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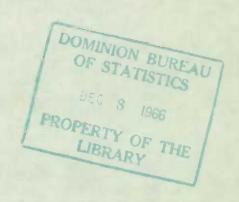
44-209

ANNUAL



LIME MANUFACTURERS 1964

ANNUAL CENSUS
OF MANUFACTURES



Published by Authority of The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

Industry Division

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PUBLICATIONS

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LIME MANUFACTURERS

1964

This report includes statistics for industry 343 - Lime Manufacturers of the Standard Industrial Classification Manual (Catalogue No. 12-501).

Data presented in this report under the heading of Lime Manufacturers reflect the implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

Commodity statistics are shown in Table 13 and subsequent tables. These tables include data from other industries. As an example, the lime shipped by an operator classified in the chemical industry was included in Table 13. The lime producers shipped 1,540,727 tons of lime valued at \$19,409,000 in 1964 compared with 1,450,731 tons valued at \$18,504,000 in the preceding year.

Quicklime shipments totalled 1,249,394 tons of which 1,196,901 tons were sent to chemical or industrial plants and 52,493 tons were used in the building trades and other uses. Hydrated lime shipped to industrial plants amounted to 187,824 tons and there were 103,509 tons shipped to non-industrial users. The tonnage of limestone burned was estimated at 1,821,856 tons.

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

					ufacturing	_	8, 1901 - 0			т	otal activ	ity	
		Pro	duction a				Walus of		Workins	owners			
Year and province	Estab- lish- ments		ted work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value		artners	Emp	loyees	Value
		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			100										
Totals	21	734	1, 676	3, 065	2, 239	1, 785	12, 989	8, 955	х	x	847	3, 598	8, 941
1962													
Totals	22	775	1,736	3, 232	2, 505	2, 153	14,503	9, 792	x	x	949	4, 016	9, 766
1963													
Newfoundland	-	-	-	_	-	_	-	-	-	-	-	-	-
Prince Edward Island	_	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	_	-	-	_	-	-	-	_	-	_	-	-	-
New Brunswick	1	х	х	х	х	x	x	x	-	-	x	х	x
Quebec	5	144	330	641	614	476	3, 138	2,051	x	x	217	995	2,025
Ontario	8	329	711	1,551	1,422	1,206	7,365	4,732	x	X	3 82	1, 832	4.727
Manitoba	3	66	146	241	182	1 18	1,978	1,690	-	-	104	410	1,754
Saskatchewan	-	-	-	-	-	-	_	-	-	-	-	-	-
Alberta	2	х	x	x	х	х	х	х	-	-	х	х	х
British Columbia	2	х	х	х	х	х	x	х	-	-	x	х	x
Yukon and Northwest Territories	_	-	-	_	-	-	-	_	-	-	-	-	-
Totals	21	698	1, 535	3, 118	2,427	2, 211	14, 914	10, 277	x	x	866	4, 058	10,365
1964												TO DO	
Newfoundland	-	-	-		-	-	_	-	-	-		***	win
Prince Edward Island	-	-	-	-	-	-	_	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	1	x	X	х	х	x	х	х	-	-	x	x	X
Quebec	3	X	х	х	х	Х	х	x	-	-	X	х	х
Ontario	8	3 18	714	1,610	1,585	1, 285	8,571	5,684	Х	х	366	1,865	5,674
Manitoba	3	67	145	241	184	139	1,871	1,547	-	-	101	399	1,578
Saskatchewan	-	-	-	ngu .	-	-	-	-	-	-	-	-	-
Alberta	2	х	х	х	х	х	x	x	-	-	X	х	х
British Columbia	-	-	-		_		-	-	-	-	_	-	-
Yukon and Northwest Territories	-	-	-	-	-	-	-	_	ng-	-	-	-	-
Totals	17	619	1, 369	2, 836	2,594	2, 302	15, 419	10, 473	х	x	815	3, 897	10, 478

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

				Mar	ufacturing	activity				T	otal activ	vity	
Size group	Estab- lish- ments		duction a sted work		Cost of	Cost of materials	Value of shipments of goods	Value	Working and pa	owners	Empl	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			\$'000				\$'000		\$*(000
1963						1							
Under \$10,000	} 4	13	23	35	14	7	74	50	х	x	16	42	5(
50,000 '' 99,999 100,000 '' 199,999 200,000 '' 499,999	5	67	149	198	130	96	553	316	-	-	77	246	37
500,000 '' 999,999	6	218	475	95 1	496	642	3,806	2,669	_	_	248	1, 105	2,663
1,000,000 ' 4,999,999	6	400	888	1,934	1,786	1.467	10,481	7,242	-	_	460	2,260	7, 23
5,000,000 and over		-		-	-		_	-	-	-	-	-	-
auxiliary units	1 4 7	* * *	0.0.0			* * *		* * *	* * *		85	4 05	3:
Totals	21	698	1,535	3, 118	2,427	2, 211	14,914	10, 277	х	х	886	4, 058	10, 36
1964													
Under \$10,000	} 4	14	25	37	17	15	79	43	x	x	19	49	44
50,000 " 99,999 100,000 " 199,999	_	- 1	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999 200,000 " 499,999	3	66	147	209	144	94	544	303	_	_	72	241	329
500.000 " 999.999	3	99	212	417	236	3 03	1,815	1,261	-	_	110	485	1, 25
1,000,000 " 4,999,999	7	440	986	2,172	2,197	1,891	12,981	8,865	_	-	508	2,542	8,83
5,000,000 and over			-		_	-		_	_		106	581	1
		144		***	***		100			4 4 9	100	201	A.
Totals	17	619	1,369	2,836	2,594	2, 302	15,419	10,473	х	x	815	3,897	10, 47

