



MANUFACTURERS OF PLASTICS AND SYNTHETIC RESINS 1964

ANNUAL CENSUS
OF MANUFACTURES



Published by Authority of The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

Industry Division

December 1966 6506-861 Price: 50 cents

PUBLICATIONS

In addition to the report, on this industry, the DBS publishes annual statistics on a number of related industries and current statistics on the more important commodities. Copies of reports provided in the following list are available from the Information and Public Relations Division of the DBS, Ottawa or from the Queen's Printer, Hull, P.Q.

			Pr	ice
Catalogue number	Title	Periodicity	Per	Per year
46 - 209	Manufacturers of Pharmaceuticals and Medicines	Α	.50	
46 - 210	Paint and Varnish Manufacturers	A	.50	
46 - 211	Manufacturers of Plastics and Synthetic Resins	A	.50	
46 - 214	Manufacturers of Soap and Cleaning Compounds	A	.50	
46 - 215	Manufacturers of Toilet Preparations	A	.50	
46 - 216	Other Chemical Industries	A	.50	- 8
46 - 217	Chemicals and Chemical Products Industries Preliminary Summary			
	Statistics	A	. 25	
46 - 218	Explosives and Ammunition Manufacturers	A	. 25	
46 - 219	Manufacturers of Industrial Chemicals	A	.50	
46 - 220	Manufacturers of Mixed Fertilizers	A	.50	
31-001	Inventories, Shipments and Orders in Manufacturing Industries	M	.30	\$3.0
31 - 201	General Review of the Manufacturing Industries of Canada	A	\$2.00	
32 - 005	Margarine	M	.10	1.0
32 - 006	Oils and Fats	M	.10	1.0
32 - 205	Breweries	A	.50	
32-206	Distilleries	A	.50	
32-222	Sugar Refineries	A	.50	
33 - 202	Leather Tanneries	A	.50	
34 - 208	Synthetic Textile Mills	A	.50	
36 - 204	Pulp and Paper Mills	A	.50	
45 - 004	Refined Petroleum Products	M	.30	3.0
45 - 205	Petroleum Refineries	A	.50	
46 - 001	Sales of Paints, Varnishes and Lacquers	M	.10	1.0
46 - 002	Specified Chemicals	M	.10	1.0
46 - 003	Soaps and Synthetic Detergents	M	.10	1.0
46 - 207	Fertilizer Trade	A	.50	
46 - 212	Sales of Pest Control Products by Canadian Registrants	A	. 25	
46 - 221	Sales of Toilet Preparations in Canada	A	.25	
46-502	Chemical Directory	0	1.50	
65 - 004	Exports by Commodities	M	.75	7.5
65 - 007	Imports by Commodities	M	.75	7.5
Special	Sulphuric Acid, Caustic Soda and Chlorine	Α	. 25	

A – Annual O – Occasional M – Monthly

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information and Public Relations Division. Ottawa or to the Queen's Printer, Hull, P.Q.

MANUFACTURERS OF PLASTICS AND SYNTHETIC RESINS

1964

For statistical purposes the industry titled Manufacturers of Plastics and Synthetic Resins in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing synthetic resins in such forms as powders, granules, flakes, liquids or simple sheets. This industry also includes establishments primarily engaged in manufacturing transparent cellulose film; however, establishments primarily engaged in making film as such from purchased resins are classified in the Plastic Fabricators, n.e.s. industry. Not all producers of synthetic resins are included in this industry as some concerns make synthetic resins as secondary or minor products, or as intermediates for the further use of the producer, e.g., in the manufacture of laminates, paints, etc. Statistics relating to the latter have been included in the appropriate industries which are reviewed in separate bulletins.

Value of shipments and other revenue of the Manufacturers of Plastics and Synthetic Resins industry totalled \$196 million, an increase of \$22 million over 1963. This amount included shipments of synthetic resins (actually made or compounded) valued at \$98 million, shipments of other products (secondary products) valued at \$58 million, and other revenue of \$40 million.

This industry's shipments of synthetic resins represented 63 per cent of its manufacturing revenue. Secondary products shipped by this industry in 1964 included cellulose film, adhesives, glycols, paints, varnishes and stains, plasticizers, brakefluid, etc.

