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Indexes of Output Per Man-Hour Selected Industries 1939 and 1947-68

BULLETIN 1652

December 1969

U.S. DEPARTMENT OF LABOR

Bureau of Labor Statistics



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(Continued on inside back cover)

Indexes of Output Per Man-Hour Selected Industries 1939 and 1947-68

BULLETIN 1642

December 1969

U.S. DEPARTMENT OF LABOR

George P. Shultz, Secretary

BUREAU OF LABOR STATISTICS

Geoffrey H. Moore, Commissioner



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Mining Industries

Output per man-hour, unit labor requirements, and related data:

Iron mining, crude ore - SIC 101

1. All employees	9
2. Production workers	10
3. Nonproduction workers	11

Iron mining, usable ore - SIC 101

4. All employees	12
5. Production workers	13
6. Nonproduction workers	14

Copper mining, crude ore - SIC 102

7. All employees	15
8. Production workers	16
9. Nonproduction workers	17

Copper mining, recoverable metal - SIC 102

10. All employees	18
11. Production workers	19
12. Nonproduction workers	20

Coal mining - SIC 11, 12

13. All employees	21
14. Production workers	22
15. Nonproduction workers	23

Bituminous coal and lignite mining - SIC 12

16. All employees	24
17. Production workers	25
18. Nonproduction workers	26

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Output per man-hour, unit labor requirements, and related data:

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19. All employees	27
20. Production workers	28
21. Nonproduction workers	29

Tables - Continued:

Manufacturing Industries - Continued

Output per man-hour, unit labor requirements, and related data:

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23. Production workers	31
24. Nonproduction workers	32
Beet sugar - SIC 2063	
25. All employees	33
26. Production workers	34
27. Nonproduction workers	35
Candy and other confectionery products - SIC 207 1	
28. All employees	36
29. Production workers	37
30. Nonproduction workers	38
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31. All employees	39
32. Production workers	40
33. Nonproduction workers	41
Tobacco products-total - SIC 211, 212, 213	
34. All employees	42
35. Production workers	43
36. Nonproduction workers	44
Cigarettes, chewing and smoking tobacco - SIC 211, 213	
37. All employees	45
38. Production workers	46
39. Nonproduction workers	47
Cigars - SIC 212	
40. All employees	48
41. Production workers	49
42. Nonproduction workers	50
Hosiery - SIC 225 1, 2252	
43. All employees	51
44. Production workers	52
45. Nonproduction workers	53
Paper, paperboard and pulp mills - SIC 26 1, 262, 263, 266	
46. All employees	54
47. Production workers	55
48. Nonproduction workers	56
Corrugated and solid fiber boxes - SIC 2653	
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50. Production workers	58
51. Nonproduction workers	59

Tables - Continued:

Manufacturing Industries - Continued

Output per man-hour, unit labor requirements, and related data:

Man-made fibers - SIC 2823, 2824

52. All employees	60
53. Production workers	61
54. Nonproduction workers	62

Petroleum refining - SIC 2911

55. All employees	63
56. Production workers	64
57. Nonproduction workers	65

Tires and inner tubes - SIC 3011

58. All employees	66
59. Production workers	67
60. Nonproduction workers	68

Footwear - SIC 3141, 3142

61. All employees	69
62. Production workers	70
63. Nonproduction workers	71

Glass containers - SIC 3221

64. All employees	72
65. Production workers	73
66. Nonproduction workers	74

Cement, hydraulic - SIC 3241

67. All employees	75
68. Production workers	76
69. Nonproduction workers	77

Concrete products - SIC 3271, 3272

70. All employees	78
71. Production workers	79
72. Nonproduction workers	80

Steel - SIC 331

73. All employees	81
74. Production workers	82
75. Nonproduction workers	83

Gray iron foundries - SIC 3321

76. All employees	84
77. Production workers	85
78. Nonproduction workers	86

Primary copper, lead, and zinc - SIC 3331, 3332, 3333

79. All employees	87
80. Production workers	88
81. Nonproduction workers	89

Tables - Continued:

Manufacturing Industries - Continued

Output per man-hour, unit labor requirements, and related data:

Primary aluminum - SIC 3334

82. All employees	90
83. Production workers	91
84. Nonproduction workers	92

Aluminum rolling and drawing - SIC 3352

85. All employees	93
86. Production workers	94
87. Nonproduction workers	95

Radio and television receiving sets - SIC 3651

88. All employees	96
89. Production workers	97
90. Nonproduction workers	98

Motor vehicles and equipment - SIC 371

91. All employees	99
92. Production workers	100
93. Nonproduction workers	101

Other Industries

Output per man-hour, unit labor requirements, and related data:

Railroad transportation, revenue traffic - SIC 401

94. All employees	102
95. Production workers	103
96. Nonproduction workers	104

Railroad transportation, car-miles - SIC 401

97. All employees	105
98. Production workers	106
99. Nonproduction workers	107

Air transportation - SIC 451

100. All employees	108
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Gas and electric utilities - SIC 491, 492, 493

101. All employees	109
102. Production workers	110

INDEXES OF OUTPUT PER MAN-HOUR: SELECTED INDUSTRIES, 1939 and 1947-68

Introduction

This bulletin updates industry indexes of output per man-hour, output per employee, and unit labor requirements for the industries currently included in the U.S. Government's productivity measurement program. The data cover the years 1939, and 1947 through 1967 or 1968. Indexes for the motor vehicles and equipment, gray iron foundries, and corrugated and solid fiber boxes industries are included for the first time.

The selected industries for which output per man-hour indexes are shown are not necessarily a representative cross section of American industry. They should not be combined, therefore, to obtain an overall measure for the entire economy or for any sector. Each index is intended to represent only the change in output per man-hour for the designated industry or combination of industries. However, the Bureau of Labor Statistics does publish indexes of output per man-hour and related measures for the total private economy and major sectors--farm, nonfarm, manufacturing, and nonmanufacturing.¹ Those measures show the relationship between gross national product originating in the private economy, or major sectors, and employment and man-hours.

This bulletin was prepared in the Bureau's Office of Productivity, Technology and Growth by Edwin Adelman, John Carey, Carolyn Fehd, John Ferris, John Henneberger, Clyde Huffstutler, Elmer Persigehl and Robert Robinowitz under the direction of Hazen Gale and Charles Ardolini.

¹ Trends in Output Per Man-Hour in the Private Economy, 1909-1958 (BLS Bulletin 1249, 1959), and subsequent releases.

HIGHLIGHTS OF TRENDS IN OUTPUT PER MAN-HOUR

The level of production in the United States has grown steadily since 1947--due partly to the increase in population and the related labor force rise but even more to the growth of productivity, especially in the industrial sector. However, broad measures of productivity, output, and employment may often mask divergent trends in the individual industries which make up the total.

Current Developments

Almost one-half of the selected industries registered declines in productivity between 1966-67. Productivity increases for the remainder of the selected industries generally were below their respective 1957-67 rates. This slowdown in productivity may be attributed to the decline in capacity utilization which is one of the most important single influences on short-run productivity behavior. The Federal Reserve Board measure of the rate of capacity utilization for manufacturing dropped 5.7 percent in 1967, the sharpest annual decline since the recession in 1958. Productivity improved in 1968 for almost all of the small groups of industries for which data were available. Thus, the recent trends for selected industries tended to mirror the behavior of the manufacturing sector of the economy. In 1968, the manufacturing sector showed a large productivity increase of 5.4 percent, significantly higher than the 0.2 percent increase registered in 1967.

This pattern was present in the motor vehicles and steel industries, the largest of the selected industries and among the most susceptible to changes in the economy's operating level. In the motor vehicles industry, a near-record level of passenger car production in 1968 helped to improve upon the lower productivity in the previous year which was caused partially by a strike situation.

Long-Term Movements

Year-to-year movements were far from regular, with most of the industries showing decreases for one or more years. The interindustry growth pattern varied considerably, ranging from an average annual rate of increase of 8 percent in air transportation for the 1947-67 period to a 1.3 percent increase in glass containers and in cigarettes and tobacco. Similarly, no single pattern emerged from the industry productivity-output-employment relationships. Declines, as well as increases, in employment and output were associated with high productivity increases.

During the most recent decade, 1957-67, the U.S. economy experienced significant productivity gains, reflecting mainly increased capital investment levels and generally high levels of output. In the manufacturing sector, output per man-hour rose at an annual average rate of 3.5 percent, about 20 percent higher than for the postwar period as a whole. About two-thirds of the selected industries exceeded the all manufacturing rate in this period. Substantial gains of over 5 percent were recorded in air transportation, petroleum refining, aluminum rolling and drawing, cigars, hosiery, radio and television receiving sets, railroads, gas and electric utilities, coal, malt liquors, tires and tubes, and primary aluminum. Most of this group also experienced significant gains in the 1947-57 period.

Productivity increases slightly lower in magnitude but above the manufacturing average were found in the cement, paper, paperboard and pulp mills, motor vehicles, man-made fibers, flour, and candy industries. The remaining industries registered productivity gains below 3.5 percent.

The bulk of the industries experienced larger increases in the 1957-67 period as compared with the previous decade. These changes contributed to the comparable pattern for the manufacturing sector and the total private economy. In general, those industries with the highest productivity gains in 1947-57 were the leaders in 1957-67. This suggests that further research may be desirable to isolate the industry characteristics which may be conducive towards productivity growth. Only two industries showed sharp changes in the rate of productivity between the two decades. These were malt liquors and concrete products.

Productivity-Output-Employment Relationships

Generally, there is a positive correlation between changes in output and productivity in an industry. The relationship is a mutually reinforcing one: high levels of output allow for high utilization rates and increased capital investment. This tends to lower man-hour requirements and, in turn, leads to lower relative prices and an increased demand.

About one-half of the 19 industries that experienced above average productivity gains also had above average output increases. Corrugated and solid fiber boxes was the only industry with a below average productivity rate having an associated high output increase. In the only industry that registered a decrease in output--flour--output per man-hour increased at a rate of about 4 percent.

Employment trends are determined by the combined movements of productivity and output. As output increases, the related productivity increase will be an offsetting factor and the resulting change in employment could, therefore, move in either direction.

Air transportation, radio and television receiving sets, and man-made fibers were the only selected industries experiencing significant employment gains--over 4 percent per year--in the 1957-67 period. In each of these industries, high output per man-hour increases were associated with even higher output increases. Moderate employment increases were experienced in the aluminum rolling and drawing, primary aluminum, motor vehicles, corrugated and solid fiber boxes, and concrete industries where productivity gains were lower than the high output increases.

Employment declines occurred in 14 of the 31 industries. The greatest declines were in cigars, railroads, coal, and flour where output movements were significantly below the average trend level. Moderate declines were registered in the remainder.

METHODS AND DATA

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 inter-related 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.

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 here measure changes in the relationship between output and employment or man-hours. Although, traditionally, output per man-hour has been the measurement most frequently used, in some instances studies of output per man-hour are simplified if made in terms of the reciprocal: man-hour requirements per unit of output (unit man-hours). Therefore, unit labor requirements indexes are shown for all industries in this report.

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; and for 1963-68, 1963 weights. For three industries, railroads, iron mining, and copper mining, two alternative output measures, representing different concepts of industry output are presented.

Employment and man-hour indexes are developed primarily from basic data compiled by the Bureau of the Census or the Bureau of Labor Statistics. In concept, indexes based on man-hour data from the Bureau of the Census relate to plant hours only. Man-hour data from the Bureau of Labor Statistics include not only hours at work but also payroll hours such as vacations, holidays, and sick leave paid by the establishment directly to the employee.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.

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.

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 various sources which are identified in the accompanying tables.

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.

The indexes refer to the standard reference base (1957-59=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 upon 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 1458, 1966, chapter 23, and in a number of individual industry reports. These publications, as well as additional information, are available upon request from the Bureau of Labor Statistics.

SELECTED INDUSTRIES: SIC CODES, 1967 EMPLOYMENT, AND AVERAGE ANNUAL RATES OF CHANGE IN OUTPUT
PER MAN-HOUR, 1947-67 AND 1957-67

SIC Code	Industry title	1967 employment (thousands) ¹			Output per man-hour: Average annual rate of change (percent) ²					
		All employees	Production workers	Non-production workers	1947-67			1957-67		
					All employees	Production workers	Non-production workers ³	All employees	Production workers	Non-production workers ³
<u>Mining</u>										
101	Iron mining, crude ore ⁴ -----	26	21	4	(5)	5.2	(5)	(5)	6.6	(5)
101	Iron mining, usable ore ⁴ -----	26	21	4	(5)	1.9	(5)	(5)	3.1	(5)
102	Copper mining, crude ore ⁴ -----	25	19	6	(5)	4.4	(5)	(5)	3.2	(5)
102	Copper mining, recoverable metal ⁴ -----	25	19	6	(5)	2.8	(5)	(5)	2.0	(5)
11, 12	Coal mining ⁴ -----	139	120	18	(5)	6.2	(5)	(5)	5.9	(5)
12	Bituminous coal and lignite mining ⁴ -----	132	115	17	(5)	6.3	(5)	(5)	6.0	(5)
<u>Manufacturing</u>										
203	Canning and preserving -----	278	234	45	3.6	3.9	(1.7)	3.3	3.4	(3.4)
2041	Flour and other grain mill products -----	20	15	5	3.8	4.0	(3.2)	3.9	3.6	(4.9)
2063	Beet sugar -----	11	10	1	4.3	4.1	(5.6)	⁶ 3.0	⁶ 3.1	⁶ (2.1)
2071	Candy and other confectionery products -----	67	56	11	3.5	3.5	(3.6)	3.7	3.2	(6.2)
2082	Malt liquors -----	60	41	19	4.4	4.5	(4.1)	5.9	5.6	(6.5)
211, 212, 213	Tobacco products -- Total -----	60	53	7	3.5	3.8	(1.2)	3.6	3.9	(0.9)
211, 213	Cigarettes, chewing and smoking tobacco --	41	36	5	1.3	1.5	(-0.2)	1.6	1.9	(-1.1)
212	Cigars -----	19	17	2	6.5	6.7	(3.8)	6.8	7.0	(5.2)
2251, 2252	Hosiery -----	95	87	8	5.0	5.1	(4.3)	6.8	6.8	(6.8)
261, 262, 263, 266	Paper, paperboard and pulp mills -----	229	183	46	3.9	4.3	(1.5)	4.7	5.0	(3.2)
2653	Corrugated and solid fiber boxes -----	98	74	24	(5)	(5)	(5)	⁶ 2.8	⁶ 2.9	⁶ (2.6)
2823, 2824	Man-made fibers -----	90	65	25	(5)	(5)	(5)	4.0	4.2	(3.3)
2911	Petroleum refining -----	106	75	31	5.9	6.4	(4.4)	7.2	7.4	(6.5)
3011	Tires and inner tubes -----	94	72	22	4.3	4.6	(3.1)	5.9	6.0	(5.4)
3141, 3142	Footwear -----	211	190	21	1.8	1.8	(1.6)	1.0	0.9	(1.7)
3221	Glass containers -----	68	61	7	1.3	1.4	(0.9)	2.1	2.1	(2.6)
3241	Cement, hydraulic -----	32	26	6	4.7	5.1	(2.1)	4.8	5.5	(1.4)
3271, 3272	Concrete products -----	83	62	21	3.1	3.6	(0.8)	2.5	2.8	(1.5)
331	Steel ⁴ -----	635	510	126	1.7	2.2	(-0.6)	2.6	2.5	(2.9)
3321	Gray iron foundries -----	143	123	20	⁷ 2.1	⁷ 2.1	⁷ (1.6)	2.4	2.3	(3.7)
3331, 3332, 3333	Primary copper, lead, and zinc -----	21	17	4	2.4	2.7	(0.8)	2.5	2.4	(2.8)
3334	Primary aluminum -----	24	19	5	5.2	5.5	(3.8)	5.1	4.9	(5.8)
3352	Aluminum rolling and drawing -----	63	50	13	(5)	(5)	(5)	⁶ 7.0	⁶ 6.8	⁶ (7.8)
3651	Radio and television receiving sets -----	120	99	21	(5)	(5)	(5)	⁶ 6.6	⁶ 5.8	⁶ (10.6)
371	Motor vehicles and equipment ⁴ -----	816	627	189	(5)	(5)	(5)	4.5	4.3	(5.1)
<u>Other</u>										
401, Class I	Railroads, revenue traffic ⁴ -----	634	565	69	5.2	5.4	2.5	6.5	6.7	5.0
401, Class I	Railroads, car-miles ⁴ -----	634	565	69	4.2	4.5	1.6	4.1	4.3	2.7
451	Air transportation ⁴ -----	283	(5)	(5)	⁸ 8.0	(5)	(5)	⁸ 8.4	(5)	(5)
491, 492, 493	Gas and electric utilities ⁴ -----	598	⁹ 516	¹⁰ 82	7.2	⁹ 7.8	(5)	6.6	⁹ 7.0	(5)

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

² Based on 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 because of the method for estimating nonproduction worker man-hours.

⁴ Rates of change through 1968 are shown on industry tables.

⁵ Not available.

⁶ Average annual rate of change is for 1958-67.

⁷ Average annual rate of change is for 1954-67.

⁸ Output per employee.

⁹ Nonsupervisory personnel.

¹⁰ Supervisory personnel and force account construction workers.

TABLE 1. IRON MINING, CRUDE ORE SIC 101
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER ALL EMPLOYEE	UNIT LABOR REQUIREMENTS IN TERMS OF ALL EMPLOYEES	RELATED DATA	
			OUTPUT	ALL EMPLOYEES
1939.....	(¹)	(¹)	48.7	(¹)
1947.....	88.3	113.3	93.9	106.4
1948.....	91.4	109.5	103.6	113.4
1949.....	82.0	121.9	85.7	104.5
1950.....	92.9	107.6	102.4	110.2
1951.....	105.5	94.8	123.3	116.9
1952.....	99.8	100.2	103.6	103.8
1953.....	101.4	98.7	126.0	124.3
1954.....	80.1	124.8	87.6	109.3
1955.....	108.3	92.4	114.1	105.4
1956.....	108.9	91.8	117.3	107.7
1957.....	107.8	92.8	129.1	119.8
1958.....	91.7	109.1	88.2	96.2
1959.....	98.3	101.7	82.6	84.0
1960.....	123.9	80.7	125.1	161.0
1961.....	135.2	74.0	110.6	81.8
1962.....	151.2	66.2	116.4	77.0
1963.....	168.6	59.3	124.4	73.8
1964.....	187.5	53.3	141.4	75.4
1965.....	183.0	54.7	144.9	79.2
1966.....	186.6	53.6	148.5	79.6
1967.....	190.8	52.4	149.4	78.3
1968 ²	206.5	48.4	159.6	77.3
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	4.4	-4.2	2.1	-2.2
1957-68	7.7	-7.2	4.5	-2.9

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 2. IRON MINING, CRUDE ORE SIC 101
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-68
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	56.8	60.2	176.0	166.1	48.7	85.7	80.9
1947.....	74.8	70.4	133.8	142.0	93.9	125.6	133.3
1948.....	78.0	71.5	128.2	139.8	103.6	132.8	144.8
1949.....	71.6	68.3	139.7	146.4	85.7	119.7	125.5
1950.....	81.5	75.5	122.7	132.5	102.4	125.6	135.7
1951.....	92.8	82.9	107.7	120.6	123.3	132.8	148.7
1952.....	90.3	78.1	110.7	128.1	103.6	114.7	132.7
1953.....	91.4	81.7	109.4	122.5	126.0	137.8	154.3
1954.....	73.9	74.1	135.3	134.9	87.6	118.5	118.2
1955.....	101.3	95.5	98.7	104.7	114.1	112.6	119.5
1956.....	104.5	99.5	95.7	100.5	117.3	112.2	117.9
1957.....	104.5	100.5	95.7	99.5	129.1	123.5	128.5
1958.....	93.3	98.0	107.1	102.0	88.2	94.5	90.0
1959.....	100.9	101.3	99.2	98.7	82.6	81.9	81.5
1960.....	121.0	114.6	82.7	87.3	125.1	103.4	109.2
1961.....	135.7	132.5	73.7	75.5	110.6	81.5	83.5
1962.....	150.6	142.3	66.4	70.3	116.4	77.3	81.8
1963.....	163.5	157.3	61.2	63.6	124.4	76.1	79.1
1964.....	180.8	169.1	55.3	59.1	141.4	78.2	83.6
1965.....	176.9	162.6	56.5	61.5	144.9	81.9	89.1
1966.....	183.1	163.5	54.6	61.1	148.5	81.1	90.8
1967.....	188.2	168.4	53.1	59.4	149.4	79.4	88.7
1968 ²	205.4	185.2	48.7	54.0	159.6	77.7	86.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	5.2	5.2	-5.0	-4.9	2.1	-3.0	-3.0
1957-68	7.5	6.3	-7.0	-5.9	4.5	-2.8	-1.7

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 3. IRON MINING, CRUDE ORE SIC 101
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)				
YEAR	OUTPUT PER NON- PRODUCTION WORKER	UNIT LABOR REQUIREMENTS IN TERMS OF NON- PRODUCTION WORKERS	RELATED DATA	
			OUTPUT ¹	NON- PRODUCTION WORKERS
1939.....	(²)	(²)	48.7	(²)
1947.....	207.3	48.2	93.9	45.3
1948.....	199.2	50.2	103.6	52.0
1949.....	153.0	65.3	85.7	56.0
1950.....	167.0	59.9	102.4	61.3
1951.....	184.9	54.1	123.3	66.7
1952.....	149.5	66.9	103.6	69.3
1953.....	155.0	64.5	126.0	81.3
1954.....	109.5	91.3	87.6	80.0
1955.....	138.0	72.5	114.1	82.7
1956.....	125.7	79.5	117.3	93.3
1957.....	119.5	83.7	129.1	108.0
1958.....	87.1	114.9	88.2	101.3
1959.....	91.1	109.8	82.6	90.7
1960.....	134.1	74.6	125.1	93.3
1961.....	133.7	74.8	110.6	82.7
1962.....	153.2	65.3	116.4	76.0
1963.....	186.5	53.6	124.4	66.7
1964.....	212.0	47.2	141.4	66.7
1965.....	205.0	48.8	144.9	70.7
1966.....	198.8	50.3	148.5	74.7
1967.....	200.3	50.0	149.4	74.7
1968 ³	210.0	47.6	159.6	76.0
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	0.7	-0.7	2.1	1.4
1957-68	8.3	-7.7	4.5	-3.5

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 4. IRON MINING, USABLE ORE SIC 101
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-68
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER ALJ. EMPLOYEE	UNIT LABOR REQUIREMENTS IN TERMS OF ALL EMPLOYEES	RELATED DATA	
			OUTPUT	ALL EMPLOYEES
1939.....	(¹)	(¹)	66.7	(¹)
1947.....	113.1	88.4	120.3	106.4
1948.....	115.3	86.7	130.8	113.4
1949.....	105.2	95.1	109.9	104.5
1950.....	115.2	86.8	127.0	110.2
1951.....	129.3	77.3	151.2	116.9
1952.....	122.4	81.7	127.1	103.8
1953.....	123.4	81.0	153.4	124.3
1954.....	92.5	108.1	101.1	109.3
1955.....	126.2	79.2	133.0	105.4
1956.....	116.8	85.6	125.8	107.7
1957.....	113.9	87.8	136.5	119.8
1958.....	89.9	111.2	86.5	96.2
1959.....	91.7	109.1	77.0	84.0
1960.....	113.2	88.4	114.3	101.0
1961.....	112.5	88.9	92.0	81.8
1962.....	120.8	82.8	93.0	77.0
1963.....	129.3	77.4	95.4	73.8
1964.....	145.5	68.7	109.7	75.4
1965.....	143.2	69.8	113.4	79.2
1966.....	147.0	68.0	117.0	79.6
1967.....	139.5	71.7	109.2	78.3
1968 ²	144.2	69.3	111.5	77.3
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	1.1	-1.1	-1.2	-2.2
1957-68	4.2	-4.1	1.2	-2.9

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 5. IRON MINING, USABLE ORE SIC 101
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	77.8	82.4	128.5	121.3	66.7	85.7	80.9
1947.....	95.8	90.2	104.4	110.8	120.3	125.6	133.3
1948.....	98.5	90.3	101.5	110.7	130.8	132.8	144.8
1949.....	91.8	87.6	108.9	114.2	109.9	119.7	125.5
1950.....	101.1	93.6	98.9	106.9	127.0	125.6	135.7
1951.....	113.9	101.7	87.8	98.3	151.2	132.8	148.7
1952.....	110.8	95.8	90.2	104.4	127.1	114.7	132.7
1953.....	111.3	99.4	89.8	100.6	153.4	137.8	154.3
1954.....	85.3	85.5	117.2	116.9	101.1	118.5	118.2
1955.....	118.1	111.3	84.7	89.8	133.0	112.6	119.5
1956.....	112.1	106.7	89.2	93.7	125.8	112.2	117.9
1957.....	110.5	106.2	90.5	94.1	136.5	123.5	128.5
1958.....	91.5	96.1	109.2	104.0	86.5	94.5	90.0
1959.....	94.0	94.5	106.4	105.8	77.0	81.9	81.5
1960.....	110.5	104.7	90.5	95.5	114.3	103.4	109.2
1961.....	112.9	110.2	88.6	90.8	92.0	81.5	83.5
1962.....	120.3	113.7	83.1	88.0	93.0	77.3	81.8
1963.....	125.4	120.6	79.8	82.9	95.4	76.1	79.1
1964.....	140.3	131.2	71.3	76.2	109.7	78.2	83.6
1965.....	138.5	127.3	72.2	78.6	113.4	81.9	89.1
1966.....	144.3	128.9	69.3	77.6	117.0	81.1	90.8
1967.....	137.5	123.1	72.7	81.2	109.2	79.4	88.7
1968 ²	143.5	129.4	69.7	77.3	111.5	77.7	86.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	1.9	1.9	-1.8	-1.8	-1.2	-3.0	-3.0
1957-68	4.0	2.9	-3.9	-2.8	1.2	-2.8	-1.7