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

	133			Mar	ufacturing	activity				7	otal acti	vity	
Size group	Estab- lish- ments		duction a		Cost of	Cost of	Value of shipments of goods	Value		owners artners	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			\$*000				\$*000		\$*0	000
1963					1	1		1					
Jnder \$10,000)												
10,000 to \$ 24,999	3	7	12	18	8	1	31	22	X	X	8	20	21
25,000 " 49,999	3 5	41	77	126	111	83	399	193	-	-	48	149	232
50,000 " 99,999 100,000 " 199,999	1 4	115	264	4 15	241	177	1,459	1,048			123	465	1 074
200,000 ' 499,999	J												1,074
500,000 " 999,999 1,000,000 " 4,999,999	6 3	283 252	612	1,321	769	1,326	6,206	4, 106	-	-	338	1,617	4,094
5,000,000 and over	-3	452	570	1,238	1,299	625	6,819	4,908	_	_	284	1,402	4,904
Head offices, sales offices and											0.00	4.00	
auxiliary units	0.01	* * *	4 6 6			+ 0 5				4 6 4	85	4 05	39
Totals	21	698	1,535	3, 118	2,427	2, 211	14,914	10, 277	X	x	886	4,058	10, 365
1964		7											
Jnder \$10,000	1												
25,000 to \$ 24,999	5	23	43	63	70	45	207	82	х	х	29	77	83
50,000 " 99,999	-	-	-		_	_	_	_	_	_	_	_	_
100,000 '' 199,999	} 4	118	259	433	254	216	1,433	962	-	-	126	485	985
200,000 '' 499,999 500,000 '' 999,999	4	171	3 85	83 1	677	656	4.345	2,970			208	1,037	2,958
1,000,000 " 4,999,999	4	307	683	1,508	1,591	1,384	9,434	6,459	_	_	346	1,718	6,440
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	_	-
auxiliary units	444										106	581	11
Totals	17	619	1, 369	2, 836	2,594	2, 302	15,419	10, 473	×	×	815	3,897	10, 478

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

				Man	ufacturing	activity				Т	otal activ	vity	
Size group	Estab-		duction a ated work		Cost of	Cost of	Value of shipments	Value	Working and pa	owners urtners	Emp	loyees	Value
	ments	Number	Man- hours paid	Wages	elec- tricity	and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		,000			\$'000				\$'000		\$10	00
1963													
Under \$10,000	} 3	7	12	18	8	I	31	22	x	x	8	20	22
25,000 ' 49,999 50,000 ' 99,999	} 5	41	77	126	111	83	399	193	-	-	48	149	232
100,000 '' 199,999	} 4	115	264	415	241	177	1,459	1,048	-	-	123	4 65	1,074
500,000 '' 999,999 1,000,000 '' 4,999,999 5,000,000 and over	6 3	283 252	612 570	1.321	769 1,299	1,326 625	6.206 6.819	4,106 4,908	=	Ξ	338 284	1,617	4,094
Head offices, sales offices and auxiliary units					4 0 4			4			85	405	3
Totals	21	698	1, 535	3, 118	2,427	2,211	14, 914	10, 277	х	x	886	4,058	10, 36
1964													
Jnder \$10,000	} 5	23	42	63	70	45	207	82	x	х	29	77	83
50,000 " 99,999	_	-	-	_	-	-	-	-	-	-	_	_	_
100,000 ' 199,999 200,000 ' 499,999	} 4	118	259	433	255	216	1,433	962	-	-	126	4 85	98
500,000 '' 999,999	4 4	307	3 85 683	831 1,508	677 1,591	656 1,384	4,345 9,434	2,970 6,459	=	_	208 346	1,037	2.95 6.44
lead offices, sales offices and auxiliary units		4 0 0	4 6 4								106	581	1
Totals	17	619	1, 369	2,836	2, 594	2, 302	15,419	10, 473	x	x	815	3, 897	10, 478

