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# MACHINE SHOPS 1965

# ANNUAL CENSUS OF MANUFACTURES

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# MACHINE SHOPS

# 1965

For statistical purposes this industry covers establishments primarily engaged in producing machine parts and equipment, other than complete machines, for the trade. It also includes machine shops providing custom and repair services.

The value of shipments of goods of own manufacture during 1965 was \$143,698,000 an increase of 21 per cent over 1964 shipments. During the same period the value of materials used increased by 23 per cent and production increased 22 per cent. The ratio of cost of materials used to production was 36 per cent in 1965 in comparison to 33 per cent in 1964.

Some of the principal products manufactured and reported by firms classified to this industry are tools, dies and jigs, rebuilt engines, conveyors, sawmill machinery, logging machinery, hoists, chain saw parts, transmission machinery; agricultural machinery, tanks, motor vehicle parts and valves.

# 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	ity	
Year and	Estab-		duction a		Cost of	Cost of	Value of shipments of goods	Value		owners	Empl	oyees	Value
province	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000	1			\$'000		\$'0	00
1961													
Totals	778	5,994	12,698	23,487	1,418	29, 242	77,442	47,092	508	2,009	7,756	31,741	48,600
1962													
Totals	813	6,697	14,420	27, 155	1,577	33,699	90, 960	56,135	532	2,185	8,603	36,576	57,662
1002													
1963	60.4	F 004	1	00.000		22 420	100 458	63,972	488	2,045	9,179	41,239	66,522
Totals	834	7,094	15,447	30,069	1,533	37,476	102,485	03,914	400	2,043	3,113	41,400	00,022
1964							200						
Newfoundland	2	}	15.4	07.4	15	413	791	344	x	x	79	337	356
Prince Edward Island	2	66	154	274	15	412	191	244	^	^	15	55 1	330
Nova Scotia	23	165	347	626	43	745	i,988	1,205	х	Х	211	780	1,291
New Brunswick	22	260	598	1,138	59	2,291	4,740	2,399	10	38	377	1,594	2,527
Quebec	220	2,191	5,037	9,412	466	11,279	31,147	19,643	151	656	2,742	12,496	19,724
Ontario	366	2,898	6,387	13,035	637	12,374	39,200	26,605	224	1,054	3,559	16,940	26,671
Manitoba	41	388	856	1,631	89	3, 124	7.129	4,061	27	94	513	2,435	4,045
Saskatchewan	26	87	188	341	31	462	1,305	814	24	104	108	444	862
Alberta	80	844	1,799	4,141	238	6,030	15,453	9,355	33	139	1,166	6,052	9,926
British Columbia	146	1,045	2,129	4,872	249	6, 402	16,652	10,077	57	241	1,382	6,636	10, 539
Yukon and Northwest Territories	-	-	-	-	-	-	-		-	-	-	-	-
Totals	928	7, 944	17,496	35,469	1,827	43, 120	118, 404	74,504	541	2,384	10, 137	47, 734	75,941
1965													
Newfoundland	2												
Prince Edward Island	3	65	146	247	16	637	1,100	457	Х	X	80	332	481
Nova Scotia	23	179	398	742	54	851	2,311	1,403	x	x	227	960	1, 421
New Brunswick	23	304	671	1,256	76	2,690	5,496	2,799	12	53	426	1,802	2,901
Quebec	223	2,474	5,716	11,281	552	13,759	37,471	23,562	129	619	3,140	15,223	23,582
Ontario	392	3,344	7,347	16,016	777	15,285	48,684	33,069	241	1,199	4,117	20,886	33, 315
Manitoba	44	444	968	1,916	110	3,919	8,316	4,428	27	93	580	2,849	4,445
Saskatchewan	30	142	303	556	48	1,039	2,603	1.540	19	89	192	798	1,645
Alberta	76	905	1,953	4,484	241	6,573	17,539	10,855	30	139	1,186	6, 243	11.720
British Columbia	141	1,268	2,588	6,367	295	7,947	20,177	12,308	44	223	1,670	8,701	13,087
Yukon and Northwest Territories	-	-	-	-	-	-	-		-	-	-	-	-
Totals	957	9, 125	20,089	42,864	2,169	52,699	143,698	90, 420	514	2,460	11,618	57,795	92,596

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

				Man	ufacturing	activity				Т	otal activ	vity	
Size group	Estab- lish- ments		duction a ated work		Cost of fuel and	Cost of	Value of shipments of goods	Value		owners	Empl	loyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000		·		\$'000		\$*(	000
1964													
Jnder \$10,000	70 176 190 206 130 119 35 11	30 192 553 1,191 1,367 2,316 1,500 795	60 383 1,117 2,499 3,007 5,149 3,448 1,832	78 607 2,056 4,845 6,026 10,658 7,067 4,132	16 93 180 299 321 476 286 157	111 951 2,232 4,200 6,117 11,772 9,641 8,096	504 3,041 7,149 14,506 18,437 32,852 23,742 18,172	378 2,003 4,749 10,065 12,103 20,891 14,102 10,213	65 173 159 100 36 8 —	196 637 722 552 229 48 —	37 232 698 1,496 1,824 2,865 1,917 1,068	92 731 2,595 6,194 8,439 14,183 9,498 6,002	388 2,022 4,941 10,288 12,788 21,100 14,241 10,160
Totals	928	7,944	17,496	35,469	1,827	43,120	118,404	74,504	541	2,384	10,137	47,734	75,94
1965													
Inder \$10,000	53 158 190 217 146 135 41 17	16 167 532 1,162 1,459 2,676 1,775 1,338	32 333 1,072 2,409 3,134 5,939 4.027 3,144	48 550 1,965 4,959 6,590 12,840 8,987 6,925	13 82 173 324 341 610 355 271	89 821 2,086 4,589 6,835 14,710 11,469 12,100	369 2,786 6,897 15,149 20,432 41,117 28,977 27,970	268 1,892 4,641 10,262 13,340 26,112 17,754 16,152	53 145 158 115 34 9	143 584 744 683 244 62 —	17 198 660 1,488 1,872 3,393 2,212 1,778	51 660 2,439 6,433 8,965 17,537 11,892 9,818	27: 1,93: 4,78: 10,56: 13,85: 26,70: 18,02: 16,46:
Totals	957	9,125	20.089	42,864	2.169	52,699	143,698	90,420	514	2,460	11,618	57, 795	92,50

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

				Mar	ufacturing	activity				- 7	otal acti	vity	
Size group	Estab- lish- ments		oduction a ated work		Cost of	Cost of	Value of shipments of goods	Value		owners	Emp	loyees	Value
	100	Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		1000			\$'000				\$*000		\$10	000
1964								1					
Under \$10,000	144 213 210 161 111 69 17 3	79 396 946 1,345 1,719 2,166 981 312	157 792 1,944 2,892 3,847 4,824 2,316 725	205 1,400 3,657 5,715 7,883 10,067 4,826 1,717	49 161 259 336 362 432 168 60	561 2,072 3,868 5,796 8,619 11,956 7,567 2,680	1,556 5,856 11,812 17,437 24,559 31,611 18,999 6,573	945 3,621 7,739 11,380 15,760 19,599 11,491 3,968	142 196 144 37 22 — —	451 788 754 263 128 —	94 500 1,174 1,823 2,168 2,687 1,272 419	238 1,768 4,559 8,049 10,568 13,418 6,679 2,456	958 3,763 8,023 12,187 15,814 19,830 11,414 3,952
Totals	928	7,944	17,496	35,469	1,827	43,120	118,404	74,504	541	2,384	10,137	47,734	75,941
1965	115												B
Under \$10,000	11 2 21 0 22 2 176 126 84 21 6	47 387 943 1,410 1,936 2,511 1,302 589	94 777 1,922 3,014 4,243 5,603 2,977 1,458	140 1,352 3,792 6,264 8,920 12,476 6,669 3,251	42 152 275 361 493 495 251 100	440 1,993 4,242 6,592 10,853 14,442 9,606 4,530	1,218 5,716 12,507 19,465 29,129 39,974 22,941 12,748	736 3,588 7,975 12,618 17,959 25,465 13,772 8,307	111 180 154 50 19 —	361 771 840 342 146 — —	52 475 1,185 1,832 2,503 3,120 1,641 810	155 1,669 4,797 8,468 12,326 16,762 9,028 4,588	745 3,746 8,157 13,307 18,457 25,833 14,015 8,334
Totals	957	9,125	20,089	42,864	2,169	52,699	143,698	90,420	514	2,460	11,618	57,795	92,596

