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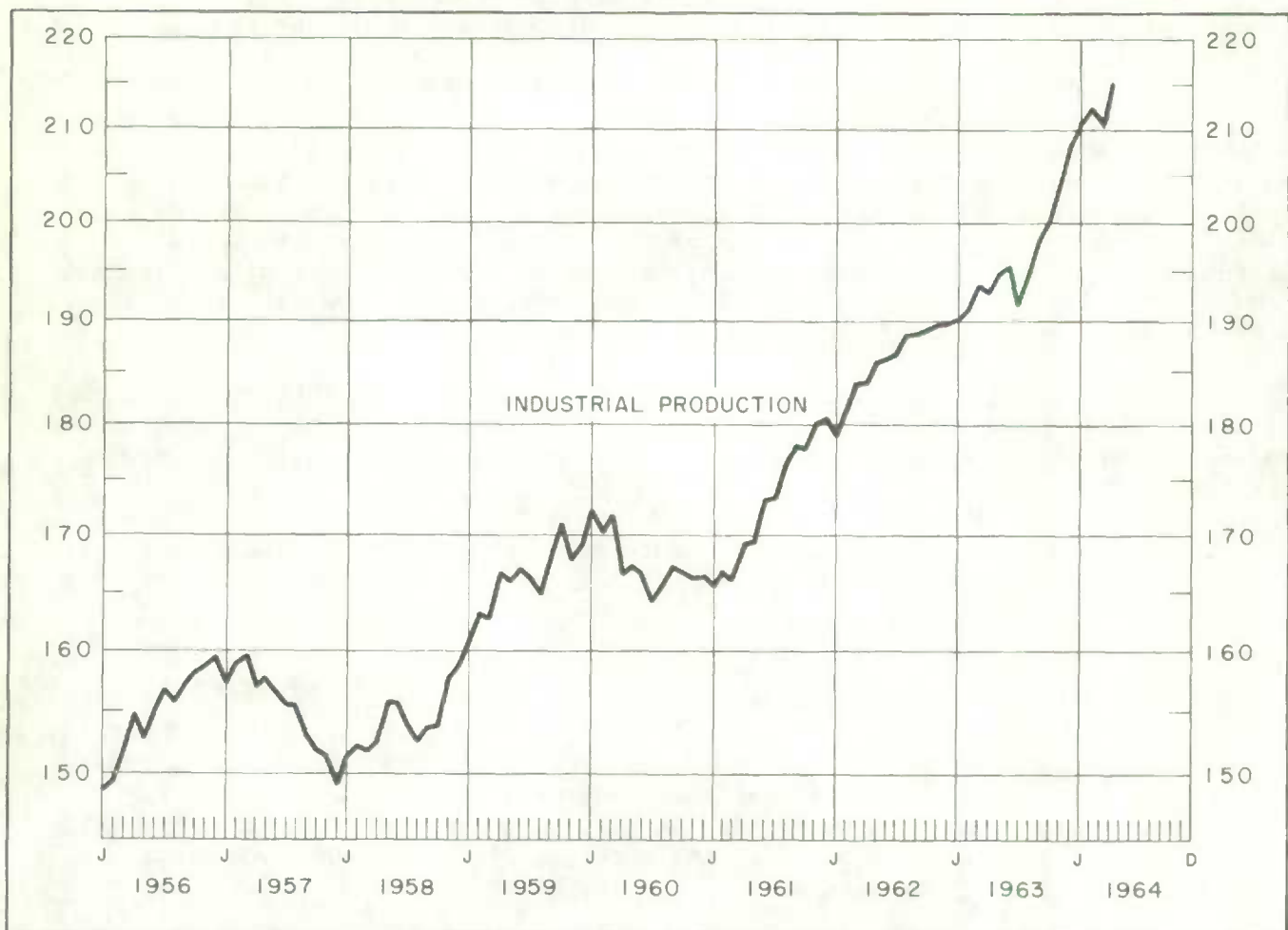
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INDEX OF INDUSTRIAL PRODUCTION (1949=100)

APRIL 1964

The seasonally adjusted index of industrial production advanced by 2.3 per cent in April. Non-agricultural output increased by 3.2 per cent in the first quarter.*

DOMINION BUREAU OF STATISTICS
JUL 17 1964
OFFICE OF THE STATISTICIAN



* NOTE: This issue includes indexes of non-agricultural real output for the latest available quarter (1st qtr. 1964).