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

				Mar	ufacturing	activity					Fotal acti	vity	
Size group	Estab-		oduction ated work		Cost of	Cost of	Value of shipments	77 - 1		owners	Emp	loyees	
	ments	Number	Man- hours paid	Wages	fuel and eiec- 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		\$'0	00
1963													
Under 5 employed	} 8	48	89	144	118	84	430	215	х	х	56	168	254
15 - 49 "	7	207	462	838	505	470	4.413	3,452	-	-	227	94 6	3,474
100-199	6	443	984	2,136	1,803	1,657	10,071	6,610	-	-	518	2,538	6,598
200 - 499 "	_	_	=	_	_	-	_	-	_	-	_	_	_
Head offices, sales offices and													
auxiliary units				* * *	4 4 0	***	4 * 4		***		85	4.05	39
Totals	21	698	1,535	3, 118	2,427	2, 211	14, 914	10, 277	×	ж	886	4,058	10, 365
1964													
Under 5 employed	} 5	23	43	63	70	45	207	82	x	x	29	77	83
15 - 49 "	7	214	470	891	590	538	4,804	3,460	_	-	235	1,013	3,479
100-199 "	} 5	3 82	857	1,881	1,934	1,719	10,608	6,931	-	-	445	2,227	6,904
200 - 499 '4	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employed and over	-	-	-	-	_	_	-	_	_	-	-	-	-
auxiliary units		4 0 0	***		* * 2		4 4 4				106	581	l i
Totals	17	619	1,369	2,836	2,594	2, 302	15,419	10,473	x	x	815	3,897	10,478

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

				Man	ufacturing	activity				7	Total acti	vity	
Type of organization	Estab-		duction ated work		Cost of	Cost of	Value of shipments			owners utners	Empl	oyees	
0.8	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		\$'0	000
1963													
Individual ownerships	3	7	12	18	8	6	46	31	x	x	9	23	30
Partnerships	-	-	-	-	-	_	-	-	-	-	-	_	_
incorporated companies	18	691	1,523	3,100	2,419	2,205	14,868	10,246	-	-	792	3,630	10,295
Co-operatives	_	-	-	_	_	_	-		-	-	-	-	_
Head offices, sales offices and auxiliary units	. 4 4		4 0 +				* * *				85	4 05	39
Totals	21	698	1,535	3, 118	2, 427	2, 211	14, 914	10, 277	х	х	886	4, 058	10, 365
1964													
Individual ownerships	1												
Partnerships	} 17	619	1,369	2,836	2,594	2,302	15,419	10,473	x	х	709	3,316	10,467
Incorporated companies												- 3.5	
Co-operatives	_	_	_	-		_	-	_	-	_	-	-	-
Head offices, sales offices and auxiliary units					4 5 4					***	106	581	11
Totals	17	619	1, 369	2,836	2,594	2,302	15, 419	10, 473	х	×	815	3,897	10, 478

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

	Manufacti activit		Non-manufa activiti		Total activit	
	1963	1964	1963	1964	1963	1964
			\$'000)		
Output						
1. Shipments and other revenue	14,914	15,419	576	374	15,490	15,793
Inventories - Goods of own manufacture:						
Add closing - Goods in process	24	24	***		24	24
Finished goods	164	112		• • •	164	112
Deduct opening - Goods in process	21	24		• • •	21	24
Finished goods	166	161			166	161
2. Net inventory change	1	(49)			1	(49)
3. Gross output (1+2)	14,915	15,370	576	374	15,491	15.744
Input						
1. Purchases of goods not of own manufacture	• • •	0 0 0	429	235	429	235
Inventories - Goods not of own manufacture:						
Add opening	•••		53	82	53	82
Deduct closing	• • •		89	75	89	75
5. Cost of goods sold (not of own manufacture)	• • •		3 93	242	3 93	242
S. Materials, supplies, etc.	2.211	2,302	95	127	2,306	2,429
7. Fuel and electricity	2.427	2,594			2,427	2,594
8. Gross input (5+6+7)	4,638	4,896	488	369	5,126	5,265
Value added (3 - 8)	10, 277	10, 473	88	5	10, 365	10,478