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 6. IRON MINING, USABLE ORE SIC 101
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER NON- PRODUCTION WORKER	UNIT LABOR REQUIREMENTS IN TERMS OF NON- PRODUCTION WORKERS	RELATED DATA	
			OUTPUT ¹	NON- PRODUCTION WORKERS
1939.....	(²)	(²)	66.7	(²)
1947.....	265.6	37.7	120.3	45.3
1948.....	251.5	39.8	130.8	52.0
1949.....	196.3	51.0	109.9	56.0
1950.....	207.2	48.3	127.0	61.3
1951.....	226.7	44.1	151.2	66.7
1952.....	183.4	54.5	127.1	69.3
1953.....	188.7	53.0	153.4	81.3
1954.....	126.4	79.1	101.1	80.0
1955.....	160.8	62.2	133.0	82.7
1956.....	134.8	74.2	125.8	93.3
1957.....	126.4	79.1	136.5	108.0
1958.....	85.4	117.1	86.5	101.3
1959.....	84.9	117.8	77.0	90.7
1960.....	122.5	81.6	114.3	93.3
1961.....	111.2	89.9	92.0	82.7
1962.....	122.4	81.7	93.0	76.0
1963.....	143.0	69.9	95.4	66.7
1964.....	164.5	60.8	109.7	66.7
1965.....	160.4	62.3	113.4	70.7
1966.....	156.6	63.8	117.0	74.7
1967.....	146.2	68.4	109.2	74.7
1968 ³	146.7	68.2	111.5	76.0
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	-2.5	2.6	-1.2	1.4
1957-68	4.8	-4.6	1.2	-3.5

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 7. COPPER MINING, CRUDE ORE SIC 102
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER ALL EMPLOYEE	UNIT LABOR REQUIREMENTS IN TERMS OF ALL EMPLOYEES	RELATED DATA	
			OUTPUT ¹	ALL EMPLOYEES
1939.....	(²)	(²)	46.1	(²)
1947.....	74.9	133.5	74.4	99.3
1948.....	72.9	137.1	71.9	98.6
1949.....	69.2	144.5	64.7	93.5
1950.....	86.6	115.5	80.6	93.1
1951.....	87.2	114.7	81.5	93.5
1952.....	89.3	111.9	85.5	95.7
1953.....	83.8	119.3	86.6	103.3
1954.....	79.8	125.2	80.4	100.7
1955.....	92.7	107.9	96.7	104.3
1956.....	94.3	106.1	113.4	120.3
1957.....	95.7	104.5	111.7	116.7
1958.....	98.9	101.1	98.9	100.0
1959.....	106.8	93.6	89.4	83.7
1960.....	116.2	86.1	117.0	100.7
1961.....	121.5	82.3	124.2	102.2
1962.....	131.6	76.0	131.1	99.6
1963.....	133.6	74.8	128.3	96.0
1964.....	145.0	69.0	136.0	93.8
1965.....	146.0	68.5	151.8	104.0
1966.....	148.2	67.5	163.8	110.5
1967.....	126.5	79.1	111.3	88.0
1968 ³	143.8	69.5	149.0	103.6
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	3.7	-3.6	3.8	0.1
1957-68	3.8	-3.7	3.6	-0.2

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, CRUDE ORE SIC 102
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	40.5	39.3	247.1	254.4	46.1	113.9	117.3
1947.....	68.2	61.8	146.6	161.7	74.4	109.1	120.3
1948.....	66.2	59.5	151.0	168.2	71.9	108.6	120.9
1949.....	63.5	61.0	157.5	163.8	64.7	101.9	106.0
1950.....	80.6	72.9	124.1	137.2	80.6	100.0	110.6
1951.....	82.3	72.5	121.5	137.9	81.5	99.0	112.4
1952.....	85.5	76.1	117.0	131.3	85.5	100.0	112.3
1953.....	81.2	72.0	123.2	138.9	86.6	106.7	120.3
1954.....	78.1	74.7	128.0	134.0	80.4	102.9	107.7
1955.....	91.1	84.0	109.8	119.0	96.7	106.2	115.1
1956.....	91.5	85.4	109.3	117.1	113.4	123.9	132.8
1957.....	94.1	93.6	106.3	106.9	111.7	118.7	119.4
1958.....	98.9	103.3	101.1	96.8	98.9	100.0	95.7
1959.....	109.3	105.3	91.5	95.0	89.4	81.8	84.9
1960.....	116.4	107.9	85.9	92.6	117.0	100.5	108.4
1961.....	116.9	110.4	85.5	90.6	124.2	106.2	112.5
1962.....	125.1	120.3	79.9	83.1	131.1	104.8	109.0
1963.....	125.3	119.7	79.8	83.6	128.3	102.4	107.2
1964.....	136.7	131.1	73.2	76.3	136.0	99.5	103.7
1965.....	136.1	129.1	73.5	77.5	151.8	111.5	117.6
1966.....	138.6	131.1	72.2	76.3	163.8	118.2	124.9
1967.....	129.3	123.7	77.4	80.9	111.3	86.1	90.0
1968 ²	145.5	127.1	68.7	78.7	149.0	102.4	117.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	4.0	4.2	-3.8	-4.0	3.8	-0.2	-0.4
1957-68	3.6	2.8	-3.5	-2.7	3.6	0.0	0.7

¹ Represents output in terms of copper ore (including old tailings) sold or treated. The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 9. COPPER MINING, CRUDE ORE SIC 102
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER NON- PRODUCTION WORKER	UNIT LABOR REQUIREMENTS IN TERMS OF NON- PRODUCTION WORKERS	RELATED DATA	
			OUTPUT ¹	NON- PRODUCTION WORKERS
1939.....	(²)	(²)	46.1	(²)
1947.....	108.3	92.3	74.4	68.7
1948.....	107.0	93.5	71.9	67.2
1949.....	96.3	103.9	64.7	67.2
1950.....	112.6	88.8	80.6	71.6
1951.....	107.1	93.4	81.5	76.1
1952.....	104.1	96.0	85.5	82.1
1953.....	93.6	106.8	86.6	92.5
1954.....	84.2	118.8	80.4	95.5
1955.....	98.2	101.9	96.7	98.5
1956.....	104.0	96.1	113.4	109.0
1957.....	101.2	98.8	111.7	110.4
1958.....	98.9	101.1	98.9	100.0
1959.....	99.8	100.2	89.4	89.6
1960.....	115.3	86.8	117.0	101.5
1961.....	138.6	72.1	124.2	89.6
1962.....	156.8	63.8	131.1	83.6
1963.....	168.6	59.3	128.3	76.1
1964.....	178.7	56.0	136.0	76.1
1965.....	188.3	53.1	151.8	80.6
1966.....	189.1	52.9	163.8	86.6
1967.....	118.4	84.5	111.3	94.0
1968 ³	138.6	72.1	149.0	107.5
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	2.7	-2.6	3.8	1.1
1957-68	4.6	-4.4	3.6	-1.0

¹ Represents output in terms of copper ore (including old tailings) sold or treated. The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 10. COPPER MINING, RECOVERABLE METAL SIC 102
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-68
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER ALL EMPLOYEE	UNIT LABOR REQUIREMENTS IN TERMS OF ALL EMPLOYEES	RELATED DATA	
			OUTPUT ¹	ALL EMPLOYEES
1939.....	(²)	(²)	74.1	(²)
1947.....	87.9	113.7	87.3	99.3
1948.....	87.1	114.8	85.9	98.6
1949.....	82.1	121.7	76.8	93.5
1950.....	100.1	99.9	93.2	93.1
1951.....	101.6	98.4	95.0	93.5
1952.....	99.4	100.6	95.1	95.7
1953.....	92.6	107.9	95.7	103.3
1954.....	85.7	116.7	86.3	100.7
1955.....	99.3	100.7	103.6	104.3
1956.....	95.3	105.0	114.6	120.3
1957.....	96.4	103.7	112.5	116.7
1958.....	101.8	98.2	101.8	100.0
1959.....	102.3	97.8	85.6	83.7
1960.....	111.5	89.7	112.3	100.7
1961.....	118.6	84.3	121.2	102.2
1962.....	128.2	78.0	127.7	99.6
1963.....	131.3	76.2	126.0	96.0
1964.....	138.4	72.3	129.8	93.8
1965.....	135.3	73.9	140.7	104.0
1966.....	134.8	74.2	148.9	110.5
1967.....	112.5	88.9	99.0	88.0
1968 ³	120.4	83.1	124.7	103.6
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	2.1	-2.	2.2	0.1
1957-68	2.4	-2.3	2.1	-0.2

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 11. COPPER MINING, RECOVERABLE METAL SIC 102
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	65.1	63.2	153.7	158.3	74.1	113.9	117.3
1947.....	80.0	72.6	125.0	137.8	87.3	109.1	120.3
1948.....	79.1	71.1	126.4	140.7	85.9	108.6	120.9
1949.....	75.4	72.5	132.7	138.0	76.8	101.9	106.0
1950.....	93.2	84.3	107.3	118.7	93.2	100.0	110.6
1951.....	96.0	84.5	104.2	118.3	95.0	99.0	112.4
1952.....	95.1	84.7	105.2	118.1	95.1	100.0	112.3
1953.....	89.7	79.6	111.5	125.7	95.7	106.7	120.3
1954.....	83.9	80.1	119.2	124.8	96.3	102.9	107.7
1955.....	97.6	90.0	102.5	111.1	103.6	106.2	115.1
1956.....	92.5	86.3	108.1	115.9	114.6	123.9	132.8
1957.....	94.8	94.2	105.5	106.1	112.5	118.7	119.4
1958.....	101.8	106.4	98.2	94.0	101.8	100.0	95.7
1959.....	104.6	100.8	95.6	99.2	85.6	81.8	84.9
1960.....	111.7	103.6	89.5	96.5	112.3	100.5	108.4
1961.....	114.1	107.7	87.6	92.8	121.2	106.2	112.5
1962.....	121.9	117.2	82.1	85.4	127.7	104.8	109.0
1963.....	123.0	117.5	81.3	85.1	126.0	102.4	107.2
1964.....	130.5	125.2	76.7	79.9	129.8	99.5	103.7
1965.....	126.2	119.6	79.2	83.6	140.7	111.5	117.6
1966.....	126.0	119.2	79.4	83.9	148.9	118.2	124.9
1967.....	115.0	110.0	87.0	90.9	99.0	86.1	90.0
1968 ²	121.8	106.4	82.1	94.0	124.7	102.4	117.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	2.4	2.6	-2.3	-2.5	2.2	-0.2	-0.4
1957-68	2.2	1.4	-2.1	-1.4	2.1	-0.0	0.7

¹ Represents output in terms of copper recovered from copper ore, old tailings, and precipitates. The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 12. COPPER MINING, RECOVERABLE METAL SIC 102
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,

NONPRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER NON- PRODUCTION WORKER	UNIT LABOR REQUIREMENTS IN TERMS OF NON- PRODUCTION WORKERS	RELATED DATA	
			OUTPUT ¹	NON- PRODUCTION WORKERS
1939.....	(²)	(²)	74.1	(²)
1947.....	127.1	78.7	87.3	68.7
1948.....	127.8	78.2	85.9	67.2
1949.....	114.3	87.5	76.8	67.2
1950.....	130.2	76.8	93.2	71.6
1951.....	124.8	80.1	95.0	76.1
1952.....	115.8	86.3	95.1	82.1
1953.....	103.5	96.7	95.7	92.5
1954.....	90.4	110.7	86.3	95.5
1955.....	105.2	95.1	103.6	98.5
1956.....	105.1	95.1	114.6	109.0
1957.....	101.9	98.1	112.5	110.4
1958.....	101.8	98.2	101.8	100.0
1959.....	95.5	104.7	85.6	89.6
1960.....	110.6	90.4	112.3	101.5
1961.....	135.3	73.9	121.2	89.6
1962.....	152.8	65.5	127.7	83.6
1963.....	165.6	60.4	126.0	76.1
1964.....	170.6	58.6	129.8	76.1
1965.....	174.6	57.3	140.7	80.6
1966.....	171.9	58.2	148.9	86.6
1967.....	105.3	94.9	99.0	94.0
1968 ³	116.0	86.2	124.7	107.5
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	1.1	-1.1	2.2	1.1
1957-68	3.2	-3.1	2.1	-1.0

¹ Represents output in terms of copper recovered from copper ore, old tailings, and precipitates. The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 13. COAL MINING SIC 11,12
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-68
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER ALL EMPLOYEE	UNIT LABOR REQUIREMENTS IN TERMS OF ALL EMPLOYEES	RELATED DATA	
			OUTPUT	ALL EMPLOYEES
1939.....	45.1	221.9	98.9	219.5
1947.....	66.9	149.4	151.3	226.1
1948.....	62.9	159.1	144.7	230.2
1949.....	50.8	196.8	106.3	209.2
1950.....	63.1	158.4	123.9	196.2
1951.....	64.6	154.8	125.8	194.7
1952.....	64.9	154.1	111.7	172.1
1953.....	70.5	141.9	105.9	150.3
1954.....	78.1	128.0	91.7	117.4
1955.....	96.2	104.0	105.8	110.0
1956.....	100.5	99.5	114.8	114.2
1957.....	97.6	102.5	112.2	115.0
1958.....	97.4	102.7	93.9	96.4
1959.....	106.0	94.4	93.9	88.6
1960.....	112.6	88.8	93.6	83.1
1961.....	125.5	79.7	90.2	71.9
1962.....	138.8	72.1	93.8	67.6
1963.....	152.5	65.6	101.7	66.7
1964.....	163.1	61.3	106.8	65.5
1965.....	176.0	56.8	110.7	62.9
1966.....	187.2	53.4	114.4	61.1
1967.....	191.1	52.3	118.3	61.9
1968 ¹	195.1	51.3	115.7	59.3
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	6.6	-6.2	-0.9	-7.0
1957-68	7.5	-7.0	1.8	-5.3

¹ Preliminary.

Source: Output based on data from the Bureau of Mines, U.S. Department of the Interior, and the Bureau of the Census, 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. COAL MINING SIC 11,12
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-68
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	41.9	48.6	238.9	205.9	98.9	236.3	203.6
1947.....	62.7	54.5	159.5	183.3	151.3	241.3	277.4
1948.....	58.9	54.5	169.7	183.4	144.7	245.5	265.4
1949.....	48.0	57.2	208.5	175.0	106.3	221.6	186.0
1950.....	59.7	61.6	167.6	162.2	123.9	207.7	201.0
1951.....	60.9	61.8	164.1	161.7	125.8	206.4	203.4
1952.....	61.6	65.2	162.2	153.4	111.7	181.2	171.3
1953.....	67.1	70.1	149.0	142.6	105.9	157.8	151.0
1954.....	75.7	81.9	132.1	122.0	91.7	121.1	111.9
1955.....	93.1	87.7	107.4	114.0	105.8	113.6	120.6
1956.....	97.9	91.9	102.2	108.8	114.8	117.3	124.9
1957.....	95.8	93.2	104.4	107.3	112.2	117.1	120.4
1958.....	98.3	103.4	101.7	96.7	93.9	95.5	90.8
1959.....	107.4	105.7	93.1	94.6	93.9	87.4	88.8
1960.....	114.4	111.8	87.4	89.4	93.6	81.8	83.7
1961.....	127.0	123.2	78.7	81.2	90.2	71.0	73.2
1962.....	139.2	130.8	71.9	76.4	93.8	67.4	71.7
1963.....	151.6	135.6	66.0	73.7	101.7	67.1	75.0
1964.....	161.8	144.1	61.8	69.4	106.8	66.0	74.1
1965.....	176.0	152.9	56.8	65.4	110.7	62.9	72.4
1966.....	188.8	161.6	53.0	61.9	114.4	60.6	70.8
1967.....	192.4	165.0	52.0	60.6	118.3	61.5	71.7
1968 ²	198.1	171.4	50.5	58.3	115.7	58.4	67.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	7.0	6.1	-6.6	-5.8	-0.9	-7.4	-6.6
1957-68	7.6	5.7	-7.1	-5.4	1.8	-5.3	-3.7

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 15. COAL MINING SIC 11,12
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-68
(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER NON- PRODUCTION WORKER	UNIT LABOR REQUIREMENTS IN TERMS OF NON- PRODUCTION WORKERS	RELATED DATA	
			OUTPUT ¹	NON- PRODUCTION WORKERS
1939.....	102.8	97.3	98.9	96.2
1947.....	131.8	75.9	151.3	114.8
1948.....	122.8	81.4	144.7	117.8
1949.....	90.2	110.8	106.3	117.8
1950.....	110.5	90.5	123.9	112.1
1951.....	115.3	86.7	125.8	109.1
1952.....	106.1	94.3	111.7	105.3
1953.....	110.9	90.2	105.9	95.5
1954.....	102.6	97.5	91.7	89.4
1955.....	126.4	79.1	105.8	83.7
1956.....	125.7	79.5	114.8	91.3
1957.....	112.7	88.8	112.2	99.6
1958.....	91.8	108.9	93.9	102.3
1959.....	96.1	104.0	93.9	97.7
1960.....	101.7	98.3	93.6	92.0
1961.....	115.6	86.5	90.2	78.0
1962.....	136.1	73.5	93.8	68.9
1963.....	159.9	62.5	101.7	63.6
1964.....	173.1	57.8	106.8	61.7
1965.....	178.3	56.1	110.7	62.1
1966.....	178.8	55.9	114.4	64.0
1967.....	180.6	55.4	118.3	65.5
1968 ²	175.6	57.0	115.7	65.9
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	2.4	-2.4	-0.9	-3.2
1957-68	7.1	-6.6	1.8	-4.9

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 16. BITUMINOUS COAL AND LIGNITE MINING SIC 12
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER ALL EMPLOYEE	UNIT LABOR REQUIREMENTS IN TERMS OF ALL EMPLOYEES	RELATED DATA	
			OUTPUT	ALL EMPLOYEES
1939.....	44.2	226.1	88.8	200.8
1947.....	66.1	151.2	141.8	214.4
1948.....	61.6	162.5	134.8	219.0
1949.....	50.0	200.0	98.4	196.8
1950.....	63.3	158.1	116.1	183.5
1951.....	64.9	154.1	120.0	184.9
1952.....	64.6	154.8	104.9	162.4
1953.....	72.0	138.9	102.7	142.7
1954.....	78.3	127.7	88.0	112.4
1955.....	97.0	103.1	104.9	108.1
1956.....	100.1	99.9	113.5	113.4
1957.....	98.0	102.1	112.1	114.4
1958.....	97.2	102.9	93.8	96.5
1959.....	105.5	94.8	94.1	89.2
1960.....	112.5	88.9	94.7	84.2
1961.....	124.8	80.2	91.7	73.5
1962.....	137.3	72.8	96.0	69.9
1963.....	151.5	66.0	104.2	68.8
1964.....	162.6	61.5	110.6	68.0
1965.....	174.7	56.6	116.3	65.8
1966.....	187.3	53.4	121.2	64.7
1967.....	190.4	52.5	125.5	65.9
1968 ¹	195.6	51.1	123.8	63.3
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	6.6	-6.2	-0.2	-6.4
1957-68	7.6	-7.0	2.5	-4.7

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 17. BITUMINOUS COAL AND LIGNITE MINING SIC 12
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	40.9	47.3	244.4	211.3	88.8	217.0	187.6
1947.....	61.8	53.9	161.8	185.5	141.8	229.5	263.1
1948.....	57.7	53.7	173.4	186.1	134.8	233.8	250.8
1949.....	47.1	56.6	212.2	176.8	98.4	208.8	174.0
1950.....	59.7	61.9	167.5	161.5	116.1	194.5	187.5
1951.....	61.1	61.5	163.7	162.5	120.0	196.4	195.0
1952.....	61.3	65.2	163.2	153.5	104.9	171.2	161.0
1953.....	68.4	70.5	146.2	141.8	102.7	150.1	145.6
1954.....	75.3	81.9	132.8	122.0	88.0	116.9	107.4
1955.....	93.6	88.2	106.9	113.3	104.9	112.1	118.9
1956.....	97.3	91.2	102.8	109.7	113.5	116.7	124.5
1957.....	96.3	93.3	103.8	107.2	112.1	116.4	120.2
1958.....	98.0	103.5	102.0	96.6	93.8	95.7	90.6
1959.....	107.1	105.5	93.4	94.8	94.1	87.9	89.2
1960.....	114.1	111.5	87.6	89.3	94.7	83.0	84.6
1961.....	126.3	123.6	79.2	80.9	91.7	72.6	74.2
1962.....	137.5	130.8	72.7	76.5	96.0	69.8	73.4
1963.....	150.1	135.7	66.6	73.7	104.2	69.4	76.8
1964.....	161.5	144.4	61.9	69.3	110.6	68.5	76.6
1965.....	176.5	154.2	56.7	64.8	116.3	65.9	75.4
1966.....	188.8	162.5	53.0	61.6	121.2	64.2	74.6
1967.....	191.6	164.9	52.2	60.6	125.5	65.5	76.1
1968 ²	198.4	173.6	50.4	57.6	123.8	62.4	71.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	7.1	6.2	-6.6	-5.9	-0.2	-6.8	-6.0
1957-68	7.6	5.8	-7.1	-5.5	2.5	-4.7	-3.1

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 18. BITUMINOUS COAL AND LIGNITE MINING SIC 12
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER NON- PRODUCTION WORKER	UNIT LABOR REQUIREMENTS IN TERMS OF NON- PRODUCTION WORKERS	RELATED DATA	
			OUTPUT ¹	NON- PRODUCTION WORKERS
1939.....	106.2	94.1	88.8	83.6
1947.....	134.4	74.4	141.8	105.5
1948.....	121.1	82.6	134.8	111.3
1949.....	89.4	111.9	98.4	110.1
1950.....	111.8	89.4	116.1	103.8
1951.....	117.5	85.1	120.0	102.1
1952.....	106.3	94.1	104.9	98.7
1953.....	115.8	86.4	102.7	88.7
1954.....	109.6	91.3	88.0	80.3
1955.....	132.8	75.3	104.9	79.0
1956.....	127.4	78.5	113.5	89.1
1957.....	112.6	88.8	112.1	99.6
1958.....	92.2	108.4	93.8	101.7
1959.....	95.7	104.5	94.1	98.3
1960.....	102.9	97.1	94.7	92.0
1961.....	115.5	86.6	91.7	79.4
1962.....	135.2	74.0	96.0	71.0
1963.....	162.1	61.7	104.2	64.3
1964.....	173.1	57.8	110.6	63.9
1965.....	178.6	56.0	116.3	65.1
1966.....	178.0	56.2	121.2	68.1
1967.....	183.2	54.6	125.5	68.5
1968 ²	178.6	56.0	123.8	69.3
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	2.4	-2.3	-0.2	-2.5
1957-68	7.2	-6.7	2.5	-4.3

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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 19. CANNING AND PRESERVING SIC 203
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	(¹)	(¹)	(¹)	(¹)	43.9	(¹)	(¹)
1947.....	66.3	65.3	150.9	153.1	70.1	105.8	107.3
1948.....	65.2	66.3	153.4	150.8	69.3	106.3	104.5
1949.....	70.8	71.5	141.3	139.8	71.6	101.2	100.1
1950.....	78.7	78.8	127.0	126.9	76.6	97.3	97.2
1951.....	83.7	82.0	119.5	122.0	87.0	104.0	106.1
1952.....	82.2	81.5	121.7	122.7	83.6	101.7	102.6
1953.....	82.6	82.7	121.1	121.0	87.7	106.2	106.1
1954.....	88.1	88.9	113.5	112.5	88.6	100.6	99.7
1955.....	91.0	92.2	109.8	108.4	92.5	101.6	100.3
1956.....	99.2	98.3	100.8	101.7	103.4	104.2	105.2
1957.....	99.5	99.7	100.5	100.3	99.1	99.6	99.4
1958.....	98.9	98.1	101.1	101.9	97.6	98.7	99.5
1959.....	101.7	102.3	98.4	97.8	103.4	101.7	101.1
1960.....	108.1	108.3	92.5	92.3	109.6	101.4	101.2
1961.....	113.9	115.6	87.8	86.5	117.1	102.8	101.3
1962.....	117.1	116.9	85.4	85.5	123.0	105.0	105.2
1963.....	117.2	117.1	85.3	85.4	121.1	103.3	103.4
1964.....	124.6	123.7	80.2	80.8	129.5	103.9	104.7
1965.....	132.1	130.2	75.7	76.8	140.8	106.6	108.1
1966.....	130.0	128.1	76.9	78.1	146.8	112.9	114.6
1967 ²	133.4	135.9	75.0	73.6	152.1	114.0	111.9
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.6	3.6	-3.5	-3.5	3.9	0.3	0.3
1957-67	3.4	3.3	-3.3	-3.2	4.7	1.3	1.3

¹ Not available.

² Preliminary.

Source: Output based on data from National Cannery Association, U.S. Department of the Interior, 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 20. CANNING AND PRESERVING SIC 203
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	52.8	55.8	189.3	179.3	43.9	83.1	78.7
1947.....	62.9	61.9	158.9	161.6	70.1	111.4	113.3
1948.....	62.4	63.5	160.3	157.4	69.3	111.1	109.1
1949.....	68.3	68.9	146.5	145.1	71.6	104.9	103.9
1950.....	76.2	76.1	131.2	131.3	76.6	100.5	100.6
1951.....	80.6	78.6	124.1	127.2	87.0	108.0	110.7
1952.....	79.6	78.8	125.6	126.9	83.6	105.0	106.1
1953.....	80.1	79.9	124.9	125.1	87.7	109.5	109.7
1954.....	85.5	86.4	116.9	115.8	88.6	103.6	102.6
1955.....	88.9	90.0	112.5	111.1	92.5	104.1	102.8
1956.....	96.8	95.7	103.3	104.5	103.4	106.8	108.1
1957.....	98.6	98.7	101.4	101.3	99.1	100.5	100.4
1958.....	99.4	98.5	100.6	101.5	97.6	98.2	99.1
1959.....	102.1	102.8	98.0	97.3	103.4	101.3	100.6
1960.....	108.4	108.5	92.2	92.2	109.6	101.1	101.0
1961.....	114.6	116.2	87.3	86.1	117.1	102.2	100.8
1962.....	117.7	116.3	85.0	86.0	123.0	104.5	105.8
1963.....	117.7	116.9	85.0	85.5	121.1	102.9	103.6
1964.....	124.8	123.2	80.2	81.2	129.5	103.8	105.1
1965.....	132.7	129.8	75.4	77.1	140.8	106.1	108.5
1966.....	130.3	127.3	76.8	78.5	146.8	112.7	115.3
1967 ²	134.8	137.0	74.2	73.0	152.1	112.8	111.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.9	3.9	-3.8	-3.8	3.9	0.0	0.0
1957-67	3.5	3.4	-3.3	-3.2	4.7	1.2	1.3

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Preliminary.

