAGE ANNUAL RATES (PERCENT)				
1947-71....	4.8	4.4	4.7	3.5
1960-71....	4.9	4.9	5.2	3.8

^{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. 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.....	74.9	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.....	174.1	151.5	132.3	140.7	108.6
1970.....	202.8	159.8	144.5	153.7	119.0
1971 ^{3/}	187.1	139.8	136.8	140.1	127.6
AVERAGE ANNUAL RATES (PERCENT)					
1947-71....	4.5	-0.3	0.1	-0.2	1.0
1960-71....	5.4	0.5	0.5	0.2	1.6

^{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 ^{3/}	114.9	117.5	114.7	125.9
AVERAGE ANNUAL RATES (PERCENT)				
1947-71.....	3.0	2.6	2.9	1.7
1960-71.....	2.4	2.4	2.7	1.4

^{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. 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 ^{3/}	160.7	139.8	136.8	140.1	127.6
AVERAGE ANNUAL RATES (PERCENT)					
1947-71.....	2.7	-0.3	0.1	-0.2	1.0
1960-71.....	3.0	0.5	0.5	0.2	1.6

^{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.....	103.2	103.4	103.8	101.3
1971 ^{2/}	100.9	98.3	101.2	81.6
	AVERAGE ANNUAL RATES (PERCENT)			
1947-71....	5.7	6.2	6.6	2.5
1960-71....	4.0	5.2	5.3	4.3

^{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/} 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	104.2	104.0	103.6	106.1
1971 ^{1/}	97.4	96.5	99.1	96.2	119.4
AVERAGE ANNUAL RATES (PERCENT)					
1947-71....	-0.4	-5.8	-6.2	-6.6	-2.9
1960-71....	2.6	-1.3	-2.4	-2.5	-1.6

^{1/} Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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	78.1	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.....	103.8	103.7	104.0	101.3
1971 ^{2/}	102.5	99.0	102.2	80.9
AVERAGE ANNUAL RATES (PERCENT)				
1947-71....	5.8	6.3	6.7	2.5
1960-71....	4.2	5.3	5.4	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 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	107.7	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	105.1	105.2	104.9	107.7
1971 ¹ /.....	99.2	96.8	100.2	97.1	122.6
AVERAGE ANNUAL RATES (PERCENT)					
1947-71....	0.3	-5.2	-5.6	-6.0	-2.2
1960-71....	3.4	-0.8	-1.9	-2.0	-1.0

1/ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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 ^{4/}	105.8	106.0	(104.5)	106.8	107.2	104.9
AVERAGE ANNUAL RATES (PERCENT)						
1947-70.....	3.3	3.5	(2.1)	3.5	3.7	1.7
1960-70.....	2.3	2.1	(3.4)	2.8	2.7	3.3

^{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/} Not available.

^{4/} Preliminary.

Source: Output based on data from National Canners Association, U.S. Department of Agriculture, and 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 ^{1/}	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 ^{3/}	109.8	103.8	103.6	(105.1)	102.8	102.4	104.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-70....	3.8	0.5	0.3	(1.7)	0.3	0.1	2.1
1960-70....	4.0	1.7	1.8	(0.5)	1.1	1.2	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.

Source: Output based on data from National Canners Association, U.S. Department of Agriculture, and 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 ^{1/}
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{2/}			OUTPUT PER EMPLOYEE ^{2/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{3/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	(^{4/})	54.5	(^{4/})	(^{4/})	50.8	(^{4/})
1947.....	53.3	49.8	(68.7)	58.0	53.8	72.7
1948.....	(^{4/})	(^{4/})	(^{4/})	(^{4/})	(^{4/})	(^{4/})
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.....	108.4	110.5	(102.1)	105.6	106.9	102.5
1971 ^{5/}	108.7	111.6	(100.6)	104.6	106.0	101.0
AVERAGE ANNUAL RATES (PERCENT)						
1947-71....	4.0	4.2	(3.2)	3.8	4.1	2.9
1960-71....	4.1	4.4	(3.3)	3.6	3.7	3.1

^{1/} Measures of output per man-hour and output per employee have been revised because of the introduction of revised product detail in the output series.

^{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.

^{4/} Not available.

^{5/} Preliminary.

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

TABLE 17. FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT ^{1/}
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	83.6	(3/)	153.4	(3/)	(3/)	164.6	(3/)
1947.....	112.0	210.2	225.0	(163.1)	193.2	208.3	154.0
1948.....	102.3	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
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	128.6
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	94.6	92.8	(100.4)	97.1	95.9	100.0
1971 ^{4/}	101.0	92.9	90.5	(100.4)	96.6	95.3	100.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-71....	0.6	-3.1	-3.4	(-2.4)	-3.0	-3.3	-2.1
1960-71....	0.5	-3.5	-3.8	(-2.7)	-3.0	-3.1	-2.6

^{1/} The output measure has been revised because of the introduction of revised product detail.

^{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 18. BAKERY PRODUCTS SIC 205
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.....	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.....	102.2	101.5	(103.6)	103.6	103.0	104.3
1969.....	104.0	103.1	(105.7)	104.1	102.8	106.1
1970.....	104.3	102.2	(107.8)	104.0	101.5	108.3
1971 ^{4/}	104.1	102.5	(106.9)	103.9	101.7	107.3
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	2.3	2.6	(1.7)	2.1	2.4	1.5
1960-71.....	3.0	2.5	(3.9)	2.8	2.1	3.8

^{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 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.....	101.0	98.8	99.5	(97.5)	97.5	98.1	96.8
1969.....	104.3	100.3	101.2	(98.7)	100.2	101.5	98.3
1970.....	100.5	96.4	98.3	(93.2)	96.6	99.0	92.8
1971 ^{3/}	99.1	95.2	96.7	(92.7)	95.4	97.4	92.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	1.4	-0.9	-1.2	(-0.3)	-0.7	-1.0	-0.1
1960-71.....	1.1	-1.9	-1.4	(-2.7)	-1.7	-1.0	-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, 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.....	111.8	111.8	(111.6)	110.4	110.1	112.0
1971 ^{4/}	123.4	125.5	(116.1)	117.2	117.4	112.4
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	4.4	4.6	(3.3)	4.2	4.5	3.0
1960-71.....	4.2	4.3	(3.8)	3.6	3.6	3.5

^{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 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.....	54.8	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	58.6	123.9	129.8	(92.3)	120.6	127.6	87.8
1950.....	65.9	129.9	135.1	(102.1)	128.8	135.5	97.5
1951.....	57.2	120.7	124.3	(101.4)	123.2	128.8	96.6
1952.....	60.9	119.1	121.8	(104.8)	117.3	121.1	99.6
1953.....	64.9	122.5	124.7	(111.3)	119.9	122.7	106.7
1954.....	65.6	112.6	112.8	(112.0)	112.4	113.4	107.4
1955.....	65.0	107.8	108.4	(105.2)	108.1	109.5	101.5
1956.....	68.1	107.3	108.5	(101.1)	103.8	105.3	97.2
1957.....	67.5	107.7	109.3	(99.7)	105.4	107.4	96.0
1958.....	71.7	110.7	110.5	(112.4)	106.4	105.9	108.3
1959.....	75.5	110.3	110.7	(108.4)	108.3	109.2	104.6
1960.....	77.7	107.6	108.0	(106.0)	104.5	104.7	103.3
1961.....	82.5	106.5	106.7	(105.7)	104.2	104.2	104.4
1962.....	86.3	101.3	102.2	(97.1)	99.1	99.8	96.6
1963.....	91.0	105.6	105.9	(104.1)	103.6	103.7	103.6
1964.....	98.7	108.4	108.7	(107.3)	105.7	105.5	106.4
1965.....	96.2	100.9	101.9	(96.4)	101.9	103.4	95.9
1966.....	97.6	98.1	97.7	(101.5)	99.7	98.1	101.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	104.8	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.....	110.1	98.5	98.5	(98.7)	99.7	100.0	98.3
1971 ^{2/}	110.4	89.5	88.0	(95.1)	94.2	94.0	98.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	3.1	-1.3	-1.5	(-0.2)	-1.1	-1.3	0.1
1960-71.....	3.0	-1.1	-1.2	(-0.7)	-0.6	-0.6	-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 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.....	98.9	102.0	(85.3)	99.3	102.4	85.7
1971 ^{4/}	108.4	112.2	(91.4)	109.4	113.6	91.7
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	3.3	3.3	(3.4)	3.1	3.1	3.1
1960-71.....	3.0	2.9	(3.4)	2.7	2.6	3.3

^{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/} Not available.

^{4/} Preliminary.

Source: Output based on data from the Bureau of Domestic Commerce and the Bureau of the Census, both of the 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	102.6	99.5	(119.0)	102.2	99.1	118.5
1971 ^{3/}	103.6	95.6	92.3	(113.4)	94.7	91.2	113.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-71....	2.5	-0.7	-0.7	(-0.8)	-0.5	-0.5	-0.5
1960-71....	3.1	0.1	0.2	(-0.3)	0.4	0.5	-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 Bureau of Domestic Commerce and the Bureau of the Census, both of the 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.....	55.9	60.8	(57.8)	60.3	60.4	60.0
1959.....	61.7	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.....	103.4	105.7	(107.7)	106.9	106.1	108.7
1969.....	113.7	113.3	(114.5)	112.6	111.5	115.1
1970.....	117.2	120.3	(117.1)	122.6	122.4	117.4
1971 ^{4/}	127.8	127.7	(128.2)	132.4	131.1	128.9
	AVERAGE ANNUAL RATES (PERCENT)					
1947-71....	4.9	5.0	(4.7)	4.6	4.6	4.5
1960-71....	3.4	6.5	(6.2)	6.6	6.7	6.1

^{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 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 ^{1/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1939.....	37.2	(2/)	112.8	(2/)	(2/)	109.5	(2/)
1947.....	66.2	157.6	171.6	(128.2)	138.8	147.8	121.0
1948.....	64.3	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
1949.....	65.5	141.5	144.5	(135.3)	132.4	134.4	128.8
1950.....	66.1	143.9	142.5	(147.3)	136.6	134.8	140.6
1951.....	68.2	146.1	146.6	(145.5)	137.9	138.0	138.5
1952.....	69.5	143.5	144.5	(141.6)	136.6	137.7	134.7
1953.....	71.7	149.1	149.1	(149.2)	142.7	142.9	143.0
1954.....	69.8	141.3	138.3	(147.7)	136.8	134.6	141.9
1955.....	71.4	138.8	137.5	(142.0)	135.3	134.6	137.0
1956.....	72.0	137.4	135.0	(142.7)	133.6	132.1	137.3
1957.....	71.8	132.7	129.5	(139.7)	130.2	128.4	134.5
1958.....	72.6	121.3	119.4	(125.5)	120.3	120.1	121.1
1959.....	75.3	120.1	119.7	(121.4)	119.0	120.0	117.1
1960.....	76.1	116.8	117.2	(116.1)	117.1	119.3	113.2
1961.....	77.7	113.7	114.0	(113.5)	114.3	115.6	112.2
1962.....	79.6	110.8	111.9	(108.9)	110.7	112.0	108.3
1963.....	83.0	105.2	106.6	(102.4)	105.0	106.8	102.0
1964.....	88.1	104.1	105.0	(102.4)	103.8	105.2	101.5
1965.....	90.9	102.1	102.5	(101.8)	101.4	101.5	101.4
1966.....	96.0	102.5	102.2	(103.4)	101.5	100.7	103.4
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	105.3	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 ^{2/}	119.0	93.1	93.2	(92.8)	89.9	90.8	92.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	2.5	-2.3	-2.4	(-2.1)	-2.0	-2.0	-1.9
1960-71.....	4.4	-1.9	-1.9	(-1.7)	-2.1	-2.2	-1.6

^{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 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	73.3	72.9	(73.7)	75.0	73.0	76.3
1959.....	76.7	76.7	(76.8)	79.4	79.3	79.5
1960.....	73.8	74.5	(73.5)	75.6	76.0	75.3
1961.....	76.6	77.8	(76.0)	77.5	78.4	76.9
1962.....	81.8	83.7	(80.8)	81.9	83.8	80.8
1963.....	84.3	84.7	(84.2)	85.2	86.7	84.2
1964.....	88.0	89.5	(87.1)	88.6	90.9	87.1
1965.....	92.0	94.0	(90.6)	92.4	95.4	90.6
1966.....	96.9	96.0	(97.6)	97.7	97.7	97.6
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	109.1	110.8	(108.1)	108.2	108.4	108.1
1969.....	113.6	117.6	(111.3)	112.2	113.8	111.3
1970.....	121.5	128.2	(117.5)	119.9	124.0	117.5
1971 ^{3/}	129.4	138.7	(124.1)	127.8	134.3	124.1
AVERAGE ANNUAL RATES (PERCENT)						
1958-71.....	4.6	4.9	(4.3)	4.2	4.5	4.1
1960-71.....	5.1	5.5	(4.9)	4.8	5.0	4.8

^{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 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	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS
1958.....	58.0	79.1	79.6	(78.7)	77.3	79.4	76.0
1959.....	62.8	81.9	81.9	(81.8)	79.1	79.2	79.0
1960.....	61.8	83.7	83.0	(84.1)	81.8	81.3	82.1
1961.....	63.6	83.0	81.8	(83.7)	82.1	81.1	82.7
1962.....	68.5	83.7	81.8	(84.8)	83.6	81.7	84.8
1963.....	72.9	86.5	86.1	(86.6)	85.6	84.1	86.6
1964.....	79.2	90.0	88.5	(90.9)	89.4	87.1	90.9
1965.....	85.3	92.7	90.7	(94.1)	92.3	89.4	94.1
1966.....	95.2	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.....	108.6	99.5	98.0	(100.5)	100.4	100.2	100.5
1969.....	115.2	101.4	98.0	(103.5)	102.7	101.2	103.5
1970.....	123.3	101.5	96.2	(104.9)	102.8	99.4	104.9
1971 ^{2/}	131.9	101.9	95.1	(106.3)	103.2	98.2	106.3
AVERAGE ANNUAL RATES (PERCENT)							
1958-71.....	6.9	2.2	1.8	(2.4)	2.5	2.3	2.7
1960-71.....	7.5	2.3	1.9	(2.5)	2.6	2.4	2.6

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

^{2/} 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 ^{4/}	111.7	113.7	(97.5)	109.4	110.9	97.9
AVERAGE ANNUAL RATES (PERCENT)						
1947-71....	3.3	3.6	(1.0)	3.4	3.6	1.0
1960-71....	2.2	2.4	(0.3)	1.9	2.0	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/} 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 Consumer and 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 ^{1/}	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 ^{2/}	99.4	89.0	87.4	(102.0)	90.9	89.6	101.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	1.5	-1.7	-2.0	(0.5)	-1.8	-2.0	0.5
1960-71.....	0.4	-1.7	-1.9	(0.2)	-1.4	-1.6	0.1

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 Consumer and 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 ^{4/}	108.0	110.1	(93.6)	103.8	105.4	94.0
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	1.4	1.6	(-0.2)	1.3	1.5	-0.2
1960-71.....	1.3	1.6	(-0.3)	0.8	1.0	-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/} 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 Consumer and 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 ^{2/}	100.0	92.6	90.8	(106.8)	96.3	94.9	106.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	1.7	0.3	0.1	(1.9)	0.4	0.2	2.0
1960-71.....	0.8	-0.6	-0.8	(1.0)	-0.0	-0.2	1.1

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 Consumer and 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 ^{4/}	120.6	121.8	(109.5)	123.0	124.6	110.0
AVERAGE ANNUAL RATES (PERCENT)						
1947-71....	5.9	6.2	(3.3)	6.1	6.3	3.4
1960-71....	3.9	4.1	(1.8)	3.9	4.1	1.9

^{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 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)	156.5	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 ^{3/}	97.8	81.1	80.3	(89.3)	79.5	78.5	88.9
AVERAGE ANNUAL RATES (PERCENT)							
1947-71....	1.1	-4.6	-4.8	(-2.1)	-4.7	-4.9	-2.2
1960-71....	-0.3	-4.0	-4.2	(-2.1)	-4.0	-4.2	-2.2

^{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 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.....	126.7	127.7	(117.3)	120.9	121.2	117.6
1971 ^{4/}	118.9	120.4	(105.8)	112.5	113.1	105.7
	AVERAGE ANNUAL RATES (PERCENT)					
1947-71.....	5.3	5.4	(4.2)	5.2	5.3	4.2
1960-71.....	6.7	6.9	(4.9)	6.4	6.6	4.9

^{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 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	99.2	98.4	(107.2)	104.0	103.7	106.9
1971 ^{3/}	103.5	86.9	85.8	(97.6)	91.8	91.3	97.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	3.3	-1.8	-1.9	(-0.8)	-1.7	-1.8	-0.7
1960-71.....	6.0	-0.6	-0.8	(1.1)	-0.4	-0.5	1.1

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	115.4	116.3	(111.8)	113.8	114.1	112.2
1971 ^{4/}	120.1	121.4	(114.1)	118.6	119.9	114.5
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	3.9	4.3	(1.9)	3.8	4.2	1.8
1960-71.....	4.2	4.4	(3.3)	4.2	4.4	3.3

^{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/} 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.....	113.0	97.9	97.2	(101.1)	99.3	99.0	100.7
1971 ^{3/}	113.5	94.5	93.5	(99.5)	95.7	94.7	99.1
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	4.6	0.6	0.3	(2.7)	0.8	0.4	2.7
1960-71.....	4.7	0.4	0.3	(1.3)	0.5	0.3	1.3

1/ The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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.....	109.2	110.6	(104.7)	106.1	106.3	105.2
1971 ^{3/}	115.1	116.9	(109.1)	113.0	114.1	109.6
	AVERAGE ANNUAL RATES (PERCENT)					
1958-71.....	3.3	3.4	(2.7)	3.2	3.3	2.7
1960-71.....	3.5	3.7	(2.7)	3.3	3.4	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/} 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	104.3	103.0	(108.8)	107.4	107.1	108.3
1971 ^{2/}	118.3	102.8	101.2	(108.4)	104.7	103.7	107.9
AVERAGE ANNUAL RATES (PERCENT)							
1958-71.....	6.2	2.9	2.7	(3.4)	3.0	2.8	3.5
1960-71.....	6.2	2.7	2.5	(3.4)	2.9	2.7	3.4

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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.....	119.2	118.8	(120.5)	118.9	118.1	121.3
1971 ^{3/}	140.9	135.8	(159.8)	141.5	135.8	160.7
	AVERAGE ANNUAL RATES (PERCENT)					
1957-71.....	5.0	4.9	(5.4)	5.1	5.0	5.3
1960-71.....	5.5	5.3	(6.3)	5.6	5.4	6.2

^{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/} Preliminary.

Source: Output based on data from the Textile Economics Bureau, Inc. 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.....	78.4	87.3	87.3	(87.5)	85.5	85.2	86.6
1965.....	89.9	96.9	97.8	(94.6)	95.9	96.5	94.2
1966.....	98.2	105.2	103.7	(109.6)	104.8	103.2	109.5
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	127.0	109.9	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	108.8	109.2	(107.6)	109.1	109.8	106.9
1971 ^{2/}	149.6	106.2	110.2	(93.6)	105.7	110.2	93.1
AVERAGE ANNUAL RATES (PERCENT)							
1957-71.....	9.4	4.2	4.3	(3.8)	4.1	4.1	3.8
1960-71.....	10.6	4.8	5.0	(4.1)	4.7	4.9	4.1

^{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 Textile Economics Bureau, Inc. 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. 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.....	108.3	110.2	(103.8)	107.6	109.0	104.4
1971 ^{4/}	113.0	114.9	(108.0)	111.6	113.0	108.5
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	5.8	6.2	(4.4)	5.7	6.2	4.4
1960-71.....	5.5	5.8	(4.7)	5.7	6.0	4.8

^{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 43. 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.....	84.2	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	101.0	99.3	(105.4)	101.7	100.4	104.8
1971 ^{2/}	113.1	100.1	98.4	(104.7)	101.3	100.1	104.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	3.7	-2.0	-2.4	(-0.7)	-1.9	-2.3	-0.7
1960-71.....	3.5	-1.9	-2.2	(-1.1)	-2.1	-2.4	-1.3

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 44. 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	73.9	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.....	104.7	105.5	(102.0)	106.0	107.0	102.6
1971 ^{4/}	109.9	106.8	(122.4)	110.9	107.8	122.8
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	4.1	4.3	(3.2)	4.1	4.5	3.0
1960-71.....	3.7	3.7	(3.6)	3.7	3.7	3.6

^{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 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 45. 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	90.2
1955.....	68.8	118.7	125.6	(94.7)	109.1	114.0	92.5
1956.....	63.6	109.8	112.9	(99.2)	108.6	112.2	96.5
1957.....	66.6	109.1	111.7	(100.0)	107.0	110.0	97.3
1958.....	61.5	96.8	97.7	(93.7)	96.4	98.0	91.3
1959.....	73.5	104.3	107.7	(92.8)	102.0	105.4	90.5
1960.....	72.8	100.9	102.7	(94.8)	99.2	101.0	93.1
1961.....	70.5	94.6	94.8	(93.9)	93.0	92.9	93.3
1962.....	80.4	98.0	100.8	(88.5)	93.1	94.7	88.0
1963.....	83.7	94.9	96.5	(89.6)	92.0	92.8	89.1
1964.....	94.5	98.2	100.1	(92.1)	92.6	93.0	91.3
1965.....	100.3	102.1	103.7	(96.7)	95.6	95.5	96.2
1966.....	107.6	107.3	109.5	(100.0)	100.4	100.5	100.0
1967.....	100.0	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	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	109.9	109.1	(112.8)	108.6	107.6	112.2
1971 ^{3/}	128.6	117.0	120.4	(105.1)	116.0	119.3	104.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	3.9	-0.1	-0.3	(0.8)	-0.2	-0.4	1.0
1960-71.....	5.6	1.9	1.9	(1.9)	1.9	1.8	2.0

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

^{2/} Not available.

^{3/} Preliminary.

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

TABLE 46. 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.....	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)
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.....	(<u>4/</u>)	(<u>4/</u>)	(<u>4/</u>)	(<u>4/</u>)	(<u>4/</u>)	(<u>4/</u>)
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.....	103.5	104.6	(94.1)	102.3	103.2	94.4
1971 ^{5/}	101.3	102.7	(90.2)	100.8	102.1	90.6
	AVERAGE ANNUAL RATES (PERCENT)					
1947-71....	1.4	1.5	(1.1)	1.6	1.6	1.0
1960-71....	0.3	0.3	(<u>6/</u>)	0.5	0.5	(<u>6/</u>)

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^{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.

^{6/} 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 47. 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	90.3	89.4	(99.4)	91.4	90.6	99.0
1971 ^{4/}	88.3	87.2	86.0	(97.9)	87.6	86.5	97.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	0.8	-0.7	-0.7	(-0.4)	-0.8	-0.8	-0.2
1960-71.....	-1.1	-1.4	-1.4	(-1.1)	-1.5	-1.6	-1.0

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 48. GLASS CONTAINERS SIC 3221
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/)	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 ^{4/}	105.2	107.2	(91.1)	104.1	105.9	91.6
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	1.7	1.7	(1.0)	1.5	1.6	0.9
1960-71.....	2.7	2.8	(1.9)	2.5	2.6	1.9

^{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 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. GLASS CONTAINERS SIC 3221
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.....	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 ^{3/}	113.0	107.4	105.4	(124.1)	108.5	106.7	123.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	3.8	2.1	2.0	(2.8)	2.2	2.2	2.9
1960-71.....	4.8	2.0	1.9	(2.8)	2.2	2.1	2.9

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 50. 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.....	110.6	110.6	(112.9)	111.5	111.0	113.2
1971 ^{4/}	120.3	118.9	(130.5)	122.1	120.2	130.2
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	4.6	5.0	(2.2)	4.3	4.7	2.1
1960-71.....	4.4	4.8	(2.6)	4.5	4.9	2.6

^{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 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 51. 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	90.9
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	92.8	92.8	(90.9)	92.0	92.4	90.6
1971 ^{3/}	107.8	89.6	90.7	(82.6)	88.3	89.7	82.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-71....	2.6	-1.9	-2.3	(0.3)	-1.7	-2.1	0.4
1960-71....	1.9	-2.3	-2.7	(-0.7)	-2.5	-2.8	-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/} 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 52. 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.....	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)	(<u>3/</u>)
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	(80.0)	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.....	109.3	109.6	(108.4)	110.1	110.3	109.3
1969.....	110.5	110.7	(110.0)	112.4	113.0	110.6
1970 ^{4/}	107.9	107.1	(110.7)	106.6	105.3	111.4
AVERAGE ANNUAL RATES (PERCENT)						
1947-70....	3.4	3.7	(1.7)	3.2	3.6	1.6
1960-70....	4.6	4.7	(3.8)	3.9	4.0	3.8

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

TABLE 53. 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.....	46.3	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.....	110.0	100.6	100.4	(101.5)	99.9	99.7	100.6
1969.....	114.9	104.0	103.8	(104.5)	102.2	101.7	103.9
1970 ^{3/}	117.6	109.0	109.8	(106.2)	110.3	111.7	105.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-70....	5.3	1.8	1.5	(3.5)	2.0	1.6	3.6
1960-70....	5.5	0.9	0.8	(1.7)	1.5	1.5	1.7

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

^{2/} Not available.

^{3/} 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, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 54. 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.....	101.7	102.6	(98.6)	101.3	102.0	98.6
1971 ^{3/}	105.1	106.7	(99.1)	104.5	105.9	99.2
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	1.7	2.1	(-0.3)	1.8	2.3	-0.4
1960-71.....	2.2	2.3	(1.7)	2.5	2.7	1.7

^{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 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 55-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	98.7	97.9	(101.8)	99.1	98.4	101.8
1971 ^{2/}	95.5	90.9	89.5	(96.4)	91.4	90.2	96.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	1.4	-0.3	-0.7	(1.7)	-0.4	-0.8	1.8
1960-71.....	2.6	0.4	0.3	(0.9)	0.1	-0.1	0.9

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 56. 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.....	112.1	113.3	(104.6)	109.9	110.6	105.3
1971 ^{3/}	115.1	116.7	(105.7)	114.3	115.6	106.2
	AVERAGE ANNUAL RATES (PERCENT)					
1954-71.....	2.3	2.4	(1.8)	2.6	2.7	1.8
1960-71.....	2.6	2.6	(2.9)	3.0	3.0	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.

^{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 57. 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.....	110.9	98.9	97.9	(106.0)	100.9	100.3	105.3
1971 ^{2/}	109.6	95.2	93.9	(103.7)	95.9	94.8	103.2
AVERAGE ANNUAL RATES (PERCENT)							
1954-71.....	2.9	0.6	0.6	(1.1)	0.3	0.2	1.1
1960-71.....	4.8	2.2	2.2	(1.9)	1.8	1.7	1.9

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 58. 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	113.0	(147.4)	118.1	112.1	148.2
1971 ^{4/}	115.9	113.7	(126.2)	113.4	110.7	125.0
	AVERAGE ANNUAL RATES (PERCENT)					
1947-71.....	2.1	2.3	(0.9)	1.9	2.1	0.8
1960-71.....	1.2	1.3	(0.7)	1.1	1.2	0.7

^{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 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 Commerce.

TABLE 59. 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	142.3	(109.1)	136.2	143.5	108.5
1971 ^{3/}	146.3	126.2	128.7	(115.9)	129.0	132.2	117.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	1.3	-0.8	-1.0	(0.4)	-0.6	-0.8	0.5
1960-71.....	1.8	0.7	0.5	(1.1)	0.8	0.7	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, 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 60. 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	90.6	99.9
1965.....	97.5	97.0	(99.5)	97.7	97.0	100.1
1966.....	100.9	100.7	(102.1)	102.5	102.6	102.4
1967.....	100.0	100.0	(100.0)	100.0	100.0	100.0
1968.....	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 ^{4/}	112.0	113.8	(104.3)	110.8	111.9	106.3
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	4.6	4.9	(3.6)	4.3	4.4	3.6
1960-71.....	2.5	2.4	(2.8)	2.3	2.1	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.

^{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, and 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 61. 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 ^{3/}	120.1	107.2	105.5	(115.1)	108.4	107.3	113.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-71....	8.3	3.3	3.1	(4.4)	3.7	3.5	4.4
1960-71....	7.2	4.6	4.7	(4.3)	4.8	5.0	4.2

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

^{2/} Not available.

^{3/} Preliminary.

Source: Output based on data from the Bureau of the Census, U.S. Department of Commerce, and 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 62. ALUMINUM ROLLING AND DRAWING SIC 3352
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.....	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.....	109.5	113.9	(94.3)	106.0	109.5	94.5
1971 ^{3/}	123.9	129.6	(104.7)	120.9	125.8	105.1
AVERAGE ANNUAL RATES (PERCENT)						
1958-71.....	5.1	5.3	(4.4)	4.9	5.0	4.5
1960-71.....	5.1	5.4	(4.3)	4.7	4.9	4.3

^{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 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 63. 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 ^{1/}	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	101.8	97.9	(118.3)	105.2	101.8	118.0
1971 ^{2/}	119.1	96.1	91.9	(113.8)	98.5	94.7	113.3
AVERAGE ANNUAL RATES (PERCENT)							
1958-71.....	7.2	2.0	1.8	(2.7)	2.3	2.1	2.6
1960-71.....	7.1	1.9	1.7	(2.8)	2.3	2.1	2.7

^{1/} The figures shown in parentheses are subject to a wider margin of error than are other measures for this industry because of the method for estimating nonproduction worker 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 64. 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.....	105.1	107.4	(90.5)	103.3	105.5	90.9
1971 ^{4/}	110.2	112.2	(97.2)	107.4	109.0	97.6
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	2.4	2.4	(2.3)	2.6	2.7	2.2
1960-71.....	2.0	2.1	(1.5)	2.1	2.2	1.5

^{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, 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. METAL CANS SIC 341
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.....	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.....	121.6	115.7	113.2	(134.3)	117.7	115.3	133.8
1971 ^{3/}	122.0	110.7	108.7	(125.5)	113.6	111.9	125.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	3.8	1.3	1.3	(1.5)	1.2	1.1	1.5
1960-71.....	5.0	2.9	2.8	(3.5)	2.8	2.7	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/} 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 66. 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 ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	107.1	107.6	(104.5)	107.6	108.3	105.0
1971 ^{3/}	113.6	114.9	(108.0)	115.3	117.1	108.5
	AVERAGE ANNUAL RATES (PERCENT)					
1958-71.....	5.2	4.9	(6.7)	5.2	4.8	6.6
1960-71.....	4.7	4.4	(6.0)	4.7	4.3	5.9

^{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.

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

TABLE 67. 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	90.9	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.....	107.4	100.3	99.8	(102.8)	99.8	99.2	102.3
1971 ^{2/}	114.6	100.9	99.7	(106.1)	99.4	97.9	105.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-71.....	6.2	0.9	1.3	(-0.4)	1.0	1.4	-0.3
1960-71.....	6.2	1.4	1.7	(0.2)	1.5	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/} 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, and the Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 68. RADIO AND TELEVISION RECEIVING SETS SIC 3651
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE^{1/}
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{1/}			OUTPUT PER EMPLOYEE ^{1/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	128.1	138.6	(93.8)	128.1	138.8	94.2
1971 ^{3/}	151.0	161.3	(115.1)	152.2	163.1	115.6
AVERAGE ANNUAL RATES (PERCENT)						
1958-71.....	6.6	6.5	(6.8)	6.5	6.5	6.7
1960-71.....	6.9	7.0	(6.6)	6.9	7.0	6.5

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

TABLE 69. RADIO AND TELEVISION RECEIVING SETS SIC 3651
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.....	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.....	98.8	77.1	71.3	(105.3)	77.1	71.2	104.9
1971 ^{2/}	118.4	78.4	73.4	(102.9)	77.8	72.6	102.4
AVERAGE ANNUAL RATES (PERCENT)							
1958-71.....	10.2	3.4	3.5	(3.2)	3.5	3.5	3.3
1960-71.....	10.1	3.0	2.9	(3.3)	3.0	2.9	3.3

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

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

TABLE 70. MOTOR VEHICLES AND EQUIPMENT SIC 371
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE ^{1/}
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR ^{2/}			OUTPUT PER EMPLOYEE ^{2/}		
	EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{3/}	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.....	108.5	106.2	(116.3)	113.7	112.2	119.3
1969.....	106.8	105.7	(110.8)	109.0	107.8	113.0
1970.....	101.8	103.2	(97.9)	100.5	102.0	96.1
1971 ^{4/}	114.8	113.4	(119.7)	115.3	114.5	118.2
AVERAGE ANNUAL RATES (PERCENT)						
1957-71....	3.7	3.6	(3.9)	3.9	3.8	4.0
1960-71....	3.0	3.0	(3.0)	3.0	3.0	3.0

^{1/} Measures of output per man-hour and output per employee have been revised for 1968 and 1969 because of a revision in the 1968 data for truck and bus bodies as reported by the Bureau of the Census.

^{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.

^{4/} Preliminary.

Source: Output based on data from company records; Automobile Manufacturers Association; Automobile Invoice Service Company; Automobile Pricing Publications, Inc.; National Automobile Dealers Used Car Guide Company; Powers and Co., 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 71. MOTOR VEHICLES AND EQUIPMENT SIC 371
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT ^{1/}
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS			EMPLOYMENT		
		EMPLOYEES	PRODUCTION WORKERS	NONPRODUCTION WORKERS ^{2/}	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.....	121.8	112.3	114.7	(104.7)	107.1	108.6	102.1
1969.....	121.7	113.9	115.1	(109.8)	111.7	112.9	107.7
1970.....	99.2	97.4	96.1	(101.3)	98.7	97.3	103.2
1971 ^{3/}	123.5	107.6	108.9	(103.2)	107.1	107.9	104.5
AVERAGE ANNUAL RATES (PERCENT)							
1957-71.....	6.1	2.3	2.4	(2.1)	2.2	2.2	2.1
1960-71.....	5.6	2.5	2.5	(2.5)	2.6	2.6	2.6

^{1/} The output measure has been revised for 1968 and 1969 because of a revision in the 1968 data for truck and bus bodies as reported by the Bureau of the Census.

^{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; Automobile Manufacturers Association; Automobile Invoice Service Company; Automobile Pricing Publications, Inc.; National Automobile Dealers Used Car Guide Company; Powers and Co., 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 72. 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	43.6	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 ^{3/}	112.3	113.0	106.3	110.1	110.8	105.1
	AVERAGE ANNUAL RATES (PERCENT)					
1947-71.....	5.2	5.4	2.9	4.8	5.0	2.4
1960-71.....	5.6	5.7	4.9	5.6	5.8	3.8

^{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 73. 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 ^{2/}	100.5	89.5	88.9	94.5	91.3	90.7	95.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	0.5	-4.4	-4.6	-2.3	-4.1	-4.3	-1.8
1960-71.....	2.5	-2.9	-3.0	-2.3	-2.9	-3.1	-1.3

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

^{2/} Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 74. 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	86.0
1960.....	75.5	75.1	79.5	75.4	74.2	86.0
1961.....	79.4	79.3	80.4	79.1	78.2	86.6
1962.....	82.1	81.8	83.8	82.4	81.6	90.5
1963.....	84.7	84.5	86.6	85.8	84.9	93.3
1964.....	87.5	87.2	89.3	89.9	89.0	97.1
1965.....	92.9	93.0	91.7	95.0	94.3	99.5
1966.....	97.4	97.4	97.0	99.4	99.0	102.5
1967.....	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	101.8	102.0	100.7	103.3	103.5	101.2
1969.....	103.8	104.0	102.6	105.6	105.9	102.3
1970.....	103.6	103.8	101.3	105.6	106.2	100.8
1971 ^{3/}	106.7	107.4	101.1	104.6	105.3	99.9
AVERAGE ANNUAL RATES (PERCENT)						
1947-71.....	4.0	4.2	1.7	3.6	3.8	1.2
1960-71.....	3.3	3.4	2.6	3.3	3.5	1.6

^{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 75. 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 ^{2/}	95.5	89.5	88.9	94.5	91.3	90.7	95.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-71.....	-0.6	-4.4	-4.6	-2.3	-4.1	-4.3	-1.8
1960-71.....	0.2	-2.9	-3.0	-2.3	-2.9	-3.1	-1.3

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

^{2/} Preliminary.

Source: Based on Interstate Commerce Commission data.

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TABLE 76. 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 ¹ / _{.....}	116.5	131.5	112.9
AVERAGE ANNUAL RATES (PERCENT)			
1947-71....	7.7	13.9	5.7
1960-71....	8.0	15.5	7.0

¹/ Preliminary.

Source: Based on Civil Aeronautics Board data.

TABLE 77. PETROLEUM PIPELINES SIC 4612, 4613
INDEXES OF OUTPUT PER MAN-HOUR AND OUTPUT PER EMPLOYEE
(1967 = 100)

YEAR	OUTPUT PER MAN-HOUR		OUTPUT PER EMPLOYEE	
	EMPLOYEES	PRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS ^{1/}
1947.....	(2/)	(2/)	16.5	(2/)
1948.....	(2/)	(2/)	17.5	(2/)
1949.....	(2/)	(2/)	18.0	(2/)
1950.....	(2/)	(2/)	21.7	(2/)
1951.....	(2/)	(2/)	25.0	(2/)
1952.....	(2/)	(2/)	25.9	(2/)
1953.....	(2/)	(2/)	28.4	(2/)
1954.....	(2/)	(2/)	31.2	(2/)
1955.....	(2/)	(2/)	34.8	(2/)
1956.....	(2/)	(2/)	39.6	(2/)
1957.....	(2/)	(2/)	39.0	(2/)
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 ^{3/}	121.3	127.7	120.7	127.1
	AVERAGE ANNUAL RATES (PERCENT)			
1947-70....	(2/)	(2/)	9.0	(2/)
1960-70....	10.1	10.8	10.5	11.2

- ^{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 78. 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 ^{2/}	114.9	94.7	90.0	95.2	90.4
AVERAGE ANNUAL RATES (PERCENT)					
1947-70.....	6.3	(2/)	(2/)	-2.5	(2/)
1960-70.....	7.6	-2.3	-2.9	-2.6	-3.2

- ^{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 79. 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.....	116.6	117.3	117.0	117.5
1971 ^{4/}	120.8	122.0	120.5	121.7
AVERAGE ANNUAL RATES (PERCENT)				
1947-71....	6.9	7.4	6.9	7.4
1960-71....	5.9	6.2	6.0	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/} 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.