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

				Man	ufacturing	activity			100	T	otal activ	vity	
Size group	Estab- lish-		oduction a ated work		Cost of	Cost of	Value of shipments		Working owners and partners		Employees		
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		0000			\$'000				\$'000		\$'0	00
1964													
Under \$10,000	142 206 213 157 119 71 17 3	76 368 939 1,249 1,820 2,199 981 312	151 735 1,929 2,681 4,070 4,891 2,316 725	198 1,291 3,613 5,301 8,284 10,239 4,826 1,717	49 149 253 309 400 440 168 60	547 1,982 3,803 5,188 9,193 12,159 7,567 2,680	1,531 5,577 11,704 16,313 25,767 31,940 18,999 6,573	935 3,441 7,705 10.853 16,381 19,729 11,491 3,968	139 192 149 39 22 —	443 768 776 269 128 — —	91 448 1,160 1,620 2,326 2,801 1,272 419	231 1,568 4,480 7,152 11,220 13,948 6,679 2,456	935 3,472 7,854 11,149 16,756 20,409 11,414 3,952
Totals	928	7,944	17,496	35,469	1,827	43,120	118,404	74,504	541	2,384	10,137	47,734	75,941
1965													
Under \$10,000	110 205 224 173 132 85 21	45 371 931 1,335 2,020 2,492 1,231 700	90 745 1,899 2,838 4,429 5,569 2,823 1,697	132 1,290 3,735 5,924 9,266 12,420 6,296 3,801	41 145 276 325 509 510 246 116	431 1,953 4,224 6,037 11,099 14,531 9,074 5,349	1,193 5,541 12,458 18,456 29,917 39,861 21,753 14,520	722 3,450 7,941 12,139 18,543 25,209 13,233 9,184	109 178 156 51 20 —	357 749 852 350 153 —	50 445 1,169 1,710 2,596 3,111 1,593 944	147 1,553 4,716 7,868 12,748 16,781 8,716 5,266	722 3,493 8,053 12,430 19,078 25,947 13,312 9,562
Head offices, sales offices and auxiliary units							4 9 9						
Totals	957	9,125	20,089	42,864	2,169	52,699	143,698	90,420	514	2,460	11,618	57, 795	92,596

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

				Maa	nufacturing	activity					Fotal acti	vity	
Size group	Estab-		oduction lated wor		Cost of	Cost of	Value of shipments	***		owners artners	Emp	loyees	
	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			100			1	-	1					
Under 5 employed	363 362 168 30 5	443 2,188 3,319 1,510 484	892 4.643 7,388 3,479 1,094	1,580 9,091 15,169 7,076 2,553	216 566 679 278 88 —	2,817 9,228 17,544 9,669 3,862	8,329 28,865 47,702 24,258 9,250	5,313 19,151 29,966 14.626 5,447	341 187 13 — — —	1,301 1,009 73 - -	2,539 2,770 4,188 1,995 645 —	1,932 11,861 20,385 10,007 3,550	5,338 19,571 30,525 15,158 5,348
auxiliary units				* * * *		* * *	4 4 4	4	0.0.0	* * *	***		
Totals	928	7,944	17,496	35,469	1,827	43,120	118,404	74,504	541	2,384	10,137	47,734	75,941
Under 5 employed	344 378 192 34 9	449 2,256 3,809 1,696 915	908 4,749 8,363 3,906 2,163	1,623 9,788 18,150 8,342 4,960	232 596 835 340 167	2,869 10,082 21,001 12,876 5,870	8,524 31,341 57,639 30,015 16,179	5,436 20,703 36,274 17,572 10,435	318 180 16 - - -	1,295 1,055 110 — — —	529 2,876 4,802 2,203 1,208	1,971 12,882 24,543 11,694 6,704	5,489 21,127 37,166 18,084 10,729
Totals	957	9,125	20,089	42,864	2,169	52,699	143,698	90,420	514	2,460	11.618	57,795	92,596

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

				Man	ufacturing	activity					Total acti	vity	
Type of organization	Estab-		oduction ated work		Cost of	Cost of	Value of shipments			owners	Empl	oyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000				\$'000		\$'(	000
1964													
Individual ownerships	319	781	1,623	2,916	243	3,711	10,817	6,867	324	1,456	848	3,111	6,939
Partnerships	104	326	679	1,258	116	1,551	5,072	3,399	217	928	358	1,355	3,513
ncorporated companies	505	6,837	15,194	31,296	1,468	37,858	102,515	64,237			8,931	43,268	65,489
Co-operatives	-	_	_	_	_	_	_	_	***		_		-
Head offices, sales offices and auxiliary units				* * * *				***					
Totals	928	7,944	17,496	35,469	1,827	43,120	118,404	74,504	541	2,384	10,137	47,734	75,941
1965													
individual ownerships	311	804	1,663	3,118	264	3,872	11,385	7,245	309	1,477	882	3,361	7,371
Partnerships	97	319	668	1,278	120	1,660	5,334	3,559	205	983	348	1,380	3,642
Incorporated companies	549	8,002	17, 758	38,468	1,785	47, 167	126.979	79,616			10,388	53,054	81,584
Co-operatives	_	_	_	_	_	_	-	_			_	_	_
Head offices, sales offices and auxiliary units				* * *			* * *						
Totals	957	9, 125	20,089	42.864	2,169	52,699	143,698	90,420	514	2 460	11,618	57,795	92, 596

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

	Manufact activi		Non-manufa activiti		Tota activi	
	1964	1965	1964	1965	1964	1965
			\$'000	)		
Output						
1. Shipments and other revenue	118,404	143, 698	7,136	8,827	125,540	152,52
Inventories - Goods of own manufacture:						
Add closing - Goods in process	2,997	4,249	• • •		2,997	4,249
Finished goods	1,970	2,739	***	• • •	1,970	2,739
Deduct opening - Goods in process	2,403	3,108	• • •	• • 1	2,403	3,108
Finished goods	1,517	2,290	•••	•••	1,517	2,290
2. Net inventory change	1,047	1,590	• • •	• • •	1,047	1,590
3. Gross output (1+2)	119,451	145,288	7,136	8,827	126,587	154, 113
Input						
4. Purchases of goods not of own manufacture			4,986	5,753	4,986	5,75
Inventories - Goods not of own manufacture:						
Add opening		***	1,137	1,413	1,137	1,413
Deduct closing	***		1,225	1,495	1,225	1,49
5. Cost of goods sold (not of own manufacture)			4,898	5,671	4,898	5,67
5. Materials, supplies, etc.	43, 120	52,699	801	982	43,921	53.68
7. Fuel and electricity	1,827	2,169		***	1,827	2,16
3. Gross input (5 + 6 + 7)	44,947	54,868	5,699	6,653	50,646	61,52
Value added (3 ~ 8)	74, 504	90,420	2,437	2,174	75,941	92,59

