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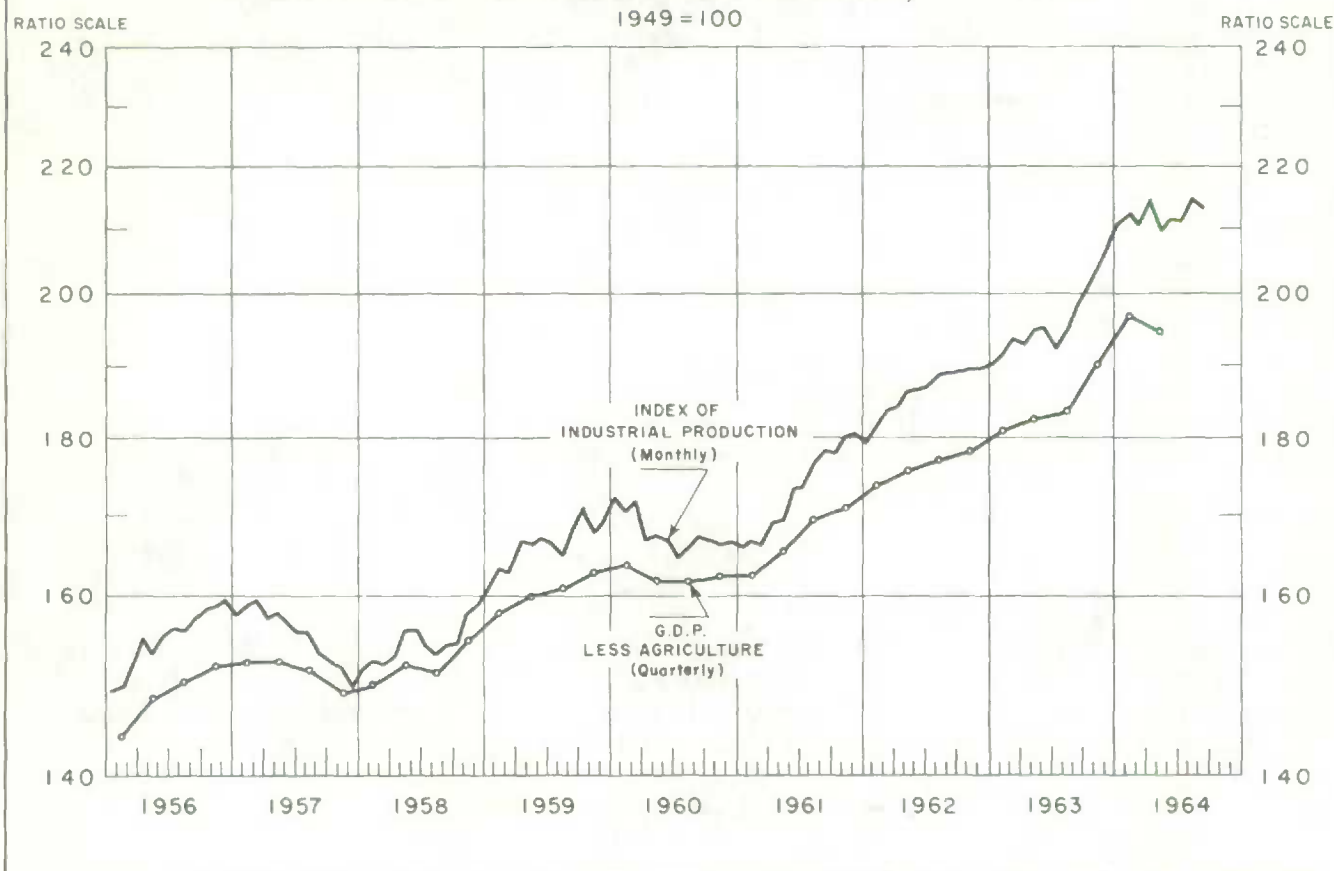
INDEX OF INDUSTRIAL PRODUCTION (1949=100)

Price: 20 cents, \$2.00 a year

SEPTEMBER 1964

The seasonally adjusted index of industrial production declined by 0.4 per cent in September.

COMPARISON OF GROSS DOMESTIC PRODUCT LESS AGRICULTURE WITH THE INDEX OF INDUSTRIAL PRODUCTION, 1956 - 1964



NOTE: This issue includes indexes of non-agricultural real output for the latest available quarter (2nd qtr. 1964).

Industrial Output Section
National Accounts and Balance of Payments Division

November 1964
2205-502

SEPTEMBER INDEX OF INDUSTRIAL PRODUCTION

The seasonally adjusted Index of Industrial Production declined by 0.4% in September to 213.5 from the revised August level of 214.4. This latest change left the Index, measuring about one-third of the domestic economy, higher by more than 9% in the January-September period over the same period last year. In addition, on a seasonally adjusted basis, the index gained about 0.5% in the third quarter over the second quarter of this year.

In September alone, the 0.4% decline was the result of drops in both mining (-1.3%) and manufacturing (-0.7%), partially offset by a gain of 2.9% in electric power and gas utilities. Within manufacturing, both durables and non-durables showed declines, the former by 1.0%, the latter by 0.4%.

Almost half of the durables decline originated in wood products as both saw-mills and veneer and plywoods fell in September after showing sizeable gains for the past two months. In iron and steel products, which fell by 2%, both primary steel and iron castings were lower. Transportation equipment showed a marginal drop as motor vehicle production was little changed from its seasonally adjusted August level. Indications are that a fairly large decline has occurred in motor vehicles in October due to parts shortages in the industry. Elsewhere, in durables in September, non-metallic mineral products and electrical apparatus and supplies were little changed in the month, while non-ferrous metal products gained almost 3%, due to smelting and refining.

Within non-durables, declines of from 1% to 3% occurred in paper products, textiles, leather, tobacco and foods and beverages, while petroleum products declined somewhat more. On the other hand, rubber products gained 2% and printing and publishing 6%. The second consecutive large monthly increase in acids brought chemicals up by more than 1%.

In mining, each of three major divisions declined, metals and non-metals by 2% and 4% respectively, and fuels by a marginal amount. Most of the major metals dropped in September; nickel in particular was affected by a labour disturbance.

