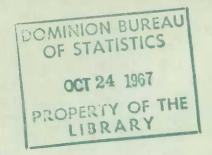
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ANNUAL

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LIME MANUFACTURERS 1965

ANNUAL CENSUS
OF MANUFACTURES

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PUBLICATIONS

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LIME MANUFACTURERS

1965

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 1,620,404 tons of lime valued at \$20,134,000 in 1965 compared with 1,540,727 tons valued at \$19,409,000 in the preceding year.

Quicklime shipments totalled 1,340,386 tons of which 1,237,725 tons were sent to chemical or industrial plants and 102,661 tons were used in the building trades and other uses. Hydrated lime shipped to industrial plants amounted to 168,501 tons and there were 111,517 tons shipped to non-industrial users. The tonnage of limestone burned was estimated at 1,540,436 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, 1961-65

				Man	ufacturing	activity				Т	otal activ	vity	
Year	Estab-		duction a sted work		Cost of	Cost of	Value of shipments	Value		owners artners	Emp	loyees	Value
province	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				\$1000		\$'0	00
196 i													
Totals	21	734	1,676	3, 065	2, 239	1, 785	12, 989	8, 955	X	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													
Totals	21	698	1 505	2 110	9 497	2 211	14 014	10. 955	x	x	000	4 000	10.200
Interes	21	098	1,535	3, 118	2, 427	2, 211	14, 914	10,277	_ ^	ı î	886	4, 058	10, 365
1964													
Newfoundland	-	-	-	-	-	-	-	_	-	-	-	-	-
Prince Edward Island	-	-	-	_	-	-	-	-	-	-	-	_	_
Nova Scotia	-	_	-	-		-	-	-	-	-		-	-
New Brunswick	1	x	х	x	х	х	x	х	_	-	х	x	х
Quebec	3	x	х	х	х	х	x	х	_	-	x	х	х
Ontarlo	8	318	714	1,610	1,585	1, 285	8,571	5,684	х	x	366	1,865	5,674
Manitoba	3	67	145	241	184	139	1,871	1,547	-	-	101	399	1,578
Saskatchewan	-	_		-	-	-	-	-	-	-	-	-	-
Alberta	2	х	х	х	X	х	x	x	-	-	Х	х	x
British Columbia	-	-	_	-	-	-	-	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	_	-	-	_	-	-	-	-	-	-	-
Totals	17	619	1,369	2, 836	2, 594	2, 302	15, 419	10,473	х	X	815	3,897	10, 478
1965													
Newfoundland	-	_	_	-	-	-		-		_	_	_	-
Prince Edward Island	-	_	-	_	_	_	_	-	-	-	-		-
Nova Scotia		_	-	_	-	-	_	-	-	-	-	_	-
New Brunswick	i	x	х	х	х	х	х	x	_	_	x	х	x
Quebec	2	x	х	x	x	X	х	x	_	_	x	х	х
Ontario	6	331	768	1,776	1,830	1,516	9, 268	5,920	x	х	373	2.016	5.887
Manitoba	3	75	165	262	207	175	1,997	1,612		_	117	439	1,630
Saskatchewan	-	-	_	-	_	_	-	_	-	-	-	_	-
Alberta	2	x	х	x	х	х	x	x	-	_	x	х	х
British Columbia	_	_	-	-	_	_	_	_	_	-	_	_	_
Yukon and Northwest Territories	_	-	AMIL		_	_		-	_	97	-	-	_
Totals	14	644	1, 438	3, 078	2, 862	2, 545	16, 229	10, 791	X	x	800	1, 934	10, 774

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

				Man	ufacturing	activity				T	otal activ	ity	
Size group	Estab- lish- ments		duction a ited work		Cost of	Cost of	Value of shipments of goods	Value	Working and pa	owners	Empi	oyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		,000			\$'000				\$'000		\$10	000
1964					1			1					
Under \$10,000)												
\$ 10,000 to \$ 24,999	} 4	14	25	37	17	15	79	43	x	x	19	49	4.4
25,000 ' 49,999 50,000 ' 99,999	J _	_	_		_	_	_		_				_
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	303	1,815	1,261	_	_	110	485	1,256
1,000,000 " 4,999,999 5,000,000 and over	7	440	986	2, 172	2,197	1,891	12,981	8, 865	-	_	508	2,542	8,838
Head offices, sales offices and	_		_		_		_	_			_		
auxiliary units		* * 0	* * *			* * *	***			* * *	106	581	11
Totals	17	619	1, 369	2,836	2,594	2, 302	15, 419	10, 473	X	х	815	3, 897	10, 478
1965						- 1							
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999] -	_	-	_	_	-	-	restra	-		apple .	_	
50,000 ' 99,999 100,000 ' 199,999	4	67	151	208	96	87	483	305	х	х	73	240	306
200,000 ' 499,999 500,000 ' 999,999	4	153	309	669	448	432	2,978	2, 116	_	- mate	175	798	2, 10:
1,000,000 '4,999,999 5,000,000 and over	6	424	978	2, 201	2, 318	2,026	12, 768	8,370	_		478	2,505	8, 32
Head offices, sales offices and													
auxiliary units					4 9 9						74	391	4:
Totals	14	644	1,438	3,078	2, 862	2,545	16, 229	10, 791	X	X	800	3,934	10, 77