TABLE 8. Employment and Payroll, 1964 and 1965

					Employ	yees				10 P		Salari	es and wa	iges	
Year and		Product related			Admi		Sal	les nd	To	tal	Producti	on and	Admin-	Sales	
province	Manufac	cturing	0	her	and o		distril		10	tai	related w	orkers	istra- tive and	and distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
					numb	er							\$'000		
1964								1		1					
Newfoundland	65	1	-	-	11	2	_	-	76	3	274		63	-	33'
Nova Scotia	164	1	-	-	25	12	9	_	198	13	626	_	147	27	80
New Brunswick	260	-	_	_	66	25	22	4	348	29	1,138	_	349	108	1,59
Quebec	2,171	20	_	-	378	117	54	2	2,603	139	9,412	_	2,785	300	12,49
Ontario	2,845	53	1	3	425	186	41	5	3,312	247	13,035	9	3,669	226	16,94
Manitoba	386	2	_	-	81	19	23	2	490	23	1,631	-	647	158	2,43
Saskatchewan	87	-	_	_	14	4	3	-	104	4	341	-	86	18	44
Alberta	843	1	28	-	199	59	34	2	1,104	62	4,141	143	1,562	205	6,05
British Columbia	1,038	7	2	-	216	72	43	4	1,299	83	4,872	7	1,525	233	6,63
Yukon and Northwest Terri- tories	_		_	_		-	400	_	_	-			_	-	_
Totals	7, 859	85	31	3	1,415	496	229	19	9,534	603	35, 469	159	10, 832	1, 274	47, 73
1965	- 191														
Newfoundland	} 65	_	_	_	12	3	_	_	77	3	247		85	-	33
Prince Edward Island	}								210		E40		004		000
Nova Scotia	179				31	14	3	5	213	14	742	_	204 436	14	96 1,80
New Brunswick	304		1	_	73	24	19	2	397	170	1,256	4	3.572	371	15.22
Quebec	2,458			-	451	152	54	3	2,970 3,825	292	11, 281 16, 016	11	4,551	309	
Ontario	3,282		_	4	489	223	24	2	554	26	1,916		776	157	2,84
Manitoba	443				87	23	4		180		556	_	218	23	79
Saskatchewan	142		_	-			28		1.132		4,484	_	1.553	207	
Alberta	904		10		200	94	62	4	1,132	109	6,367	88		355	.,
British Columbia	1,257	11	18		224	94	02	4	1,001	109	0,501	00	1,002	000	0,10
tories	-	-	-	****	-	_	-	-	_	_	-	_	_	-	-
Totals	9, 034	91	19	4	1,601	597	255	17	10,909	709	42,864	103	13, 286	1,542	57, 79

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

	196	4	196	5
Month	Male	Female	Male	Female
		numbe	er	
Establishments reporting monthly detail (large establishments only):				
January	6,120	83	7,206	64
February	6,265	84	7,264	72
March	6,369	82	7,330	72
April	6, 421	81	7,472	80
May	6, 478	83	7,517	86
June	6,592	89	7,589	83
July	6,560	81	7,563	98
August	6,559	82	7,583	93
September	6,464	84	7,594	100
October	6,391	84	7,604	105
November	6,483	89	7,666	100
December	6,407	85	7,659	93
Averages	6,470	82	7,515	86
Statishments reporting annual averages (small establishments only)	1,389	3	1,519	5
Average for all establishments	7,859	85	9,034	91

TABLE 10. Inventories, 1965

		Manufa	cturing		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	Total inventories
Opening:	1		book value	\$'000	1	
	)					
Newfoundland Prince Edward Island	133	3	-	136	8	144
Nova Scotia	201	42	10	253	15	267
New Brunswick	538	92	62	692	207	899
Quebec	2,276	917	808	4,001	88	4,089
Ontario	2,067	1,207	400	3,675	132	3,807
Manitoba	731	176	204	1, 111	_	1.111
Saskatchewan	487	37	102	626	109	735
Alberta	1,329	417	433	2,178	390	2,568
British Columbia	1,191	219	271	1,681	463	2,144
Yukon and Northwest Territories		-	-	_	_	
Totals	8, 953	3, 108	2,290	14, 351	1,413	15, 764
Closing:						
Newfoundland	]	13		212		212
Prince Edward Island	200	13		212		6.14
Nova Scotia	256	37	12	305	22	327
New Brunswick	649	142	80	872	218	1,096
Quebec	2,596	1,356	770	4,722	97	4,819
Ontario	2,450	1,677	377	4,504	171	4,67
Manitoba	720	136	385	1,240	4	1,245
Saskatchewan	546	62	101	709	98	801
Alberta	1,505	518	460	2,483	378	5,80
British Columbia	1,318	308	554	2,180	507	3,620
Yukon and Northwest Territories	_	-	-	-	_	-
Totals	10, 239	4, 249	2,739	17, 226	1,496	18, 12

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	959	15	826	12
(b) Imported	24	327	5	186	3
Sub-bituminous coal (from Alberta mines only)		137	2	141	1
Anthracite coal		280	6	195	4
Lignite coal	44	102	1	67	1
Coke	48	36	1	110	3
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	930,866	361	1,073,230	447
Fuel oil including kerosene or coal oil	42	1, 194, 692	198	1,393,620	228
Wood	cord	125	1	198	1
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	31,989	8	28,497	9
(b) Other manufactured gas	M cu. ft.	-	_	-	_
(c) Natural gas		268,768	159	362,172	211
Other fuel			7	4 4 4	
Electricity purchased	kwh.	27,917,479	635	35,461,956	761
Steam purchased	****		1		1
2. Small establishments not reporting commodity detail:			100		
Estimate for fuel and electricity		• • •	427		485
3. All establishments:					
Total fuel and electricity used	.,	***	1, 827		2, 169

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

Description	Cost	
	1964	1965
	\$'000	
. Raw materials and components used	38,886	47,706
. Containers and other packaging materials and supplies used	276	257
. Operating, maintenance and repair supplies used (excluding fuel)	2,773	3, 322
. Amount paid out to others for work done on materials owned by establishments	1,184	1.413
Totals	43, 120	52, 699

No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$5,916,926 in 1964 and \$6,750,217 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	Value	
	1964	1965
	\$'000	
. All products manufactured	55,214	74,017
2. Amount received in payment for work done on materials and products owned by others	63, 685	70,555
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(495)	(875)
Net adjustment for establishments receiving progress payments	-	-
Total adjusted value of shipments and work done	118, 404	143, 698

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

these not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry.

