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DOMINION BUREAU OF STATISTICS OF STATISTICS PRCPERTY OF TH

# ALUMINUM ROLLING, CASTING AND EXTRUDING 1965

ANNUAL CENSUS OF MANUFACTURES

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DOMINION BUREAU OF STATISTICS Manufacturing and Primary Industries Division

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## ALUMINUM ROLLING, CASTING AND EXTRUDING

## 1965

For statistical purposes the industry titled Aluminum Rolling, Casting and Extruding in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing aluminum shapes, such as bars, rods, plates, sheets and castings. Pressure die casting of aluminum is included in the Metal Rolling, Casting and Extruding, n.e.s. industry and the extraction of aluminum from the ore is classified to the Smelting and Refining industry.

Value of shipments and other income for this industry totalled \$156 million, an increase of \$29 million from 1964. This amount included shipments of aluminum products such as bars and rods, extruded shapes, pipe and tubing, roofing and siding, sheets and strip, castings and die castings and similar products valued at \$150 million, shipments of other products (secondary products) valued at \$5 million, and revenue of \$1 million.

Secondary products shipped by this industry in 1965 included brass and bronze and other castings, zinc base, die castings, printed paper products, magnesium extrusions, and so on.

The cost of materials and supplies, fuel and electricity, etc. (inputs) used in the production of goods of own manufacture, increased by \$10 million. Cost of inputs in 1965 represented 73 per cent of the value of shipments of own manufacture (outputs), compared to 83 per cent in 1964.

It should be noted that Table 13 covers the shipments of the establishments classified to this industry, whereas Table 14 presents the total value of shipments of the specified commodities of Canadian manufacture. And include, where applicable, shipments of those commodities reported by establishments classified to other industries.

## 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.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

				Man	ufacturing	activity				Т	otal acti	vity	
Y ear and	Estab- lish-		oduction ated work		Cost of	Cost of	Value of shipments			g owners artners	Emp	loyees	
province	ments	Number	Man- hours pald	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawais	Number	Salaries and wages	Value added
	No.		'000			\$'000				\$1000		\$'(	000
1961						1							
Totals	43	3,738	7,921	16,324	2, 090	76,751	110,456	34,106	4	15	5,095	23, 403	34,052
1962													
Totals	42	3,741	7,794	16,331	2,215	93, 193	121,912	25,424	11	62	5,118	23, 805	25,354
1963					_								
Totals	44	3,808	7,957	17,182	2, 491	97, 706	129, 275	31,901	9	38	5,164	25,223	31,806
													011000
1964								line.			1.115		
Newfoundland	-	-		-	-	-	-			-	-	-	-
Prince Edward [sland	araa	-	-	-	-	- 1	-	19			-	-	-
Nova Scotia	-		-	-	-	-	-	-	_	-	_	-	-
New Brunswick			-	-	-	-	-	-	-		-	-	_
Quebec	12	x	x	x	x	x	x	x	x	x	x	x	x
Ontario	27	2,497	5, 240	12, 285	1,523	56,681	71,189	10,791	7	32	3,373	17,354	10,394
Manitoba	_	_		-	_	_		-	-	-	-	_	
Saskatchewan	-	_	_	_	_	-	-	_	_	-	_	-	-
Alberta	3	x	x	х	х	x	x	x	x	x	x	x	x
British Columbia	5	x	x	x	х	х	x	x	x	x	x	x	x
Yukon and Northwest Territories	-	-		-	-	-	-	-	-	-	_	-	-
Totals	47	3,411	7,294	16, 590	2,237	100,807	126, 579	20, 905	10	42	4,834	24, 770	20, 426
1965												-0.1	
Newfoundland	-	_	_	-		_		-			-		
Prince Edward Island		-	-	-	-		_	_	-	_	_	-	-
Nova Scotia		_			_	-		_	_	-	_	ST	1 22
New Brunswick	_	_	_	_	_	_	-	-	_		-		
Quebec	13	х	x	x	х	х	х	x	x	x	x	x	X
Ontario	30	2, 499	5,355	12,809	1, 773	52, 986	85,729	32, 165	8	34	3,299	17.884	31,934
Manitoba	_	_	-	_	_	_	-	-	_	_	_	1285	_
Saskatchewan			**	_	_	-	-	_	1			8	-
Alberta	3	x	х	x	х	X	x	х	х	x	x	x	x
British Columbia	4	х	х	x	х	x	х	x	_	-	х	x	x
Yukon and Northwest Territories	_	-	-	_		-	_	_	-	-	_	_	_