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

				Man	ufacturing	activity				Т	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	00
1964								1					
Under \$10,000	} 5	23	43	63	70	45	207	82	х	х	29	77	83
50,000 1 99,999	-	_	-	_	-	-	-	-	_	_	_	_	-
200,000 ** 499,999	4	118	259	433	254	216	1,433	962	-	-	126	485	985
500,000 " 999,999	4 4	171 307	385 683	831 1,508	677 1,591	656 1,384	4, 345 9, 434 —	2,970 6,459		=	208 346	1,037 1,718	2, 958 6, 440
Head offices, sales offices and auxiliary units											106	581	11
Totals	17	619	1,369	2, 836	2, 594	2, 302	15, 419	10, 473	x	х	815	3,897	10, 478
1965													
Jnder \$10,000) -	-			-	-		-	-	-	-	nate	-
25,000 49,999 50,000 99,999 100,000 199,999	} 4	67	151	208	96	87	483	305	х	х	73	240	306
200,000 " 499,999 500,000 " 999,999	} 4	153	309	669	448	432	2,978	2,116	-	_	175	798	2,102
1,000,000 " 4,999,999	6	424	978	2, 201	2,318	2,026	12,768	8,370	-	_	478	2,505	8,329
5,000,000 and over	-	-	-	4 5 9			-	-	-	-	74	391	4:
Totals	14	644	1, 438	3.078	2,862	2,545	16, 229	10.791	X	x	800	3,934	10, 774

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

				Man	ufacturing	activity				Т	otal activ	vity	
Size group	Estab-		duction a ated work		Cost of	Cost of	Value of shipments	Value		owners	Empl	loyees	Value
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$'(000
1964													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999	} 5	23	42	63	70	45	207	82	х	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	485	985
500,000 ' 999,999 1,000,000 ' 4,999,999	4	171	385 683	831 1,508	1,591	656	4, 345 9, 434	2,970 6,459	_	_	208 346	1,037	2,958 6,440
5,000,000 and over	-	-	-	-	-	- 1	-	-			-	-	-
auxiliary units											106	581	11
Totals	17	619	1, 369	2,836	2,594	2,302	15,419	10, 473	x	X	815	3,897	10, 478
1965													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999) -	-	-		-	-	-	-	-	-	-	-	-
50,000 '' 99,999 100,000 '' 199,999	4	67	151	208	96	87	483	305	x	х	73	241	306
200 000 '' 499 999 500,000 '' 999 999	} 5	223	464	1,008	660	1,062	4,831	3,120	-	-	255	1, 190	3, 096
1,000,000 ' 4,999,999	5	354	822	1,861	2, 106	1,396	10,914	7,366	_	_	398	2, 114	7,330
5,000,000 and over											74	391	42
		1		444		4 4 4		* * *		***			
Totals	14	644	1,438	3,078	2,862	2,545	16, 229	10,791	X	X	800	3, 934	10,774