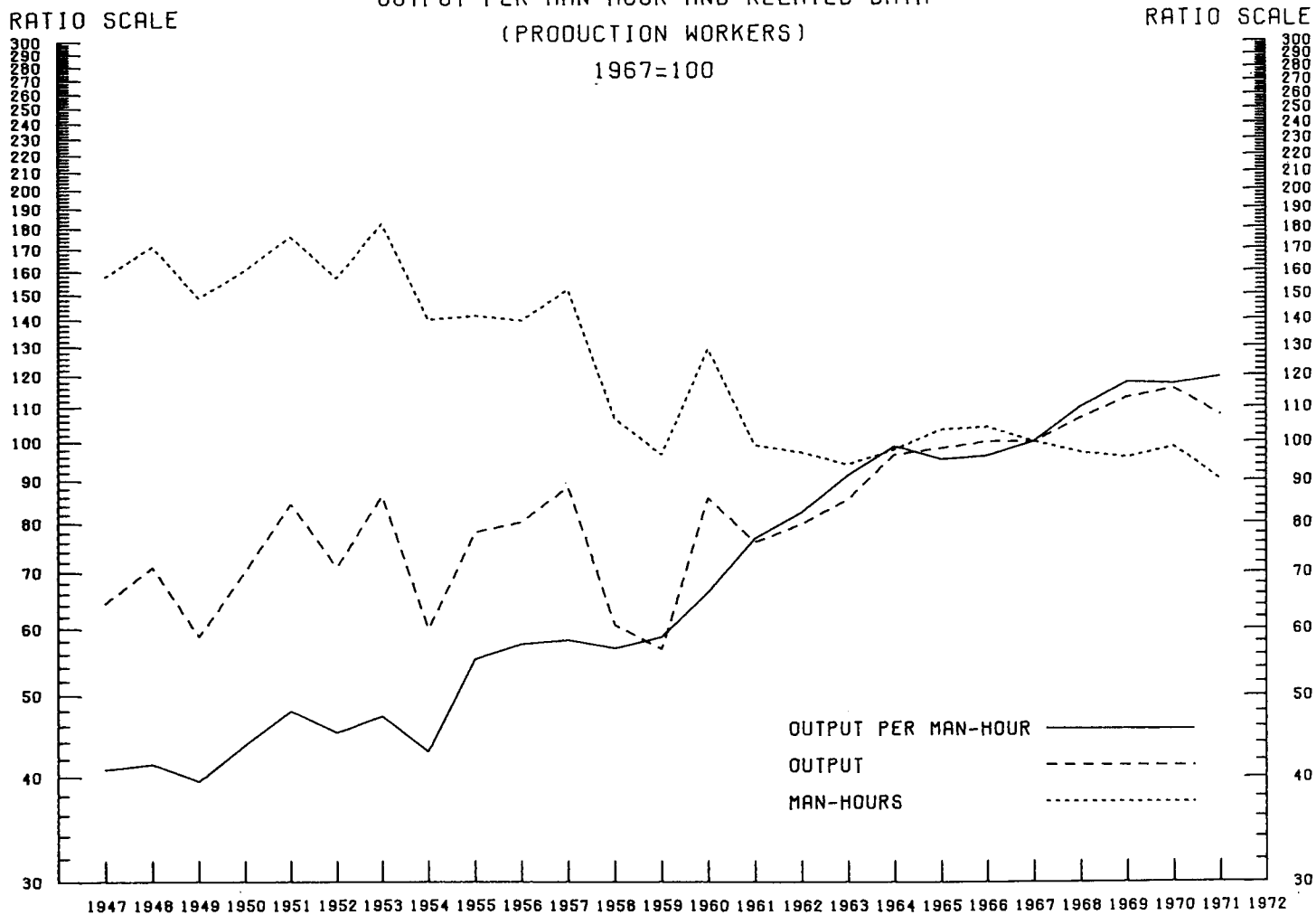
TABLE 80. GAS AND ELECTRIC UTILITIES SIC 491,492,493
INDEXES OF OUTPUT, MAN-HOURS AND EMPLOYMENT
(1967 = 100)

YEAR	OUTPUT	MAN-HOURS		EMPLOYMENT	
		EMPLOYEES	PRODUCTION WORKERS ^{1/}	EMPLOYEES	PRODUCTION WORKERS ^{1/}
1939.....	10.8	68.2	(2 ¹)	71.4	(2 ¹)
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.....	125.5	107.6	107.0	107.3	106.8
1971 ^{3/}	131.8	109.1	108.0	109.4	108.3
AVERAGE ANNUAL RATES (PERCENT)					
1947-71.....	7.8	0.9	0.4	0.9	0.5
1960-71.....	7.2	1.2	0.9	1.1	0.8

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

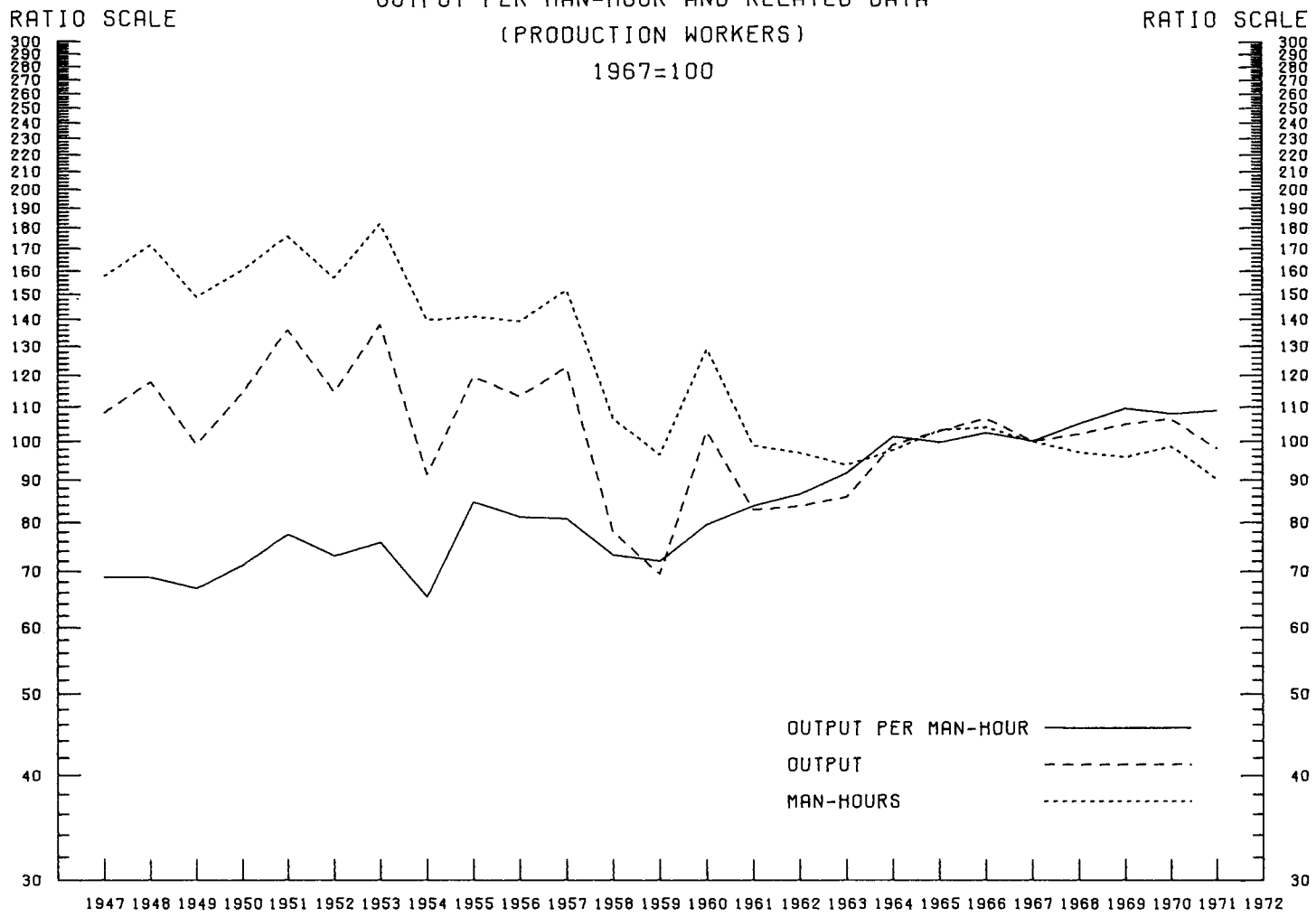
Source: Output based on data from the American Gas Association, Federal Power Commission, Rural Electrification Administration of the U.S. Department of Agriculture, and the Bureau of Labor Statistics, U.S. Department of Labor. Employment and hours based on data from the Bureau of Labor Statistics, U.S.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

CHART 2
 IRON MINING, CRUDE ORE SIC 101, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



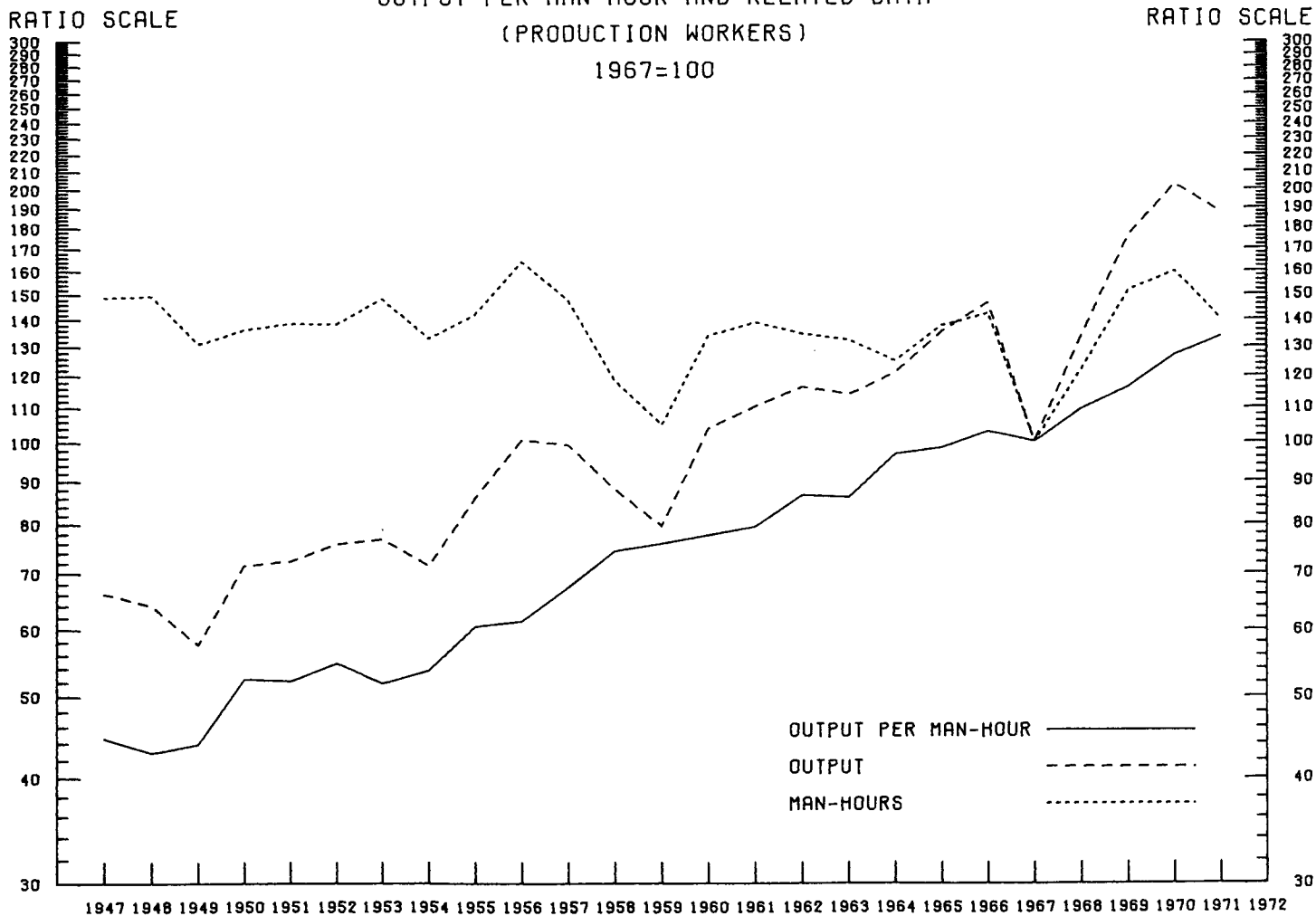
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 3
 IRON MINING, USABLE ORE SIC 101, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



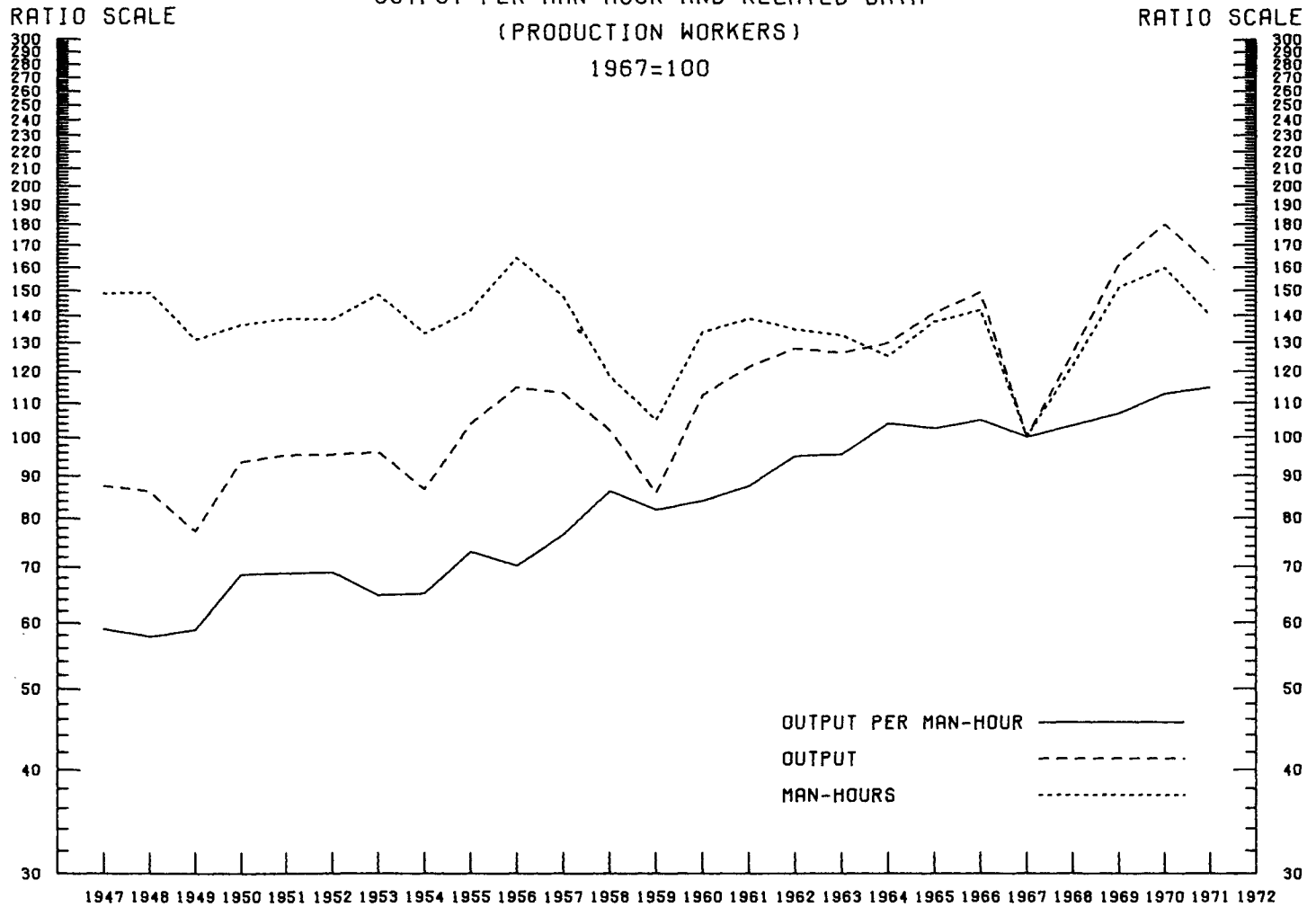
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 4
 COPPER MINING, CRUDE ORE SIC 102, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



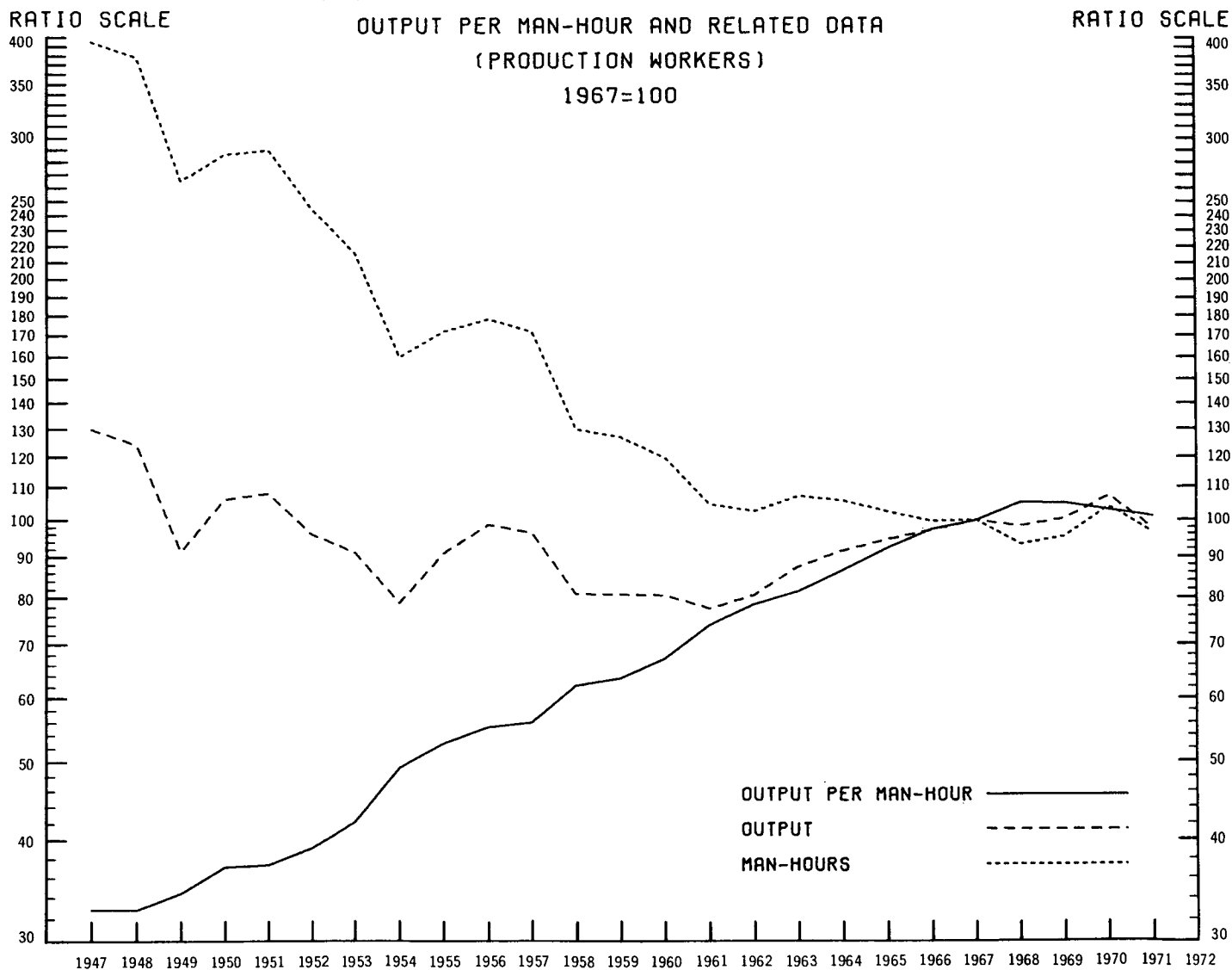
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 5
 COPPER MINING, RECOVERABLE METAL SIC 102, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



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

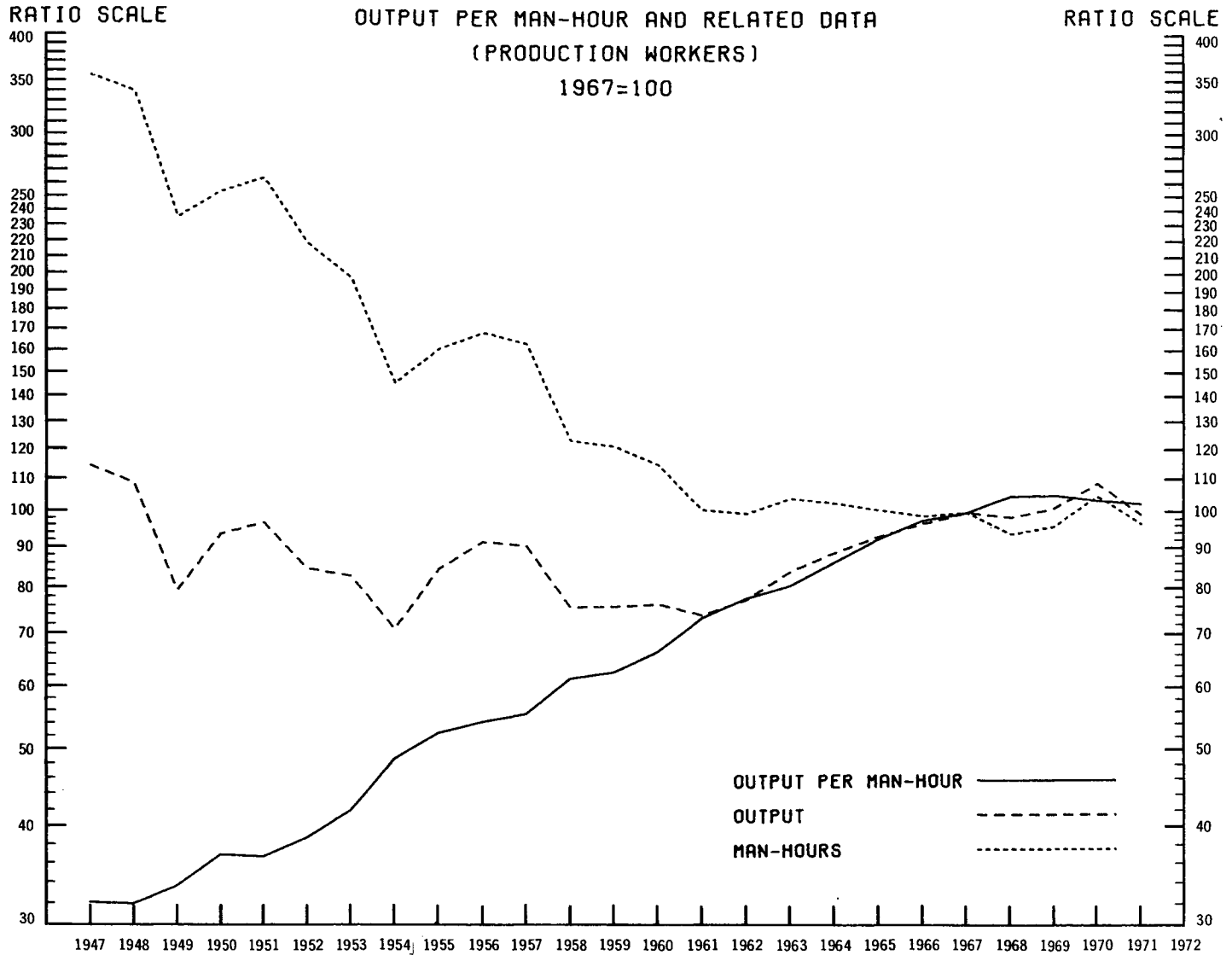
CHART 6
 COAL MINING SIC 11, 12, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



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

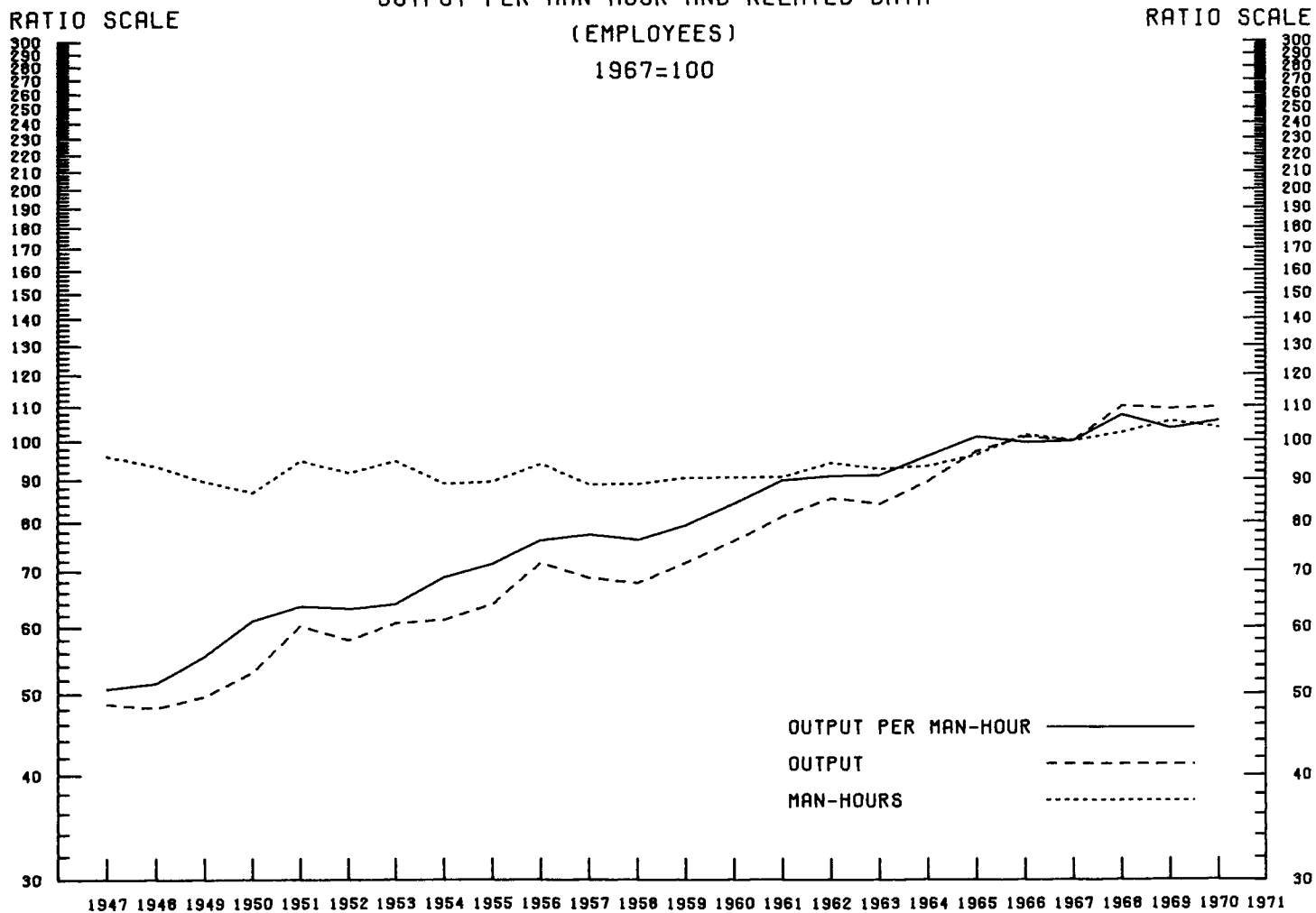
06

CHART 7 BITUMINOUS COAL AND LIGNITE MINING SIC 12, 1947-71



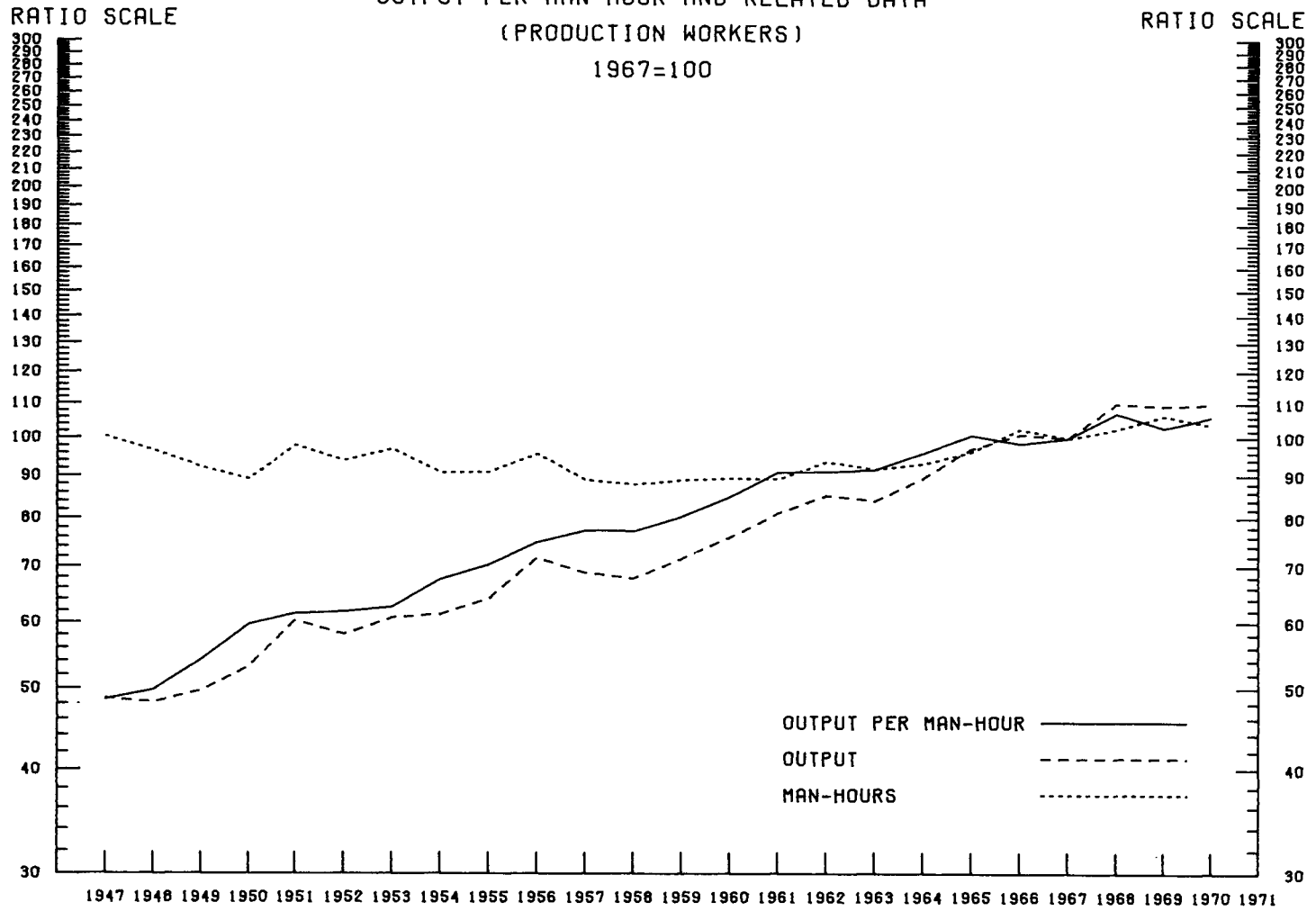
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 8
 CANNING AND PRESERVING SIC 203, 1947-70
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



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

CHART 9
 CANNING AND PRESERVING SIC 203, 1947-70
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



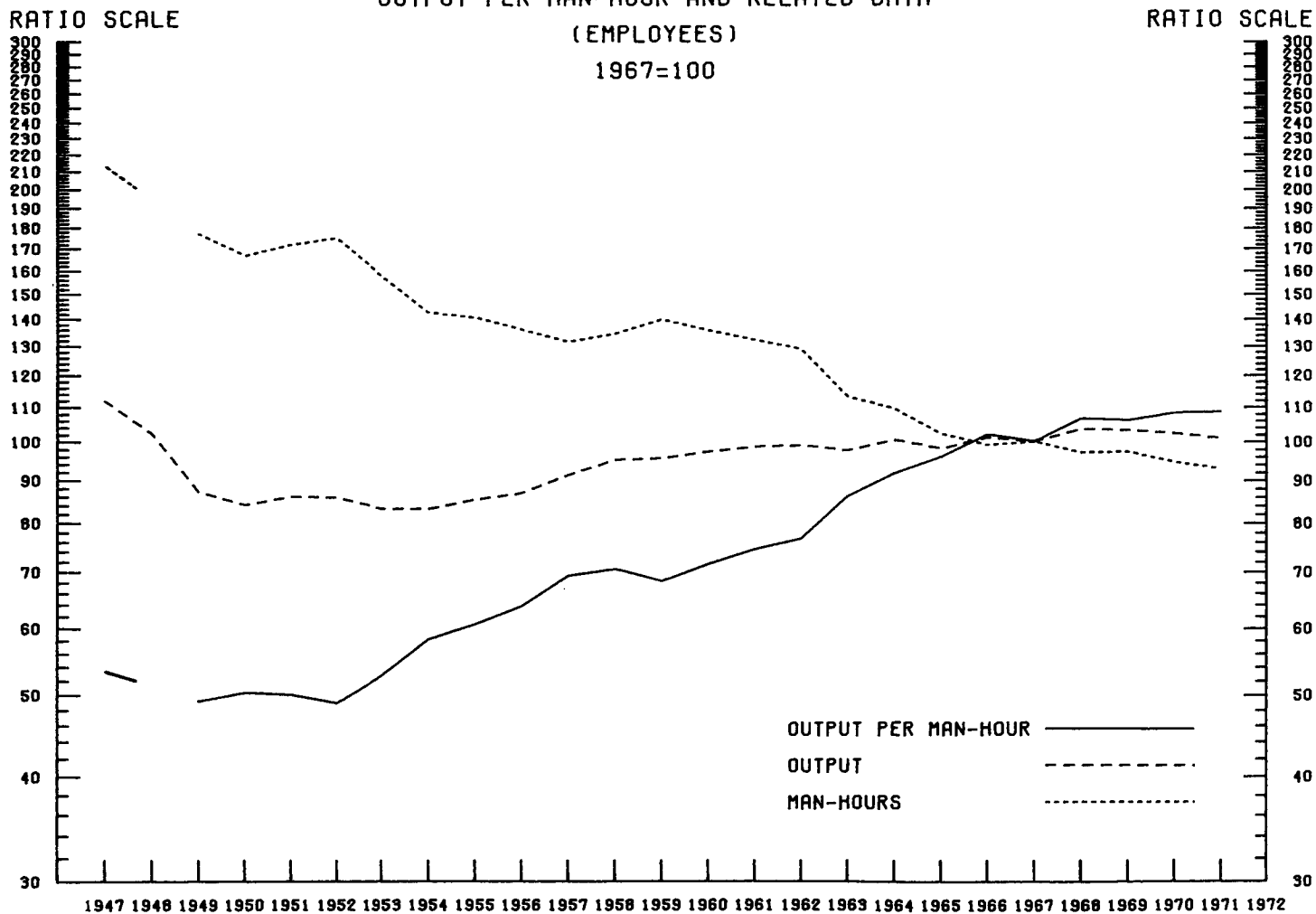
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 10 FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041, 1947-71

OUTPUT PER MAN-HOUR AND RELATED DATA

(EMPLOYEES)

1967=100



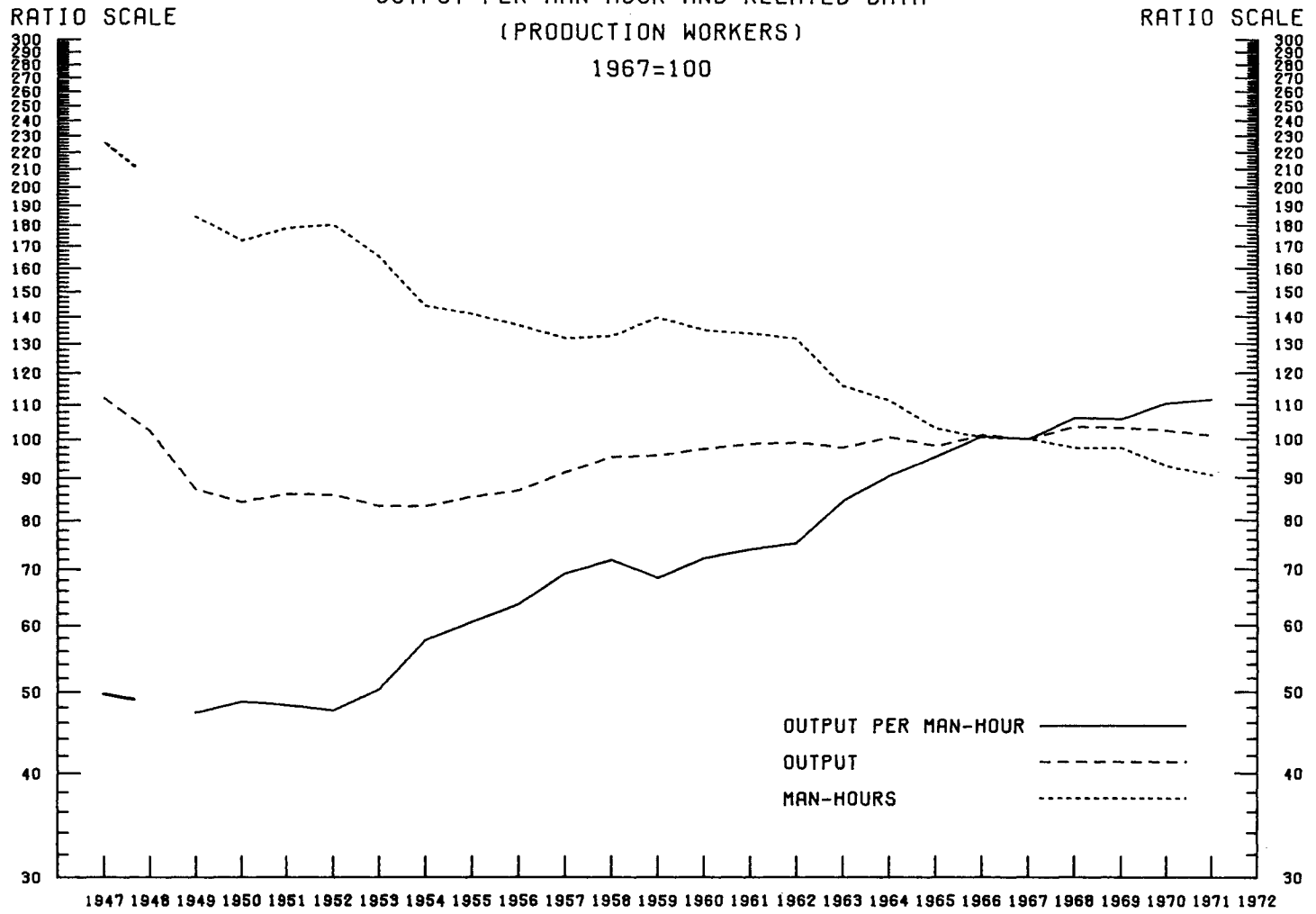
NOTE-WHERE SERIES ARE NOT CONTINUOUS. DATA ARE NOT AVAILABLE.
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 11
 FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041, 1947-71

OUTPUT PER MAN-HOUR AND RELATED DATA

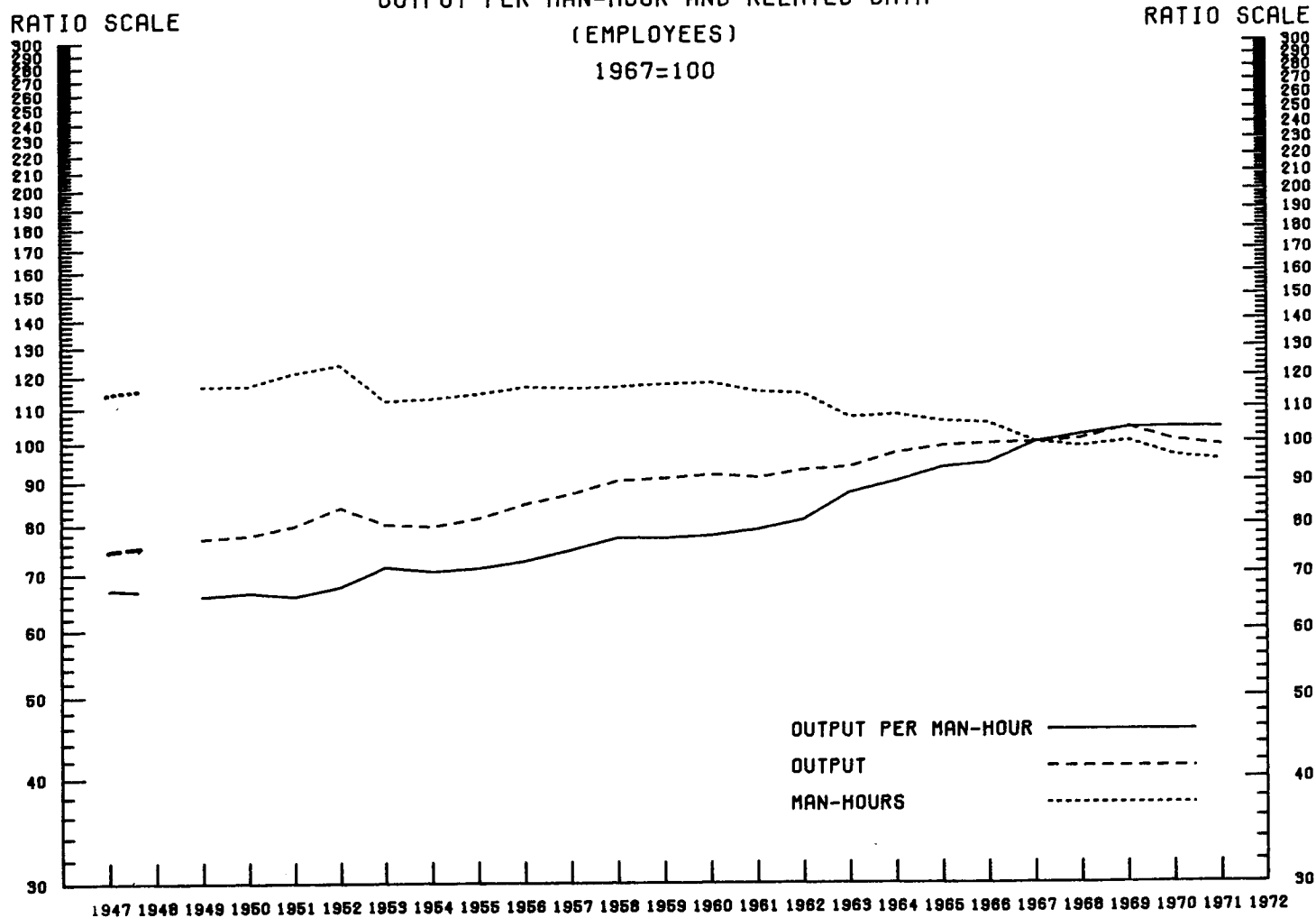
(PRODUCTION WORKERS)