					Man	ufacturing	activity				Т	otal activ	rity	
	Size group	Estab- lish- ments		duction a ited work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value	Working and pa		Empl	oyees	Value
			Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
-		No.		,000			\$'000	î			\$'000		\$'(	000
	1964													
25,00 50,00 100,00 200,00 500,00 1,000,00 Head off	00 to \$ 24,999 00 ' 49,999 00 ' 99,999 00 ' 199,999 00 ' 499,999 00 ' 999,999	3 5 5 9 7 4 5 6	5 15 20 89 169 147 391 2,575	10 30 40 182 350 384 828 5,469		3 5 3 23 48 62 272 1,820	8 34 77 86 725 807 1,181 9,343 88,545	20 87 191 236 1,492 2,122 2,664 13,386 106,381	$\begin{array}{c} 11\\ 51\\ 108\\ 146\\ 747\\ 1,264\\ 1,455\\ 3,470\\ 13,652\\ \ldots \end{array}$	2 4 3 - 1 - - -	4 18 13 - 7 - - -	1 6 19 26 14 198 188 580 3, 702	3 17 61 98 487 821 977 2, 659 19, 647	11 54 108 146 751 1,307 1,436 3,428 13,186
Tota	als	47	3,411	7, 294	16,590	2,237	100,807	126,579	20,905	10	42	4,834	24,770	20,426
	1965								-					
25,00 50,00 100,00 200,00 500,00 1,000,00 5,000,00 Head off	00 to \$ 24,999 00 '' 49,999 00 '' 99,999 00 '' 199,999 00 '' 499,999 00 '' 999,999	3 5 4 5 5 8 6 5 9	- 6 9 26 70 130 213 228 2,680		17 33 92 272 558 821 1,119 14,246	3 3 8 14 42 82 170 2,340	7 32 70 121 325 1,023 1,820 8,013 98,956 	23 86 177 338 866 2,225 3,596 11,066 136,316	15 53 104 213 531 1,176 1,736 3,199 36,886 	2 4 4 - - - -	5 16 17 - - - - -	1 7 10 33 86 156 252 284 3,825 	3 21 36 128 367 725 1,064 1,493 21,910	15531042075461,1751,6883,26836,542
Tota	als	50	3, 362	7,301	17,158	2,661	110,367	154, 711	43,914	11	43	4,654	25,748	43, 598