NOTES

1. For a detailed description of concepts, sources and methods, see D.B.S. Catalogue No 61-502, "Revised Index of Industrial Production". For a complete and continuous record of total industrial production along with component industry indexes on both a seasonally unadjusted and adjusted basis use D.B.S. Reference Paper 61-502 for the period 1935 to 1956 inclusive, the March 1963 supplement to this report for the period 1919 to 1934, the March 1964 supplement for the period 1957 to 1963 inclusive and the regular monthly reports thereafter.
2. An explanation of the discontinuity in the total Clothing index is contained in the March 1964 issue of this report, page 2, note 2.
3. It should be noted that the 1949 weights shown in Table 1 have been re-expressed as proportions of total Gross Domestic Product rather than of Industrial Production alone. Thus, the Index of Industrial Production represents 32.231% of total real output.
4. The figures in Tables 1 and 2 may not reconcile with those on the Index of Industrial Production in Table 3 because of small revisions in June which have not been incorporated in the latter Table.

TABLE 1. Index of Industrial Production

(1949=100)

Industry or industry group	1949 weights	MCD	Seasonally adjusted					
			1964					
			Apr.	May	June	July	Aug.	Sept.
INDEX OF INDUSTRIAL PRODUCTION	32.231	1	214.7	209.4	211.3	210.9	214.4	213.5
MINING,	3.245	2	321.0	321.1	329.5	316.0	314.6	310.8
Metals	1.925	2	221.7	215.7	212.9	200.0	206.0	201.2
Gold	0.624	5	92.7	89.8	89.3	93.4	95.2	91.5
Copper	0.356	4	185.4	187.1	184.6	186.5	191.7	173.6
Iron ore	0.099	3	1,009.5	948.5	810.0	815.3	833.6	825.9
Nickel	0.337	4	186.1	187.7	187.3	172.6	165.9	156.6
Non-metals	0.268	5	260.3	253.9	244.8	261.9	243.9	234.7
Asbestos	0.214	5	274.0	260.8	258.3	275.3	253.3	246.4
Fuels	0.915	3	533.0	552.5	584.7	559.1	550.9	549.0
Coal	0.553	6	57.3	53.4	63.9	51.5	59.7	55.0
Natural gas	0.035	2	1,355.5	1,400.6	1,457.7	1,518.9	1,554.3	1,612.5
Petroleum	0.327	3	1,248.1	1,304.2	1,370.4	1,313.1	1,272.6	1,268.8
MANUFACTURING, TOTAL	27.340	3	190.4	185.6	185.7	186.3	191.2	189.8
NON-DURABLE MANUFACTURES	14.742	3	185.5	180.9	183.3	181.4	185.0	184.2
Foods and beverages	3.814	4	174.9	172.0	169.9	170.8	172.9	169.4
Foods	2.896	4	170.1	167.4	166.3	166.4	168.9	166.3
Meat products	0.523	4	180.5	171.0	179.4	178.7	187.3	184.8
Dairy products	0.450	3	169.0	177.9	163.5	165.6	167.7	163.9
Canning and processing	0.453	4	190.2	187.3	177.2	172.6	159.7	163.9
Grain mill products	0.322	4	184.4	182.7	180.1	173.6	186.1	177.6
Bakery products	0.558	3	143.3	142.3	142.8	146.7	144.8	144.6
Miscellaneous foods	0.590	4	163.8	156.5	163.0	166.2	174.1	168.0
Beverages	0.918	6	190.2	186.6	181.3	184.8	185.3	179.0
Carbonated beverages	0.231	6	196.9	176.5	168.3	186.6	176.3	177.5
Breweries	0.463	6	164.9	164.0	166.0	162.6	169.9	155.6
Distilleries	0.203	6	245.0	255.2	235.7	235.3	234.9	237.9
Tobacco and tobacco products ..	0.248	6	213.6	209.5	216.9	211.1	232.4	227.5
Rubber products	0.430	3	229.5	209.6	217.7	198.2	210.4	215.5
Leather products	0.508	2	131.7	134.5	129.6	129.4	134.0	130.0
Boots and shoes	0.307	4	140.8	142.4	137.8	135.3	144.4	137.3
Textiles	1.623	3	181.2	169.4	170.4	169.5	174.4	173.6
Cotton goods	0.507	4	132.9	116.3	120.7	121.2	130.9	121.2
Wool goods	0.300	3	99.7	96.0	81.7	88.5	83.5	83.5
Synthetic Textiles and Silk	0.429	3	316.2	294.8	304.9	297.6	308.0	313.8
Clothing	1.801	3	130.8	121.1	135.8	139.1	136.7	136.4
Paper products	2.649	3	180.9	173.9	174.5	177.1	181.2	178.8
Pulp and paper	2.108	3	183.0	175.4	175.8	179.6	184.1	179.9

TABLE 1. Index of Industrial Production - Concluded
(1949=100)