Source: Output based on data from National Canners Association, U.S. Department of the Interior, 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 21. CANNING AND PRESERVING SIC 203
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	43.9	(³)	(³)
1947.....	102.0	(96.8)	98.0	(103.3)	70.1	68.7	(72.4)
1948.....	93.1	(88.8)	107.4	(112.6)	69.3	74.4	(78.0)
1949.....	94.0	(91.2)	106.4	(109.6)	71.6	76.2	(78.5)
1950.....	101.3	(98.8)	98.7	(101.2)	76.6	75.6	(77.5)
1951.....	113.1	(109.4)	88.4	(91.4)	87.0	76.9	(79.5)
1952.....	104.9	(101.8)	95.3	(98.2)	83.6	79.7	(82.1)
1953.....	105.0	(102.5)	95.2	(97.6)	87.7	83.5	(85.6)
1954.....	109.7	(107.4)	91.2	(93.1)	88.6	80.8	(82.5)
1955.....	109.3	(107.9)	91.5	(92.6)	92.5	84.6	(85.7)
1956.....	119.4	(117.4)	83.8	(85.2)	103.4	86.6	(88.1)
1957.....	106.0	(105.4)	94.3	(94.9)	99.1	93.5	(94.0)
1958.....	95.4	(95.7)	104.8	(104.5)	97.6	102.3	(102.0)
1959.....	99.2	(99.4)	100.8	(100.6)	103.4	104.2	(104.0)
1960.....	105.9	(107.3)	94.4	(93.2)	109.6	103.5	(102.1)
1961.....	109.8	(112.9)	91.0	(88.6)	117.1	106.6	(103.7)
1962.....	113.8	(117.8)	87.9	(84.9)	123.0	108.1	(104.4)
1963.....	114.5	(118.6)	87.4	(84.3)	121.1	105.8	(102.1)
1964.....	123.3	(127.2)	81.1	(78.6)	129.5	105.0	(101.8)
1965.....	128.8	(133.5)	77.6	(74.9)	140.8	109.3	(105.5)
1966.....	128.3	(133.3)	77.9	(75.0)	146.8	114.4	(110.1)
1967 ⁴	125.8	(130.8)	79.5	(76.5)	152.1	120.9	(116.3)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.2	(1.7)	-1.2	(-1.6)	3.9	2.7	(2.2)
1957-67	2.9	(3.4)	-2.8	(-3.3)	4.7	1.7	(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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Not available.

⁴ Preliminary.

Source: Output based on data from National Cannery Association, U.S. Department of the Interior, 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 22. FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	(¹)	(¹)	(¹)	(¹)	88.7	(¹)	(¹)
1947.....	83.9	76.7	119.2	130.3	119.0	141.8	155.1
1948.....	(¹)	(¹)	(¹)	(¹)	108.6	(¹)	(¹)
1949.....	72.1	70.8	138.7	141.3	92.5	128.3	130.7
1950.....	72.2	72.5	138.4	138.0	89.3	123.6	123.2
1951.....	73.5	72.0	136.1	138.9	91.5	124.5	127.1
1952.....	73.3	70.4	136.5	142.0	91.2	124.5	129.5
1953.....	78.9	76.0	126.7	131.5	88.5	112.1	116.4
1954.....	85.3	84.0	117.2	119.0	88.5	103.7	105.3
1955.....	88.0	87.5	113.7	114.3	90.8	103.2	103.8
1956.....	92.2	91.9	108.4	108.8	92.4	100.2	100.5
1957.....	100.1	99.9	99.9	100.1	97.1	97.0	97.2
1958.....	100.2	101.8	99.8	98.2	101.2	101.0	99.4
1959.....	99.7	98.4	100.3	101.7	101.7	102.0	103.4
1960.....	106.3	103.3	94.1	96.8	103.6	97.5	100.3
1961.....	110.3	107.4	90.7	93.1	104.9	95.1	97.7
1962.....	114.5	110.5	87.4	95.5	105.3	92.0	95.3
1963.....	129.6	124.3	77.2	80.5	103.9	80.2	83.6
1964.....	133.3	129.0	75.0	77.5	104.4	78.3	80.9
1965.....	134.1	131.9	74.6	75.8	99.6	74.3	75.5
1966.....	139.5	137.2	71.7	72.9	100.3	71.9	73.1
1967.....	135.5	136.0	73.8	73.5	97.0	71.6	71.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.7	3.8	-3.6	-3.7	0.2	-3.2	-3.3
1957-67	4.0	3.9	-3.9	-3.8	-0.1	-4.0	-3.8

¹ Not available.

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 23. FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	74.4	78.0	134.5	128.2	88.7	119.3	113.7
1947.....	78.8	71.4	126.9	140.1	119.0	151.0	166.7
1948.....	(²)	(²)	(²)	(²)	108.6	(²)	(²)
1949.....	68.6	67.7	145.7	147.8	92.5	134.8	136.7
1950.....	69.0	69.8	145.0	143.3	89.3	129.5	128.0
1951.....	70.2	69.0	142.5	144.9	91.5	130.4	132.6
1952.....	71.0	68.1	140.8	146.8	91.2	128.4	133.9
1953.....	75.3	72.3	132.8	138.3	88.5	117.5	122.4
1954.....	84.3	82.8	118.6	120.8	88.5	105.0	106.9
1955.....	87.6	86.8	114.2	115.2	90.8	103.7	104.6
1956.....	91.3	91.1	109.5	109.7	92.4	101.2	101.4
1957.....	99.5	99.3	100.5	100.7	97.1	97.6	97.8
1958.....	100.7	102.8	99.3	97.2	101.2	100.5	98.4
1959.....	99.8	98.0	100.2	102.1	101.7	101.9	103.8
1960.....	108.3	103.6	92.4	96.5	103.6	95.7	100.0
1961.....	110.7	105.9	90.4	94.5	104.9	94.8	99.1
1962.....	113.8	107.8	87.8	92.8	105.3	92.5	97.7
1963.....	129.1	121.2	77.5	82.5	103.9	80.5	85.7
1964.....	133.5	126.9	74.9	78.8	104.4	78.2	82.3
1965.....	134.8	130.5	74.2	76.6	99.6	73.9	76.3
1966.....	139.5	134.8	71.7	74.2	100.3	71.9	74.4
1967.....	132.0	131.8	75.8	75.9	97.0	73.5	73.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.0	4.0	-3.9	-3.9	0.2	-3.5	-3.5
1957-67	3.9	3.6	-3.7	-3.5	-0.1	-3.8	-3.6

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Not available.

³ Preliminary.

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

TABLE 24. FLOUR AND OTHER GRAIN-MILL PRODUCTS SIC 2041
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	88.7	(³)	(³)
1947.....	102.0	(99.8)	98.1	(100.2)	119.0	116.7	(119.2)
1948.....	(³)	(³)	(³)	(³)	108.6	(³)	(³)
1949.....	83.6	(82.6)	119.6	(121.1)	92.5	110.6	(112.0)
1950.....	83.1	(82.4)	120.3	(121.4)	89.3	107.4	(108.4)
1951.....	84.4	(83.3)	118.5	(120.0)	91.5	108.4	(109.8)
1952.....	79.9	(78.8)	125.1	(126.9)	91.2	114.1	(115.7)
1953.....	91.0	(90.3)	109.9	(110.7)	88.5	97.3	(98.0)
1954.....	88.5	(88.1)	113.0	(113.6)	88.5	100.0	(100.5)
1955.....	89.3	(89.4)	112.0	(111.9)	90.8	101.7	(101.6)
1956.....	94.8	(94.6)	105.5	(105.7)	92.4	97.5	(97.7)
1957.....	102.1	(102.0)	97.9	(98.0)	97.1	95.1	(95.2)
1958.....	98.8	(98.8)	101.2	(101.2)	101.2	102.4	(102.4)
1959.....	99.2	(99.3)	100.8	(100.7)	101.7	102.5	(102.4)
1960.....	101.4	(102.5)	98.6	(97.6)	103.6	102.2	(101.1)
1961.....	109.5	(112.3)	91.3	(89.0)	104.9	95.8	(93.4)
1962.....	116.2	(120.1)	86.0	(83.3)	105.3	90.6	(87.7)
1963.....	130.9	(135.1)	76.4	(74.0)	103.9	79.4	(76.9)
1964.....	132.7	(136.5)	75.4	(73.3)	104.4	78.7	(76.5)
1965.....	132.3	(136.6)	75.6	(73.2)	99.6	75.3	(72.9)
1966.....	140.1	(145.4)	71.4	(68.8)	100.3	71.6	(69.0)
1967 ⁴	145.9	(151.3)	68.6	(66.1)	97.0	66.5	(64.1)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	2.8	(3.2)	-2.8	(-3.1)	0.2	-2.4	(-2.7)
1957-67	4.4	(4.9)	-4.2	(-4.6)	-0.1	-4.3	(-4.7)

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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 25. BEET SUGAR SIC 2063
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-67
(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER---		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	(¹)	(¹)	(¹)	(¹)	72.6	(¹)	(¹)
1947.....	59.3	60.2	168.7	166.1	77.2	130.2	128.2
1948.....	(¹)	(¹)	(¹)	(¹)	57.5	(¹)	(¹)
1949.....	60.4	66.9	165.4	149.5	65.1	107.7	97.3
1950.....	67.1	73.7	149.0	135.6	82.3	122.6	111.6
1951.....	57.8	63.5	172.9	157.5	65.0	112.4	102.4
1952.....	60.7	65.9	164.7	151.8	62.3	102.6	94.6
1953.....	69.0	72.7	145.0	137.5	75.1	108.9	103.3
1954.....	76.4	81.6	131.0	122.5	81.7	107.0	100.1
1955.....	(¹)	(¹)	(¹)	(¹)	74.6	(¹)	(¹)
1956.....	(¹)	(¹)	(¹)	(¹)	85.1	(¹)	(¹)
1957.....	(¹)	(¹)	(¹)	(¹)	95.0	(¹)	(¹)
1958.....	99.9	98.1	100.1	101.9	106.1	100.2	102.0
1959.....	102.5	103.7	97.5	96.5	104.9	102.3	101.2
1960.....	109.7	109.1	91.2	91.7	109.0	99.4	99.9
1961.....	101.6	105.0	98.4	95.2	109.0	107.3	103.8
1962.....	108.2	113.6	92.4	88.0	114.9	106.2	101.1
1963.....	122.0	130.0	82.0	76.9	133.8	109.7	102.9
1964.....	122.8	126.9	81.4	78.8	143.8	117.1	113.3
1965.....	111.2	124.0	89.9	80.6	132.7	119.3	107.0
1966.....	112.4	128.2	89.0	78.0	128.8	114.6	100.5
1967 ²	109.7	124.0	91.2	80.6	121.4	110.7	97.9
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.2	4.3	-4.0	-4.1	4.2	-0.2	-0.3
1957-67	1.4	3.0	-1.3	-2.9	3.2	1.8	0.1

¹ Not available.

² Preliminary.

Source: Output based on data from the Agricultural Stabilization and Conservation 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.

TABLE 26. BEET SUGAR SIC 2063
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	64.1	65.8	155.9	152.1	72.6	113.2	110.4
1947.....	60.0	61.2	166.6	163.5	77.2	128.6	126.2
1948.....	(²)	(²)	(²)	(²)	57.5	(²)	(²)
1949.....	60.3	67.7	165.9	147.6	65.1	108.0	96.1
1950.....	67.7	75.4	147.6	132.7	82.3	121.5	109.2
1951.....	58.8	65.3	170.0	153.2	65.0	110.5	99.6
1952.....	63.8	69.8	156.7	143.2	62.3	97.6	89.2
1953.....	70.6	74.8	141.7	133.7	75.1	106.4	100.4
1954.....	78.4	84.3	127.5	118.6	81.7	104.2	96.9
1955.....	(²)	(²)	(²)	(²)	74.6	(²)	(²)
1956.....	(²)	(²)	(²)	(²)	85.1	(²)	(²)
1957.....	(²)	(²)	(²)	(²)	95.0	(²)	(²)
1958.....	100.2	98.1	99.8	101.9	100.1	99.9	102.0
1959.....	102.6	103.9	97.4	96.3	104.9	102.2	101.0
1960.....	109.3	108.7	91.5	92.0	109.0	99.7	100.3
1961.....	101.4	105.0	98.6	95.2	109.0	107.5	103.8
1962.....	107.3	113.1	93.2	88.4	114.9	107.1	101.6
1963.....	120.0	128.7	83.3	77.7	133.8	111.5	104.0
1964.....	121.0	125.5	82.6	79.7	143.8	118.8	114.6
1965.....	109.5	123.4	91.3	81.0	132.7	121.2	107.5
1966.....	114.0	131.3	87.7	76.2	128.8	113.0	98.1
1967 ³	109.9	124.6	91.0	80.2	121.4	110.5	97.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.1	4.1	-3.9	-4.0	4.2	0.0	-0.1
1957-67	1.4	3.1	-1.3	-3.0	3.2	1.8	0.0

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Not available.

³ Preliminary.

Source: Output based on data from the Agricultural Stabilization and Conservation Service, U.S. Department of Agriculture, 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.

TABLE 27. BEET SUGAR SIC 2063
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	72.6	(³)	(³)
1947.....	54.4	(53.3)	183.7	(187.6)	77.2	141.8	(144.8)
1948.....	(³)	(³)	(³)	(³)	57.5	(³)	(³)
1949.....	61.5	(60.7)	162.5	(164.7)	65.1	105.8	(107.2)
1950.....	62.9	(62.3)	158.9	(160.5)	82.3	130.8	(132.1)
1951.....	51.8	(51.1)	193.2	(195.5)	65.0	125.6	(127.1)
1952.....	44.9	(44.3)	222.8	(225.8)	62.3	138.8	(140.7)
1953.....	59.1	(58.8)	169.1	(170.2)	75.1	127.0	(127.8)
1954.....	64.5	(64.2)	155.0	(155.7)	81.7	126.6	(127.2)
1955.....	(³)	(³)	(³)	(³)	74.6	(³)	(³)
1956.....	(³)	(³)	(³)	(³)	85.1	(³)	(³)
1957.....	(³)	(³)	(³)	(³)	95.0	(³)	(³)
1958.....	97.5	(97.5)	102.6	(102.6)	100.1	102.7	(102.7)
1959.....	101.5	(101.5)	98.5	(98.5)	104.9	103.3	(103.3)
1960.....	111.9	(113.1)	89.4	(88.4)	109.0	97.4	(96.4)
1961.....	102.8	(105.4)	97.2	(94.9)	109.0	106.0	(103.4)
1962.....	115.0	(118.7)	86.9	(84.2)	114.9	99.9	(96.8)
1963.....	138.8	(143.3)	72.0	(69.8)	133.8	96.4	(93.4)
1964.....	136.8	(140.7)	73.1	(71.1)	143.8	105.1	(102.2)
1965.....	126.0	(130.1)	79.4	(76.9)	132.7	105.3	(102.0)
1966.....	102.4	(106.1)	97.7	(94.3)	128.8	125.8	(121.4)
1967 ⁴	108.8	(112.7)	91.9	(88.7)	121.4	111.6	(107.7)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	5.3	(5.6)	-5.0	(-5.3)	4.2	- 1.2	(-1.5)
1957-67	1.6	(2.1)	-1.6	(-2.0)	3.2	1.5	(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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Not available.

⁴ Preliminary.

Source: Output based on data from the Agricultural Stabilization and Conservation 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.

TABLE 28.CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2071
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
 ALL EMPLOYEES, 1939-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	(¹)	(¹)	(¹)	(¹)	58.0	(¹)	(¹)
1947.....	77.6	75.2	128.9	133.0	88.7	114.3	118.0
1948.....	(¹)	(¹)	(¹)	(¹)	88.7	(¹)	(¹)
1949.....	73.8	72.0	135.5	138.9	85.4	115.7	118.6
1950.....	71.8	70.6	139.3	141.7	88.5	123.3	125.4
1951.....	84.3	81.4	118.6	122.8	85.9	101.9	105.5
1952.....	84.2	80.4	118.7	124.4	88.6	105.2	110.2
1953.....	86.2	85.2	116.1	117.4	89.0	103.3	104.5
1954.....	85.3	85.1	117.2	117.5	86.7	101.6	101.9
1955.....	87.6	87.8	114.1	113.9	90.8	103.6	103.4
1956.....	89.5	88.7	111.7	112.7	93.8	104.8	105.7
1957.....	96.1	96.4	104.1	103.8	97.7	101.7	101.4
1958.....	99.9	100.7	100.1	99.3	100.4	100.5	99.7
1959.....	104.2	103.0	96.0	97.1	101.9	97.8	98.9
1960.....	108.8	107.7	91.9	92.8	106.1	97.5	98.5
1961.....	108.7	107.5	92.0	93.0	107.5	98.9	100.0
1962.....	110.8	109.5	90.3	91.4	110.0	99.3	100.5
1963.....	119.9	121.0	83.4	82.7	115.3	96.2	95.3
1964.....	121.9	123.5	82.0	81.0	120.8	99.1	97.8
1965.....	127.7	128.7	78.3	77.7	125.9	98.6	97.8
1966.....	131.2	134.1	76.2	74.6	132.1	100.7	98.5
1967 ²	136.5	138.5	73.3	72.2	138.1	101.2	99.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.3	3.5	-3.1	-3.4	2.3	-0.8	-1.0
1957-67	3.5	3.7	-3.4	-3.6	3.5	0.0	-0.2

¹ Not available.

² Preliminary.

Source: Output based on data from the Business and Defense Services Administration 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 29.CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2071
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	61.9	62.7	161.6	159.5	58.0	93.7	92.5
1947.....	72.6	70.2	137.8	142.5	88.7	122.2	126.4
1948.....	(²)	(²)	(²)	(²)	88.7	(²)	(²)
1949.....	72.0	70.1	138.9	142.6	85.4	118.6	121.8
1950.....	73.0	71.7	136.9	139.5	88.5	121.2	123.5
1951.....	83.0	79.8	120.5	125.4	85.9	103.5	107.7
1952.....	84.5	80.0	118.4	125.1	88.6	104.9	110.8
1953.....	83.3	82.3	120.0	121.6	89.0	106.8	108.2
1954.....	83.4	83.0	120.0	120.4	86.7	104.0	104.4
1955.....	87.8	88.0	113.9	113.7	90.8	103.4	103.2
1956.....	91.2	90.4	109.6	110.7	93.8	102.8	103.8
1957.....	97.4	97.8	102.7	102.3	97.7	100.3	99.9
1958.....	98.7	99.7	101.3	100.3	100.4	101.7	100.7
1959.....	104.0	102.5	96.2	97.5	101.9	98.0	99.4
1960.....	109.0	107.4	91.7	93.1	106.1	97.3	98.8
1961.....	108.6	106.5	92.1	93.9	107.5	99.0	100.9
1962.....	111.0	108.6	90.1	92.1	110.0	99.1	101.3
1963.....	116.8	117.3	85.6	85.3	115.3	98.7	98.3
1964.....	118.4	119.6	84.4	83.6	120.8	102.0	101.0
1965.....	123.1	123.6	81.3	80.9	125.9	102.3	101.9
1966.....	126.8	129.3	78.9	77.4	132.1	104.2	102.2
1967 ³	131.8	133.2	75.9	75.1	138.1	104.8	103.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.2	3.5	-3.1	-3.3	2.3	-0.7	-1.0
1957-67	3.0	3.2	-2.9	-3.1	3.5	0.5	0.3

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Not available.

³ Preliminary.

Source: Output based on data from the Business and Defense Services Administration 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.

TABLE 30. CANDY AND OTHER CONFECTIONERY PRODUCTS SIC 2071
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	58.0	(³)	(³)
1947.....	109.5	(107.1)	91.3	(93.3)	88.7	81.0	(82.8)
1948.....	(³)	(³)	(³)	(³)	88.7	(³)	(³)
1949.....	82.3	(81.2)	121.5	(123.2)	85.4	103.8	(105.2)
1950.....	66.9	(66.2)	149.4	(151.0)	88.5	132.2	(133.6)
1951.....	90.6	(89.5)	110.4	(111.8)	85.9	94.8	(96.0)
1952.....	83.3	(82.1)	120.1	(121.8)	88.6	106.4	(107.9)
1953.....	100.6	(99.9)	99.4	(100.1)	89.0	88.5	(89.1)
1954.....	95.0	(94.7)	105.3	(105.7)	86.7	91.3	(91.6)
1955.....	87.1	(87.2)	114.8	(114.6)	90.8	104.2	(104.1)
1956.....	82.7	(82.5)	120.9	(121.2)	93.8	113.4	(113.7)
1957.....	90.7	(90.6)	110.2	(110.3)	97.7	107.7	(107.8)
1958.....	105.1	(105.1)	95.1	(95.1)	100.4	95.5	(95.5)
1959.....	105.2	(105.3)	95.1	(95.0)	101.9	96.9	(96.8)
1960.....	107.7	(108.9)	92.8	(91.8)	106.1	98.5	(97.4)
1961.....	109.0	(111.9)	91.7	(89.4)	107.5	98.6	(96.1)
1962.....	109.9	(113.5)	91.0	(88.1)	110.0	100.1	(96.9)
1963.....	134.7	(139.4)	74.2	(71.7)	115.3	85.6	(82.7)
1964.....	138.9	(143.1)	72.0	(69.9)	120.8	87.0	(84.4)
1965.....	151.1	(156.4)	66.2	(63.9)	125.9	83.3	(80.5)
1966.....	153.2	(159.2)	65.3	(62.8)	132.1	86.2	(83.0)
1967.....	160.2	(166.4)	62.4	(60.1)	138.1	86.2	(83.0)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.3	(3.6)	-3.2	(-3.5)	2.3	-0.8	(-1.1)
1957-67	5.8	(6.2)	-5.4	(-5.9)	3.5	-2.1	(-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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Not available.

⁴ Preliminary.

Source: Output based on data from the Business and Defense Services Administration 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 31. MALT LIQUORS SIC 2082
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	(¹)	(¹)	(¹)	(¹)	50.8	(¹)	(¹)
1947.....	80.2	71.5	124.7	139.8	90.4	112.7	126.4
1948.....	(¹)	(¹)	(¹)	(¹)	87.9	(¹)	(¹)
1949.....	83.3	78.9	120.1	126.8	89.5	107.5	113.5
1950.....	81.4	78.2	122.8	127.8	90.3	110.9	115.4
1951.....	83.1	79.4	120.3	125.9	93.1	112.0	117.2
1952.....	85.6	82.5	116.9	121.3	94.9	110.9	115.1
1953.....	84.6	81.9	118.3	122.0	98.0	115.9	119.6
1954.....	85.8	84.1	116.6	118.9	95.3	111.1	113.3
1955.....	88.8	87.7	112.6	114.0	97.6	109.9	111.3
1956.....	90.7	89.3	110.3	112.0	98.4	108.5	110.2
1957.....	92.8	92.2	107.7	108.5	98.1	105.7	106.4
1958.....	101.5	102.0	98.5	98.1	99.2	97.7	97.3
1959.....	106.4	106.7	94.0	93.7	102.8	96.6	96.3
1960.....	109.3	110.9	91.5	90.2	103.9	95.1	93.7
1961.....	114.3	116.3	87.5	86.0	106.1	92.8	91.2
1962.....	120.9	122.3	82.7	81.8	108.7	89.9	88.9
1963.....	132.9	134.4	75.2	74.4	113.4	85.3	84.4
1964.....	141.8	143.1	70.5	69.9	119.5	84.3	83.5
1965.....	148.7	149.5	67.2	66.9	122.4	82.3	81.9
1966.....	155.7	156.1	64.2	64.1	128.3	82.4	82.2
1967 ²	162.5	165.6	61.5	60.4	132.8	81.7	80.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.9	4.4	-3.7	-4.2	1.9	-1.9	-2.4
1957-67	5.8	5.9	-5.5	-5.6	3.2	-2.5	-2.6

¹ Not available.