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

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

				Man	ufacturing	activily				Т	'otal activ	vity	
Size group	Estab- lish- ments		duction a sted work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value		Working owners and partners		Employees	
	incirio.	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 \$ 10,000 to \$ 24,999 25,000 ** 49,999 50,000 ** 99,999 100,000 ** 199,999 200,000 ** 499,999 200,000 ** 499,999	4 7 6 5 7 10	10 29 33 120 474	22 56 70 248 1,038	35 97 139 455 2, 189	1 4 11 10 30 227	15 74 303 379 559 11,661	32 179 524 761 1,488 15,385	16 101 205 376 912 3,214	3 6 - 1 -	8 27 - 7 -	$1 \\ 13 \\ 42 \\ 44 \\ 144 \\ 663$	3 41 150 207 607 3,105	16 104 204 381 911 3,212
500,000 " 999,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units	8	2,745	5,860	13,676	1,955	87,816	108,210	16,081			3,927	20,657	15,599
Totals	47	3,411	7, 294	16,590	2, 237	100,807	126, 579	20,905	10	42	4, 834	24,770	20, 426
1965													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999	4 5 7 5	1 25 48	2 12 52 94	2 18 96 159	1 3 7 17	11 52 153 449	37 116 403 830	24 63 246 366	3 5 2 1	9 22 7 6	2 7 32 59	5 23 132 208	24 64 240 380
100,000 <sup>17</sup> 199,999 200,000 <sup>14</sup> 499,999	} 17	494	1,083	2,503	140	31,616	34,585	3,617	-	-	667	3,735	3,554
500,000 ** 999,999	4	207	477	1,010	153	6,710	9,410	2,842	-	- 1	256	1,341	2,915
1,000,000 ** 4,999,999 5,000,000 and over Head offices, sales offices and	} 8	2,581	5,582	13, 368	2, 340	71,375	109,330	36, 755	-	-	3,631	20, 305	36, 421
auxiliary units													
Totals	50	3,362	7,301	17,158	2,661	110,367	154,711	43,914	11	43	4,654	25,748	43,598

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

				Man	ufacturing	activity				T	otal activ	vity	
Size group	Estab- lish-		duction ated work		Cost of	Cost of materials	Value of shipments of goods	** - 1		Working owners and partners		Employees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	and of own	Value added	Number	With- drawals	Number	Salaries and wages	Value added	
	No.		'000			\$'000				\$'000		\$'0	00
1964								ī					
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999 100,000 '' 199,999 200,000 '' 499,999	4 7 6 5 7 10	10 29 33 120 474	22 56 70 248 1,038	35 97 139 455 2,189	1 11 10 30 227	15 74 303 379 559 11,662	32 179 524 761 1,488 15,385	16 101 205 376 912 3, 214	3 6 - 1 -	8 27 - 7 -	$1 \\ 42 \\ 44 \\ 144 \\ 663$	3 41 150 207 607 3, 105	16 104 204 381 911 3,212
500,000 '' 999,999 1,000,000 '' 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units	8	2,745	5,860	13,676	1,955	87, 816	108, 210	16,081	-	-	3, 927	20, 657	15,599
Totals	47	3, 411	7, 294	16, 590	2, 237	100, 807	126, 579	20, 905	10	42	4, 834	24, 770	20, 426
1965													
Undet \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999	4574	1 6 25 42	2 12 52 82	2 18 96 140	1 3 7 16	11 52 153 358	$37 \\ 116 \\ 403 \\ 650$	24 63 246 278	3 5 2 1	9 22 7 6	2 7 32 49	5 23 132 166	24 64 240 278
100,000 199,999 200,000 499,999	} 18	500	1,095	2,523	141	31,707	34,765	3,705	_	_	677	3, 777	3,657
500,000 ** 999,999	4	207	477	1,010	153	6,710	9,410	2,842	-	-	256	1,341	2,915
1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and	8	2,581	5,582	13, 368	2,340	71,375	109,330	36, 755	-	-	3,631	20, 305	36,421
auxiliary units			• • •			* * *							* * *
Totals	50	3,362	7,301	17, 158	2,661	110, 367	154, 711	43,914	11	43	4,654	25,748	43, 598