Industrial Output Section
National Accounts and Balance of Payments Division

June 1964
2205-502

APRIL INDEX OF INDUSTRIAL PRODUCTION

The seasonally adjusted index of industrial production, after suffering a setback in March, rebounded in April, rising by 2.3% to 215.1. This April increase left the index 1.3% above the February level. All three major divisions contributed to this latest gain with mining up by 2.4%, manufacturing by 2.1% and electric power and gas utilities by almost 4%. For the year to date, the total index is now higher by 10.5% than the same period last year.

Almost three-quarters of the strength in manufacturing came from non-durables where output advanced by 2.8%, with most major groups higher by substantial amounts. Tobacco products gained almost 20% in April after two consecutive large monthly declines. Both paper products and printing and publishing were substantially higher, largely reflecting increases in both domestic and export shipments of newsprint. Textile production was up by more than 7%, as all components showed relatively large gains. Other substantial increases were recorded in foods and beverages, leather and rubber products. Clothing fell in April as did chemical products. The latter movement occurred in spite of higher acids output and was solely due to a substantial decline in paints.

There were similarly large gains in many of the components of durable manufactures in April, as this aggregate moved ahead by 1.3%. Increases ranged from between three and three and one-half per cent in wood products, iron and steel and electrical apparatus and supplies. The most important industry contributors were sawmills, iron castings, primary steel and telecommunication equipment. It is interesting to note that the strength in durables occurred in spite of a more than 5% decline in motor vehicle production. Non-metallic mineral products fell slightly in April, while non-ferrous metal products gained 2%.

Gains in mining output were about as widespread as in manufacturing, with both metals and fuels up by 2% and non-metals, due to asbestos, 10% higher. Iron ore was the only major metal to decline (-4%), and each of coal, natural gas and crude petroleum also showed gains.

In electricity and gas, both components moved higher, in particular gas utilities.

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 attached 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 Industrial Production indexes in Table 3 are quarterly and annual averages of the figures in Tables 1 and 2.

TABLE 1. Industrial Production Indexes

(1949=100)

