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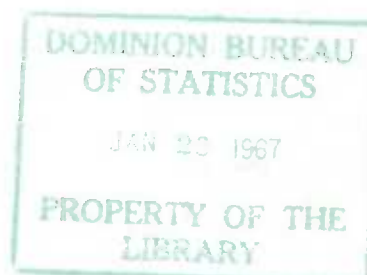
ANNUAL



OTHER PETROLEUM AND COAL PRODUCTS INDUSTRIES

1964

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PUBLICATIONS

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A — Annual

M — Monthly

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OTHER PETROLEUM AND COAL PRODUCTS INDUSTRIES

1964

For statistical purposes the industry titled Other Petroleum and Coal Products Industries in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing petroleum and coal products not elsewhere classified, such as fuel briquettes, road emulsions and roofing compounds. This industry also includes coking plants operated as separate establishments and not as a subsidiary activity in Iron and Steel or Chemical Plants.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Other Petroleum and Coal Products Industries amounted to \$23,989,000 in 1964, compared with \$22,634,000 in 1963, an increase of \$1,355,000 or about 6 per cent. Included in this total were shipments of asphalt road emulsions, asphalt paving mixtures, asphalt and bituminous coatings valued at \$10,806,000. Shipments of other manufactured products amounted to \$11,331,000 while other revenue (non-manufacturing) accounted for \$1,992,000.

This industry's shipments of asphalt road emulsions, asphalt paving mixtures, asphalt and bituminous coatings represented 49 per cent of its manufacturing revenue. Other products shipped by this industry in 1964 included other liquid asphalt and tar paving materials, asphalt roof cement, caulking compounds, coke oven products, fuel briquettes, etc.

The cost of materials and supplies, etc., used in the production of goods of own manufacture increased by \$825,000. Cost of materials and supplies, etc., (inputs) in 1964 represented 51 per cent of value of shipments of own manufacture (outputs), compared to 50 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.
- ▮ preliminary figures.
- ⋈ revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	34	363	785	1,566	383	8,986	18,565	8,907	x	x	581	2,849	9,610
1962													
Totals	31	370	790	1,653	406	9,799	19,805	9,783	x	x	608	3,148	10,275
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	8	74	161	290	142	2,462	4,668	2,069	x	x	108	496	2,104
Ontario	10	182	388	835	192	5,415	11,384	5,840	-	-	373	2,116	6,752
Manitoba	2	42	82	159	36	589	1,406	721	-	-	66	268	752
Saskatchewan	3												
Alberta	4	78	163	333	84	1,900	3,317	1,343	x	x	88	405	1,342
British Columbia	2												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	29	376	795	1,617	455	10,365	20,775	9,973	4	14	635	3,285	10,950
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	8	95	207	385	116	2,371	4,949	2,517	-	-	131	622	2,541
Ontario	9	211	437	937	221	6,318	11,987	5,704	-	-	412	2,296	6,311
Manitoba	2	45	95	178	39	487	1,281	686	-	-	66	280	734
Saskatchewan	4												
Alberta	5	87	189	390	100	2,013	3,781	1,700	x	x	117	552	1,725
British Columbia	5												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	33	438	928	1,889	477	11,190	21,997	10,608	x	x	726	3,751	11,311

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
	No.		'000			'000				'000		'000		
1963														
Under \$10,000	3													
\$ 10,000 to \$ 24,999		1	2	3	2	41	74	32	4	14	4	7	32	
25,000 " 49,999														
50,000 " 99,999														
100,000 " 199,999		4	13	26	55	27	282	587	277	—	—	23	104	275
200,000 " 499,999	14	109	221	425	162	2,499	4,848	2,072	—	—	176	808	2,131	
500,000 " 999,999	5	36	80	160	102	1,824	3,510	1,596	—	—	66	373	2,100	
1,000,000 " 4,999,999	3	217	466	974	162	5,720	11,756	5,995	—	—	308	1,434	6,444	
5,000,000 and over														
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	58	558	(31)
Totals	29	376	795	1,617	455	10,365	20,775	9,973	4	14	635	3,285	10,950	
1964														
Under \$10,000	3													
\$ 10,000 to \$ 24,999		3	7	14	9	27	28	45	x	x	14	58	55	
25,000 " 49,999														
50,000 " 99,999		3	7	16	32	6	71	167	93	—	—	10	39	93
100,000 " 199,999		4	18	35	64	24	253	543	266	—	—	30	124	301
200,000 " 499,999	13	82	170	350	135	1,957	4,275	2,194	—	—	133	657	2,276	
500,000 " 999,999	7	89	196	391	108	2,427	4,811	2,193	—	—	134	707	2,668	
1,000,000 " 4,999,999	3	239	502	1,037	196	6,456	12,173	5,816	—	—	341	1,540	5,965	
5,000,000 and over														
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	64	625	(47)
Totals	33	438	928	1,889	477	11,190	21,997	10,608	x	x	726	3,751	11,311	