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

				Mar	ufacturing	activity				1	Fotal acti	vity	
Size group	Estab- lish-		oduction ated worl		Cost of	Cost of	Value of shipments of goods	Tralue		Working owners and partners		Employees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies		Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000			-	\$'000		\$"(	00
1964													
Under 5 employed 5 - 14 employed 15 - 49 " 50 - 99 " 100 - 199 "	12 11 11 4 5	13 69 235 189 548	$28 \\ 140 \\ 501 \\ 473 \\ 1, 165$	50 262 963 838 2,717	6 21 77 68 349	104 715 2,151 2,425 36,083	254 1, 392 4, 226 4, 223 42, 147	143 657 2,030 1,725 5,568	9 1 	35 7	18 94 291 237 798	$\begin{array}{r} 62\\ 389\\ 1,275\\ 1,154\\ 4,411\end{array}$	146 661 2,008 1,754 5,512
200-499 " 500 employed and over Head offices, sales offices and auxiliary units	} 4	2 357	4, 986	11,760	1,716	59, 329	74, 337	10,783		-	3,396	17,479	10, 347
Totals	47	3, 411	7, 294	16, 590	2, 237	100, 807	126, 579	20, 905	10	42	4, 834	20, 770	20, 426
1965													
Under 5 employed	12 11 15 3 5 4	13 87 359 168 514 2,221	26 175 738 411 1,122 4,829	40 339 1,565 739 2,814 11,661	6 31 223 75 388 1,939	117 2,920 10,175 1,113 42,622 53,420	294 4,014 14,556 2,547 48,076 85,224	$176 \\ 1, 387 \\ 4, 418 \\ 1, 381 \\ 5, 679 \\ 30, 873$	10 	38 - 6 	16 109 433 200 800 3,096	55 444 2,040 965 4,849 17,396	169 1,472 4,402 1,346 5,619 30,590
If it is a sales offices and a subject of the sales of the sale of													
Totals	50	3, 362	7,301	17, 158	2,661	110, 367	154, 711	43, 914	11	43	4,654	25, 748	43, 598

				Man	ufacturing	activity				1	fotal acti	lvity	
Type of organization	Estab- lish-		duction a ated work		Cost of	Cost of	Value of shipments			owners artners	Employees		
or Banzation	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	00
1964						1							
Individual ownerships	1	17	34	61	8	148	318	163	10	42	18	66	163
Partnerships	} 9	11	34	01	ö	140	518	103	10	1 12	10	00	103
Incorporated companies	38	3,394	7,259	16,529	2,229	100,659	126,261	20,742			4,816	24,704	20, 263
Co-operatives	_	_					_	-			-	-	-
Head offices, sales offices and auxiliary units													
Totais	47	3, 411	7, 294	16, 590	2, 237	100, 807	126, 579	20, 905	10	42	4, 834	24, 770	20, 426
1965													
Individual ownerships	] 10	23	46	75	12	204	438	223	1	43	24	80	223
Partnerships	} 10	23	40	(5)	12	204	430	223	11	40	64	00	000
Incorporated companies	40	3,339	7,255	17,082	2,649	110,163	154, 273	43,691			4,630	25,668	43, 375
Co-operatives	-	-	-	-	-		-	-				-	-
Head offices, sales offices and auxiliary units													
Totals	50	3, 362	5,301	17, 158	2,661	110,367	154,711	43,914	1.1	4.3	4,654	25, 748	43, 598

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

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

	Manufacti activit		Non-manufa activiti		Total activity		
	1964	1965	1964	1965	1964	1965	
		· · · · · · · · · · · · · · · · · · ·	\$'000	)			
Output							
1, Shipments and other revenue	126,579	154,711	426	815	127,005	155, 526	
Inventories-Goods of own manufacture:							
Add closing - Goods in process	4,953	5,542		0 0 0	4,953	5,542	
Finished goods	5,574	8,280			5, 574	8, 280	
Deduct opening - Goods in process	5,636	5,085			5,636	5, 085	
Finished goods	7,520	6,506		0.0.0	7,520	6,506	
2. Net inventory change	( 2, 629)	2,231			(2,629)	2, 231	
3. Gross output (1 + 2)	123,950	156,942	426	815	t24,376	157, 757	
Input							
4. Purchases of goods not of own manufacture	0 0 0		504	859	504	859	
Inventories - Goods not of own manufacture:	I.	1					
Add opening	0	0 4 *	172	37	172	37	
Deduct closing		4 4 4	37	78	37	78	
5. Cost of goods sold (not of own manufacture)			639	818	639	818	
6. Materials, supplies, etc.	100,807	110,367	265	313	101,072	110, 62	
7. Fuel and electricity	2.237	2,661			2,237	2,66:	
8. Gross input (5 + 6 + 7)	103,044	113,028	904	1,131	103, 948	114,165	
Value added (3 - 8)	20,905	43, 914	(479)	(316)	20,426	43, 598	