Industry or industry group	1949 weights	MCD	Seasonally adjusted					
			1964					
			Apr.	May	June	July	Aug.	Sept.
NON-DURABLE MANUFACTURES -								
Concluded:								
Printing, publishing and allied industries	1.273	4	172.6	174.6	169.0	158.9	154.3	163.7
Products of petroleum and coal	0.513	3	305.1	296.4	322.2	308.7	307.7	292.7
Petroleum products	0.454	3	330.3	320.2	349.5	334.7	333.2	315.9
Chemicals and allied products	1.359	2	267.9	271.1	276.2	266.8	283.7	287.8
Acids, alkalies, salts and fertilizers	0.346	2	320.2	321.8	333.2	320.5	343.1	368.5
Miscellaneous manufactures	0.524	1	258.4	261.3	263.9	264.6	266.3	267.1
DURABLE MANUFACTURES	12.598	3	196.1	191.0	188.6	192.1	198.3	196.4
Wood products	2.108	2	173.9	165.6	154.4	160.1	169.5	163.9
Saw and planing mills	1.444	3	191.4	179.6	163.8	172.8	186.5	177.9
Veneers and plywoods	0.122	3	408.2	376.3	374.1	389.1	423.3	380.5
Sawmills	0.994	4	181.6	170.3	149.4	161.4	177.6	170.1
Furniture	0.460	2	159.2	159.1	157.4	155.3	155.0	155.8
Iron and steel products	4.026	2	184.2	181.7	176.4	180.4	183.2	179.5
Machinery	0.851	1	174.4	175.8	179.3	182.3	182.0	181.3
Iron castings	0.387	3	186.0	198.1	178.7	199.4	193.5	174.2
Primary iron and steel	0.845	2	255.4	243.8	236.9	239.3	245.6	240.8
Sheet metal products	0.359	1	163.2	161.4	162.5	157.6	159.9	158.4
Transportation equipment	2.651	4	205.9	197.8	203.3	210.0	221.7	220.7
Aircraft and parts	0.203	1	266.9	271.0	275.9	282.1	281.8	281.2
Motor vehicles	1.035	4	302.2	278.5	287.9	293.4	323.8	321.4
Motor vehicle parts	0.462	2	211.7	212.7	216.4	239.5	238.4	236.8
Railway rolling stock	0.621	1	46.6	46.9	47.6	47.7	47.6	46.9
Shipbuilding and repairs	0.261	1	173.2	179.1	187.1	188.6	186.0	188.8
Non-ferrous metal products	1.601	3	161.7	160.3	164.7	161.0	156.6	160.5
Brass and copper products ...	0.241	1	147.9	150.8	151.8	147.6	144.5	144.3
Smelting and refining	1.028	3	175.5	172.5	179.6	175.5	169.4	174.9
Electrical apparatus and supplies	1.418	2	237.3	239.2	232.6	234.9	244.5	243.5
Heavy electrical machinery ..	0.489	1	162.6	162.5	160.2	158.9	159.5	160.3
Telecommunication equipment	0.142	3	578.7	599.3	532.1	539.1	596.4	585.6
Refrigerators and appliances	0.227	3	231.5	236.7	227.1	236.8	252.5	246.8
Non-metallic mineral products	0.794	2	279.0	258.2	261.7	262.4	275.5	275.8
Concrete products	0.098	4	832.9	740.7	781.1	781.9	855.5	832.4
Hydraulic cement	0.117	5	310.0	270.5	252.5	262.2	260.9	269.5
Domestic clay products	0.083	3	167.2	151.5	138.6	142.0	148.5	140.2
ELECTRIC POWER AND GAS UTILITIES	1.646	2	409.3	384.5	403.5	412.2	403.7	415.6
Electric power	1.480	2	370.1	351.7	360.1	373.0	367.8	378.2
Gas	0.166	3	760.8	678.5	792.9	763.4	725.4	751.5

TABLE 2. Index of Industrial Production

(1949=100)

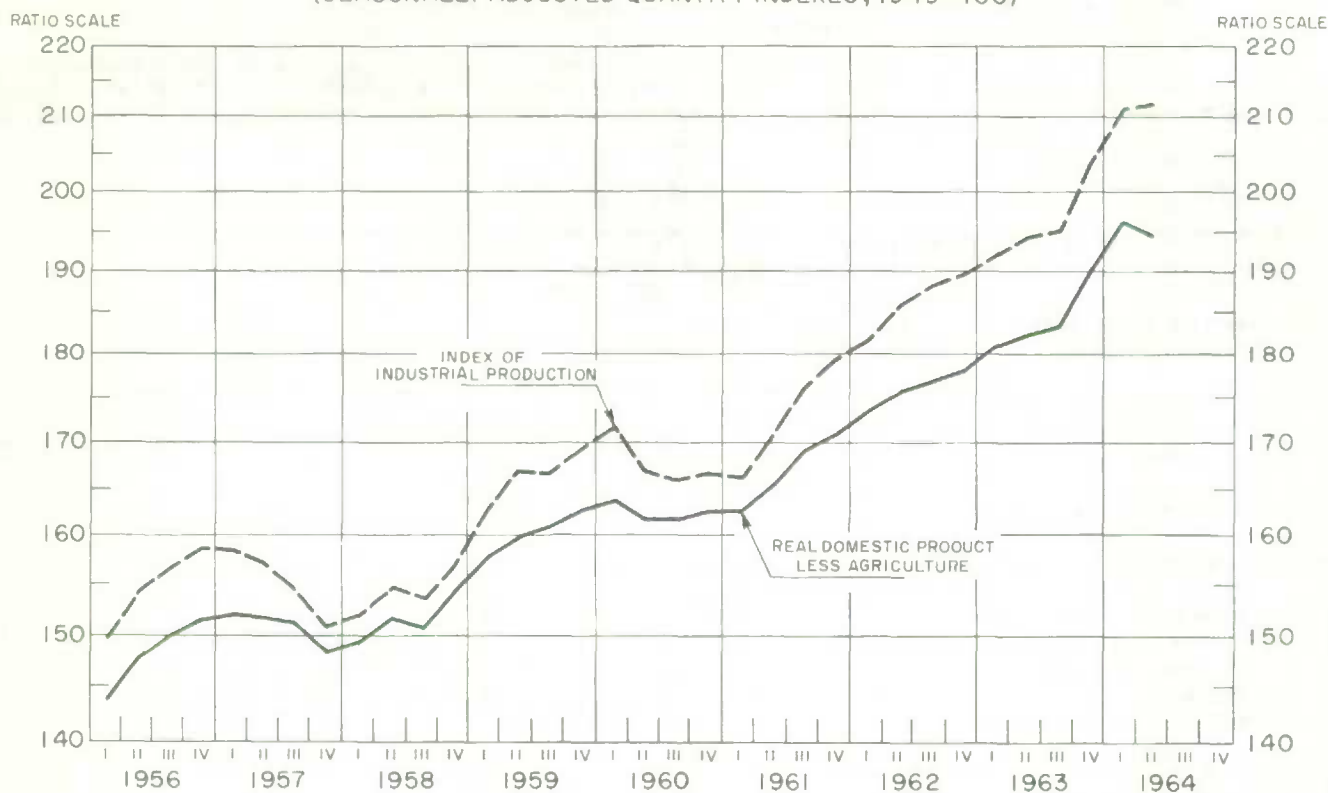
Industry or industry group	Annual averages		Without seasonal adjustment					
			1963			1964		
	1962	1963	July	Aug.	Sept.	July	Aug.	Sept.
INDEX OF INDUSTRIAL PRODUCTION	186.0	195.9	183.0	190.3	204.8	197.3	207.4	219.7
MINING,	287.4	294.4	280.7	294.8	318.4	313.6	319.1	328.6
Metals	197.7	193.8	182.3	197.8	219.5	203.6	219.9	220.7
Gold	100.1	95.5	87.1	93.5	98.3	90.1	92.6	89.7
Copper	176.7	174.0	162.5	179.3	193.6	183.0	199.4	178.8
Iron ore	632.5	670.8	737.7	822.7	1,034.2	986.5	1,042.0	1,156.2
Nickel	184.2	171.0	133.7	168.6	173.2	162.1	168.4	161.3
Non-metals	222.5	228.1	201.2	244.1	251.7	238.8	249.1	252.7
Asbestos	234.1	239.1	206.0	256.9	264.1	242.8	255.8	259.7
Fuels	480.8	513.6	481.9	486.0	513.5	530.1	515.0	542.4
Coal	48.8	52.0	44.1	32.3	53.8	45.7	35.2	57.7
Natural gas	1,005.7	1,179.8	971.3	984.4	1,087.9	1,199.9	1,243.4	1,306.1
Petroleum	1,154.0	1,221.6	1,168.8	1,198.7	1,228.1	1,276.3	1,247.1	1,278.9
MANUFACTURING, TOTAL	164.9	173.9	163.5	170.0	183.3	174.5	185.6	197.5
NON-DURABLE MANUFACTURES	164.8	172.2	162.1	179.1	185.0	171.8	190.0	196.1
Foods and beverages	158.9	162.1	167.4	183.5	180.4	182.3	191.7	188.9
Foods	154.8	157.2	160.6	175.2	178.2	179.1	186.4	187.3
Meat products	159.2	163.6	148.5	154.9	171.4	166.2	177.4	190.2
Dairy products	159.3	163.5	190.7	182.8	181.1	194.1	187.3	181.9
Canning and processing	164.7	165.4	206.3	273.7	259.7	262.0	274.8	264.6
Grain mill products	137.5	145.9	131.0	141.3	149.8	170.0	184.6	180.5
Bakery products	145.4	138.8	145.9	145.9	143.7	153.5	151.2	150.1
Miscellaneous foods	158.3	164.3	143.2	157.9	167.5	144.8	160.4	168.7
Beverages	171.9	177.6	189.1	210.0	187.4	192.5	208.2	193.7
Carbonated beverages	173.0	178.7	229.8	239.0	182.3	244.5	224.2	192.6
Breweries	156.3	159.9	199.2	173.5	155.9	196.8	181.8	147.2
Distilleries	210.0	220.3	127.3	268.9	251.4	129.4	258.4	287.9
Tobacco and tobacco products	203.7	207.7	169.8	204.2	192.3	166.1	230.5	236.6
Rubber products	167.6	190.5	155.3	150.6	200.0	162.5	159.9	237.0
Leather products	126.7	127.0	88.2	127.9	132.5	95.5	135.5	135.1
Boots and shoes	137.7	136.9	88.5	140.1	144.1	94.7	148.9	143.1
Textiles	146.6	159.5	119.6	154.4	170.9	134.1	164.5	179.6
Cotton goods	105.3	109.6	70.8	109.4	120.9	81.1	121.9	128.1
Wool goods	84.9	89.8	72.6	90.4	97.4	73.1	81.8	92.1
Synthetic textiles and silk	243.6	281.0	190.2	263.0	301.9	223.2	283.4	321.0
Clothing	111.0	137.0(1)	115.8	159.9	160.0	118.2	163.0	160.7
Paper products	159.1	164.3	159.7	168.9	172.3	173.0	184.4	184.6
Pulp and paper	158.6	163.8	156.0	166.8	171.0	172.1	185.6	184.8