1967=100



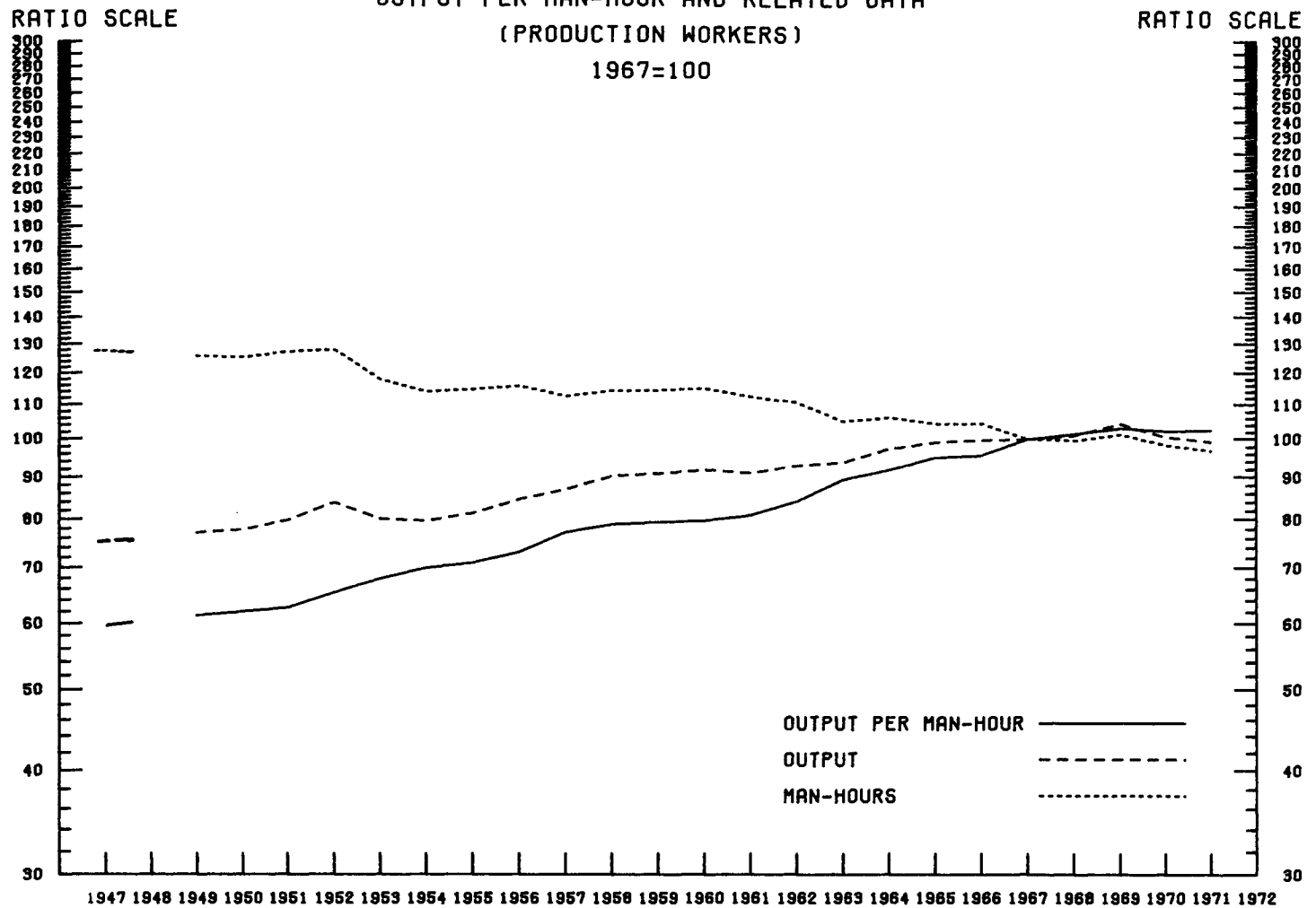
NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 12
 BAKERY PRODUCTS SIC 205, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



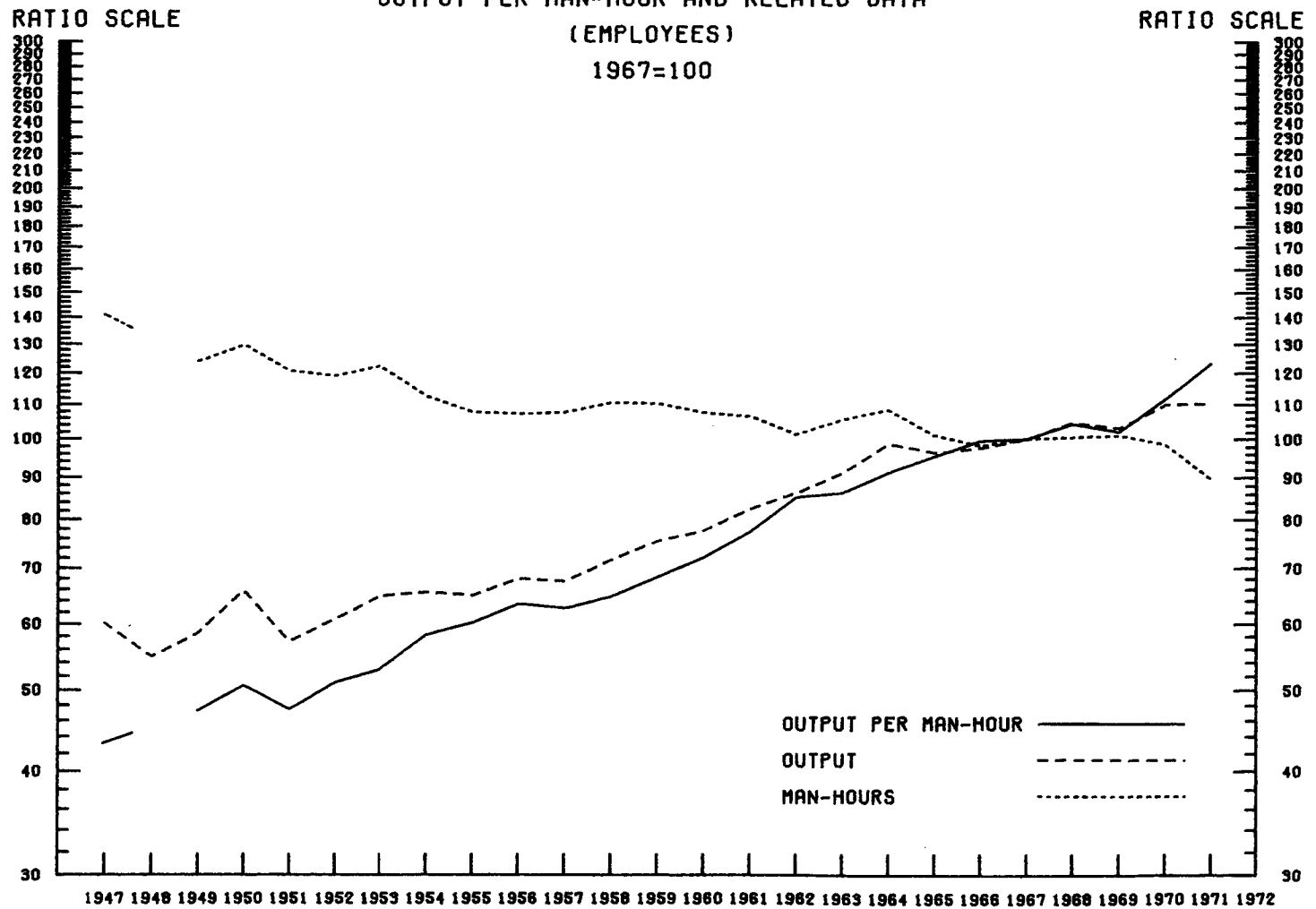
NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 13
 BAKERY PRODUCTS SIC 205, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



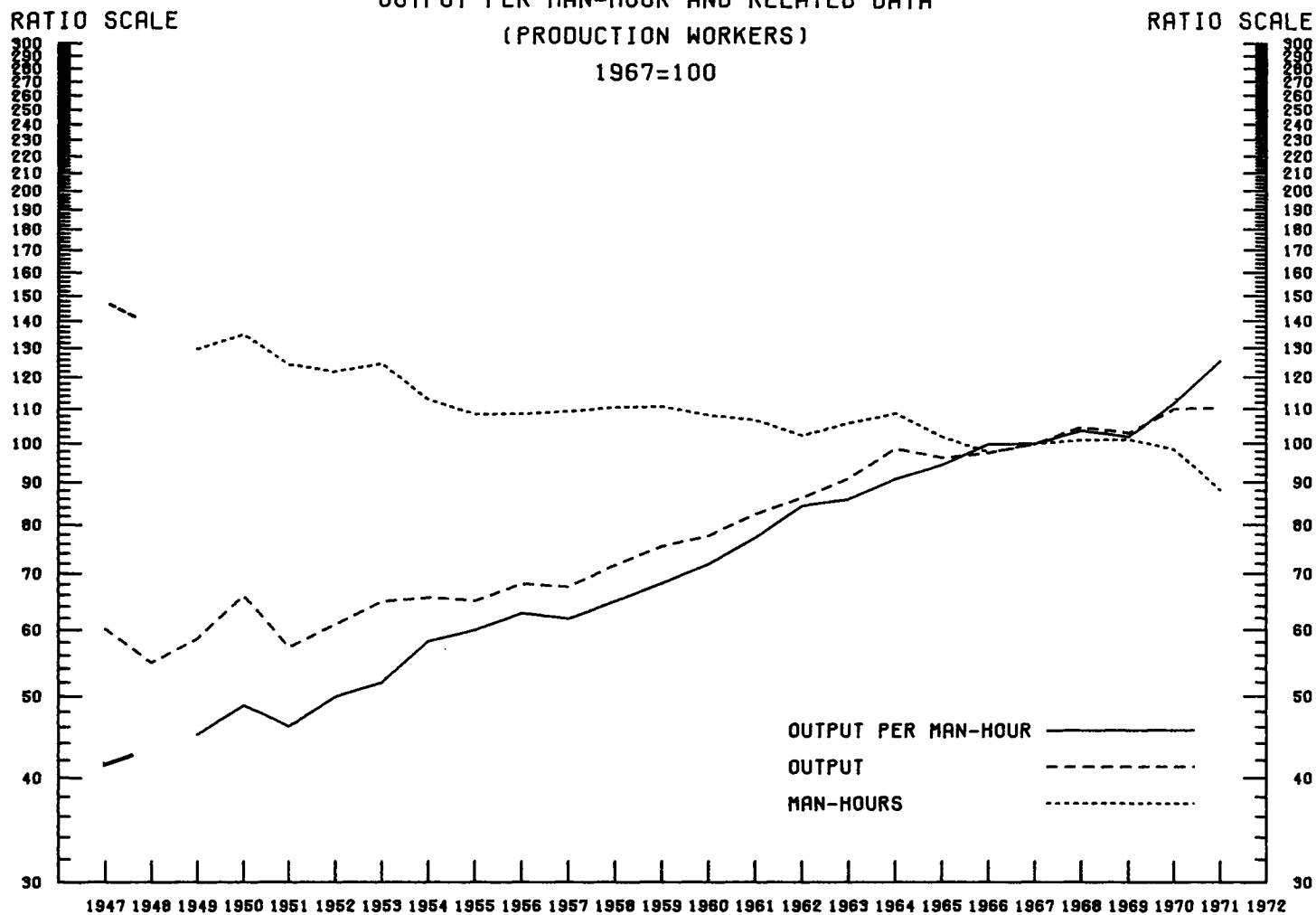
NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 14
 SUGAR SIC 206, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 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, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

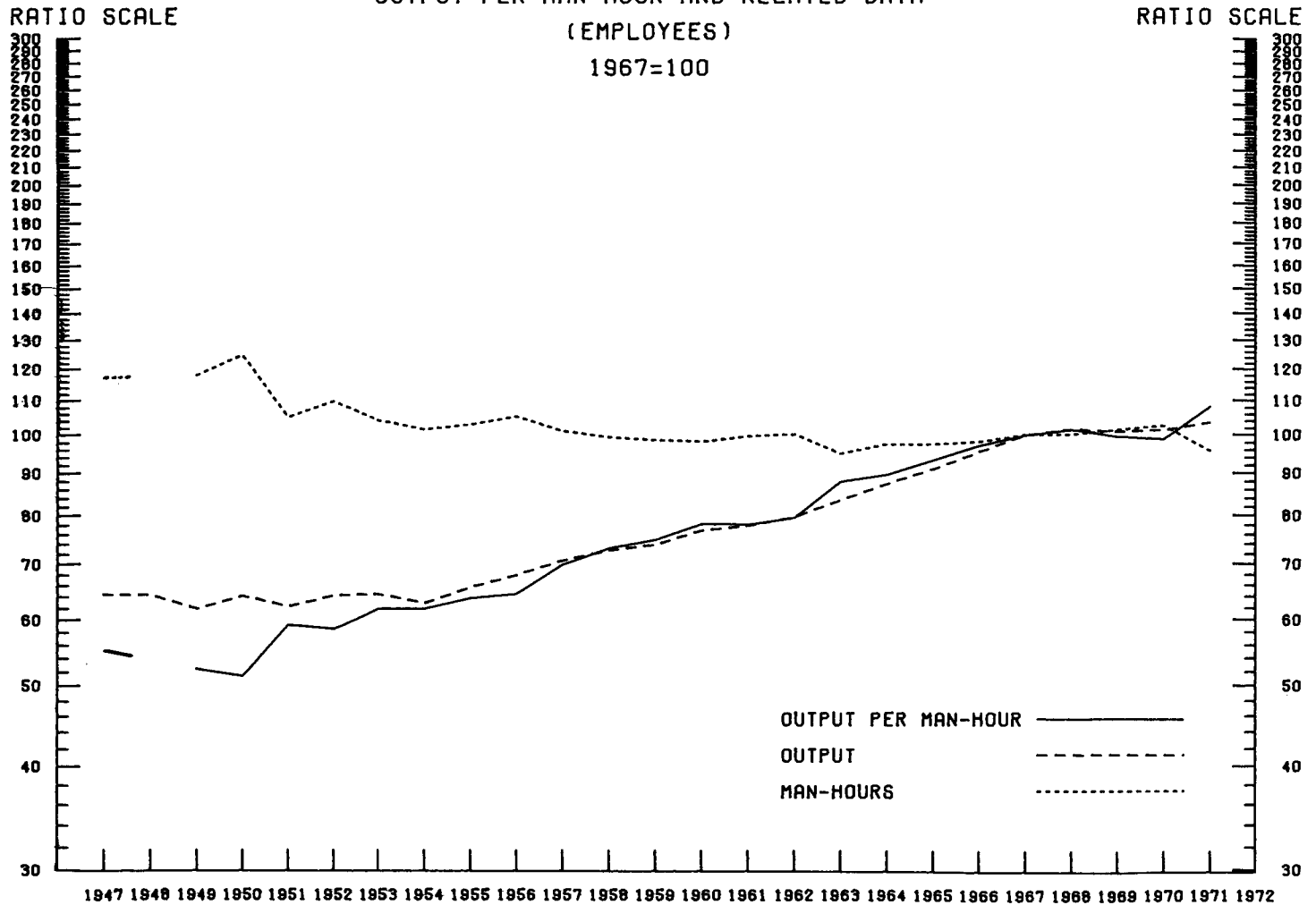
CHART 16
 CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2071, 1947-71

OUTPUT PER MAN-HOUR AND RELATED DATA

(EMPLOYEES)

1967=100

100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.

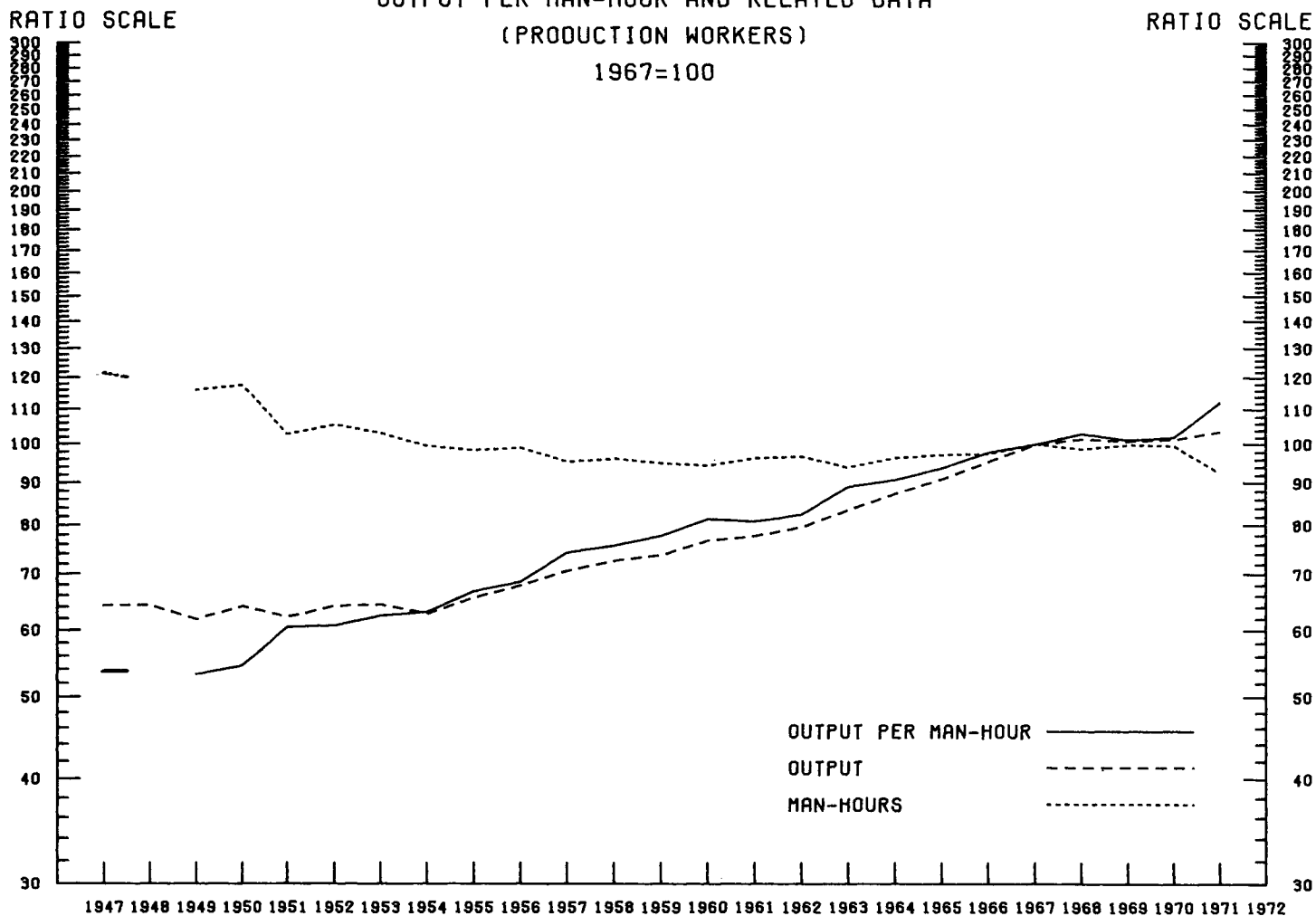
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 17
 CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2071, 1947-71

OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)

1967=100

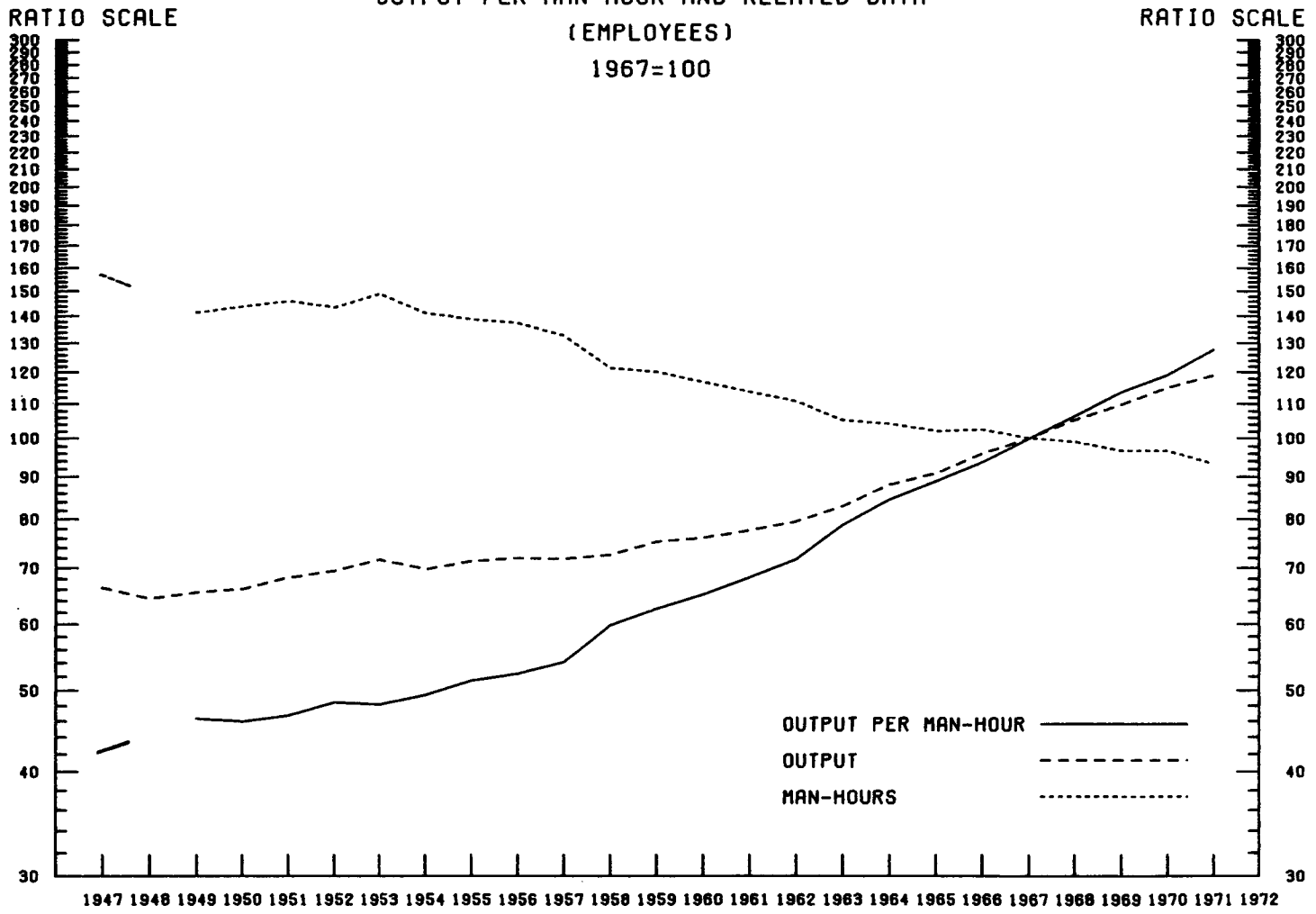
101



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.

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

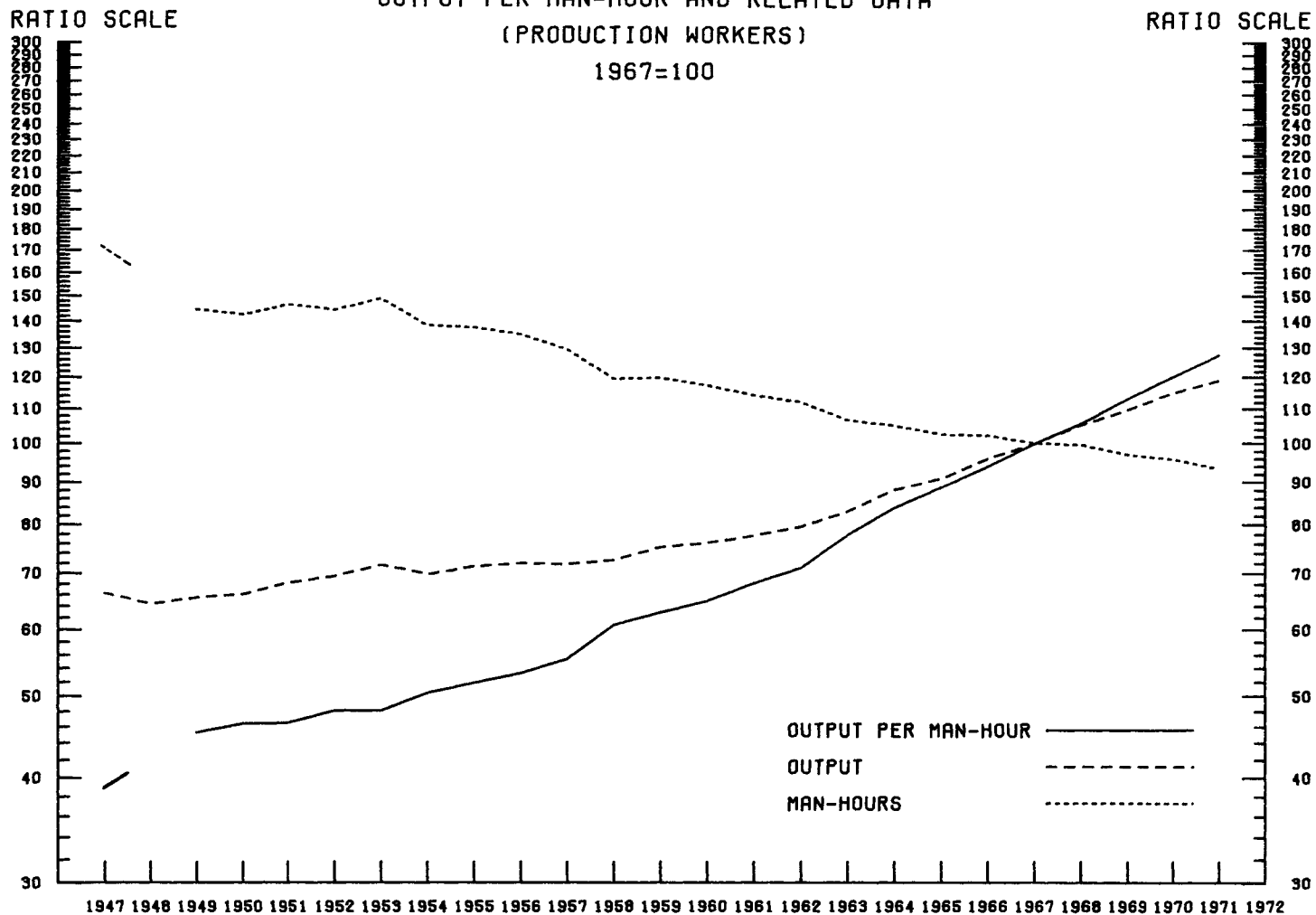
CHART 18
MALT LIQUORS SIC 2082, 1947-71
OUTPUT PER MAN-HOUR AND RELATED DATA
(EMPLOYEES)
1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

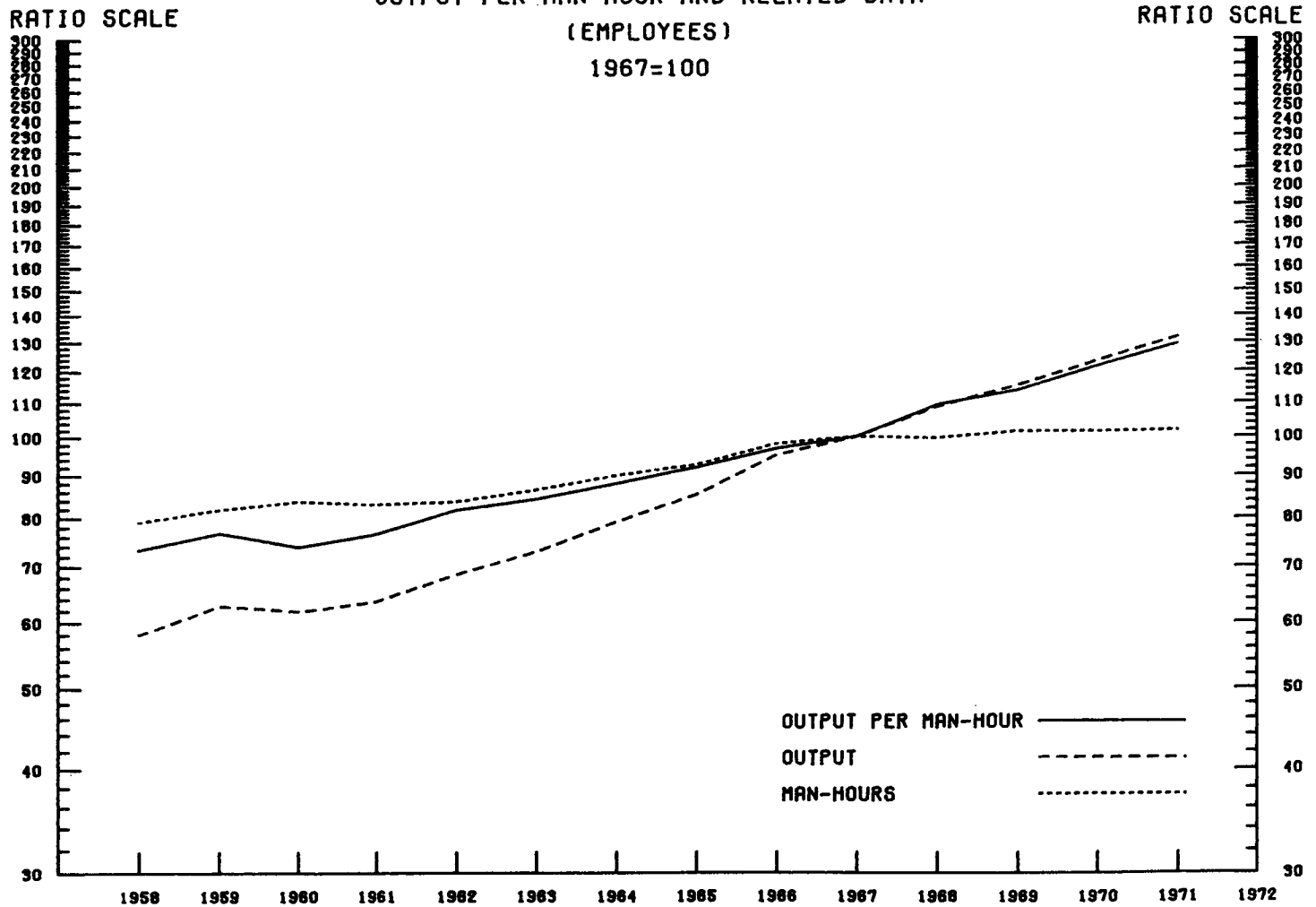
CHART 19
 MALT LIQUORS SIC 2082, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

103



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

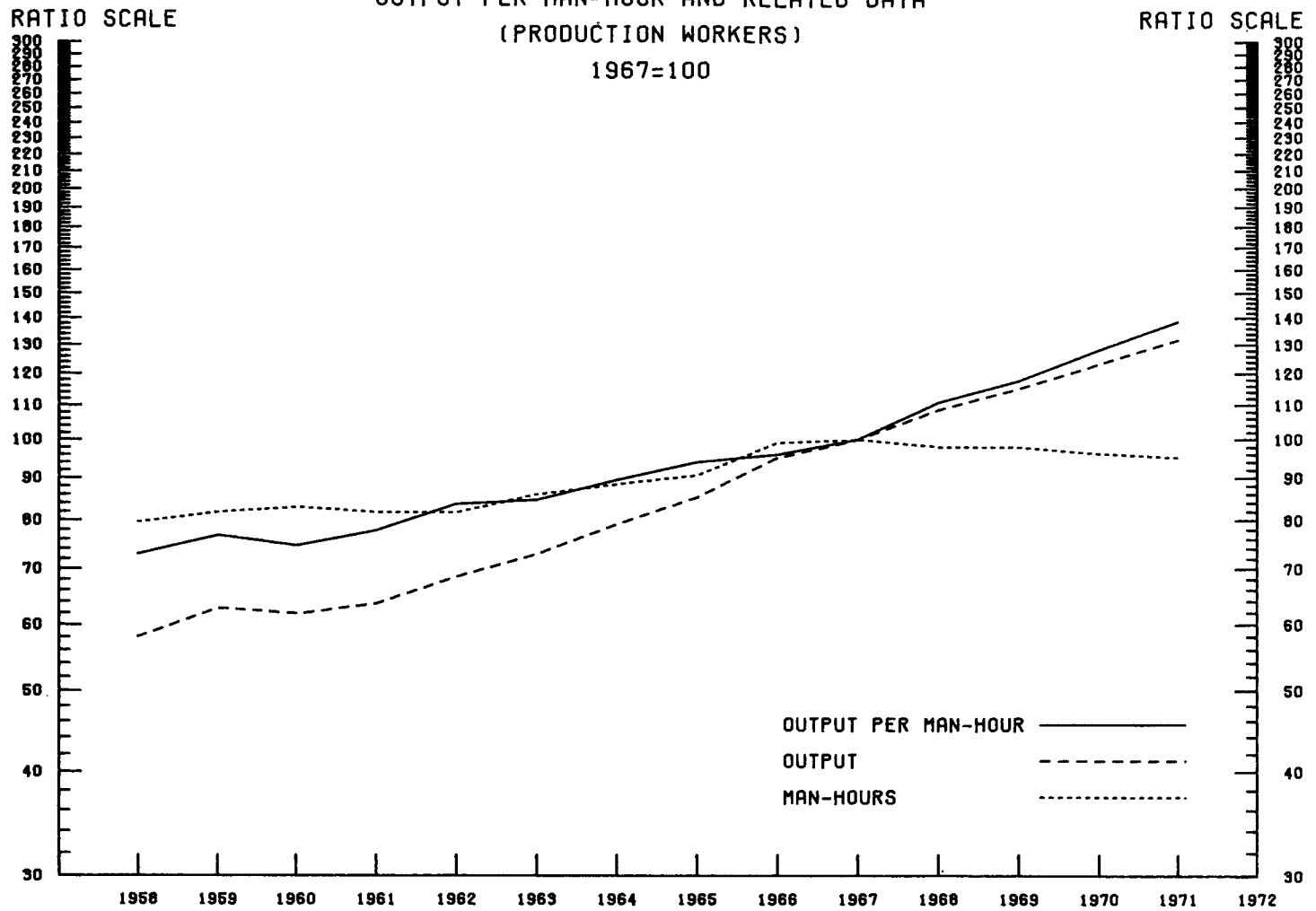
CHART 20
 BOTTLED AND CANNED SOFT DRINKS SIC 2086, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



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

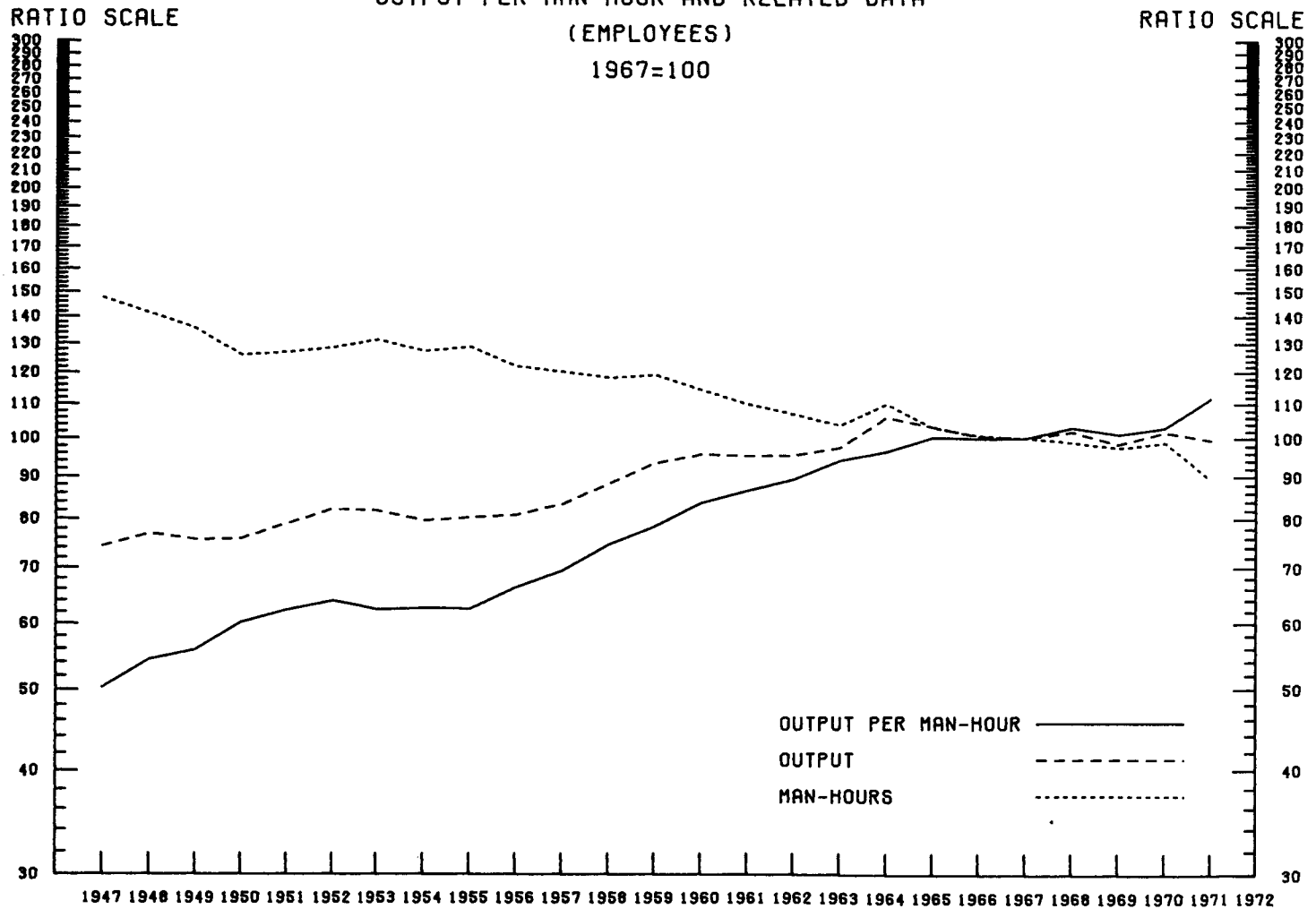
CHART 21
 BOTTLED AND CANNED SOFT DRINKS SIC 2086, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