Industry or industry group	1949 weights	MCD	Seasonally adjusted					
			1963		1964			
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
INDUSTRIAL PRODUCTION, TOTAL	32.231	1	203.5	207.7	210.8	212.3	210.2	215.1
MINING, TOTAL	3.245	2	305.1	311.8	335.2	324.9	317.3	324.9
Metals	1.925	2	200.9	203.7	223.7	226.7	216.8	221.7
Gold	0.624	5	94.1	88.4	87.7	88.3	91.3	92.7
Copper	0.356	4	182.6	170.9	189.1	181.8	184.5	185.4
Iron ore	0.099	3	780.4	948.6	891.3	1,017.0	1,055.5	1,009.5
Nickel	0.337	4	161.3	176.0	165.6	184.6	170.3	186.1
Non-metals	0.268	5	244.5	243.9	231.5	234.8	230.2	253.8
Asbestos	0.214	5	257.7	250.9	242.5	245.5	238.8	274.5
Fuels	0.915	3	531.7	542.7	571.8	530.5	526.4	536.1
Coal	0.553	6	47.8	49.7	52.3	52.8	57.1	57.3
Natural gas	0.035	2	1,270.9	1,224.3	1,169.6	1,216.0	1,245.0	1,361.6
Petroleum	0.327	3	1,269.6	1,302.0	1,384.9	1,263.6	1,241.7	1,256.0
MANUFACTURING, TOTAL	27.340	3	180.2	183.5	185.2	188.6	186.3	190.2
NON-DURABLE MANUFACTURES	14.742	3	175.9	180.1	179.7	184.2	180.1	185.1
Foods and beverages	3.814	4	165.3	166.6	171.8	180.0	170.1	175.0
Foods	2.896	4	159.6	163.2	168.5	173.1	166.5	170.2
Meat products	0.523	4	169.1	175.3	180.2	178.8	163.7	180.5
Dairy products	0.450	3	161.8	169.4	169.0	168.2	168.5	169.0
Canning and processing	0.453	4	167.7	158.2	164.0	197.9	193.1	194.7
Grain mill products	0.322	4	157.5	163.5	194.3	192.3	186.4	176.3
Bakery products	0.558	3	135.1	134.8	143.1	143.2	142.4	143.4
Miscellaneous foods	0.590	4	167.5	178.4	171.0	170.5	158.9	165.1
Beverages	0.918	6	183.3	177.5	182.1	201.9	181.5	190.4
Carbonated beverages	0.231	6	200.0	169.0	171.7	196.0	177.3	196.9
Breweries	0.463	6	163.7	168.2	158.9	183.1	176.9	164.9
Distilleries	0.203	6	214.3	213.0	248.3	257.3	200.1	245.0
Tobacco and tobacco products ..	0.248	6	206.4	209.1	209.2	199.5	178.8	213.6
Rubber products	0.430	3	192.5	207.7	201.1	226.4	209.2	229.5
Leather products	0.508	2	132.3	128.4	125.1	132.4	125.4	131.8
Boots and shoes	0.307	4	145.7	138.3	131.1	141.3	131.4	139.5
Textiles	1.623	3	163.4	172.1	168.1	167.8	167.8	180.2
Cotton goods	0.507	4	115.2	121.4	117.4	121.0	108.3	132.9
Wool goods	0.300	3	89.1	90.9	104.5	94.3	93.0	99.7
Synthetic Textiles and Silk	0.429	3	286.3	308.2	283.3	283.7	299.3	311.9
Clothing	1.801	3	136.3	146.6	132.3	135.4	131.2	127.0
Paper products	2.649	3	168.8	175.4	172.8	176.3	176.5	181.2
Pulp and paper	2.108	3	168.9	176.5	171.6	172.8	174.9	183.0

TABLE 1. Industrial Production Indexes - Concluded

(1949=100)