(1) See page 2 footnote (2).

TABLE 2. Index of Industrial Production - Concluded
(1949=100)

Industry or industry group	Annual averages		Without seasonal adjustment					
			1963			1964		
	1962	1963	July	Aug.	Sept.	July	Aug.	Sept.
NON-DURABLE MANUFACTURES -								
Concluded:								
Printing, publishing and allied industries	154.0	156.7	147.3	149.9	164.2	150.6	147.3	168.4
Products of petroleum and coal	272.8	296.0	297.8	302.9	327.1	303.3	317.0	304.0
Petroleum products	294.3	319.7	321.7	327.5	354.9	328.0	343.2	328.5
Chemicals and allied products	233.2	249.1	245.7	250.4	255.1	247.3	278.9	293.4
Acids, alkalies, salts and fertilizers	266.0	302.0	309.9	304.1	305.2	262.8	322.5	363.0
Miscellaneous manufactures	237.2	246.6	245.4	249.7	258.5	262.0	268.4	278.3
DURABLE MANUFACTURES	165.0	175.9	165.2	159.3	181.4	177.6	180.5	199.1
Wood products	151.5	159.0	164.0	167.7	171.0	168.6	178.9	174.9
Saw and planing mills	161.1	172.1	179.5	182.8	185.5	184.6	198.0	189.9
Veneers and plywoods	329.8	358.8	301.2	320.7	395.7	349.8	380.1	405.2
Sawmills	149.6	162.3	177.1	178.2	173.2	179.2	194.8	180.3
Furniture	152.5	153.0	150.9	157.1	163.3	154.8	159.8	166.5
Iron and steel products	152.1	161.8	154.6	160.4	170.1	174.9	183.7	187.6
Machinery	149.1	160.2	162.1	160.8	162.3	181.9	182.2	185.1
Iron castings	135.5	151.1	120.7	140.8	148.4	167.5	180.0	182.9
Primary iron and steel	193.0	216.9	208.2	211.1	228.4	232.1	240.7	247.3
Sheet metal products	157.3	156.9	168.8	169.5	167.0	172.4	174.3	173.8
Transportation equipment	156.7	181.4	142.4	88.9	157.6	141.4	117.1	190.1
Aircraft and parts	260.0	233.8	220.2	222.6	233.8	275.0	273.9	280.6
Motor vehicles	206.9	257.6	170.1	36.6	199.6	129.7	68.0	247.5
Motor vehicle parts	146.6	179.5	157.5	155.1	178.0	211.2	214.6	226.1
Railway rolling stock	41.5	41.1	40.8	41.3	42.6	48.5	48.2	48.2
Shipbuilding and repairs	186.9	197.2	199.1	187.4	187.5	193.9	186.0	190.7
Non-ferrous metal products	148.9	148.8	140.1	150.3	152.3	155.9	156.9	161.4
Brass and copper products ...	126.9	133.4	137.7	140.9	140.8	151.0	149.4	148.2
Smelting and refining	164.2	161.6	146.5	161.0	163.3	166.7	167.9	173.9
Electrical apparatus and supplies	212.9	223.5	207.4	218.1	240.6	218.9	239.8	258.5
Heavy electrical machinery ..	149.8	154.3	156.1	153.8	154.5	161.4	160.9	163.8
Telecommunication equipment	524.1	546.9	428.1	538.4	652.3	415.1	580.9	655.3
Refrigerators and appliances	198.4	221.6	198.9	191.7	238.9	208.6	222.2	262.3
Non-metallic mineral products	240.9	243.0	273.1	279.4	298.5	306.1	322.6	320.7
Concrete products	655.0	652.3	760.2	787.9	954.1	1,000.8	1,107.0	1,057.1
Hydraulic cement	241.9	246.0	321.9	329.2	318.4	343.5	341.8	350.9
Domestic clay products	148.1	136.7	158.1	145.6	159.6	156.2	163.3	162.3
ELECTRIC POWER AND GAS UTILITIES	337.7	367.4	314.4	321.6	337.9	347.2	348.6	374.7
Electric power	313.1	339.2	308.0	315.5	327.4	338.3	338.4	359.3
Gas	558.3	620.1	371.9	376.4	432.3	427.5	439.6	513.3