Name	Location
Newfoundland:	
Fry's Engineering Co. Ltd. Hall Metals Ltd.	25 Springdale St., St. John's Water St. E., St. John's
Prince Edward Island:	
Hail and Stavert Ltd.  Jardine's Machine Shop  Waller's Machine Shop	49 Pownal St., Charlottetown Georgetown 203 Great George St., Charlottetown
Nova Scotia:	
Annand, C.A. Ltd. Antigonish Machine Shop Ltd. Atlantic Spring and Machinery Co. Ltd. Collings (Wm.) & Sons Ltd. Dartmouth Machine Co. Ltd. Dickle, L.G. Machine Shop Digby Forging and Machine Co. Ltd. Pader Agencies Ltd. Falmouth Machine Shop Gateway Engineering Ltd. Hamilton & Porter Howle's Machine Shop Maritime Cylinder Grinding Co. Ltd. McLellan's Machine Shop. Nova Automotive Machine Co. Shaw and MacDonald Ltd. Sjoberg, Carl Machine Shop Stellarton Machine Shop Stellarton Machine Shop Stellarton Machine Shop Stellarton Machine Shop Tremaine's Welding & Blacksmith Shop Tremine's Welding & Blacksmith Shop Trin City Engine Rebuilders Webb Engineering Ltd.	442 Queen St., Truro Antigonish King's Rd., Sydney 2095 Barrington St., Halifax i Parker St., Dartmouth Stewiacke First Ave., Digby 83 Shore Rd., Dartmouth 2549 Dutch Village Rd., Halifax Falmouth 83 Water St., Yarmouth 2 Forest St., Yarmouth 57 Water St., Glace Bay 5447 Rainnie Dr., Halifax Lower Onslow 15 Waddell St., Dartmouth Liverpool 51 South St., Glace Bay Meteghan Centre MacKay St., Stellarton 58 Elm St., Bridgewater 2451 Maynard St., Halifax 1959 Upper Water St., Halifax
New Brunswick:	
Apex Machine Works Ltd. Atlantic Engine Rebuilders Ltd. Belanger's Machine Shop. Brewster, Donald T. Machine Shop. Castle Machine Works	181 Pacific Ave., Moncton 12 Ray Brown St., Moncton Sheriff St., Grand Falls 14 Reserve St., Saint John Newcastle

Location Name New Brunswick - Concluded: Hartland
140 Canada St., Marysville
379 St. Patrick St., Bathurst
503 Victoria St., Edmundston
877 Union St., Fredericton
162 King St., Fredericton
328 King St., Moncton
329 King St., Eredericton
224 Main St., Sussex
Grand Falls
Bristol
211 Unner Water St. Craig's Machine Shop Ltd. Duval Industrial Machine Works
Edmundston Machine Shop.
Engine Machine Shop & Supply Ltd.
Predericton Welding and Machine Shop
Gauvin Engine Rebuilders
Horsnell Machine and Iron Works Ltd.
Kelso, Wm. W. and Sons Ltd.
Laforge Machine Shop
Meed's Machine Shop Ltd.
Miramichi Foundry Machine Works Ltd.
Moncton Foundry and Machine Co. Ltd.
Richard, Machine Shop.
Robertson's Machine Shop.
Shediac Garage and Machine Shop.
Stephenson, E.S. & Co. Ltd.
Williamson, J. Fred Limited 211 Upper Water St., Chatham 175 Beaverbrook, Moncton Riverview Shediac 15 Dock St., Saint John Bridge St., Saint John Williamson, J. Fred Limited

Juebec:
A. Drol and Die and Mfg. Co. Reg'd.
A. One Machine Tool.
A. One Machine Tool.
A. One Machine Tool.
A. One Machine Tool.
A. Albon Welding and Mechanical Works Ltd.
Albon Welding and Mechanical Works Ltd.
Amos Machineries (1960) Inc.
Arell Machining Ltd.
Assol Precision Products Ltd.
Assolin, Lucien
Atelier de Soudre Generale Enr.
Atelier des Goudre Generale Enr.
Atelier Mecanique Inc.
Atelier Mecanique Inc.
Atelier Mecanique Ernest Paul.
Audel, Rober Meriding Co. Ltd.
B. R. S. Tools G. Co.
Beauce Machine Shop Enr.
Beaudry Machine Shop Enr.
Beaudry Machine Shop D.
Bedard, F. X.
Belanger, Gilles
Beflanger Machine Shop Enr.
Bernatchez Machine Shop Enr.
Bernatchez Machine Shop Enr.
Bernatchez Machine Shop D.
Brouse Machine Shop Enr.
Bernatchez Machine Shop Enr.
Bernatchez Machine Shop Enr.
Bernatchez Machine Shop Enr.
Bowers Machine Shop Enr.
Bowers Machine Shop Enr.
Bowers Machine Shop Enr.
Bowers Machine Co. Ltd.
British American Machine Co.
Brousseau, Rolland.
Comenseau, Rolland.
Causapseal Machine Shop Enr.
Chambly Machine Works Ltd.
Chaham Machine Parts Ltd.
Cometal Inc.
Clitch, Jos. et Fils Ltde
Controles Hydrauliques Sept-les Ltde
Cloutier Machine Shop Enr.
Crammond and Son Limited
Cranshaft Grindring & Diesel Service Inc.
Crawford Machine Shop.
Desprès, Alfred Inc.
Dectson Manufacturing Co. Ltd.
Difalco, P. and Co.
Dion, Yvon Equipment.
Docal Limited
Dorbeau Cranshaft Ltde
Dominion Tool Works
Drout, Noel
Dubch, Aurèle
Dubch Aurèle
Dubch Machine Shop.
Bester Mendine Shop.
Bester Townships Machine Works Ltd.
Bester Townships Machine Shop.
Berrick Mendine Shop.
Berrick Mendine Shop.
Berrick Mendine Shop.
Berrick Mendine S Quebec: 2381 des Carrières St., Montreal A.B.C. Tool and Die and Mfg. Co. Reg'd. ..... 8628 - i0e Ave., Ville St-Michel 6031 Denormanville St., Montreal 10223 Armand Lavergne St., Montreal 212 lere Ave. E., Amos 3737 Metropolitan Blvd. E., Montreal 556 Sebastepol St., Montreal St. Gervais Rivière-du-Loup 85 rue de Castelneau Montréal Princeville Pike River St-Joseph-de-Sorel St-Tite-des-Caps 4809 Henri Julien St., Montreal 4809 Henri Juhen St., Montre Ville St-Michel 2195 Ekers Ave., Montreal Ville St-Georges 733 St-Antoine St., Jolietta 440 rue du Roi-est., Queboa Ste-Anne-de-la-Pocataire Amos St-Félix-de-Valois St-Félix-de-Valois
159 rue Michaud St-Gabriei-de-Brandon
1591 prébeuf St., Montreal
1860 St. Lawrence Blvd., Montreal
1920 rue Leber, Montréal
1850 Lacordaire, Montréal
1855 t. Paul St. W., Montreal
Causapscal
2125 Ward St., Ville-St-Laurent
9825 Verville St., Montreal
St-David St-David 12 Michaud St., Lac Mégantic 12 McChaud St., Lac Megantic Sept-fles Cap-de-la-Madeleine 4865 Dagenais St., Montreal 820 Notre-Dame St. W., Montreal 998 Wellington St., Sherbrooke Campbell's Bay 2955 Sartelon St., St. Laurent 7926 - 15e Ave., Ville St-Michel Luceville 1405 St. James St. W., Montreal Barraute 66 rue St-André, Québec Sherbrooke 4401 LaFrance Lane, Montreal 25 St-Christophe, Matane 720 Marin Ave., Montreal Dolbeau 121 St. Denis St., St-Lambert 121 St. Denis St., St-Lamberr St-Maxime Scott 7625-18e Ave, Ville St-Michei 565 rue des Ormeaux, Montréal 278, rue Champlain, St-Jean 106 Elizabeth St., Bedford 106 Elizabeth St., Bedford Sherbrooke 2554 des Carrières St., Montreal 2405 Ville-Marie St., Montreal 820 Liège St., Montreal 1535 Gladstone St., Montreal 6391 St. Lawrence Blvd., Montreal Napierville Ste-Dorothé-de-Laval 185 Laval St., Granby Ville St-Michel 8014 - 16e Ave. Ville St.-Michel