² 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 32. MALT LIQUORS SIC 2082
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	57.0	55.3	175.4	180.7	50.8	89.1	91.8
1947.....	75.1	64.7	133.1	154.5	90.4	120.3	139.7
1948.....	(²)	(²)	(²)	(²)	87.9	(²)	(²)
1949.....	81.8	76.1	122.2	131.4	89.5	109.4	117.6
1950.....	82.3	77.8	121.5	128.5	90.3	109.7	116.0
1951.....	82.9	78.0	120.6	128.1	93.1	112.3	119.3
1952.....	84.7	80.7	118.1	123.9	94.9	112.1	117.6
1953.....	84.3	80.7	118.7	123.9	98.0	116.3	121.4
1954.....	87.0	84.6	115.0	118.2	95.3	109.6	112.6
1955.....	89.1	87.2	112.3	114.7	97.6	109.6	111.9
1956.....	91.5	89.5	109.2	111.7	98.4	107.5	109.9
1957.....	93.9	93.1	106.5	107.4	98.1	104.5	105.4
1958.....	101.4	102.1	98.6	98.0	99.2	97.8	97.2
1959.....	105.2	105.5	95.0	94.7	102.8	97.7	97.4
1960.....	107.0	108.9	93.5	91.8	103.9	97.1	95.4
1961.....	112.8	114.3	88.7	87.5	106.1	94.1	92.8
1962.....	119.2	119.3	83.9	83.8	108.7	91.2	91.1
1963.....	130.5	130.6	76.6	76.5	113.4	86.9	86.8
1964.....	139.6	139.8	71.6	71.5	119.5	85.6	85.5
1965.....	148.2	146.8	67.5	68.1	122.4	82.6	83.4
1966.....	156.5	154.2	63.9	64.8	128.3	82.0	83.2
1967 ³	159.0	160.6	62.9	62.3	132.8	83.5	82.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.9	4.5	-3.8	-4.3	1.9	-2.0	-2.5
1957-67	5.7	5.6	-5.4	-5.3	3.2	-2.4	-2.3

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 33. MALT LIQUORS SIC 2082
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)							
YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	50.8	(³)	(³)
1947.....	92.8	(90.9)	107.7	(110.1)	90.4	97.4	(99.5)
1948.....	(³)	(³)	(³)	(³)	87.9	(³)	(³)
1949.....	86.3	(85.2)	115.9	(117.3)	89.5	103.7	(105.0)
1950.....	79.8	(79.0)	125.4	(126.6)	90.3	113.2	(114.3)
1951.....	83.5	(82.5)	119.8	(121.3)	93.1	111.5	(112.9)
1952.....	87.5	(86.4)	114.2	(115.8)	94.9	108.4	(109.9)
1953.....	85.1	(84.6)	117.4	(118.2)	98.0	115.1	(115.8)
1954.....	83.5	(83.2)	119.8	(120.3)	95.3	114.2	(114.6)
1955.....	88.5	(88.6)	113.0	(112.9)	97.6	110.3	(110.2)
1956.....	89.0	(88.9)	112.3	(112.5)	98.4	110.5	(110.7)
1957.....	90.6	(90.5)	110.4	(110.5)	98.1	108.3	(108.4)
1958.....	101.7	(101.8)	98.3	(98.2)	99.2	97.5	(97.4)
1959.....	109.0	(109.1)	91.7	(91.6)	102.8	94.3	(94.2)
1960.....	114.1	(115.3)	87.7	(86.7)	103.9	91.1	(90.1)
1961.....	117.5	(120.4)	85.1	(83.0)	106.1	90.3	(88.1)
1962.....	124.7	(128.6)	80.2	(77.7)	108.7	87.2	(84.5)
1963.....	138.1	(142.6)	72.4	(70.1)	113.4	82.1	(79.5)
1964.....	146.3	(150.3)	68.4	(66.5)	119.5	81.7	(79.5)
1965.....	150.0	(154.9)	66.7	(64.5)	122.4	81.6	(79.0)
1966.....	154.2	(160.0)	64.8	(62.5)	128.3	83.2	(80.2)
1967 ⁴	170.0	(176.4)	58.8	(56.7)	132.8	78.1	(75.3)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.8	(4.1)	-3.7	(-4.0)	1.9	-1.9	(-2.2)
1957-67	6.0	(6.5)	-5.7	(-6.1)	3.2	-2.7	(-3.1)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 34. TOBACCO PRODUCTS-TOTAL¹ SIC 211, 212, 213
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	49.7	(²)	201.0	(²)	68.0	136.7	(²)
1947.....	68.6	67.7	145.8	147.6	83.8	122.2	123.7
1948.....	72.8	73.3	137.4	136.4	86.9	119.4	118.5
1949.....	73.2	75.2	136.7	133.1	85.3	116.6	113.5
1950.....	78.2	81.2	127.9	123.1	85.7	109.6	105.5
1951.....	81.6	84.0	122.5	119.0	89.4	109.5	106.4
1952.....	84.5	86.2	118.4	116.0	92.9	110.0	107.8
1953.....	82.6	83.9	121.1	119.1	92.5	112.0	110.2
1954.....	83.3	84.4	120.1	118.4	90.1	108.2	106.7
1955.....	83.5	84.2	119.7	118.8	90.9	108.8	108.0
1956.....	88.4	89.4	113.1	111.8	91.5	103.5	102.3
1957.....	92.7	93.7	107.8	106.8	94.4	101.8	100.8
1958.....	100.9	100.7	99.1	99.3	99.8	98.9	99.1
1959.....	106.4	105.7	93.9	94.6	105.7	99.3	100.0
1960.....	113.2	112.9	88.4	88.6	108.3	95.7	95.9
1961.....	118.0	116.8	84.8	85.6	107.7	91.3	92.2
1962.....	121.8	120.3	82.1	83.1	107.9	88.6	89.7
1963.....	128.4	126.9	77.9	78.8	110.3	85.9	86.9
1964.....	133.3	129.4	75.0	77.3	119.3	89.5	92.2
1965.....	132.0	133.7	75.7	74.8	115.4	87.4	86.3
1966.....	133.5	133.7	74.9	74.8	112.7	84.4	84.3
1967.....	131.6	131.0	76.0	76.3	112.4	85.4	85.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.7	3.5	-3.6	-3.4	1.8	-1.9	-1.7
1957-67	3.6	3.6	-3.5	-3.5	1.7	-1.9	-1.8

¹ Includes industries 211, 212, and 213 in the Standard Industrial Classification.

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 35. TOBACCO PRODUCTS-TOTAL¹ SIC 211, 212, 213
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-67

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ²	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	49.8	53.3	200.7	187.5	68.0	136.5	127.5
1947.....	67.3	66.6	148.6	150.1	83.8	124.5	125.8
1948.....	71.5	72.2	139.9	138.6	86.9	121.6	120.4
1949.....	71.9	74.1	139.2	134.9	85.3	118.7	115.1
1950.....	77.0	80.4	129.9	124.4	85.7	111.3	106.6
1951.....	80.8	83.5	123.8	119.8	89.4	110.7	107.1
1952.....	83.5	85.5	119.8	117.0	92.9	111.3	108.7
1953.....	82.0	83.5	121.9	119.8	92.5	112.8	110.8
1954.....	82.3	83.5	121.5	119.8	90.1	109.5	107.9
1955.....	82.6	83.2	121.1	120.1	90.9	110.1	109.2
1956.....	87.4	88.6	114.4	112.9	91.5	104.7	103.3
1957.....	91.9	92.8	108.8	107.7	94.4	102.7	101.7
1958.....	100.9	100.7	99.1	99.3	99.8	98.9	99.1
1959.....	107.4	106.6	93.1	93.9	105.7	98.4	99.2
1960.....	114.4	114.0	87.4	87.7	108.3	94.7	95.0
1961.....	120.1	118.9	83.3	84.1	107.7	89.7	90.6
1962.....	124.7	123.2	80.2	81.2	107.9	86.5	87.6
1963.....	130.8	129.3	76.4	77.3	110.3	84.3	85.3
1964.....	134.8	130.7	74.2	76.5	119.3	88.5	91.3
1965.....	134.2	136.2	74.5	73.4	115.4	86.0	84.7
1966.....	135.9	136.1	73.6	73.5	112.7	82.9	82.8
1967 ³	135.9	135.3	73.6	73.9	112.4	82.7	83.1
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.9	3.8	-3.8	-3.6	1.8	-2.1	-1.9
1957-67	3.9	3.9	-3.8	-3.7	1.7	-2.1	-2.1

¹ Includes industries 211, 212, and 213 in the Standard Industrial Classification.

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 36. TOBACCO PRODUCTS-TOTAL¹ SIC 211, 212, 213
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ²	OUTPUT ³	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ²
1939.....	49.2	(⁴)	203.4	(⁴)	68.0	138.3	(⁴)
1947.....	84.6	(82.7)	118.1	(120.9)	83.8	99.0	(101.3)
1948.....	89.6	(87.5)	111.6	(114.3)	86.9	97.0	(99.3)
1949.....	89.7	(88.5)	111.5	(113.0)	85.3	95.1	(96.4)
1950.....	92.6	(91.8)	107.9	(109.0)	85.7	92.5	(93.4)
1951.....	91.5	(90.4)	109.3	(110.6)	89.4	97.7	(98.9)
1952.....	96.3	(94.9)	103.9	(105.4)	92.9	96.5	(97.9)
1953.....	89.6	(89.0)	111.6	(112.3)	92.5	103.2	(103.9)
1954.....	95.5	(95.1)	104.7	(105.1)	90.1	94.3	(94.7)
1955.....	95.2	(95.2)	105.1	(105.1)	90.9	95.5	(95.5)
1956.....	100.4	(100.2)	99.6	(99.8)	91.5	91.1	(91.3)
1957.....	103.1	(102.9)	97.0	(97.1)	94.4	91.6	(91.7)
1958.....	100.2	(100.2)	99.8	(99.8)	99.8	99.6	(99.6)
1959.....	97.1	(97.2)	103.0	(102.9)	105.7	108.9	(108.8)
1960.....	102.8	(102.6)	97.3	(97.5)	108.3	105.4	(105.6)
1961.....	99.3	(99.2)	100.7	(100.8)	107.7	108.5	(108.6)
1962.....	97.4	(96.6)	102.7	(103.5)	107.9	110.8	(111.7)
1963.....	107.3	(106.5)	93.2	(93.9)	110.3	102.8	(103.6)
1964.....	119.7	(118.2)	83.6	(84.6)	119.3	99.7	(100.9)
1965.....	113.1	(112.3)	88.4	(89.1)	115.4	102.0	(102.8)
1966.....	112.6	(112.1)	88.8	(89.2)	112.7	100.1	(100.5)
1967.....	98.8	(98.5)	101.2	(101.5)	112.4	113.8	(114.1)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.2	(1.2)	-1.2	(-1.2)	1.8	0.6	(0.5)
1957-67	1.0	(0.9)	-1.0	(-0.9)	1.7	0.7	(0.7)

¹ Includes industries 211, 212, and 213 in the Standard Industrial Classification.

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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

⁴ Not available.

⁵ 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 Bureau of Labor Statistics, U.S. Department of Labor.

TABLE 37. CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 211, 213
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	53.0	(¹)	188.8	(¹)	55.3	104.4	(¹)
1947.....	84.7	84.1	118.0	118.9	82.2	97.0	97.7
1948.....	89.1	90.2	112.3	110.9	85.5	96.0	94.8
1949.....	89.6	92.6	111.6	108.0	85.1	95.0	91.9
1950.....	94.9	96.4	105.3	103.7	86.4	91.0	89.6
1951.....	99.9	101.0	100.1	99.0	90.5	90.6	89.6
1952.....	100.5	101.5	99.5	98.5	93.2	92.7	91.8
1953.....	95.3	97.4	105.0	102.6	90.6	95.1	93.0
1954.....	92.9	94.0	107.7	106.4	87.1	93.8	92.7
1955.....	93.4	92.9	107.1	107.6	89.3	95.6	96.1
1956.....	95.8	95.6	104.4	104.6	90.8	94.8	95.0
1957.....	98.1	98.2	101.9	101.8	94.3	96.1	96.0
1958.....	99.6	99.6	100.4	100.4	100.0	100.4	100.4
1959.....	102.2	102.0	97.8	98.0	105.7	103.4	103.6
1960.....	106.0	106.5	94.4	93.9	108.4	102.3	101.8
1961.....	108.6	108.6	92.1	92.1	110.7	101.9	101.9
1962.....	110.2	109.2	90.8	91.6	110.4	100.2	101.1
1963.....	114.8	114.0	87.1	87.7	113.7	99.0	99.7
1964.....	111.2	110.6	89.9	90.4	110.9	99.7	100.3
1965.....	110.6	114.3	90.4	87.5	111.6	100.9	97.6
1966.....	113.4	114.7	88.2	87.2	113.2	99.8	98.7
1967 ²	112.5	113.9	88.9	87.8	115.3	102.5	101.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.3	1.3	-1.3	-1.3	1.8	0.5	0.5
1957-67	1.5	1.6	-1.4	-1.6	1.6	0.1	0.0

¹ Not available.

² Preliminary.

Source: Output based on data from the Internal Revenue Service, U.S. Department of the Treasury, 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 38. CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 211, 213
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	54.6	58.3	183.2	171.4	55.3	101.3	94.8
1947.....	84.2	83.8	118.7	119.3	82.2	97.6	98.1
1948.....	88.3	89.8	113.2	111.3	85.5	96.8	95.2
1949.....	88.7	92.1	112.7	108.6	85.1	95.9	92.4
1950.....	94.5	96.2	105.8	103.9	86.4	91.4	89.8
1951.....	100.2	101.7	99.8	98.3	90.5	90.3	89.0
1952.....	101.0	102.3	99.0	97.7	93.2	92.3	91.1
1953.....	95.1	97.5	105.2	102.5	90.6	95.3	92.9
1954.....	92.3	93.5	108.4	107.0	87.1	94.4	93.2
1955.....	92.6	92.2	108.0	108.5	89.3	96.4	96.9
1956.....	94.8	94.6	105.5	105.7	90.8	95.8	96.0
1957.....	97.2	97.3	102.9	102.8	94.3	97.0	96.9
1958.....	99.4	99.5	100.6	100.5	100.0	100.6	100.5
1959.....	103.2	103.0	96.9	97.1	105.7	102.4	102.6
1960.....	107.2	107.8	93.3	92.8	108.4	101.1	100.6
1961.....	110.6	110.5	90.4	90.5	110.7	100.1	100.2
1962.....	113.2	112.0	88.3	89.3	110.4	97.5	98.6
1963.....	117.2	116.3	85.3	86.0	113.7	97.0	97.8
1964.....	113.4	112.6	88.2	88.8	110.9	97.8	98.5
1965.....	112.6	116.9	88.8	85.6	111.6	99.1	95.5
1966.....	116.2	117.7	86.0	85.0	113.2	97.4	96.2
1967 ²	115.8	117.3	86.4	85.3	115.3	99.6	98.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.5	1.5	-1.5	-1.5	1.8	0.3	0.3
1957-67	1.8	1.9	-1.7	-1.9	1.6	-0.2	-0.3

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² 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.

TABLE 39. CIGARETTES, CHEWING AND SMOKING TOBACCO SIC 211, 213
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	41.5	(³)	241.0	(³)	55.3	133.3	(³)
1947.....	89.7	(87.8)	111.4	(113.9)	82.2	91.6	(93.6)
1948.....	96.3	(94.0)	103.9	(106.4)	85.5	88.8	(91.0)
1949.....	98.6	(97.4)	101.4	(102.7)	85.1	86.3	(87.4)
1950.....	99.7	(98.5)	100.3	(101.5)	86.4	86.7	(87.7)
1951.....	96.3	(95.1)	103.9	(105.2)	90.5	94.0	(95.2)
1952.....	95.9	(94.5)	104.3	(105.8)	93.2	97.2	(98.6)
1953.....	97.0	(96.3)	103.1	(103.9)	90.6	93.4	(94.1)
1954.....	99.3	(98.9)	100.7	(101.1)	87.1	87.7	(88.1)
1955.....	101.2	(101.4)	98.8	(98.7)	89.3	88.2	(88.1)
1956.....	106.4	(106.2)	93.9	(94.2)	90.8	85.3	(85.5)
1957.....	107.0	(106.9)	93.4	(93.5)	94.3	88.1	(88.2)
1958.....	100.9	(100.9)	99.1	(99.1)	100.0	99.1	(99.1)
1959.....	93.7	(93.8)	106.7	(106.6)	105.7	112.8	(112.7)
1960.....	95.7	(95.8)	104.5	(104.4)	108.4	113.3	(113.2)
1961.....	93.7	(94.1)	106.7	(106.2)	110.7	118.1	(117.6)
1962.....	88.2	(88.2)	113.3	(113.3)	110.4	125.1	(125.1)
1963.....	96.3	(96.4)	103.9	(103.8)	113.7	118.1	(118.0)
1964.....	94.1	(93.8)	106.3	(106.6)	110.9	117.9	(118.2)
1965.....	94.6	(94.7)	105.7	(105.6)	111.6	118.0	(117.9)
1966.....	92.1	(92.6)	108.6	(108.0)	113.2	122.9	(122.3)
1967 ⁴	89.0	(89.4)	112.4	(111.8)	115.3	129.6	(128.9)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	-0.3	(-0.2)	0.3	(0.2)	1.8	2.1	(2.0)
1957-67	-1.1	(-1.1)	1.2	(1.1)	1.6	2.8	(2.7)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 40.CIGARS SIC 212
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	46.1	(¹)	217.1	(¹)	82.6	179.3	(¹)
1947.....	55.3	53.8	180.9	185.8	86.0	155.6	159.8
1948.....	59.1	58.6	169.2	170.5	88.9	150.4	151.6
1949.....	59.4	60.0	168.4	166.6	86.2	145.2	143.6
1950.....	63.7	67.0	157.1	149.2	85.5	134.3	127.6
1951.....	66.4	68.7	150.6	145.5	89.3	134.5	129.9
1952.....	70.4	71.8	142.1	139.2	93.4	132.7	130.0
1953.....	70.9	70.9	141.1	141.1	95.1	134.2	134.2
1954.....	73.7	74.3	135.6	134.6	93.8	127.2	126.3
1955.....	73.7	74.9	135.6	133.6	93.2	126.4	124.5
1956.....	80.7	82.6	123.9	121.1	92.8	115.0	112.4
1957.....	86.8	88.2	115.2	113.4	94.8	109.2	107.5
1958.....	102.7	102.3	97.4	97.8	99.6	97.0	97.4
1959.....	112.6	111.0	88.8	90.1	105.6	93.8	95.1
1960.....	123.8	122.7	80.8	81.5	107.7	87.0	87.8
1961.....	132.2	130.0	75.7	76.9	102.3	77.4	78.7
1962.....	140.6	139.2	71.1	71.8	102.9	73.2	73.9
1963.....	151.1	149.8	66.2	66.8	103.5	68.5	69.1
1964.....	177.1	166.6	56.5	60.0	134.6	76.0	80.8
1965.....	175.1	172.6	57.1	57.9	121.7	69.5	70.5
1966.....	172.5	171.7	58.0	58.2	110.4	64.0	64.3
1967 ²	168.2	164.0	59.5	61.0	105.6	62.8	64.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	6.7	6.5	-6.3	-6.1	1.6	-4.8	-4.6
1957-67	7.1	6.8	-6.6	-6.4	1.7	-5.1	-4.8

¹ Not available.

² 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 41.CIGARS SIC 212
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	45.4	48.0	220.3	208.4	82.6	182.0	172.1
1947.....	54.0	52.6	185.1	190.2	86.0	159.2	163.6
1948.....	57.9	57.4	172.8	174.1	88.9	153.6	154.8
1949.....	58.2	59.0	171.8	169.6	86.2	148.1	146.2
1950.....	62.5	66.0	160.1	151.6	85.5	136.9	129.6
1951.....	65.2	67.7	153.4	147.8	89.3	137.0	132.0
1952.....	68.8	70.4	145.4	142.1	93.4	135.8	132.7
1953.....	70.2	70.3	142.4	142.3	95.1	135.4	135.3
1954.....	72.7	73.3	137.5	136.5	93.8	129.0	128.0
1955.....	72.9	74.0	137.2	135.1	93.2	127.9	125.9
1956.....	79.9	81.8	125.1	122.2	92.8	116.1	113.4
1957.....	86.0	87.5	116.2	114.2	94.8	110.2	108.3
1958.....	103.0	102.5	97.1	97.6	99.6	96.7	97.2
1959.....	113.4	111.7	88.2	89.5	105.6	93.1	94.5
1960.....	124.4	123.4	80.4	81.1	107.7	86.6	87.3
1961.....	134.3	132.2	74.5	75.7	102.3	76.2	77.4
1962.....	142.7	141.7	70.1	70.6	102.9	72.1	72.6
1963.....	152.7	151.5	65.5	66.0	103.5	67.8	68.3
1964.....	175.9	165.0	56.8	60.6	134.6	76.5	81.6
1965.....	176.1	174.1	56.8	57.4	121.7	69.1	69.9
1966.....	172.0	171.7	58.2	58.2	110.4	64.2	64.3
1967 ²	173.7	169.5	57.6	59.0	105.6	60.8	62.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	6.9	6.7	-6.5	-6.3	1.6	-5.0	-4.8
1957-67	7.3	7.0	-6.8	-6.5	1.7	-5.2	-4.9

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² 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.

TABLE 42.CIGARS SIC 212
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	56.3	(³)	177.6	(³)	82.6	146.7	(³)
1947.....	77.2	(75.5)	129.5	(132.4)	86.0	111.4	(113.9)
1948.....	80.3	(78.4)	124.5	(127.6)	88.9	110.7	(113.4)
1949.....	78.4	(77.4)	127.5	(129.1)	86.2	109.9	(111.3)
1950.....	83.7	(82.8)	119.5	(120.7)	85.5	102.2	(103.2)
1951.....	86.0	(85.0)	116.2	(117.7)	89.3	103.8	(105.1)
1952.....	97.9	(96.5)	102.1	(103.6)	93.4	95.4	(96.8)
1953.....	79.4	(78.9)	125.9	(126.8)	95.1	119.7	(120.6)
1954.....	89.0	(88.7)	112.4	(112.8)	93.8	105.4	(105.8)
1955.....	86.4	(86.5)	115.8	(115.6)	93.2	107.9	(107.7)
1956.....	91.9	(91.7)	108.8	(109.1)	92.8	101.0	(101.2)
1957.....	97.3	(97.2)	102.7	(102.8)	94.8	97.4	(97.5)
1958.....	99.2	(99.2)	100.8	(100.8)	99.6	100.4	(100.4)
1959.....	103.3	(103.4)	96.8	(96.7)	105.6	102.2	(102.1)
1960.....	116.8	(115.6)	85.6	(86.5)	107.7	92.2	(93.2)
1961.....	111.0	(108.9)	90.1	(91.8)	102.3	92.2	(93.9)
1962.....	118.8	(114.7)	84.2	(87.2)	102.9	86.6	(89.7)
1963.....	134.8	(130.4)	74.2	(76.7)	103.5	76.8	(79.4)
1964.....	194.8	(187.5)	51.3	(53.3)	134.6	69.1	(71.8)
1965.....	161.8	(156.4)	61.8	(63.9)	121.7	75.2	(77.8)
1966.....	178.6	(173.3)	56.0	(57.7)	110.4	61.8	(63.7)
1967 ⁴	121.1	(117.6)	82.6	(85.0)	105.6	87.2	(89.8)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.9	(3.8)	-3.8	(-3.7)	1.6	-2.2	(-2.1)
1957-67	5.6	(5.2)	-5.3	(-4.9)	1.7	-3.7	(-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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 43. HOSIERY SIC 2251, 2252
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1947-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1947.....	70.2	67.3	142.4	148.6	87.3	124.3	129.7
1948.....	(¹)	(¹)	(¹)	(¹)	87.5	(¹)	(¹)
1949.....	71.4	70.1	140.0	142.7	86.9	121.7	124.0
1950.....	75.7	74.0	132.1	135.2	97.1	128.3	131.3
1951.....	77.4	77.6	129.1	128.8	95.1	122.8	122.5
1952.....	85.9	83.7	116.4	119.5	100.7	117.2	120.3
1953.....	82.1	81.2	121.8	123.1	99.5	121.2	122.5
1954.....	85.1	85.2	117.6	117.4	96.8	113.8	113.6
1955.....	84.1	83.9	118.9	119.2	98.1	116.6	116.9
1956.....	85.7	85.7	116.7	116.7	95.9	111.9	111.9
1957.....	89.5	89.7	111.7	111.5	95.9	107.1	106.9
1958.....	104.5	106.0	95.7	94.4	99.4	95.1	93.8
1959.....	107.0	105.3	93.5	94.9	104.6	97.8	99.3
1960.....	109.2	108.1	91.6	92.5	104.3	95.5	96.5
1961.....	120.0	118.1	83.4	84.7	114.2	95.2	96.7
1962.....	124.4	122.4	80.4	81.7	117.3	94.3	95.8
1963.....	138.9	138.3	72.0	72.3	121.4	87.4	87.8
1964.....	152.4	148.0	65.6	67.6	129.2	84.8	87.3
1965.....	151.3	147.7	66.1	67.7	136.0	89.9	92.1
1966.....	168.5	162.7	59.3	61.5	150.3	89.2	92.4
1967 ²	193.4	188.2	52.5	53.1	166.6	87.5	88.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	5.0	5.0	-4.8	-4.8	2.6	-2.2	-2.2
1957-67	7.1	6.8	-6.6	-6.4	5.3	-1.7	-1.4

¹ Not available.

² 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 44.HOSIERY SIC 2251, 2252
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1947-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1947.....	68.8	65.7	145.4	152.1	87.3	126.9	132.8
1948.....	(²)	(²)	(²)	(²)	87.5	(²)	(²)
1949.....	71.3	69.9	140.3	143.0	86.9	121.9	124.3
1950.....	74.8	72.9	133.7	137.2	97.1	129.8	133.2
1951.....	77.7	78.0	128.7	128.3	95.1	122.4	122.0
1952.....	86.7	84.5	115.3	118.4	100.7	116.1	119.2
1953.....	82.2	81.3	121.7	123.0	99.5	121.1	122.4
1954.....	84.2	84.3	118.8	118.6	96.8	115.0	114.8
1955.....	83.6	83.3	119.7	120.1	98.1	117.4	117.8
1956.....	85.2	85.2	117.4	117.4	95.9	112.6	112.6
1957.....	89.4	89.5	111.9	111.7	95.9	107.3	107.1
1958.....	104.9	106.4	95.4	94.0	99.4	94.8	93.4
1959.....	107.0	105.1	93.5	95.1	104.6	97.8	99.5
1960.....	109.0	107.7	91.8	92.8	104.3	95.7	96.8
1961.....	120.5	118.5	83.0	84.4	114.2	94.8	96.4
1962.....	125.1	123.0	80.0	81.3	117.3	93.8	95.4
1963.....	138.9	138.1	72.0	72.4	121.4	87.4	87.9
1964.....	152.4	147.5	65.6	67.8	129.2	84.8	87.6
1965.....	151.3	147.3	66.1	67.9	136.0	89.9	92.3
1966.....	169.3	162.8	59.1	61.4	150.3	88.8	92.3
1967 ³	191.1	188.5	52.3	53.1	166.6	87.2	88.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	5.1	5.1	-4.8	-4.8	2.6	-2.3	-2.3
1957-67	7.1	6.8	-6.6	-6.3	5.3	-1.7	-1.4

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 45.HOSIERY SIC 2251, 2252
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1947.....	92.1	(90.4)	108.6	(110.7)	87.3	94.8	(96.6)
1948.....	(³)	(³)	(³)	(³)	87.5	(³)	(³)
1949.....	72.7	(71.9)	137.6	(139.1)	86.9	119.6	(120.9)
1950.....	87.6	(87.0)	114.1	(114.9)	97.1	110.8	(111.6)
1951.....	74.9	(74.2)	133.4	(134.7)	95.1	126.9	(128.1)
1952.....	77.6	(76.8)	128.8	(130.2)	100.7	129.7	(131.1)
1953.....	80.8	(80.5)	123.7	(124.2)	99.5	123.1	(123.6)
1954.....	96.7	(96.5)	103.4	(103.6)	96.8	100.1	(100.3)
1955.....	91.1	(91.3)	109.8	(109.6)	98.1	107.7	(107.5)
1956.....	91.8	(91.7)	109.0	(109.1)	95.9	104.5	(104.6)
1957.....	91.5	(91.5)	109.3	(109.3)	95.9	104.8	(104.8)
1958.....	101.7	(101.7)	98.3	(98.3)	99.4	97.7	(97.7)
1959.....	107.3	(107.4)	93.2	(93.1)	104.6	97.5	(97.4)
1960.....	111.7	(111.4)	89.5	(89.7)	104.3	93.4	(93.6)
1961.....	113.5	(114.0)	88.1	(87.7)	114.2	100.6	(100.2)
1962.....	116.9	(117.2)	85.5	(85.3)	117.3	100.3	(100.1)
1963.....	139.4	(139.7)	71.7	(71.6)	121.4	87.1	(86.9)
1964.....	152.7	(152.4)	65.5	(65.6)	129.2	84.6	(84.8)
1965.....	151.6	(152.0)	66.0	(65.8)	136.0	89.7	(89.5)
1966.....	159.7	(160.7)	62.6	(62.2)	150.3	94.1	(93.5)
1967 ⁴	183.7	(184.7)	54.4	(54.1)	166.6	90.7	(90.2)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.2	(4.3)	-4.1	(-4.1)	2.6	-1.5	(-1.6)
1957-67	6.7	(6.8)	-6.3	(-6.3)	5.3	-1.3	(-1.4)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 46. PAPER, PAPERBOARD AND PULP MILLS SIC 261, 262, 263, 266
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	(¹)	(¹)	(¹)	(¹)	41.0	(¹)	(¹)
1947.....	72.8	69.3	137.4	144.3	63.6	87.4	91.8
1948.....	(¹)	(¹)	(¹)	(¹)	66.2	(¹)	(¹)
1949.....	72.7	72.4	137.5	138.1	61.6	84.7	85.1
1950.....	84.5	81.5	118.3	122.7	73.6	87.1	90.3
1951.....	87.8	85.0	113.8	117.7	80.2	91.3	94.4
1952.....	84.7	83.3	118.1	120.1	76.3	90.1	91.6
1953.....	84.9	83.2	117.8	120.1	81.4	95.9	97.8
1954.....	86.8	86.3	115.2	115.9	82.9	95.5	96.1
1955.....	94.9	92.4	105.4	108.3	93.0	98.0	100.7
1956.....	98.5	96.5	101.5	103.6	98.7	100.2	102.3
1957.....	96.1	96.4	104.1	103.7	96.1	100.0	99.7
1958.....	97.9	98.8	102.2	101.2	96.5	98.6	97.7
1959.....	105.9	104.6	94.4	95.6	107.4	101.4	102.7
1960.....	108.2	108.2	92.4	92.4	109.9	101.6	101.6
1961.....	114.9	115.1	87.0	86.9	113.4	98.7	98.5
1962.....	119.7	119.7	83.6	83.6	119.3	99.7	99.7
1963.....	126.8	126.6	78.8	79.0	125.7	99.1	99.3
1964.....	134.7	133.3	74.2	75.0	133.8	99.3	100.4
1965.....	140.9	140.0	71.0	71.4	141.7	100.6	101.2
1966.....	148.7	146.9	67.2	68.1	152.6	102.6	103.9
1967 ²	147.2	146.3	67.9	68.3	151.9	103.2	103.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.7	3.9	-3.6	-3.7	4.6	0.9	0.7
1957-67	4.8	4.7	-4.6	-4.5	5.1	0.2	0.4

¹ Not available.