COMPARISON OF REAL DOMESTIC PRODUCT LESS AGRICULTURE WITH THE INDEX OF INDUSTRIAL PRODUCTION, BY QUARTERS 1956-64 (SEASONALLY ADJUSTED QUANTITY INDEXES; 1949=100)



Note to Users

The indexes of real domestic product at factor cost (the sum of the unduplicated output of all industries located in Canada) are an extension of the "Index of Industrial Production" to cover the whole range of domestic industries. In addition to mining, manufacturing and electric power and gas utilities, total domestic product includes the following industry groups: agriculture; forestry; fishing and trapping; construction; transportation, storage and communication; trade; finance, insurance and real estate; public administration and defence; and community, recreation, business and personal service.

The real domestic product indexes are also an elaboration of the supply side of the National Accounts. Total domestic product differs conceptually from constant dollar expenditure on Gross National Product by (1) the inclusion of income paid to non-residents (2) the exclusion of income received from non-residents, and (3) the exclusion of "indirect taxes less subsidies". In addition, of course, statistical differences may exist between these two measures of aggregate production.

The real output indexes in Table 3 serve to bring up to date the historical record of production in Canada published in DBS Occasional Paper 61-505, "Indexes of Real Domestic Product by Industry of Origin, 1935-61". This reference paper contains a detailed description of concepts and methods used as well as other relevant material.

The monthly "Index of Industrial Production" publication 61-005 will henceforth contain quarterly indexes of real domestic product, less agriculture, with component industry detail. Quarterly indexes for agriculture and for aggregate domestic production will not be available, except on a once-a-year basis; they will appear in the annual supplement to this report each spring.

REAL DOMESTIC PRODUCT LESS AGRICULTURE, SECOND QUARTER, 1964

Seasonally adjusted real domestic product less agriculture for the second quarter of 1964 was one per cent below the level attained in the first quarter of this year. The present quarterly(1) decline is the first to be shown since the beginning of the current expansion in production early in 1961. It should be noted, however, that the decline represented to a large extent a reversal of the sharp increases shown by construction and related industries during the preceding months and particularly during the first quarter. Compared with the first six months of 1963, non-agricultural output was over 7 per cent higher. The following table shows a comparison of percentage contributions of some major industry groupings to the change in non-agricultural output (as measured from the trough in production) for the last five quarters.

TABLE 1

	I Q '61- II Q '63	I Q '61- III Q '63	I Q '61- IV Q '63	I Q '61- I Q '64	I Q '61- II Q '64
Per cent change in non-agricultural output ..	+ 12.5	+ 13.0	+ 17.1	+ 21.0	+ 19.9
	Per cent contribution to change (expressed as 100 per cent) in non-agricultural output				
Forestry	1.0	2.3	2.8	2.6	1.7
Fishing and trapping ...	- 0.2	- 0.3	- 0.5	- 0.2	- 0.5
Mining	7.6	6.8	7.3	8.0	8.2
Manufacturing	37.8	36.8	36.1	35.1	37.6
Non-durables	15.1	15.1	14.2	13.6	15.4
Durables	22.7	21.7	21.9	21.5	22.2
Construction	5.6	3.8	5.7	8.1	3.6
Electric power and gas utilities	5.0	5.7	5.7	4.7	5.4
Transportation, storage, communication	9.1	9.9	11.1	10.4	11.9
Trade	13.4	12.8	13.2	15.1	14.2
Other services*	20.1	21.6	18.2	15.9	17.5
Totals	100.0	100.0	100.0	100.0	100.0

* Includes public administration and defence, finance, insurance and real estate and community, recreation, business and personal services.

The 11 per cent drop in construction in the second quarter accounted for about 80 per cent of the decline in total non-agricultural output. Stimulated in part by the government winter house-building incentive programme and the pending imposition of the second stage of the tax on building materials on April 1, construction activity had increased by 6 per cent in the fourth quarter of 1963 and by a further 9 per cent in the first quarter of 1964. The current decline left construction at 3 per cent above the third quarter of 1963. It was concentrated in the area of residential construction which alone accounted for more than one half of the decline in non-agricultural output. It should be noted that while there was a sharp drop in the construction of single and semi-detached dwelling units, the drop in construction activity on multi-unit dwellings from an exceptionally high first quarter level also contributed substantially to the decrease in residential construction.

The next largest contributor to the decline was trade, with wholesale trade down by 2 1/2 per cent and retail trade by 1 1/2 per cent. Both at the retail and wholesale levels the most significant declines took place in the trades dealing with construction materials, such as the 27 per cent decline in lumber and building material dealer sales, which accounted for over one half of the decline in retail trade; and the 20 per cent declines in construction materials and supplies and in industrial and transportation equipment dealers which contributed heavily to the decline in wholesale trade.