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added	
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages		
	No.		'000			'000				'000		'000		
1963														
Under \$10,000	4													
\$ 10,000 to \$ 24,999		5	10	25	4	107	192	81	4	14	10	43	81	
25,000 " 49,999														
50,000 " 99,999		5	14	25	49	31	538	1,015	377	—	—	30	134	390
100,000 " 199,999		11	79	168	328	165	2,346	4,106	1,617	—	—	136	637	1,671
200,000 " 499,999	5	51	101	197	88	1,526	3,042	1,365	—	—	76	400	1,336	
500,000 " 999,999	4	227	490	1,018	167	5,849	12,421	6,533	—	—	325	1,513	7,503	
1,000,000 " 4,999,999														
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	58	558	(31)
Totals	29	376	795	1,617	455	10,365	20,775	9,973	4	14	635	3,285	10,950	
1964														
Under \$10,000	3	1	2	3	1	42	61	22	x	x	4	10	22	
\$ 10,000 to \$ 24,999	3													
25,000 " 49,999		10	20	43	10	103	159	96	—	—	22	97	107	
50,000 " 99,999		7	38	82	159	68	1,041	1,637	536	—	—	68	300	624
100,000 " 199,999		9	43	96	192	148	2,061	3,489	1,283	—	—	76	424	1,281
200,000 " 499,999		6	86	178	356	38	944	2,763	1,703	—	—	108	507	1,787
500,000 " 999,999	5	260	549	1,136	212	6,999	13,888	6,968	—	—	384	1,788	7,533	
1,000,000 " 4,999,999														
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	64	625	(47)
Totals	33	438	928	1,889	477	11,190	21,997	10,608	x	x	726	3,751	11,311	

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Under \$10,000													
\$ 10,000 to \$ 24,999	4	5	10	25	4	107	192	81	4	14	10	43	81
25,000 " 49,999	5	14	25	49	31	538	1,015	377	—	—	30	134	390
50,000 " 99,999	11	81	170	325	142	2,156	3,906	1,629	—	—	125	599	1,639
100,000 " 199,999	5	49	99	200	111	1,716	3,242	1,353	—	—	87	438	1,368
200,000 " 499,999													
500,000 " 999,999	4	227	490	1,018	167	5,849	12,421	6,533	—	—	325	1,513	7,503
1,000,000 " 4,999,999													
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	58	558	(31)
Totals	29	376	795	1,617	455	10,365	20,775	9,973	4	14	635	3,285	10,950
1964													
Under \$10,000	3	1	2	3	1	42	61	22	x	x	4	10	22
\$ 10,000 to \$ 24,999	3	10	20	43	10	103	159	96	—	—	22	97	107
25,000 " 49,999	6	34	74	136	46	904	1,388	444	—	—	53	230	478
50,000 " 99,999	10	47	105	214	169	2,198	3,739	1,375	—	—	91	494	1,426
100,000 " 199,999	7	97	202	411	52	1,371	3,707	2,205	—	—	133	673	2,276
200,000 " 499,999													
500,000 " 999,999	4	249	525	1,081	198	6,573	12,944	6,466	—	—	359	1,622	7,050
1,000,000 " 4,999,999													
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	64	625	(47)
Totals	33	438	928	1,889	477	11,190	21,997	10,608	x	x	726	3,751	11,311