Name	Location
Quebec - Continued:	
Gagné Machine Shop	2750 Rozel St., Montreal
Gatineau Machine Shop	Gatineau
Gendron et Frères Enr. General Machine Works Limited	149 Fraserville St., Rivière-du-Loup 911, rue Jeanne-Mance Montreal
General Machine Works Limited	Longueuil
Gingras et Charest Enr.	550, rue Ste-Hélène, Québec Lachute
Gordon Machine Shop	249 St. Alexander St., Longueuil
Handy Machine Shop and Supply, Ltée	Pont-Viau
Harrington Tool & Die Co. Ltd. Henrichon, Lucien	735-755-1st Ave., Lachine St-Gabriel-de-Brandon
Hochelaga Tool & Die Inc.	4325 Industrial Blvd., Montreal-Nord
Hooker's Machine Works and Foundry	Glenelm, Huntingdon Co. St-Georges-Est
Huot, S. Inc.	990 rue Ste-Thérèse, Québec
Iberville Machine Shop	Iberville Name
Industrial Machining Limited Industrial Weiding and Machine Work Ltd.	3650 St. Joseph Blvd. E., Montreal Noranda
International Machine Works Ltd.	3664, rue Sabrevois, Montreal-Nord
J. P. Industries Ltd.	3100 Rouen St. E., Montreal 2585 Charlemagne St., Montreal
Jacques Precision Works Ltd. Joly Engineering Ltd.	8945 Park Ave., Montreal
Joyal Machine Shop	75, rue St-Albert, Drummondville
Jude Tooling and Machining Co	679 St-Remi St., Montreal 1159-1161 William St., Montreal
Labbé & Frère	Sherbrooke
Lachapelle Machine Shop Enr.	124 St-Joseph St., Terrebonne
Lafiamme, René, Subsidiaire  La Fonderie Ouellet Enr.	St-Jean St-Léonard-d'Aston
La Fonderie "Universal" Enr.	Victoriaville
Langevin, Gérard Machine Shop	2050 Charlemagne St., Montreal
Lapointe et Bélanger Ltée	1329 Route Nationale, Ancienne-Lorette Métabetchouan
La Soudure de Thetford	Thetford Mines
Laurentian Metal Products Co. Ltd.  Laval Machine Shop Ltee.	40 Montcalm St., Hull Pont-Viau
Leader Products Co. Ltd.	95 St-Zotique St. W., Montreal
LeBel Machine Works Reg'd.	Lachine
Leclerc, N. & Sons Inc. Leclebyre & Frères Ltd.	11243 Victoria St., Montreal E. 790 de Bullion St., Montreal
I mire, Viateur	St. Bruno, Guiges
Les Ateliers Blais de Thetford Inc.	Thetford Mines Roberval North
Les Ateliers Méchaniques Enr. Les Industries de Mont-Laurier	Mont-Laurier
Les Industries Maniwaki Enr.	Maniwaki
Les Industries Saguenay Ltée Les Pompes Cartier Enr.	Port Alfred 435, rue Dollard, Joliette
Les Produits d'Acier V. Ledoux Ltée	480, Ave. Brodeur, St-Hyacinthe
Lessard Machineries Enr.	St-Wenceslas
Lévesque, J. S. Machine Shop M & C Machine Shop	Rivière-du-Loup 2101-21st Ave., Laval
Machine Industries Ltd.	Longueuil
Machine Repair and Maintenance Ltd.	2130 Bleury St., Montreal 38 St. Henri, Lévis
Machinerie Lévis Enr.  Machine Shop Lévis Létourneau, Enr.	390 - 3e rue. Québec
Muchine Shop St. Marc	Shawinigan
Machine Works Limited	9601 Bivd. St-Laurent, Montreal 8420-9e Ave., Ville-St-Michel
Mailhot Hydraulic Inc.	St-Jacques-de-Montcalm
Maisonneuve & Frères Enr.	9917, rue Cobourg, Montreal-Nord
Malo, A. Cie., Liée Marcoux A. Machine Shop	Joliette Ste-Adèle-en-bas
Massicotte & Arcand Inc. Materials Engineering Co. Ltd.	Cap-de-la-Madeleine
Materials Engineering Co. Ltd.  Matte, Gaston	St. Lambert 578 Kitchener St., LaTuque
Ménard Alfred	391, rue Ste-Anne, Chicoutimi
Metro Automotive Mfg. Ind,	6405 St. Lawrence Blvd., Montreal 10627, rue Ste-Gertrude, Montréal-Nord
Metropolitan Machine Works Reg'd.  Metro Engineering Co. Ltd.	Ville-St-Pierre
Mi-Co Meter Sales & Service Ltd.	17 Levis St., Longueuil
Miller Bros, and Sons Ltd. Miller Bros, Reg'd.	45 Seigneurs St., Montreal Gaspé Harbour
Mining Machinery and Equipment Ltd.	Noranda
Modern Machine Industry Ltd.	445, boul. Guimond, Ville-Jacques-Cartier
Modern Machine Shop	60 Daihousie, Huntingdon 2875 Hochelaga, Montreal
Monarch Punch and Die Co. Ltd.	3594 Jarry St., E., Ville-St-Michel
Mont-Joli Machinerie Ltée	126 Aubin St., Mont-Joli 5270 Arnold St., Montreal
Montreal Materials Processing Co. Ltd.  Montreal Mechanical Enterprise Co. Ltd.	1561 Papineau St., Montreal
Montreal Screw Machine Products Ltd.	957 Amherst St., Montreal
Morin, Clément	Rivière-du-Loup Cartier Ave., La Guadeloupe
Morin Frère Ent. Morris, F. L. Machine Shop	72 Denison Ave., Granby
Nordale Metalcraft Ltd.	35 Cartier St., Sherbrooke
North Precision Enr. Notre Dame Tools & Dies Machinery Shop.	10156 London St., Montreal North 2730 rue Desautels, St-Hubert
Oneilet et Laberge Ltée	I16 Christophe Colomb Ave., Quebec
Papineau Machine Shop	Ville-St-Michel
Paquin, Alph. & Fils.  Paramount Machining Reg'd.	Joliette 460 St. James St., Ville-St-Pierre
Pare, Lucien Machine Shop	St-Théodore
Parent, Pietre	Ste-Agathe-des-Monts