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 47. PAPER, PAPERBOARD AND PULP MILLS SIC 261, 262, 263, 266
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	68.4	71.8	146.1	139.3	41.0	59.9	57.1
1947.....	68.7	65.8	145.6	152.0	63.6	92.6	96.7
1948.....	(²)	(²)	(²)	(²)	66.2	(²)	(²)
1949.....	69.9	70.2	143.0	142.5	61.6	88.1	87.8
1950.....	81.1	78.4	123.4	127.6	73.6	90.8	93.9
1951.....	85.0	82.3	117.7	121.4	80.2	94.4	97.4
1952.....	82.5	81.3	121.2	122.9	76.3	92.5	93.8
1953.....	82.9	81.3	120.6	123.0	81.4	98.2	100.1
1954.....	85.2	84.9	117.4	117.9	82.9	97.3	97.7
1955.....	93.0	90.4	107.5	110.6	93.0	100.0	102.9
1956.....	97.5	95.3	102.5	105.0	98.7	101.2	103.6
1957.....	95.7	96.1	104.5	104.1	96.1	100.4	100.0
1958.....	97.7	98.8	102.4	101.2	96.5	98.8	97.7
1959.....	106.5	104.9	93.9	95.3	107.4	100.8	102.4
1960.....	109.7	109.5	91.2	91.4	109.9	100.2	100.4
1961.....	117.1	117.0	85.4	85.4	113.4	96.8	96.9
1962.....	121.7	121.4	82.1	82.4	119.3	98.0	98.3
1963.....	129.3	128.5	77.3	77.8	125.7	97.2	97.8
1964.....	137.2	135.2	72.9	74.0	133.8	97.5	99.0
1965.....	144.3	142.7	69.3	70.1	141.7	98.2	99.3
1966.....	152.8	149.8	65.5	66.8	152.6	99.9	101.9
1967 ³	153.6	150.8	65.1	66.3	151.9	98.9	100.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.2	4.3	-4.0	-4.1	4.6	0.4	0.3
1957-67	5.2	5.0	-5.0	-4.8	5.1	-0.1	0.1

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Not available.

³ Preliminary.

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

TABLE 48. PAPER, PAPERBOARD AND PULP MILLS SIC 261, 262, 263, 266
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	41.0	(³)	(³)
1947.....	102.4	(100.2)	97.6	(99.8)	63.6	62.1	(63.5)
1948.....	(³)	(³)	(³)	(³)	66.2	(³)	(³)
1949.....	90.1	(88.9)	111.0	(112.5)	61.6	68.4	(69.3)
1950.....	107.1	(106.1)	93.3	(94.3)	73.6	68.7	(69.4)
1951.....	105.7	(104.3)	94.6	(95.9)	80.2	75.9	(76.9)
1952.....	97.9	(96.7)	102.1	(103.4)	76.3	77.9	(78.9)
1953.....	96.2	(95.5)	103.9	(104.7)	81.4	84.6	(85.2)
1954.....	95.7	(95.3)	104.5	(104.9)	82.9	86.6	(87.0)
1955.....	105.6	(105.7)	94.7	(94.6)	93.0	88.1	(88.0)
1956.....	103.9	(103.8)	96.3	(96.4)	98.7	95.0	(95.1)
1957.....	98.1	(98.0)	102.0	(102.1)	96.1	98.0	(98.1)
1958.....	98.8	(98.8)	101.2	(101.2)	96.5	97.7	(97.7)
1959.....	103.0	(103.1)	97.1	(97.0)	107.4	104.3	(104.2)
1960.....	101.3	(101.4)	98.7	(98.6)	109.9	108.5	(108.4)
1961.....	105.2	(105.7)	95.1	(94.6)	113.4	107.8	(107.3)
1962.....	110.7	(110.8)	90.4	(90.3)	119.3	107.8	(107.7)
1963.....	116.1	(116.3)	86.2	(86.0)	125.7	108.3	(108.1)
1964.....	124.1	(123.8)	80.6	(80.8)	133.8	107.8	(108.1)
1965.....	126.2	(126.4)	79.3	(79.1)	141.7	112.3	(112.1)
1966.....	131.4	(132.2)	76.1	(75.6)	152.6	116.1	(115.4)
1967 ⁴	125.4	(125.4)	79.7	(79.7)	151.9	121.1	(121.1)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.4	(1.5)	-1.3	(-1.4)	4.6	3.2	(3.1)
1957-67	3.2	(3.2)	-3.1	(-3.1)	5.1	1.8	(1.8)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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. CORRUGATED AND SOLID FIBER BOXES SIC 2653
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1958-67
 (INDEXES, 1958 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1958.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1959.....	103.6	101.6	96.5	98.4	113.9	109.9	112.1
1960.....	101.0	101.2	99.0	98.9	114.0	112.9	112.7
1961.....	108.2	106.8	92.4	93.6	121.8	112.6	114.0
1962.....	110.6	108.4	90.4	92.2	130.1	117.6	120.0
1963.....	117.3	115.6	85.3	86.5	137.9	117.6	119.3
1964.....	121.1	116.8	82.5	85.6	147.8	122.0	126.5
1965.....	124.6	119.7	80.3	83.6	159.3	127.9	133.1
1966.....	127.0	123.5	78.8	81.0	172.3	135.7	139.5
1967 ¹	126.9	125.2	78.8	79.9	175.1	138.0	139.9
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	3.1	2.8	-3.0	-2.7	6.4	3.2	3.5

¹ 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 50. CORRUGATED AND SOLID FIBER BOXES SIC 2653
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1958-67

(INDEXES, 1958 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1958.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1959.....	102.3	99.8	97.7	100.2	113.9	111.3	114.1
1960.....	100.2	100.4	99.8	99.6	114.0	113.8	113.6
1961.....	107.6	105.8	92.9	94.5	121.8	113.2	115.1
1962.....	109.3	106.7	91.5	93.7	130.1	119.0	121.9
1963.....	117.6	115.2	85.1	86.8	137.9	117.3	119.7
1964.....	122.2	116.7	81.8	85.7	147.8	120.9	126.7
1965.....	126.0	119.5	79.3	83.7	159.3	126.4	133.3
1966.....	125.8	121.3	79.5	82.4	172.3	137.0	142.0
1967 ²	127.8	125.4	78.2	79.7	175.1	137.0	139.6
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	3.2	2.9	-3.1	-2.8	6.4	3.1	3.5

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 51. CORRUGATED AND SOLID FIBER BOXES SIC 2653
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1958-67

(INDEXES, 1958 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1958.....	100.0	(100.0)	100.0	(100.0)	100.0	100.0	(100.0)
1959.....	108.3	(108.4)	92.4	(92.3)	113.9	105.2	(105.1)
1960.....	103.7	(103.8)	96.4	(96.3)	114.0	109.9	(109.8)
1961.....	109.8	(110.3)	91.1	(90.6)	121.8	110.9	(110.4)
1962.....	114.6	(114.8)	87.2	(87.1)	130.1	113.5	(113.3)
1963.....	116.5	(116.8)	85.9	(85.6)	137.9	118.4	(118.1)
1964.....	117.7	(117.5)	85.0	(85.1)	147.8	125.6	(125.8)
1965.....	120.0	(120.3)	83.3	(83.1)	159.3	132.7	(132.4)
1966.....	130.8	(131.6)	76.4	(76.0)	172.3	131.7	(130.9)
1967 ³	124.0	(124.5)	80.6	(80.3)	175.1	141.2	(140.6)
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	2.6	(2.6)	-2.5	(-2.6)	6.4	3.7	(3.7)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 52. MAN MADE FIBERS SIC 2823, 2824
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1957-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1957.....	97.3	98.0	102.8	102.0	99.9	102.7	101.9
1958.....	94.2	94.0	106.1	106.4	91.2	96.8	97.0
1959.....	108.4	107.7	92.3	92.8	108.9	100.5	101.1
1960.....	101.9	103.0	98.1	97.1	102.5	100.6	99.5
1961.....	110.1	110.7	90.8	90.4	107.8	97.9	97.4
1962.....	121.8	121.5	82.1	82.3	128.7	105.7	105.9
1963.....	121.9	120.6	82.0	82.9	137.6	112.9	114.1
1964.....	131.1	128.3	76.3	77.9	157.7	120.3	122.9
1965.....	133.9	132.4	74.7	75.5	180.6	134.9	136.4
1966.....	133.6	133.2	74.8	75.1	197.1	147.5	148.0
1967 ¹	140.4	140.2	71.2	71.3	200.6	142.9	143.1
AVERAGE ANNUAL RATES (PERCENT)							
1957-67	4.1	4.0	-4.0	-3.9	8.7	4.4	4.5

¹ 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 53. MAN MADE FIBERS SIC 2823, 2824
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1957-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1957.....	96.1	97.1	104.1	103.0	99.9	104.0	102.9
1958.....	97.0	96.5	103.1	103.6	91.2	94.0	94.5
1959.....	106.8	106.1	93.7	94.2	108.9	102.0	102.6
1960.....	102.0	103.4	98.0	96.7	102.5	100.5	99.1
1961.....	111.4	111.8	89.8	89.4	107.8	96.8	96.4
1962.....	121.0	120.3	82.7	83.1	128.7	106.4	107.0
1963.....	124.8	122.3	80.2	81.8	137.6	110.3	112.5
1964.....	133.3	129.3	75.0	77.4	157.7	118.3	122.0
1965.....	134.7	132.2	74.3	75.6	180.6	134.1	136.6
1966.....	137.4	136.0	72.8	73.5	197.1	143.4	144.9
1967 ²	148.2	145.0	67.5	68.9	200.6	135.4	138.3
AVERAGE ANNUAL RATES (PERCENT)							
1957-67	4.6	4.2	-4.4	-4.1	8.7	4.0	4.3

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 54. MAN MADE FIBERS SIC 2823, 2824
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1957-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1957.....	101.2	(101.0)	98.8	(99.0)	99.9	98.7	(98.9)
1958.....	86.8	(86.8)	115.2	(115.2)	91.2	105.1	(105.1)
1959.....	113.2	(113.3)	88.3	(88.2)	108.9	96.2	(96.1)
1960.....	101.4	(101.8)	98.6	(98.2)	102.5	101.1	(100.7)
1961.....	106.2	(107.3)	94.2	(93.2)	107.8	101.5	(100.5)
1962.....	124.6	(125.8)	80.3	(79.5)	128.7	103.3	(102.3)
1963.....	114.0	(115.1)	87.7	(86.8)	137.6	120.7	(119.5)
1964.....	124.8	(125.5)	80.2	(79.7)	157.7	126.4	(125.7)
1965.....	131.4	(132.8)	76.1	(75.3)	180.6	137.4	(136.0)
1966.....	123.3	(125.1)	81.1	(79.9)	197.1	159.8	(157.5)
1967 ³	125.5	(127.4)	79.7	(78.5)	200.6	159.8	(157.5)
AVERAGE ANNUAL RATES (PERCENT)							
1957-67	3.2	(3.3)	-3.1	(-3.2)	8.7	5.4	(5.2)

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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 55. PETROLEUM REFINING SIC 2911
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	60.4	(¹)	165.5	(¹)	42.0	69.5	(¹)
1947.....	60.8	57.5	164.4	174.1	60.9	100.1	106.0
1948.....	(¹)	(¹)	(¹)	(¹)	66.9	(¹)	(¹)
1949.....	65.7	63.8	152.2	156.8	65.0	98.9	101.9
1950.....	73.9	71.4	135.3	140.1	70.6	95.5	98.9
1951.....	77.0	74.5	129.9	134.3	80.0	103.9	107.4
1952.....	77.8	76.4	128.5	130.9	81.8	105.1	107.1
1953.....	78.4	77.9	127.5	128.3	85.9	109.5	110.2
1954.....	81.5	81.8	122.1	122.3	86.1	105.1	105.3
1955.....	90.0	89.3	111.2	111.9	93.1	103.5	104.2
1956.....	93.9	93.2	106.5	107.3	99.2	105.6	106.4
1957.....	94.1	93.4	106.2	107.0	99.4	105.6	106.4
1958.....	97.4	98.0	102.7	102.0	97.6	100.2	99.6
1959.....	110.1	110.1	90.8	90.8	103.6	94.1	94.1
1960.....	115.4	114.8	86.6	87.1	106.9	92.6	93.1
1961.....	123.9	123.5	80.7	81.0	109.4	88.3	88.6
1962.....	135.2	134.6	74.0	74.3	114.1	84.4	84.8
1963.....	142.9	144.3	70.0	69.3	117.0	81.9	81.1
1964.....	153.9	152.3	65.0	65.6	120.2	78.1	78.9
1965.....	163.7	164.4	61.1	60.8	123.3	75.3	75.0
1966.....	177.2	177.2	56.4	56.4	129.5	73.1	73.1
1967 ²	184.9	181.2	54.1	55.2	134.6	72.8	74.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	5.7	5.9	-5.4	-5.6	3.8	-1.9	-2.1
1957-67	7.2	7.2	-6.7	-6.7	3.2	-3.8	-3.7

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 56. PETROLEUM REFINING SIC 2911
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	55.0	55.9	181.7	178.8	42.0	76.3	75.1
1947.....	57.0	53.5	175.5	186.9	60.9	106.9	113.8
1948.....	(²)	(²)	(²)	(²)	66.9	(²)	(²)
1949.....	60.9	59.1	164.3	169.1	65.0	106.8	109.9
1950.....	71.2	68.3	140.5	146.3	70.6	99.2	103.3
1951.....	74.6	71.8	134.1	139.3	80.0	107.3	111.4
1952.....	76.0	74.6	131.7	134.1	81.8	107.7	109.7
1953.....	76.8	76.4	130.3	130.8	85.9	111.9	112.4
1954.....	80.5	80.5	124.2	124.2	86.1	106.9	106.9
1955.....	88.5	87.8	113.0	113.9	93.1	105.2	106.0
1956.....	92.5	91.7	108.2	109.1	99.2	107.3	108.2
1957.....	94.0	93.2	106.3	107.2	99.4	105.7	106.6
1958.....	97.2	98.1	102.9	101.9	97.6	100.4	99.5
1959.....	110.2	110.3	90.7	90.6	103.6	94.0	93.9
1960.....	117.1	115.9	85.4	85.2	106.9	91.3	92.2
1961.....	126.2	125.3	79.3	79.8	109.4	86.7	87.3
1962.....	138.5	137.3	72.2	72.8	114.1	82.4	83.1
1963.....	145.0	146.8	69.0	68.1	117.0	80.7	79.7
1964.....	156.9	154.7	63.7	64.6	120.2	76.6	77.7
1965.....	166.8	167.3	59.9	59.8	123.3	73.9	73.7
1966.....	180.9	180.4	55.3	55.4	129.5	71.6	71.8
1967.....	191.2	184.9	52.3	54.1	134.6	70.4	72.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	6.2	6.4	-5.9	-6.0	3.8	-2.3	-2.5
1957-67	7.5	7.4	-7.0	-6.9	3.2	-4.0	-3.9

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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.

TABLE 57. PETROLEUM REFINING SIC 2911
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	82.4	(³)	121.4	(³)	42.0	51.0	(³)
1947.....	74.7	(73.0)	133.8	(136.9)	60.9	81.5	(83.4)
1948.....	(³)	(³)	(³)	(³)	66.9	(³)	(³)
1949.....	83.7	(82.6)	119.5	(121.1)	65.0	77.7	(78.7)
1950.....	82.6	(81.7)	121.1	(122.4)	70.6	85.5	(86.4)
1951.....	84.5	(83.3)	118.4	(120.0)	80.0	94.7	(96.0)
1952.....	83.3	(82.1)	120.0	(121.8)	81.8	98.2	(99.6)
1953.....	83.3	(82.8)	120.0	(120.8)	85.9	103.1	(103.8)
1954.....	86.0	(85.6)	116.3	(116.8)	86.1	100.1	(100.6)
1955.....	94.1	(94.3)	106.2	(106.0)	93.1	98.9	(98.7)
1956.....	98.3	(98.1)	101.7	(101.9)	99.2	100.9	(101.1)
1957.....	94.1	(94.0)	106.2	(106.3)	99.4	105.6	(105.7)
1958.....	97.8	(97.8)	102.3	(102.3)	97.6	99.8	(99.8)
1959.....	109.5	(109.6)	91.3	(91.2)	103.6	94.6	(94.5)
1960.....	111.5	(111.6)	89.7	(89.6)	106.9	95.9	(95.8)
1961.....	118.0	(118.7)	84.7	(84.3)	109.4	92.7	(92.2)
1962.....	127.2	(127.3)	78.6	(78.5)	114.1	89.7	(89.6)
1963.....	137.5	(137.6)	72.7	(72.6)	117.0	85.1	(85.0)
1964.....	146.6	(146.2)	68.2	(68.4)	120.2	82.0	(82.2)
1965.....	156.3	(156.5)	64.0	(63.9)	123.3	78.9	(78.8)
1966.....	167.7	(168.6)	59.6	(59.3)	129.5	77.2	(76.8)
1967 ⁴	170.2	(171.2)	58.8	(58.4)	134.6	79.1	(78.6)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.3	(4.4)	-4.1	(-4.2)	3.8	-0.5	(-0.6)
1957-67	6.5	(6.5)	-6.1	(-6.1)	3.2	-3.1	(-3.1)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 58. TIRES AND INNER TUBES SIC 3011
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1947.....	71.2	69.7	140.4	143.5	89.4	125.5	128.3
1948.....	(¹)	(¹)	(¹)	(¹)	77.6	(¹)	(¹)
1949.....	73.8	76.8	135.6	130.3	69.7	94.5	90.8
1950.....	88.5	86.5	113.0	115.6	85.9	97.1	99.3
1951.....	86.0	83.3	116.3	120.0	86.1	100.1	103.3
1952.....	82.0	80.2	121.9	124.7	87.1	106.2	108.6
1953.....	85.4	84.3	117.1	118.6	89.9	105.3	106.6
1954.....	81.6	83.8	122.5	119.4	82.1	100.6	98.0
1955.....	95.6	89.2	104.6	112.1	102.4	107.1	114.8
1956.....	88.8	89.2	112.6	112.1	94.7	106.6	106.2
1957.....	94.3	93.9	106.1	106.5	99.1	105.1	105.5
1958.....	96.6	97.8	103.5	102.3	91.5	94.7	93.6
1959.....	109.2	108.4	91.6	92.2	109.4	100.2	100.9
1960.....	111.3	111.1	89.9	90.0	108.4	97.4	97.6
1961.....	114.9	114.6	87.0	87.2	104.9	91.3	91.5
1962.....	131.0	126.3	76.4	79.2	119.7	91.4	94.8
1963.....	137.9	135.6	72.5	73.7	124.5	90.3	91.8
1964.....	155.9	149.2	64.1	67.0	141.7	90.9	95.0
1965.....	161.4	153.6	61.9	65.1	151.6	93.9	98.7
1966.....	166.3	158.0	60.1	63.3	164.0	98.6	103.8
1967.....	154.5	156.5	64.7	63.9	153.7	99.5	98.2
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.4	4.3	-4.2	-4.1	3.6	-0.8	-0.6
1957-67	6.3	5.9	-5.9	-5.5	5.8	-0.4	-0.1

¹ Not available.

² 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 59. TIRES AND INNER TUBES SIC 3011
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1947-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1947.....	69.3	67.8	144.3	147.5	89.4	129.0	131.9
1948.....	(²)	(²)	(²)	(²)	77.6	(²)	(²)
1949.....	71.5	75.4	139.9	132.7	69.7	97.5	92.5
1950.....	84.6	82.7	118.2	121.0	85.9	101.5	103.9
1951.....	82.8	79.9	120.8	125.1	86.1	104.0	107.7
1952.....	79.3	77.6	126.1	128.9	87.1	109.8	112.3
1953.....	82.6	81.7	121.0	122.5	89.9	108.8	110.1
1954.....	80.8	83.7	123.8	119.5	82.1	101.6	98.1
1955.....	93.9	86.2	106.5	116.0	102.4	109.1	118.8
1956.....	88.2	88.7	113.4	112.8	94.7	107.4	106.8
1957.....	94.1	93.8	106.3	106.7	99.1	105.3	105.7
1958.....	97.5	99.0	102.5	101.0	91.5	93.8	92.4
1959.....	108.4	107.4	92.2	93.1	109.4	100.9	101.9
1960.....	112.1	111.5	89.2	89.7	108.4	96.7	97.2
1961.....	118.0	116.9	84.7	85.5	104.9	88.9	89.7
1962.....	132.1	125.5	75.7	79.7	119.7	90.6	95.4
1963.....	140.2	136.4	71.3	73.3	124.5	88.8	91.3
1964.....	159.2	149.6	62.8	66.8	141.7	89.0	94.7
1965.....	165.9	154.5	60.3	64.7	151.6	91.4	98.1
1966.....	170.5	158.3	58.7	63.2	164.0	96.2	103.6
1967 ³	159.3	160.6	62.8	62.3	153.7	96.5	95.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.8	4.6	-4.6	-4.4	3.6	-1.1	-0.9
1957-67	6.6	6.0	-6.2	-5.7	5.8	-0.7	-0.2

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 60. TIRES AND INNER TUBES SIC 3011
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1947.....	79.6	(77.9)	125.6	(128.4)	89.4	112.3	(114.8)
1948.....	(³)	(³)	(³)	(³)	77.6	(³)	(³)
1949.....	84.1	(83.0)	118.9	(120.5)	69.7	82.9	(84.0)
1950.....	106.4	(105.3)	93.9	(95.0)	85.9	80.7	(81.6)
1951.....	100.9	(99.8)	99.1	(100.2)	86.1	85.3	(86.3)
1952.....	93.8	(92.5)	106.7	(108.2)	87.1	92.9	(94.2)
1953.....	97.5	(96.9)	102.6	(103.2)	89.9	92.2	(92.8)
1954.....	84.6	(84.3)	118.1	(118.6)	82.1	97.0	(97.4)
1955.....	103.0	(103.2)	97.1	(96.9)	102.4	99.4	(99.2)
1956.....	91.3	(91.1)	109.5	(109.7)	94.7	103.7	(103.9)
1957.....	94.7	(94.7)	105.5	(105.7)	99.1	104.6	(104.7)
1958.....	93.3	(93.3)	107.2	(107.2)	91.5	98.1	(98.1)
1959.....	112.4	(112.6)	88.9	(88.8)	109.4	97.3	(97.2)
1960.....	108.3	(109.2)	92.3	(91.6)	108.4	100.1	(99.3)
1961.....	104.6	(106.7)	95.6	(93.7)	104.9	100.3	(98.3)
1962.....	126.5	(129.1)	79.0	(77.4)	119.7	94.6	(92.7)
1963.....	130.0	(132.7)	76.9	(75.3)	124.5	95.8	(93.8)
1964.....	144.4	(147.0)	69.2	(68.0)	141.7	98.1	(96.4)
1965.....	146.6	(149.8)	68.2	(66.8)	151.6	103.4	(101.2)
1966.....	152.6	(156.6)	65.5	(63.8)	164.0	107.5	(104.7)
1967.....	138.5	(142.2)	72.2	(70.3)	153.7	111.0	(108.1)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	2.9	(3.1)	-2.8	(-3.0)	3.6	0.7	(0.5)
1957-67	5.1	(5.4)	-4.8	(-5.1)	5.8	0.7	(0.4)

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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 61. FOOTWEAR SIC 3141,3142
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1947-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1947.....	78.2	74.8	127.8	133.7	81.3	103.9	108.7
1948.....	(¹)	(¹)	(¹)	(¹)	80.3	(¹)	(¹)
1949.....	75.6	78.7	132.4	127.1	78.5	103.9	99.8
1950.....	83.1	85.0	120.3	117.7	86.6	104.2	101.9
1951.....	83.7	87.1	119.5	114.8	80.9	96.7	92.9
1952.....	89.1	89.0	112.2	112.4	89.0	99.9	100.0
1953.....	(²)	(²)	(²)	(²)	(²)	(²)	(²)
1954.....	87.9	89.3	113.7	112.0	87.5	99.5	98.0
1955.....	95.2	93.4	105.0	107.1	96.2	101.0	103.0
1956.....	95.6	95.0	104.6	105.2	97.5	102.0	102.6
1957.....	96.5	96.8	103.7	103.3	98.0	101.6	101.2
1958.....	98.1	99.0	102.0	101.0	96.2	98.1	97.2
1959.....	105.4	104.1	94.9	96.0	105.8	100.4	101.6
1960.....	102.5	103.0	97.5	97.1	100.9	98.4	98.0
1961.....	102.5	103.4	97.5	96.7	101.3	98.8	98.0
1962.....	104.9	104.6	95.3	95.6	103.2	98.4	98.7
1963.....	109.0	108.4	91.7	92.2	100.3	92.0	92.5
1964.....	110.7	107.9	90.3	92.7	102.2	92.3	94.7
1965.....	109.4	107.3	91.4	93.2	103.1	94.2	96.1
1966.....	111.4	108.6	89.8	92.1	105.8	95.0	97.4
1967 ³	108.0	105.8	92.6	94.5	98.5	91.2	93.1
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.9	1.8	-1.9	-1.8	1.4	-0.6	-0.4
1957-67	1.3	1.0	-1.3	-0.9	0.3	-1.0	-0.6

¹ Not available.