The cost of materials and supplies, etc. used in the production of goods of own manufacture increased by \$6 million. Cost of materials and supplies, etc. (inputs) in 1964 represented 51.7 per cent of the value of shipments of own manufacture (outputs), compared to 53.7 per cent in 1963.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

				Manu	facturing	activity				T	otal activ	rity	
Year and	Estab- lish- ments		duction a sted work		Cost of	Cost of	Value of shipments of goods	Value		owners artners	Empl	loyees	Value
province	ments	Number	Man- hours pald	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$'0	00
1961													
Totals	31	1,957	4, 400	10,090	3,656	60, 259	111, 345	48, 104	_	10 -	3,466	19, 356	51,879
1962		10											
Totals	28	1.955	4,387	10, 487	3, 814	65.747	128, 071	59, 832	-	-	3, 509	20, 088	64, 100
1963													
Newfoundland		-			ana	_	_	_	_	_		_	_
Prince Edward Island				11.75	auton	_	A		-	_	_	_	-
Nova Scotia	_		_		_	_	/-	-		_	_	near .	-
New Brunswick	_		- man		_	ana a	1/-	_	-	_	_	_	_
Quebec	7	944	2,090	5,325	1,987	28,261	61,550	30,942	-		1,674	9, 611	32,606
Critario	15	762	1,734	3,906	1, 178	29, 180	47, 249	17,254	_	_	1,302	7,395	19,048
Manitoba	-	_	_	_	_	_	1/ -	-	_	_	-	-	_
Saskatchewan	_	-	1	===		-	-	-	10(1-)	11-11	-	_	-
Alberta	4	1										4 470	
British Columbia	3	330	716	1,893	795	12,971	30, 287	15,838		-	644	3, 978	16, 216
Yukon and Northwest Territories	-	-	-	-	-	-	-	-		-	-	- 1	-
Totala	29	2,036	4,540	11, 125	3, 960	70, 412	139, 085	64, 033	-	-	3, 620	20, 984	67,870
1964													
Newfoundland	-	-	-	1-	-	- 11	-	-	-	-	-	-	-
Prince Edward Island	-	_	-	1-	-	-	-	_	-	-		-	-
Nova Scotia	-	-	-	-	-	-	-	-		-	-	-	- 11 -
New Brunswick	-	-	-	-	18.	-	-	-	_	0-	-	-	-
Quebec	10	964	2, 198	5,603	2,099	32,062	73, 483	39, 109		x	1,712	10,386	42, 10
Ontario	17	841	1,960	4, 415	1, 284	30, 247	52,629	20, 973		-	1,406	8, 231	22,736
Manitoba	-	-	-	-	-	ades	1111-	-	-	-	-	-	ran vi
Saskatchewan	-	194	1 -		4	-		131-	-	-	150	_	-
Alberta	4	345	749	2,034	855	13,789	29,587	14,929	_	-	651	4, 128	16, 120
Entish Columbia	3							13			THE S		36
Yuken and Northwest Territories	-	-	-	-	-	-	1	-	- 1	-	-	-17	-
Totals	34	2, 150	4, 908	12,052	4, 238	76,098	155, 698	75, 012	x	ж	3, 769	22, 745	80, 96

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

				Man	ufacturing	activity				T	otal activ	vity	
Size group	Estab- lish- ments		duction a		Cost of	Cost of	Value of shipments of goods	Value		owners	Empl	oyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$'(000
1963													
Under \$10,000	=	=	==	_	-	=	=	-	-	=	_	=	T = =
50,000 ' 99,999 100,000 ' 199,999 200,000 ' 499,999	5	23	47	89	12	747	1,328	572	-	_	45	228	613
500,000 '' 999,999 1,000,000 '' 4,999,999 5,000,000 and over Head offices, sales offices and	11 9	26 261 1,726	55 572 3,866	103 1,318 9,615	23 341 3,584	1,756 17,099 50,811	2,521 25,455 109,780	728 8,149 54,585			500 2,940	205 2,774 17,143	725 10,082 56,488
auxiliary units	446	4 * *									91	635	(38
Totals	29	2,036	4,540	11,125	3,960	70,412	139, 085	64, 033	_	_	3,620	20,984	67,870
1964													
Inder \$10,000	_	_		-	-	-	-	-	-	-	-	-	-
25,000 ' 49,999 50,000 ' 99,999	} 4	7	13	20	2	100	160	59	x	х	14	34	59
100,000 '' 199,999 200,000 '' 499,999	-	177	35	71	12	-	1 040	378		-	-	010	442
500,000 '' 999,999	5	17 63	144	257	42	1,990	1,243	1,296	_	_	35 86	216 395	1,294
1,000,000 " 4,999,999 5,000,000 and over	12	3 04 1,759	669 4,047	1,564 10,139	388 3,794	19,558 53,585	29,156 121,837	9,311 63,968	-	_	551 2,971	3,211 18,086	11,246 67,961
auxiliary units				***		0 4-6			100		112	8 02	(42
Totals	34	2,150	4.908	12,052	4,238	76,098	155,698	75,012	x	x	3,769	22,745	80, 960