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

				Mai	nufacturing	activity				7	Fotal acti	vity	
Size group	Estab-		oduction ated work		Cost of	Cost of	Value of shipments	Value		owners artners	Emp	loyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000		h	\$*000				\$'000		\$10	000
1964										ni ni			
Under 5 employed	} 5	23	43	63	70	45	207	82	x	х	29	77	83
15 - 49 ''	7	214	470	891	590	538	4, 604	3,460	-	-	235	1, 013	3, 479
50 - 99 "	5	382	857	1,881	1,934	1,719	10,698	6, 931	-		445	2, 227	6,904
200 - 499 ''	-	_	_	-	-	-	-	_	-	-	-	-	-
500 employed and over Head offices, sales offices and	-	_	-	-	-	-	_	_	_	_	_	_	-
auxiliary units											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
1965													
Under 5 employed	_		_	_		_		_		_	_	_	-
5 - 14 employed	} 9	234	512	1,007	741	526	5,148	3,896	x	x	251	1, 114	3, 890
50- 99	5	410	925	2,071	0 101	2,019	11,081	6, 895			475	2, 430	6, 841
100 - 199 '')	410			2,121		11,001	0,090				2, 930	0, 04
200-499 ''500 employed and over	I I			_	-	_	-	_	_	_	_	_	
Head offices, sales offices and													
auxlifary units		***	***	2 0 0	0.01		* * *		* * =		74	391	4:
Totals	14	644	1,438	3, 078	2, 862	2,	16, 229	10, 791	X	X	800	3,934	10, 77

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

				Man	ufacturing	activity				- 7	rotal acti	vity	
Type of organization	Estab-		duction a ated work		Cost of	Cost of	Value of shipments			owners	Empl	oyees	Volue
	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
1964													
Individual ownerships													
Partnerships	17	619	1.369	2,836	2,594	2,302	15.419	10, 473	х	х	709	3,316	10.467
Incorporated companies]												
Co-operatives	_	_	-	_		_	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units					***		• • •	* * *			106	581	1 1
Totals	17	619	1,369	2,836	2,594	2,302	15,419	10,473	х	x	815	3, 897	10.478
1965						d						e v	
Individual ownerships	t tur					10.0							
Partnerships	14	644	1,438	3,078	2,862	2.545	16.229	10,791	Х	х	726	3,544	10.732
Incorporated companies	J												
Co-operatives	_	-	_	_	-	-	-	-	-	-	_	_	-
Head offices, sales offices and auxiliary units											74	391	42
Totals	14	644	1,438	3,078	2, 862	2,545	16,229	10,791	x	x	800	3,934	10,774

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacti activit		Non-manufa activiti		Total activit	
	1964	1965	1964	1965	1964	1965
			\$'000)		
Output						
. Shipments and other revenue	15,419	16.229	374	759	15.793	16.988
Inventories - Goods of own manufacture:						
Add closing - Goods in process	24	28		* # *	24	28
Finished goods	112	224	• • =		112	224
Deduct opening - Goods in process	24	26			24	26
Finished goods	161	256	***		161	256
2. Net inventory change	(49)	(30)		• • •	(49)	(30
3. Gross output (1+2)	15,370	16, 199	374	759	15,744	16,958
Input	31-11					
. Purchases of goods not of own manufacture			235	639	235	639
Inventories - Goods not of own manufacture:						
Add opening			82	75	82	75
Deduct closing			75	57	75	57
Cost of goods sold (not of own manufacture)			242	657	242	657
Materials, supplies, etc.	2,302	2,545	127	119	2.429	2,664
7. Fuel and electricity	2.594	2.862		0 0 0	2,594	2, 862
3. Gross input (5 + 6 + 7)	4.896	5,407	369	776	5. 265	6, 183
Value added (3 - 8)	10, 473	10,792	5	(17)	10.478	10, 774

TABLE 8. Employment and Payroll, 1964 and 1965

					Emplo	yees						Salari	es and wa	iges	
Year and province		Product related	workers		Adm trat		Sal aı distril	nd	То	tal	Producti related w		Admin- istra-	Sales	Man a
province	Manufa	cturing	0(her	LL III	, iiicc	GIDINI	Duezoti					tive	distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
					numb	per							\$'000		
1964													100		
Newfoundland	-	-	-	-	-		-	-	-	-		-	-	-	_
Prince Edward Island	_	-	-	-	-	-	-	_	-	-	-	-	-	-	
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	_	_		
New Brunswick	x	-	Х	-	Х	Х	Х	X	X	Х	X	Х	X	X	X
Quebec	X	-	Х		X	Х	Х	X	X	X	X	х	X	Х	X
Ontario	318	-	_	-	42	6	-	-	360	6	1.610	-	255	***	1.86
Manitoba	66	i	-	-	27	7	-	-	93	8	241		157	-	39
Saskatchewan	-	-	-	-	-	_	-	-	-	-	-	_	_	-	-
Alberta	X	-	Х	-	X	X	Х	X	X	X	X	X	Х	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
1965															
Newfoundland	_		_				_	_	_	-	_	_		_	_
Prince Edward Island		_	-100	_	_	_	_		_	_	_	_	_	_	_
Nova Scotia	_		_	_	_		_	_	_	_	_	_	_	-	_
New Brunswick	x	_	_	_	X	X	x	x	X	X	X	X	X	Х	x
Quebec	X	_		-	X	X	x	X	x	x	X	x	x	x	х
Ontario	331	-			38	4	_	_	369	4	1.776	_	240	-	2,01
Manitoba	74	1	_		36	6	_	-	110	7	262	_	177	_	43
Saskatchewan	_	-	_	_	_	-	_	_	_	_	_			-	_
Alberta	x		_	_	x	x	x	X	X	x	x	x	x	x	х
British Columbia		-	_	_	_	-	_	_	_	-		-	_	_	_
Yukon and Northwest Terri-	- 1														
tories	_	-		-	-	-	-	-	-	-	-	-	-	-	-
Totals	643	1	_	_	118	20	13	5	774	26	3,078	-	749	107	3, 93