Industry or industry group	1949 weights	MCD	Seasonally adjusted					
			1963		1964			
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
NON-DURABLE MANUFACTURES - Concluded:								
Printing,publishing and allied industries	1.273	4	155.9	157.4	162.0	159.7	160.0	172.0
Products of petroleum and coal	0.513	3	302.9	308.0	299.7	308.9	298.6	303.0
Petroleum products	0.454	3	327.5	332.2	323.0	334.2	322.8	
Chemicals and allied products	1.359	2	262.9	263.1	269.3	273.1	275.6	267.4
Acids, alkalies, salts and fertilizers	0.346	2	315.0	310.5	303.8	310.7	304.2	320.2
Miscellaneous manufactures	0.524	1	246.3	245.1	252.3	258.2	260.0	261.3
DURABLE MANUFACTURES	12.598	3	185.2	187.6	191.6	193.8	193.6	196.2
Wood products	2.108	2	165.9	165.6	173.1	171.3	169.4	174.4
Saw and planing mills	1.444	3	181.7	180.4	191.1	187.5	184.4	191.9
Veneers and plywoods	0.122	3	404.5	405.8	415.0	391.0	401.5	408.2
Sawmills	0.994	4	169.6	166.3	178.9	176.2	170.7	181.6
Furniture	0.460	2	153.8	156.1	156.6	158.7	159.9	159.2
Iron and steel products	4.026	2	168.7	171.4	176.2	176.5	177.8	183.7
Machinery	0.851	1	163.0	164.8	167.6	171.1	172.3	173.3
Iron castings	0.387	3	157.1	161.4	177.6	170.1	157.4	186.0
Primary iron and steel	0.845	2	240.9	245.4	240.7	233.9	241.6	253.2
Sheet metal products	0.359	1	154.6	158.1	161.8	164.9	165.0	164.7
Transportation equipment	2.651	4	204.7	209.2	207.4	208.2	211.8	205.0
Aircraft and parts	0.203	1	257.2	256.7	261.7	259.7	260.4	265.1
Motor vehicles	1.035	4	299.5	305.7	299.4	304.5	318.0	301.3
Motor vehicle parts	0.462	2	203.0	214.9	216.9	215.4	211.7	209.9
Railway rolling stock	0.621	1	44.4	44.7	44.7	46.1	46.9	46.6
Shipbuilding and repairs	0.261	1	195.1	195.2	195.4	184.4	174.0	172.6
Non-ferrous metal products	1.601	3	149.3	148.8	153.3	157.8	159.3	162.6
Brass and copper products ...	0.241	1	138.6	140.4	144.0	147.6	149.2	150.1
Smelting and refining	1.028	3	160.6	159.2	163.6	169.9	171.4	176.4
Electrical apparatus and supplies	1.418	2	230.8	232.5	232.9	229.9	230.2	238.4
Heavy electrical machinery ..	0.489	1	151.1	155.0	156.7	158.8	161.1	161.5
Telecommunication equipment	0.142	3	592.8	589.2	590.9	550.7	538.9	585.2
Refrigerators and appliances	0.227	3	243.5	235.7	218.7	220.8	216.6	233.5
Non-metallic mineral products	0.794	2	246.4	253.7	269.3	301.6	281.1	279.9
Concrete products	0.098	4	682.0	783.6	890.8	998.2	819.6	832.9
Hydraulic cement	0.117	5	247.7	192.5	228.2	309.1	284.9	310.0
Domestic clay products	0.083	3	141.1	127.7	126.2	149.3	166.2	167.2
ELECTRIC POWER AND GAS UTILITIES	1.646	2	390.6	403.8	391.2	384.3	396.4	411.8
Electric power.....	1.480	2	364.9	374.2	360.0	360.5	367.9	372.9
Gas	0.166	3	621.0	668.9	670.7	598.1	652.2	760.8

TABLE 2. Industrial Production Indexes

(1949=100)

