

138 PRICES AND WAGES IN MANUFACTURING INDUSTRIES

TABLE 3.—*Correlation between output index and productivity index: Cross sections for all manufacturing industries, 1947-58*

Year:	Correlation coefficient	Year—Continued	Correlation coefficient
1947.....	¹ 0. 5734	1953.....	0. 4017
1948.....	¹ 0. 5885	1954.....	² 0. 4498
1949.....	. 4377	1955.....	¹ 0. 6013
1950.....	¹ 0. 6230	1956.....	² 0. 5474
1951.....	. 4401	1957.....	² 0. 4995
1952.....	² 0. 5015	1958.....	² 0. 5192

¹ Significant at 1-percent level ($r_{.01}=0.5614$).² Significant at 5-percent level ($r_{.05}=0.4438$).

NOTE.—Sample size=20.

TABLE 4.—*Correlation between changes in output and changes in productivity: Cross sections for all manufacturing industries, 1948-58*¹

Year:	Correlation coefficient	Year—Continued	Correlation coefficient
1948.....	² 0. 6206	1954.....	³ 0. 5168
1949.....	³ 0. 4625	1955.....	² 0. 7435
1950.....	³ 0. 5296	1956.....	² 0. 5633
1951.....	. 1089	1957.....	² 0. 5900
1952.....	² 0. 7424	1958.....	² 0. 7505
1953.....	³ 0. 4614		

¹ These correlations differ from those in appendix B of Study Paper No. 21, which also relate changes in output to changes in productivity, because of two differences in the variables used. The correlations given here are based on absolute changes in the indexes of output and productivity; in addition, productivity is measured in terms of output per total worker man-hour. In Study Paper No. 21, the correlations are based on percentage changes in output and productivity and on productivity per production worker man-hour. In addition, the correlations above are based on 20 industries; the correlations in Study Paper 21 are based on 19; "Miscellaneous" was omitted from the latter cross section.

² Significant at 1-percent level ($r_{.01}=0.5614$).³ Significant at 5-percent level ($r_{.05}=0.4438$).

NOTE.—Sample size=20.

TABLE 5.—*Correlation between changes in output and changes in productivity: Time series for the period 1948-58, all manufacturing industries*

Industry:	Correlation coefficient
20 Food and kindred products.....	0. 4170
21 Tobacco.....	¹ 0. 7261
22 Textiles.....	— 0. 1859
23 Apparel.....	² 0. 7830
24 Lumber.....	. 4420
25 Furniture.....	. 3032
26 Paper and allied products.....	² 0. 7843
27 Printing and publishing.....	² 0. 7730
28 Chemicals.....	¹ 0. 6905
29 Petroleum and coal products.....	² 0. 8820
30 Rubber.....	. 1288
31 Stone, clay, and glass.....	. 2647
32 Leather.....	¹ 0. 7103
33 Primary metals.....	² 0. 8785
34 Fabricated metals.....	. 4241
35 Nonelectrical machinery.....	. 4853
36 Electrical machinery.....	. 3826
37 Transportation equipment.....	. 3577
38 Instruments.....	. 4289
39 Miscellaneous.....	. 5682

¹ Significant at 5-percent level ($r_{.05}=0.6021$).² Significant at 1-percent level ($r_{.01}=0.7348$).

NOTE.—Sample size=11.