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

	196	4	196	5
Month	Male	Female	Male	Female
		numb	er	
tablishments reporting monthly detail (large establishments only):	1		1	
January	580	-	574	
February	582	1	595	
March	598	1	603	
Aprii	613	1	643	
lay	655	1	679	
une	642	1	692	
uly	635	1	681	
ugust	643	1	691	
eptember	619	1	650	
	635	1	657	
ctober	616		634	
November December	574	-	603	
Averages	618	1	643	
ablishments reporting annual averages (small establishments only)		-	0 0 4	
erage for ali establishments	618	1	643	

Note: The total employees reported above represent 162 employees in quarry and 457 employees in kiln in 1964 and 171 employees in quarry and 473 employees in kiln in 1965.

TABLE 10. Inventories, 1965

The second second		Manu	facti	uring		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process		inished goods of own manufacture	Total	Products or materials purchased for resale	Total inventories
Opening:			1	book value	\$'000		
Newfoundland	harman and						
Prince Edward Island	0.00					-	
Nova Scotia				-	_	_	_
New Brunswick	x	Y		x		_	
Quebec	X	^		X Y	X	X	X
Ontario	227		6	101	335	6	341
Manitoba	71	1	8	11	100	64	164
Saskatchewan							201
Alberta	x	x		x	x -	x -	· ·
British Columbia	_						^
Yukon and Northwest Territories				-	_		
Totals	442	2	26	256	724	75	799
Closing:							
Newfoundland		-		_	_		
Prince Edward Island			-				
Nova Scotia	_	I	-	-		_	_
New Brunswick	x	x		х	x	_	x
Quebec	х		-	x	x	_	x
Ontario	229		5	102	336	4	339
Manitoba	83	1	9	7	109	53	162
Saskatchewan			-	-	_		
Alberta	х	x		х	x	х	X
British Columbia	-	-	-	-	-		-
Yukon and Northwest Territories			-		-	_	-
Totals	442	2	8	224	693	57	75.0

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
Description	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coai:				
(a) From Canadian mines ton	314	4	244	3
(b) Imported	88,202	1.106	95.312	1,237
Sub-bituminous coal (from Alberta mines only)	492	4	-	
Anthracite coal	-	-	- !	_
Lignite coal	9, 526	61	8.854	56
Coke	_	_	_	-
Gasoline (including gasoline used in cars and trucks) Imp. g.	al. 185,537	55	171.462	48
Fuel oil including kerosene or coal oil	7,678,690	602	7,491,913	611
Wood	7.227	58	5,439	49
Gas:				
(a) Liquefied petroleum gases 1mp. g.	al. 3.492	1	4.145	1
(b) Other manufactured gas M cu.	ft. –	_		_
(c) Natural gas	757.375	370	991,638	500
Other fuel		_		_
Electricity purchased kwh.		331	39, 497, 178	356
Steam purchased				_
2. Small establishments not reporting commadity details				
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		_	* * *	
3. All establishments:				
Total fuel and electricity used		2,594		2,862