Industry or industry group	Annual averages		Without seasonal adjustment					
			1963			1964		
	1962	1963	Feb.	Mar.	Apr.	Feb.	Mar.	Apr.
INDUSTRIAL PRODUCTION, TOTAL ..	186.0	195.9	190.7	192.0	189.3	211.0	209.2	212.0
MINING, TOTAL	287.4	294.4	286.5	286.4	272.6	314.4	302.9	307.1
Metals	197.7	193.8	176.0	181.2	190.4	202.4	191.4	215.6
Gold	100.1	95.5	98.7	95.6	98.0	89.1	90.8	95.9
Copper	176.7	174.0	158.0	167.4	169.0	171.1	179.5	176.9
Iron ore	632.5	670.8	356.1	437.5	540.3	549.2	614.3	736.9
Nickel	184.2	171.0	176.7	177.1	188.3	184.6	170.8	185.6
Non-metals	222.5	228.1	203.1	210.1	207.1	221.8	225.8	250.6
Asbestos	234.1	239.1	220.3	228.3	223.6	243.5	246.0	272.6
Fuels	480.8	513.6	557.6	541.0	462.1	584.7	559.8	501.4
Coal	48.8	52.0	61.1	48.5	47.8	58.1	54.2	51.6
Natural gas	1,005.7	1,179.8	1,395.9	1,235.8	1,149.1	1,532.2	1,456.7	1,388.8
Petroleum	1,154.0	1,221.6	1,306.0	1,298.0	1,088.0	1,372.3	1,317.4	1,165.6
MANUFACTURING, TOTAL	164.9	173.9	166.3	169.4	168.9	184.9	184.9	188.0
NON-DURABLE MANUFACTURES	164.8	172.2	162.6	168.4	165.8	179.3	178.5	181.2
Foods and beverages	158.9	162.1	139.5	144.8	146.8	154.7	151.0	158.9
Foods	154.8	157.2	138.6	138.9	140.0	150.9	145.9	151.6
Meat products	159.2	163.6	159.9	161.8	160.6	178.4	166.3	181.0
Dairy products	159.3	163.5	137.7	147.4	158.7	141.6	152.8	166.0
Canning and processing	164.7	165.4	96.0	88.0	86.8	105.4	92.4	94.9
Grain mill products	137.5	145.9	143.4	143.6	135.4	190.8	186.8	169.9
Bakery products	145.4	138.8	130.8	129.6	135.0	131.3	131.6	139.0
Miscellaneous foods	158.3	164.3	158.1	157.4	155.3	165.0	154.7	159.9
Beverages	171.9	177.6	142.0	163.5	168.3	166.7	167.2	182.0
Carbonated beverages	173.0	178.7	137.1	136.6	167.7	159.9	138.3	173.5
Breweries	156.3	159.9	127.6	160.5	168.1	152.0	176.2	179.3
Distilleries	210.0	220.3	183.3	206.5	175.9	214.3	185.3	205.1
Tobacco and tobacco products	203.7	207.7	224.6	219.0	210.6	203.5	183.6	211.5
Rubber products	167.6	190.5	202.1	204.9	183.3	242.7	218.2	227.7
Leather products	126.7	127.0	139.7	139.2	129.5	145.8	138.1	136.7
Boots and shoes	137.7	136.9	155.6	157.4	141.3	161.6	151.6	147.9
Textiles	146.6	159.5	159.7	162.0	155.8	176.8	176.0	182.3
Cotton goods	105.3	109.6	109.0	109.6	109.0	130.4	116.9	139.0
Wool goods	84.9	89.8	89.5	84.2	72.3	94.9	88.8	100.5
Synthetic textiles and silk	243.6	281.0	287.7	298.3	283.6	310.9	327.4	315.6
Clothing	111.0	137.0(1)	137.8	142.6	135.0	138.8	142.3	125.0
Paper products	159.1	164.3	151.0	161.2	159.4	173.0	175.8	180.1
Pulp and paper	158.6	163.8	151.7	163.1	159.6	173.8	177.2	183.0