106



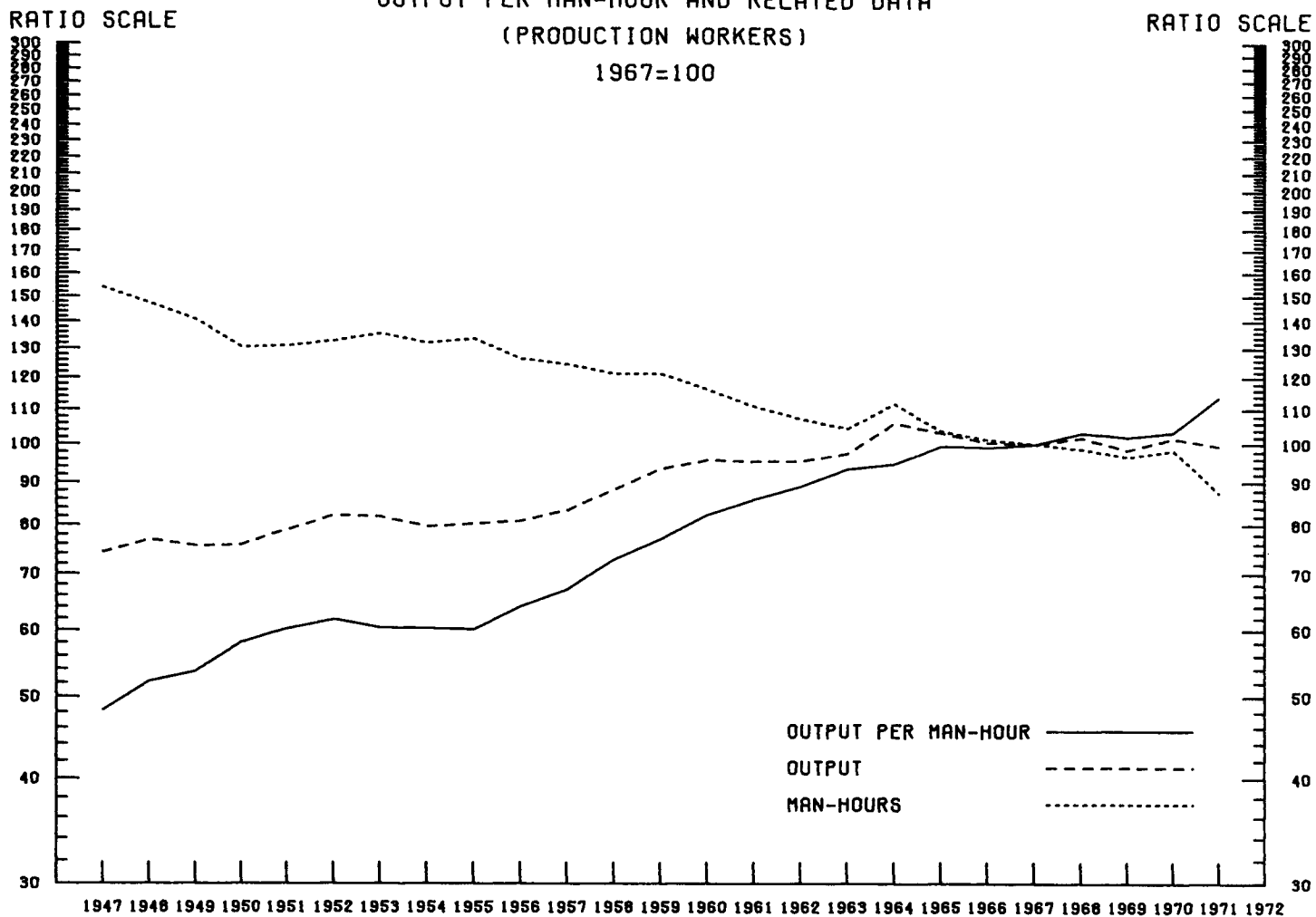
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 22
 TOBACCO PRODUCTS-TOTAL SIC 211, 212, 213, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



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

CHART 23
 TOBACCO PRODUCTS-TOTAL SIC 211, 212, 213, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



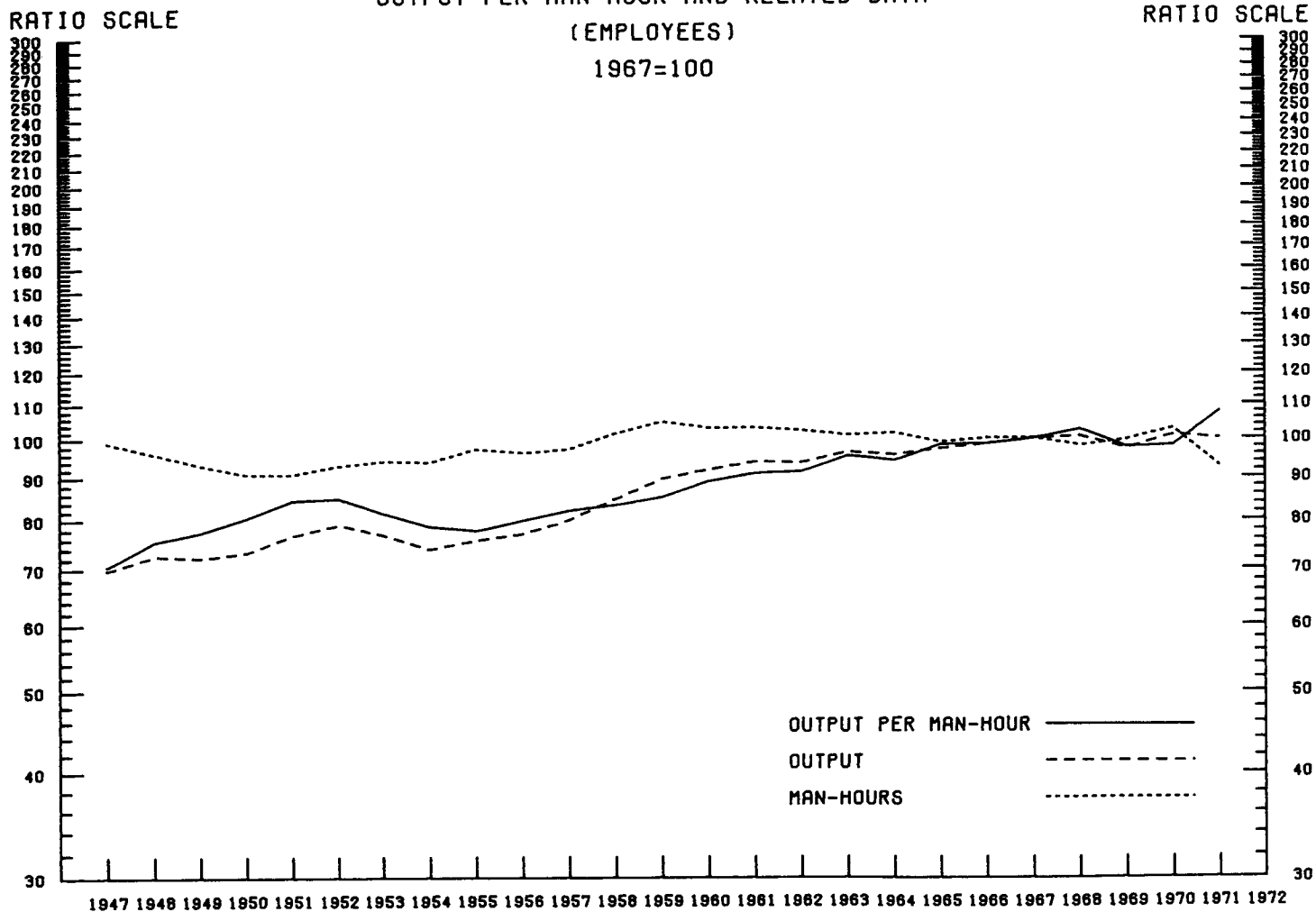
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 24
 CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 211, 213, 1947-71

OUTPUT PER MAN-HOUR AND RELATED DATA

(EMPLOYEES)

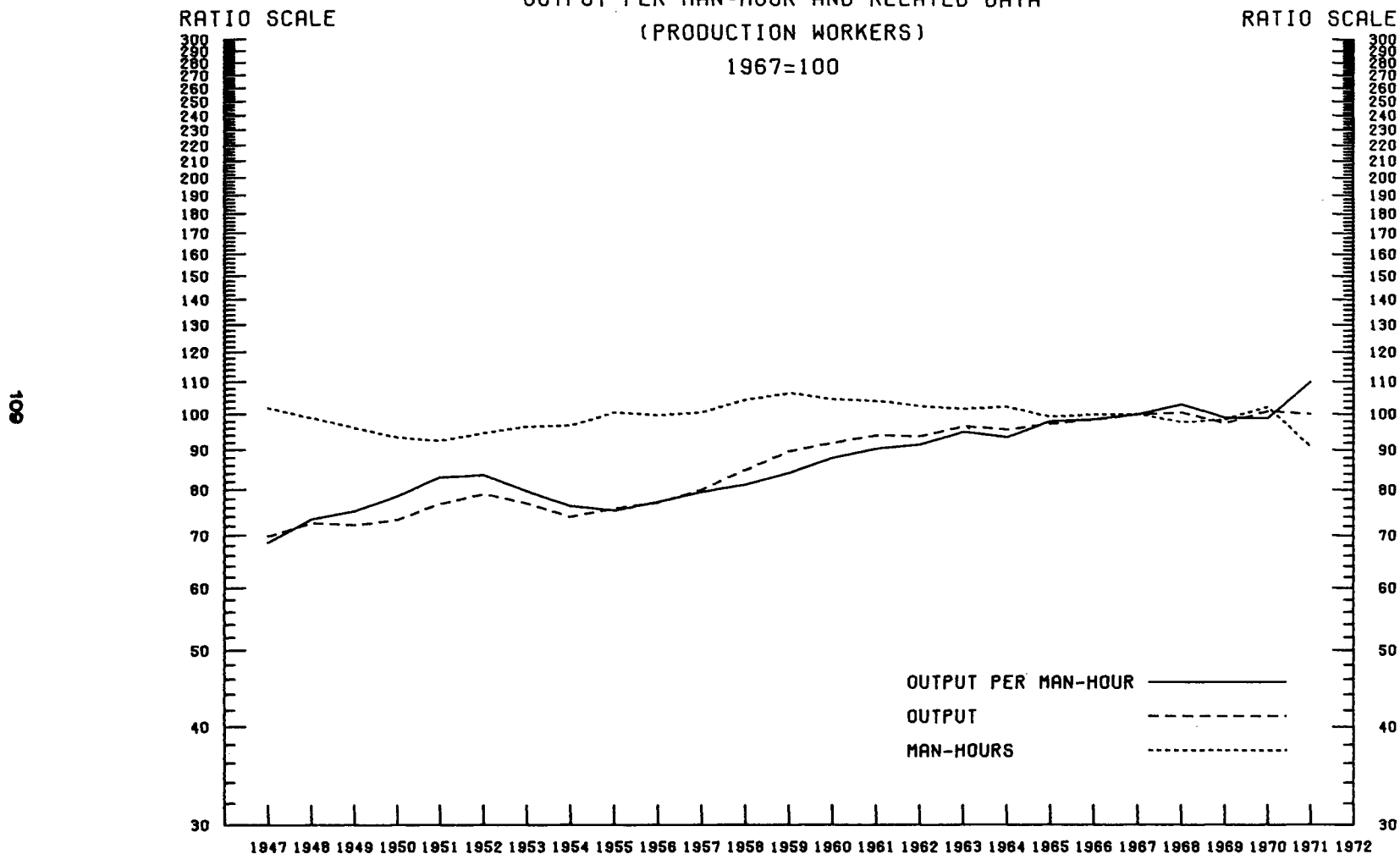
1967=100



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

CHART 25
 CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 211, 213, 1947-71

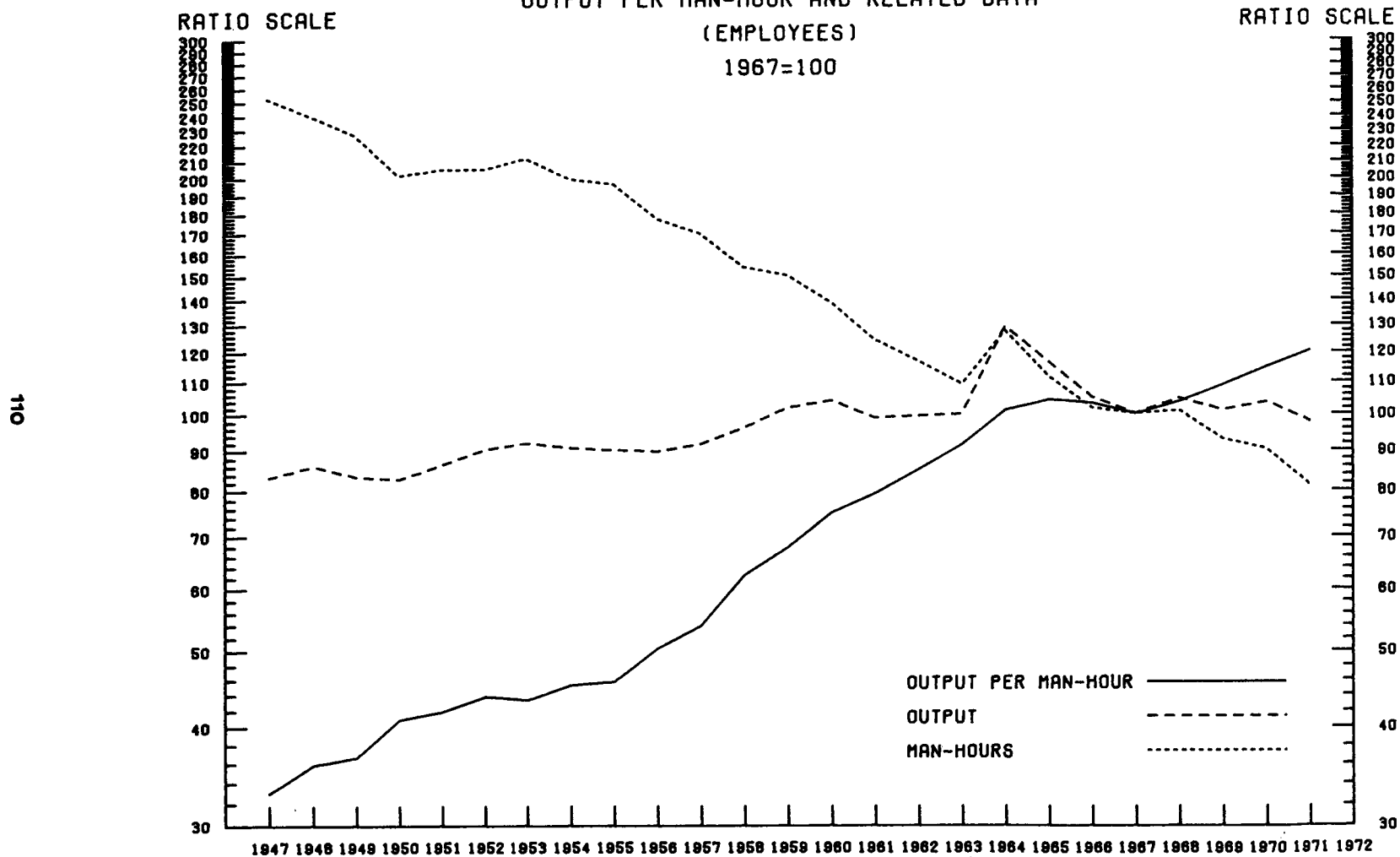
OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



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

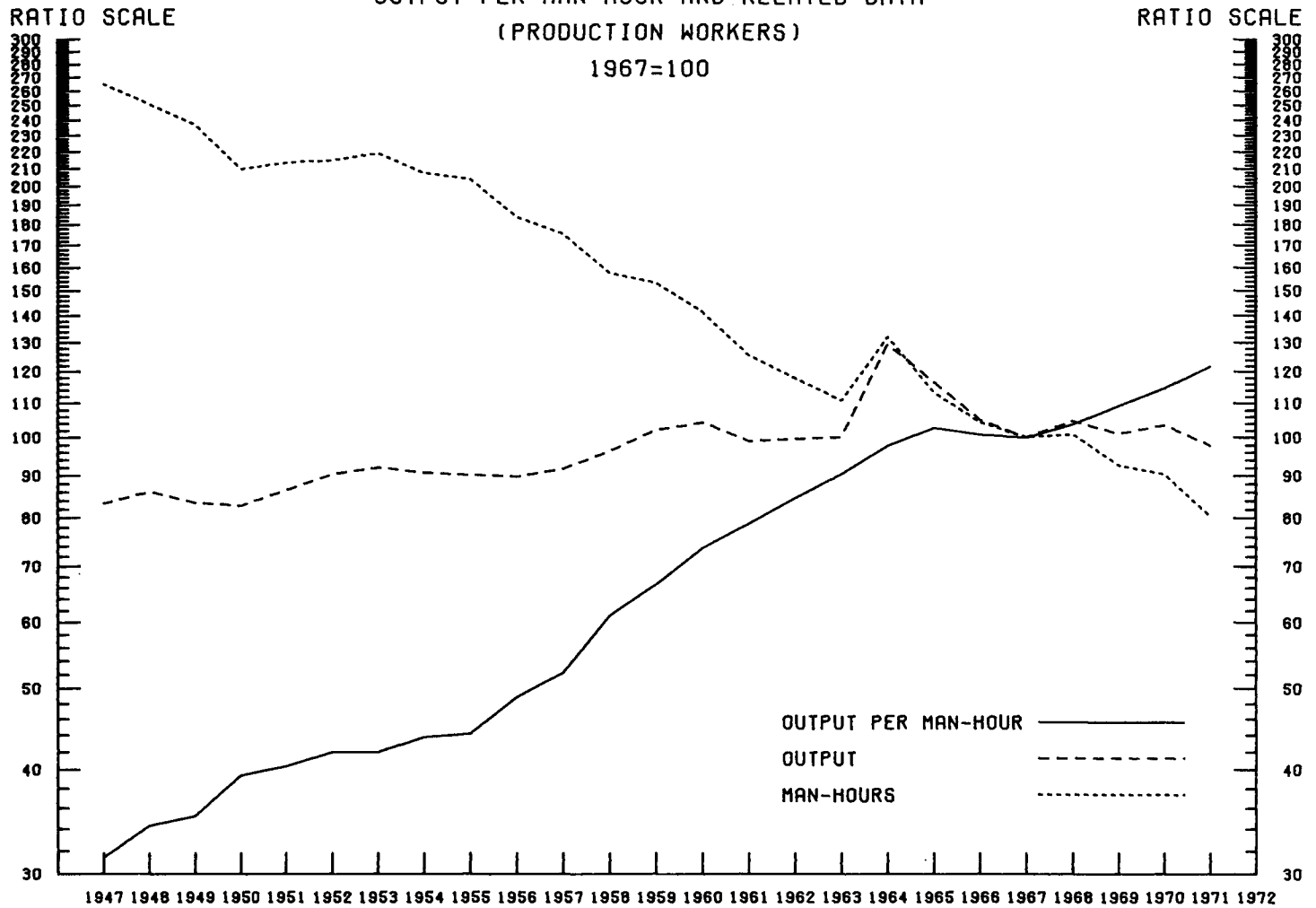
109

CHART 26
 CIGARS SIC 212, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



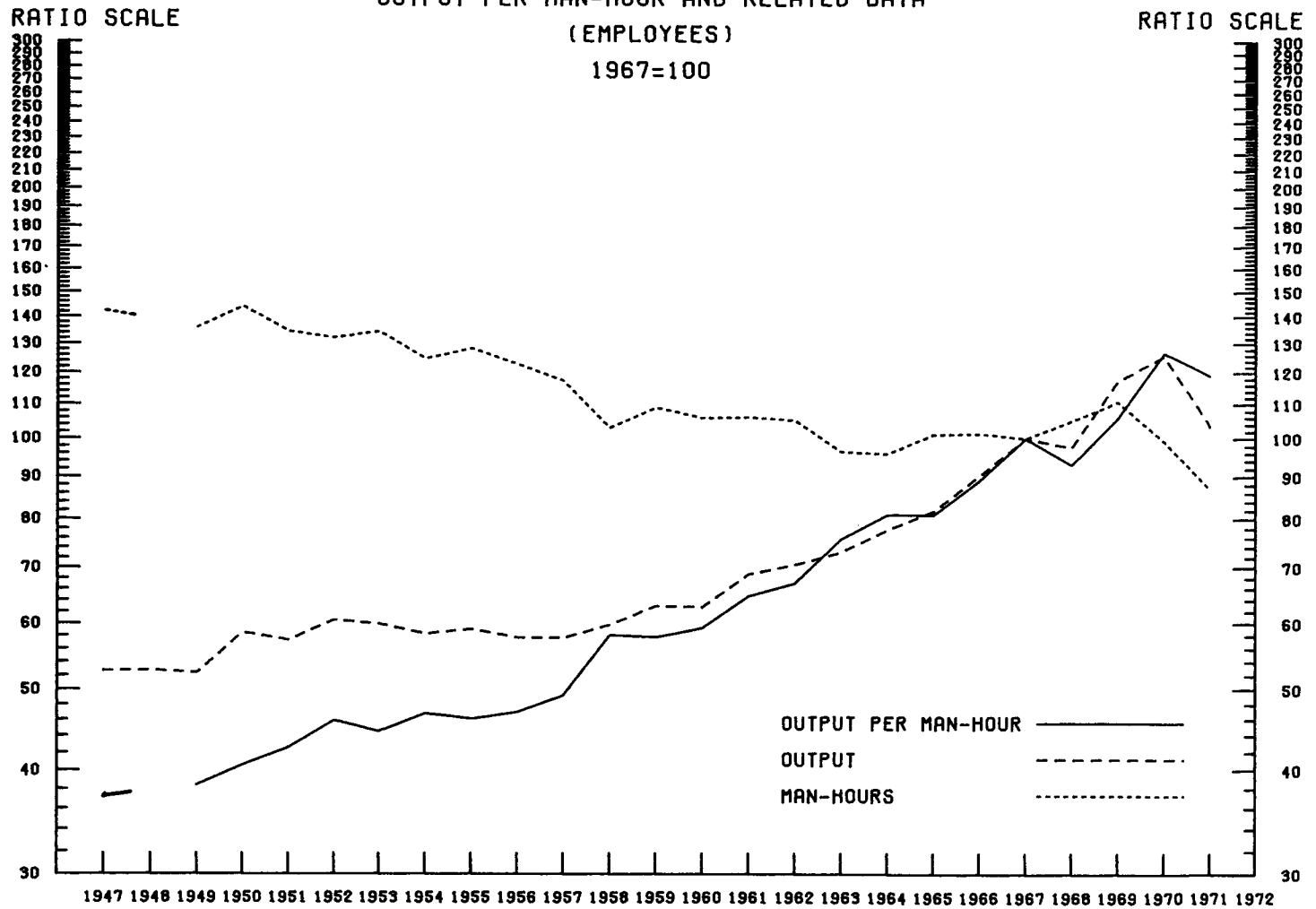
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 27
 CIGARS SIC 212, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



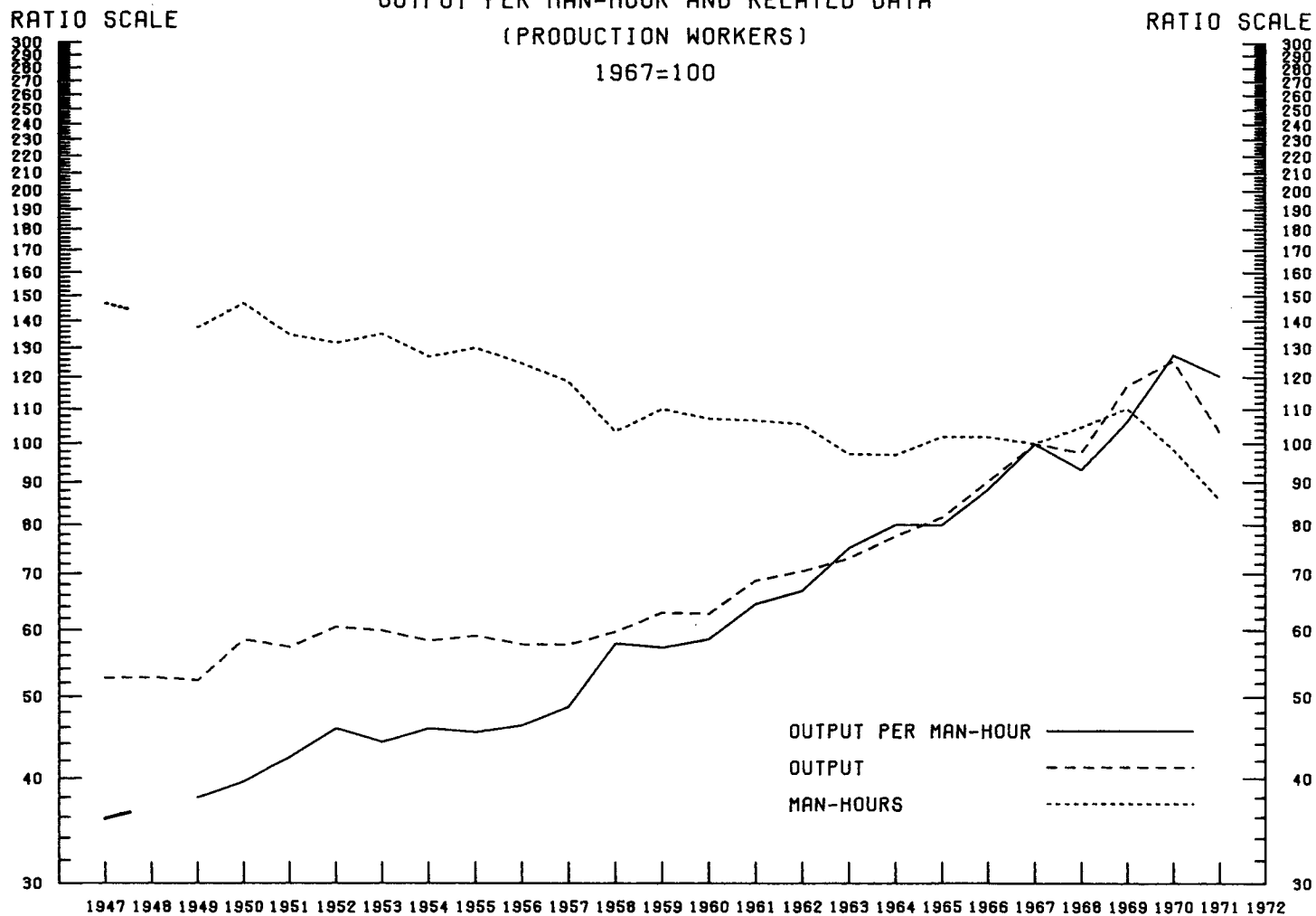
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 28
 HOSIERY SIC 2251, 2252, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

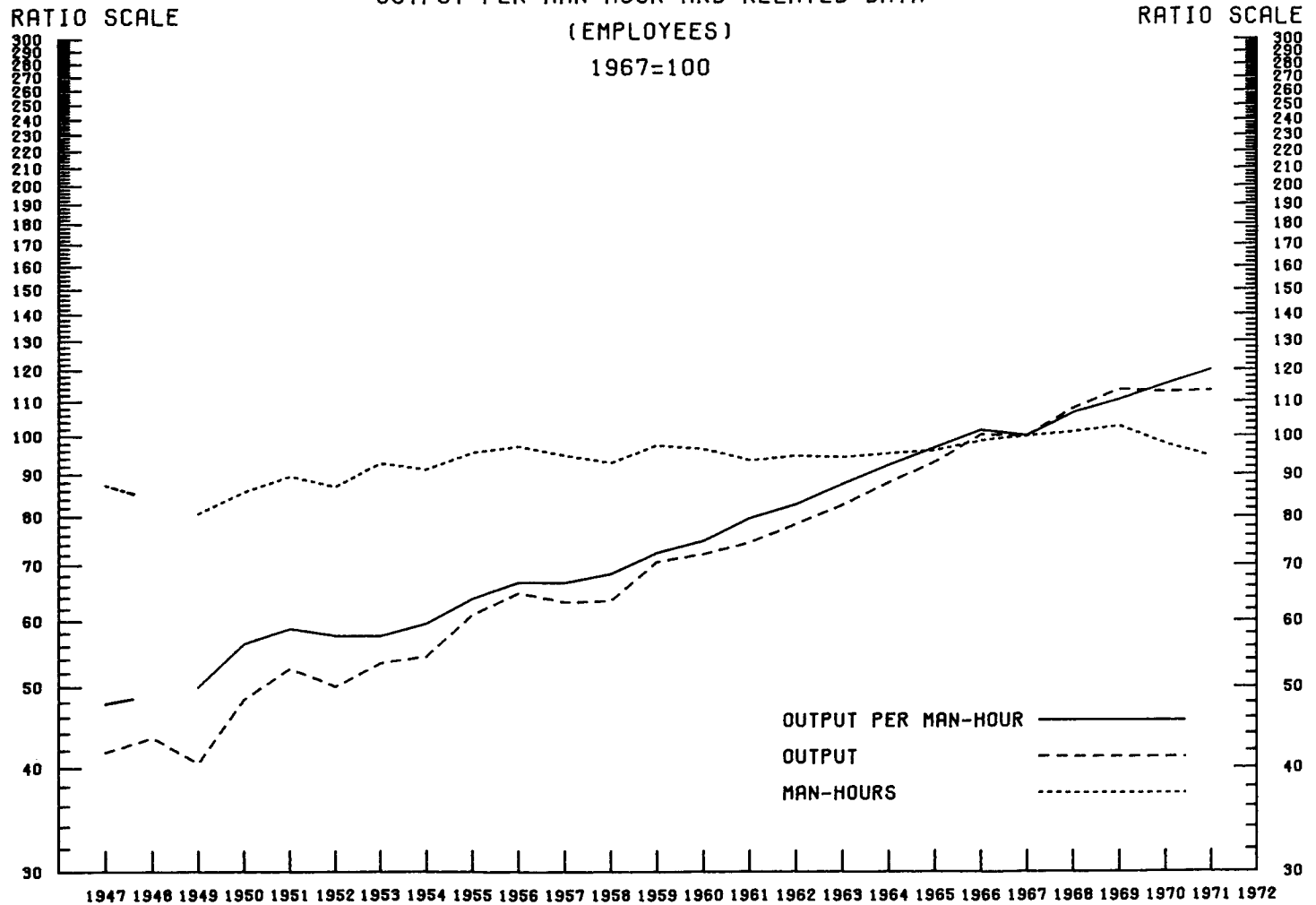
CHART 29
HOSIERY SIC 2251, 2252, 1947-71
OUTPUT PER MAN-HOUR AND RELATED DATA
(PRODUCTION WORKERS)
1967=100



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, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA

(EMPLOYEES)
 1967=100



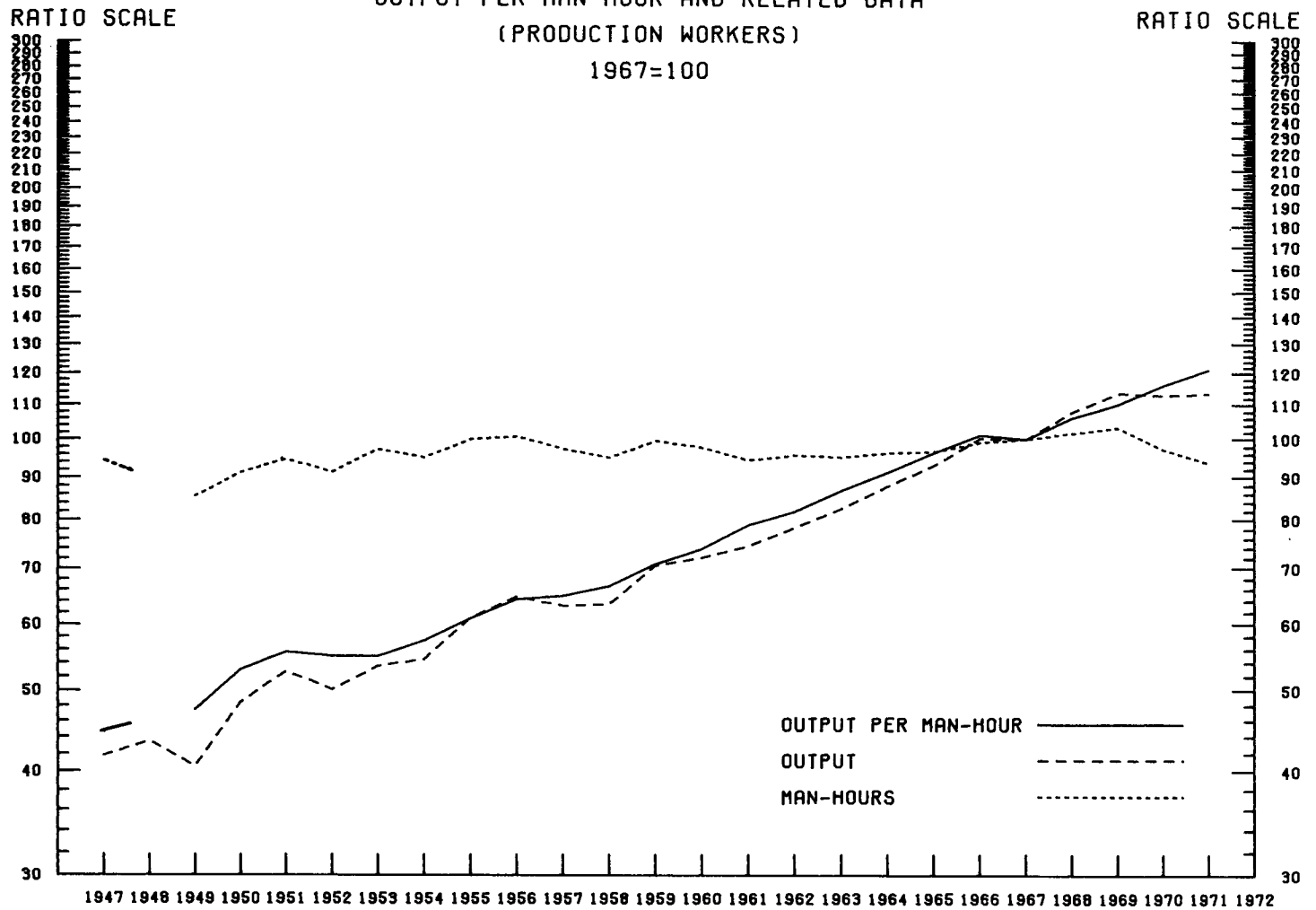
NOTE-WHERE SERIES ARE NOT CONTINUOUS. DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 31
 PAPER, PAPERBOARD AND PULP MILLS SIC 261, 262, 263, 266, 1947-71

OUTPUT PER MAN-HOUR AND RELATED DATA

(PRODUCTION WORKERS)

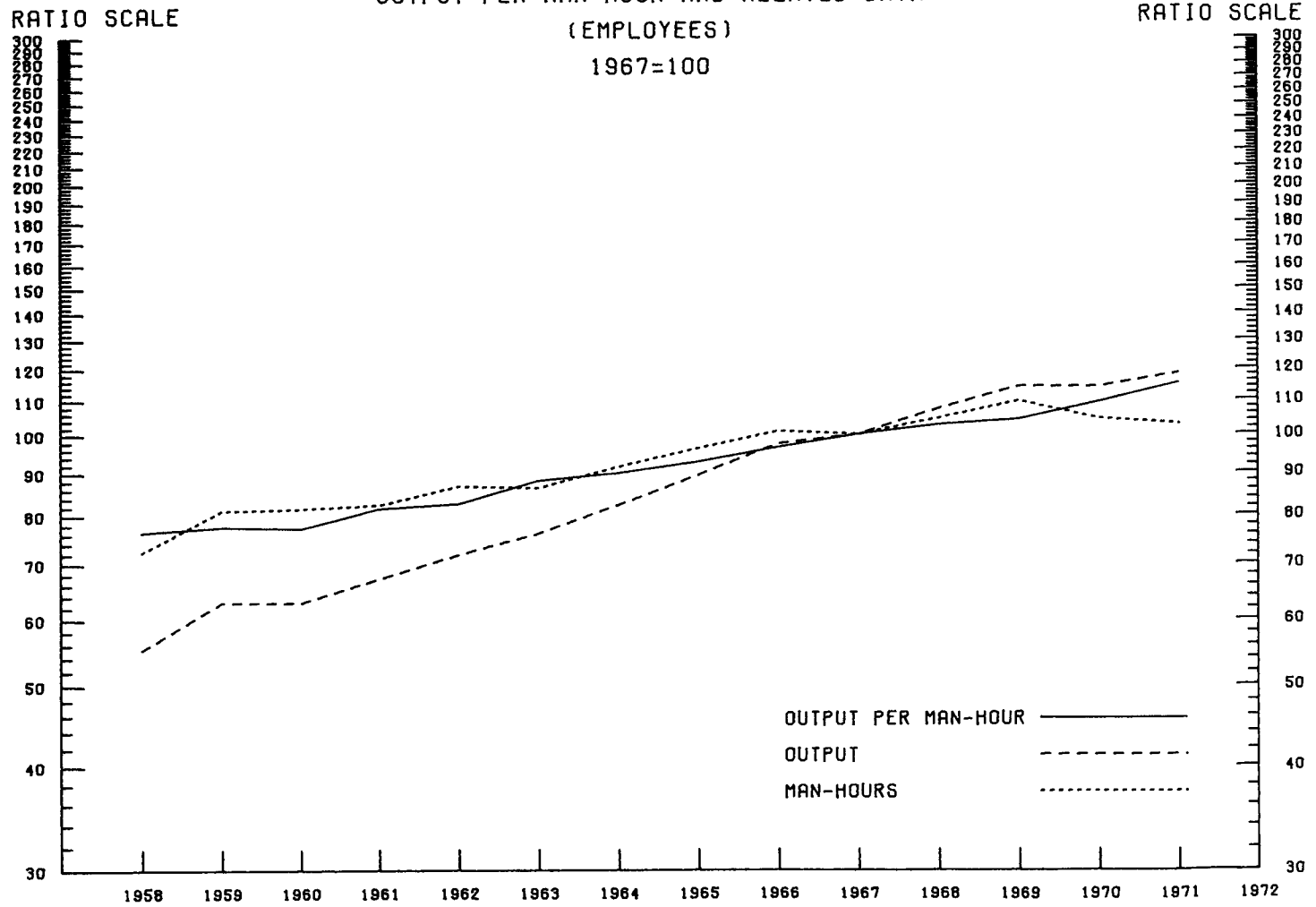
1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.