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, 1964



		Shipped from plants in						
Uses		New Brunswick	Quebec	Ontario	Manitoba	Alberta	Canada	
Quicklime				tons of 2,0	00 pounds			
Building trades:								
Finishing time	S. GRIII	-	10		3,165	8, 391 142	11,56	
Mason's lime	\$'000	976 31	900	1.774	528	= =	4, 17	
Agriculture	ton \$'000	_	58	12,089	_	_	12,14	
Road stabilization	ton	-	1	-	4,831	200	5,03	
Industrial:	\$'000		_	_	81	4	8	
Uranium plants	ton	_	2.405	43, 040 464	_	_	45, 44 47	
Non-ferrous smelters		_	4,639	20,741	6,045	3,338	34, 76	
Iron and steel furnaces		304	17, 423	242.789	10,333	2,997	273,84	
Cyanide and flotation mills	\$'000		2,504	6, 225	1,743	3,443	13.91	
Puip and paper mills	ton	960	132, 645	24,675	12, 137	4,596	175, 01	
Class works	ton	24	1,542	278	155 954	78	2, 0° 4, 34	
Sugar refineries	\$'000 ton \$'000	131	21 984	7,852	20	14, 932	23, 89	
Tanneries	ton	-	12 92	762	88	329 25	31 90	
Fertilizer plants	\$'000		3 2	8,300	2	150	8, 4	
Sand-lime brick plants	\$,000	~	4, 315	18, 967		3 504	23, 7	
Water and sewage treatment	\$'000	-	43	218 506	_	10,495	11.0	
Other industrial works	\$'000	- Table - Tabl	52, 064	528,009	1,049	168	581.4	
Other consumers	\$'000 ton	-	885	5, 988 19, 002	22	555	6, 9 19, 5	
	\$'000			219		10	2	
Totals, quicklime	\$'000	2, 371 66	221, 443 2, 818	934, 731 10, 579	40,873 630	49, 976 906	1, 249, 38 15, 03	
Hydrated lime Building trades:					4			
Finishing lime	ton		4,671	60,608	4,317	2,394	71, 9	
Mason's lime	ton	1,254	13,618	11,405	133	420	26,6	
Agriculture	\$*000 ton	28	3,846	215 546	_	400	4,7	
	\$'000		46	12	-	6		
Road stabilization	\$'000		30	_	-			
Industrial:	Lon		130			1 500	1.0	
Uranium plants	\$'000		1		= = =	1,500	1,6	
Non-ferrous smelters	\$'000	-	68, 085 374	F2 -	_	275	68,3	
fron and steel furnaces	\$'000		1,250	6,914	_	=	8, 1	
Cyanide and flotation mills	\$'000	- 1	4,651	= -	_	277	4, 9	
Pulp and paper mills	\$'000		13, 416	2, 341	_	100	15.8	
Sugar refinertes	\$'000	48	7, 580	3, 589	11,570	Ξ	22,7	
Tanneries	\$1000		942	2, 121	_		3,0	
Fertilizer plants	\$ 000	83	5.355 48		-	200	5,6	
Sand-lime brick plants	ton \$'000	-	6,743		=	690	7,4	
Water and sewage treatment		889 22	626		436 14	2,089	4,0	
Other industrial works	ton \$'000	328	12. 484	27,543	-	240	40,5	
Other consumers	ton	-7	4, 184	476	=	1,145	5.3	
Totals, hydrated lime	\$'000 ton	2,602	147, 611	115,067	16, 323	9,730	291,3	
	\$'000	60	1, 285	2,548	287	209	4, 3	
Grand totals	s'000	4, 973 126	369, 054 4, 123	1, 049, 798	57, 196 917	59, 706 1, 116	1,540,7	

Shipments include amounts used in producers' own works.
 Not necessarily consumed in provinces where produced; includes by-product time.

Notes: 1. Of the total quantity of 1.540,727 tons of lime produced: includes by-producet lime.

Notes: 1. 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 quicklime 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.

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.I.C.

TABLE 14. Producers' Shipments' of Lime, by All Operators, Showing Purposes for which Used' or Shipped, 1965