TABLE 8. Employment and Payroll, 1963 and 1964

					Emplo	yees						Salari	es and wa	iges	
Year and		Product related			Admi			les	To	tal	Product		Admin-	Sales	
province	Manufa	cturing	Ot	ther		ffice		bution			related v	vorkers	istra- tive and	and distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	500
1963					numt	er							\$'000		
Newfoundland	_	-		_			_			_		-			_
Prince Edward Island		_	_	-		_	-	-	-		-		-	-	-
Nova Scotia	_				J		-	-	_	_		_			-
New Brunswick	X	-	Х	-	X	12	10	-	X 100	X	X	X	X	-	X
	144		_		45			6	199	18	641	-	263	91	996
Ontario	329	-	_	-	46	7	-	-	375	7	1,551	-	281	_	1, 83
Manitoba	66	-		_	31	7	-	_	97	7	241	_	169	-	41
Saskatchewan	_	-	-	_	-	-	-	-		-	-	-	-	_	-
Alberta	X	-	X	-	X	X	-	-	X	x	X	X	X	-	X
British Columbia	I	-	X	-	X	Х	-	-	Х	X	X	X	X	-	X
Yukon and Northwest Terri- tories	_	_	_	_	_	_	_	-							
													_		_
Totals	698	-	2	-	139	31	10	6	849	37	3, 118	13	835	91	4, 05
.004															
1964									114						
Newfoundland	-	-	-	-	-	-		-	_	-	-	-	-	-	-
Prince Edward Island	-	-		-	-	-	-	-	-	-	-	_	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	х	-	X	-	х	X	X	X	X	х	X	X	X	X	X
Quebec	X		х	-	Х	х	X	X	X	х	х	X	I	х	x
Ontario	318	-	-	-	42	6	-	-	360	6	1,610	-	255	-	I. 86
Manitoba	66	1	-	-	27	7	-	-	93	8	241	-	157	-	39
Saskatchewan	-	-	-	-	-	-	-	-	-	_	_	_	-	-	-
Alberta	X	-	X	-	X	X	x	X	х	х	X	X	x	x	x
British Columbia	-	-	-	-	-	-	-	-	_		-	-	-		-
Yukon and Northwest Terri-															
tories	-	-		-	_		-	-	_	-	-	-	_	-	-
Totals	618	1	3	-	148	30	9	6	778	37	2, 836	13	951	98	3, 89

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

	196	3	196	4
Month	Male	Female	Male	Female
		numl	ber	
stablishments reporting monthly detail (large establishments only):		1	1	
January	700	-	580	-
February	700	-	582	
March	646	-	598	
April	681	-	613	
May		-	655	
June	738	-	642	
July	719	-	635	
August	715	-	643	
September	715	ates	619	
October	693	-	635	
November		-	616	N. V. Table
December	659	-	574	-
Averages	698	574	618	
stablishments reporting annual averages (small establishments only)		_	***	
verage for all establishments	698	-	618	

Note: The total employees reported above represent 243 employees in quarry and 455 employees in kiln in 1963 and 162 employees in quarry and 457 employees in kiln in 1964.

TABLE 10. Inventories, 1964

		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:			book value	\$'000		
Newfoundland						
Prince Edward Island	-		_	4	_	_
	_	-	-	_	-	-
Nova Scotia	_		-		_	-
New Brunswick Quebec	x	X X	x	x	Х	х
Ontario	282	12	X	X	x	X
Manitoba	81	11	52	346	1	348
Saskatchewan	-			109	77	186
Alberta	x	x	х	х	х	x
	_	_	-	_	_	-
British Columbia Yukon and Northwest Territories	_	-	-	_	_	
		_	_	-	-	
Totals	615	24	161	801	82	882
Closing:						
New foundland	_	_	-	_	_	
Prince Edward Island	-		-	_	_	_
Nova Scotia	-	-	_	_		-
New Brunswick	x	x	x	x	x	×
Quebec	X	x	x	x	X	x
Ontario	287	6	42	335	6	341
Manitoba	71	16	10	98	64	162
Saskatchewan	х	х	x	X	x	x
Alberta	ma	_		-		
British Columbia	-				_	
Yukon and Northwest Territorles	_	-	-	-	=	
Totals	567	24	112	703	75	778

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

Description _	1963		1964	
Description	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines ton	880	12	314	4
(b) Imported	89,364	1,127	88,202	1,106
Sub-bituminous coal (from Alberta mines only)	602	5	492	4
Anthracite coal		4	_	_
Lignite coal	9, 026	56	9,526	61
Coke	-		-	_
Gasoline (including gasoline used in cars and trucks) Imp. gal.	194,466	54	185,537	55
Fuel oil including kerosene or coal oil	7, 163, 155	559	7,678,690	602
Wood cord	6,312	42	7, 227	58
Gas:				
(a) Liquefied petroleum gases	2,080		3,492	
(b) Other manufactured gas M cu. ft.	_	_	_	_
(c) Natural gas	513, 911	221	757,375	370
Other fuel		I	***	-
Electricity purchased kwh.	36,508,025	349	36, 076, 879	331
Steam purchased			• • •	_
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity	* * *	_	000	_
3. All establishments:			T AST I	
Total fuel and electricity used		2, 427		2, 594

TABLE 12. Materials and Supplies Used in Manufacturing Activity, 1964

Details on materials and supplies used not collected. See Tables 1-6 for totals.