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

				Мал	ufacturing	activity				T	otal activ	vity	
Size group	Estab- lish- ments		duction s ted work		Cost of	Cost of	Value of shipments of goods	Value		owners	Emp	loyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$1000				\$'000		\$*0	00
1963													
Under \$10,000	-	-	-	T	-	-	-	-	-	-	-	-	400
25,000	8	64	135	290	71	3,064	4,191	1,031		-	113	581	1,463
200,000 '' 499,999	5 8 4	55 84 815 1,018	118 178 1,861 2,248	2 05 4 26 4 . 251 5 . 952	36 100 1,271 2,482	1,949 7,756 33,253 24,391	3,071 11,317 52,865 67,640	1,103 3,538 18,687 39,675		=	74 194 1,434 1,714	316 1,059 8,039 10,354	1,133 3,959 20,246 41,106
Head offices, sales offices and auxiliary units							***			0 0 4	91	635	(38
Totals	29	2,036	4,540	11,125	3, 960	70,412	139, 085	64,033	-		3,620	20,984	67,87
1964													
Jnder \$10,000	} 6	11	22	38	9	565	754	190	x	х	23	93	194
100,000 '' 199,999 200,000 '' 499,999 5,00,000 '' 999,999 1,000,000 '' 4,999,999	4 7 4 9	25 1 04 113 820 1,077	52 242 231 1,925 2,437	113 451 535 4,416 6,498	11 75 128 1,521 2,494	1,808 4,571 7,264 31,025 30,866	2,361 6,969 10,298 55,442 79,874	566 2,381 3,047 22.654 46,174		=	43 157 189 1,316 1,929	247 790 1,056 7,762 11,994	2,41 3,69 24,46 49,61
Head offices, sales offices and auxiliary units			2,201	***				***		***	112	802	(4:
Totals	34	2,150	4.908	12,052	4,238	76.098	155,698	75,012	x	x	3,769	22,745	80.960

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

				Man	ufacturing	activity				Т	otal activ	ity	
Size group	Estab-		duction a ated work		Cost of	Cost of	Value of shipments	77.3	Working and pa		Empl	oyees	Value
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$'0	00
1963													1
Under \$10,000 \$ 10,000 to \$ 24,999	1	-	-	_	-	_	_	-	_	-	-	-	-
25,000 '' 49,999 50,000 '' 99,999 100,000 '' 199,999	7	28	59	122	24	1,998	2,892	862	144	-	62	335	895
200,000 " 499,999 500,000 " 999,999 1,000,000 " 4,999,999 5,000,000 and over	6 8 4	55 120 815 1,018	118 254 1.861 2,248	205 594 4,251 5,952	36 147 1,271 2,482	1,949 8,822 33,253 24,391	3,071 12,616 52,865 67,640	1, 103 3, 707 18, 687 39, 675		=	74 245 1,434 1,714	316 1,305 8,039 10,354	1,133 4,527 20,246 41,106
Head offices, sales offices and auxiliary units				A = 4	0.00				* * *		91	635	(38
Totals	29	2,036	4,540	11, 125	3,960	70, 412	139, 085	64, 033	-	-	3,620	20, 984	67, 876
1964													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999	5	8	15	24	3	265	360	95	х	х	17	58	9
50,000 '' 99,999 100,000 '' 199,999	5	28	58	127	17	2, 108	2,755	660			49	281	729
200,000 " 499,999	3 9	143	325	659	118	8.143	11,990	3,846	_	_	238	1,280	3, 99
1,000,000 '' 4,999,999 5,000,000 and over	11 4	894 1,077	2,072 2,437	4,744 6,498	1,606 2,494	34,716 30,866	60, 719 79, 874	24, 236 46, 174	=	_	1,424	8,329 11,994	26, 57 49,61
Hold offices, sales offices and auxiliary units											112	802	(4
Totals	34	2,150	4.908	12.052	4, 238	76, 098	155.698	75.012	x	x	3,769	22, 745	80, 960

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

				Mar	ufacturing	activity				7	Total acti	vity	
Size group	Estab-		oduction ated work		Cost of	Cost of	Value of shipments	Value		owners artners	Emp	loyees	Value
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		1000			\$'000				\$'000		\$'0	00
1963										10.7			1
Under 5 employed	8 7 5 3	35 117 158 327	75 248 351 730	150 516 844 1, 778	27 119 230 586	2,123 7,773 9,706 12,495	3, 242 11, 582 14, 480 20, 054	1.084 3,753 4,611 7,175	-	-	71 208 310 471	372 1.043 1.791 2.781	1,117 4,139 6,163 7,610 48,878
500 employed and over	6	1,399	3, 136	7, 837	2,997	38, 315	89,726	47, 410			2, 469	14, 362	(38
Totals	29	2,036	4,540	11, 125	3,960	70, 412	139, 085	64,033	mino.	-	3,620	20,984	67,870
1964						- B 11							
Under 5 employed	4 6 11 4 4 5	27 198 162 453	8 56 438 359 1,043 3,003	14 124 933 843 2,493 7,646	2 22 173 247 974 2,820	230 2, 211 11, 637 8, 435 18, 191 35, 394	302 2,997 17,398 13,163 32,910 88,927	73 806 5,713 4,452 13,625 50,343	X	x	10 54 332 290 684 2, 287	42 282 1,799 1,734 4,140 13,946	73 843 6, 028 6, 098 14, 196 53, 766
ii and offices, sales offices and auxiliary units							4 6 0		n n 0		112	802	(4
Totals	34	2,150	4,908	12,052	4, 238	76,098	155, 698	75,012	×	x	3, 769	22, 745	80,96