(1) The monthly Index of Industrial Production showed little change in the second quarter, in spite of the fact that the April level was a record high. In June, the Index was 1.6 per cent below the April level and only marginally higher than January. For an analysis of monthly movements see page 2 of this report.

Other declines occurred in mining, forestry, and fishing and trapping. Public administration and defence declined fractionally. Mining output decreased by almost one per cent, with declines concentrated in metal mining, particularly iron ore (-7%) and other metals (including uranium). The 9 per cent drop in the irregularly fluctuating forestry industry contributed more than one sixth of the decrease in non-agricultural output, thus exercising more than its usual influence on the total change.

Manufacturing showed a marginal increase, as a result of a one per cent increase in non-durables just outweighing a 0.6 per cent decline in durables. As in trade, the largest declines in durables occurred in industries which produce construction materials and related goods, such as the wood products and non-metallic mineral products groups which declined by 4 and 6 per cent respectively and together accounted for over one half of the decline in durables. The remainder was mostly accounted for by the 6 per cent decline in the motor vehicle component of the transportation equipment group. This was the first quarterly decline recorded by this industry since the beginning of its current period of expansion early in 1961, during the course of which its output has more than doubled. Iron and steel production in the second quarter continued to increase, showing a gain of 2 per cent, with increases in iron castings and primary iron and steel of 11 and 3 per cent respectively. Non-ferrous metal products increased by 3 1/2 per cent as a result of a 4 1/2 per cent increase in smelting and refining and smaller gains in some other components. Electrical apparatus and supplies also expanded, the larger portion of the gain coming from a 6 per cent increase in refrigerators and appliances.

Within non-durable manufacturing, strong gains of 2 to 9 per cent were shown by petroleum products, textile products, printing and publishing and tobacco products, the increase in the last group representing in part a recovery from a very low first quarter. Paper products increased by less than one per cent, with the effects of a 3 per cent gain in pulp and paper dampened by the sharp decline of the roofing paper component from the exceptionally high first quarter levels. Foods and beverages declined by 1 per cent, with a drop in its grain milling component of 5 per cent, again from very high first quarter levels, reflecting in the main developments associated with the export of grain and flour. A fractional decline occurred in chemicals, as a result of a large drop in paints and varnishes, while most other components of chemicals increased.

The transportation, storage and communication group showed a gain of one and a half per cent in the second quarter, with all three components contributing to the increase. Storage was up by 9 1/2 per cent as a result of increased receipts and shipments at grain elevators. The transportation group increased by one per cent in spite of the two per cent decline in its largest component, railways, which failed to sustain the rapid increases achieved during the previous two quarters when rail facilities were increasingly being used to transport grain. The expansion in transportation activity for the second quarter came largely from shipping, which showed an above average gain due to the large quantities of wheat carried at that time. Air transport, and increased throughput of oil and gas pipelines also contributed to the advance in total transportation.

Except for the 2 per cent increase in the electric power and gas utilities group, which resulted from a 16 per cent gain in the gas component, the remaining industry divisions showed little change in the quarter. Finance, insurance and real estate increased by about one half of one per cent, which is below trend for this industry group. Community, recreation, business and personal service advanced by just over half of one per cent, with personal service showing no change from the first quarter and the other three components recording increases in the the range of one to 5 per cent.

COMPARISON OF CONSTRUCTION AND RELATED INDUSTRIES BY QUARTERS, 1956-64
(SEASONALLY ADJUSTED QUANTITY INDEXES; 1949 = 100)

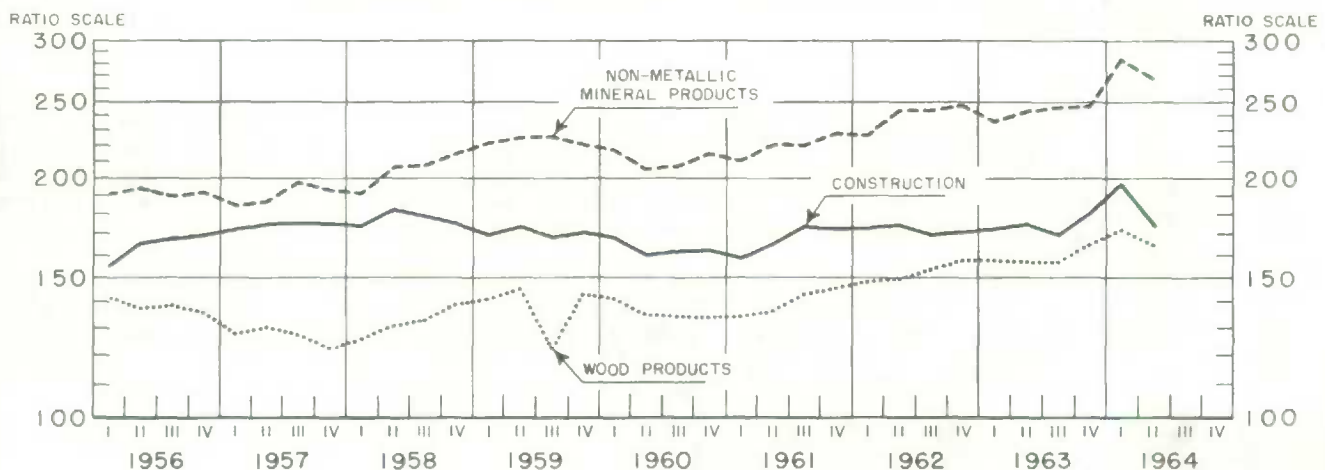


TABLE 3. Indexes of Real Domestic Product, less Agriculture
1949=100

[illegible]