TABLE 13. Producers' Shipments' of Lime, by All Operators, Showing Purposes for Which Used' or Shipped, 1963

		Shipped from plants in							
Uses	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada		
Quicklime			to	ns of 2,000 pour	nds				
Building trades:							47.004		
Finishing lime		_	2,021	3,238	8, 437	_	13, 690		
Mason's lime to	n 999	5, 912	1,462	326	_	-	8, 699		
\$*00		88	39 705	207		159	1,141		
Agricultureto		1	8	3	=	4	15		
Industrial:									
Uranium plants to		6,305	90,852 1,086		100	_	97, 25°		
Non-ferrous smelters to	n –	7,715	4,143	6,515	3,437	_	21,810		
Iron and steel furnaces to	n 108	12, 246	194,009	11, 290	2, 472	415	220, 540		
Cyanide and flotation milis to		143 2,850	2,228 6,517	181 1,564	2,841	252	2, 603 14, 024		
\$*0	00 -	36	83	33	45	5	203		
Pulp and paper mills to	n 13,340 00 296	126, 120 1, 459	25,758 259	14,772	1,701	10,866	192, 55		
Glass works to	n –	2,513	-	696		-	3, 209		
Sugar refineries to		14	5,784	14	13, 481		19, 39		
\$'0	00 3	-	33		283	-	321		
Tanneriesto		94	727	77	_	_	698		
Fertilizer plantsto	n –	4	2,827	_	-	_	2,83		
Sand-lime brick plants to	n –	4,500	15,520	_	846	ana .	20,86		
Insecticide plants		45	177	_	230	_	230		
\$'0	00 -	-	_	_	4		4		
Other industrial works to	n –	75,548 1,710	488,798 5, 164		1, 200	389	565, 935 6, 905		
Other consumers to	1.	493	8,569	2, 082	10,597	_	21,74		
\$'0		7	99	39	170		31		
Totals, quicklime to		244,370	847, 692	40,767	45,342	12, 081	1,204,824		
Nydrated lime	329	3,637	9,296	639	809	205	14, 91		
Building trades:									
Finishing lime to		1,658	55,076	5, 477	2, 348	-	64.55		
Mason's limeto	1.339	16,091	1,318 11,613	167	40	_	1,540 29,04:		
\$*0		198	207	_	_		430		
Agriculture to		4, 912	1,971	_	100	259	7, 354		
Industrial:		10	20				0,		
Uranium plants to		-	105	-	1,500	-	1,60		
Non-ferrous smelters to		38,419	787	_	26 60	50	39, 31		
\$'0		190 650	12 170	-	1	1	20		
Iron and steel furnaces to	00 -	6	3	_		=	820		
Cyanide and flotation milisto	n –	10,557	670	_	180	92	11, 49:		
Pulp and paper mills to \$*0	n –	6,684	1,770	_	-	145	8, 599		
Sugar refineries to		6, 189	25 1,190	8,435		2	15, 86		
\$'0	00 1	87	13	97	-	-	198		
Tanneriesto	00 -	835	3,279 49	_	_	_	4,114		
Fertilizer plants		505	_	_	=	_	599		
Sand-lime brick plants to	n –	5, 149	274	_	460	_	5,88		
Insecticide plants to		65 86	581	200	8		7° 86'		
\$'0	00 -	1	11	6	_	_	1"		
Other Industrial works to	n 421 00 10	15,510 112	22, 382 374	_	730 12	334	39, 37		
Other consumers to		6, 586	5,385	_	4, 106	_	16.40		
\$'0		38	82	-	70	-	198		
Totals, hydrated lime to \$'0		113,831	105,253	14, 112	9, 484	880	245, 90		
Grand totals to		950 358, 201	2,139 952,945	269 54,879	161 54,826	17 12,961	3,58		
\$'0		4,586	11,434	909	971	221	1,450,73		

Shipments include amounts used in producers' own works.

² Not necessarily consumed in provinces where produced; includes by-product lime.

Note: 1. Of the total quantity of 1,450,731 tons of lime produced 562,745 tons were consumed by the producers themselves. Of this latter amount, 13,076 tons of hydrated lime and 425,601 tons of quicklime were consumed in Ontario: 74,344 tons of quicklime and 5,837 tons of hydrated lime in Quebec: and the balance. 35,034 tons of quicklime and 8,863 tons of hydrated lime, in other provinces.

2. The totals in the above table include lime recovered by all producers including operators classified as establishments in the Lime Manufacturers Industry as well as other operators which have been reclassified to other industries as a result of combinations in line with the New Establishment Concept. On this account, also, value figures in the above table are higher than the value figures shown under the heading of "Value of shipments of goods of own manufacture". See Tables 1 to 12. The latter refer only to operators classified as establishments to the Lime Manufacturers Industry in accordance with the new S.1.C.

TABLE 14. Producers' Shipments' of Lime, by All Operators, showing Purposes for which Used' or Shipped, 1964