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

Québec - Concluded:  Parent Tool and Machine Paris Paralison Machine Co. Lid.  Lachate Paralison Machine Co. Lid.  Lachate Paralison Machine Co. Lid.  Poulli, J. E. Reyd.  Poulli, J. E. Reyd.  Precision Industries Reyd.  Thresion Industries Reyd.  Provincher, J. A. et Pila Provincher, J. Randine Works 1.00.  Quebec Tools and Machine Works 1.00.  Provincher, J. J. Lack Section Works 1.00.  Rapid Steel and Brass Products Co.  Rapid Steel Archards Rapid Steel and Rapid Steel Archards Rapid Steel Archards Rapid Steel Archards Rapid Steel Archards Rapid Steel Rapid Rapid Steel Rapid Steel Rapid Rapid Steel Rapid Rapid Steel R	Name	Location
Partier Tool and Machine Parts  Paulson Machine Co. Ltd.  Paulson Machine Co. Ltd.  Paulson Machine Stop Part.  Stop Watcheld St., St-Léonard-de-Port-Maurice Prince-ville Machine Stop Part.  Precision Industries Reg 'd.  Prince-ville Princ	Québec - Concluded:	
Pauls Machine Co. 1.64  Plants Machine Shop Pair.  SSP Machine Sh. St.Léonard-de-Port-Maurice Precision Industries Regid.  Princeville Machine Shop Inc.  Princeville Machine Shop Inc.  Provers. Education Endustries Regid.  Regide Machine Shop End.  Regide R		Jacques-Cartier
Poulin, J. F., Reg for Precision Industries Reg d	Paulson Machine Co. Ltd.	Lachute
Precision Industries Regd.  Princevilla Machine Stop Inc.  Princevilla Machine Stop Inc.  Princevilla Machine Stop Inc.  Provense, Education.  Reg Weilington St., Sherbrooke  Roy Machine Stop Inc.  Ray Machine Stop I		
Princeville Machine Shop Inc.  Provis, A. or will a provise of the	Precision Industries Reg'd.	
Provence, Racoll Provence, Educate Machine Works Ltd.  Quemeville, Isaté Inc. Ray Machine Stop Inc. Ray	Princeville Machine Shop Inc.	Princeville
Provost Édouard Ocenne Flut, 1887 fac.  Rainville, Georges Machine Shop Bat.  Remembrance Machine Shop Regd.  Remembrance Machine Shop Lid.  Remembrance Machine Shop Bat.  Remembrance Machine		
Genereville, Balé Iné. Rainville, Gorges Machine Stop Ent.  Iniville Ray Machine Stop Inc. Ray James Machine Stop Red. Rinousaly Transfer Machine Stop Led. Ray James Machine Stop Red. Ray James Machine Stop Red. Ray James Machine Stop Inc. Ray Machine Stop Inc. Ray James Machine Stop Inc. Ray	Provost, Edouard	800 Wellington St., Sherbrooke
Rainville, Georges Machine Shop But. Rapul Steel and Brass Products Co.  10137 London Ave., Montreal North Rapul Steel and Brass Products Co.  10137 London Ave., Montreal North Rapul Steel and Rapul Steel Rapul Ste		
Rapid Steel and Brass Products Co.  Ray Machine Stop Inc.  Stop In		
Remeinbrance Machine Shop Rer'd.  Rinoushi Transfer Machine Shop Lid.  88 B-Pierre St. Himosaki Markan Rer'd.  Rule. J. R.  81. J. R.  81. J. R.  81. J. R.  82 S-Pierre St. Himosaki Markan Ma	Rapid Steel and Brass Products Co.	
Rimouski Transfer Machine Shop Ltd.  18 SeP-jerre St., Rimouski 1110-12th Are, Montreal 2118-12th Are, Montreal 3118-12th Are, Montreal 3118-12th Are, Montreal 3118-12th Are, Montreal 3118-12th Are, Montreal 3128-12th Are, Montreal 3278-12th Are,		
Rite Manufacturing Lid Red. J.R. Red. J.R. Red. J.R. Seroch Machine Shop Enr. Seroch Machine Shop Shop Shop Shop Shop Shop Shop Shop		
St. John's Tool and Die St. Roch Machine Shop Ent. Slones Machine Shop Ent. Slones Machine Shop Ent. Slones Machine Shop Ent. Slones Machine Shop Shawingan Shawing	Rite Manufacturing Ltd.	5110-12th Ave., Montreal
Si-Roch Machine shop Ent.   490, true de l'Église, québec   30 Mar. Tessier St. W. Rouyn   30 Mar. Tessier St. W. Rough		
Salonen Machine and Repair Shop Sansouvy, B. Life Senseture Machine Shop Sicotte Sico		
Senneterre Machine Shop Shawingan Machine Shop Shawingan Machine Shop Shawingan Machine Shop Shawingan Machine Shop Sicotte, Paul & Pils Life IT, ue Dabols, SterThrefen Capade-la-Madeleine Copied-la-Madeleine Copied-la-Madelei	Salonen Machine and Repair Shop	59 Mgr. Tessier St. W., Rouyn
Shawinigan Machine Shop Ld.  Sicotte Machine Shop Ld.  Sicotte Paul & Pilz Lée  Capde-la-Mainteine  Simpler Piston Ring Services Ltd.  Société Industrielle de Décoletage & d'Outiliage Liée  Simpler Piston Ring Services Ltd.  Société Industrielle de Décoletage & d'Outiliage Liée  Simpler Piston Ring Services Ltd.  Société Industrielle de Décoletage & d'Outiliage Liée  Spacour, Anéland Léfe  Spacour Simpler Piston Ring Services Ltd.  Société Industriel Ld.  Spacon Industries Ltd.  Spacon Industries Ltd.  Spacon Industries Ltd.  Steel Plange Manufacturing Co. Ltd.  Steel Plange Manufacturing Co. Ltd.  Steel Plange Manufacturing Co. Ltd.  Ta Machine Shop Ent.  Tanguay, Auto Jack Hospital  Technical Accessories Ltd.  Tanguay, Auto Jack Hospital  Technical Accessories Ltd.  Technical Accessories Machine Reg'd.  Spacourage Company  Tilly La Captage Machine Reg'd.  Spacourage Company  Tilly La Captage Space Reg'd.  Tilly La Captage Space Reg'd.  Tilly La Captage Space Reg'd.  Space Reg'd.  Space Reg'd.  Touthor Processor Space La Captage Reg'd.  Touthor Processor Space Reg'd.  Touthor Processor Space Reg'd.  Touthor Processor Space Reg'd.  Touthor Processor Space Reg'd.  Touthor Processor Reg'	Sansoucy, B. Ltee	
Sicotte Machine Shop Ltd.  Sicotte Paul & Fills Ltde Sizena Ltde S		
Signam Life Simplex Piston Ring Services Ltd. Société Industrielle de Décolletage & d'Ouillage Life Constitution of the Consti		10563, rue L'Archevêque, Montreal-Nord
Simplex Piston Ring Services Ltd.   2009 St. James St. W., Montreal Souriet Audistrielle de Décollètage & d'Outiliage Liée   St. Souriet Moustriel Ltd.   2016 No.	Sicotte, Paul & Fils Litee	
Société Industrielle de Décolletage & d'Outillage Life Souvy, Aréjard Life Tarégard Life Tarégard Life Trehodyne Company Tilly, L. Tool and Machine Reg'd. Tototier, A. and Fils Life Trototier, A. and Fils Life Trototier, A. and Fils Life Trototy, A. and Fils Life Trototy Life Tr	Simplex Piston Ring Services Ltd.	2009 St. James St. W., Montreal
Soudure Industries Life   Sparcon Industries Life   Laching Sparcon Industries Life   Laching Sparcon Industries Life   Laching Sparcon Industries Regid   Stafforme	Société Industrielle de Décolletage & d'Outillage Ltée	
Spaced Industries Ltd. Speedway Machine Works (Limited Steel Plange Manufacturing Co. Ltd. Steel Plange Manufacturing Co. Ltd. Steel Plange Manufacturing Co. Ltd.  Taguay, Auto Jack Hospital Technolyne Auto Jack Hospital Technolyne Company Tilly, L. Fool and Machine Reg*d. Tilly Dependent Reg*d. Tilly Dependent Reg*d. Tilly Dependent Reg*d. Tilly Dependent Reg*d. Tilly, L. Fool and Machine Stop Reg*d. Tilly Dependent Reg*d. Tilly D		