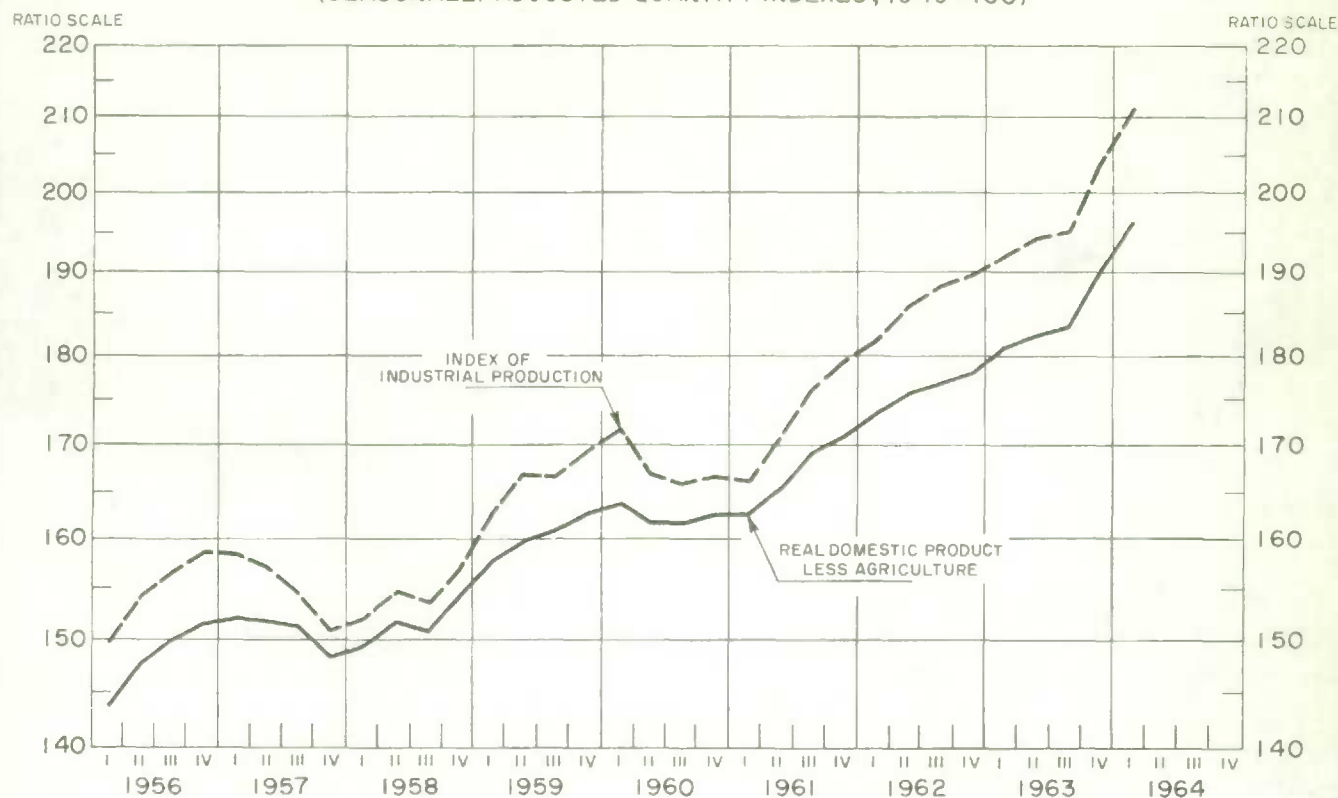
(1) See page 2 footnote (2).

TABLE 2. Industrial Production Indexes - Concluded

(1949=100)

Industry or industry group	Annual averages		Without seasonal adjustment					
			1963			1964		
	1962	1963	Feb.	Mar.	Apr.	Feb.	Mar.	Apr.
NON-DURABLE MANUFACTURES -								
Concluded:								
Printing, publishing and allied industries	154.0	156.7	151.2	157.4	157.8	158.7	163.3	173.8
Products of petroleum and coal	272.8	296.0	286.9	297.7	275.9	316.8	296.8	281.5
Petroleum products	294.3	319.7	309.3	321.6	296.8	343.2	320.6	
Chemicals and allied products	233.2	249.1	234.8	244.8	249.5	273.8	283.2	282.0
Acids, alkalies, salts and fertilizers	266.0	302.0	273.2	299.6	311.8	321.0	340.7	356.1
Miscellaneous manufactures	237.2	246.6	233.1	235.5	237.6	247.9	250.6	252.2
DURABLE MANUFACTURES	165.0	175.9	170.7	170.6	172.6	191.4	192.4	196.0
Wood products	151.5	159.0	163.4	161.7	142.1	177.2	175.1	159.8
Saw and planing mills	161.1	172.1	181.5	179.3	150.4	199.4	196.1	173.6
Veneers and plywoods	329.8	358.8	375.4	354.8	356.2	420.3	417.6	424.9
Sawmills	149.6	162.3	177.6	176.4	135.0	194.5	189.7	155.3
Furniture	152.5	153.0	146.2	145.1	145.2	151.1	151.1	150.9
Iron and steel products	152.1	161.8	155.7	158.8	159.7	171.4	174.7	182.4
Machinery	149.1	160.2	154.4	154.9	157.0	165.8	168.0	170.2
Iron castings	135.5	151.1	159.9	175.4	165.5	176.2	173.1	198.5
Primary iron and steel	193.0	216.9	205.9	207.2	213.5	229.2	236.0	255.0
Sheet metal products	157.3	156.9	146.3	148.8	152.2	149.7	152.5	156.3
Transportation equipment	156.7	181.4	183.9	180.5	197.8	224.3	227.6	233.2
Aircraft and parts	260.0	233.8	232.9	230.0	225.9	264.9	263.8	263.2
Motor vehicles	206.9	257.6	269.2	258.8	299.0	346.2	356.2	367.6
Motor vehicle parts	146.6	179.5	171.1	172.8	178.6	217.8	216.4	220.4
Railway rolling stock	41.5	41.1	39.4	39.0	38.7	44.9	45.6	45.5
Shipbuilding and repairs	186.9	197.2	197.3	203.1	212.4	178.5	175.0	180.0
Non-ferrous metal products	148.9	148.8	147.1	145.6	149.7	157.9	158.2	163.7
Brass and copper products ...	126.9	133.4	124.1	125.3	127.3	143.9	146.5	148.6
Smelting and refining	164.2	161.6	163.3	160.5	165.7	172.4	171.7	179.6
Electrical apparatus and supplies	212.9	223.5	220.6	216.2	212.6	229.5	225.8	228.4
Heavy electrical machinery ..	149.8	154.3	153.9	151.7	150.8	154.4	155.1	155.7
Telecommunication equipment	524.1	546.9	551.4	513.3	481.4	577.1	530.8	523.2
Refrigerators and appliances	198.4	221.6	221.9	228.6	219.4	226.3	227.0	240.3
Non-metallic mineral products	240.9	243.0	179.8	189.5	208.8	219.7	220.5	244.1
Concrete products	655.0	652.3	350.5	431.2	521.0	560.0	565.5	688.8
Hydraulic cement	241.9	246.0	138.1	148.5	206.3	175.9	179.5	254.8
Domestic clay products	148.1	136.7	101.0	103.9	117.7	113.2	126.3	146.0
ELECTRIC POWER AND GAS UTILITIES	337.7	367.4	406.8	380.0	363.7	441.3	427.8	422.2
Electric power	313.1	339.2	345.4	332.4	328.5	386.1	377.8	373.3
Gas	558.3	620.1	957.6	807.4	679.7	936.7	876.6	861.2