² 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.

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 62. FOOTWEAR SIC 3141,3142
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1947.....	77.0	73.3	129.9	136.4	81.3	105.6	110.9
1948.....	(²)	(²)	(²)	(²)	80.3	(²)	(²)
1949.....	74.6	78.0	134.0	128.2	78.5	105.2	106.6
1950.....	82.3	84.4	121.5	118.5	86.6	105.2	102.6
1951.....	83.5	87.3	119.8	114.6	80.9	96.9	92.7
1952.....	88.9	88.9	112.5	112.5	89.0	100.1	100.1
1953.....	(³)	(³)	(³)	(³)	(³)	(³)	(³)
1954.....	87.2	88.7	114.6	112.8	87.5	100.3	98.7
1955.....	94.8	92.7	105.5	107.9	96.2	101.5	103.8
1956.....	95.3	94.7	104.9	105.6	97.5	102.3	103.0
1957.....	96.5	96.8	103.7	103.3	98.0	101.6	101.2
1958.....	98.3	99.3	101.8	100.7	96.2	97.9	96.9
1959.....	105.3	103.8	95.0	96.3	105.8	100.5	101.9
1960.....	102.7	103.2	97.3	96.9	100.9	98.2	97.8
1961.....	102.7	103.5	97.3	96.6	101.3	98.6	97.9
1962.....	104.7	104.1	95.5	96.0	103.2	98.6	99.1
1963.....	108.7	107.7	92.0	92.8	100.3	92.3	93.1
1964.....	110.2	106.9	90.7	93.5	102.2	92.7	95.6
1965.....	109.0	106.4	91.8	94.0	103.1	94.6	96.9
1966.....	111.4	108.0	89.8	92.6	105.8	95.0	98.0
1967 ⁴	108.4	105.6	92.3	94.7	98.5	90.9	93.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	2.0	1.8	-2.0	-1.8	1.4	-0.6	-0.4
1957-67	1.3	0.9	-1.2	-0.9	0.3	-0.9	-0.6

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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

TABLE 63. FOOTWEAR SIC 3141,3142
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1947-67

(INDEXES, 1957-59 = 100)							
YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1947.....	92.9	(91.5)	107.6	(109.3)	81.3	87.5	(88.9)
1948.....	(³)	(³)	(³)	(³)	80.3	(³)	(³)
1949.....	86.0	(85.2)	116.3	(117.3)	78.5	91.3	(92.1)
1950.....	91.0	(90.4)	109.9	(110.6)	86.6	95.2	(95.8)
1951.....	85.6	(84.9)	116.8	(117.8)	80.9	94.5	(95.3)
1952.....	90.5	(89.5)	110.4	(111.7)	89.0	98.3	(99.4)
1953.....	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
1954.....	95.1	(94.9)	105.1	(105.4)	87.5	92.0	(92.2)
1955.....	99.3	(99.6)	100.7	(100.4)	96.2	96.9	(96.6)
1956.....	98.6	(98.5)	101.4	(101.5)	97.5	98.9	(99.0)
1957.....	96.6	(96.6)	103.6	(103.6)	98.0	101.5	(101.5)
1958.....	96.7	(96.7)	103.4	(103.4)	96.2	99.5	(99.5)
1959.....	106.9	(106.9)	93.6	(93.6)	105.8	99.0	(99.0)
1960.....	100.2	(100.8)	99.8	(99.2)	100.9	100.7	(100.1)
1961.....	100.4	(102.0)	99.6	(98.0)	101.3	100.9	(99.3)
1962.....	106.6	(108.5)	93.8	(92.2)	103.2	96.8	(95.1)
1963.....	112.8	(114.9)	88.6	(87.0)	100.3	88.9	(87.3)
1964.....	115.6	(117.2)	86.5	(85.3)	102.2	88.4	(87.2)
1965.....	113.5	(115.6)	88.1	(86.5)	103.1	90.8	(89.2)
1966.....	112.6	(115.0)	88.8	(87.0)	105.8	94.0	(92.0)
1967 ⁵	105.5	(107.8)	94.8	(92.8)	98.5	93.4	(91.4)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.4	(1.6)	-1.3	(-1.5)	1.4	0.0	(-0.2)
1957-67	1.5	(1.7)	-1.5	(-1.7)	0.3	-1.2	(-1.4)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Not available.

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

⁵ Preliminary.

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

TABLE 64. GLASS CONTAINERS SIC 3221
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	69.2	(¹)	144.6	(¹)	36.8	53.2	(¹)
1947.....	99.2	95.2	100.8	105.1	84.8	85.5	89.1
1948.....	(¹)	(¹)	(¹)	(¹)	71.4	(¹)	(¹)
1949.....	88.8	86.8	112.6	115.3	64.9	73.1	74.8
1950.....	98.2	96.7	101.9	103.5	75.3	76.7	77.9
1951.....	93.7	93.0	106.7	107.6	81.8	87.3	88.0
1952.....	93.0	92.0	107.5	108.7	80.3	86.3	87.3
1953.....	96.9	97.5	103.1	102.6	89.0	91.8	91.3
1954.....	96.1	96.3	104.1	103.8	86.1	89.6	89.4
1955.....	101.2	100.4	98.8	99.6	93.8	92.7	93.4
1956.....	102.4	100.6	97.6	99.4	96.2	93.9	95.6
1957.....	100.9	100.2	99.1	99.8	99.3	98.4	99.1
1958.....	97.4	96.9	102.7	103.2	97.0	99.6	100.1
1959.....	101.8	102.9	98.3	97.2	103.8	102.0	100.9
1960.....	100.8	100.4	99.3	99.6	106.9	106.1	106.5
1961.....	101.7	102.3	98.3	97.7	111.0	109.1	108.5
1962.....	106.5	106.2	93.9	94.1	116.0	108.9	109.2
1963.....	110.2	110.0	90.7	90.9	119.9	108.8	109.0
1964.....	113.5	112.2	88.1	89.1	124.4	109.6	110.9
1965.....	118.1	118.5	84.7	84.4	131.8	111.6	111.2
1966.....	118.0	117.7	84.7	84.9	138.0	116.9	117.2
1967 ²	118.5	118.3	84.4	84.5	146.1	123.3	123.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.2	1.3	-1.2	-1.3	3.5	2.2	2.1
1957-67	2.1	2.1	-2.1	-2.1	4.1	1.9	1.9

¹ Not available.

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 65. GLASS CONTAINERS SIC 3221
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	70.1	73.3	142.7	136.4	36.8	52.5	50.2
1947.....	99.2	94.9	100.8	105.4	84.8	85.5	89.4
1948.....	(³)	(³)	(³)	(³)	71.4	(³)	(³)
1949.....	87.8	85.7	113.9	116.6	64.9	73.9	75.7
1950.....	96.7	95.1	103.5	105.2	75.3	77.9	79.2
1951.....	92.2	91.6	108.4	109.2	81.8	88.7	89.3
1952.....	91.8	90.7	109.0	110.2	80.3	87.5	88.5
1953.....	96.4	97.1	103.7	103.0	89.0	92.3	91.7
1954.....	95.9	96.2	104.3	103.9	86.1	89.8	89.5
1955.....	100.5	99.7	99.5	100.3	93.8	93.3	94.1
1956.....	102.0	100.0	98.0	100.0	96.2	94.3	96.2
1957.....	100.6	99.8	99.4	100.2	99.3	98.7	99.5
1958.....	97.9	97.3	102.2	102.8	97.0	99.1	99.7
1959.....	101.7	102.9	98.4	97.2	103.8	102.1	100.9
1960.....	100.8	100.4	99.2	99.6	106.9	106.0	106.5
1961.....	101.5	102.0	98.6	98.0	111.0	109.4	108.8
1962.....	106.7	106.2	93.7	94.1	116.0	108.7	109.2
1963.....	110.0	109.7	90.9	91.2	119.9	109.0	109.3
1964.....	113.5	112.0	88.1	89.3	124.4	109.6	111.1
1965.....	118.0	118.4	84.7	84.4	131.8	111.7	111.3
1966.....	117.8	117.4	84.9	85.1	138.0	117.1	117.5
1967 ³	117.5	117.3	85.1	85.3	146.1	124.3	124.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.3	1.4	-1.3	-1.4	3.5	2.2	2.1
1957-67	2.1	2.1	-2.1	-2.0	4.1	2.0	2.0

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Not available.

³ Preliminary.

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

TABLE 66. GLASS CONTAINERS SIC 3221
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	62.1	(³)	161.1	(³)	36.8	59.3	(³)
1947.....	99.4	(97.1)	100.6	(102.9)	84.8	85.3	(87.3)
1948.....	(³)	(³)	(³)	(³)	71.4	(³)	(³)
1949.....	97.2	(95.9)	102.9	(104.3)	64.9	66.8	(67.7)
1950.....	113.2	(112.1)	88.3	(89.2)	75.3	66.5	(67.2)
1951.....	107.6	(106.4)	92.9	(94.0)	81.8	76.0	(76.9)
1952.....	105.4	(104.0)	94.9	(96.1)	80.3	76.2	(77.2)
1953.....	102.1	(101.4)	98.0	(98.7)	89.0	87.2	(87.8)
1954.....	98.2	(97.7)	101.9	(102.3)	86.1	87.7	(88.1)
1955.....	106.2	(106.3)	94.1	(94.0)	93.8	88.3	(88.2)
1956.....	106.4	(106.2)	94.0	(94.2)	96.2	90.4	(90.6)
1957.....	104.0	(103.9)	96.2	(96.3)	99.3	95.5	(95.6)
1958.....	93.5	(93.5)	106.9	(106.9)	97.0	103.7	(103.7)
1959.....	103.0	(103.1)	97.1	(97.0)	103.8	100.8	(100.7)
1960.....	99.9	(100.1)	100.1	(99.9)	106.9	107.0	(106.8)
1961.....	103.8	(104.5)	96.3	(95.7)	111.0	106.9	(106.2)
1962.....	105.5	(105.8)	94.8	(94.5)	116.0	110.0	(109.6)
1963.....	112.0	(112.5)	89.3	(88.9)	119.9	107.1	(106.6)
1964.....	113.8	(113.8)	87.9	(87.9)	124.4	109.3	(109.3)
1965.....	119.0	(119.4)	84.1	(83.8)	131.8	110.8	(110.4)
1966.....	119.3	(120.3)	83.8	(83.1)	138.0	115.7	(114.7)
1967 ⁴	126.9	(127.9)	78.8	(78.2)	146.1	115.1	(114.2)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	0.8	(0.9)	-0.8	(-0.9)	3.5	2.7	(2.5)
1957-67	2.5	(2.6)	-2.5	(-2.5)	4.1	1.6	(1.5)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 67. CEMENT HYDRAULIC SIC 3241
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	60.2	(¹)	166.1	(¹)	41.3	68.6	(¹)
1947.....	65.2	60.4	153.4	165.5	63.7	97.7	105.4
1948.....	(¹)	(¹)	(¹)	(¹)	69.8	(¹)	(¹)
1949.....	72.2	68.5	138.5	145.9	70.1	97.1	102.3
1950.....	72.6	69.2	137.7	144.5	75.5	104.0	109.1
1951.....	74.5	71.3	134.2	140.2	80.3	107.8	112.6
1952.....	76.0	72.2	131.6	138.5	81.1	106.7	112.3
1953.....	84.0	79.6	119.0	125.7	85.7	102.0	107.7
1954.....	91.9	88.6	108.8	112.9	88.6	96.4	100.0
1955.....	97.4	93.5	102.7	107.0	96.2	98.8	102.9
1956.....	101.0	98.4	99.0	101.7	101.4	100.4	103.1
1957.....	93.9	95.5	106.4	104.8	94.6	100.7	99.1
1958.....	98.7	98.6	101.3	101.4	98.3	99.6	99.7
1959.....	107.4	105.8	93.1	94.5	107.1	99.7	101.2
1960.....	105.1	104.7	95.1	95.5	100.3	95.4	95.8
1961.....	115.0	115.9	87.0	86.3	101.4	88.2	87.5
1962.....	122.3	122.9	81.8	81.4	105.3	86.1	85.7
1963.....	130.2	130.0	76.8	76.9	110.0	84.5	84.6
1964.....	136.5	134.6	73.2	74.3	114.7	84.0	85.2
1965.....	138.6	138.8	72.2	72.1	116.0	83.7	83.6
1966.....	147.1	145.5	68.0	68.7	119.6	81.3	82.2
1967.....	148.0	148.2	67.6	67.5	114.7	77.5	77.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.3	4.7	-4.1	-4.5	2.9	-1.4	-1.7
1957-67	4.9	4.8	-4.7	-4.6	2.1	-2.6	-2.6

¹ Not available.

² 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 68. CEMENT HYDRAULIC SIC 3241
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	60.8	61.6	164.4	162.2	41.3	67.9	67.0
1947.....	63.5	58.5	157.5	170.8	63.7	100.3	108.8
1948.....	(²)	(²)	(²)	(²)	69.8	(²)	(²)
1949.....	71.0	67.1	140.8	149.1	70.1	98.7	104.5
1950.....	71.2	67.5	140.5	148.1	75.5	106.1	111.8
1951.....	73.5	70.2	136.0	142.5	80.3	109.2	114.4
1952.....	75.1	71.0	133.2	140.8	81.1	108.0	114.2
1953.....	83.6	78.6	119.6	127.3	85.7	102.5	109.1
1954.....	91.7	87.9	109.0	113.8	88.6	96.6	100.8
1955.....	96.5	92.1	103.6	108.5	96.2	99.7	104.4
1956.....	99.8	96.8	100.2	103.4	101.4	101.6	104.8
1957.....	92.9	94.8	107.6	105.5	94.6	101.8	99.8
1958.....	99.6	99.5	100.4	100.5	98.3	98.7	98.8
1959.....	107.6	105.7	92.9	94.6	107.1	99.5	101.3
1960.....	106.3	105.7	94.1	94.6	100.3	94.4	94.9
1961.....	117.0	117.8	85.5	84.9	101.4	86.7	86.1
1962.....	124.9	125.4	80.1	79.8	105.3	84.3	84.0
1963.....	135.0	134.3	74.1	74.5	110.0	81.5	81.9
1964.....	144.5	141.4	69.2	70.7	114.7	79.4	81.1
1965.....	146.5	145.9	68.3	68.5	116.0	79.2	79.5
1966.....	156.5	153.5	63.9	65.1	119.6	76.4	77.9
1967.....	155.4	155.0	64.3	64.5	114.7	73.8	74.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.7	5.1	-4.5	-4.9	2.9	-1.8	-2.2
1957-67	5.7	5.5	-5.4	-5.2	2.1	-3.3	-3.2

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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. Employment and hours based on data from the Bureau of the Census, U.S. Department of Commerce.

TABLE 69. CEMENT HYDRAULIC SIC 3241
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	56.8	(³)	176.0	(³)	41.3	72.7	(³)
1947.....	76.7	(74.9)	130.5	(133.4)	63.7	83.1	(85.0)
1948.....	(³)	(³)	(³)	(³)	69.8	(³)	(³)
1949.....	80.2	(79.0)	124.7	(126.5)	70.1	87.4	(88.7)
1950.....	82.5	(81.6)	121.2	(122.5)	75.5	91.5	(92.5)
1951.....	80.4	(79.3)	124.4	(126.0)	80.3	99.9	(101.2)
1952.....	81.6	(80.5)	122.6	(124.3)	81.1	99.4	(100.8)
1953.....	86.6	(86.0)	115.5	(116.3)	85.7	99.0	(99.7)
1954.....	93.5	(93.0)	107.0	(107.6)	88.6	94.8	(95.3)
1955.....	102.9	(103.0)	97.2	(97.1)	96.2	93.5	(93.4)
1956.....	109.0	(108.8)	91.7	(91.9)	101.4	93.0	(93.2)
1957.....	100.4	(100.3)	99.6	(99.7)	94.6	94.2	(94.3)
1958.....	93.6	(93.6)	106.8	(106.8)	98.3	105.0	(105.0)
1959.....	106.3	(106.4)	94.1	(94.0)	107.1	100.8	(100.7)
1960.....	99.3	(99.4)	100.7	(100.6)	100.3	101.0	(100.9)
1961.....	104.6	(105.3)	95.6	(95.0)	101.4	96.9	(96.3)
1962.....	109.3	(109.7)	91.5	(91.2)	105.3	96.3	(96.0)
1963.....	108.3	(108.7)	92.4	(92.0)	110.0	101.6	(101.2)
1964.....	104.6	(103.9)	96.2	(96.3)	114.7	110.3	(110.4)
1965.....	105.7	(106.1)	94.6	(94.2)	116.0	109.7	(109.3)
1966.....	109.0	(109.9)	91.7	(91.0)	119.6	109.7	(108.8)
1967 ⁴	115.5	(116.6)	86.6	(85.8)	114.7	99.3	(98.4)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	1.9	(2.1)	-1.9	(-2.0)	2.9	0.9	(0.8)
1957-67	1.3	(1.4)	-1.3	(-1.4)	2.1	0.8	(0.8)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 70. CONCRETE PRODUCTS SIC 3271,3272
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1947.....	61.0 (¹)	58.3 (¹)	163.8 (¹)	171.4 (¹)	40.9 (¹)	67.0 (¹)	70.1 (¹)
1948.....							
1949.....	68.7	66.4	145.6	150.7	52.9	77.0	79.7
1950.....	77.3	74.8	129.4	133.7	67.3	87.1	90.0
1951.....	83.9	78.5	119.2	127.4	78.2	93.2	99.6
1952.....	88.7	84.5	112.7	118.4	84.4	95.1	99.9
1953.....	88.0	86.6	113.7	115.4	74.5	84.7	86.0
1954.....	88.9	88.7	112.5	112.7	76.9	86.5	86.7
1955.....	93.6	94.0	106.9	106.4	88.8	94.9	94.5
1956.....	104.0	102.6	96.2	97.5	104.2	100.2	101.6
1957.....	100.6	100.4	99.4	99.6	100.6	100.0	100.2
1958.....	97.2	98.9	102.9	101.1	96.0	98.8	97.1
1959.....	102.1	100.5	98.0	99.5	103.3	101.2	102.8
1960.....	100.7	96.2	99.3	103.9	104.5	103.8	108.6
1961.....	102.9	98.2	97.1	101.8	104.8	101.8	106.7
1962.....	105.8	100.2	94.6	99.8	108.4	102.5	108.2
1963.....	110.9	108.4	90.1	92.2	120.8	108.9	111.4
1964.....	115.7	112.6	86.4	88.8	129.0	111.5	114.6
1965.....	118.8	117.7	84.1	85.0	141.3	118.9	120.1
1966.....	122.8	123.9	81.4	80.7	149.3	121.6	120.5
1967 ²	121.9	121.8	82.0	82.1	144.8	118.8	118.9
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.0	3.1	-2.9	-3.0	5.3	2.3	2.2
1957-67	2.5	2.5	-2.4	-2.5	4.7	2.2	2.1

¹ Not available.

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 71. CONCRETE PRODUCTS SIC 3271,3272
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1947-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1947.....	53.1	51.2	188.3	195.4	40.9	77.0	79.9
1948.....	(²)	(²)	(²)	(²)	(²)	(²)	(²)
1949.....	64.4	62.2	155.4	160.7	52.9	82.2	85.0
1950.....	74.5	72.1	134.2	138.8	67.3	90.3	93.4
1951.....	81.5	75.6	122.6	132.4	78.2	95.9	103.5
1952.....	85.0	80.6	117.7	124.1	84.4	99.3	104.7
1953.....	84.2	83.1	118.8	120.4	74.5	88.5	89.7
1954.....	88.9	88.6	112.5	112.9	76.9	86.5	86.8
1955.....	92.6	93.2	108.0	107.3	88.8	95.9	95.3
1956.....	103.6	101.9	96.5	98.2	104.2	100.6	102.3
1957.....	101.1	100.8	98.9	99.2	100.6	99.5	99.8
1958.....	98.3	100.4	101.8	99.6	96.0	97.7	95.6
1959.....	100.5	98.7	99.5	101.4	103.3	102.8	104.7
1960.....	99.5	94.1	100.5	106.2	104.5	105.0	111.0
1961.....	102.6	96.6	97.4	103.5	104.8	102.1	108.5
1962.....	105.1	98.2	95.1	101.8	108.4	103.1	110.4
1963.....	112.7	109.1	88.7	91.6	120.8	107.2	110.7
1964.....	118.5	114.1	84.4	87.7	129.0	108.9	113.1
1965.....	120.4	118.6	83.1	84.3	141.3	117.4	119.1
1966.....	126.2	127.2	79.2	78.6	149.3	118.3	117.4
1967.....	125.9	125.0	79.4	80.0	144.8	115.0	115.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.5	3.6	-3.4	-3.5	5.3	1.8	1.7
1957-67	2.8	2.8	-2.8	-2.8	4.7	1.8	1.8

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 72. CONCRETE PRODUCTS SIC 3271,3272
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1947.....	123.6	(120.6)	80.9	(82.9)	40.9	33.1	(33.9)
1948.....	(³)	(³)	(³)	(³)	(³)	(³)	(³)
1949.....	88.9	(87.7)	112.5	(114.0)	52.9	59.5	(60.3)
1950.....	87.7	(86.8)	114.0	(115.2)	67.3	76.7	(77.5)
1951.....	92.9	(91.7)	107.7	(109.1)	78.2	84.2	(85.3)
1952.....	104.2	(102.8)	96.0	(97.3)	84.4	81.0	(82.1)
1953.....	103.6	(102.9)	96.5	(97.2)	74.5	71.9	(72.4)
1954.....	89.2	(88.8)	112.1	(112.6)	76.9	86.2	(86.6)
1955.....	97.0	(97.2)	103.0	(102.9)	88.8	91.5	(91.4)
1956.....	105.6	(105.4)	94.7	(94.9)	104.2	98.7	(98.9)
1957.....	99.1	(98.9)	100.9	(101.1)	100.6	101.5	(101.7)
1958.....	93.5	(93.4)	107.0	(107.1)	96.0	102.7	(102.8)
1959.....	107.8	(107.9)	92.7	(92.6)	103.3	95.8	(95.7)
1960.....	104.5	(104.7)	95.7	(95.5)	104.5	100.0	(99.8)
1961.....	103.8	(104.4)	96.4	(95.8)	104.8	101.0	(100.4)
1962.....	107.9	(108.2)	92.7	(92.4)	108.4	100.5	(100.2)
1963.....	105.5	(106.0)	94.8	(94.4)	120.8	114.5	(114.0)
1964.....	107.3	(107.3)	93.2	(93.2)	129.0	120.2	(120.2)
1965.....	113.7	(114.2)	88.0	(87.5)	141.3	124.3	(123.7)
1966.....	112.4	(113.4)	88.9	(88.1)	149.3	132.8	(131.6)
1967 ⁴	110.0	(111.0)	90.9	(90.1)	144.8	131.6	(130.5)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	0.7	(0.8)	-0.7	(-0.8)	5.3	4.6	(4.5)
1957-67	1.4	(1.5)	-1.3	(-1.4)	4.7	3.3	(3.2)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 73. STEEL SIC 331
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1947-68
(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1947.....	84.4	84.3	118.5	118.6	87.0	103.1	103.2
1948.....	85.8	84.8	116.5	117.9	91.6	106.7	108.0
1949.....	83.9	85.3	119.1	117.3	80.5	95.9	94.4
1950.....	95.9	93.9	104.2	106.5	101.7	106.0	108.3
1951.....	98.5	94.4	101.5	106.0	110.6	112.3	117.2
1952.....	97.2	95.0	102.9	105.2	97.5	100.3	102.6
1953.....	100.4	97.0	99.7	103.1	114.5	114.1	118.0
1954.....	90.3	92.6	110.7	108.0	91.7	101.5	99.0
1955.....	108.8	105.2	91.9	95.0	120.9	111.1	114.9
1956.....	107.1	103.7	93.4	96.5	119.0	111.1	114.8
1957.....	101.4	101.1	98.6	99.0	114.8	113.2	113.6
1958.....	90.8	93.5	110.1	107.0	85.8	94.5	91.8
1959.....	107.6	105.0	93.0	95.3	99.3	92.3	94.6
1960.....	97.2	98.6	102.9	101.4	99.5	102.4	100.9
1961.....	101.7	101.7	98.3	98.3	95.2	93.6	93.6
1962.....	107.5	106.9	93.0	93.5	100.2	93.2	93.7
1963.....	114.7	111.8	87.2	89.5	106.3	92.7	95.1
1964.....	122.0	116.6	81.9	85.7	120.7	98.9	103.5
1965.....	127.1	121.3	78.7	82.4	131.3	103.3	108.2
1966.....	128.9	123.7	77.6	80.8	132.1	102.5	106.8
1967.....	123.0	119.9	81.3	83.4	122.9	99.9	102.5
1968 ¹	130.4	125.3	76.7	79.8	130.3	99.9	104.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-68.....	1.9	1.8	-1.8	-1.7	1.5	-0.4	-0.3
1957-68.....	3.1	2.6	-3.0	-2.5	3.1	0.0	0.5