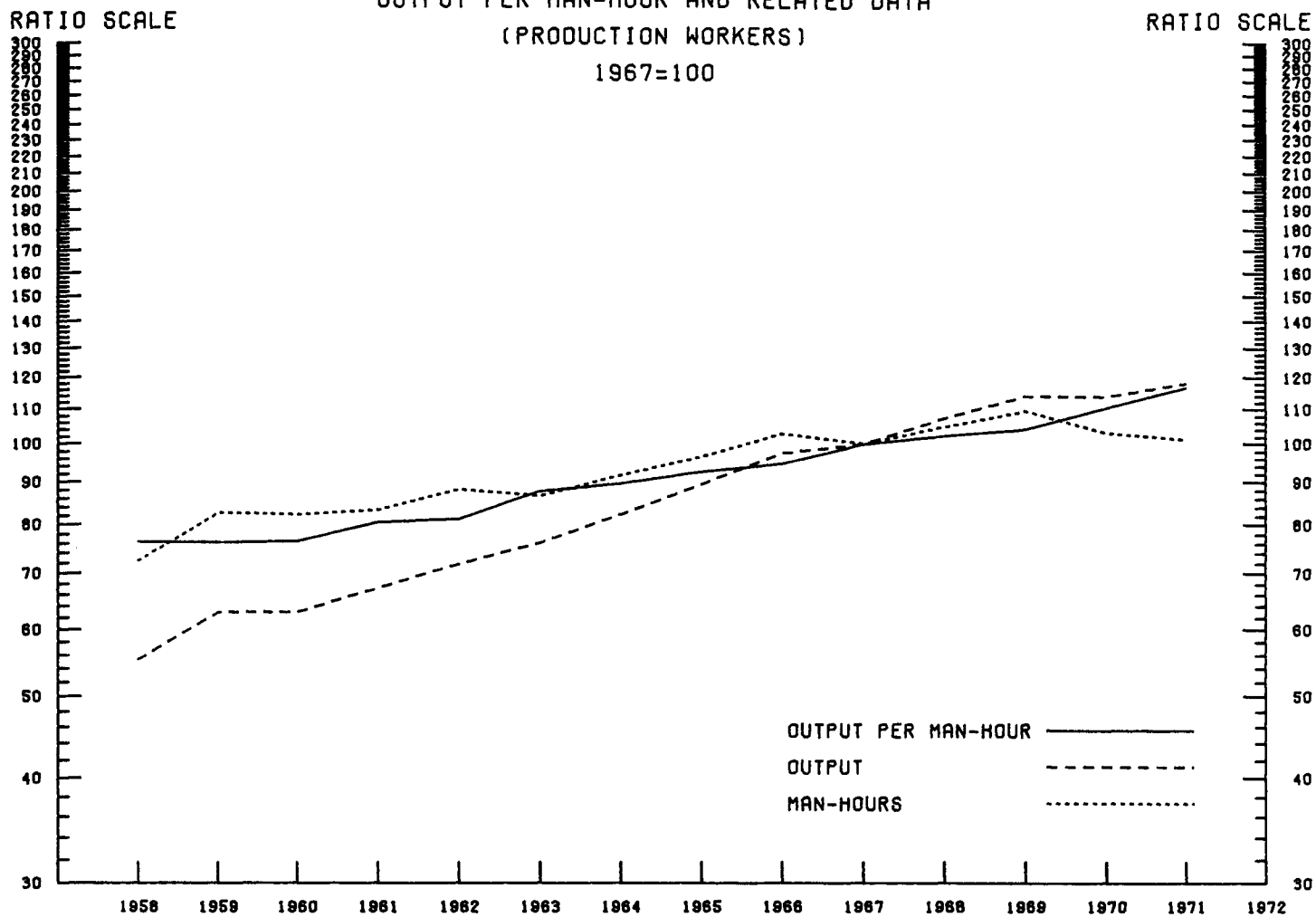
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 32
 CORRUGATED AND SOLID FIBER BOXES SIC 2653, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



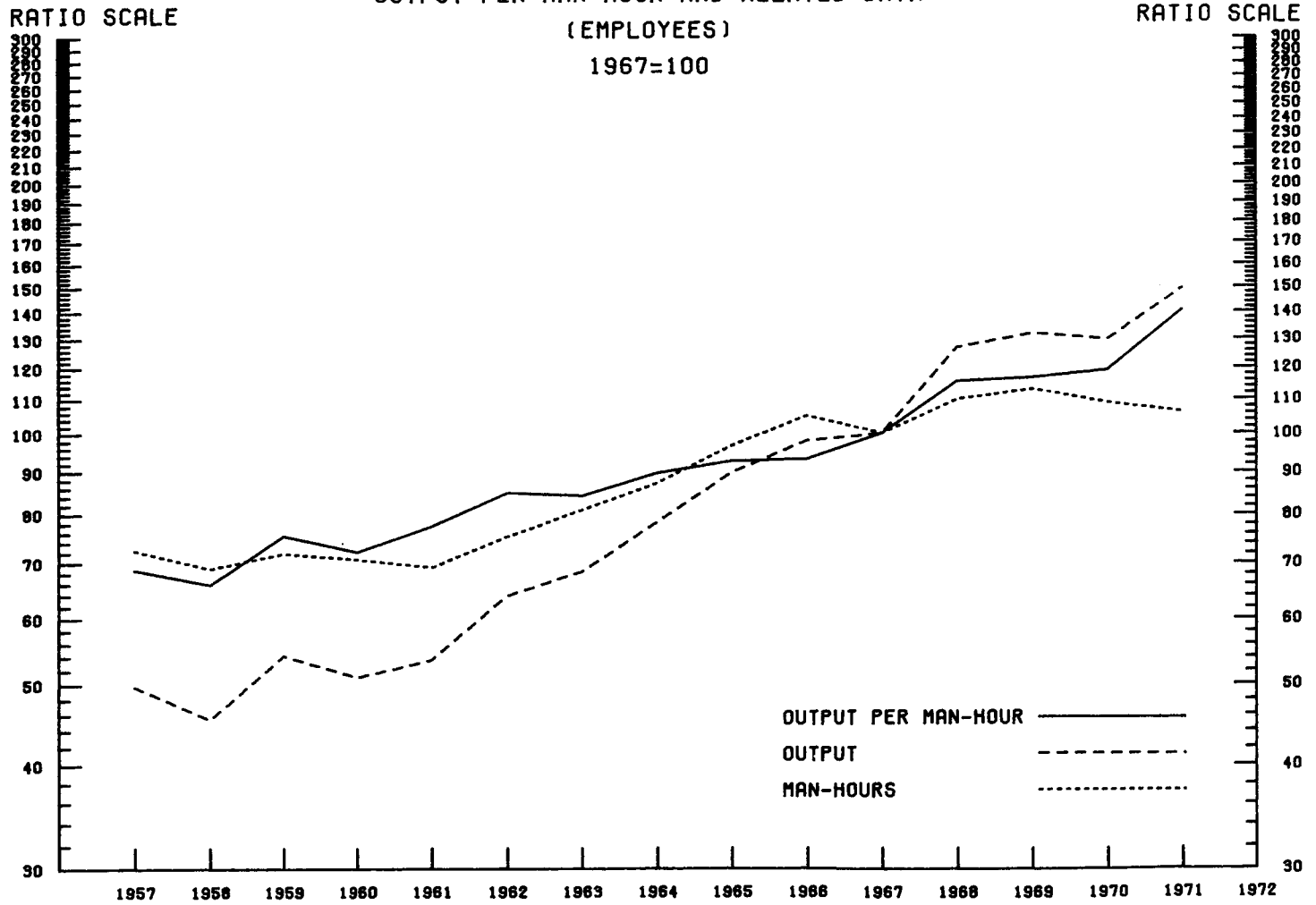
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 33
 CORRUGATED AND SOLID FIBER BOXES SIC 2653, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



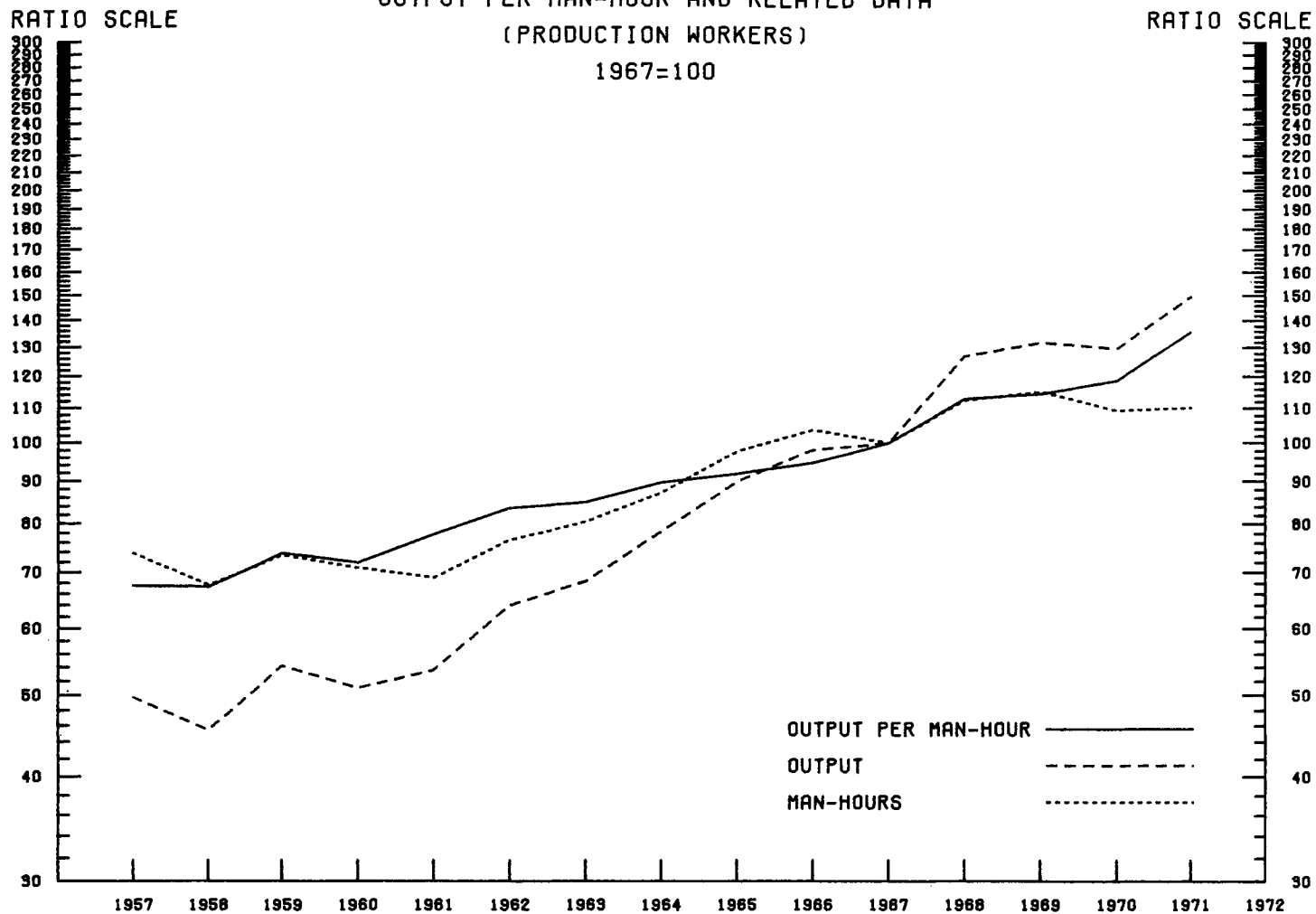
SOURCE-U.S. DEPARTMENT OF LABOR. BUREAU OF LABOR STATISTICS.

CHART 34
 MAN-MADE FIBERS SIC 2823, 2824, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



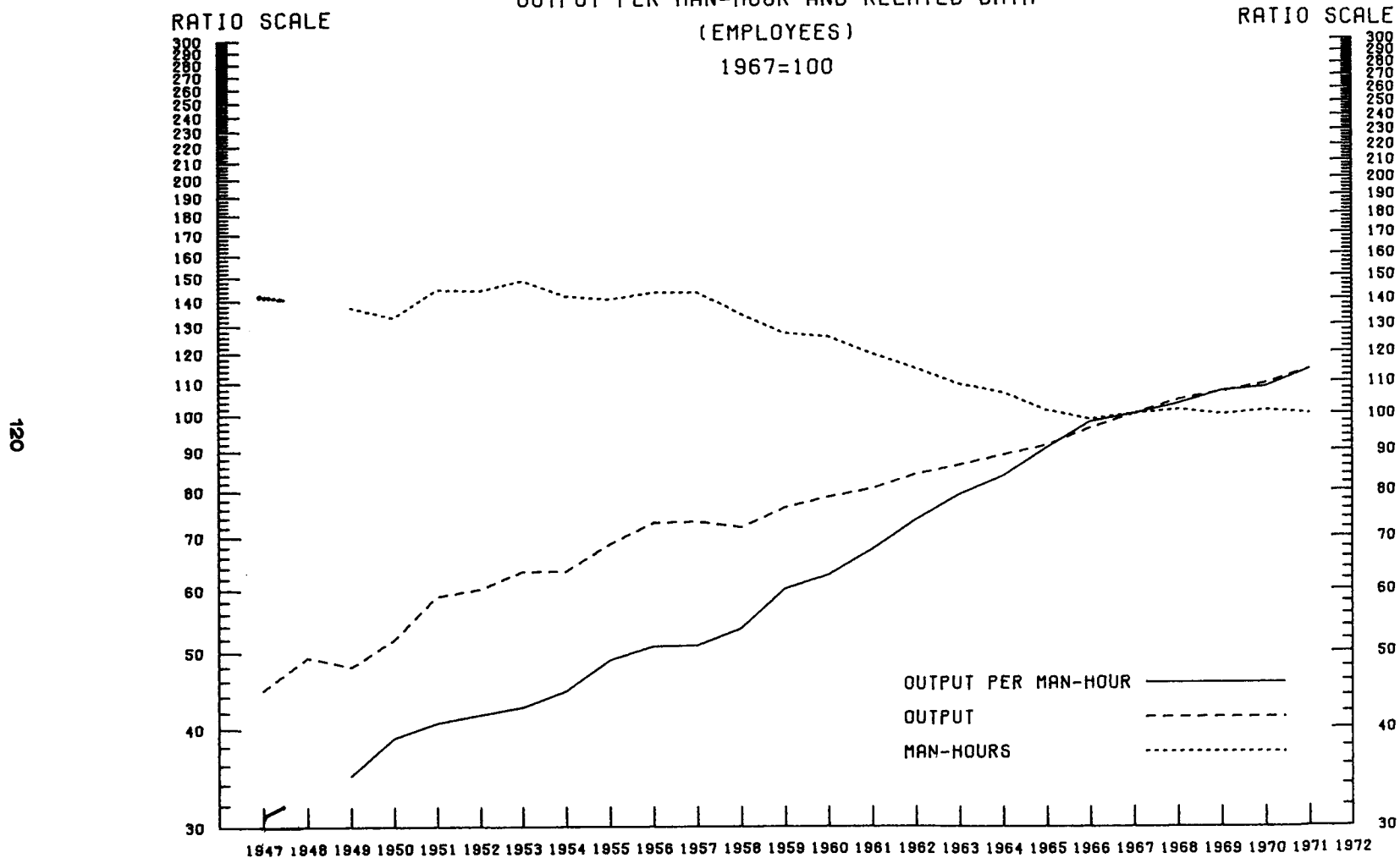
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 35
 MAN-MADE FIBERS SIC 2823, 2824, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



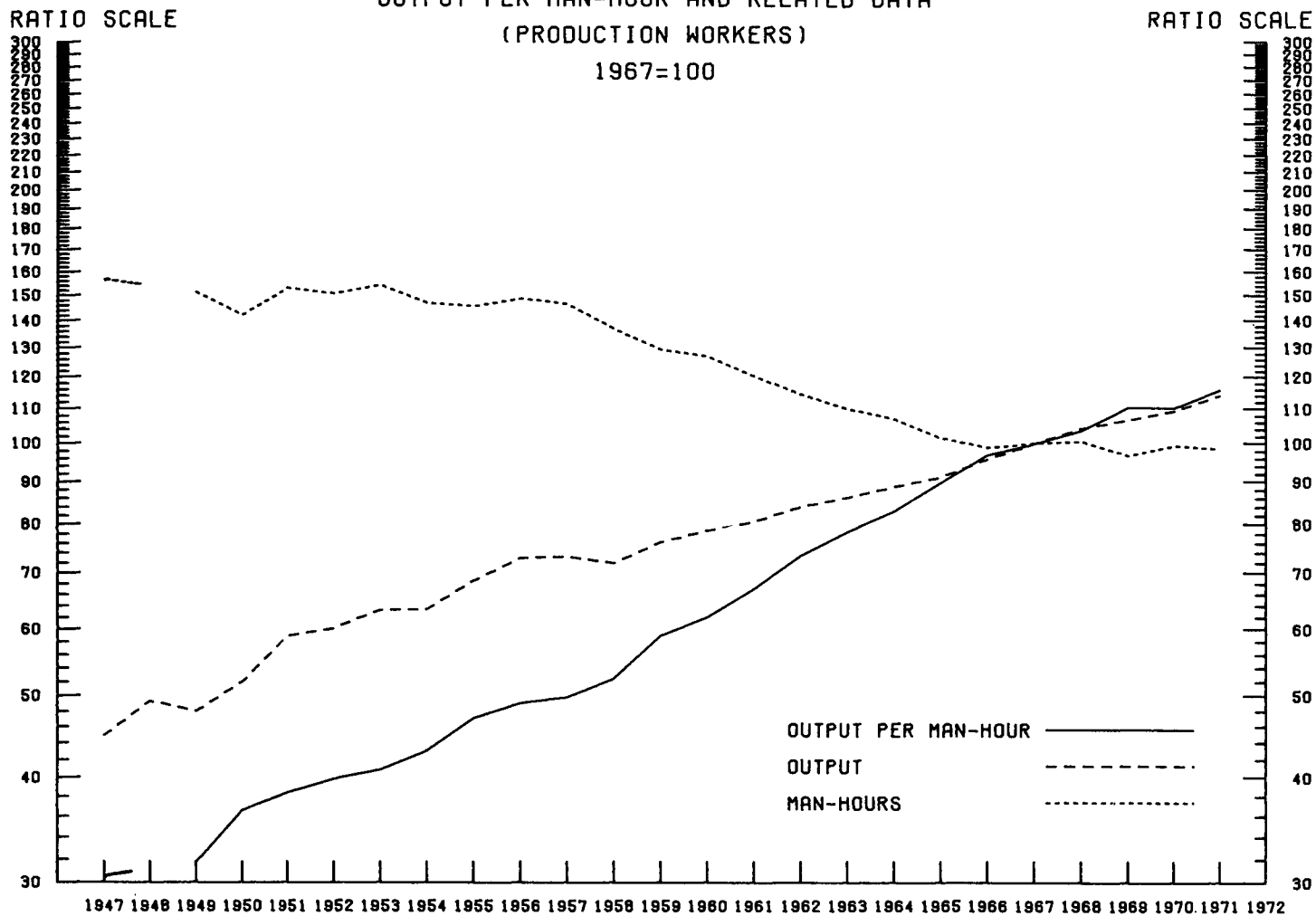
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 36
 PETROLEUM REFINING SIC 291, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

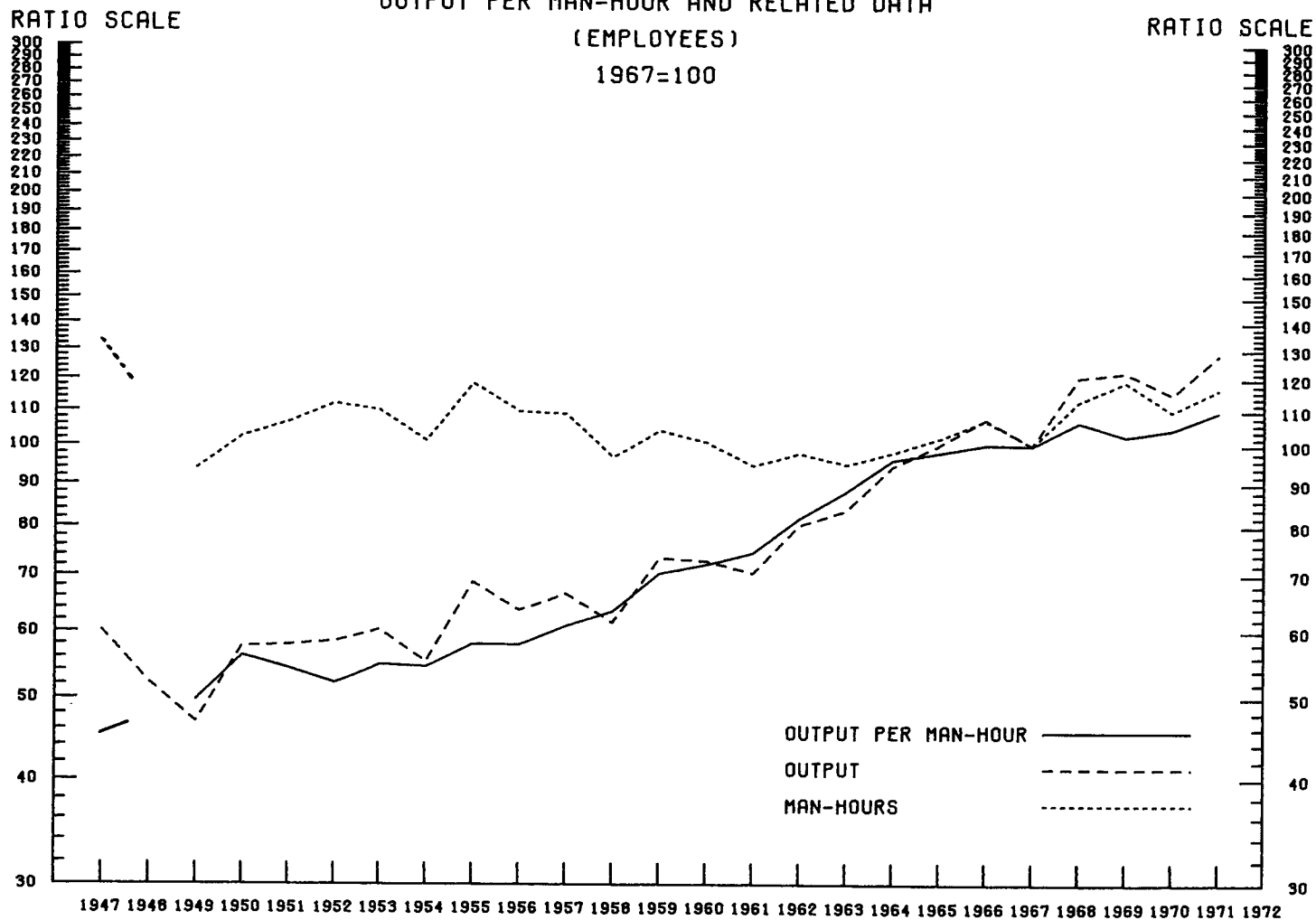
CHART 37
 PETROLEUM REFINING SIC 291, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

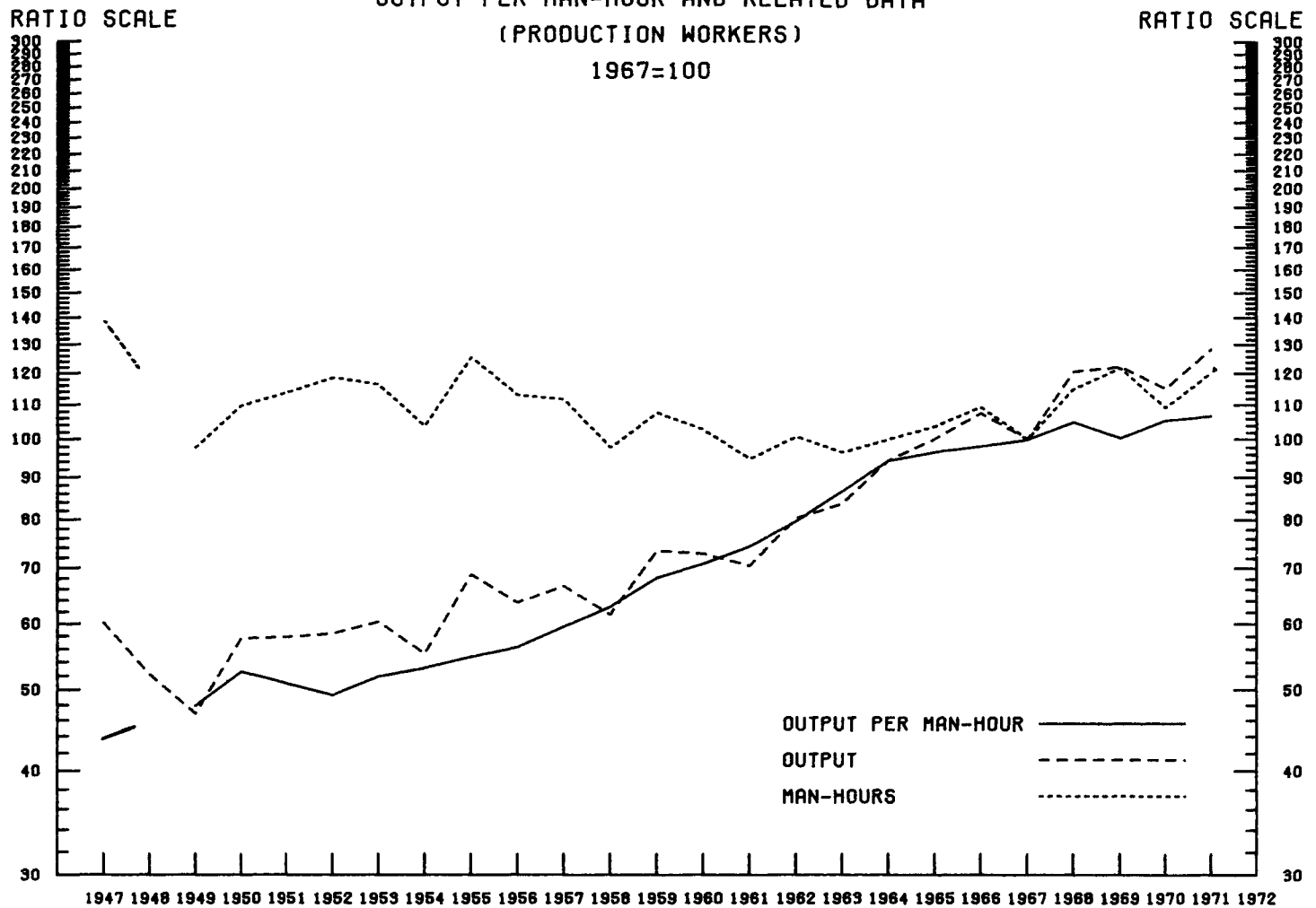
CHART 38
 TIRES AND INNER TUBES SIC 301, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100

122



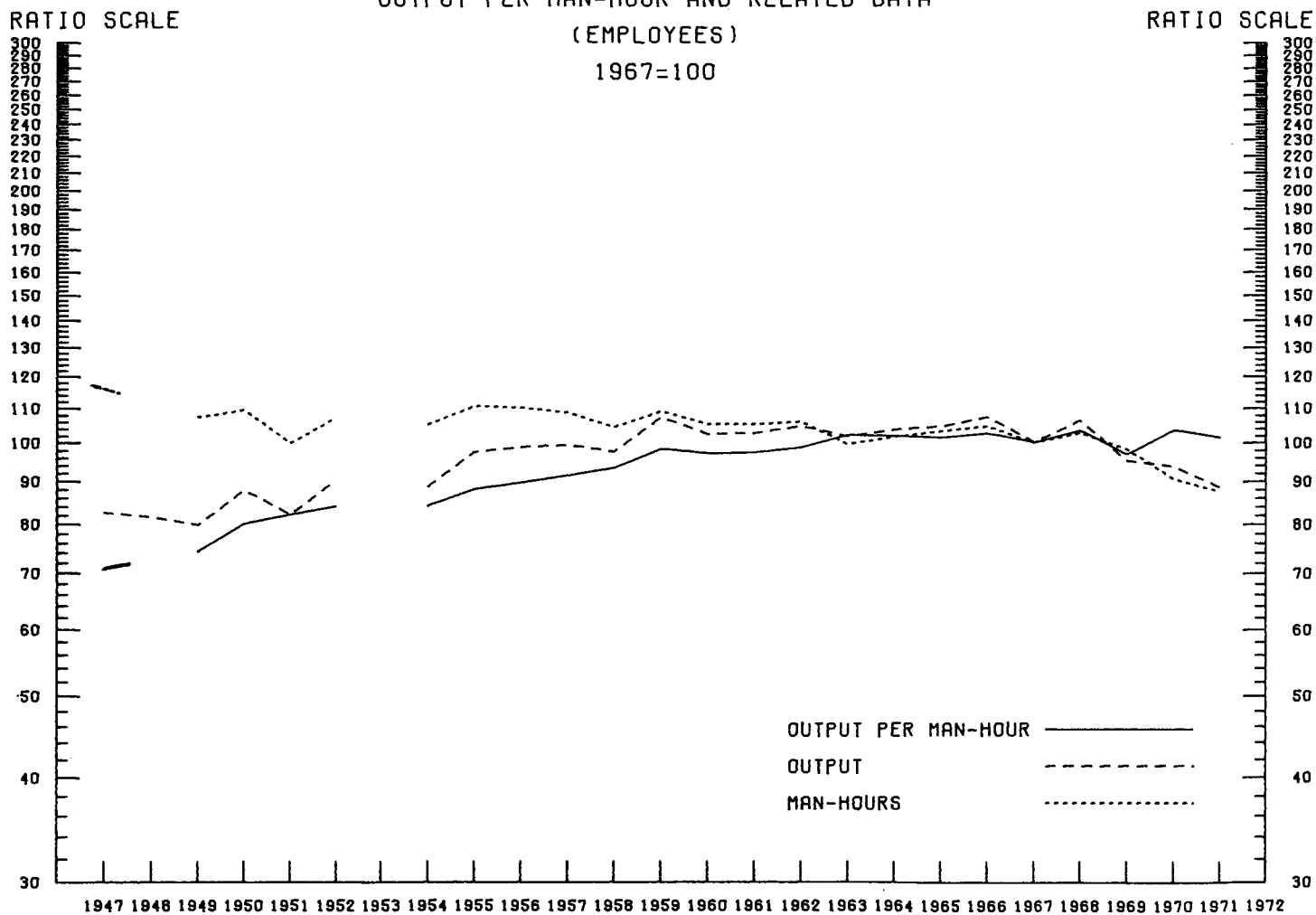
NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 39
 TIRES AND INNER TUBES SIC 301, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



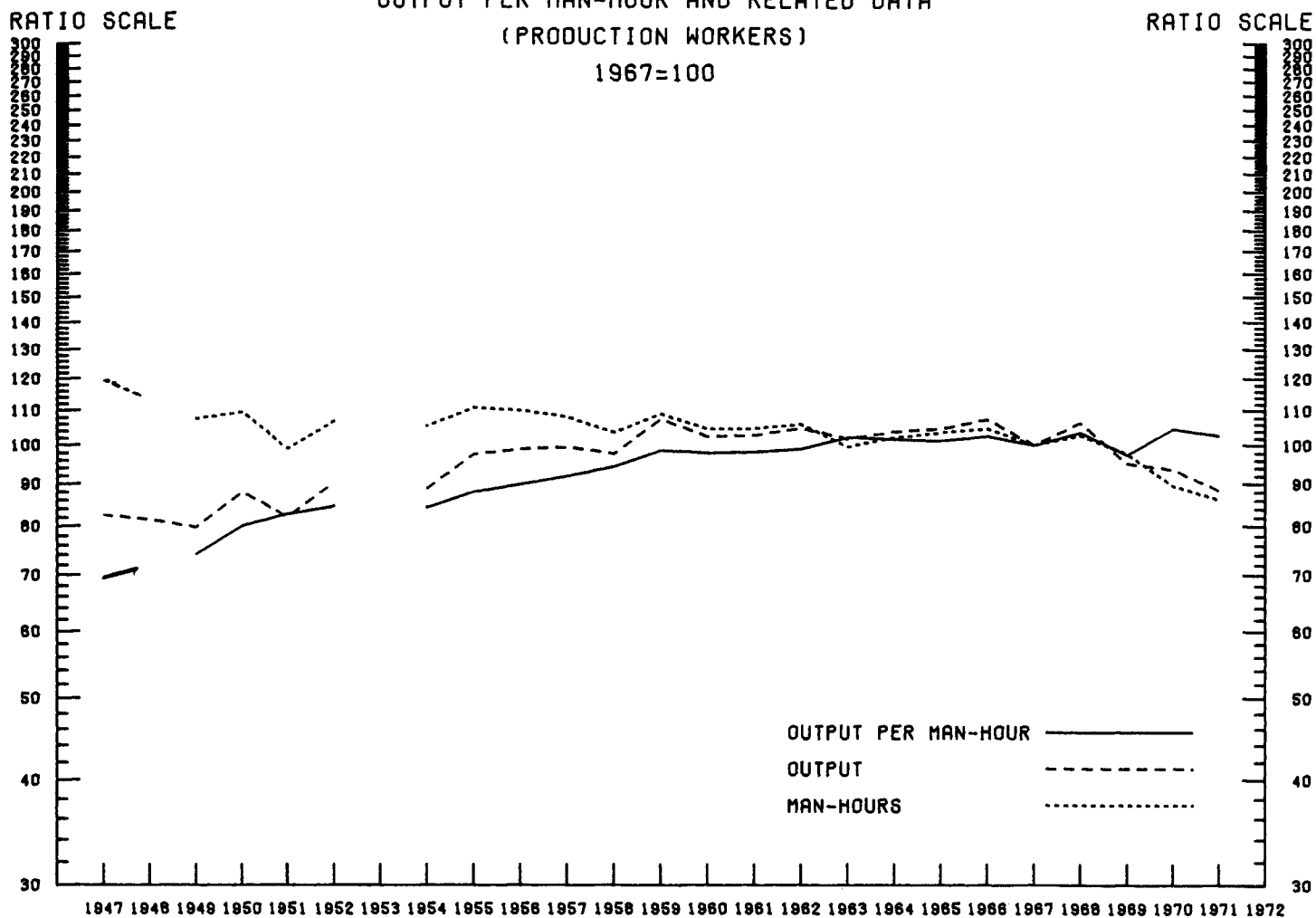
NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 40
 FOOTWEAR SIC 314, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

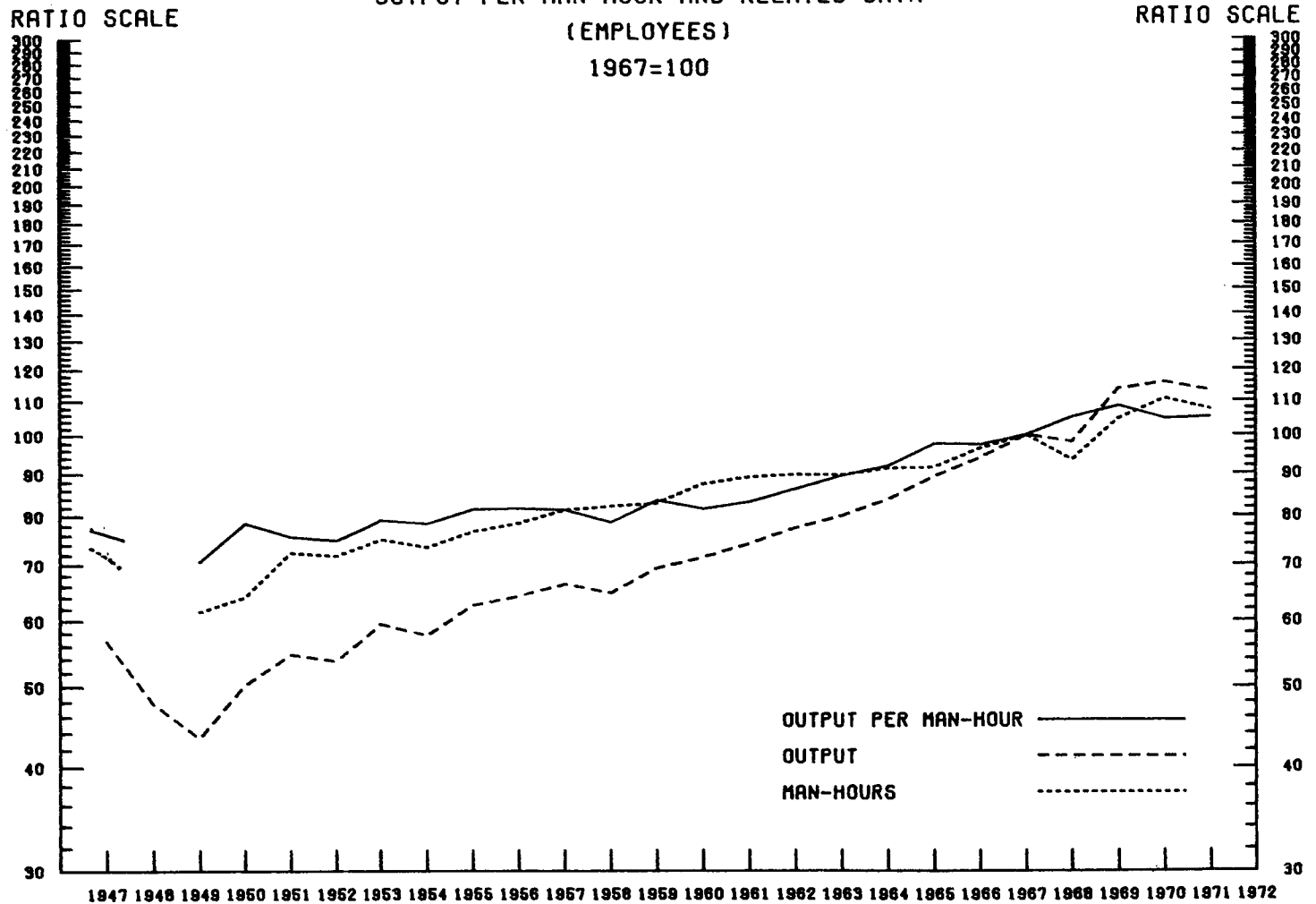
CHART 41
 FOOTWEAR SIC 314, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 42
 GLASS CONTAINERS SIC 3221, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100

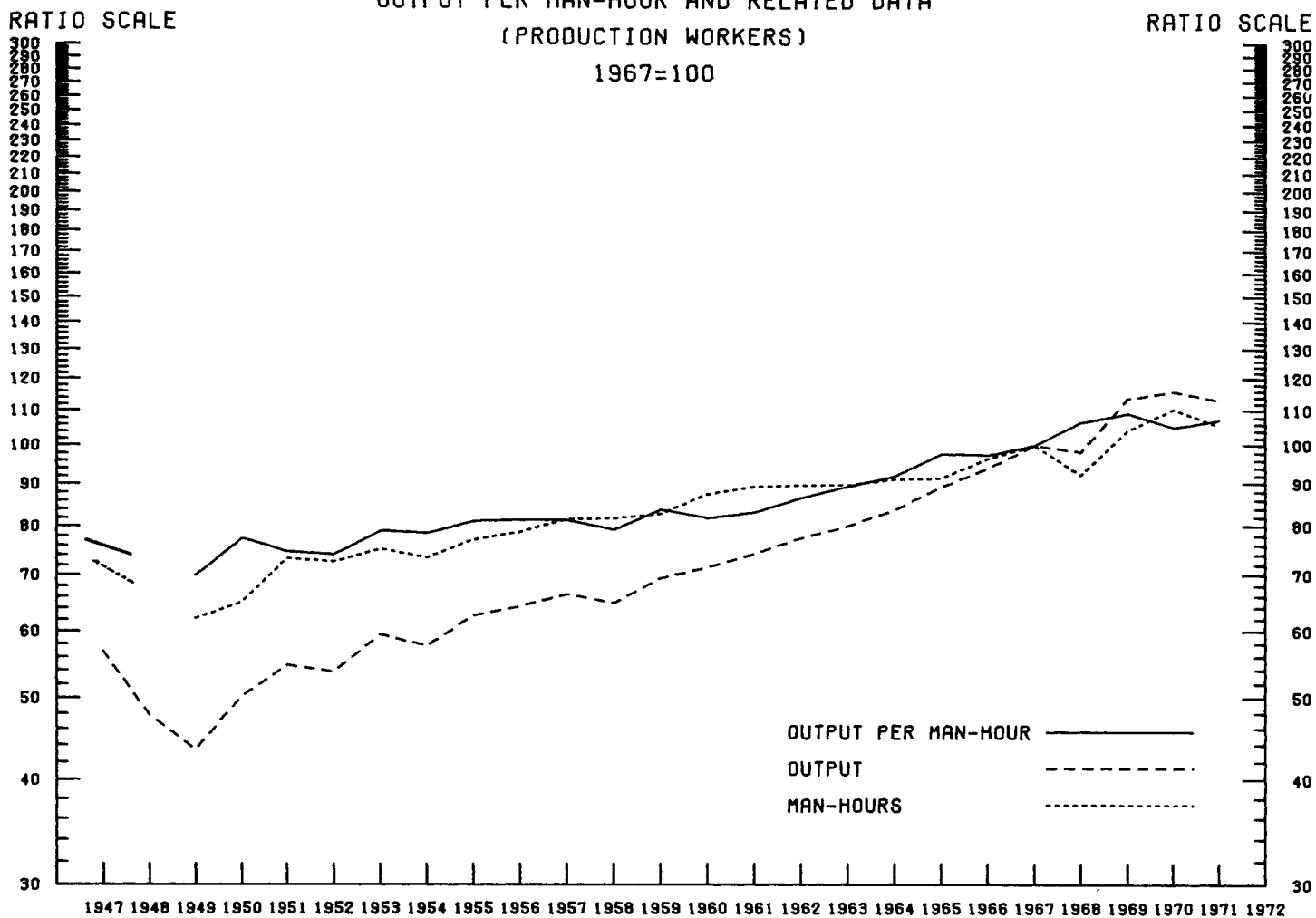
126



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 43
 GLASS CONTAINERS SIC 3221, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