77		Shipped from plants in							
Uses		New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada	
Quicklime		tons of 2,000 pounds							
Building trades:									
Finishing lime	\$'000	=	10		3,165	8, 391 142		11.566	
Mason's lime	ton	976	900	1,774	528	-	-	4,178	
Agriculture	ton	-	58	12,089	_			93 12, 147	
	\$'000	-	1	138			-	139	
Road Stabilization	**000	_	= =	= =	4,831	200	_	5,031	
ndustrial: Uranium plants	ton		2, 405	43.040					
Non-ferrous smelters	\$'000	_	15	464	0.045		_	45, 44	
	\$'000		4,639	20,741	6,045	3, 338 57	_	34, 76 41	
Iron and steel furnaces	\$'000	304	17, 423 210	242,789 2,772	10,333	2,997	_	273, 84 3, 18	
Cyanide and flotation mills	ton		2,504	6,225	1.743	3,443		13,91	
Pulp and paper mills	ton	960	35 132, 645	24, 675	12, 137	4,596	=	175,01	
Glass works	\$'000 ton	24	1,542 3,388	278	155 954	78	_	2,07 4.34	
Sugar refineries	\$'000 ton	131	21 984	7,852	20	14,932	-	23.89	
Tanneries	\$*000	4	12 92	44 762	- 88	329	= =	38	
Fertilizer plants	\$1000	_	3	9	2		-	96	
	\$'000	-	2	8,300 94	= =	150	= =	8,45 9	
Sand-lime brick plants	61000	-	4,315	18,967 218	=	504	_	23,78 26	
Water and sewage treatment	\$'000	-		506		10.495 168		11,00	
Other industrial works	s'000	_	52, 064 885	528.009 5,988	1,049	350	_	581, 47	
Other consumers	ton		14	19,002	-	555	_	6,90 19,57	
Totals, quickline		2,371	221, 443	219 934, 731	40, 873	10 49, 976	_	1 240 2	
Hydrated lime	\$,000	66	2, 838	10, 579	630	906	_	1, 249, 39 15, 02	
Building trades:									
Finishing lime	ton	=	4,671	60.608	4, 317	2, 394	-	71,99	
Mason's lime	ton	1, 254	13,618	1,591	133	41 420	_	1.78 26,69	
griculture	\$'000 ton	28	179 3,846	215 546	_	7	_	4:	
	\$'000	-	3,846	12	=	400	_	4, 7	
Road stabilization	ton	-	30		_	-	-	:	
industrial:			1 1 / / /						
Uranium plants	\$1000		130		_	1,500	_	1,6	
Non-ferrous smelters	ton \$'000		68, 085	-		73 275	_	68.3	
Iron and steel furnaces	ton	-	1,250	6,914		5	= =	6, 1	
Cyanide and flotation mills	ton	=	4,651	113	_	277	_	4,9	
Pulp and paper mills	\$'000	_	66 13, 416	2,341	-	5 100	-	15,8	
Sugar refineries	\$'000	48	225 7, 580	3,589	_	2	_	20	
Tanneries	\$'000	1	102	63	11.570	=	_	22,78	
	\$'000	_	942	2, 121	_	=	-	3,06	
Fertilizer plants	\$'000	83	5.355	_	=	200	-	5,63	
Sand-lime brick plants	ton		6, 743	_	_	690	-	7,43	
Water and sewage treatment	ton \$'000	889	626	-	436	2, 089	_	4,0	
Other industrial works	ton	328 328	12, 484	27.543	14	36 240	=	40,59	
Other consumers		7	89 4, 184	476	_	1.145	_	5, 3;	
	\$'000	- 020	24	-	_	19	_		
Totals, hydrated lime	*'000	2, 602 60	147, 611 1, 285	115,067 2.548	16, 323 287	9. 730 209	=	291.33 4.38	
Grand totals	ton	4,973	369.054	1.049.798	57, 196	59, 706	-1011-	1,540,72	
	\$'000	126	4, 123	13, 128	917	1.116	- /	19.4	

 $^{^1}$ Shipments include amounts used in producers' own works. 2 Not necessarily consumed in provinces where produced; includes by-product lime.

Note: Of the total quantity of 1,540,727 tons of lime produced 543,095 tons were consumed by the producers themselves. Of this latter amount 17,479 tons of hydrated lime and 465,870 of quicklime were consumed in Ontario; 45,956 tons of quickline and 6,988 tons of hydrated lime in Quebec; and the balance, 14,932 tons of quicklime and 11,870 tons of hydrated lime in other provinces.

TABLE 15. Producers' Shipments of Lime, 1955 - 64

	shipped	Used by	Total		
Year	for sale	producers	Quantity	Value	
			\$*000		
1955 1956 1957 1958	832,874 822,812 839,979 1,077,763	498, 244 472, 887 538, 638 518, 659	1,331,118 1,295,699 1,378,617 1,596,422	15,811 15,668 16,679 19,466	
959	1,122,965 979,725 879,057 848,196 887,986 997,632	562,760 549,843 536,233 576,263 562,745 543,095	1,685,725 1,529,568 1,415,290 1,424,459 1,450,731 1,540,727	21, 298 19, 302 19, 217 17, 647 18, 504 19, 409	

See Notes Table 13 and text.

TABLE 16. Producers' Shipments of Lime, by Months, 1963 and 1964

Month	1963	1964	Month	1963	1964
	toı	18		ton	s
January February March April May June July	105, 486 110, 722 123, 064 125, 460 135, 154 117, 582 126, 205	119,066 116,339 134,484 119,493 115,125 128,422 125,671	August	118,160 116,503 136,468 117,621 118,306	118,639 131,599 148,178 137,462 146,249

See Notes Table 13 and text.