¹ 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 74. STEEL SIC 331
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1947-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1947.....	78.6	78.4	127.2	127.6	87.0	110.7	111.0
1948.....	80.1	78.8	124.9	126.9	91.6	114.4	116.2
1949.....	79.3	80.8	126.1	123.7	80.5	101.5	99.6
1950.....	90.0	87.7	111.1	114.0	101.7	113.0	115.9
1951.....	92.6	88.1	108.0	113.6	110.6	119.5	125.6
1952.....	93.5	90.9	107.0	110.1	97.5	104.3	107.3
1953.....	95.8	92.0	104.4	108.6	114.5	119.5	124.4
1954.....	87.2	89.7	114.7	111.5	91.7	105.2	102.2
1955.....	103.9	99.8	96.3	100.2	120.9	116.4	121.2
1956.....	103.7	99.7	96.4	100.3	119.0	114.7	119.4
1957.....	99.3	98.8	100.7	101.2	114.8	115.6	116.2
1958.....	91.6	95.0	109.2	105.2	85.8	93.7	90.3
1959.....	109.5	106.2	91.3	94.2	99.3	90.7	93.5
1960.....	97.7	99.6	102.3	100.4	99.5	101.8	99.9
1961.....	103.4	103.3	96.7	96.8	95.2	92.1	92.2
1962.....	109.3	108.4	91.5	92.2	100.2	91.7	92.4
1963.....	115.2	111.5	86.8	89.7	106.3	92.3	95.3
1964.....	121.6	114.7	82.3	87.2	120.7	99.3	105.2
1965.....	126.6	119.6	79.0	83.6	131.3	103.7	109.8
1966.....	129.1	122.7	77.4	81.5	132.1	102.3	107.7
1967.....	125.3	121.1	79.8	82.6	122.9	98.1	101.5
1968 ²	133.8	127.0	74.8	78.7	130.3	97.4	102.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	2.3	2.2	-2.3	-2.1	1.5	-0.9	-0.7
1957-68	3.2	2.6	-3.1	-2.5	3.1	-0.1	0.6

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 75. STEEL SIC 331
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1947-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1947.....	125.9	(124.8)	79.4	(80.1)	87.0	69.1	(69.7)
1948.....	126.3	(125.5)	79.1	(79.7)	91.6	72.5	(73.0)
1949.....	112.9	(112.3)	88.6	(89.1)	80.5	71.3	(71.7)
1950.....	135.8	(135.1)	73.6	(74.0)	101.7	74.9	(75.3)
1951.....	137.2	(136.7)	72.9	(73.1)	110.6	80.6	(80.9)
1952.....	118.2	(117.9)	84.6	(84.8)	97.5	82.5	(82.7)
1953.....	126.7	(126.5)	79.0	(79.0)	114.5	90.4	(90.5)
1954.....	107.9	(107.9)	92.7	(92.7)	91.7	85.0	(85.0)
1955.....	138.0	(138.0)	72.5	(72.5)	120.9	87.6	(87.6)
1956.....	125.1	(125.1)	79.9	(79.9)	119.0	95.1	(95.1)
1957.....	112.0	(112.0)	89.3	(89.3)	114.8	102.5	(102.5)
1958.....	87.6	(87.6)	114.2	(114.2)	85.8	98.0	(98.0)
1959.....	99.8	(99.8)	100.2	(100.2)	99.3	99.5	(99.5)
1960.....	94.6	(94.8)	105.7	(105.5)	99.5	105.2	(105.0)
1961.....	95.0	(95.5)	105.3	(104.7)	95.2	100.2	(99.7)
1962.....	100.5	(101.2)	99.5	(98.8)	100.2	99.7	(99.0)
1963.....	112.1	(112.8)	89.2	(88.6)	106.3	94.8	(94.2)
1964.....	124.2	(125.1)	80.5	(80.0)	120.7	97.2	(96.5)
1965.....	129.1	(130.0)	77.5	(76.9)	131.3	101.7	(101.0)
1966.....	127.6	(128.5)	78.3	(77.8)	132.1	103.5	(102.8)
1967.....	114.3	(115.1)	87.5	(86.9)	122.9	107.5	(106.8)
1968 ³	117.6	(118.3)	85.0	(84.5)	130.3	110.8	(110.1)
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	-0.5	(-0.5)	0.5	(0.5)	1.5	2.0	(1.9)
1957-68	2.5	(2.6)	-2.5	(-2.5)	3.1	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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 76. GRAY IRON FOUNDRIES SIC 3321
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1954-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1954.....	94.0	92.8	106.3	107.7	100.9	107.3	108.7
1955.....	107.2	100.1	93.3	99.9	124.2	115.9	124.1
1956.....	103.8	99.4	96.4	100.6	118.6	114.3	119.3
1957.....	96.4	96.6	103.7	103.5	105.1	109.0	108.8
1958.....	96.9	100.1	103.2	99.9	87.4	90.2	87.3
1959.....	106.6	103.4	93.8	96.7	107.5	100.8	104.0
1960.....	102.5	102.8	97.6	97.3	99.7	97.3	97.0
1961.....	103.7	105.4	96.4	94.9	94.5	91.1	89.7
1962.....	112.7	109.5	88.8	91.4	107.6	95.5	98.3
1963.....	118.8	111.8	84.2	89.4	114.6	96.5	102.5
1964.....	130.1	118.0	76.8	84.7	131.7	101.2	111.6
1965.....	136.6	123.0	73.2	81.3	147.5	108.0	119.9
1966.....	134.4	122.9	74.4	81.4	151.5	112.7	123.3
1967 ¹	123.5	117.5	81.0	85.1	141.4	114.5	120.3
AVERAGE ANNUAL RATES (PERCENT)							
1954-67	2.6	2.1	-2.6	-2.0	2.5	-0.1	0.4
1957-67	3.6	2.4	-3.5	-2.4	5.0	1.4	2.5

¹ Preliminary.

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

TABLE 77. GRAY IRON FOUNDRIES SIC 3321
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1954-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1954.....	92.1	90.9	108.5	110.0	100.9	109.5	111.0
1955.....	104.8	97.0	95.4	103.1	124.2	118.5	128.0
1956.....	102.2	97.5	97.8	102.6	118.6	116.0	121.7
1957.....	95.7	96.0	104.5	104.2	105.1	109.8	109.5
1958.....	98.0	101.9	102.1	98.2	87.4	89.2	85.8
1959.....	106.4	102.7	94.0	97.4	107.5	101.0	104.7
1960.....	103.2	103.6	96.9	96.5	99.7	96.6	96.2
1961.....	104.8	106.7	95.4	93.8	94.5	90.2	88.6
1962.....	113.0	109.3	88.5	91.4	107.6	95.2	98.4
1963.....	118.8	110.9	84.2	90.1	114.6	96.5	103.3
1964.....	129.6	115.9	77.1	86.3	131.7	101.6	113.6
1965.....	136.1	121.0	73.5	82.6	147.5	108.4	121.9
1966.....	134.1	121.0	74.6	82.6	151.5	113.0	125.2
1967 ²	124.3	117.3	80.5	85.2	141.4	113.8	120.5
AVERAGE ANNUAL RATES (PERCENT)							
1954-67	2.8	2.1	-2.7	-2.1	2.5	-0.2	0.4
1957-67	3.6	2.3	-3.5	-2.2	5.0	1.4	2.7

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Preliminary.

Source: Output based on data from the Bureau of the Census, U.S. Department of Commerce, 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 78. GRAY IRON FOUNDRIES SIC 3321
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1954-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1954.....	108.5	(108.0)	92.2	(92.6)	100.9	93.0	(93.4)
1955.....	126.0	(126.1)	79.4	(79.3)	124.2	98.6	(98.5)
1956.....	114.6	(114.4)	87.3	(87.4)	118.6	103.5	(103.7)
1957.....	101.4	(101.3)	98.7	(98.8)	105.1	103.7	(103.8)
1958.....	90.4	(90.4)	110.6	(110.6)	87.4	96.7	(96.7)
1959.....	107.9	(108.0)	92.7	(92.6)	107.5	99.6	(99.5)
1960.....	97.5	(97.5)	102.6	(102.6)	99.7	102.3	(102.3)
1961.....	97.9	(98.0)	102.1	(102.0)	94.5	96.5	(96.4)
1962.....	110.1	(109.8)	90.8	(91.1)	107.6	97.7	(98.0)
1963.....	118.3	(117.9)	84.6	(84.8)	114.6	96.9	(97.2)
1964.....	134.1	(133.2)	74.6	(75.1)	131.7	98.2	(98.9)
1965.....	139.4	(138.9)	71.7	(72.0)	147.5	105.8	(106.2)
1966.....	137.1	(137.2)	72.9	(72.9)	151.5	110.5	(110.4)
1967.....	118.8	(118.9)	84.2	(84.1)	141.4	119.0	(118.9)
AVERAGE ANNUAL RATES (PERCENT)							
1954-67	1.6	(1.6)	-1.6	(-1.6)	2.5	0.9	(0.9)
1957-67	3.8	(3.7)	-3.6	(-3.6)	5.0	1.2	(1.2)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 79. PRIMARY COPPER, LEAD AND ZINC SIC 3331, 3332, 3333
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	(¹)	(¹)	(¹)	(¹)	74.7	(¹)	(¹)
1947.....	82.4	76.2	121.3	131.2	95.7	116.1	125.6
1948.....	(¹)	(¹)	(¹)	(¹)	93.6	(¹)	(¹)
1949.....	83.1	79.9	120.4	125.1	91.2	109.8	114.1
1950.....	92.8	88.5	107.7	113.0	102.2	110.1	115.5
1951.....	95.5	90.0	104.7	111.2	101.3	106.1	112.6
1952.....	97.7	91.8	102.3	108.9	103.0	105.4	112.2
1953.....	97.2	91.4	102.9	109.4	104.7	107.7	114.5
1954.....	90.2	90.6	110.9	110.4	96.4	106.9	106.4
1955.....	103.3	101.0	96.8	99.0	109.7	106.2	108.6
1956.....	106.1	102.5	94.3	97.6	119.0	112.2	116.1
1957.....	104.5	103.0	95.7	97.1	116.2	111.2	112.8
1958.....	100.9	101.0	99.1	99.0	100.5	99.6	99.5
1959.....	93.4	95.0	107.1	105.3	83.3	89.2	87.7
1960.....	107.7	106.0	92.9	94.4	108.2	100.5	102.1
1961.....	113.4	110.8	88.2	90.3	109.8	96.8	99.1
1962.....	120.2	117.7	83.2	85.0	115.3	95.9	98.0
1963.....	121.8	120.4	82.1	83.1	114.1	93.7	94.8
1964.....	125.3	125.1	79.8	80.0	119.8	95.6	95.8
1965.....	131.6	129.1	76.0	77.5	126.6	96.2	98.1
1966.....	131.3	127.4	76.2	78.5	130.2	99.2	102.2
1967.....	114.5	111.9	87.3	89.3	89.1	77.8	79.6
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	2.1	2.4	-2.1	-2.3	0.9	-1.2	-1.5
1957-67	2.7	2.5	-2.6	-2.4	1.1	-1.5	-1.3

¹ Not available.

² 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 80. PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	69.9	68.7	143.0	145.6	74.7	106.8	108.8
1947.....	76.6	70.6	130.6	141.7	95.7	125.0	135.6
1948.....	(²)	(²)	(²)	(²)	93.6	(²)	(²)
1949.....	80.4	77.2	124.5	129.6	91.2	113.5	118.2
1950.....	88.9	84.5	112.4	118.4	102.2	114.9	121.0
1951.....	92.9	86.9	107.7	115.1	101.3	109.1	116.6
1952.....	94.9	88.6	105.3	112.9	103.0	108.5	116.3
1953.....	93.6	87.5	106.8	114.2	104.7	111.8	119.6
1954.....	89.3	89.8	112.0	111.3	96.4	108.0	107.3
1955.....	101.3	98.7	98.7	101.4	109.7	108.3	111.2
1956.....	103.1	99.2	97.0	100.8	119.0	115.4	119.9
1957.....	102.6	101.0	97.5	99.0	116.2	113.3	115.0
1958.....	101.8	101.8	98.2	98.2	100.5	98.7	98.7
1959.....	94.7	96.5	105.6	103.6	83.3	88.0	86.3
1960.....	107.1	105.2	93.3	95.1	108.2	101.0	102.9
1961.....	113.4	110.2	88.2	90.7	109.8	96.8	99.6
1962.....	119.6	116.7	83.6	85.7	115.3	96.4	98.8
1963.....	120.1	118.5	83.3	84.4	114.1	95.0	96.3
1964.....	122.6	122.6	81.6	81.6	119.8	97.7	97.7
1965.....	128.7	126.0	77.7	79.4	126.6	98.4	100.5
1966.....	128.7	124.4	77.7	80.4	130.2	101.2	104.7
1967 ³	120.6	114.5	82.9	87.3	89.1	73.9	77.8
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	2.4	2.7	-2.4	-2.6	0.9	-1.5	-1.7
1957-67	2.8	2.4	-2.7	-2.3	1.1	-1.6	-1.3

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent 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. Employment and hours based on data from the Bureau of the Census, U.S. Department of Commerce.

TABLE 81. PRIMARY COPPER, LEAD, AND ZINC SIC 3331, 3332, 3333
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-67

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	74.7	(³)	(³)
1947.....	129.1	(126.3)	77.4	(79.2)	95.7	74.1	(75.8)
1948.....	(³)	(³)	(³)	(³)	93.6	(³)	(³)
1949.....	98.4	(97.3)	101.6	(102.7)	91.2	92.7	(93.7)
1950.....	117.1	(115.9)	85.4	(86.3)	102.2	87.3	(88.2)
1951.....	110.5	(109.0)	90.5	(91.7)	101.3	91.7	(92.9)
1952.....	113.3	(111.8)	88.3	(89.4)	103.0	90.9	(92.1)
1953.....	118.3	(117.5)	84.5	(85.1)	104.7	88.5	(89.1)
1954.....	95.0	(94.5)	105.3	(105.8)	96.4	101.5	(102.0)
1955.....	114.0	(114.3)	87.7	(87.5)	109.7	96.2	(96.0)
1956.....	122.6	(122.4)	81.6	(81.7)	119.0	97.1	(97.2)
1957.....	114.1	(114.0)	87.6	(87.7)	116.2	101.8	(101.9)
1958.....	97.1	(97.1)	103.0	(103.0)	100.5	103.5	(103.5)
1959.....	88.0	(88.1)	113.7	(113.6)	83.3	94.7	(94.6)
1960.....	110.2	(110.2)	90.8	(90.8)	108.2	98.2	(98.2)
1961.....	113.5	(113.8)	88.1	(87.9)	109.8	96.7	(96.5)
1962.....	123.2	(122.8)	81.2	(81.4)	115.3	93.6	(93.9)
1963.....	130.4	(130.1)	76.7	(76.9)	114.1	87.5	(87.7)
1964.....	139.6	(138.7)	71.6	(72.1)	119.8	85.8	(86.4)
1965.....	147.2	(146.7)	67.9	(68.2)	126.6	86.0	(86.3)
1966.....	145.0	(145.2)	69.0	(68.9)	130.2	89.8	(89.7)
1967 ⁴	99.2	(99.3)	100.8	(100.7)	89.1	89.8	(89.7)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	0.7	(0.8)	-0.7	(-0.8)	0.9	0.2	(0.1)
1957-67	2.8	(2.8)	-2.7	(-2.7)	1.1	-1.7	(-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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 82.PRIMARY ALUMINUM SIC 3334
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
 ALL EMPLOYEES, 1947-67
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1947.....	68.1	64.6	146.9	154.9	32.6	47.9	50.5
1948.....	(¹)	(¹)	(¹)	(¹)	35.7	(¹)	(¹)
1949.....	72.4	66.1	138.0	151.3	34.7	47.9	52.5
1950.....	72.6	72.4	137.8	138.1	41.5	57.2	57.3
1951.....	74.3	70.8	134.6	141.2	48.5	65.3	68.5
1952.....	71.3	69.3	140.3	144.3	54.6	76.6	78.8
1953.....	69.6	69.8	143.6	143.2	73.2	105.1	104.8
1954.....	77.4	76.7	129.2	130.5	85.7	110.7	111.8
1955.....	85.2	85.0	117.4	117.7	91.6	107.5	107.8
1956.....	86.4	87.3	115.7	114.6	98.0	113.4	112.3
1957.....	87.1	87.7	114.8	114.0	95.9	110.1	109.3
1958.....	97.3	97.5	102.8	102.5	90.8	93.3	93.1
1959.....	117.3	116.1	85.3	86.1	113.3	96.6	97.6
1960.....	121.3	121.4	82.4	82.4	116.2	95.8	95.7
1961.....	125.7	126.2	79.5	79.3	109.4	87.0	86.7
1962.....	131.1	132.4	76.3	75.5	121.3	92.5	91.6
1963.....	135.5	136.9	73.8	73.0	132.0	97.4	96.4
1964.....	133.4	141.3	74.9	70.8	145.7	109.2	103.1
1965.....	141.7	145.2	70.5	68.9	157.2	110.9	108.3
1966.....	149.3	150.8	67.0	66.3	169.4	113.5	112.3
1967 ²	145.1	148.7	68.9	67.3	186.6	128.6	125.5
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	4.8	5.2	-4.6	-5.0	8.8	3.7	3.3
1957-67	4.7	5.1	-4.5	-4.8	7.0	2.2	1.8

¹ Not available.

² 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 83.PRIMARY ALUMINUM SIC 3334
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
PRODUCTION WORKERS, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1947.....	65.3	61.9	153.1	161.7	32.6	49.9	52.7
1948.....	(²)	(²)	(²)	(²)	35.7	(²)	(²)
1949.....	69.8	62.9	143.2	159.1	34.7	49.7	55.2
1950.....	68.8	69.3	145.3	144.3	41.5	60.3	59.9
1951.....	70.4	67.1	142.1	149.1	48.5	68.9	72.3
1952.....	68.4	66.6	146.2	150.2	54.6	79.8	82.0
1953.....	64.4	65.1	155.3	153.7	73.2	113.7	112.5
1954.....	74.2	73.7	134.8	135.7	85.7	115.5	116.3
1955.....	82.2	82.2	121.6	121.7	91.6	111.4	111.5
1956.....	84.6	85.7	118.3	116.6	98.0	115.9	114.3
1957.....	86.4	87.2	115.7	114.7	95.9	111.0	110.0
1958.....	99.5	99.5	100.6	100.6	90.8	91.3	91.3
1959.....	116.0	114.7	86.2	87.2	113.3	97.7	98.8
1960.....	121.0	121.3	82.6	82.4	116.2	96.0	95.8
1961.....	127.2	127.5	78.6	78.4	109.4	86.0	85.8
1962.....	130.4	132.0	76.7	75.8	121.3	93.0	91.9
1963.....	134.3	136.1	74.5	73.5	132.0	98.3	97.0
1964.....	128.3	138.2	78.0	72.3	145.7	113.6	105.4
1965.....	137.8	142.4	72.6	70.2	157.2	114.1	110.4
1966.....	146.2	148.3	68.4	67.4	169.4	115.9	114.2
1967 ³	144.4	149.3	69.2	67.0	186.6	129.2	125.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	5.0	5.5	-4.8	-5.2	8.8	3.5	3.0
1957-67	4.5	4.9	-4.3	-4.7	7.0	2.4	2.0

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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.

TABLE 84.PRIMARY ALUMINUM SIC 3334
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
NONPRODUCTION WORKERS, 1947-67

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1947.....	80.7	(78.9)	123.9	(126.7)	32.6	40.4	(41.3)
1948.....	(³)	(³)	(³)	(³)	35.7	(³)	(³)
1949.....	84.2	(83.2)	118.7	(120.2)	34.7	41.2	(41.7)
1950.....	90.6	(89.8)	110.4	(111.3)	41.5	45.8	(46.2)
1951.....	93.6	(92.6)	106.8	(108.0)	48.5	51.8	(52.4)
1952.....	84.4	(83.2)	118.5	(120.1)	54.6	64.7	(65.6)
1953.....	101.0	(100.3)	99.0	(99.7)	73.2	72.5	(73.0)
1954.....	92.2	(91.9)	108.5	(108.9)	85.7	93.0	(93.3)
1955.....	98.7	(98.9)	101.3	(101.1)	91.6	97.8	(92.6)
1956.....	94.3	(94.1)	106.0	(106.2)	98.0	103.9	(104.1)
1957.....	90.0	(90.0)	111.1	(111.2)	95.9	106.5	(106.6)
1958.....	90.1	(90.1)	111.0	(111.0)	90.8	100.8	(100.8)
1959.....	122.2	(122.4)	81.8	(81.7)	113.3	92.7	(92.6)
1960.....	122.2	(122.2)	81.8	(81.8)	116.2	95.1	(95.1)
1961.....	120.8	(121.0)	82.8	(82.6)	109.4	90.6	(90.4)
1962.....	134.2	(133.7)	74.5	(74.8)	121.3	90.4	(90.7)
1963.....	140.9	(140.4)	71.0	(71.2)	132.0	93.7	(94.0)
1964.....	157.3	(156.2)	63.6	(64.0)	145.7	92.6	(93.3)
1965.....	158.3	(157.8)	63.2	(63.4)	157.2	99.3	(99.6)
1966.....	162.4	(162.6)	61.6	(61.5)	169.4	104.3	(104.2)
1967 ⁴	146.2	(146.5)	68.4	(68.3)	186.6	127.6	(127.4)
AVERAGE ANNUAL RATES (PERCENT)							
1947-67	3.7	(3.8)	-3.6	(-3.7)	8.8	4.8	(4.7)
1957-67	5.8	(5.8)	-5.5	(-5.5)	7.0	1.1	(1.1)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 85.ALUMINUM ROLLING AND DRAWING SIC 3352
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
 ALL EMPLOYEES, 1958-67

(INDEXES, 1958 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1958.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1959.....	110.2	107.9	90.7	92.7	130.2	118.1	120.7
1960.....	103.8	102.3	96.3	97.8	116.6	112.3	114.0
1961.....	114.7	112.4	87.2	88.9	127.4	111.1	113.3
1962.....	123.6	122.0	80.9	82.0	143.5	116.1	117.6
1963.....	137.4	135.4	72.8	73.9	159.1	115.8	117.5
1964.....	150.0	147.0	66.6	68.0	179.6	119.7	122.2
1965.....	171.0	165.0	58.5	60.6	210.0	122.8	127.3
1966.....	175.9	169.7	56.9	58.9	237.8	135.2	140.1
1967 ¹	168.4	168.6	59.4	59.3	226.3	134.4	134.2
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	7.1	7.0	-6.7	-6.5	9.9	2.6	2.7

¹ Preliminary.

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

TABLE 86. ALUMINUM ROLLING AND DRAWING SIC 3352
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1958-67

(INDEXES, 1958 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1958.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1959.....	107.0	104.4	93.5	95.8	130.2	121.7	124.7
1960.....	103.9	102.0	96.2	98.0	116.6	112.2	114.3
1961.....	114.0	111.3	87.8	89.9	127.4	111.8	114.5
1962.....	122.2	120.6	81.8	82.9	143.5	117.4	119.0
1963.....	135.6	133.4	73.7	75.0	159.1	117.3	119.3
1964.....	147.9	144.6	67.6	69.2	179.6	121.4	124.2
1965.....	168.1	161.2	59.5	62.0	210.0	124.9	130.3
1966.....	170.8	163.8	58.5	61.1	237.8	139.2	145.2
1967 ²	164.9	165.5	60.6	60.4	226.3	137.2	136.7
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	6.9	6.8	-6.5	-6.4	9.9	2.8	2.9

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Preliminary.

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

TABLE 87. ALUMINUM ROLLING AND DRAWING SIC 3352
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1958-67

(INDEXES, 1958 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1958.....	100.0	(100.0)	100.0	(100.0)	100.0	100.0	(100.0)
1959.....	123.2	(123.3)	81.2	(81.1)	130.2	105.7	(105.6)
1960.....	103.6	(103.6)	96.6	(96.6)	116.6	112.6	(112.6)
1961.....	116.9	(117.1)	85.6	(85.4)	127.4	109.0	(108.8)
1962.....	128.7	(128.2)	77.7	(78.0)	143.5	111.5	(111.9)
1963.....	144.2	(143.7)	69.3	(69.6)	159.1	110.3	(110.7)
1964.....	157.8	(156.7)	63.4	(63.8)	179.6	113.8	(114.6)
1965.....	182.1	(181.7)	54.9	(55.0)	210.0	115.3	(115.6)
1966.....	196.7	(196.9)	50.8	(50.8)	237.8	120.9	(120.8)
1967.....	181.6	(181.9)	55.1	(55.0)	226.3	124.6	(124.4)
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	7.9	(7.8)	-7.3	(-7.3)	9.9	1.9	(1.9)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 88. RADIO AND TELEVISION RECEIVING SETS SIC 3651
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1958-67

(INDEXES, 1958 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1958.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1959.....	106.9	106.9	93.5	93.5	120.4	112.6	112.6
1960.....	109.3	109.6	91.5	91.3	117.9	107.9	107.6
1961.....	109.6	112.1	91.2	89.2	126.6	115.5	112.9
1962.....	124.5	125.0	80.3	80.0	155.3	124.7	124.2
1963.....	138.7	138.9	72.1	72.0	169.5	122.2	122.0
1964.....	142.9	140.6	70.0	71.1	185.9	130.1	132.2
1965.....	160.8	156.4	62.2	64.0	242.2	150.6	154.9
1966.....	163.4	162.3	61.2	61.6	319.8	195.7	197.1
1967 ¹	172.7	177.0	57.9	56.5	311.5	180.4	176.0
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	6.7	6.6	-6.3	-6.2	14.2	7.0	7.1

¹ Preliminary.