					Emplo	yees						Salari	es <mark>and</mark> wa	ages	
Year and		Product related			Adm			les	To	tal	Producti		Admin-	Sales	I
province	Manufa	cturing	0	ther		office		butlon	10	tai	related v	vorkers	istra- tive and	and distri-	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
		-			numt	per							\$1000		-
1964		1		1				1		1					L
Newfoundland	-	-	-	-	-	-		-	-	-	-		-	-	ł
Prince Edward Island	-	-	—	-	-		_	-		-	-		-	-	ł.
Nova Scotia	-			-	-	-		-	-		-	-	-	-	ł
New Brunswick	-	_		-	-	-	-	-	-	-	-	-	-	-	ł
Quebec	х	x	_	-	X	x	х	х	х	х	х		x	х	
Ontario	2, 389	108	-	-	643	192	31	10	3,063	310	12,285	-	4,803	265	
Manitoba				-	-	- 1		-	-	-		-	-	-	l
Saskatchewan	_		-	_	-		-		_	-		-	-	-	
Alberta	x	-		-	х	x	-	-	х	х	X		x		L
British Columbia	х	х	_	-	х	x		-	x	х	x	-	x	-	
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-		_	-		-	-	
Totals	3,271	140	- 11	-	1,003	297	79	44	4,353	481	16,590	-	7,358	822	
1965															
Newfoundland		-		-	-	-		-	-	_	-	-		-	
Prince Edward Island				-				-		_	-	_	-	-	

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Nova Scotia .....

Quebec .....

Manitoba .....

Totals .

Saskatchewan

Alherta .....

British Columbia

Yukon and Northwest Terri-

tories

Ogtario .....

New Brunswick .....

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#### TABLE 8, Employment and Payroll, 1964 and 1965

Total

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17,884

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

	196	4	196	5
Month	Male	Female	Male	Female
	1	numbe	197	
Establishments reporting monthly detail (large establishments only):		1		
Januaty	3,326	149	2,824	11
February	3,346	149	2,707	13
March	3, 296	156	2,855	14
April	3, 353	162	2,926	13
May	3,374	159	2,972	15
June	3, 169	124	2,983	15
July	3, 161	113	3, 177	17
August	3,179	1 18	3, 222	15
September	3, 106	114	3,285	14
October	2,650	10 1	3, 186	14
November	2,890	113	3,142	14
December	2,786	85	3,154	13
Averages	3,133	128	3,037	143
Establishments reporting annual averages (small establishments only)	138	12	170	10
Average for all establishments	3,271	140	3, 207	15

		Manufa	cturing		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	Total inventori
			book value	\$'000		
Opening:						1.111
Newfoundiand		-	-		-	-
Prince Edward Island		-		-	-	-
Nova Scotia	-	-		-	-	-
New Brunswick	-	-		-	-	-
Quebec	х	х	х	х	-	x
Ontario	10,992	2,604	4,416	18,013	37	18,04
Manitoba	Para.		-	_	-	-
Saskatchewan	-		-		-	-
Alberta	x		x	x	-	x
British Columbia	х	х	x	х	-	х
Yukon and Northwest Territories			-	-	-	-
Totals	13,962	5,085	6, 506	25, 553	37	25, 59
Closing:						
Newfoundland		_		_	-	-
Prince Edward Island	-				-	-
Nova Scotia	- 1			wain	-	-
New Brunswick		-		-	-	-
Quebec	x	x	х	х	-	х
Ontario	5,129	2,921	5, 294	13, 343	78	13,42
Manitoba	-	_		where the	-	
Saskatchewan	_		_	_	-	
Alberta	х	-	x	х		X
British Columbia	х	х	х	x	-	X
Yukon and Northwest Territories			-		-	
Totals	8, 592	5, 542	8, 280	22, 414	78	22, 49