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Under 5 employed	6	7	13	28	29	681	1,112	401	4	14	14	66	399
5- 14 employed	14	73	150	298	190	2,745	4,806	1,813	—	—	120	579	1,823
15- 49 "	6	79	165	316	73	1,219	3,102	1,764	—	—	135	648	2,316
50- 99 "													
100-199 "	3	217	466	974	162	5,720	11,756	5,995	—	—	308	1,434	6,444
200-499 "	—	—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	58	558	(31)
Totals	29	376	795	1,617	455	10,365	20,775	9,973	4	14	635	3,285	10,950
1964													
Under 5 employed	7	10	20	47	24	877	1,281	384	x	x	19	88	384
5- 14 employed	15	77	164	294	165	1,836	4,013	2,072	—	—	128	593	2,108
15- 49 "	8	112	242	511	93	2,021	4,530	2,336	—	—	174	905	2,901
50- 99 "													
100-199 "	3	239	502	1,037	196	6,456	12,173	5,816	—	—	341	1,540	5,965
200-499 "													
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	64	625	(47)
Totals	33	438	928	1,889	477	11,190	21,997	10,608	x	x	726	3,751	11,311

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

Type of organization	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Individual ownerships	29	376	795	1,617	455	10,365	20,775	9,973	4	14	577	2,727	10,981
Partnerships													
Incorporated companies													
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	58	558	(31)
Totals	29	376	795	1,617	455	10,365	20,775	9,973	4	14	635	3,285	10,950
1964													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	33	438	928	1,889	477	11,190	21,997	10,608	x	x	662	3,126	11,359
Incorporated companies													
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	64	625	(47)
Totals	33	438	928	1,889	477	11,190	21,997	10,608	x	x	726	3,751	11,311

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
\$'000						
Output						
1. Shipments and other revenue	20,775	21,997	1,859	1,992	22,634	23,989
Inventories—Goods of own manufacture:						
Add closing—Goods in process	-	24	...	...	-	24
Finished goods	1,468	1,539	...	...	1,468	1,539
Deduct opening—Goods in process .....	-	-	...	...	-	-
Finished goods	1,451	1,284	...	...	1,451	1,284
2. Net inventory change	17	279	...	...	17	279
3. Gross output (1 + 2)	20,792	22,276	1,859	1,992	22,651	24,268
Input						
4. Purchases of goods not of own manufacture .....	...	...	855	1,141	855	1,141
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	357	431	357	431
Deduct closing .....	...	...	426	401	426	401
5. Cost of goods sold (not of own manufacture) .....	...	...	786	1,171	786	1,171
6. Materials, supplies, etc.	10,365	11,190	96	118	10,461	11,308
7. Fuel and electricity	455	477	...	...	455	477
8. Gross input (5 + 6 + 7)	10,820	11,667	882	1,289	11,702	12,956
Value added (3 - 8)	9,973	10,608	977	703	10,950	11,311

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000				
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	74	-	-	-	27	7	-	-	101	7	290	-	207	-	496
Ontario	182	-	2	-	116	36	36	1	336	37	835	6	1,071	203	2,116
Manitoba	42	-	5	-	11	1	7	-	65	1	159	13	58	38	268
Saskatchewan															
Alberta															
British Columbia	78	-	-	-	9	-	1	-	88	-	333	-	67	6	405
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	376	-	7	-	163	44	44	11	590	45	1,617	19	1,402	247	3,285
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	94	1	-	-	30	5	1	-	125	6	385	-	233	4	622
Ontario	211	-	2	-	124	37	38	-	375	37	937	6	1,148	206	2,296
Manitoba	45	-	5	-	11	1	4	-	65	1	178	12	70	20	280
Saskatchewan															
Alberta															
British Columbia	87	-	4	1	19	4	2	-	112	5	390	14	134	15	552
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	437	1	11	1	184	47	45	-	677	49	1,889	32	1,585	246	3,751

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

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	325	-	376	1
February	328	-	362	1
March	336	-	379	1
April	355	-	425	1
May	371	-	469	1
June	416	-	481	1
July	398	-	471	1
August	431	-	473	1
September	419	-	461	1
October	379	-	484	1
November	363	-	433	1
December	347	-	399	2
Averages	376	-	437	1
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments	376	-	437	1

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	120	—	187	307	55	362
Ontario	430	—	893	1,322	364	1,687
Manitoba	95	—	113	208	4	212
Saskatchewan						
Alberta	10	—	12	23	—	23
British Columbia	32	—	79	110	7	117
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	686	—	1,284	1,970	431	2,401
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	121	—	243	364	34	397
Ontario	824	—	1,149	1,974	351	2,324
Manitoba	57	—	45	102	3	105
Saskatchewan						
Alberta	94	24	102	219	13	233
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	1,096	24	1,539	2,658	401	3,059