*1		1-003-0		Shipped from	prants in				
Uses	- 500	New Brunswick	Quebec	Ontario	Manitoba	Alberta	Canada		
		tons of 2,000 pounds							
Quicklime									
Building trades: Finishing lime	ton	_	10	_	6, 136	6,560	12,7		
Mason's lime	\$'000	869	980	1,583	117	112	3,8		
Mason's time	\$'000	30	18	41	7	-	0,0		
Agriculture	ton	****	53	13, 481	47	-	13, 5		
ndustrial:	\$*000		1	152	1		1		
Uranium plants	ton	_	_	17, 448	_		17, 4		
Non-ferrous smelters	\$'000 ton	_	4,806	9,946	5, 157	2,872	22,		
	\$,000	- 0	56	312,665	76 11, 293	52 4, 483	344.		
Iron and steel furnaces	\$*000	68	16, 393 202	3,696	171	72	4,		
Cyanide and flotation mills	ton		6, 124	7,087	1,597	3,775	18,		
Pulp and paper mills	ton	862	131, 310	28,068	10,938	3,989	175, 1		
Glass works	\$'000 ton	22	1,548 3,322	315	143 996		2, 0		
Sugar refineries	\$'000	116	23 840	5,712	6,761	14, 243	27. 1		
	\$'000	3	10	33 891	113 135	314	1.		
Tanneries	\$'000		1	11	4				
Fertilizer plants	ton		2	3, 362	****	175	3,		
Sand-lime brick plants	ton	-	5,126	17,076	-	646	22.		
Water and sewage treatment	\$1000	- I	49	197 620	1,176	11,038	12,		
	\$*000	-	E2 257	8	25	196 125	586,		
Other industrial works	\$*000		53, 357 907	533, 059 5, 741	_	2	6,		
Road stabilization	ton	-1	-	_	5,769	2,505	8,		
	\$,000	-	-	- CD F00	99	44	64		
Other consumers	ton		36	63, 790 690	_	381	64,		
Totals, quicklime	ton \$'000	1,915	222, 403 2, 888	1, 014, 788 11, 296	50, 466 808	50, 814 949	1, 340, 15,		
Hydrated lime	\$ 000	31	4,000	11,430	000	,,,,,	201		
Building trades:									
Finishing lime	\$*000	- April	4,671	64, 248	1.733	1,734	72, 1,		
Mason's lime	ton	1, 221	16, 160	10,558	-	450	28,		
	\$'000	33	232	211		9			
Agriculture	\$*000	72	3,704	389	Mare	1,30	5,		
ndustrial:									
Uranium plants	s'000	_		_	-	1,250	1,		
Non-ferrous smelters	ton	-	62,876	_		299	63,		
Iron and steel furnaces	\$'000 ton	_	2,762	8, 249		-	11.		
Iron and steel furnaces			28	133		652			
Cyanide and fiotation mills	\$'000	_	_		-	12	20		
Pulp and paper mills	ton		26, 796 340	2,793		200	29.		
Sugar refineries	ton	5	9,299	4, 282	= = = = 1		13,		
Tanneries	\$'000 ton	700	153 152	2,530	- Marin		2,		
Fertilizer plants	2,000	29	5,329	43	Mare	247	5,		
	\$'000	1	46	Asse		5			
Sand-lime brick plants	\$'000	_	5, 249	I		433	5,		
Water and Sewage treatment		212	_		_	2, 388	2,		
Other industrial works	ton	100	7,789	24, 356	-	224	32,		
	\$'000	2	44	426		5	5		
Other consumers	\$'000	_	4, 061			1,181	5,		
Totals, hydrated lime	ton	1,639	148,848	117, 405	1,733	10, 393	280,		
	\$'000	44	1, 302	2, 546	38	206	1 620		
Grand totals	ton	3,554 101	371, 251 4, 190	1, 132, 193 13, 842	52, 199 846	61, 207 1, 155	1, 620, 20,		

See Notes Table 13 and text.

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 1,620,404 tons of lime produced 538,368 tons were consumed by the producers themselves. Of this latter amount 13,806 tons of hydrated lime and 448,447 of quicklime were consumed in Ontario; 45,956 tons of quickline and 9,155 tons of hydrated lime in Quebec; and the balance, 31,004 tons of quicklime in other provinces.

TABLE 15. Producers' Shipments of Lime, 1955-65

Vana	Shipped	Used by	Total		
1 egt	Year for sale produ				
		short tons		\$'000	
1955 1956 1957 1958 1959	832,874 822,812 839,979 1.077,763 1,122,965	498. 244 472. 887 538, 638 518. 659 562. 760	1,331,118 1,295,699 1,378,617 1,596,422 1,685,725	15,811 15,688 16,679 19,466 21,298	
960 961 962 963 964 965	979,725 879,057 848,196 887,986 997,632 1,082,036	549, 843 536, 233 576, 263 562, 745 543, 095 538, 368	1,529,568 1,415,290 1,424,459 1,450,731 1,540,727 1,620,404	19,302 19,217 17,647 18,504 19,409 20,134	

See Notes Table 13 and text.