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

	1964		1965		
Description -	Quantity Cost		Quantity	Cost	
		\$'000		\$'000	
1. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines ton	-			-	
(b) Imported	-	-	-	***	
Sub-bituminous coal (from Alberta mines only)	-	-		-	
Anthracite coal	_	_		_	
Lignite coal		- 1			
Coke		- 1	-		
Gasoline (including gasoline used in cars and trucks) Imp. gal.	110,027	36	128,431	45	
Fuel oil including kerosene or coal oil	5, 468, 824	537	7,883,222	736	
Wood	-	-	Variat		
Gas:					
(a) Liquefied petroleum gases Imp. gal.	366,716	47	258,411	54	
(b) Other manufactured gas	-		-	-	
(c) Natural gas	477, 267	321	628,526	409	
Other fuel		-		10	
Electricity purchased kwh.	171, 328, 657	1, 263	180,788,871	1,36:	
Steam purchased		-	-	-	
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity		32		45	
3. Ail establishments:		0.05-			
Total fuel and electricity used	* * *	2, 237	***	2,661	

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Description of the second s	1964		1965	
Description	Quantity	Cost	Quantity	Cost
	lbs.	\$'000	lbs.	\$'000
Materials used:				
Aluminum: Ingots (Includes wire bar and re-roll sheet stock) Scrap Sheets and strip Other	274,358,965 19,125,965 6,974,669	68,325 3,713 2,210 15,468	277, 117, 006 20, 306, 654 9, 605, 051	69,790 4,762 3,745 18,696
Brass and bronze	134,645	60	96,245	4:
Copper	373,031	125	162, 314	7
Magneslum	1,048,571	374	1,430,583	51
Zinc	173,790	29	195, 567	3
Other non-ferrous metals		8 20		64
Stalnless steel		20		3
Steel (except alloy steel): Plates, sheets and strip Other forms		5 229		24:
All other materials and components used <sup>1</sup>		3,689		4, 43
Containers and other packaging materials and supplies used		1,050		1,080
Operating, maintenance and repair supplies used (excluding fuel)		4,058		5,00
Amount paid out to others for work done on materials owned by establishments		631		1.26
Totals		100,807		110, 36

#### TABLE 12, Materials and Supplies - Manufacturing Activity, 1964 and 1965

<sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$905,615 in 1964 and \$1,025,452 in 1965.

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
	lbs.	\$'000	lbs.	\$'000
1. Products:				
Castings, aluminum (except dle castings)	5,959,200	4,463	9,074,225	6,496
Castings, other (brass, bronze magnesium, etc.) (except die castings)		1,472		1,721
Extruded shapes, aluminum	59, 487, 855	27,497	63,642,981	29, 262
Foil, alu minum	8	1	33, 421, 019	18, 597
All other products		93, 145		98,260
2. Amount received in payment for work done on materials and products owned by others		433		6 5 9
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		(431)		(283)
Net adjustment for establishments receiving progress payments	-	-	-	-
Total adjusted value of shipments and work done		126, 579		154,711

<sup>1</sup> Confidential included in "All other products".

## TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1961-65 (Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed) A. Aluminum Castings and Aluminum Die Castings

	Aluminum castings <sup>1</sup>		Aluminum die castings <sup>1</sup>		
	Year	Quantity	Value	Quantity	Value
		M lbs.	\$'000	M 1bs.	\$'000
		8,762	7,063	3,737	2,651
		9,111	7,974	8,098	5,302
		10,674	7,996	10,128	6,086
		9,704	7,797	10, 146	6,491
		12, 567	9,844	24.781	14.592

etc.