Speedway Machine Works		
Stewart Machine Works Limited   Noranda   Sunset Industries Reg d	Speedway Machine Works	
Sunset Industries Reg*d.   2275 Jeanne d'Arc St., Montreal   Tac Machine Shop Ent.   Tanguay, Auto Jack Hospital   34 Bourget St., Montreal   Technical Accressories Ltd.   3585 Fullum St., Montreal   10445 St. Lawrence Blby M. Montreal   1074 St. Lawrence Blby M. Montreal   1075 Per Scretce St., Montreal   1075 Per		
Tanguay, Auto Jack Hospital Tanguay, Auto Jack Hospital Technical Accessories Ltd. The Discourage Company Tilly, L. Tool and Machine Reg'd. Transmission Specially Ltd. Transmission Specially Ltd. Transmission Specially Ltd. Tremblay, Vincent Inc. Trottier, A. and Fils Ltée Dobbeau Laprairie Trudeau, G. Turbo Precision Industries Ltd. Universal Die and Tool M'g. Ltd. Universal Die and Tool and Machine Shop Reg'd. Universal Die and Tool and Machine Co. Ltd. Universal Die and Tool Die and Tool One Accurate Shop Repairs Ltd. Universal Die and Tool Die and		
Technotyne Company Ville St-Pierre Tilly, L. Tool and Machine Reg"d. 10045 St. Lawrence Blvd., Montreal Trahan Machine Shop. 641-7th Ave., Grand Mere Transmission Specialty Ltd. 5522 Paphreau St., Montreal St. Temblay, Vincent Inc. 1655 Letoumeaux St., Montreal Tromblay, Vincent Inc. 1655 Letoumeaux St., Montreal Laprative L	Tac Machine Shop Enr.	
Technodyne Company   Ville St-Pierre   10045 St. Lawrence Bivd., Monitreal   Trahan Machine Shop.   641-7th Ave., Grand*Mère   5529 Papineau St., Montreal   717-750   718-750	Tanguay, Auto Jack Hospital	
Tilly, L. Tool and Machine Reg'd.	Technodyne Company	Ville St-Pierre
Transmission Specialty Ltd.  Tremblay, Vincent Inc.  1655 Letourneaux St., Montreal  170ttier, A. and Pils Ltde  Trudeau, G.  Trudeau, G.  Trudeau, G.  Trube Precision Industries Ltd.  Universal Die and Tool Mig. Ltd.  Valief Machine Parts  Vile Jacques-Cartier  Verdun Machine Shop.  Vilety Tool and Machine Co. Ltd.  Victory Tool and Machine Co. Ltd.  Victory Tool and Machine Co. Ltd.  Vilety Machine Shop & Repairs Ltd.  Vilety Machine Co. Ltd.  Vilety Machine Shop & Repairs Ltd.  Vilety Machine Shop & Machine Shop & Machine Co. Ltd.  Vilety Machine Shop & Machine Shop & Noronto Shop & Machine Shop & Noronto Shop & Washing Shop & Noronto Shop & Washing Shop & Noronto Shop & Washing Shop & Washing Shop & Noronto Shop & Washing Shop & Noronto Shop & Shop & Washing Shop & Noronto Shop & Washing Shop & Noronto S	Tilly, L. Tool and Machine Reg'd.	10045 St. Lawrence Blvd., Montreal
Trentier, A, and Fils Litée  Trottier, A, and Fils Litée  Laprairie  Trutber Precision Industries Ltd.  Universal Die and Tool Mfg. Ltd.  Vallée Machine Shop.  Vallée Machine Shop Regid.  Victory Verdun Machine Paris  Victory Anchine Shop Regid.  Victory Shop Regi		
Trudeau, G		
Turbo Precision Industries Ltd. Universal Die and Tool Mfg. Ltd. Universal Die and Tool Co. Universal Die Machine St. E., Montreal Universal Die Archine Arthst Die Machine Co. Universal Die Archine Arthst Die Die Machine Co. Universal Die Die Machine Morks. Universal Die	Trottier, A. and Fils Ltée	Dolbeau
Universal Die and Tool Mfg. Ltd.  Valled Machine Shop  Valled Machine Shop  Valled Machine Shop  Ville Jacques-Cartier  Victory Tool and Machine Co. Ltd.  Victory Tool and Machine Co. Ltd.  Viens Machine Shop & Repairs Ltd.  Viens Machine Shop & Repairs Ltd.  Voh. Adrien & Fils Ltde  Vulcan Machine Shop & Repairs Ltd.  Voh. Adrien & Fils Ltde  Vulcan Machine Works.  Walter Welding Inc.  Wilson Machine Co. Ltd.  Velle Machine Shop  Velle Machine Shop  Velle Machine Shop  Ontario:  O		
Valleyfield Machine Parts Valleyfield Machine Parts Verdun Machine Ports Verdun Machine Shop Reg'd. Victory Tool and Machine Co. Ltd. Z50 Rose-de-Lima St., Montreal Victory Tool and Machine Co. Ltd. Victory Tool and Machine Co. Ltd. Z50 Rose-de-Lima St., Montreal Vich, Afrien & Fils Life Vulcan Machine Works Walter Welding Inc. Walter Welding Inc. Wilson Machine Co. Ltd. Z293 Lapiere St., Lachine Wright's Industrial Maintenance Ltd. Veile Machine Shop.  Ontario:  A & G Dies Ltd. A & G Dies	Universal Die and Tool Mfg. Ltd.	2125 St. Catherines St. E., Montreal
Vertun Machine Shop Reg'd. Victory Tool and Machine Co. Ltd.  250 Rose-de-Lima St., Montreal Viens Machine Shop & Repairs Ltd.  2101 Roberval St., Montreal Voh. Adrine & Fils Lt6e St.Marc-des-Carrières Vulcan Machine Works. Walter Welding Inc.  10523 Henault, Montreal-Nord Wilson Machine Co. Ltd. Wilght's Industrial Maintenance Ltd. Velle Machine Shop.  St-Urbain  Ontario:  A & G Dies Ltd.  A &	Vallée Machine Shop	
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Vulcan Machine Works       St-Jérôme         Walter Welding Inc.       10523 Henault, Montreal-Nord         Wilson Machine Co. Ltd.       2299 Lapierre St., Lachine         Yelle Machine Shop       St-Urbain         Ontario:         A & G Dies Ltd.       66 Milvan Dr., Weston         Aalus Engineering Co. Ltd.       76 Moira Ave, Toronto         Able Welding and Machine Co. Ltd.       290 Oak St. W., North Bay         Accurate Crankshaft Grinding Ltd.       142 George St., Toronto         Accurate Engineering Co.       267 Caledonia Rd., Toronto         Accurate Engineering Co.       481 Main St., Hamilton         Acromate Stamp and Stencil Co.       481 Main St., Hamilton         Acromate Stamp and Stencil Co.       481 Main St., Hamilton         Active Key Works Limited       645 King St., W. Toronto         Ada Precision Machine & Tool Co.       24 St., Albans Rd.; Islington         Advance Machine and Tools Co. Ltd.       1160 Albert Rd., Windsor         Advance Machine and Tool Co.       24 St., Albans Rd.; Islington         Alled Machine and Tool       25 C., Ltd.         Alled Machine and Tool       26 Magnificent Rd., Toronto         Alled Machine and Tool       27 C., Ltd.         Alled Engineering Co.       104 Martin Grove Rd., Rexidle         Al	Viens Machine Shop & Repairs Ltd.	2010 Roberval St., Montreal