TABLE 16. Producers' Shipments of Lime, by Months, 1964 and 1965

Month	1964	1965	Month	1964	1965
	to	ns		t	ons
anuary 'ebruary larch pril lay une	119,066 116,339 134,484 119,493 115,125 128,422 125,671	118,850 123,456 137,147 129,005 132,285 137,024 137,109	August September October November December Totals	118,639 131,599 148,178 137,462 146,249	139,842 135,238 143,202 146,121 141,125

See Notes Table 13 and text.

TABLE 17. Lime Shipped or Used for Chemical and Other Purposes, 1956-65

Year	Lime s	hipped or use industrial p	d for chemical a purposes	nd	Lime shipped or used for building or other non-industrial purposes			
A C 60A	Quickl	lme	Hydrated	lime	Quickli	me	Hydrated	llime
	short tons	\$'000	short tons	\$'000	short tons	\$'000	short tons	\$'000
1956 1957 1958 1959	861, 784 1, 010, 841 1, 194, 054 1, 296, 807	10, 484 11, 952 14, 289 16, 171	208, 449 178,806 204, 595 194, 011	1,390 1,318 1,498 1,488	85, 532 63, 497 64, 035 62, 859	1, 369 1, 097 1, 083 1, 085	139, 934 125, 473 133, 738 132, 048	2,425 2,312 2,596 2,560
1960	1,168,180 1,085,090 1,110,853 1,159,547 1,196,901 1,237,725	14,764 14,700 13,069 14,156 18,640 14,678	196,628 161,515 133,623 128,544 187,824 168,501	1,429 1,440 1,366 1,329 2,110 1,838	45. 417 57. 264 70. 205 45. 277 52. 493 102. 661	846 931 1,080 759 769 1,320	119,343 111,421 109,778 117,363 103,509 111,517	2, 264 2, 146 2, 132 2, 260 2, 279 2, 298

See Notes Table 13 and text.

TABLE 18. Imports and Exports of Lime, 1964 and 1965

	1964		1965	
Imports	tons	\$'000	tons	\$'000
rom:	00.00	480	25.000	50
United States United Kingdom France	20, 551 152 88	476 2 2	25, 143 124 67	530
Totals	20, 791	480	25, 334	53
Exports				
o: Leeward and Windward Islands			10	
Bahamas Pakistan			103	
United States	102.725	1.171	238, 318	2.66
British Guiana Netherlands Antilles	3,500	33	780	2.7-5.0
St. Pierre de Miquelon	106, 343	1, 208	1	D 41

TABLE 19. Lime Kiln Capacities, 1961-65

		Total kilns		Kilns in use during the year		
Year	Numl	per	Total capacity	Number		Total capacity
	Stack	Rotary	Tons per 24 hours	Stack	Rotary	Tons per 24 hours
961 1962 1963 1964 1965	113 96 96 81 80	29 30 30 28 26	8, 245 8, 429 8, 599 8, 154 7, 894	106 83 84 65 66	25 26 27 22 21	7,440 7,196 7,729 6,818 6,808

¹Includes lime kilns of other industries.

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

Country 1	1961	1962	1963	1964	1965
		thou	sand short tons		
North America:		1			
	1,415	1.424	1,451	1,541	1.51
Canada Costa Rica ²	4	4	6	7	1
Guatemala	11	3	3	3 ' •	3
Honduras	28	29	31	29	3
Nicaragua Puerto Rico	1	1	4	18	2
United States (sold or used by producers)	13, 249	13,753	14,521	16,089	16,79
West Indies:					
Bahamas	3	2	5	3	
Barbados (exports)	16	8	3	3 -	3
Dominican Republic Haiti ²	180	180	180	180	18
A CONTRACTOR OF THE PARTY OF TH			1.000		
outh America:	1.100	3	3	3	3
Argentina	1,410	1,308	1,332	1,585	
Brazil Columbia	90	94	107	110	11
Paraguay	19	19	19	20	2
Peru	77	88	94	102	
Unignay 2	36	36	33	46	
Venezuela	38	49	55	75	7
Curope:					
Austria	784	740	759	805	7
Belgium	2,120	2, 245	2, 223	2,534	2,53
Bulgaria	698	766	830	913	2.7
Czechoslovakia	2,598 162	2,611	2, 485	2,587	- 13
Denmark	245	246	229	265	21
Finland France	3,248	3, 078	2,919	3, 216	2, 99
Germany:	-,				
East	3, 116	3,686	3,811	4,049	4, 10
East West ⁴	10,939	10,690	10,775	11,920	11.7
Hungary	676	685	685 36	807	78
Ireland	32	33	30	9.6	, .
Luxembourg	45	39	18	3	3
Malta Norway	- 20	3	3	121	14
Poland	2,071	2, 186	2,209	2, 326	2, 42
Rumania	725	746	806	896	1,00
Spain	160	203	234	283	
Sweden	983	798	853	1,071	
Switzerland	205	212	203	17,855	18,7
U.S.S.R.	19,025	, 18, 239	17, 651	3 11,000	3 10, 1
United Kingdom Yugoslavia	800	847	947	999	1,2
cyprus	45	50	65	2 44	
Indonesia	114	1 070	1 5 07	1,798	1.8
Japan	1,255	1,373	1,527	1,798	1,8
Kuwait	8	10 ²	39	29	
Lebanon	14	23	28	33	
Mongolia ² Philippines	28	472	35	32	
Ryukyu Islands	3	1	1 2	3	
Saudi Arabia	3	3	7	3	1
Syrian Arab Republic	3	3	3	3	,
Taiwan	84	83	88	101	1