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	—	—	—
(b) Imported	"	—	—	—
Sub-bituminous coal (from Alberta mines only)	"	1,067	1,092	8
Anthracite coal	"	—	—	—
Lignite coal	"	100	200	1
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	179,833	133,587	39
Fuel oil including kerosene or coal oil	"	1,022,726	1,084,592	139
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	7,000	8,022	2
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	127,326	156,886	94
Other fuel .....	...	17	...	15
Electricity purchased	kwh.	13,050,225	16,062,483	181
Steam purchased .....	...	—	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	—	...	—
3. All establishments:				
Total fuel and electricity used .....	...	455	...	477

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
I. Materials used:				
Asbestos ton	3,940 ^r	153	3,546	164
Asphalt Imp. gal.	21,951,984	2,802	23,182,130	2,970
Coal (not for fuel):				
Bituminous - From Canadian Mines ton	227,725	1,511	214,136	1,372
Lignite "	47,000	102	62,981	88
Sand "	371,380	474	370,915	412
Stone "	395,601	577	355,424	456
Talc "	1,664	72	1,896	108
All other materials and components used	...	3,671	...	4,429
2. Containers and other packaging materials and supplies used	...	555	...	543
3. Operating, maintenance and repair supplies used (excluding fuel)	...	443	...	621
4. Amount paid out to others for work done on materials owned by establishments	...	5	...	26
Totals	...	10,365	...	11,190

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Asphalt road emulsions Imp. gal.	20,457,937	4,072	25,349,145	4,807
Asphalt paving mixtures ton	933,082	5,379	871,590	4,253
Asphalt and bituminous coatings "	4,627	1,346	6,077	1,746
All other products	...	10,215	...	11,331
2. Amount received in payment for work done on materials and products owned by others	...	-	...	57
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	...	(237)	...	(198)
Net adjustment for establishments receiving progress payments	...	-	...	-
Total adjusted value of shipments and work done	...	20,775	...	21,997

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 Bitumuls Company Limited	11451 Sherbrooke St. East, Montréal
Cie D'Asphalte Modern Ltée	Ste-Thérèse
Cie D'Asphalte & Pavage Laurentien Ltée	St-Jérôme
Flintkote Company of Canada Limited, The	Ville St-Pierre
Magog Asphalt Reg'd.	Sweetsburg
Milco Inc.	Ville Lafleche
Miron Company Ltd.	Ville St-Michel
Pavages St. Laurent Ltée	Vallée-Jonction
Ontario:	
Asphalt and Bituminous Supplies Ltd.	Bridgeport
Canadian Bitumuls Company Limited	43 Industrial St., Toronto
Dorion and Anderson Asphalt Ltd.	Midland
Flintkote Company of Canada Limited, The	30th. St., Long Branch
Insul-Matic Eastern Limited	1454 Bloor St. W., Toronto
Mixed Asphalt and Contractor's Supplies Ltd.	501 Main St. W., Hamilton
Pounder, T.J. (Ont.) Ltd.	R.R. #3, Brampton
Texas Refining Corp. of Canada Ltd.	25 Industrial St., Toronto
Toro Asphalt Co.	23 Toro Rd., Downsview
Manitoba:	
Insul-Mastic Corporation Limited	1400 Spruce St., Winnipeg
Pounder, T.J. and Co. Ltd.	1474 Wall St., Winnipeg
Saskatchewan:	
Canadian Bitumuls Company Limited	600 Arcola Ave., Regina
Husky-Dominion Briquets	Bienfait
Pounder, T.J. (Sask.) Ltd.	1840 Ontario Ave. N., Saskatoon
Texas Refinery Corp. of Canada Ltd.	Moose Jaw
Alberta:	
Canadian Bitumuls Co. Ltd.	1960 - 7th Ave. S.E., Calgary
Canmore Mines Ltd., The	Canmore
Elsro Asphalt Ltd.	Lloydminster
Guardian Oils Ltd.	34th St. south of 16 A Hwy., Edmonton
Trip-L-Oil Re-refiners	9625 - 102nd Ave., Edmonton
British Columbia:	
Crow's Nest Pass Coal Co. Ltd., The	Michel
Douglas Oil Co. Ltd.	1624 Pandora St., Vancouver
Edoco Healey Technical Products Ltd.	95 East 1st. Ave., Vancouver
Insul-Mastic & Building Products Ltd.	586 West 6th Ave., Vancouver
Winvan Gravel & Supply Ltd.	230 Brunett St., New Westminster

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 its 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, vice-presidents, 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 company-operated 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".

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