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

TABLE 89. RADIO AND TELEVISION RECEIVING SETS SIC 3651
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1958-67

YEAR	OUTPUT PER---		UNIT LABOR REQUIREMENTS IN TERMS OF---		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1958.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1959.....	104.2	104.2	96.0	96.0	120.4	115.6	115.6
1960.....	109.1	109.3	91.7	91.5	117.9	108.1	107.9
1961.....	110.7	113.5	90.4	88.1	126.6	114.4	111.5
1962.....	122.4	122.7	81.7	81.5	155.3	126.9	126.6
1963.....	132.6	132.6	75.4	75.4	169.5	127.8	127.8
1964.....	136.5	133.6	73.3	74.8	185.9	136.2	139.1
1965.....	151.7	146.4	65.9	68.3	242.2	159.7	165.4
1966.....	151.6	150.2	65.9	66.6	319.8	210.9	212.9
1967 ²	163.8	168.3	61.1	59.4	311.5	190.2	185.1
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	5.9	5.8	-5.6	-5.5	14.2	7.9	8.0

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² Preliminary.

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

TABLE 90. RADIO AND TELEVISION RECEIVING SETS SIC 3651
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1958-67

(INDEXES, 1958 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1958.....	100.0	(100.0)	100.0	(100.0)	100.0	100.0	(100.0)
1959.....	118.4	(118.5)	84.5	(84.4)	120.4	101.7	(101.6)
1960.....	110.2	(110.8)	90.8	(90.2)	117.9	107.0	(106.4)
1961.....	105.9	(107.4)	94.4	(93.1)	126.6	119.5	(117.9)
1962.....	132.8	(134.8)	75.3	(74.2)	155.3	116.9	(115.2)
1963.....	166.3	(169.0)	60.1	(59.2)	169.5	101.9	(100.3)
1964.....	172.0	(173.9)	58.1	(57.5)	185.9	108.1	(106.9)
1965.....	205.6	(208.8)	48.6	(47.9)	242.2	117.8	(116.0)
1966.....	226.8	(231.2)	44.1	(43.2)	319.8	141.0	(138.3)
1967 ³	214.5	(218.8)	46.6	(45.7)	311.5	145.2	(142.4)
AVERAGE ANNUAL RATES (PERCENT)							
1958-67	10.3	(10.6)	-9.4	(-9.6)	14.2	3.5	(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 The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 91.MOTOR VEHICLES AND EQUIPMENT SIC 371
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
 ALL EMPLOYEES, 1957-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1957.....	99.2	98.7	100.8	101.4	110.7	111.6	112.2
1958.....	94.1	95.9	106.3	104.2	82.8	88.0	86.3
1959.....	106.1	104.9	94.3	95.3	106.5	100.4	101.5
1960.....	114.9	113.9	87.1	87.8	120.6	105.0	105.9
1961.....	114.1	115.3	87.7	86.7	104.6	91.7	90.7
1962.....	131.9	126.7	75.8	78.9	132.3	100.3	104.4
1963.....	137.5	131.6	72.7	76.0	147.8	107.5	112.3
1964.....	139.5	133.0	71.7	75.2	152.3	109.2	114.5
1965.....	152.2	141.8	65.7	70.5	186.0	122.2	131.2
1966.....	149.3	142.6	67.0	70.2	186.6	125.0	130.9
1967 ¹	145.6	144.9	68.7	69.0	172.2	118.3	118.8
1968 ¹	166.9	158.4	59.9	63.1	210.4	126.1	132.8
AVERAGE ANNUAL RATES (PERCENT)							
1957-68	5.1	4.5	-4.8	-4.3	7.6	2.4	3.0

¹Preliminary.

Source: Output based on data from company records; Automobile Manufacturers; 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 92.MOTOR VEHICLES AND EQUIPMENT SIC 371
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
 PRODUCTION WORKERS, 1957-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ¹	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1957.....	97.6	96.9	102.4	103.2	110.7	113.4	114.2
1958.....	97.1	99.4	103.0	100.6	82.8	85.3	83.3
1959.....	105.1	103.9	95.1	96.2	106.5	101.3	102.5
1960.....	113.6	112.5	88.1	88.9	120.6	106.2	107.2
1961.....	115.8	117.4	86.3	85.2	104.6	90.3	89.1
1962.....	131.5	125.0	76.0	80.0	132.3	100.6	105.8
1963.....	136.7	129.8	73.1	77.1	147.8	108.1	113.9
1964.....	139.5	131.7	71.7	75.9	152.3	109.2	115.6
1965.....	149.8	137.7	66.8	72.6	186.0	124.2	135.1
1966.....	147.7	140.2	67.7	71.3	186.6	126.3	133.1
1967 ²	145.8	145.1	68.6	68.9	172.2	118.1	118.7
1968 ²	164.8	155.3	60.7	64.4	210.4	127.7	135.5
AVERAGE ANNUAL RATES (PERCENT)							
1957-68	4.9	4.3	-4.7	-4.1	7.6	2.6	3.2

¹ The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

² 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 Year-books); 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.

TABLE 93. MOTOR VEHICLES AND EQUIPMENT SIC 371
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1957-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR ¹	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS ¹
1957.....	104.9	(104.6)	95.3	(95.6)	110.7	105.5	(105.8)
1958.....	85.4	(86.4)	117.1	(115.7)	82.8	97.0	(95.8)
1959.....	109.2	(108.2)	91.5	(92.4)	106.5	97.5	(98.4)
1960.....	119.1	(118.5)	84.0	(84.4)	120.6	101.3	(101.8)
1961.....	108.4	(109.3)	92.3	(91.5)	104.6	96.5	(95.7)
1962.....	133.2	(132.2)	75.1	(75.7)	132.3	99.3	(100.1)
1963.....	140.0	(138.0)	71.4	(72.5)	147.8	105.6	(107.1)
1964.....	139.2	(137.1)	71.8	(72.9)	152.3	109.4	(111.1)
1965.....	160.8	(157.0)	62.2	(63.7)	186.0	115.7	(118.5)
1966.....	154.9	(151.0)	64.6	(66.2)	186.6	120.5	(123.6)
1967 ³	144.7	(144.3)	69.1	(69.3)	172.2	119.0	(119.3)
1968 ³	174.2	(169.4)	57.4	(59.0)	210.4	120.8	(124.2)
AVERAGE ANNUAL RATES (PERCENT)							
1957-68	5.4	(5.2)	-5.1	(-4.9)	7.6	2.1	(2.3)

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

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 94. RAILROAD TRANSPORTATION-REVENUE TRAFFIC¹SIC 401
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
ALL EMPLOYEES, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	54.5	48.4	183.3	206.7	60.0	110.0	124.0
1947.....	78.3	66.4	127.6	150.6	118.3	151.0	178.2
1948.....	77.0	65.3	129.9	153.2	114.2	148.3	174.9
1949.....	70.8	63.7	141.2	157.0	94.6	133.6	148.5
1950.....	75.5	72.8	132.4	137.4	103.5	137.0	142.2
1951.....	79.3	77.1	126.1	129.8	113.6	143.3	147.4
1952.....	78.5	77.2	127.4	129.5	108.3	138.0	140.2
1953.....	78.2	77.7	127.9	128.7	106.2	135.8	136.7
1954.....	80.4	80.9	124.4	123.6	96.5	120.0	119.3
1955.....	90.6	89.4	110.4	111.8	108.1	119.3	120.9
1956.....	94.7	93.7	105.6	106.7	111.8	118.1	119.3
1957.....	95.1	95.1	105.2	105.2	106.5	112.0	112.0
1958.....	99.7	99.9	100.3	100.1	95.1	95.4	95.2
1959.....	106.4	106.1	94.0	94.2	98.5	92.6	92.8
1960.....	110.1	110.4	90.8	90.6	97.7	88.7	88.5
1961.....	117.8	118.2	84.9	84.6	96.0	81.5	81.2
1962.....	126.5	125.9	79.0	79.4	100.6	79.5	79.9
1963.....	135.6	133.9	73.7	74.7	104.7	77.2	78.2
1964.....	146.4	142.5	68.3	70.2	110.4	75.4	77.5
1965.....	161.2	157.5	62.0	63.5	116.2	72.1	73.8
1966.....	172.8	169.2	57.9	59.1	122.5	70.9	72.4
1967.....	173.4	173.4	57.7	57.7	118.8	68.5	68.5
1968 ²	183.9	181.1	54.4	55.2	121.9	66.3	67.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	4.8	5.2	-4.5	-5.0	0.3	-4.3	-4.7
1957-68	6.6	6.4	-6.2	-6.0	2.2	-4.1	-3.9

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

² Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 95. RAILROAD TRANSPORTATION-REVENUE TRAFFIC¹ SIC 401
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
PRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ²	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	54.1	47.8	185.0	209.2	60.0	111.0	125.5
1947.....	76.6	64.4	130.6	155.3	118.3	154.5	183.7
1948.....	75.3	63.4	132.7	157.6	114.2	151.6	180.0
1949.....	69.7	62.4	143.4	160.3	94.6	135.7	151.6
1950.....	74.2	71.1	134.7	140.7	103.5	139.4	145.6
1951.....	77.6	75.1	128.8	133.1	113.6	146.3	151.2
1952.....	77.1	75.5	129.7	132.4	108.3	140.5	143.4
1953.....	76.9	76.1	130.0	131.5	106.2	138.1	139.6
1954.....	79.7	79.9	125.5	125.2	96.5	121.1	120.8
1955.....	89.7	88.3	111.5	113.2	108.1	120.5	122.4
1956.....	93.8	92.7	106.6	107.9	111.8	119.2	120.6
1957.....	94.5	94.4	105.8	105.9	106.5	112.7	112.8
1958.....	100.0	100.2	100.0	99.8	95.1	95.1	94.9
1959.....	106.8	106.6	93.6	93.8	98.5	92.2	92.4
1960.....	110.8	111.1	90.3	90.0	97.7	88.2	87.9
1961.....	119.0	119.7	84.1	83.5	96.0	80.7	80.2
1962.....	128.0	127.2	78.1	78.6	100.6	78.6	79.1
1963.....	137.2	135.3	72.9	73.9	104.7	76.3	77.4
1964.....	148.2	143.9	67.5	69.5	110.4	74.5	76.7
1965.....	163.7	159.8	61.1	62.6	116.2	71.0	72.7
1966.....	176.0	171.6	56.8	58.3	122.5	69.6	71.4
1967.....	177.3	175.7	56.4	56.9	118.8	67.0	67.6
1968 ³	188.1	183.6	53.2	54.5	121.9	64.8	66.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	5.0	5.5	-4.8	-5.2	0.3	-4.5	-4.9
1957-68	6.8	6.5	-6.4	-6.1	2.2	-4.3	-4.0

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 96. RAILROAD TRANSPORTATION-REVENUE TRAFFIC¹ SIC 401
OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
NONPRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS
1939.....	60.4	54.4	165.7	183.8	60.0	99.4	110.3
1947.....	102.8	92.9	97.3	107.6	118.3	115.1	127.3
1948.....	99.2	89.5	100.8	111.7	114.2	115.1	127.6
1949.....	83.6	79.0	119.6	126.5	94.6	113.1	119.7
1950.....	91.8	93.7	109.0	106.8	103.5	112.8	110.5
1951.....	100.4	101.8	99.6	98.2	113.6	113.2	111.6
1952.....	96.1	97.8	104.1	102.2	108.3	112.7	110.7
1953.....	94.6	96.4	105.7	103.8	106.2	112.3	110.2
1954.....	88.2	91.1	113.4	109.7	96.5	109.4	105.9
1955.....	100.8	100.9	99.2	99.1	108.1	107.2	107.1
1956.....	104.3	104.1	95.9	96.1	111.8	107.2	107.4
1957.....	101.5	101.5	98.5	98.5	106.5	104.9	104.9
1958.....	96.3	96.3	103.9	103.9	95.1	98.8	98.8
1959.....	102.4	102.3	97.7	97.8	98.5	96.2	96.3
1960.....	103.5	103.7	96.6	96.4	97.7	94.4	94.2
1961.....	106.2	106.8	94.2	93.6	96.0	90.4	89.9
1962.....	114.3	114.7	87.5	87.2	100.6	88.0	87.7
1963.....	121.5	122.0	82.3	81.9	104.7	86.2	85.8
1964.....	130.0	129.6	76.9	77.2	110.4	84.9	85.2
1965.....	139.0	138.8	71.9	72.0	116.2	83.6	83.7
1966.....	146.7	150.3	68.2	66.5	122.5	83.5	81.5
1967.....	142.8	154.7	70.0	64.6	118.8	83.2	76.8
1968 ³	148.1	159.6	67.5	62.7	121.9	82.3	76.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	2.2	2.7	-2.2	-2.6	0.3	-1.9	-2.3
1957-68	4.4	5.0	-4.2	-4.8	2.2	-2.1	-2.7

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 97. RAILROAD TRANSPORTATION-CAR-MILES¹ SIC 401
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER—		UNIT LABOR REQUIREMENTS IN TERMS OF—		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	71.5	63.4	139.9	157.8	78.6	110.0	124.0
1947.....	75.7	64.1	132.1	155.9	114.3	151.0	178.2
1948.....	75.4	63.9	132.6	156.4	111.8	148.3	174.9
1949.....	74.9	67.4	133.5	148.4	100.1	133.6	148.5
1950.....	76.9	74.1	130.1	135.0	105.3	137.0	142.2
1951.....	76.7	74.6	130.4	134.1	109.9	143.3	147.4
1952.....	78.1	76.9	128.0	130.1	107.8	138.0	140.2
1953.....	79.6	79.1	125.6	126.5	108.1	135.8	136.7
1954.....	84.2	84.7	118.8	118.1	101.0	120.0	119.3
1955.....	90.7	89.5	110.3	111.7	108.2	119.3	120.9
1956.....	92.5	91.5	108.2	109.2	109.2	118.1	119.3
1957.....	94.3	94.3	106.1	106.1	105.6	112.0	112.0
1958.....	101.2	101.4	98.9	98.7	96.5	95.4	95.2
1959.....	105.6	105.4	94.7	94.9	97.8	92.6	92.8
1960.....	108.2	108.5	92.4	92.2	96.0	88.7	88.5
1961.....	113.6	114.0	88.0	87.7	92.6	81.5	81.2
1962.....	118.5	117.9	84.4	84.8	94.2	79.5	79.9
1963.....	123.3	121.7	81.1	82.1	95.2	77.2	78.2
1964.....	129.2	125.7	77.4	79.6	97.4	75.4	77.5
1965.....	136.5	133.3	73.3	75.0	98.4	72.1	73.8
1966.....	142.9	139.9	70.0	71.5	101.3	70.9	72.4
1967.....	143.6	143.6	69.6	69.6	98.4	68.5	68.5
1968 ²	148.6	146.4	67.3	68.3	98.5	66.3	67.3
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	3.7	4.2	-3.6	-4.0	-0.7	-4.3	-4.7
1957-68	4.2	4.0	-4.1	-3.9	0.0	-4.1	-3.9

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

² Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 98. RAILROAD TRANSPORTATION-CAR-MILES¹ SIC 401
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 PRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER	PRODUCTION WORKER MAN-HOUR	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS	OUTPUT ²	PRODUCTION WORKERS	PRODUCTION WORKER MAN-HOURS
1939.....	70.8	62.6	141.2	159.7	78.6	111.0	125.5
1947.....	74.0	62.2	135.2	160.7	114.3	154.5	183.7
1948.....	73.7	62.1	135.6	161.0	111.8	151.6	180.0
1949.....	73.8	66.0	135.6	151.4	100.1	135.7	151.6
1950.....	75.5	72.3	132.4	138.3	105.3	139.4	145.6
1951.....	75.1	72.7	133.1	137.6	109.9	146.3	151.2
1952.....	76.7	75.2	130.3	133.0	107.8	140.5	143.4
1953.....	78.3	77.4	127.8	129.1	108.1	138.1	139.6
1954.....	83.4	83.6	119.9	119.6	101.0	121.1	120.8
1955.....	89.8	88.4	111.4	113.1	108.2	120.5	122.4
1956.....	91.6	90.5	109.2	110.4	109.2	119.2	120.6
1957.....	93.7	93.6	106.7	106.8	105.6	112.7	112.8
1958.....	101.5	101.7	98.5	98.3	96.5	95.1	94.9
1959.....	106.1	105.8	94.3	94.5	97.8	92.2	92.4
1960.....	108.8	109.2	91.9	91.6	96.0	88.2	87.9
1961.....	114.7	115.5	87.1	86.6	92.6	80.7	80.2
1962.....	119.8	119.1	83.4	84.0	94.2	78.6	79.1
1963.....	124.8	123.0	80.1	81.3	95.2	76.3	77.4
1964.....	130.7	127.0	76.5	78.7	97.4	74.5	76.7
1965.....	138.6	135.4	72.2	73.9	98.4	71.0	72.7
1966.....	145.5	141.9	68.7	70.5	101.3	69.6	71.4
1967.....	146.9	145.6	68.1	68.7	98.4	67.0	67.6
1968 ³	152.0	148.3	65.8	67.4	98.5	64.8	66.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	4.0	4.5	-3.8	-4.3	-0.7	-4.5	-4.9
1957-68	4.5	4.2	-4.3	-4.0	0.0	-4.3	-4.0

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 99. RAILROAD TRANSPORTATION-CAR-MILES¹ SIC 401
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 NONPRODUCTION WORKERS, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	NON- PRODUCTION WORKER	NON- PRODUCTION WORKER MAN-HOUR	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS	OUTPUT ²	NON- PRODUCTION WORKERS	NON- PRODUCTION WORKER MAN-HOURS
1939.....	79.1	71.3	126.5	140.3	78.6	99.4	110.3
1947.....	99.3	89.8	100.7	111.4	114.3	115.1	127.3
1948.....	97.1	87.6	103.0	114.1	111.8	115.1	127.6
1949.....	88.5	83.6	113.0	119.6	100.1	113.1	119.7
1950.....	93.4	95.3	107.1	104.9	105.3	112.8	110.5
1951.....	97.1	98.5	103.0	101.5	109.9	113.2	111.6
1952.....	95.7	97.4	104.5	102.7	107.8	112.7	110.7
1953.....	96.3	98.1	103.9	101.9	108.1	112.3	110.2
1954.....	92.3	95.4	108.3	104.9	101.0	109.4	105.9
1955.....	100.9	101.0	99.1	99.0	108.2	107.2	107.1
1956.....	101.9	101.7	98.2	98.4	109.2	107.2	107.4
1957.....	100.7	100.7	99.3	99.3	105.6	104.9	104.9
1958.....	97.7	97.7	102.4	102.4	96.5	98.8	98.8
1959.....	101.7	101.6	98.4	98.5	97.8	96.2	96.3
1960.....	101.7	101.9	98.3	98.1	96.0	94.4	94.2
1961.....	102.4	103.0	97.6	97.1	92.6	90.4	89.9
1962.....	107.0	107.4	93.4	93.1	94.2	88.0	87.7
1963.....	110.4	111.0	90.5	90.1	95.2	86.2	85.8
1964.....	114.7	114.3	87.2	87.5	97.4	84.9	85.2
1965.....	117.7	117.6	85.0	85.1	98.4	83.6	83.7
1966.....	121.3	124.3	82.4	80.5	101.3	83.5	81.5
1967.....	118.3	128.1	84.6	78.0	98.4	83.2	76.8
1968 ³	119.7	128.9	83.6	77.6	98.5	82.3	76.4
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	1.2	1.7	-1.2	-1.6	-0.7	-1.9	-2.3
1957-68	2.1	2.7	-2.1	-2.6	0.0	-2.1	-2.7

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

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Preliminary.

Source: Based on Interstate Commerce Commission data.

TABLE 100. AIR TRANSPORTATION SIC 451
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS, AND RELATED DATA,
 ALL EMPLOYEES, 1947-68
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER ALL EMPLOYEE	UNIT LABOR REQUIREMENTS IN TERMS OF ALL EMPLOYEES	RELATED DATA	
			OUTPUT	ALL EMPLOYEES
1947.....	37.4	267.4	22.7	60.7
1948.....	41.6	240.4	23.5	56.5
1949.....	47.8	209.1	26.4	55.2
1950.....	55.7	179.6	31.4	56.4
1951.....	64.0	156.3	39.8	62.2
1952.....	66.5	150.4	46.4	69.8
1953.....	71.8	139.3	53.5	74.5
1954.....	79.5	125.8	60.4	76.0
1955.....	89.5	111.7	71.9	80.3
1956.....	92.0	108.7	83.1	90.3
1957.....	95.1	105.2	94.1	99.0
1958.....	98.5	101.6	95.6	97.1
1959.....	106.2	94.2	110.3	103.9
1960.....	107.1	93.4	117.3	109.5
1961.....	113.4	88.2	124.1	109.4
1962.....	126.2	79.2	140.2	111.1
1963.....	139.4	71.7	158.8	113.9
1964.....	153.2	65.3	184.8	120.6
1965.....	171.1	58.4	223.5	130.6
1966.....	191.9	52.1	274.1	142.8
1967.....	204.5	48.9	347.6	170.0
1968 ¹	213.8	46.8	401.8	187.9
AVERAGE ANNUAL RATES (PERCENT)				
1947-68	8.0	-7.4	13.9	5.5
1957-68	8.4	-7.7	14.4	5.6

¹ Preliminary.

Source: Based on Civil Aeronautics Board data.

TABLE 101.GAS AND ELECTRIC UTILITIES SIC 491,492,493
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
 ALL EMPLOYEES, 1939-68

(INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	ALL EMPLOYEE	ALL EMPLOYEE MAN-HOUR	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS	OUTPUT	ALL EMPLOYEES	ALL EMPLOYEE MAN-HOURS
1939.....	26.7	27.6	374.5	362.2	19.6	73.4	71.0
1947.....	46.8	45.8	213.5	218.5	37.8	80.7	82.6
1948.....	49.1	48.1	203.8	208.1	42.0	85.6	87.4
1949.....	49.8	49.2	200.7	203.4	44.1	88.5	89.7
1950.....	55.6	54.6	179.7	183.1	50.3	90.4	92.1
1951.....	62.2	60.6	160.9	164.9	57.0	91.7	94.0
1952.....	65.8	64.7	151.9	154.6	61.5	93.4	95.1
1953.....	70.3	69.3	142.2	144.3	66.8	95.0	96.4
1954.....	74.7	74.0	133.8	135.2	71.6	95.8	96.8
1955.....	83.4	82.5	119.9	121.2	80.6	96.6	97.7
1956.....	90.3	89.4	110.7	111.8	88.7	98.2	99.2
1957.....	94.1	93.7	106.3	106.7	94.1	100.0	100.4
1958.....	98.2	98.6	101.8	101.4	98.2	100.0	99.6
1959.....	107.7	107.6	92.9	92.9	107.7	100.0	100.1
1960.....	114.8	114.7	87.1	87.2	114.9	100.1	100.2
1961.....	121.2	121.4	82.5	82.4	120.7	99.6	99.4
1962.....	131.3	130.8	76.2	76.5	129.6	98.7	99.1
1963.....	139.9	139.0	71.5	71.9	137.9	98.6	99.2
1964.....	150.3	149.5	66.6	66.9	148.9	99.1	99.6
1965.....	157.7	156.0	63.4	64.1	158.0	100.2	101.3
1966.....	169.6	167.4	59.0	59.7	171.3	101.0	102.3
1967.....	177.2	175.0	56.4	57.1	182.2	102.8	104.1
1968.....	189.5	186.9	52.8	53.5	197.6	104.3	105.7
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	7.1	7.1	-6.6	-6.7	8.0	0.9	0.8
1957-68	6.7	6.5	-6.3	-6.1	7.0	0.3	0.4

¹ Preliminary.

Source: Output based on data from the American Gas Association, Federal Power Commission, Rural Electrification Administration of U.S. Department of Agriculture, and 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 102.GAS AND ELECTRIC UTILITIES SIC 491,492,493
 OUTPUT PER MAN-HOUR, UNIT LABOR REQUIREMENTS,AND RELATED DATA,
 PRODUCTION WORKERS, 1939-68
 (INDEXES, 1957-59 = 100)

YEAR	OUTPUT PER--		UNIT LABOR REQUIREMENTS IN TERMS OF--		RELATED DATA		
	PRODUCTION WORKER ¹	PRODUCTION WORKER MAN-HOUR ¹	PRODUCTION WORKERS ¹	PRODUCTION WORKER MAN-HOURS ¹	OUTPUT ²	PRODUCTION WORKERS ¹	PRODUCTION WORKER MAN-HOURS ¹
1939.....	(³)	(³)	(³)	(³)	19.6	(³)	(³)
1947.....	44.1	43.1	227.0	232.0	37.8	85.8	87.7
1948.....	46.4	45.5	215.5	219.8	42.0	90.5	92.3
1949.....	47.4	46.8	211.1	213.8	44.1	93.1	94.3
1950.....	53.2	52.3	187.9	191.3	50.3	94.5	96.2
1951.....	59.6	58.1	167.7	172.1	57.0	95.6	98.1
1952.....	63.3	62.2	158.0	160.8	61.5	97.2	98.9
1953.....	68.2	67.2	146.6	148.8	66.8	97.9	99.4
1954.....	73.2	72.5	136.6	138.0	71.6	97.8	98.8
1955.....	82.2	81.3	121.7	123.0	80.6	98.1	99.1
1956.....	89.5	88.5	111.7	113.0	88.7	99.1	100.2
1957.....	93.6	93.3	106.8	107.2	94.1	100.5	100.9
1958.....	98.2	98.6	101.8	101.4	98.2	100.0	99.6
1959.....	108.2	108.1	92.4	92.5	107.7	99.5	99.6
1960.....	115.8	115.7	86.3	86.4	114.9	99.2	99.3
1961.....	122.8	123.0	81.4	81.3	120.7	98.3	98.1
1962.....	133.6	133.1	74.8	75.2	129.6	97.0	97.4
1963.....	143.2	142.5	69.8	70.2	137.9	96.3	96.8
1964.....	154.5	153.7	64.7	65.1	148.9	96.4	96.9
1965.....	162.2	160.4	61.6	62.3	158.0	97.4	98.5
1966.....	175.2	172.9	57.1	57.9	171.3	97.8	99.1
1967.....	183.9	181.5	54.4	55.1	182.2	99.1	100.4
1968 ⁴	196.4	193.7	50.9	51.6	197.6	100.6	102.0
AVERAGE ANNUAL RATES (PERCENT)							
1947-68	7.6	7.7	-7.1	-7.1	8.0	0.4	0.3
1957-68	7.1	6.9	-6.6	-6.5	7.0	-0.1	0.0

¹ Represents nonsupervisory workers.

² The measures of output used in this table represent the total production of the industry resulting from all employees and do not represent the specific output of any single group of employees.

³ Not available.

⁴ Preliminary.

Source: Output based on data from the American Gas Association, Federal Power Commission, Rural Electrification Administration of 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.

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