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

				Mar	ufacturing	activity					Total acti	lvity	
Type of organization	Estab-		oduction ated wor		Cost of	Cost of	Value of shipments			owners	Employees		
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000				\$'000		\$*(000
1963							1	1					
Individual ownerships	_	_	-	_	_	_	_	_	_	_		alte	-
Partnerships		_	_	-	_	_	_	_	_	_	abbo	_	_
Incorporated companies	29	2,036	4,540	11,125	3,960	70,412	139,085	64,033			3,529	20,350	67,908
Co-operatives	_	_	_	_	_	-		_	_			4000	_
Head offices, sales offices and auxiliary units							***				91	635	(38
Totals	29	2, 036	4, 540	11, 125	3,960	70.412	139,085	64, 033	-	de	3,620	20, 984	67.870
1964													
Individual ownerships	1												
Partnerships	34	2.150	4,908	12.052	4.238	76,098	155,698	75.012	x	x	3.657	21,943	81.002
Incorporated companies								10,010			3,001	21,310	01,002
Co-operatives	_		_						-				
Head offices, sales offices and auxiliary units		200									112	802	(42)
Totals	34	2, 150	4,908	12,052	4, 238	76,098		75, 012	x	x	3, 769	22,745	80.960

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

THE PERSON NO.	Manufact activi		Non-manufa activit		Tota actlvi	
	1963	1964	1963	1964	1963	1964
			\$'00	0		
Output						
1. Shipments and other revenue	139,085	155,698	34,849	40,171	173,934	195,869
Inventories - Goods of own manufacture:						
Add closing - Goods in process	1,783	2.011		+ + +	1.783	2.011
Finished goods	8,876	8,612	***		8,876	8,612
Deduct opening - Goods in process	1.627	1,783			1,627	1.763
Finished goods	9,711	9,190	***		9,711	9.190
2. Net inventory change	(679)	(350)			(679)	(350
3. Gross output (1+2)	138,406	155,348	34,849	40, 171	173, 255	195,519
Input						
4. Purchases of goods not of own manufacture			30,365	34.541	30,365	34,541
Inventories - Goods not of own manufacture:						
Add opening			2,620	3,079	2, 620	3,079
Deduct closing	4 + 4		2.463	4,067	2,463	4, 067
5. Cost of goods sold (not of own manufacture)	• • •		30,522	33,553	30,522	33,553
6. Materials, supplies, etc.	70,412	76,098	490	670	70, 902	76.780
7. Fuel and electricity	3,960	4,238	* * *		3,960	4.33
8. Gross input (5 + 6 + 7)	74,372	80,336	31,012	34, 223	105,384	114, 950
Value added (3 - 8)	64, 033	75, 912	3,837	5.948	67,870	80,960