TABLE 17. Lime Shipped or Used for Chemical and Other Purposes, 1955-64

			ed for chemical a purposes	und	Lime shipped or used for building or other non-industrial purposes			
1 COL	Quickli	me	Hydrated	llime	Quickli	me	Hydrate	ed lime
	short tons	\$'000	short tons	\$'000	short tons	\$'000	short tons	\$'000
1955	904,600 861,784 1,010,841 1,194,054	10,756 10,484 11,952 14,289	216, 582 208, 449 178, 806 204, 595	1.425 1.390 1,318 1,498	91,039 85,532 63,497 64,035	1.466 1.369 1.097 1.083	118,897 139,934 125,473 133,738	2,164 2,425 2,312 2,596
1959 1960 1961 1962 1963 1964	1,296,807 1,168,180 1,085,090 1,110,853 1,159,547 1,196,901	16, 171 14, 764 14, 700 13, 069 14, 156 18, 640	194,011 196,628 161,515 133,623 128,544 187,824	1,488 1,429 1,440 1,366 1,329 2,110	62,859 45,417 57,264 70,205 45,277 52,493	1,085 846 931 1,080 759 769	132,048 119,343 111,421 109,778 117,363 103,509	2, 560 2, 264 2, 146 2, 132 2, 260 2, 279

See Notes Table 13 and text.

TABLE 18. Imports and Exports of Lime, 1963 and 1964

	1963		1964	
	tons	\$'000	tons	\$*000
Imports				
From: United States United Kingdom France	44,110 163 18	709 3 1	20,551 152 88	476 2 2
Totals	44, 291	714	20, 791	480
Exports				
Co:				
Pakistan	-	_	1	
Bermuda	80	3	100 705	1 171
United States	95,690	1,114	102,725	1,111
Ghana	2 212	-	9.3	22
British Guiana	2, 310	24	3,500	33
Netherlands Antilles	4		4	
Totals	98, 084	1,141	106, 343	1,208

TABLE 19. Lime Kiln Capacities, 1960 - 64

		Total kilns Kilns in use during the year				
Year	Numb	per	Total capacity	Number		Total capacity
	Stack	Rotary	Tons per 24 hours	Stack	Rotary	Tons per 24 hours
1960	119 113 96 96 81	29 29 30 30 28	8,408 8,245 8,429 8,599 8,154	105 106 83 84 65	24 25 26 27 22	7, 190 7, 440 7, 196 7, 729 6, 818

¹ Includes lime kilns of other industries.

TABLE 20. World Production of Quicklime, Hydrated Lime, and Dead-burned Dolomite, Sold or Used

Country	1960	1961	1962	1963	1964
	thou				
North America:					
Canada	1,530	1,415	1.424	1, 451	1, 491
Costa Rica ²	4	4	4	- 6	7, 431
Honduras	12	11	3	3	3
Nicaragua	27	28	29	312	29
Puerto Rico	1	1	1	4	18
United States (sold or used by producers)	12, 934	13, 249	13, 753	14, 521	16,089
West Indies:					
Barbados	3	3	2	3	3
Dominican Republic	11 8	83	8	,	3
Haiti ²	180	180	180	180	180
South America:	4 4000				
Argentina	1,1002	I, 100 ²	1 000	3	3
Columbia	1, 179	1.410	1,308	1,332	3
Columbia Paraguay	68	90	94	107	3
Peru	15 85	15 77	16	14	20
Uruguay ²	36	36	88	94	102
Venezuela	43	38	49	53	77
Europe:					
Austria	747	784	740	750	0.00
Belgium	2, 125	2, 120	2, 245	759 2, 227	802 2,533
Bulgaria	474	698	766	830	2, 533 913
Czechoslovakia	2.543	2,598	2,611	2, 485	2,587
Denmark	146	162	162	167	176
Finland	236	245	246	229	265
France	3, 224	3.248	3,078	2,919	3,056
Germany;	0.000				
West	3, 363	3, 116	3,686	3,811	3,900
Hungary	10,7024	10,939	10, 690 685	10,775	11,921
Ireland	32	32	83	39	807 47
Luxembourg	39	13	0.0		
Malta	44	45	39	18	3 ***
Norway	_	_	3	3 20	121
Poland	2,048	2,071	2, 186	2,209	2,326
Rumania	658	724	746	806	830
Spain	126	286	203	234	3
Sweden	1,033	3	798	949	3
Switzerland	185	205	212	203	221
U.S.S.R. United Kingdom	17, 790	18,955	18,237	17, 651	19, 300
Yugoslavia	767	800	847	947	999
Asia; Cyprus		_	50	65	,
Indonesia	119	3	3	3	3
Japan	3	3	1, 291	1,527	1,798
Kuwait	-	-	_	-	13
Lebanon	82	8	10 ²	39	29
Mongolia ²	-	-	23	28	33
Philippines	21	28	472	35	86
Ryuku Islands	3 1	3	1	13	,
Syrian Arab Republic	3	3	3	7	3
Taiwan	49	84	83	88	101

See footnotes at end of Table.