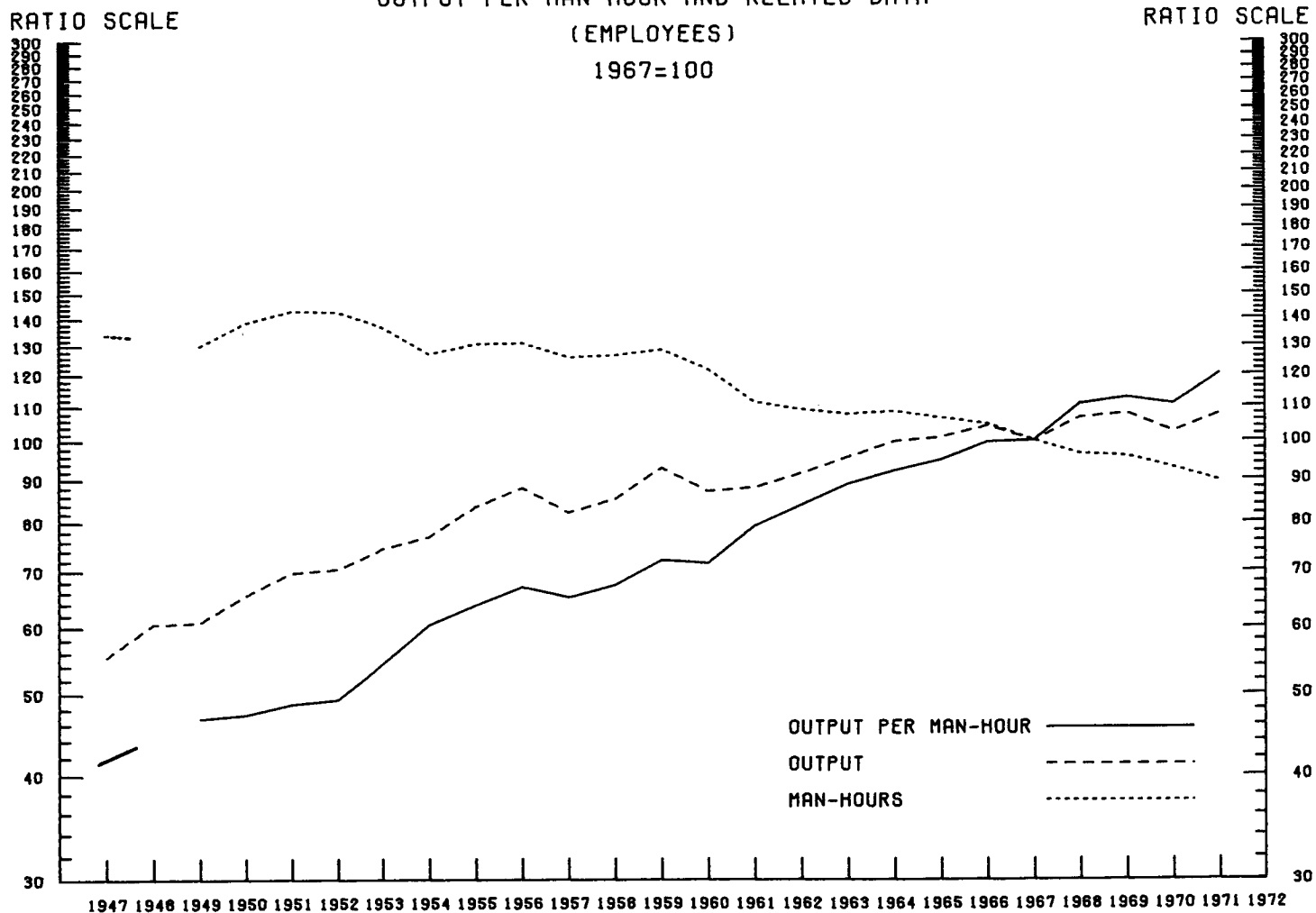
127



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

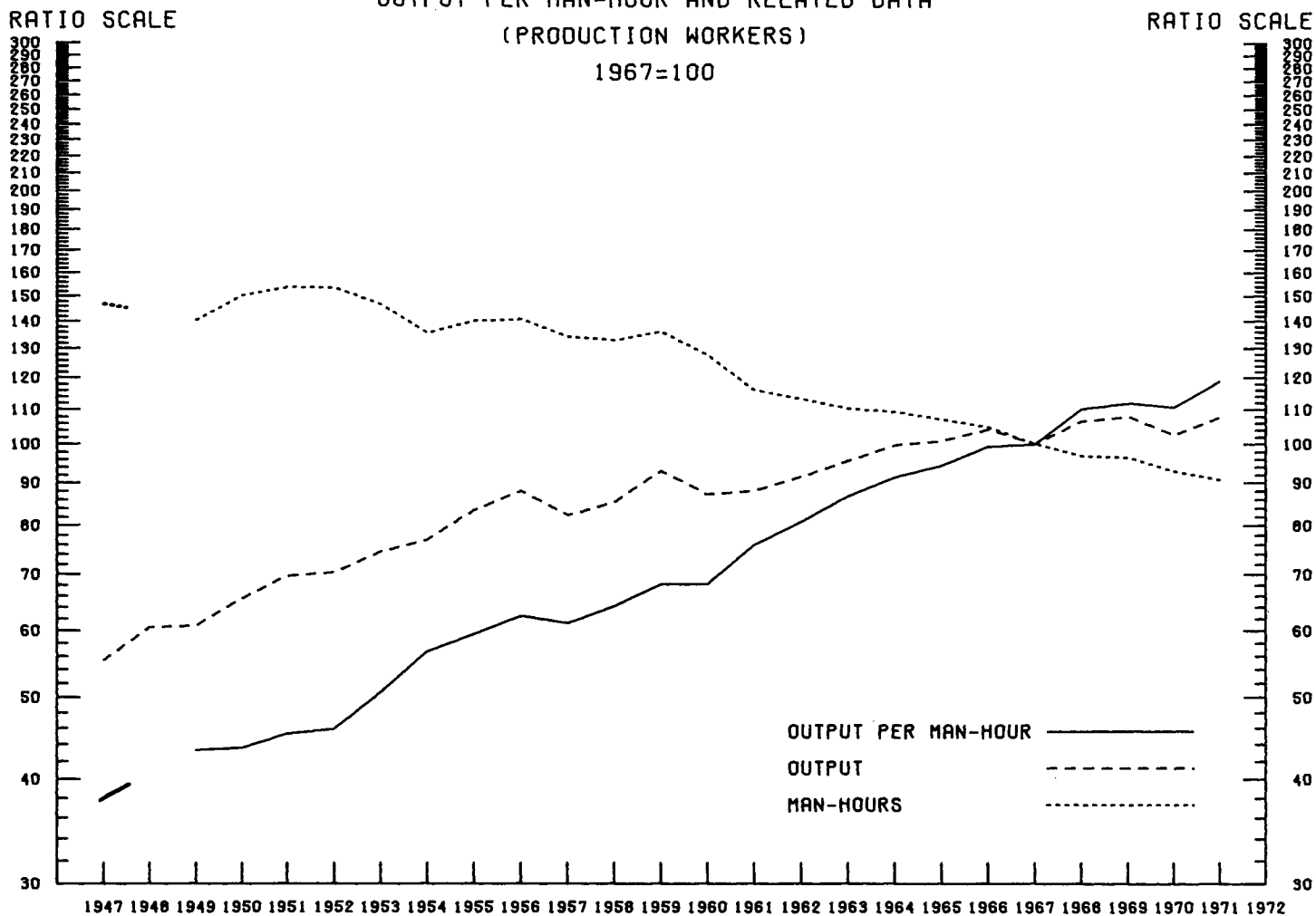
CHART 44
 HYDRAULIC CEMENT SIC 324, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100

128



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

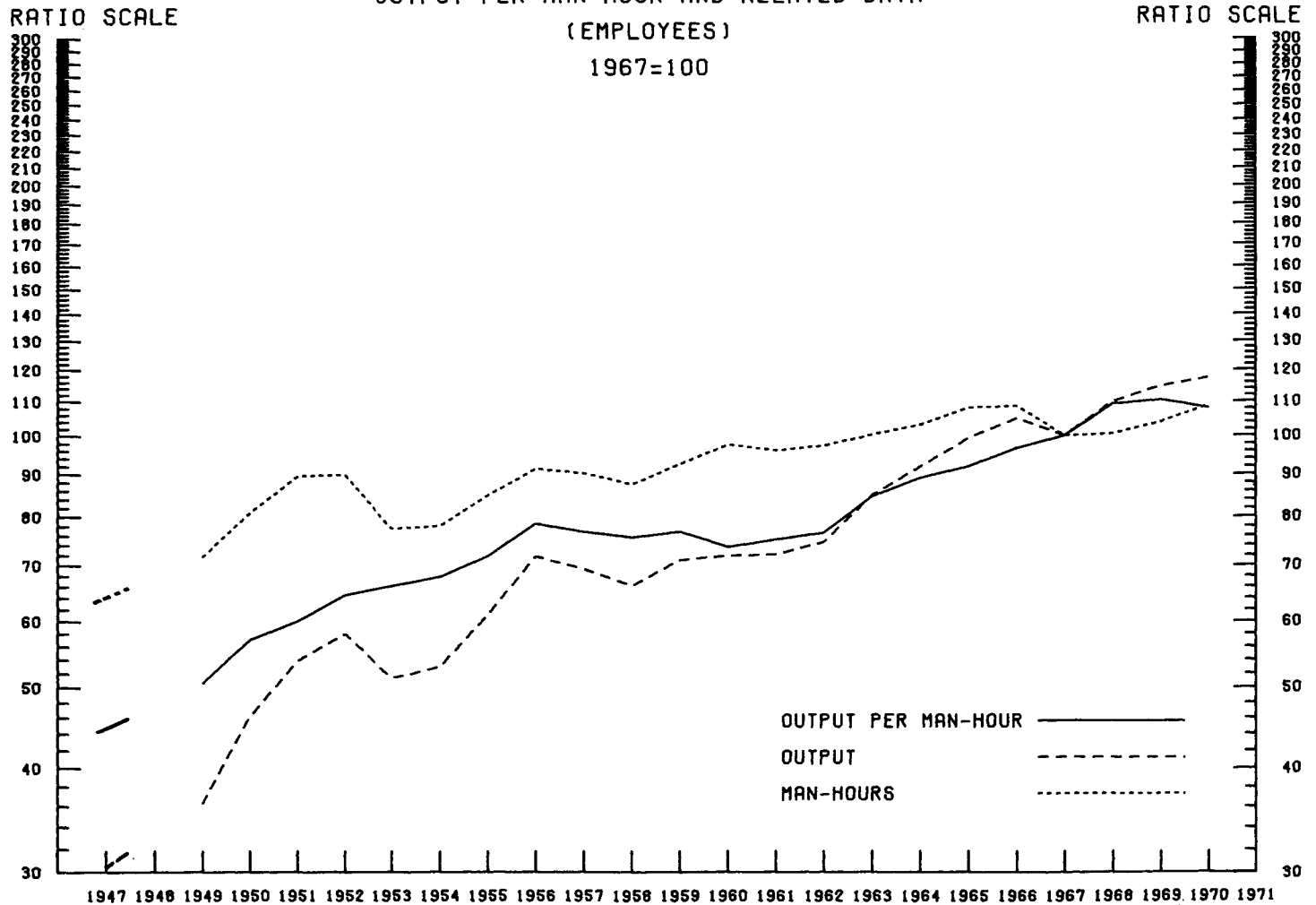
CHART 45
 HYDRAULIC CEMENT SIC 324, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 46
 CONCRETE PRODUCTS SIC 3271, 3272, 1947-70
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100

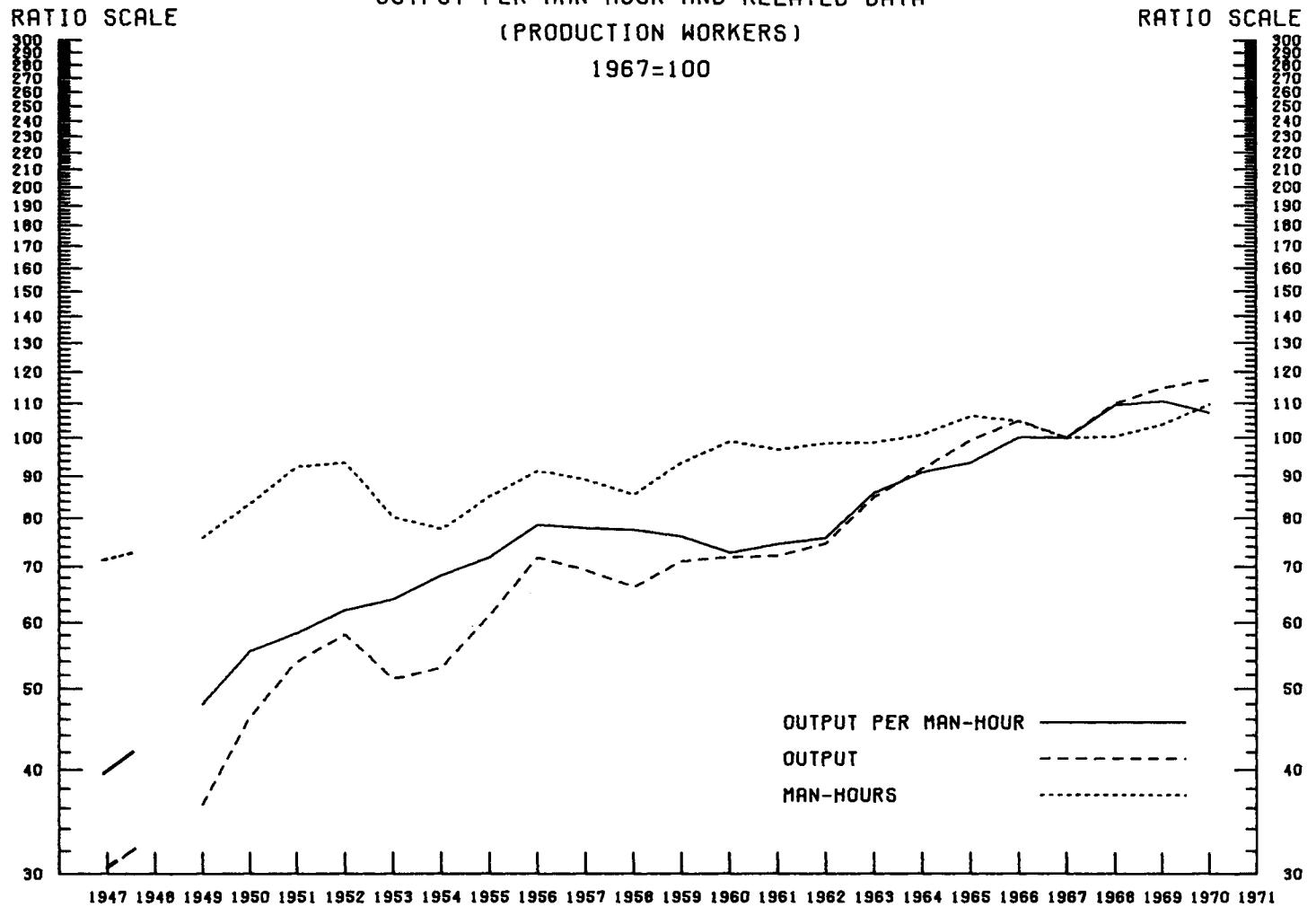
130



NOTE-WHERE SERIES ARE NOT CONTINUOUS. DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

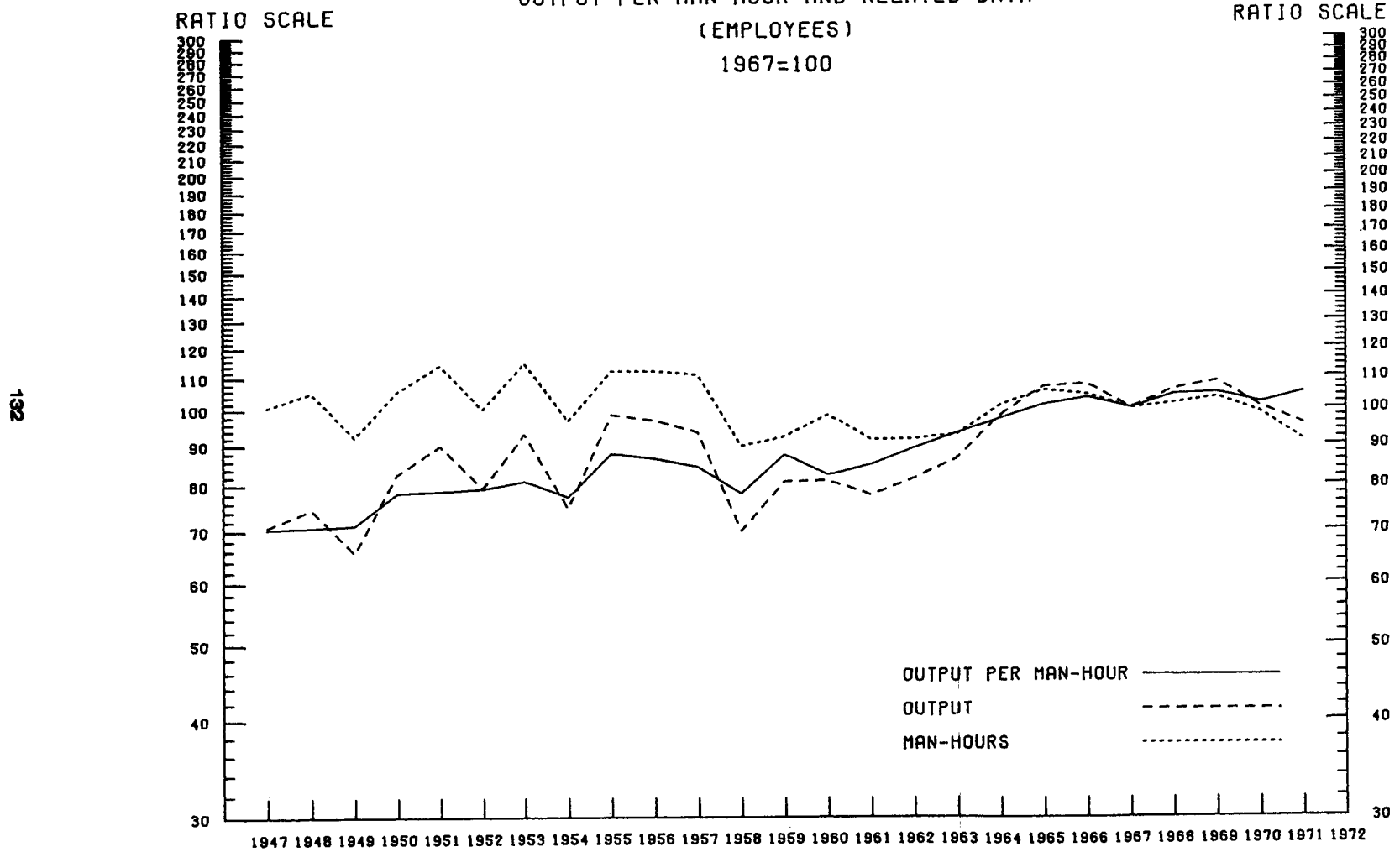
CHART 47
 CONCRETE PRODUCTS SIC 3271, 3272, 1947-70
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

131



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

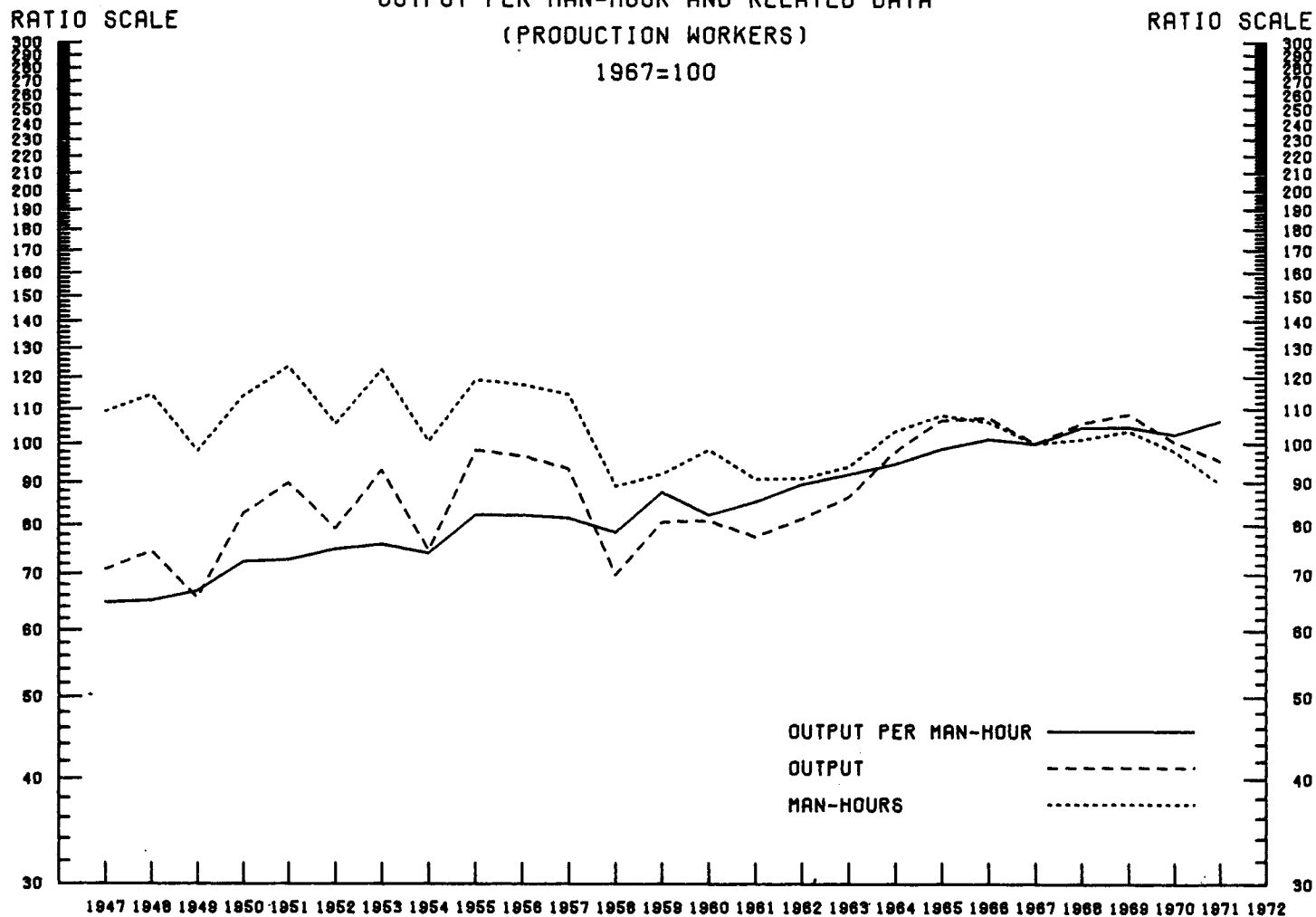
CHART 48
 STEEL SIC 331, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



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

CHART 49
 STEEL SIC 331, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

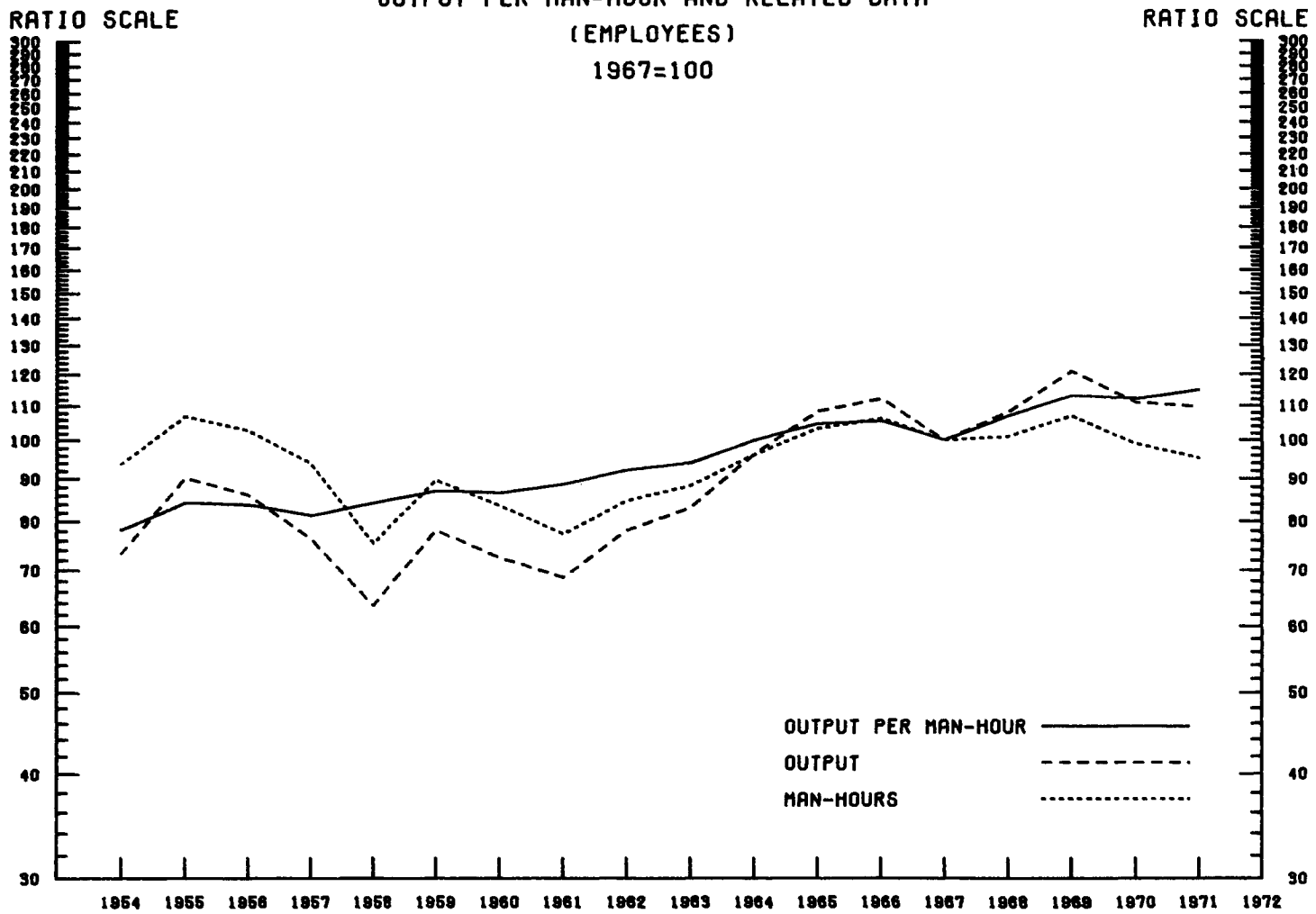
133



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

CHART 50
 GRAY IRON FOUNDRIES SIC 3321, 1954-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100

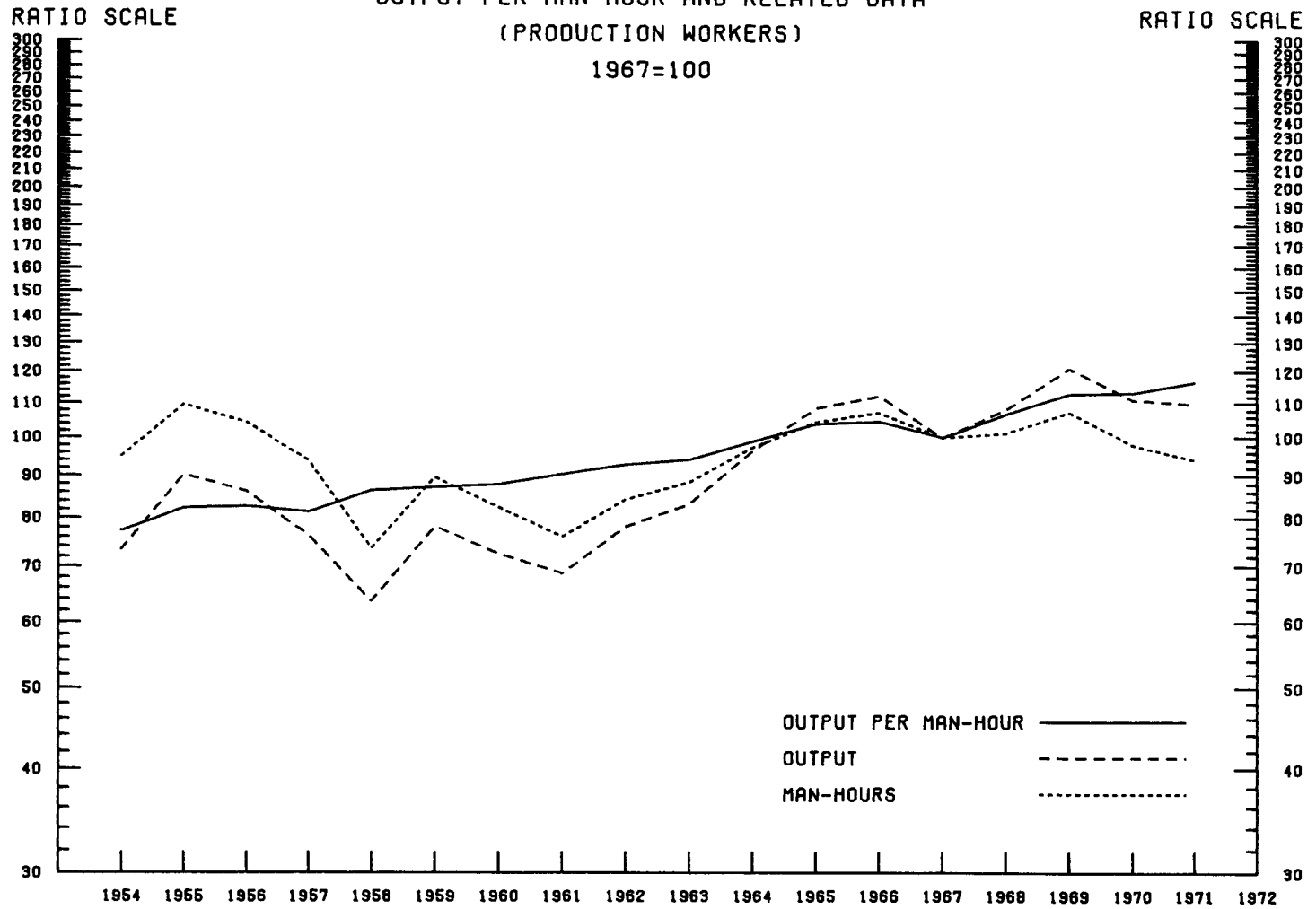
194



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

CHART 51
 GRAY IRON FOUNDRIES SIC 3321, 1954-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

135



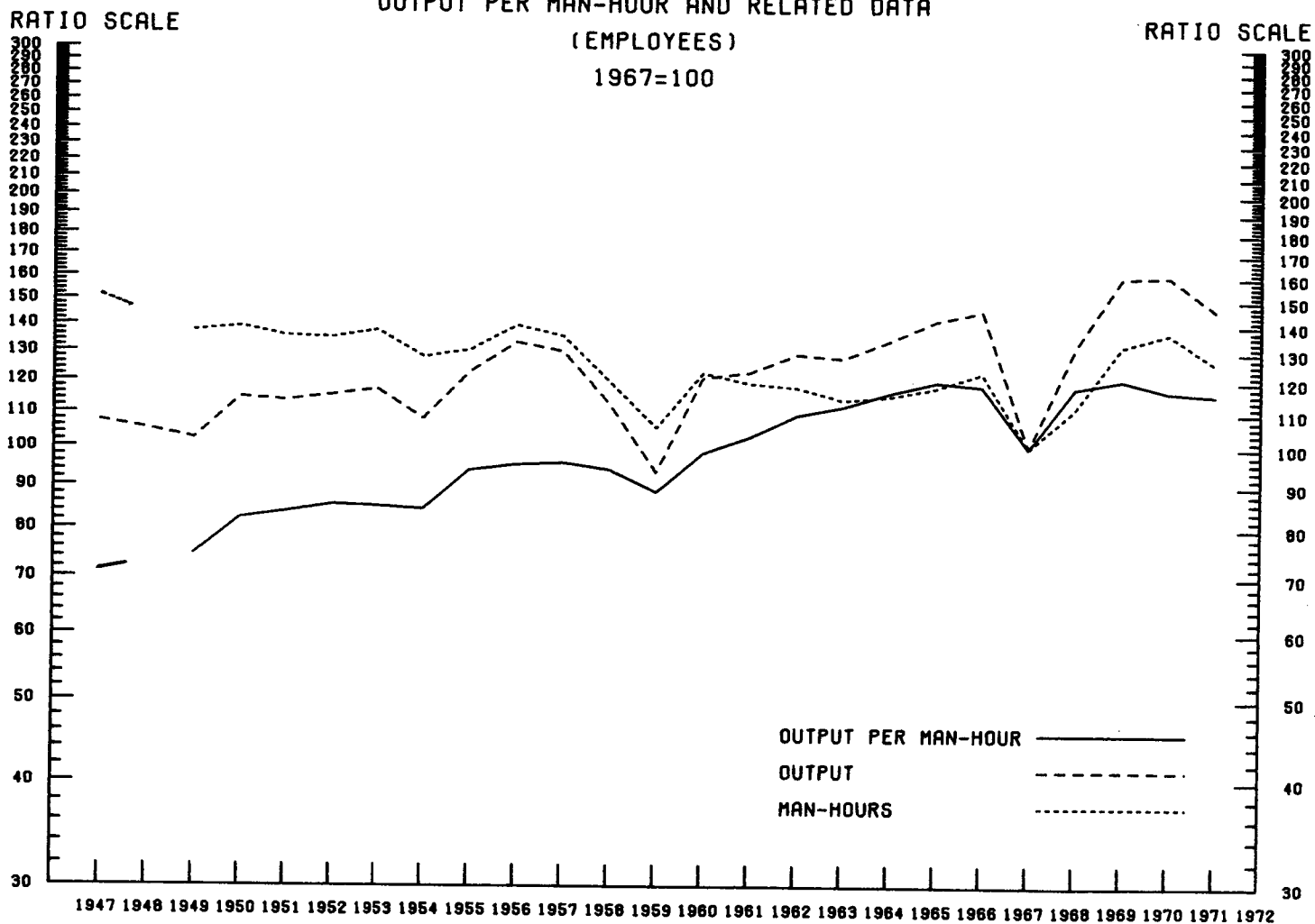
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 52
PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333, 1947-71

OUTPUT PER MAN-HOUR AND RELATED DATA

(EMPLOYEES)

1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.

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

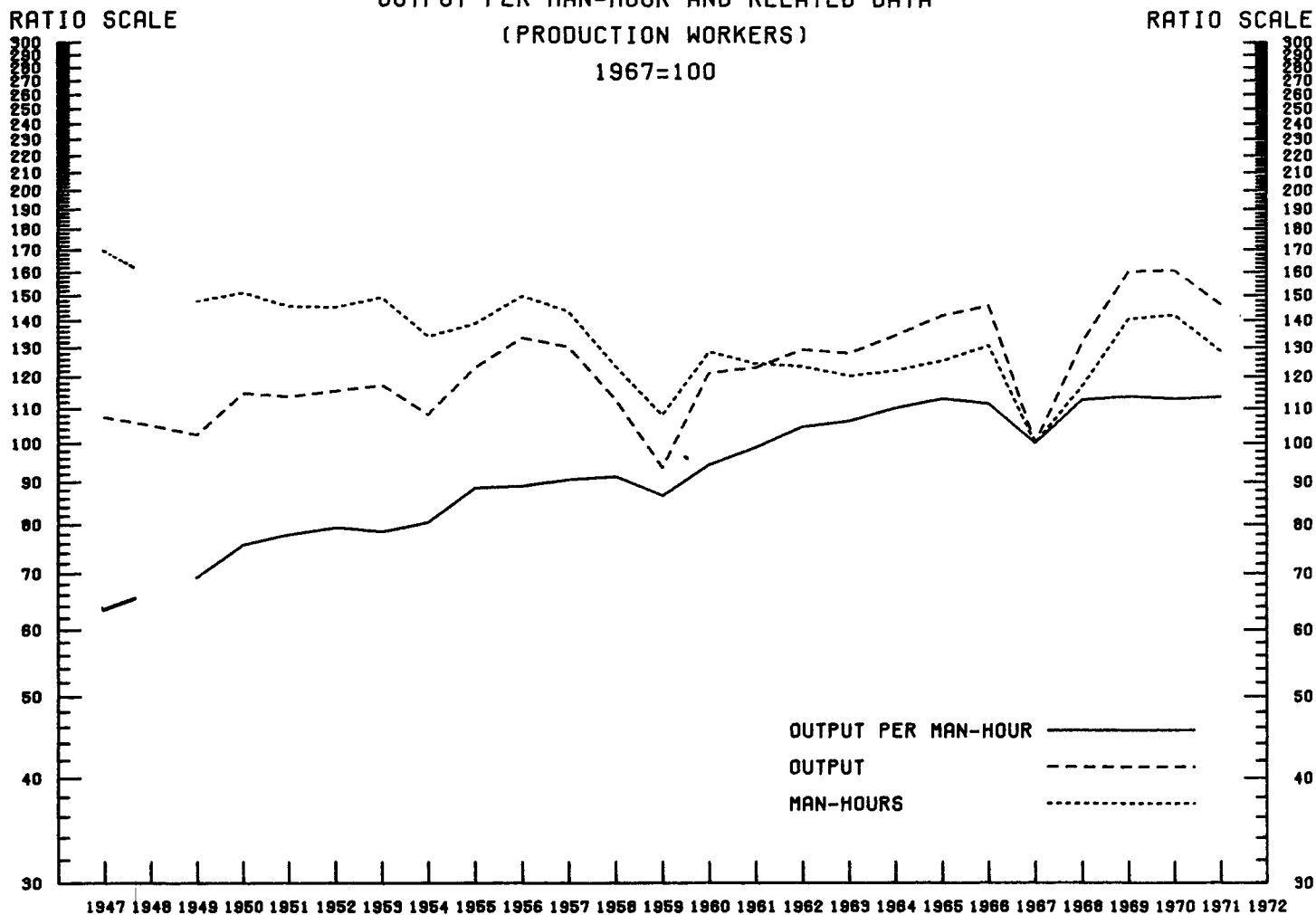
CHART 53
 PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333, 1947-70

OUTPUT PER MAN-HOUR AND RELATED DATA

(PRODUCTION WORKERS)

1967=100

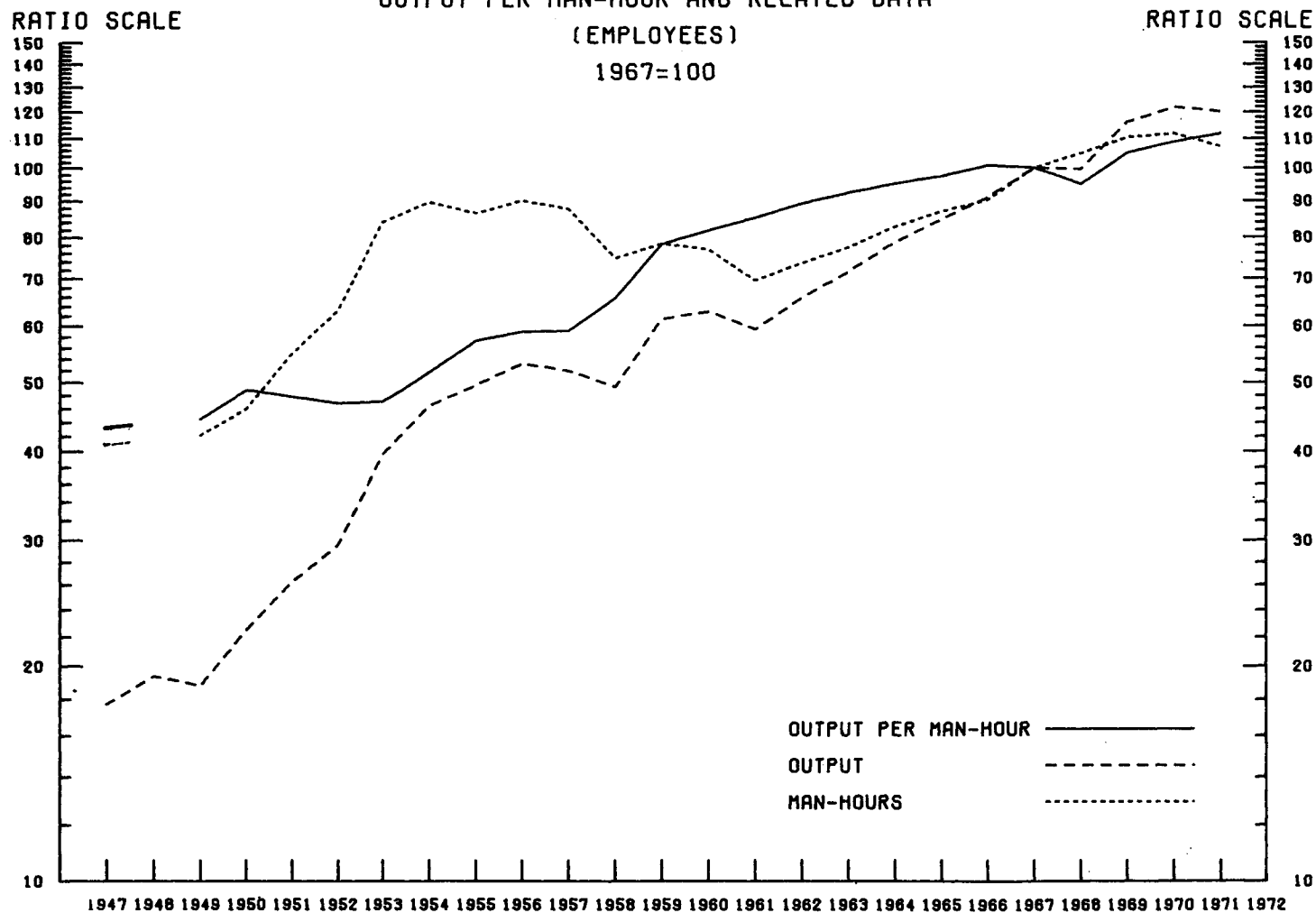
137



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.