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, FIRST QUARTER, 1964

Seasonally adjusted non-agricultural output for the first quarter of 1964 showed an increase of just over 3 per cent from the fourth quarter of 1963. It has thus increased by over 8 per cent since the first quarter of 1963 and by 21 per cent from its first quarter, 1961 cyclical trough. The industries comprising the Index of Industrial Production contributed substantially to the 1961 - 64 expansion, accounting for about 48 per cent of the increase, followed by trade with a 15 per cent contribution and transportation, storage and communication, which accounted for 11 per cent. The following is a comparison of percentage increases in non-agricultural output and the Index of Industrial Production over the course of recent cycles in real output.

Increase from trough to peak

	2Q'54 - 4Q'56	4Q'57 - 1Q'60	1Q'61 - 1Q'64(1)
	10 quarters	9 quarters	12 quarters
	per cent		
Total non-agricultural output	22.2	10.1	20.9
The Index of Industrial Production	25.4	13.7	27.1

Increase from previous peak

	3Q'53 - 4Q'56	4Q'56 - 1Q'60	1Q'60 - 1Q'64(1)
	13 quarters	13 quarters	16 quarters
	per cent		
Total non-agricultural output	20.4	7.9	20.0
The Index of Industrial Production	23.0	8.0	23.2

Some special factors affecting the economy during the fourth quarter were still at work during the opening months of 1964. The large export sales of grain, necessitating its transportation by rail and ship; the government programme for the stimulation of winter house - building which was operative during the last two quarters; the imminence of the second, and higher, stage of the tax on building materials which became effective as of April; and the high levels of automobile production, are among the most important of these special influences. Thus in many instances the strong upward movements evident in late 1963 were continued in the current year, with a slackening during March in some areas of production. The milder than average weather conditions in the first quarter may also have influenced output levels in some industries.

Among the major industry groupings, gains were widespread in the first quarter of 1964, ranging from a fractional increase in electric power and gas utilities to an almost 15 per cent gain in non-metallic mineral products. There were only a few declines: in the tobacco, petroleum and leather products components of manufacturing and in storage.