TABLE 8. Employment and Payroll, 1963 and 1964

					Emplo	yees						Salarie	es and wa	ges	
Year and		Product related			Admi	inls-	Sal	es	To	tal	Producti		Admin-	Sales	
province	Manufa	cturing	Ot	het		office	distri				related w	vorkers	istra- tive and	and distri- bution	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	Dutton	
					numt	et							\$'000	-	
1963										1					
Newfoundland	-	- 1	-	atte	-	-	-	-	-	-	_	_		-	-
Prince Edward Island	-	-	-	-	-	-	-	_	-	-	-	_	-	-	-
Nova Scotia	_	othe	-	-	_	-	-	_	_	-	-	-		-	-
New Brunswick	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-
Ruebec	928	16	14	_	535	125	43	13	1,520	154	5.325	76	3,846	363	9,61
Ontario	736	26	14	2	28 2	98	102	42	1,134	168	3,906	86	2, 439	963	7,39
Manitoba	-	-	_	-	_		-	_	-	-	-	-	-	-	-
Saskatchewan	-	white	-	-	-	-	-	-	-	-	-	-	_		-
Alberta	3 24	6	В	-	226	46	30	4	588	56	1,893	51	1,815	218	3,97
Yukon and Northwest Terri- tories	_	-	_	_	_	-	-	_	_	_	_	-	_	-	
Totals	1,988	48	36	2	1, 043	269	175	59	3, 242	378	11, 125	214	8, 100	1.545	20, 9
1964															
Newfoundland	-	-	_	_	-	-	_	-	-	-	-	-	-	_	-
Prince Edward Island	-	-	_	_	-	-	-	-	-	-	-	-	-	_	-
Nova Scotia	-	-	_		-	-	-	-	-	-	-	_	-	-	-
New Brunswick	-	-	-	-	-	-	_	-	-	-	-	_	-	-	-
Quebec	944	20	16	-000	547	126	4.8	11	1,555	157	5,603	98	4,258	426	10,38
Ontario	812	29	4	-	313	103	102	43	1,231	175	4,415	24	2, 757	1,034	8, 23
Manitoba	-	_	-	-	-	-	-	-	-	-	-	-	-	-	
Saskatchewan	-	_	-	-	-	-	_	-	_	-	-	-	-	-	-
Alberta	339	6	3	-	224	46	29	4	595	56	2,034	24	1,841	229	4,13
Yukon and Northwest Terri- tories	_	_	_	-		_	_	_	-	-	_	_	_	_	
Totals	2.095	55	23	_	1, 084	275	179	58	3, 381	388	12, 052	147	8,857	1.690	22.74

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

	196	3	196	4
Month	Male	Female	Male	Female
		numbe	er	
Establishments reporting monthly detail (large establishments only):				
January	1,922	46	2,004	56
February	1,935	45	2,004	5
March	1 040	45	2,045	5
April	1 050	48	2,070	5:
May	2 025	48	2, 118	56
June	0.050	49	2,156	5
July	0.051	51	2, 152	5
August	2 020	50	2, 160	5.
September	1 000	51	2, 107	5
October	1 050	48	2,086	5
November	1 005	47	2,090	5
December	1 993	47	2,133	5-
Averages	1 000	48	2,095	5
Establishments reporting annual averages (small establishments only)		-	-	-
Average for all establishments	1 000	48	2,095	5

TABLE 10. Inventories, 1964

The state of the s		Manufa	cturing		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	Total inventories
Opening:	1		book value	\$'000		
Newfoundland						
Prince Edward Island	_	_	_	_	_	
	-	_	_	_		-
Nova Scotia	-	_	_	_	-	_
New Brunswick			_			-
Quebec	2,519	1,299	3,922	7,741	1,113	8.853
Ontario	3.167	361	3,900	7,428	880	8,307
Manitoba	_			_	-	med first to the
Saskatchewan	-	-	-	-	-	_
Alberta	993	122	1,368	2.484	1,087	3,570
British Columbia]					
Yukon and Northwest Territories	-	_	-	_	-	-
Totals	6 .679	1.783	9,190	17, 652	3, 079	20, 731
Closing:						
Newfoundland	-	_	_	_	_	_
Prince Edward Island	_	_		_	_	_
Nova Scotla	-	7 -	_	-	_	_
New Brunswick	_			_	-	_
Quebec	2,625	1.598	3,411	7.634	1.555	9.189
Ontario	3.125	354	3,782	7,262	986	8.248
Manitoba	_	_		_	_	_
Saskatchewan	-		_		_	
Alberta	1		1 415	0.000		H
British Columbia	1,209	58	1,419	2.686	1,526	4.313
Yukon and Northwest Territories	_	E DOLL	1/2	_		
	6 000	7 011	0 010	19 500	4 007	71 (20
Totals	6,959	2,011	8,612	17, 582	4, 067	21,650

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

	Total Control	1963		1964	
Description		Quantity	Cost	Quantity	Cost
			\$,000		\$'000
Large establishments reporting commodity detail;					
Bituminous coal:					
(a) From Canadian mines	ton	38,122	367	37,938	37
(b) imported	4.6	100	2	80	
Sub-bituminous coal (from Alberta mines only)		-	-	_	-
Anthracite coal	4.0		_		_
Lignite coal	**	-	-	_	-
Coke	e4	_	_	_	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	211,526	74	238,808	8
Fuel oil including kerosene or coal oil	# d	9,656,948	710	9,581,641	71
Wood	cord		-	_	
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	44, 297	11	23,627	
(b) Other manufactured gas	M cu.ft.	-	_	make	
(c) Natural gas	44	3,885,227	690	4,172,675	74
Other fuel	0 * 4 > 0	T	48	17.1	8
Electricity purchased	kwh.	336,051,053	1,731	369,974,231	1,89
Steam purchased	****		327		33
Small establishments not reporting commodity detail:					
Estimate for fuel and electricity		-	-	_	-
All establishments:					
Total fuel and electricity used			3, 960		4. 23

TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964

		1963		1964	
Description		Quantity	Cost	Quantity	Cost
			\$*0.00		\$*000
Materials used:					
Acetic anhydride	. 1b.	3,709	1	5,590	1
Acid - Adipic		1,196,719	300	1,238,169	310
Fatty - Stearic		112,252	21	175,205	34
Other fatty acids		2, 192, 045	266	2,181,683	26
Formic		287,271	41	212, 993	3
Hydrochloric (muriatic), 100%		301,404	11	325, 602	i
Sulphuric, all grades, including oleum (as 100%)	•	47, 151, 940	605 2,255°	48,981,217	2,34
Other		• • •		***	
Alcohol - Butyi (including isobutanoi)		3, 357, 847	510	2,581,282	37
Ethyl		135,413	139 ^r	132,770	16
Isopropy1		2,735,171	264	2,215,997	24
Methyl		2,545,772	845	3,631,306 5,562,077	1,10
Other		1,841,716	244		13
Casein		289,809	63	343,354	9
Chlorine, liquid		478, 394	3	494,506	
Cresol (including cresylic acid)		1,472,892	252	1,573,419	24
Dibutyi phthalate		469,829	114	468,084	10
Dyes and pigments		***	494		59
Ethyl acetate		1,023,359	1 14	1,115,842	11
Formaldehyde (100% solids content)		23,610,275	2,338	21,389,531	1.75
Gircerine		3,709,886	85 1	4,223,367	1,04
Strools - Ethylene	**	6,514,442	778	6,858,046	80
Wathylene		713,258	111	797,451	12 54
Propylene		2, 193, 287	94	2,765,702 357,068	54
Other grades		5 12, 206			
Maiele magaride		497,805	82	357,080	5
Oils, vegetable - Castor	44	1,367,670	216	1,544,956	23
Chinawood	4.4	175,063	79	298,027	5
Linseed	Imp. gal.	154,795	24 6	206,075	29
Soy a bean		9,112,489	1,096	9,872,486	1,15
Tall		689, 823	73	746, 826	,
Other vegetable oils	14	515,551	95	132,418	2
Pentaerythritol	4.0	1,899,688	532	2,192,086	59
Phenol	41	30,470,481	3,677	36, 158, 745	4,1
Phthalic anhydride	64	9,811,866	1,085	11,613,629	1,34
Plasticizers (not elsewhere specified)		5,868,782	1,021	6,684,641	1,0
Polyethylene type resin (all forms; for compounding only)		19, 120, 125	3,672	19,723,942	2,8
Resins, other (all forms; for compounding only)		5, 274, 442	927	7,852,422	1,4
Resorcinol		362,773	239	435,044	28
Sodium hydroxide (caustic soda)		30,063,392	914	33,679,367	91
Styrene monomer		32, 292, 554	3,370	35, 099, 208	3, 29
Toluene (toluol)		1,414,651	395	1,773,899	41
Urea		9,709,885	471	10,944,447	45
Vinyl monomers - Vinyl acetate type	114	4,766,610	704	4,692,683 45,836,172	4,6
Other vinyl monomers		34,555,892	3, 168		
Xylene (xylol)		2,640,478	169	2,828,081	1
All other materials and components used			27, 782°	0 0 0	30,3
Containers and other packaging materials and supplies used	7+1	0.0	2,608		3,0
Operating, maintenance and repair supplies used (excluding fuel)	1+1	* * *	5,803	0 0 0	5.7
. Manual paid out to others for work done on materials owned by establishments	***		84.8	* * *	8

TABLE 13. Shipments of Selected Goods of Own Manufacture - All Industries

(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Synthetic Resins, all Types, 1955-64

Year	Value
	\$'000
55	49,430
57	50,530 54,930
58	66,441 73,827
60	88,178
62	91,975 96,709
64	116,960

⁽a) Includes casein-type, vlnyls, polystyrene, alkuds, phenol-formaldehyde, urea-formaldehyde, sodium carboxymethyl-cellulose, polyethylene, cellulose acetate, nylon flake, etc.

(b) Includes only resins or equivalent forms made for sale as there is no adequate record of resins made for own or captive use.

B. Specified Synthetic Resins,1 1963 and 1964

Туре	196	3	1964	
	Quantity	Value	Quantity	Value
	M lbs.	\$'000	M lbs.	\$'000
Alkyd (excluding polyester). Alkyd polyester. Phenol-formaldehyde Urea-formaldehyde Vinyl chloride Polystyrene³ Polyetylene	53,504 79,295 156,333	8,508 3,217 10,427 2,606 10,670 14,628 33,570	76, 233 88, 272 192, 520	9, 293 3, 347 11, 414 3, 141 15, 147 15, 162 40, 053

Does not include resins made for own or captive use such as alkyds in paints, phenol-formaldehyde in laminates; however, phenol-formaldehydes and urea-formaldehydes sold as gives are included in the relevant categories.