<sup>1</sup> Reported for sale as such, does not include castings produced for own use or castings reported under other commodity headings such as hardware, parts,

## TABLE 14. Shipments of Selected Goods of Own Manufacture ~ All Industries, 1961-65 - Capitladad B. Specified Aluminum Products

Year	Extruded st	Aluminum foil	
I 631	Quantity	Value	Value
	M lbs.	\$'000	
961	43,004	21,958	13, 392
962	51, 578	25, 156	15,010
963	58,796	27, 108	16,42
964	62, 179r	28, 733 r	17,24
965	67,230	30,912	18,59

#### List of Establishments classified to this Industry, 1965

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

Name	Location		
Quebec:			
Alcan Aluminum Limited Aluminum Permanent Moulding Cenal Foundry Ltd. Cercast Inc.	Arvida Waterloo St-Rémi 3905 Industrial Blvd., Montréal-Nord		
Custom-Aire Aluminum Limited. Decelles, Georges Fonderie Laliberté, Ent. Modern Aluminum Products Co.	114 Labrosse Blvd., Pointe-Claire Pointe-aux-Trembles Québec 1520 Notre-Dame St. N., Montreal		
Nesco Aluminum Ltd	La Malbale 10206 Armand Lavergne St., Montreal-Nord		
Reynolds Aluminum Co, of Canada Ltd. Reynolds Extrusion Sales Co, Ltd. Supreme Profision Castings Ltd. (1963)	Cap-de-la-Madeleine Ste-Therese-de-Blainville 550 Montoe de Liesse Rd., St-Laurent		
Ontario			
Alcan Aluminum Ltd.	Kingston		
Alcan Aluminum Ltd.	Scarborough		
Almag Aluminum and Magnesium Ltd.	343 Munster Ave., Toronto		
Alumaloy Castings Limited Aluminum Star Products	483 Eastern Ave., Toronto 175 College St. W., Belleville		
Canada Foils Limited	1891 Egiinton Ave. E., Toronto		
Canadian Mouldings Ltd. Chrysler Canada Ltd.	400 Lacroix St., Chatham 15 Brown's Line, Toronto		
City Foundry Co.	Windsor		
Coles, J., Aluminum Foundry	114 Sinnott Rd., Scarborough		
Custom-Aire Aluminum Limited	61 Arrow Rd., Weston Hespeler		
Drummond, T.A., Metal Products Ltd.	Cooksville		
Dunbar Aluminum Foundry Ltd.	Kitchener Brantford		
Harrington Aluminum Foundry Ltd.	Woodstock		
Industrial Fine Castings Ltd. Kem's Foundry	272 Geary Ave., Toronto Windsor		
Meteor Foundry	10 Camso Rd., Rexdale		
Mid Canadian Investment Castings Ltd.	Georgetown 160 Fessmar Dr., Toronto		
Per-Mold Castings Ltd	156 St. Helens Ave., Toronto		
Queen East Foundry	96 Gould St., Toronto		
Ramsden Manufacturing Ltd. Regal Die Casting Co. Ltd.	London Brampton		
Reynolds Extrusion Co. Ltd.	Oshawa		
Robert son, Joseph, Foundries Ltd.	32 Milford Ave., Toronto 14 Racine Rd., Rexdale		
Supreme Castings and Mfg. Co. Wallaceburg Aluminum Extrusions Ltd.	Wallaceburg		
Woodstock Foundry Ltd.	Woodstock		
Alberta:			
Albronze Foundry Ltd.	Calgary		
American Brass and Aluminum Foundry Ltd. Indalex Limited	Edmonton Calgary		
British Columbia:	Dickmond		
Alcan Aluminum Limited Bird Foundry Ltd. Globe Foundry Ltd. Pacific Aluminum Foundry Ltd.	Richmond 396 East 1st Around, Vancesvar New Westminster Burnaby		

### **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 purchased 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".