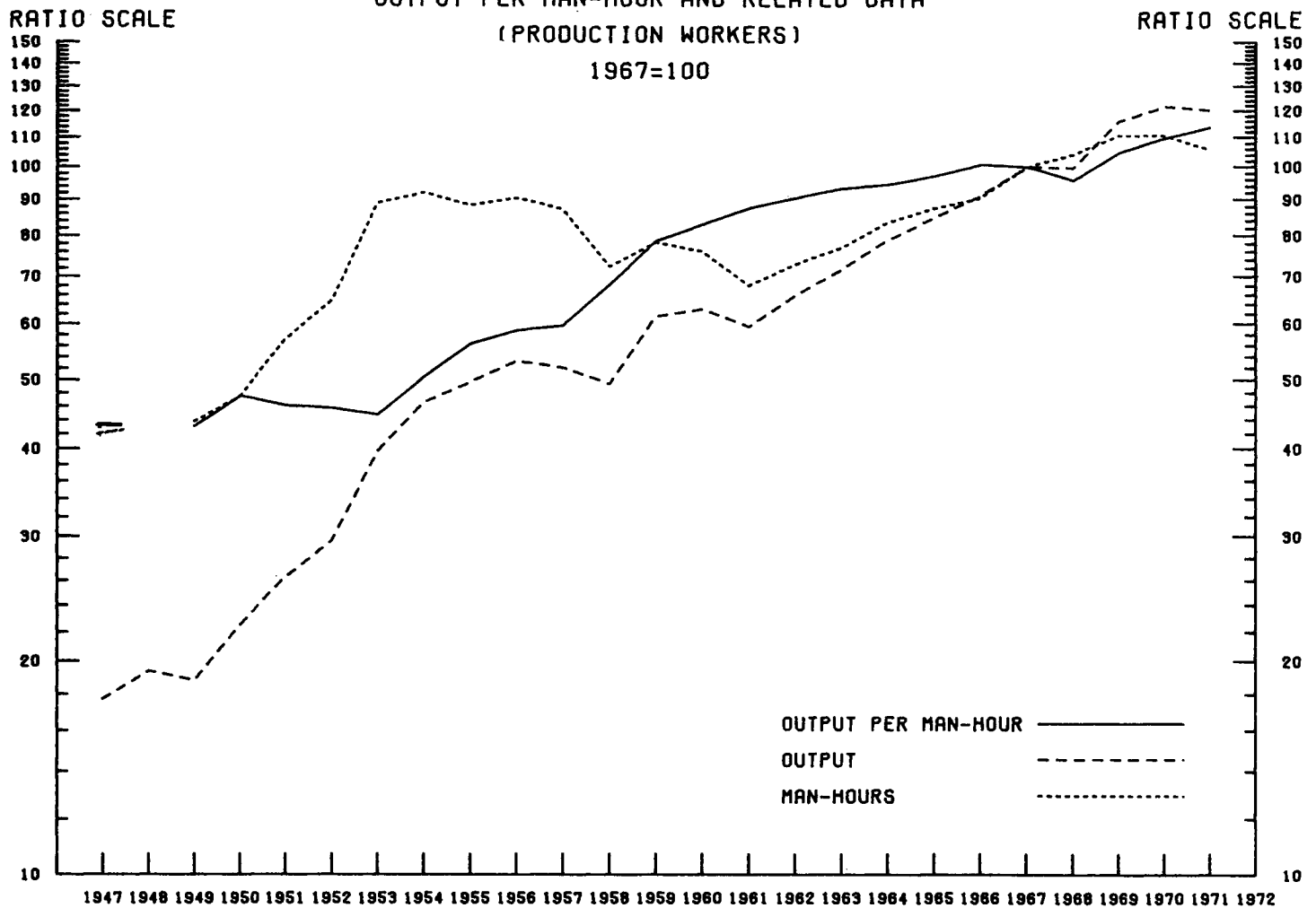
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 54
 PRIMARY ALUMINUM SIC 3334, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS. DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 55
 PRIMARY ALUMINUM SIC 3334, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

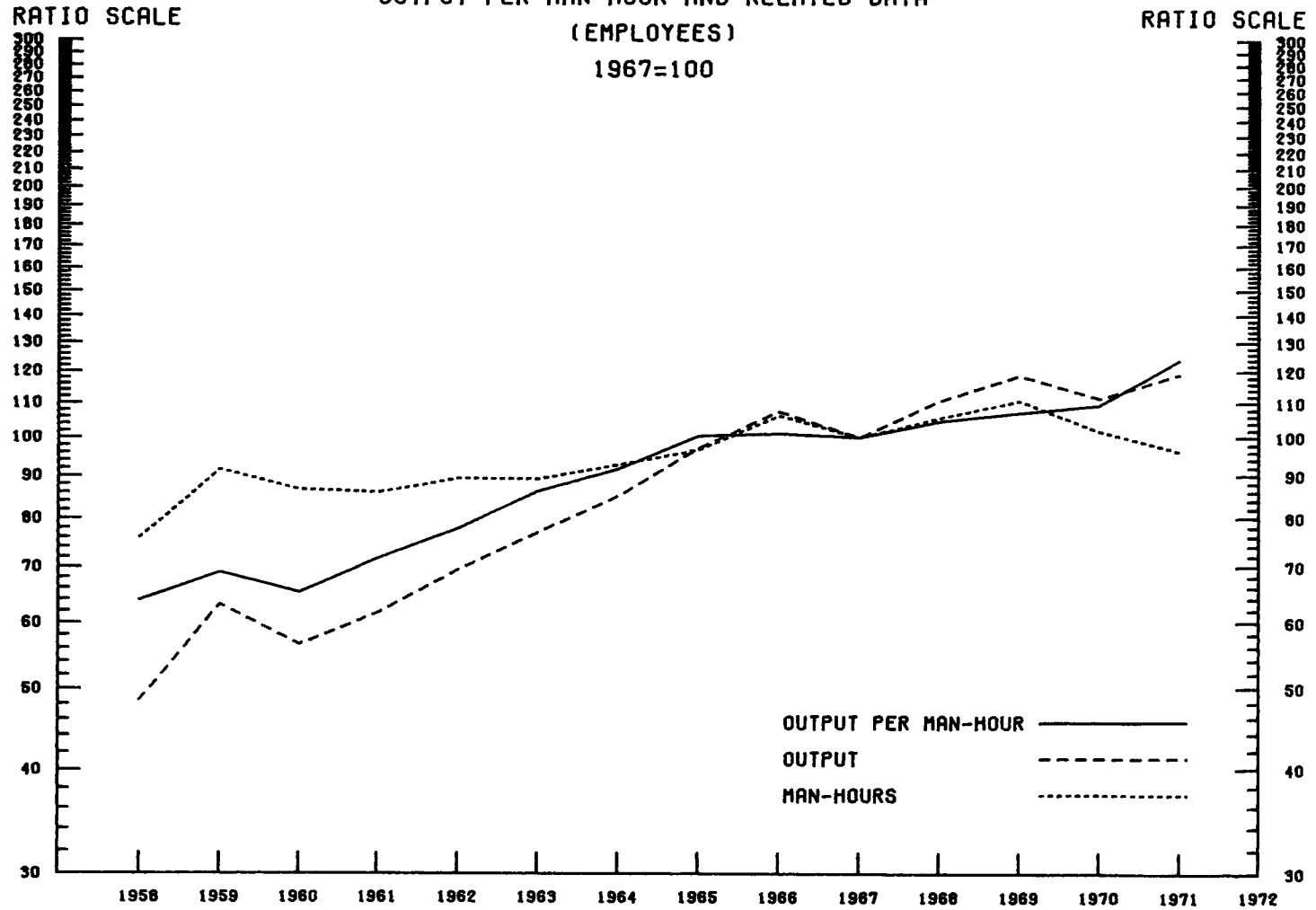
CHART 56
 ALUMINUM ROLLING AND DRAWING SIC 3352, 1958-71

OUTPUT PER MAN-HOUR AND RELATED DATA

(EMPLOYEES)

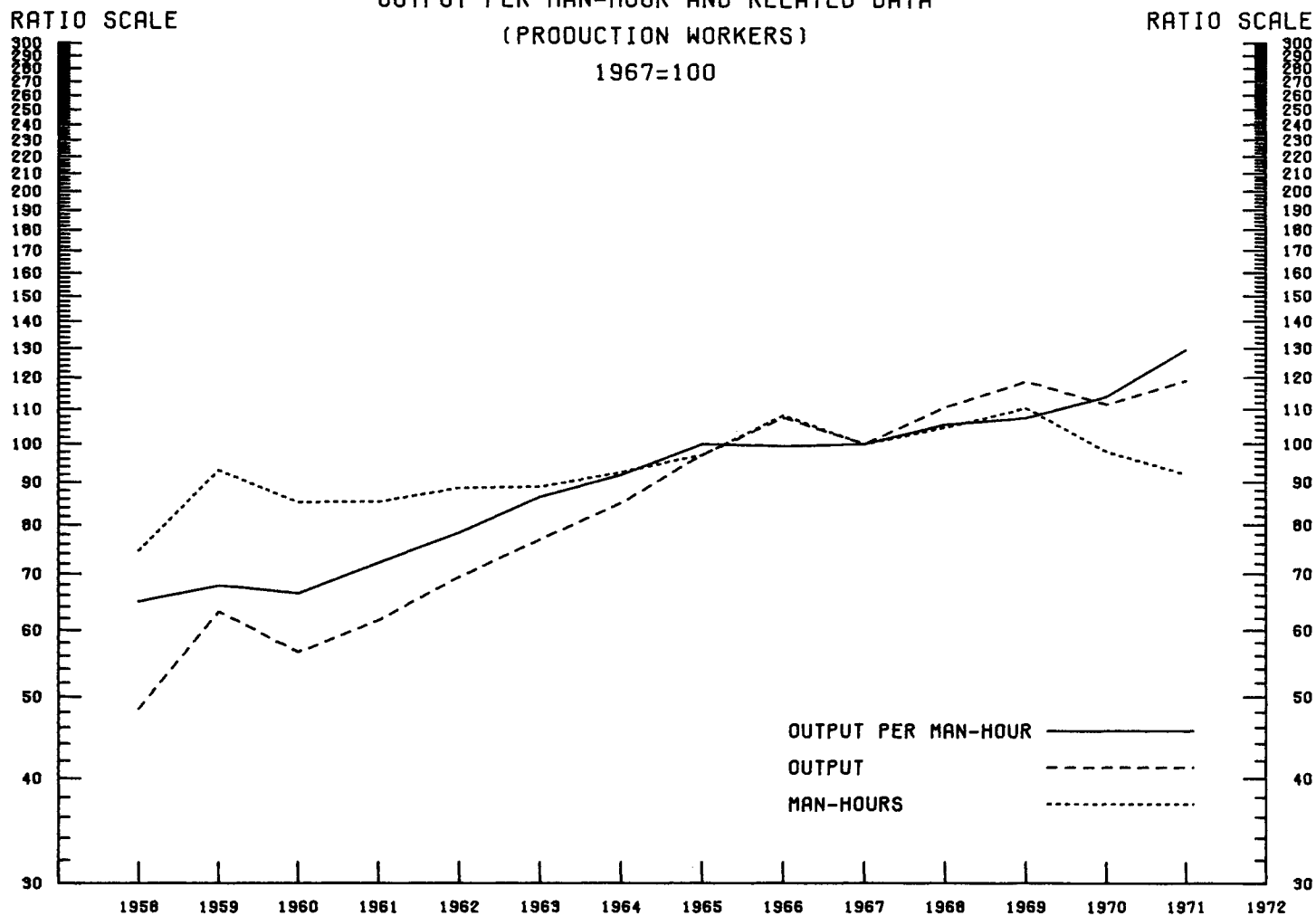
1967=100

140



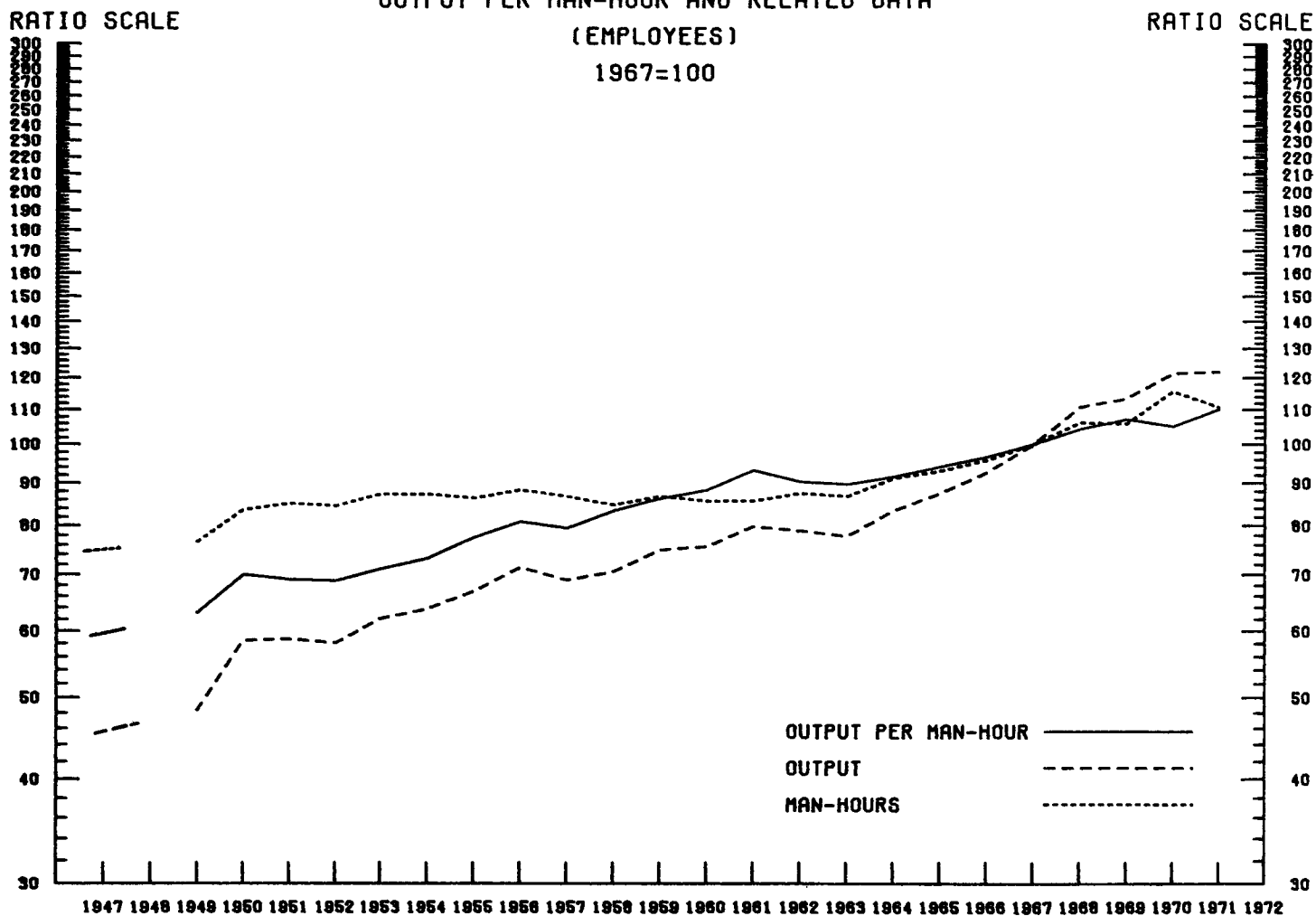
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 57
 ALUMINUM ROLLING AND DRAWING SIC 3352, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



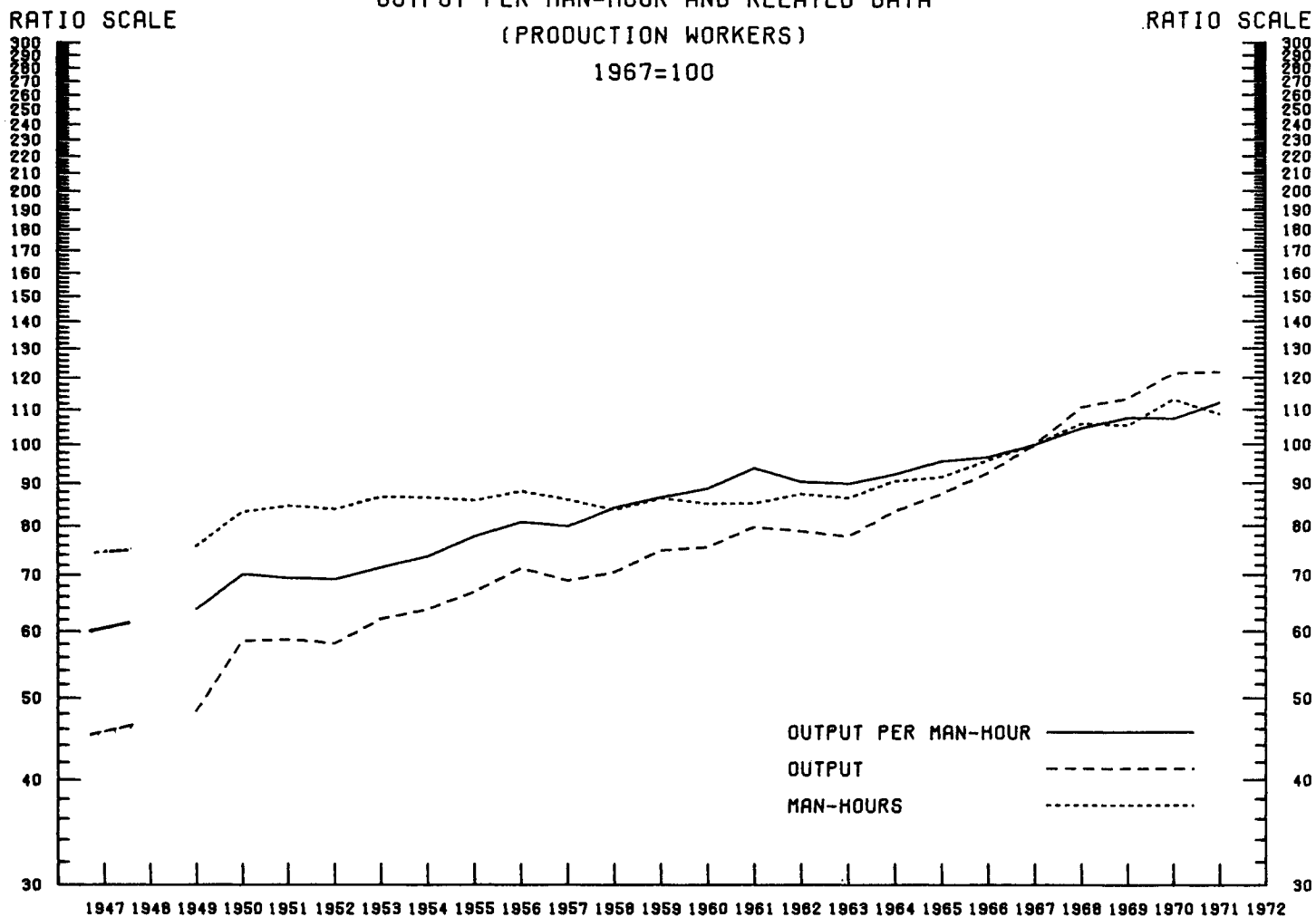
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 58
 METAL CANS SIC 341, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 59
 METAL CANS SIC 341, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



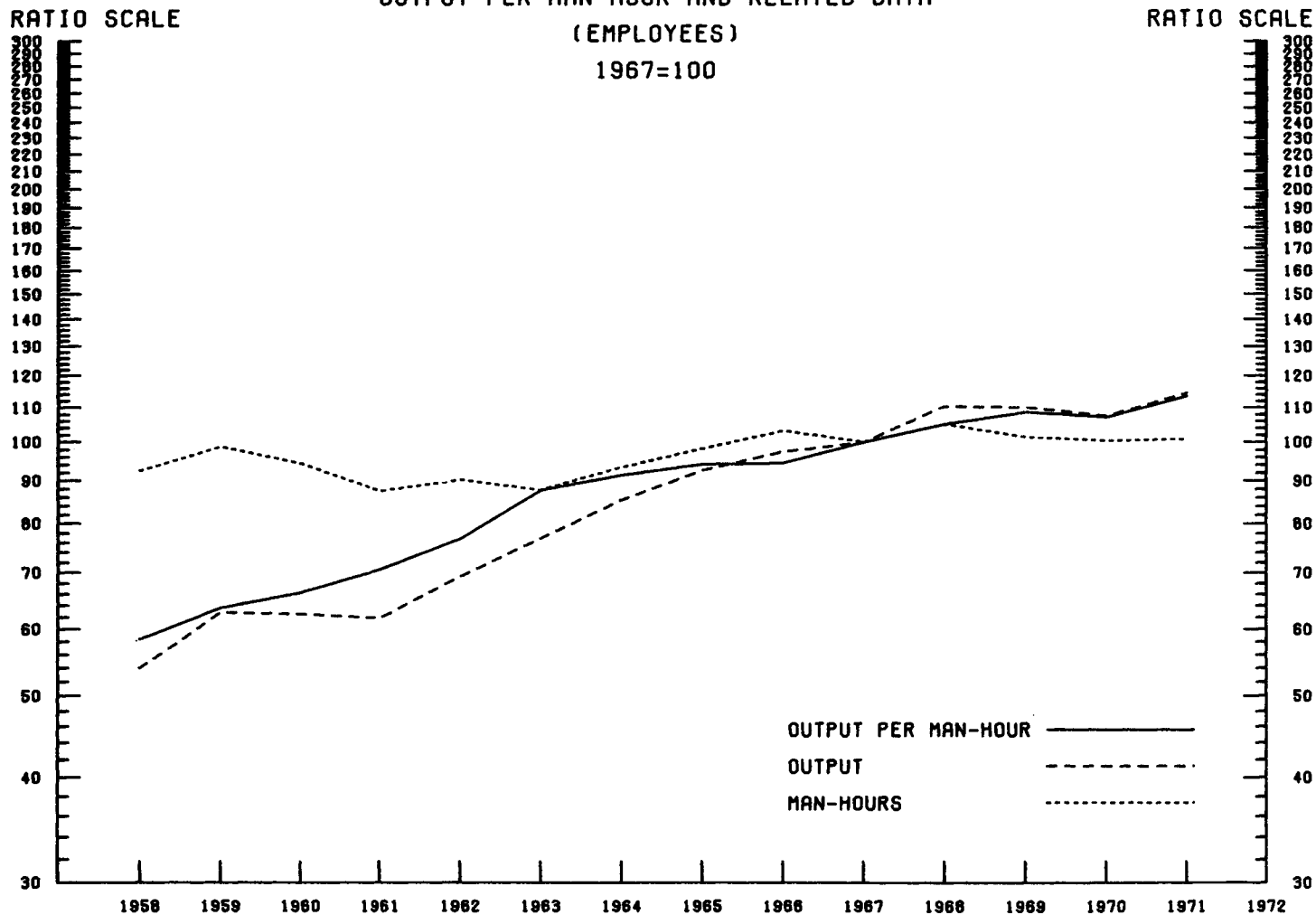
NOTE-WHERE SERIES ARE NOT CONTINUOUS, DATA ARE NOT AVAILABLE.
 SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 60
 MAJOR HOUSEHOLD APPLIANCES SIC 3631, 3632, 3633, 3639, 1958-71

OUTPUT PER MAN-HOUR AND RELATED DATA

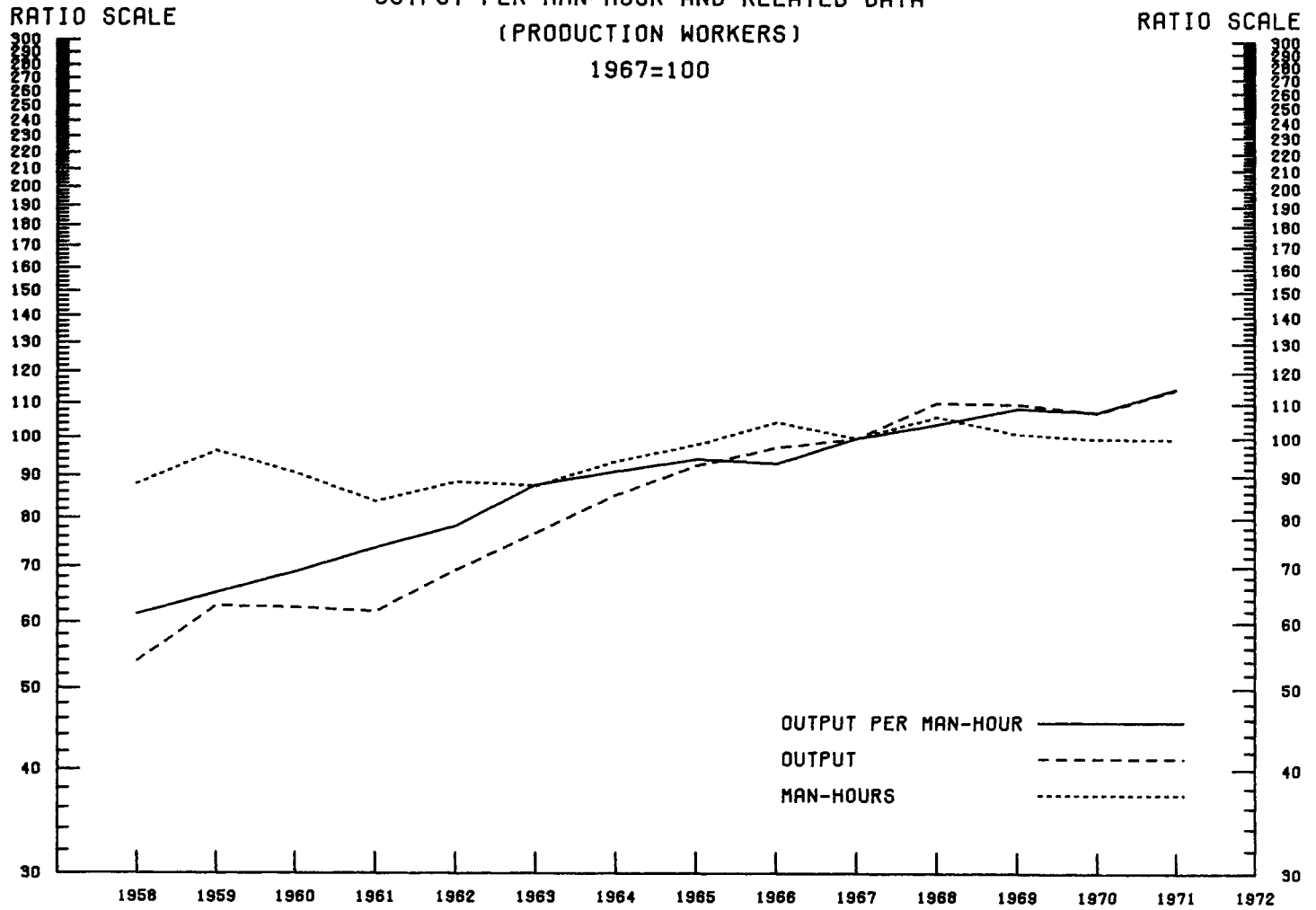
(EMPLOYEES)

1967=100



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

CHART 61
 MAJOR HOUSEHOLD APPLIANCES SIC 3631, 3632, 3633, 3639, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



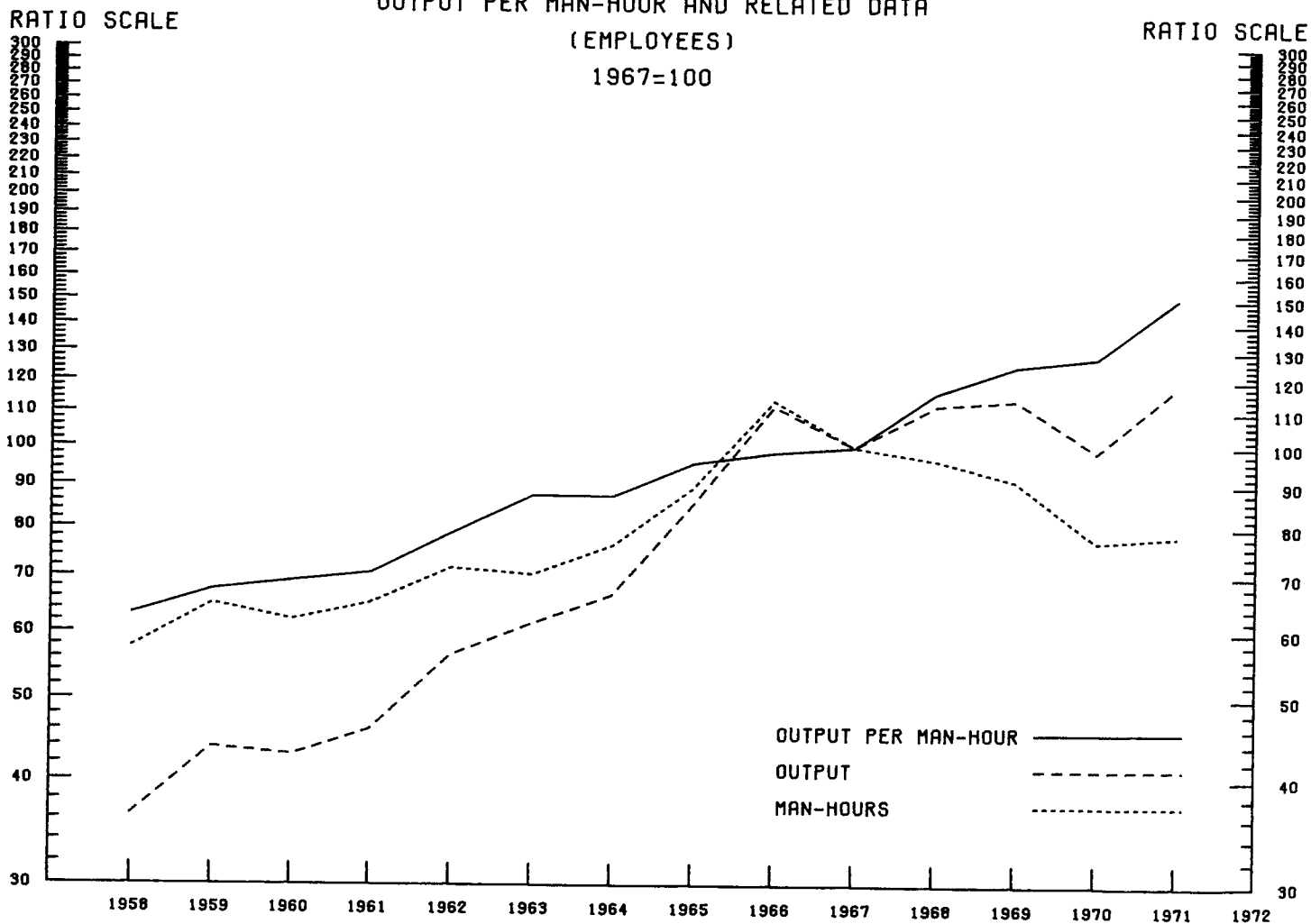
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 62 RADIO AND TELEVISION RECEIVING SETS SIC 3651, 1958-71

OUTPUT PER MAN-HOUR AND RELATED DATA

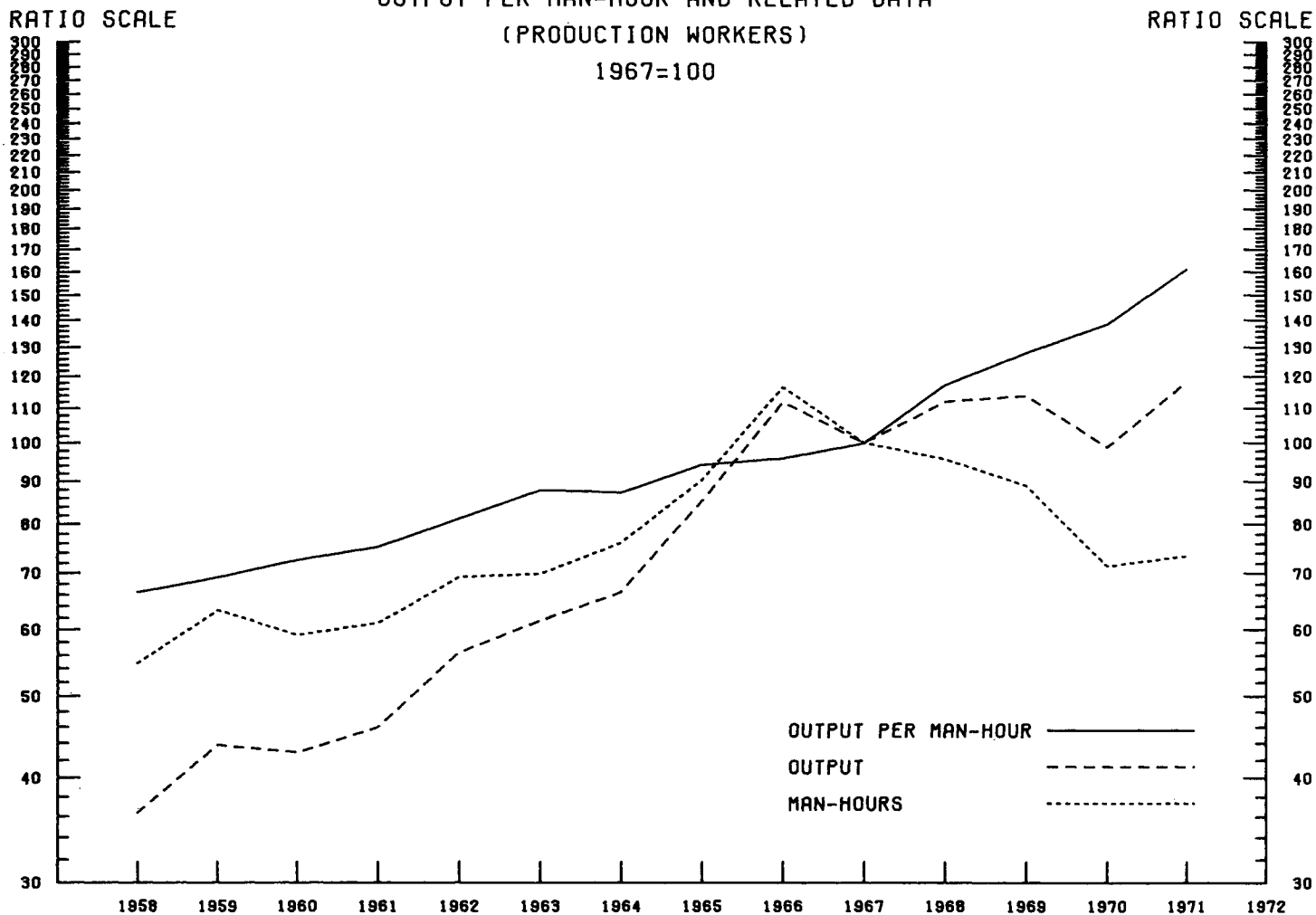
(EMPLOYEES)

1967=100



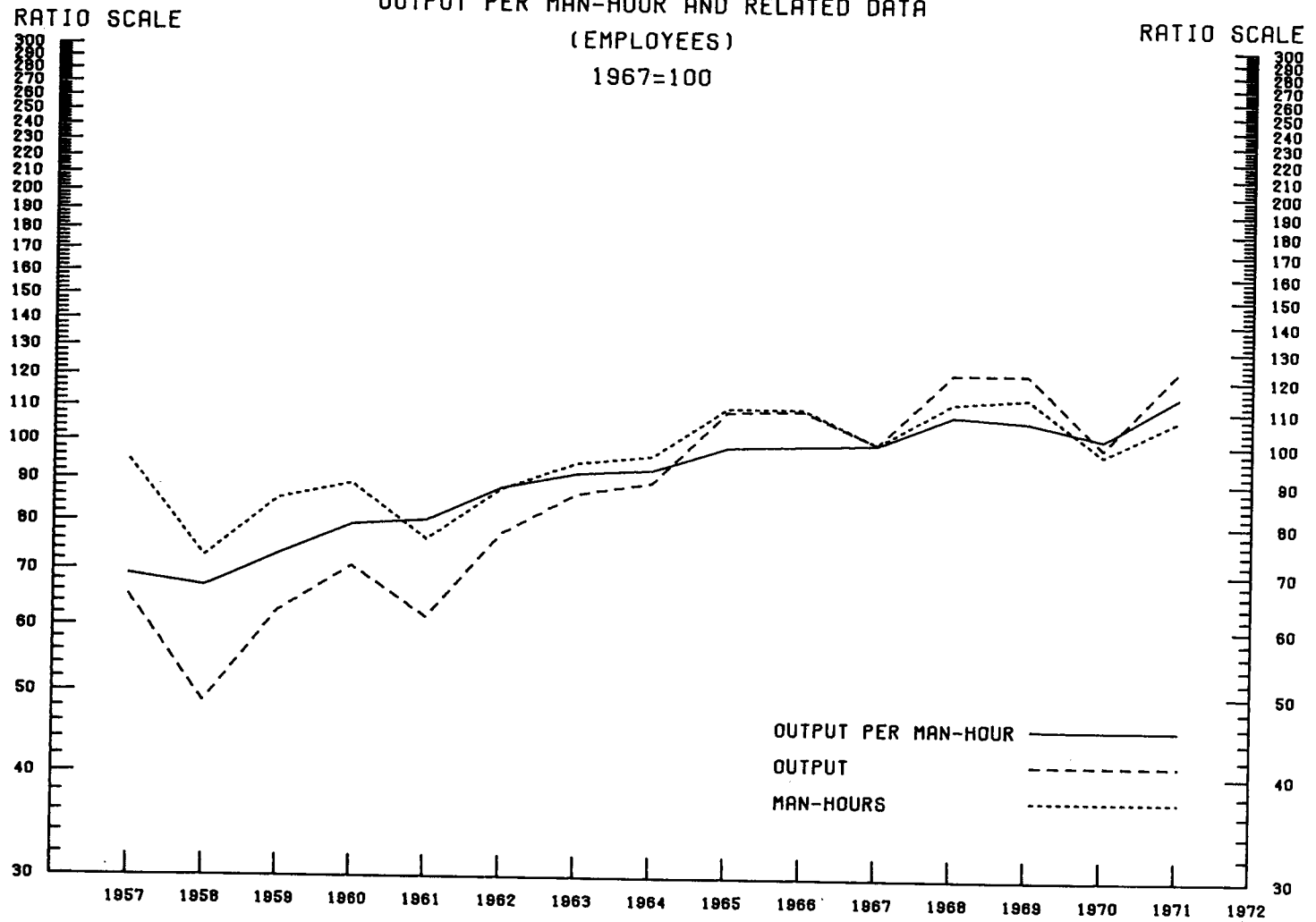
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 63
 RADIO AND TELEVISION RECEIVING SETS SIC 3651, 1958-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



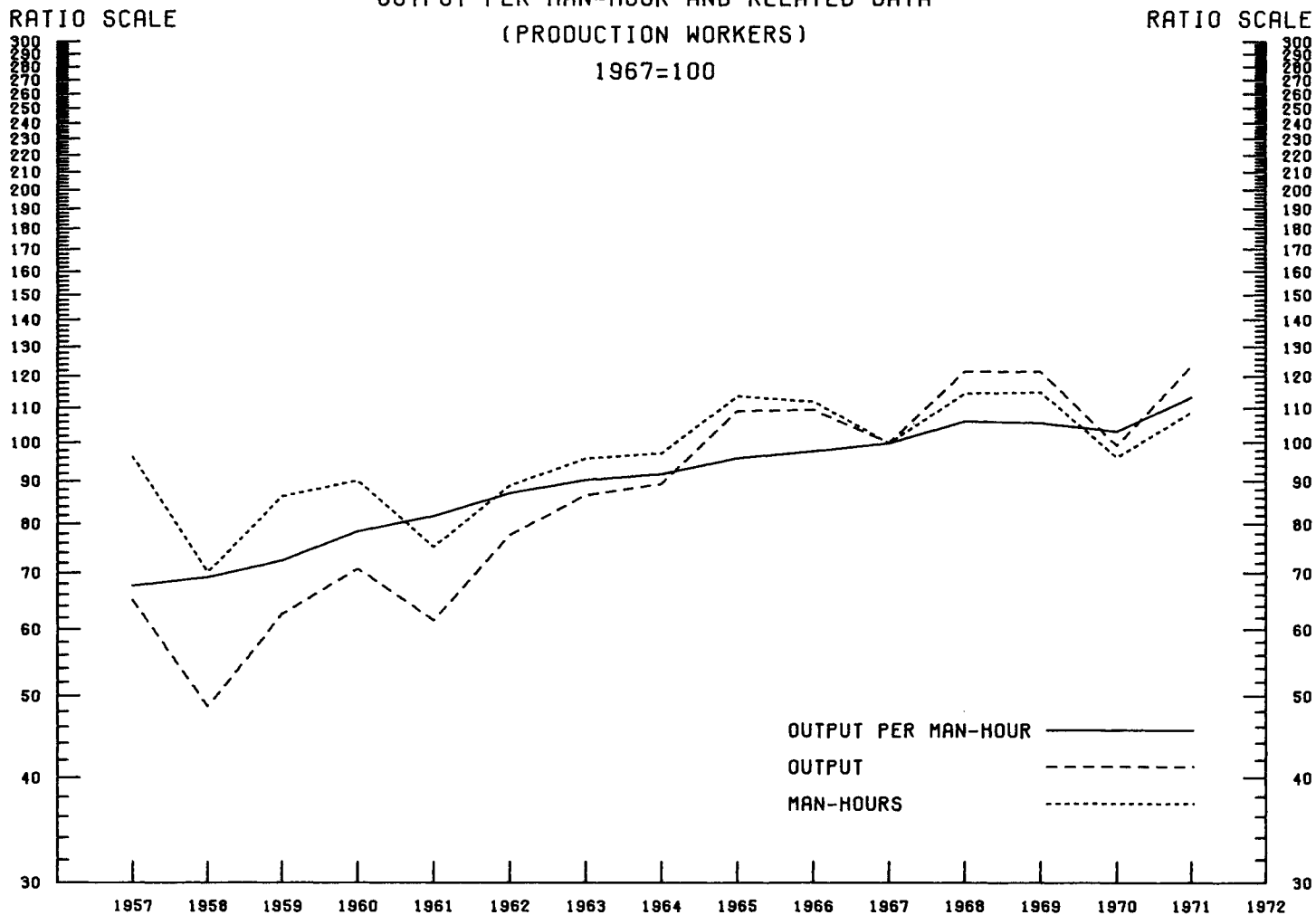
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 64
 MOTOR VEHICLES AND EQUIPMENT SIC 371, 1957-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



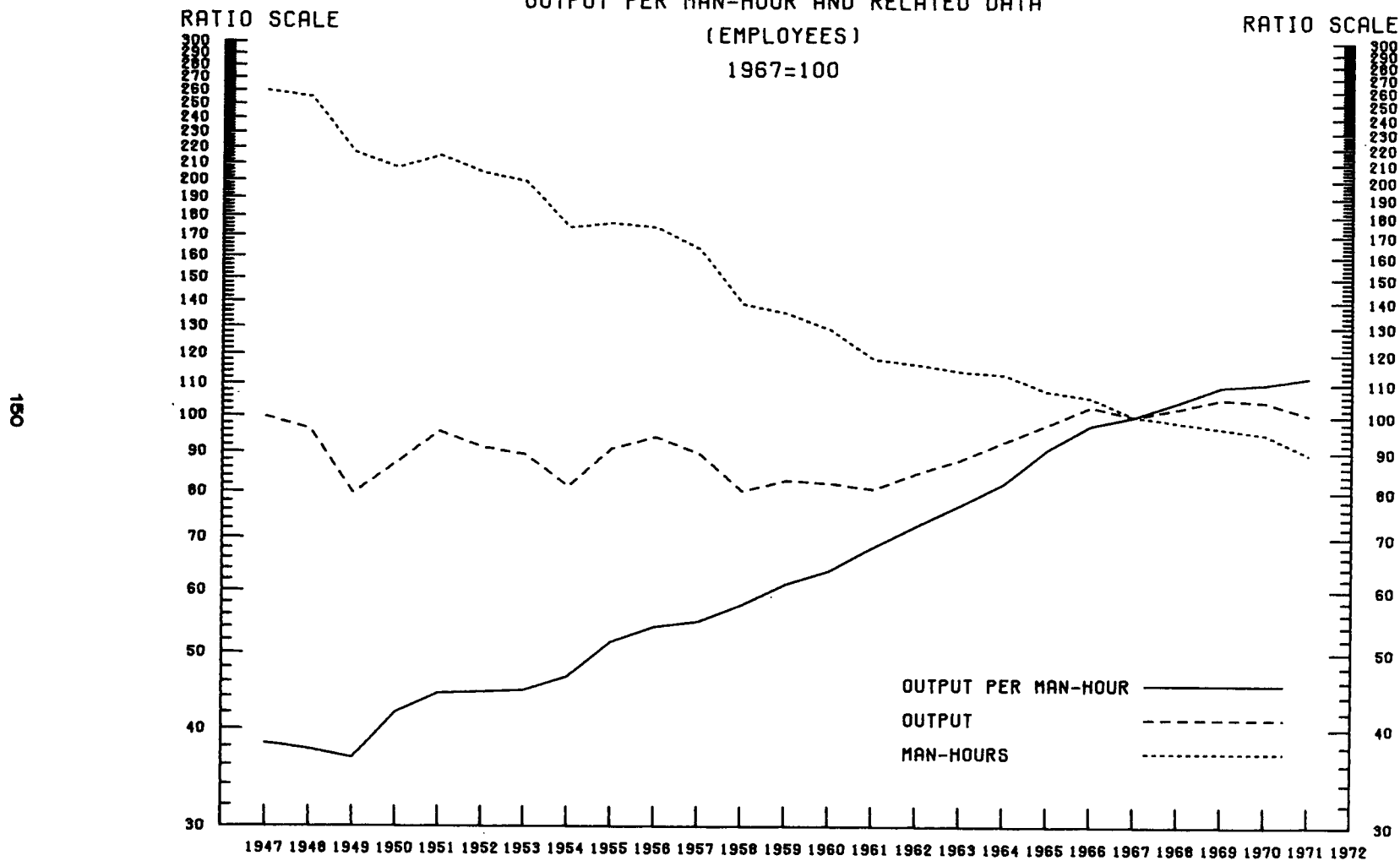
SOURCE-U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS.