These resins are marketed, for the most part, in solution forms of varying concentration and may be reported in terms of gross weight of solution or net resin content. Under these circumstances it is difficult to develop meaningful quantity data. For this reason quantity figures are not shown.

Figures shown in the quantity column for these categories reflect the weight of the resins in all forms including equivalent forms such as sheet, foamable pellets, moulding compounds, etc. and, therefore, totals shown are not necessarily indicative of total net weight at soil.

List of Establishments classified to This Industry, 1964

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location		
Quebec:			
Canadian Plastics Limited	1850 St-Antoine St., Montreal		
Carlew Chemicals Limited	St-Rémi-de-Napierville		
Continental Plastic	1481 - 5º Ave., Grand'Mère		
Du Pont of Canada Ltd.	Summit Ave., Shawinigan Falls		
General Resinous Products Ltd.	530 Marshall Ave., Dorval		
Monsanto (Canada) Ltd.	425 St. Patrick St., Ville LaSalle		
Produits Thiroco Inc.	10276, rue des Récoilets, Montréal-Nord		
Reichhold Chemicals (Canada) Limited Trilon Chemical Limited	Ste-Thérèse-de-Blainville		
Union Carbide Canada Ltd.	260 Victoria St., Lachine 10555 Metropolitan Blvd., Montreal East		
	10000 Metropotitati Bivd., Montreal East		
Ontario:			
Alco Compounders Ltd.	498 Eagle St. N., Preston		
Borden Chemical Co. (Canada) 1962 Ltd., The	Seymour St., North Bay		
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto		
Du Pont of Canada Ltd.	Согилла		
Goodrich, B.F. Chemical Co.	Weiland		
Hardifoam Products Ltd.	66 Fordhouse Rd., Toronto		
Hysol (Canada) Limited	44 Beechwood Dr., Toronto		
Kroypane Plastics Ltd.	1790 Eagle St. N., Preston 3581 Dundas St. W., Toronto		
Perkins Glue Co. of Canada Limited	629 Queen St. S., Kitchener		
Polyresins Limited	44 Beechwood Dr., Don Valley, Toronto		
Reichhold Chemicals (Canada) Limited	1919 Wilson Ave., Weston		
Rohm and Haas Company of Canada Ltd.	2 Manse Rd., West Hill		
Schenectady Varnish Canada Ltd.	309 Comstock Rd., Scarborough		
T C F of Canada Ltd.	First St. E., Comwall 621 Dundas St. E., Belleville		
Union Carbide Chemical Ltd. Varcum Chemical Division of Reichhold Chemicals Ltd.	621 Dundas St. E., Belleville		
	St. David St., Lindsay		
Alberta:			
Canadian Chemical Co. Ltd.	P.O. Box 99, Edmonton		
Canadian Industries Limited	Highway 16A., Edmonton		
Monsanto Canada Limited	Clover Bar		
Pacific Resins Ltd.	156th Street and 125th Avenue, Edmonton		
British Columbia:			
Monsanto Canada Limited	1550 W. 75th St., Vancouver		
Pacific Resins Ltd.	Keary St., New Westminster		
Reichhoid Chemicals (Canada) Limited	Douglas St., Port Moody		

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual. Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the establishment (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics

Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

Materials and supplies used
Goods purchased for resale as such
Fuel and power consumed
Number of employees and salaries and wages
Man-hours worked and paid
Inventories
Shipments or sales."

Each establishment is required to report on all the activities carried out within it's accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

- (a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;
- (b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

Employees

(a) Production and related workers — Manufacturing activities

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

(b) Production and related workers - Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vicepresidents, comptrollers, secretaries, treasurers. etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. Any fuel and electricity produced by establishments for internal consumption are not included in the total cost. Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

Materials and Supplies

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased, Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for companyoperated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