See footnotes at end of table.

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

Country ¹	1961	1962	1963	1964	1965
		tho	usand short tons		
Africa: Algeria Cape Verde Islands Congo, Republic of (Léopoldville) Ethiopia* (including Eritrea) Kenyu Libya² Mozambique South Africa, Republic of (saies) South-West Africa Tanzania (sales and exports) Tunista Uganda Zambia	2 .5 -18 8 748 4 133 16	52 6 3 19 7 726 3 3 142 18	74 5 1 719 3 1 146 12	75 75 77 5 771 4 2 193 13	72 4 11 823 4 2 185 22 85
Oceania: Australia' Fiji Islands	124	139	130	144 4	20

Lime is also produced in Chile, China, Ecuador, Greece, India, Iran, Israel, Italy, Republic of Korea, Mexico, Morrocco, New Zealand, Pakistan, 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.

2 Estimate.

3 Data not available.

4 Including Saar, beginning 1960.

3 Negligible.

6 Year ended September 10 of year stated.

7 Year ended June 30 of year stated.

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

Directory of Firms which Operated Lime Kilns, 1965

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

Name	Head office address	Location of plant
New Brunswick:		
Snowfiake Lime Limited ¹	Box 954, Saint John	Salnt John
Duebec:		
Aluminium Company of Canada, Limited Bousquel, Adrien Dominion Lime Limited ¹ Domtar Chemicals Ltd. (Gypsum Lime Division) ¹ Raffinetie de Sucre de Québec Shawinigan Chemicals Limited	Box 6090, Montreal 3 St-Dominique de Bagot 1155 Dorchester Blvd. W., Montreal 1155 Dorchester Blvd. W., Montreal St-Hilaire Est 600 Dorchester Sl. W., Montreal	Wakefield St-Dominique Lime Ridge Joliette St-Hilaire Shawluigan Falls
Ontario:		
Bonnechere Lime Limited Brunner Mond Canada, Limited c/o Allied Chemical Canada Ltd.	Carleton Place 1155 Dorchester Bivd. W., Montreal 2, Quebec	Grattan Twp. Anderdon Twp.
Canada & Dominion Sugar Co. Ltd. Canadian Gypsum Company, Limited' Carleton Lime Products Co.¹ Cyanamid of Canada Limited	Chatham Box 4034, Postal Station A., Toronto Box 1000, Carleton Place Niagara Falls	Chatham Guelph Twp. Carleion Place Niagara Falls Ingersoll
Dominion Magnesium Limited Domtar Chemicals Ltd. (Gypsum Lime Division) ¹ Rockwood Lime Company Ltd. Sieel Co. of Canada Ltd., Chemical Lime Works	Haley 1155 Dorchester Blvd, W., Montreal Rockwood Ingersoll	Haley Beachville and Hespeler Rockwood Ingersoll
Manitoba;		
B.A.C.M. Limited ¹ Manitoba Sugar Co. Ltd. Selkirk Silica Co. Lld. ¹	1500 Plessis Road, Transcona Fooi Hervo St., Winnipeg 491 Portage Ave., Winnipeg 2	Inwood Fort Garty Spearhill and Stonewall
Alberta:		
Canadian Sugar Factories 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	Picture Butte and Taber Kananaskis Lethbridge

¹ These establishments comprise the industry "Lime Manufacturers" for statistical purposes.

Note: Firms in the above directory include all producers of time 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 55 (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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

Employees

(a) Production and related workers — Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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