TABLE 20. World Production of Quicklime, Hydrated Lime, and Dead-burned Dolomite, Sold or Used - Concluded

Country ¹	1960	1961	1962	1963	1964
		ti	nousand short tons		
Africa:	1	1		1	
Algeria	18	3	3	3	3
Cape Verde Islands. Ethiopia® (including Erltrea)	1	2	5	5	1
Ethiopia® (including Erltrea)	3	5	6	5	7
Kenya.	_	-	3	3	4
Libya ²	17	18	19	3	3
Mozambique	12	3	3	3	3
Mozambique South Africa, Republic of (sales) South-West Africa	852	758	726	719	771
South-West Africa	3	4	3	3	4
Tanzania (sales and exports)	4	4	3	1	2
Tunisia	139	133	142	164	193
Uganda	17	16	18	12	3
Oceania:					
Australia*	125	124	139	3	3
Fiji Islands	3	4	3	6	4

Lime is also produced in Chile, China, Republic of the Congo, Ecuador, Greece, Guatemala, India, Iran, Israei, Italy, Republic of Korea, Mexico, Morocco, New Zealand, Paklstan. Federation of Rhodesia and Nyasaland, Rwanda, and Viet-Nam, but production data are not available. In addition, Bermuda, El Salvador, Guadeloupe, Netherlands Antilles, Sarawak and St. Thomas and Principe Islands produce less than 1,000 tons.

Pestimate.

Data not available.

Including Saar, beginning 1960.

Negligible.

Year ended September 10 of year stated.

Source: The "Minerals Yearbook" published by the United States Bureau of Mines.

Directory of Firms which Operated Lime Kilns, 1964

Includes firms classified to other industries, i.e. chemicals, construction, etc.

Name	Head office address	Location of plant
New Brunswick:		
Bathurst Power & Paper Co. Ltd	Bathurst Box 954, Saint John	Bathurst Saint John
uebec:		
Aluminium Company of Canada, Limited Bousquet, Adrien¹ Dominion Limited¹ Domtar Chemicals Ltd. (Gypsum Lime Division)¹ Raffinerie de Sucre de Québec Shawinigan Chemicals Limited	Box 6090, Montreal 3 St-Dominique de Bagot Lime Ridge 1155 Dorchester Blvd, W., Montreal St-Hilaire Est 600 Dorchester St. W., Montreal	Wakefield St-Dominique Lime Ridge Joliette St-Hilaire Shawinigan Falls
ntarlo:		
Bonnechere Lime Limited	Carleton Place 1155 Dorchester Blvd. W., Montreal 2, Quebec	Grattan Twp. Anderdon Twp.
Canada & Dominion Sugar Co. Ltd. Canadian Gypsum Company, Limited ¹ Carleton Lime Products Co. ¹ Chemical Lime Limited ¹	Chatham Box 4034, Postal Station, A., Toronto Box 100, Carleton Place Box 100, Ingersoil	Chatham Guelph Twp. Carleton Place Ingersoll
Cyanamid of Canada Limited	Niagara Falls	Niagara Falls Ingersoll
Dominion Magnesium Limited Domtar Chemicals Ltd. (Gypsum Lime Division) ¹ Indusmin Ltd. ¹ Rockwood Lime Company Ltd. ¹	Haley 1155 Dorchester Bivd. W., Montreal 7 King St. E., Toronto Rockwood	Haley Beachville and Hespeler Coboconk Rockwood
lanitoba:		
Building Products & Coal Co. Ltd. ¹ Domtar Construction Materials Ltd. (Gypsum Division) ¹ Manitoba Sugar Co. Ltd. Selkirk Sllica Co. Ltd. ¹ Western Gypsum Products Ltd. ²	111 Christie St., Winnipeg Box 506, Station F., Toronto 5, Ontario Box 608, Winnipeg 1 491 Portage Ave., Winnipeg 2 Clarkson, Ontario	Inwood Winnipeg Fort Garry Spearhili and Stonewall Winnipeg
Iberta:		
Canadian Sugar Pactories Limited Loder's Lime (Alberta) Limited (Lime Division) ¹ Summit Lime Works Limited ¹	306-10th St. S., Lethbridge Box 1200 Station A, Calgary Box 700, Lethbridge	Raymond, Picture Butte and Taber Kananaskis Lethbridge
aritish Columbia:		
Crown Zellerbach Canada Limited,	Box 2079, Vancouver 3,	Ocean Falls and Elk Falls

¹ These establishments comprise the industry "Lime Manufacturers" for statistical purposes.
² Purchases quicklime, makes hydrated lime.

Note: Firms in the above directory include all producers of lime including operators classified as establishments in the Lime Manufacturers Industry as well as other operators which have been reclassified to other industries as a result of combinations in line with the New Establishment Concept.

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 hook 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".

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