Inventories

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the

receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

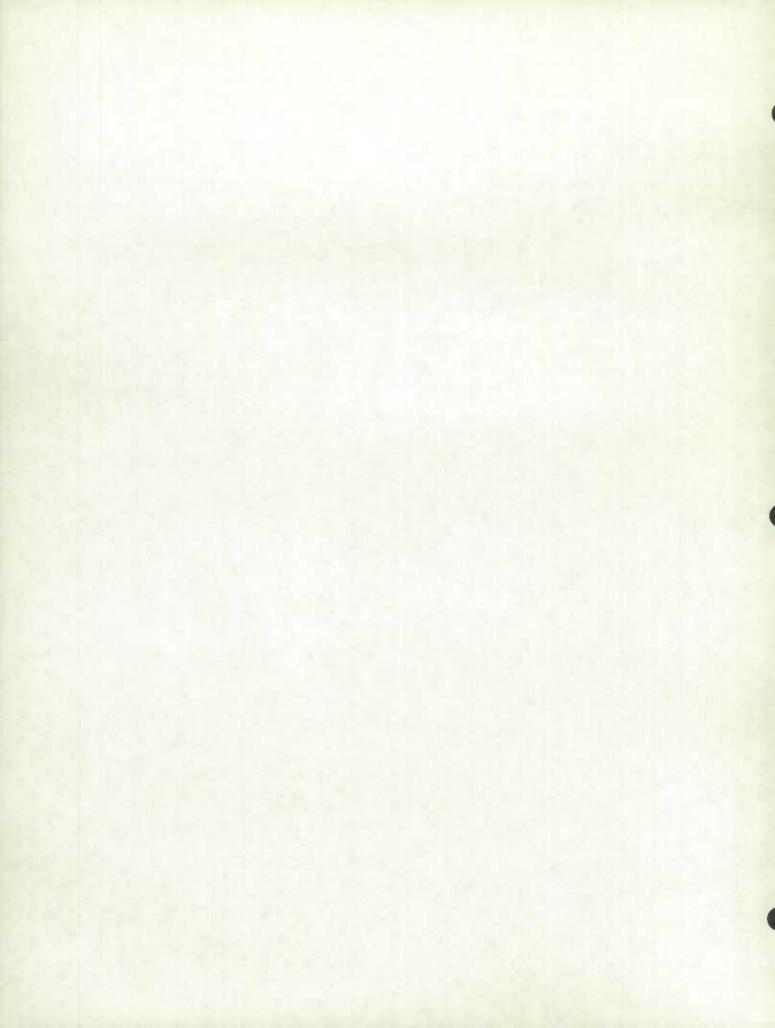
(b) By non-manufacturing activities

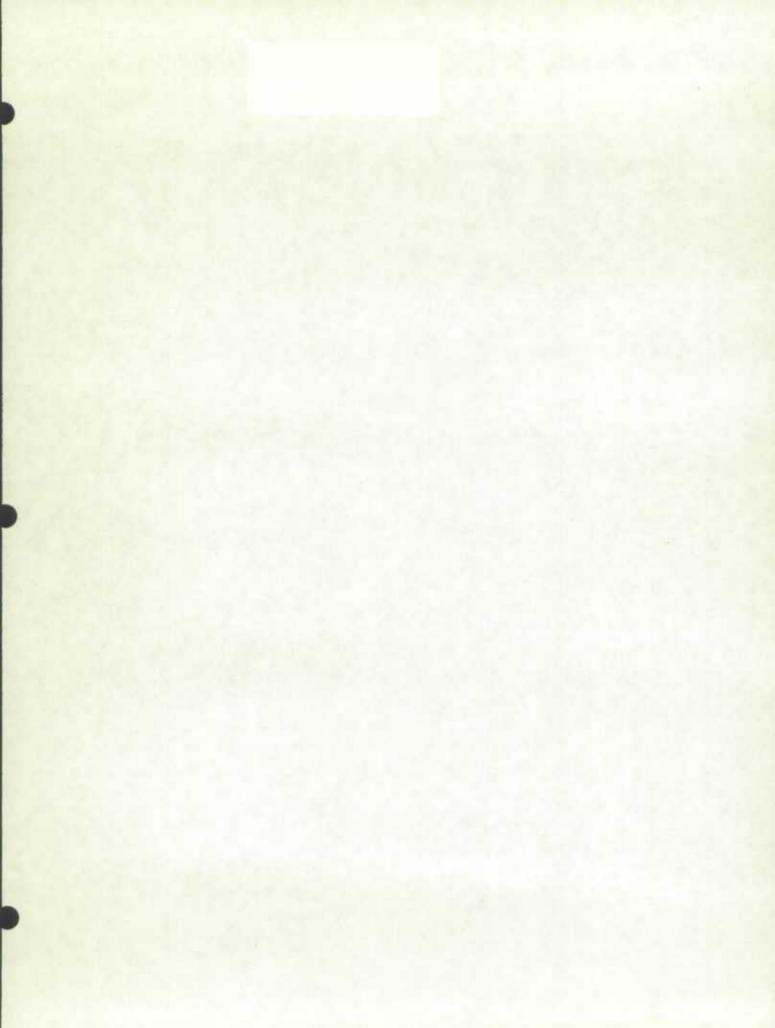
The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

chased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures, "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".





STATISTICS CANADA LIBRARY BIBLIOTHÉQUE STATISTIQUE CANADA 1010651033