TABLE 3. Indexes of Real Domestic Product, less Agriculture - Continued
1949=100

	Manufacturing							
	Non-durable manufacturing							
	Foods and beverages	Tobacco and tobacco products	Rubber products	Leather products	Textiles	Clothing	Paper products	Printing, publishing and allied industries
1949 Weights ...	3.814	0.248	0.430	0.508	1.623	1.801	2.649	1.273
	Seasonally adjusted							
1961 - 1	153.4	189.2	128.7	118.3	126.6	107.9	149.6	147.0
2	152.4	194.5	143.9	123.9	132.2	106.7	152.7	145.5
3	155.3	195.2	152.7	125.0	136.6	107.9	155.1	148.5
4	156.3	198.7	159.1	128.6	142.4	112.0	156.1	152.4
1962 - 1	159.3	205.1	154.0	128.6	142.3	106.2	157.7	152.1
2	162.1	201.2	167.7	126.2	145.1	111.6	158.1	155.0
3	157.5	203.3	169.9	126.4	150.5	112.9	161.0	154.5
4	158.3	206.2	176.7	125.4	150.6	114.0	159.6	152.9
1963 - 1	164.0	213.6	190.8	127.2	151.4	134.8	157.4	152.9
2	161.6	211.8	189.8	125.8	157.0	136.9	162.7	157.1
3	161.2	202.9	185.2	124.1	161.2	135.5	165.7	158.4
4	165.5	203.9	195.4	129.7	167.9	141.8	169.8	157.7
1964 - 1	174.0	195.8	212.2	127.5	167.9	133.0	175.2	160.6
2	172.2	213.3	218.9	131.7	173.7	129.2	176.5	172.0
3								
4								
	Without seasonal adjustment							
1961	154.2	193.6	145.7	123.8	134.6	107.1	153.4	148.2
1962	158.9	203.7	167.6	126.7	146.6	111.0	159.1	154.0
1963	162.1	207.7	190.5	127.0	159.5	137.0	164.3	156.7
1961 - 1	128.4	185.8	131.9	126.4	131.1	111.7	145.9	146.2
2	152.0	207.4	149.3	125.5	135.3	102.3	155.0	147.0
3	173.2	183.6	137.9	116.6	127.4	107.8	154.8	144.5
4	163.1	197.6	163.7	126.5	144.5	106.4	157.8	155.0
1962 - 1	134.3	202.3	157.5	137.2	147.7	111.3	153.5	151.4
2	160.9	215.2	173.9	128.6	148.6	106.9	160.5	156.4
3	176.0	191.8	156.6	117.3	136.4	112.9	161.3	150.0
4	164.6	205.6	182.4	123.7	153.5	113.0	161.1	158.1
1963 - 1	138.0	213.1	192.5	136.5	156.6	135.4	153.4	151.6
2	161.5	224.4	200.7	127.5	161.7	124.3	164.3	158.7
3	177.1	188.8	168.6	116.2	148.3	145.2	167.0	153.8
4	172.0	204.3	200.2	127.7	171.5	143.2	172.4	162.7
1964 - 1	148.7	195.6	215.8	137.3	172.1	133.6	170.0	158.5
2	171.8	226.6	230.4	133.2	178.9	117.2	178.1	174.7
3								
4								

TABLE 3. Indexes of Real Domestic Product, less Agriculture - Continued
1949=100

	Manufacturing							
	Non-durable manufacturing			Durable manufacturing				
	Products of petroleum and coal	Chemicals and allied products	Miscellaneous manufacturing	Total	Wood products	Iron and steel products	Transportation equipment	Non-ferrous metal products
1949 Weights	0.513	1.359	0.524	12.598	2.108	4.026	2.651	1.601
	Seasonally adjusted							
1961 - 1	246.5	219.2	199.7	141.3	134.4	132.6	120.3	148.0
2	266.7	222.9	206.1	144.7	136.8	137.3	121.4	147.7
3	259.0	224.4	216.8	151.8	142.7	144.9	136.6	142.5
4	262.2	222.7	228.1	156.1	146.4	141.4	143.3	152.8
1962 - 1	269.7	232.7	231.8	157.7	148.5	144.8	141.5	151.3
2	263.8	237.3	234.3	162.7	149.4	149.5	151.0	150.2
3	267.2	232.7	240.9	167.8	153.3	156.8	160.7	149.1
4	287.7	228.2	241.2	171.5	157.9	157.7	169.9	144.9
1963 - 1	289.7	238.1	241.9	172.1	157.4	160.1	172.6	146.4
2	293.5	249.9	249.0	173.6	157.1	160.6	173.6	150.3
3	301.2	250.8	249.1	173.7	157.1	158.2	177.4	149.7
4	306.4	259.1	246.5	184.2	165.0	168.2	202.0	149.8
1964 - 1	302.3	272.7	256.7	193.0	171.2	176.9	209.1	156.7
2	307.9	271.9	261.2	191.9	164.6	180.7	202.2	162.2
3								
4								
	Without seasonal adjustment							
1961	258.8	222.1	213.0	148.4	139.6	139.4	129.8	147.6
1962	272.8	233.2	237.2	165.0	151.5	152.1	156.7	148.9
1963	296.0	249.1	246.6	175.9	159.0	161.8	181.4	148.8
1961 - 1	248.9	214.7	194.0	139.2	132.7	130.1	131.1	146.1
2	256.4	229.3	202.2	150.8	139.7	141.5	141.9	147.9
3	265.5	223.2	218.8	148.3	151.4	145.7	101.3	141.6
4	264.5	221.1	237.0	155.4	134.8	140.4	144.7	154.7
1962 - 1	273.1	229.0	224.8	154.8	146.8	139.1	153.9	150.6
2	253.9	245.4	228.9	170.2	152.0	154.8	178.0	149.9
3	275.3	233.3	242.3	164.0	162.7	158.5	121.9	147.9
4	288.6	225.3	252.7	170.9	144.6	155.8	172.9	147.2
1963 - 1	291.2	234.2	234.2	168.2	156.0	153.5	182.6	146.7
2	276.8	259.3	241.6	181.7	159.5	166.6	203.1	148.9
3	309.3	250.4	251.2	168.6	167.6	161.7	129.6	147.6
4	306.7	252.7	259.4	184.9	153.1	165.2	210.3	152.2
1964 - 1	306.3	272.5	247.5	188.7	170.3	169.7	223.7	156.5
2	290.3	285.3	254.7	200.7	165.6	186.0	236.1	163.0
3								
4								