The most notable development in the quarter was the 9 per cent increase in construction which accounted for about one-fifth of the gain in non-agricultural output. Following upon a 6 1/2 per cent increase in the fourth quarter, this current gain brought construction to a level more than 8 per cent above its previous post-war high reached during the second quarter of 1958. The expansion in construction activity also stimulated production in related industries, as shown by the large gains in the output and sales of building materials during this period.

(1) Production was still increasing during the first quarter.

Manufacturing, with a 3 1/2 per cent gain, continued to be the largest single contributor to the aggregate gain, accounting for over 30 per cent of the advance in non-agricultural output. For the second quarter in succession, durable manufacturing showed a particularly large gain (5 per cent versus 6 per cent in the preceding quarter). Increases of between 3 and 5 1/2 per cent were recorded by all major groups except electrical apparatus and supplies (+ 1 per cent) and non-metallic mineral products (+ 14 1/2 per cent). This last group, which accounted for over one quarter of the gain in durables, advanced largely as a result of the exceptional increases in the cement and concrete products industries. It is interesting to note that other industries which produce construction materials, for instance, wood products, and some components of iron and steel in durables, as well as roofing paper and paints and varnishes in non-durables, also showed very strong gains for the quarter. In many of these industries, however, output showed some declines in March. Motor vehicle production, which has increased by more than 120 per cent since the first quarter of 1961, advanced by 4 1/2 per cent in the first quarter. While still high, this is a smaller increase than that achieved during the preceding three months. Non-durable manufacturing advanced by 2 1/2 per cent, thus accounting for about one third of the total increase in manufacturing. About half of the increase in non-durables came from the foods and beverages component, while the 5 per cent gain in chemicals contributed another 29 per cent to the advance.

Trade was the second largest contributor to the expansion in non-agricultural output during the first quarter, accounting for about 20 per cent of the total gain, followed by construction and durable manufacturing. More than half of the increase in trade came from the wholesale component, which increased by 6 1/2 per cent. Retail trade showed a 3 per cent gain. At both the retail and the wholesale levels particularly sharp increases took place in the sales of lumber, building, and construction materials and industrial and transportation equipment. Together they accounted for a major part of the total expansion in trade.

Transportation, storage and communication expanded less rapidly than during the fourth quarter, with railway transport, shipping and communication jointly accounting for about three quarters of the 2 1/2 per cent gain in the first quarter. Railways and shipping were again affected by large wheat movements. It must be remembered that the increases in the output of these two industries, although smaller than during the preceding quarter, represent an advance from very high fourth quarter levels. Storage showed a drop in the first quarter, mainly as a result of a decline in receipts and shipments at grain elevators from an exceptionally high fourth quarter.

Mining showed a strong gain of over 6 per cent in the first quarter, following a 5 1/2 per cent increase in the fourth quarter of 1963. During most of 1962 and 1963 the increases had been relatively small. The major part of the first quarter increase in mining came from the metal mining component, which advanced by 11 1/2 per cent, about half of which was due to iron ore.

Public administration and defence increased by less than 1 per cent after a pause in the fourth quarter, while finance, insurance and real estate and the community, recreation, business and personal service group exhibited a slight slowdown in their rates of advance as compared with the previous quarter.

[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	127.6	167.9	133.0	175.2	160.6
2								
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	148.6	195.6	215.8	137.4	172.1	133.6	170.0	158.3
2								
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	302.4	272.7	256.8	193.0	171.3	176.8	209.1	156.8
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	306.4	272.5	247.7	188.7	170.4	169.6	223.7	156.6
2								
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	284.0	197.2	390.6	206.5	194.8	235.0	185.0
2								
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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	213.2	127.9	439.2	187.1	170.9	197.4	168.4
2								
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	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	197.4	178.5	200.6	190.4	168.0	196.4	193.5	211.1
2								
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	196.1	154.0	196.7	184.3	163.4	182.4	189.6	207.4
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