CHART 65
 MOTOR VEHICLES AND EQUIPMENT SIC 371, 1957-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100



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

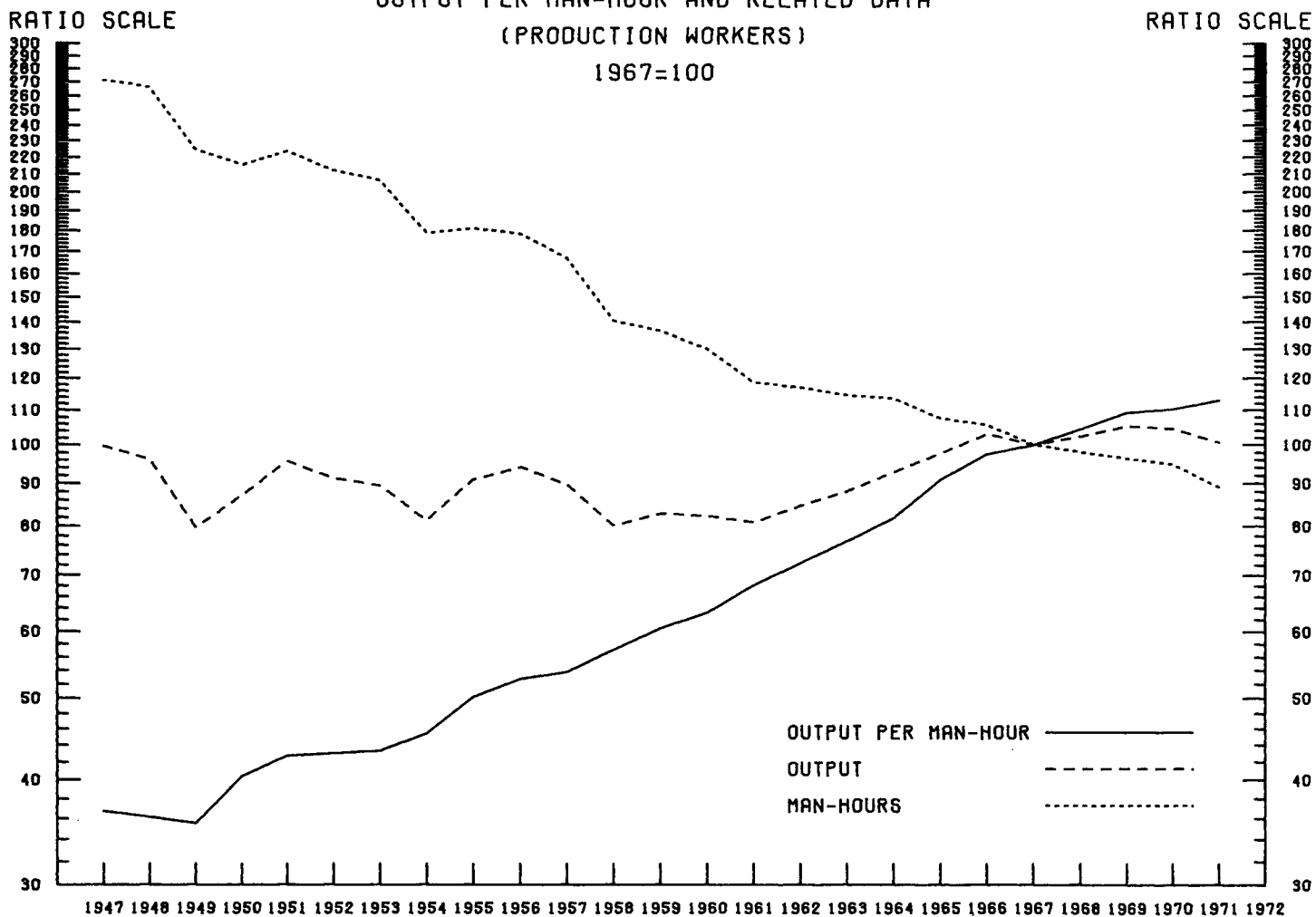
CHART 66
 RAILROADS, REVENUE TRAFFIC SIC 401, CLASS I, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



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

CHART 67
RAILROADS, REVENUE TRAFFIC SIC 401, CLASS I, 1947-71

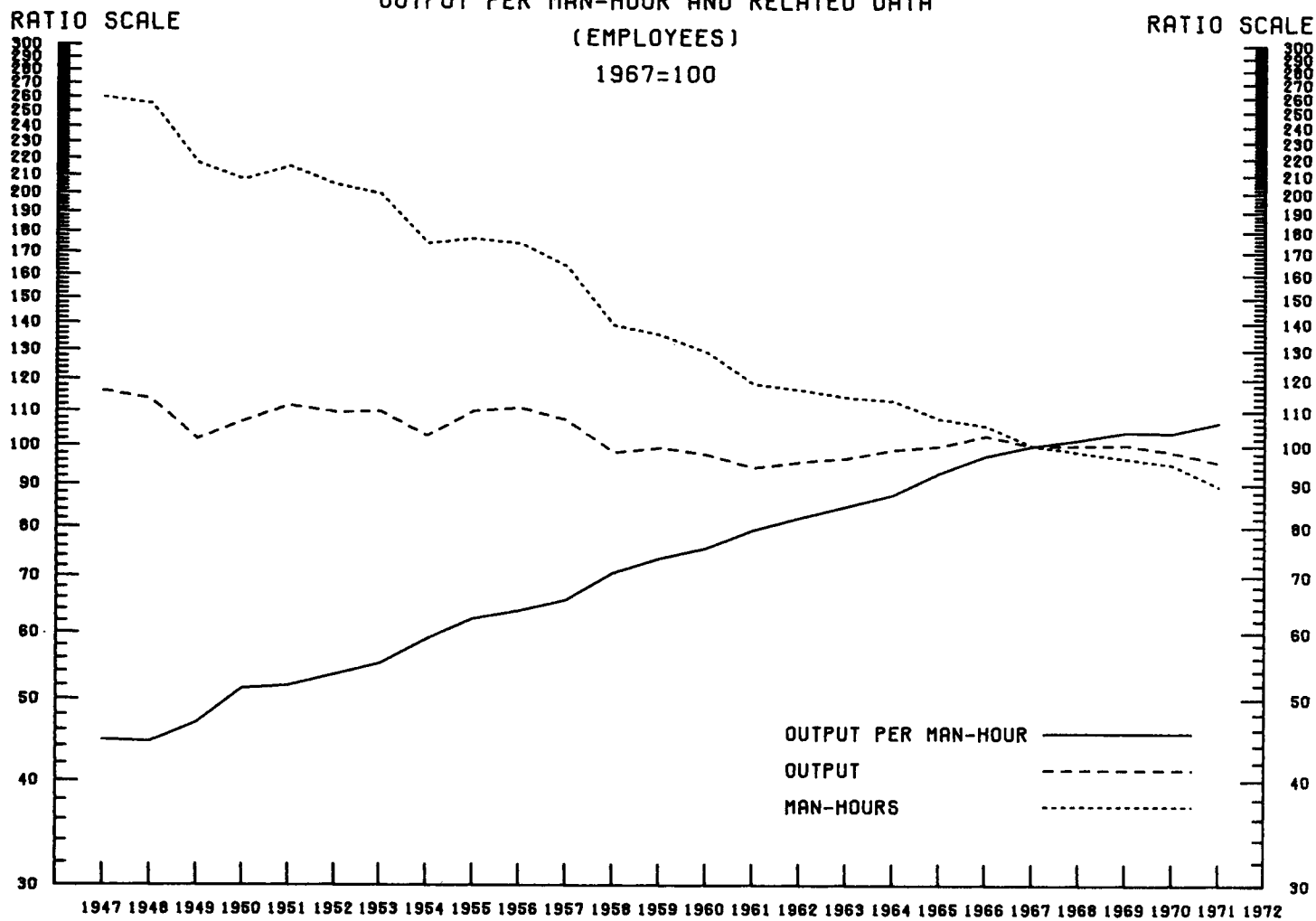
OUTPUT PER MAN-HOUR AND RELATED DATA
(PRODUCTION WORKERS)
1967=100



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

CHART 68
 RAILROADS, CAR MILES SIC 401, CLASS I, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100

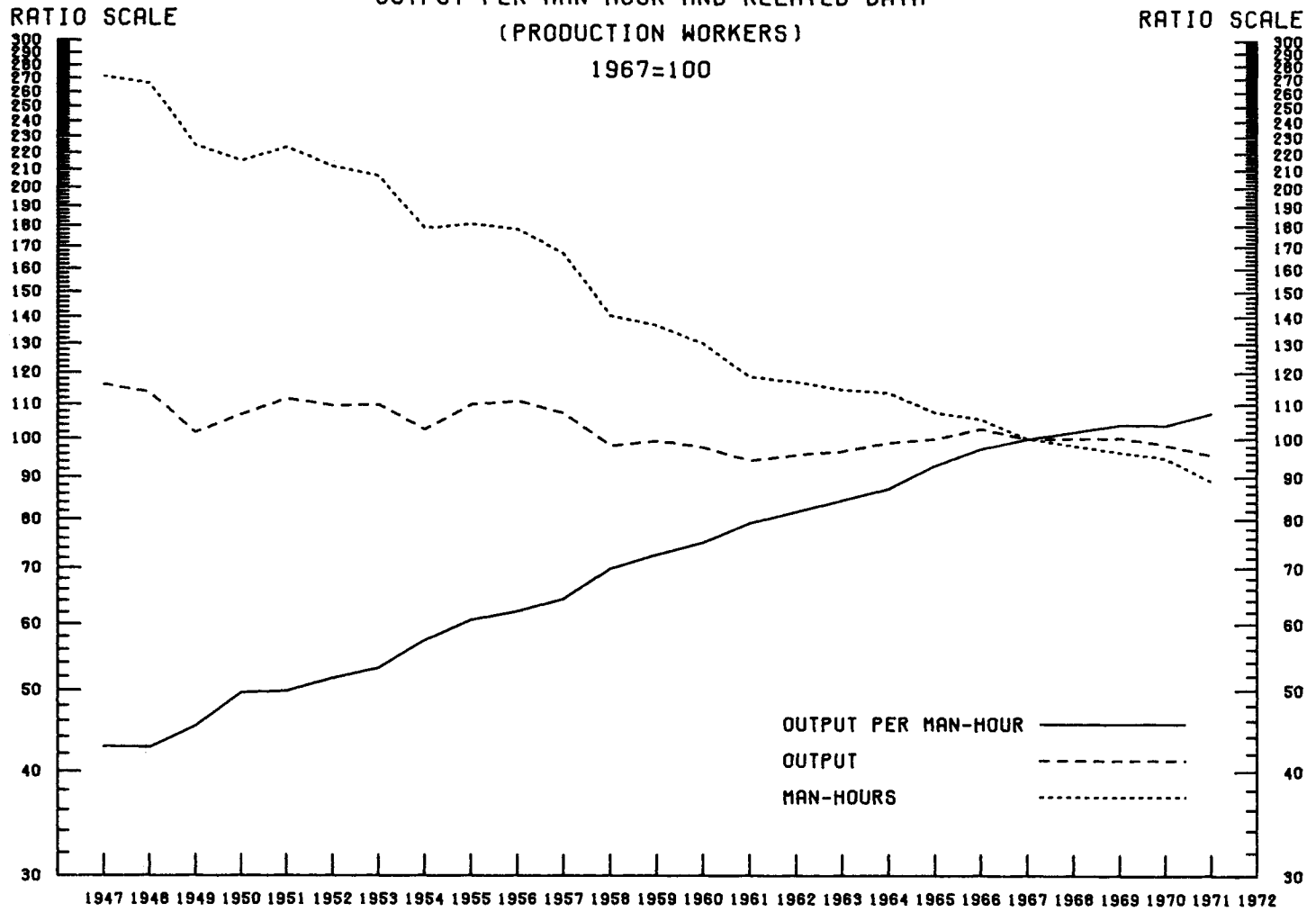
162



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

CHART 69
 RAILROADS, CAR MILES SIC 401, CLASS I, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

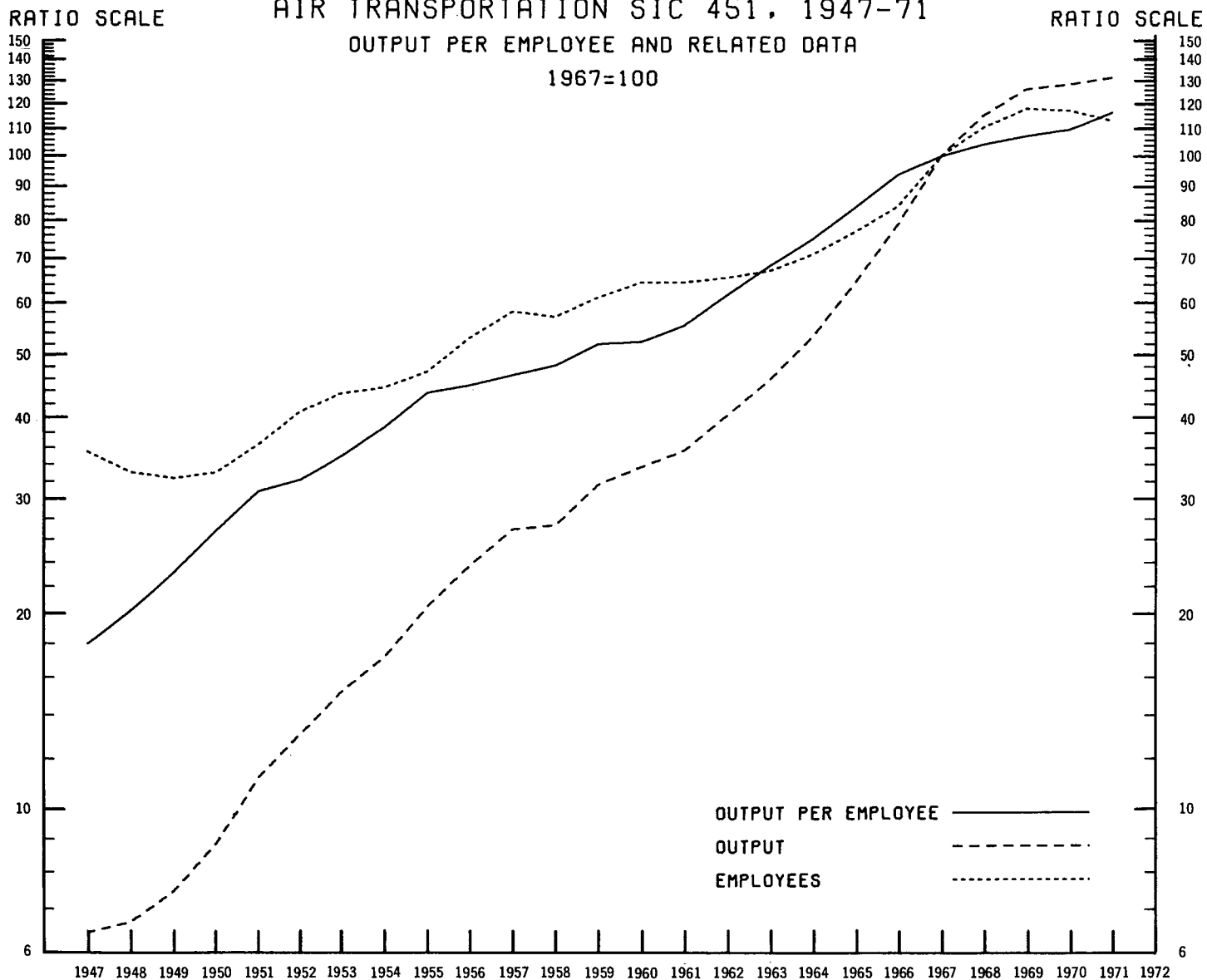
153



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

CHART 70
 AIR TRANSPORTATION SIC 451, 1947-71
 OUTPUT PER EMPLOYEE AND RELATED DATA
 1967=100

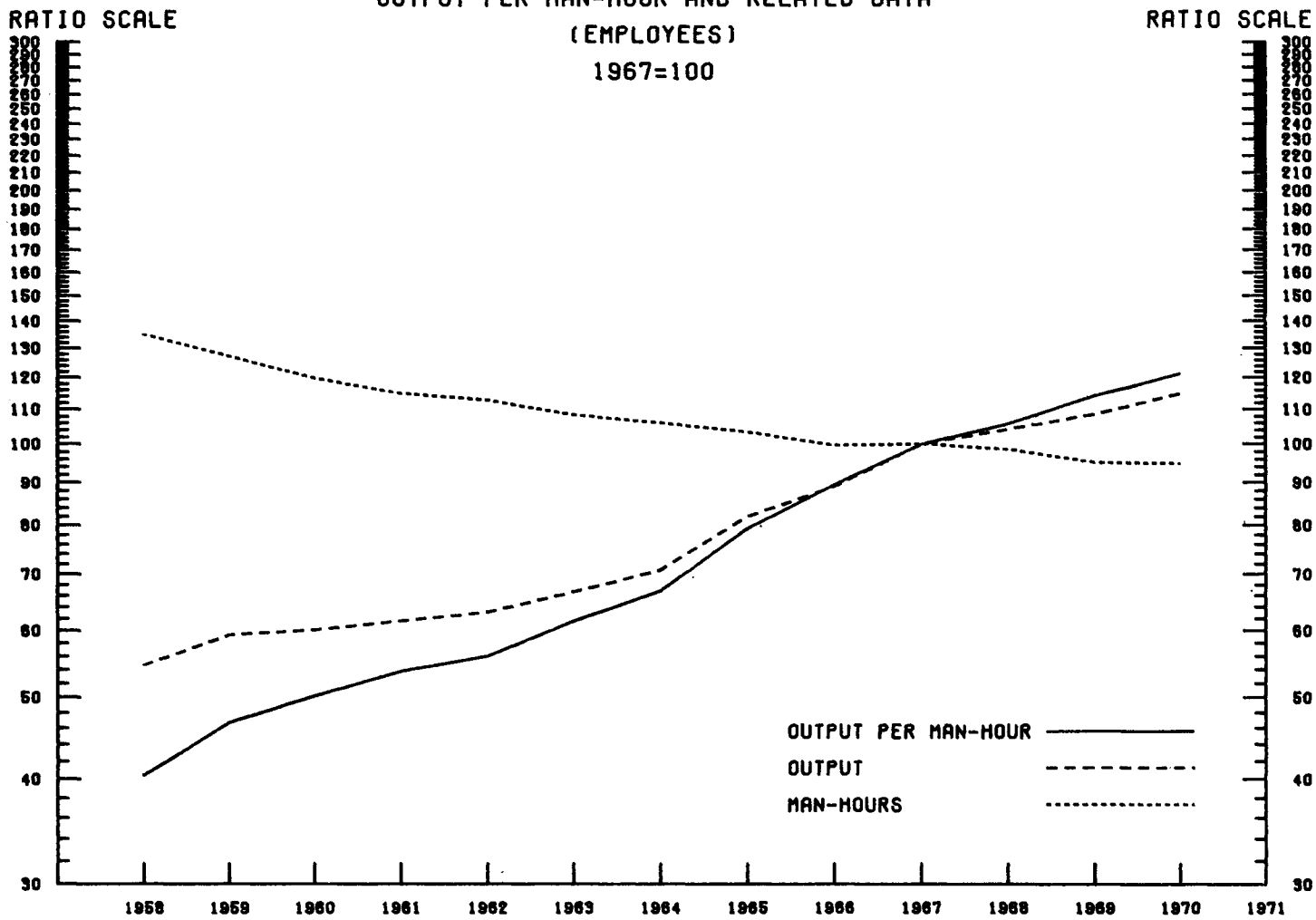
154



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

CHART 71
 PETROLEUM PIPELINES SIC 4612, 4613, 1958-70
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100

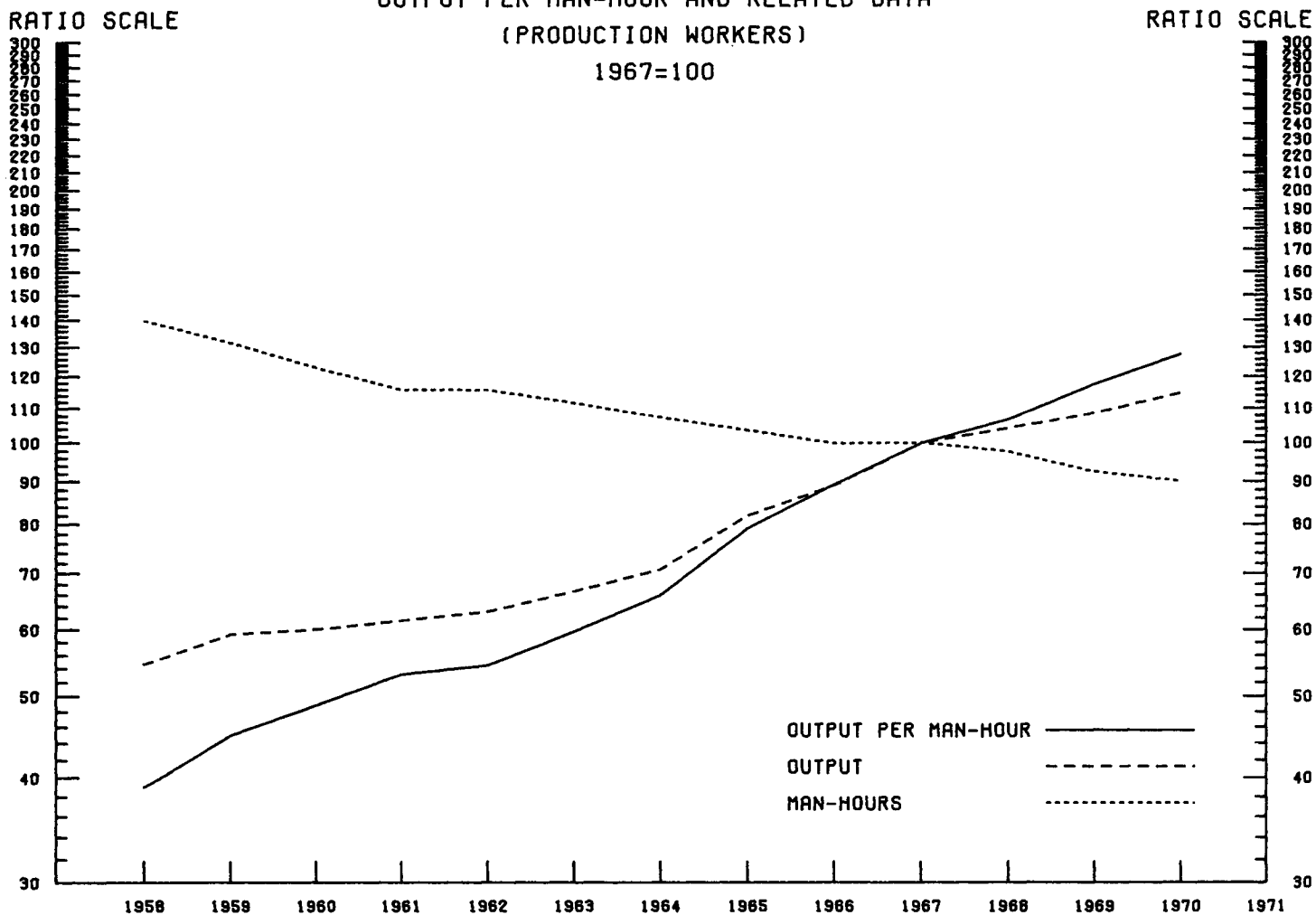
1965



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

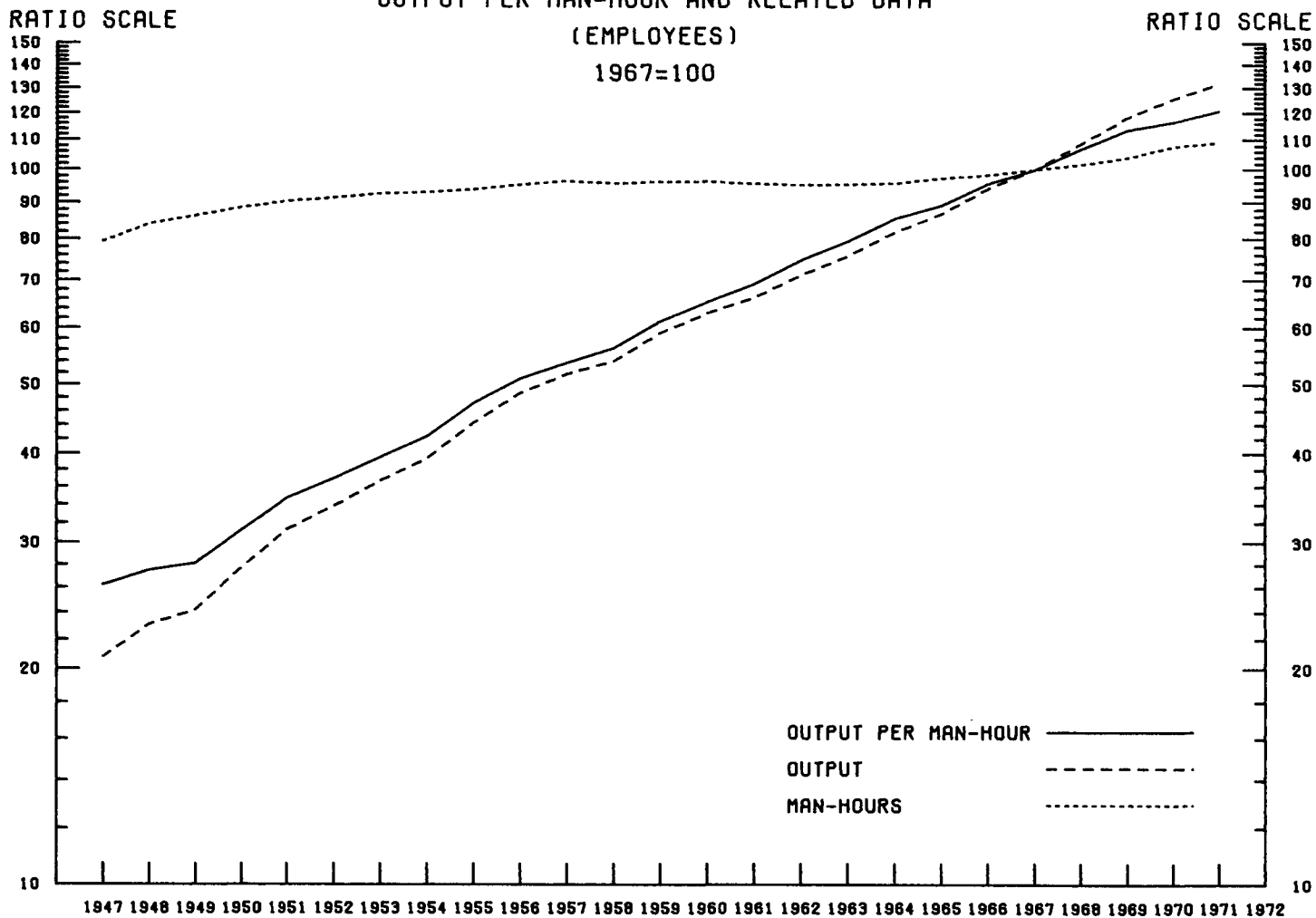
CHART 72
 PETROLEUM PIPELINES SIC 4612, 4613, 1958-70
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

156



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

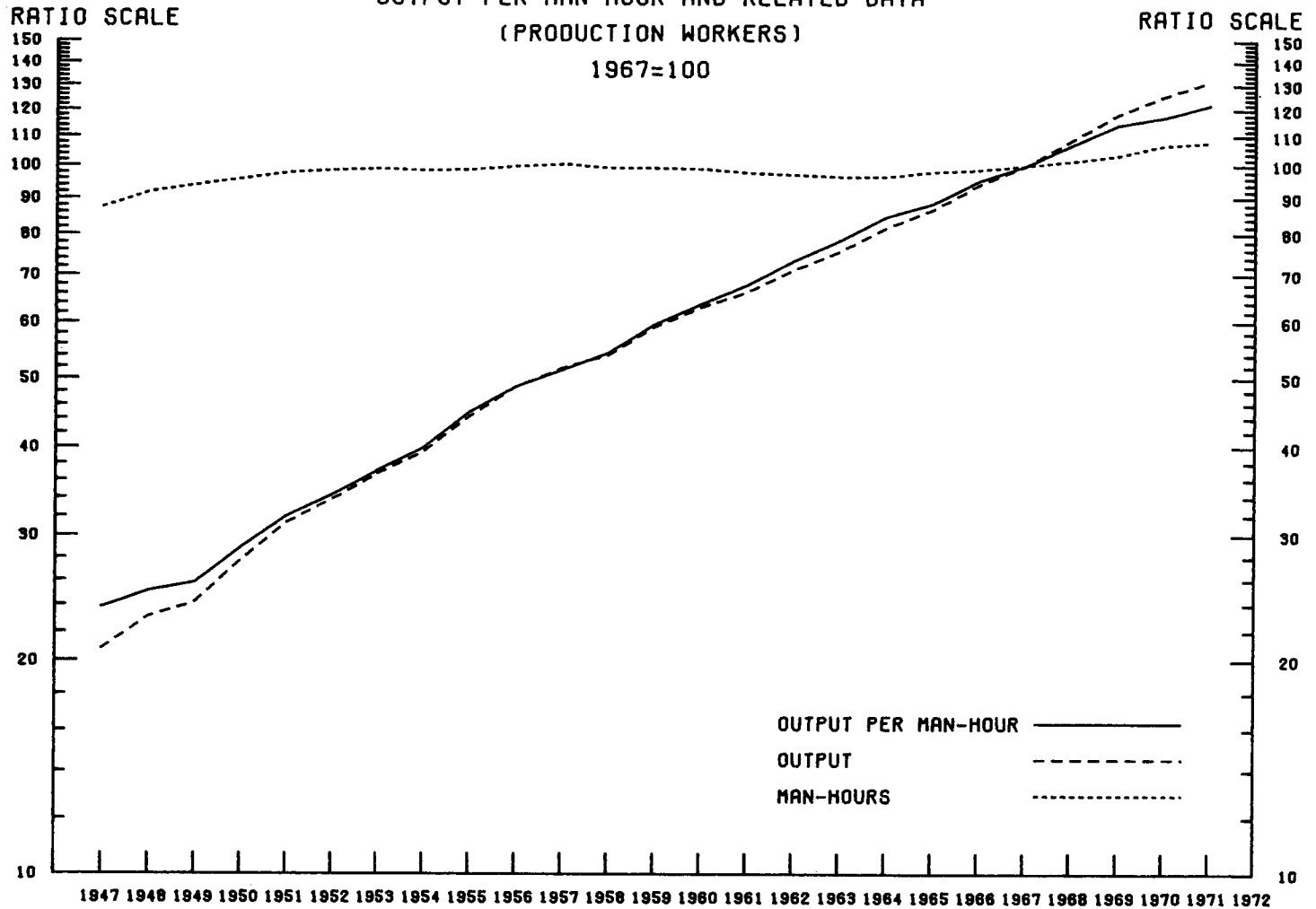
CHART 73
 GAS AND ELECTRIC UTILITIES SIC 491, 492, 493, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (EMPLOYEES)
 1967=100



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

CHART 74
 GAS AND ELECTRIC UTILITIES SIC 491, 492, 493, 1947-71
 OUTPUT PER MAN-HOUR AND RELATED DATA
 (PRODUCTION WORKERS)
 1967=100

109



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

Recent BLS Publications on Productivity and Technology

Productivity Trends in Individual Industries—

- “Productivity in the Metal Cans Industry,” *Monthly Labor Review*, July 1972.
- “Productivity in the Bakery Products Industry,” *Monthly Labor Review*, June 1972.
- “Productivity in Petroleum Pipelines Industry,” *Monthly Labor Review*, April 1971.
- “Productivity in the Soft Drinks Industry,” *Monthly Labor Review*, December 1970.
- “Productivity in the Major Household Appliance Industry,” *Monthly Labor Review*, September 1970. Reprint 2691.
- “Trends in Output Per Man-Hour in the Sugar Industry,” *Monthly Labor Review*, July 1970. Reprint 2680.
- “Output Per Man-Hour Measures: Industries,” reprint of Chapter 26 of the *Handbook of Methods for Surveys and Studies*, BLS Bulletin 1711, 1971.

Productivity and Other Economic Trends—

- Quarterly Review of Productivity, Wages, and Prices.*
- Quarterly Review of Productivity and Costs.*
- “Productivity and Cost Movements in 1971,” *Monthly Labor Review*, May 1972.
- Meaning and Measurement of Productivity*, BLS Bulletin 1714, 1971. 30 cents.
- Productivity and the Economy*, BLS Bulletin 1710, 1971. 50 cents.
- Productivity in the Railroad Industry*, BLS Report 377, 1970.
- Productivity Analysis in Manufacturing Plants*, BLS Staff Paper 3, 1970. 50 cents.
- “Output Per Man-Hour Measures: Private Sector,” reprint of Chapter 25 of the *Handbook of Methods for Surveys and Studies*, BLS Bulletin 1711, 1971.

Technology Studies—

- Railroad Technology and Manpower in the 1970's*, BLS Bulletin 1717, 1972. \$1.
- “New Technology in Laundry and Cleaning Services,” *Monthly Labor Review*, February 1972.
- Improving Productivity: Labor and Management Approaches*, BLS Bulletin 1715, 1971. 45 cents.
- “Technology and Manpower in Nonelectrical Machinery,” *Monthly Labor Review*, June 1971. Reprint 2741.
- Outlook for Computer Process Control*, BLS Bulletin 1658, 1970. 70 cents.
- “Manpower Implications of Computer Control in Manufacturing,” *Monthly Labor Review*, October 1970. Reprint 2615.
- “Technological Changes in the Printing and Publishing Industry,” *Monthly Labor Review*, August 1970. Reprint 2687.
- “Technological Change,” reprint of Chapter 27 of the *Handbook of Methods for Surveys and Studies*, BLS Bulletin 1711, 1971.

International Comparisons—

- “Unit Labor Costs in the U.S. and 10 Other Nations, 1960–71,” *Monthly Labor Review*, July 1972.
- “Unemployment in Nine Industrialized Countries,” *Monthly Labor Review*, June 1972.
- “Comparing Employment Shifts in 10 Countries,” *Monthly Labor Review*, October 1971.
- “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.

Construction Labor Requirements—

- Labor and Materials Requirements for Construction of Private Single-Family Houses*, BLS Bulletin 1755, 1972. Price not set.
- “Labor Requirements for Public Housing Construction,” *Monthly Labor Review*, April 1972.

Construction Labor Requirements—Continued

Labor and Material Requirements for Hospital and Nursing Home Construction, BLS Bulletin 1691, 1971.
“Construction Labor Requirements,” reprint of Chapter 28 of the *Handbook of Methods for Surveys and Studies*, BLS Bulletin 1711, 1971.

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