TABLE 3. Indexes of Real Domestic Product, less Agriculture - Continued
1949=100

	Manufacturing		Con- struction	Electric power and gas utilities	Transportation, storage and communication			Trade
	Durable manufacturing				Total	Transpor- tation	Storage	Total
	Electrical apparatus and supplies	Non-metallic mineral products						
1949 Weights ...	1.418	0.794	6.379	1.646	8.363	6.528	0.230	14.562
	Seasonally adjusted							
1961 - 1	169.3	210.2	158.5	304.1	168.2	156.0	222.0	154.9
2	175.0	221.0	165.5	319.4	173.0	161.0	233.8	156.8
3	185.8	220.2	173.2	327.8	174.1	162.4	215.5	160.1
4	199.0	228.5	171.7	325.9	173.8	160.6	207.9	161.1
1962 - 1	206.6	227.4	172.1	335.7	179.8	167.8	202.8	164.2
2	211.2	242.7	173.8	337.7	177.2	165.4	161.0	166.7
3	213.1	242.6	169.8	343.4	179.8	167.3	180.1	166.7
4	221.3	248.2	170.4	339.0	181.5	166.8	231.8	168.4
1963 - 1	220.0	236.7	172.0	352.1	188.3	175.7	217.2	171.1
2	223.4	242.0	174.4	359.2	187.8	174.1	202.8	171.5
3	222.1	246.5	169.8	369.8	190.5	176.2	230.7	171.5
4	228.6	247.5	180.6	390.2	201.0	188.8	253.6	177.3
1964 - 1	231.0	283.9	196.9	390.6	205.9	193.6	234.4	186.4
2	236.6	266.1	174.6	399.1	208.9	195.6	256.6	182.8
3								
4								
	Without seasonal adjustment							
1961	182.6	220.2	168.4	317.7	172.1	159.7	220.3	158.2
1962	212.9	240.9	171.0	337.7	179.2	166.4	192.9	166.8
1963	223.5	243.0	173.6	367.4	192.0	178.8	227.1	173.2
1961 - 1	166.9	166.3	98.3	340.8	150.7	134.7	179.8	139.2
2	170.5	227.7	169.1	308.6	176.7	166.1	254.1	162.9
3	186.4	254.8	221.0	284.7	185.1	177.3	229.8	156.4
4	206.7	232.0	185.3	336.8	175.7	160.7	217.7	174.4
1962 - 1	203.3	180.3	109.0	374.9	161.8	145.4	164.5	148.4
2	205.3	249.3	175.8	328.5	181.4	171.5	173.1	173.6
3	213.5	279.8	215.5	298.7	190.4	182.0	192.0	163.0
4	229.4	254.0	183.5	348.7	183.1	166.5	241.8	182.3
1963 - 1	216.2	184.3	109.5	395.6	170.6	153.6	181.4	156.4
2	216.5	250.1	176.7	349.2	192.4	180.9	212.6	177.9
3	222.0	283.7	214.2	324.6	203.2	193.8	240.8	165.9
4	239.2	253.9	194.1	400.2	201.8	186.8	273.4	192.4
1964 - 1	227.1	213.1	128.1	439.2	186.7	169.9	196.8	170.4
2	230.0	273.8	178.4	387.5	212.8	201.9	257.6	189.4
3								
4								

TABLE 3. Indexes of Real Domestic Product, less Agriculture - Concluded
1949=100

	Trade		Finance, insurance and real estate	Public adminis- tration and defence	Community, recreation, business and personal service	Special Industry Indexes		
	Whole- sale	Retail				Commercial industries, less agriculture	Non- commercial industries (1)	Index of Industrial Production
1949 Weights ...	4.995	9.567	9.127	4.666	10.202	81.015	8.271	32.231
Seasonally adjusted								
1961 - 1	154.8	155.0	173.1	182.5	149.0	160.7	176.9	166.1
2	161.3	154.5	174.5	182.6	150.8	164.0	178.5	170.6
3	167.7	156.2	176.3	184.7	153.8	168.0	181.0	176.0
4	168.5	157.3	178.0	185.9	154.9	169.7	182.5	179.5
1962 - 1	171.3	160.4	179.7	186.7	156.0	172.4	184.2	181.5
2	175.7	162.0	182.8	189.9	156.8	174.4	186.9	185.5
3	176.8	161.5	183.3	189.3	159.3	175.7	187.8	188.1
4	175.5	164.7	185.5	185.7	160.5	177.1	186.9	189.5
1963 - 1	182.0	165.4	190.1	186.6	162.7	180.2	187.5	191.7
2	180.6	166.7	192.9	187.7	164.4	181.7	189.4	194.2
3	177.9	168.2	195.9	189.2	165.6	182.6	191.2	195.0
4	185.0	173.3	198.9	189.2	167.1	189.7	192.3	203.8
1964 - 1	202.0	178.2	200.6	190.4	168.1	196.6	193.5	211.1
2	196.7	175.5	201.4	190.1	169.3	194.4	194.2	211.8
3								
4								
Without seasonal adjustment								
1961	162.7	155.9	175.5	183.9	152.2	165.5	179.7	172.9
1962	174.9	162.6	182.9	187.9	158.2	174.8	186.5	186.0
1963	181.6	168.8	194.5	188.1	165.0	183.6	188.7	195.9
1961 - 1	150.2	133.4	170.2	177.3	145.0	148.5	173.7	163.7
2	171.7	158.3	175.5	182.5	151.4	166.4	178.6	172.6
3	161.8	153.6	179.5	190.8	157.4	173.2	184.6	174.5
4	167.1	178.2	176.9	185.0	154.9	174.0	181.9	180.8
1962 - 1	167.0	138.7	176.7	181.5	151.8	159.7	181.0	179.2
2	187.3	166.5	183.8	189.8	157.4	177.0	187.0	187.8
3	170.7	158.9	186.7	195.5	163.2	180.8	191.5	186.4
4	174.5	186.4	184.4	184.9	160.6	181.5	186.4	190.7
1963 - 1	181.0	143.6	186.5	181.0	158.3	167.8	182.8	188.4
2	190.4	171.4	194.4	188.0	164.4	184.5	188.3	196.7
3	168.5	164.5	199.3	196.0	170.0	187.4	193.9	192.7
4	186.4	195.6	197.7	187.5	167.1	194.6	189.7	205.8
1964 - 1	202.2	153.8	196.7	184.3	163.5	182.8	189.6	207.4
2	207.1	180.2	202.9	190.5	169.4	197.3	194.5	214.8
3								
4								

(1) Includes public administration and defence; hospitals; education; welfare, religion and other community service, n.e.c.; and domestic service.

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