Walter Welding Inc.  Wilson Machine Co. Ltd. Wilson Machine Co. Ltd. Wilson Machine Co. Ltd.  Wilson Machine Co. Ltd.  Wilson Machine Co. Ltd.  Wilson Machine Co. Ltd.  A& G Dies Ltd.  A& G Dies Ltd.  A& G Dies Ltd.  A& G Dies Ltd.  Aalus Engineering Co. Ltd.  Able Welding and Machine Co. Ltd.  Accurate Crankshaft Grinding Ltd.  Accurate Engineering Co.  Accurate Stamp and Stencil Co.  Accurate Stamp and Stencil Co.  Accurate Stamp and Stencil Co.  Actor Machine and Tool Company Limited  Ada Precision Machine & Tool Co.  Advance Machine and Tools Co.  Advance Machine and Tools Co. Ltd.  Advance Machine and Tool Co.  Allied Machine Co. Ltd.  Alter's Machine Shop.  Alter's Machine Shop.  Androw Machine Co.  Androw Machine Co.  Androw Machine Co.  Androw Machine Co.  Alloer's Machine Shop.  Bandon Machine Co.  Apper Machine Co.  Apper Machine Company  Androw Machine Co.  Apper Machine Company  Androw Machine Co.  Apper Machine Co.  Apper Machine Company  Androw Machine Co.  Apper Machine Company  Androw Machine Co.  Apper Machine Co.		
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A & G Dies Ltd.  Aalus Engineering Co. Ltd.  Able Welding and Machine Co. Ltd.  Able Welding and Machine Co. Ltd.  Accurate Crankshaft Grinding Ltd.  Accurate Engineering Co.  Accurate Stamp and Stencil Co.  Accurate Stamp and Stencil Co.  Active Key Works Limited  Active Key Works Limited  Advance Machine and Tool Company Limited  Advance Machine and Tool Co.  Advance Machine and Tools Co. Ltd.  Alled Machine and Tool Co.  Alled Machine and Tool  Alled Co. Ltd.  Altech Engineering Co.  Alteberg's Machine Shop  Backine Company  Annen Automotive Service  Appleford Bros.  Appleford Bros.  Appleford Bros.  Ar Metal Craft  Ar Metal Craft  Ar Metal Craft  Ar Metal Craft  L'Orignal  Associated Tool and Mig. Co. Ltd.  Altens and Hoyle Limited  Atkins and Hoyle Limited  Atkins and Hoyle Limited  Atkins on, C. H. and Co.  Auged Engineering & Machine Shop  Bros.  Appleford Bros.  Auged Engineering & Machine Shop  Auged Engineering & Machine Shop  Auged Engineering & Machine Shop  Province  Auged Engineering & Machine Shop  Appleford Bros.  Auged Engineering & Machine Shop  Auged Engineering & Machine Shop  Province  Auged Engineering & Machine Shop  Province  Auged, Toronto  Auged, Toronto  Auged, Toronto  Auged, Toronto  Auged, Toronto  Auget, Toronto  Sanders St., Tillsonburg  Toronto  Altiport, Toronto  Altiport, Toronto  Altiport, Toronto  Auget, Toronto	Tene machine briop	0.000
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Ada Precision Machine & Tool Co.  Advance Machine and Tools Co. Ltd.  Advance Tool and Mould Co. Ltd.  Alla Machine and Tool Co.  Allied Machine and Tool Co.  Allied Machine and Tool Co.  Allied Machine and Tool  Allied Machine and Tool  Allied Co. Ltd.  Allied Engineering Co.  Altech Engineering Co.  Alter Company  Anno Machine Co.  Andros Machine Co.  Andros Machine Co.  Andros Machine Company  Annen Automotive Service  Apper Machine and Tool Co.  Apper Machine and Tool Co.  Apper Machine and Tool Co.  Apper Machine Bros.  Islington  1230 Plains Rd. E., Burlington  Armstrong Bros. Engineering Co. Ltd.  Art Metal Craft  Associated Tool and Mfg. Co. Ltd.  At Metal Craft  Associated Tool and Mfg. Co. Ltd.  At Metal Craft  Associated Tool and Mfg. Co. Ltd.  At Mins and Hoyle Limited  At Minson, C. H. and Co.  Auged Engineering & Machine Shop  Pennings St., Toronto  15 Kipling Ave., Toronto  15 Kipling Ave., Toronto  15 Kipling Ave., Toronto  15 Kipling Ave., Toronto	Acro Machine and Tool Company Limited	
Advance Machine and Tools Co. Ltd.		
Alda Machine and Tool Co.  Allied Machine and Tool Co.  Allied Machine and Tool  Allied Machine and Tool  Allied Machine and Tool  Allied Machine and Tool  Altech Engineering Co.  Amco Machine Co.  Dawson Rd., Port Arthur  109 Judge Rd., Toronto  Annen Automotive Service  856 Walker Rd., Windsor  20 Derby St., Toronto  Appleford Bros.  Are Tool and Die Works Ltd.  Armstrong Bros. Engineering Co. Ltd.  Armstrong Bros. Engineering Co. Ltd.  Art Metal Craft  Associated Tool and Mfg. Co. Ltd.  Atkins and Hoyle Limited  71 portland St., Toronto  Atkinson, C. H. and Co.  Austin. A. Industries Ltd., The  51 Kipling Ave., Toronto  Scheiner Rd., Toronto  164 Merton St., Toronto  165 Centre St. E., Richmond Hill  9 Fennings St., Toronto  17 Portland St., Toronto  180 Centre St. E., Richmond Hill  180 Centre St. E., Richmond Hill  180 Centre St. E., Richmond Hill  180 Fennings St., Toronto  180 Centre St. E., Richmond Hill		1160 Albert Rd., Windsor
Allied Machine and Tool	Advance Tool and Mould Co. Ltd.	
All-Weld Co. Ltd. Altech Engineering Co. Altberg's Machine Shop. Anco Machine Co. Andros Machine Co. Andros Machine Company Andros Machine Company Annen Automotive Service Appleford Bros. Appleford Bros. Are Tool and Die Works Ltd. Armstrong Bros. Engineering Co. Ltd. Armstrong Bros. Engineering Co. Ltd. Armstrong Bros. Armstrong Bros. Ltd. Armstrong Bros. Armstron		
Altberg's Machine Shop.	All-Weld Co. Ltd.	24 Carlaw Ave., Toronto
Amco Machine Co. Andros Machine Company Annen Automotive Service Apex Machine and Tool Co. Apex Machine and Tool Co. Appleford Bros. Are Tool and Die Works Ltd. Armstrong Bros. Engineering Co. Ltd. Arsociated Tool and Mfg. Co. Ltd. Associated Tool and Mfg. Co. Ltd. Atkins and Hoyle Limited Atkinson, C. H. and Co. Atkinson, C. H. and Co. Austin. A. Industries Ltd., The  Dawson Rd., Port Arthur 109 Judge Rd., Toronto 2 Derby St., Toronto 3 Sanders St., Tillsonburg 1 1230 Plains Rd. E., Burlington 1 136 Adelaide St. W., Toronto 2 L'Orignal Atkins and Hoyle Limited Tilportland St., Toronto 3 Fornings St., Toronto 3 Fennings St., Toronto 5 Kipling Ave., Toronto	Altech Engineering Co.	
Andros Machine Company         109 Judge Rd., Toronto           Annen Automotive Service         856 Walker Rd., Windsor           Apex Machine and Tool Co.         2 Derby St., Toronto           Appleford Bros.         13 Sanders St., Tillsonburg           Arc Tool and Die Works Ltd.         1230 Plains Rd. E., Burlington           Armstrong Bros. Engineering Co. Ltd.         136 Adelaide St. W., Toronto           Art Metal Craft         L'Orignal           Associated Tool and Mfg. Co. Ltd.         3673 Dufferin St., Downsview           Atkins and Hoyle Limited         71 portland St., Toronto           Atkinson, C. H. and Co.         159 Centre St. E., Richmond Hill           Austin. A. Industries Ltd., The         51 Kipling Ave., Toronto	Antherg's Machine Shop	
Annen Automotive Service         856 Walker Rd., Windsor           Apex Machine and Tool Co.         2 Derby St., Toronto           Appleford Bros.         13 Sanders St., Tillsonburg           Arc Tool and Die Works Ltd.         1230 Plains Rd. E., Burlington           Armstrong Bros. Engineering Co. Ltd.         136 Adelaide St. W., Toronto           Art Metal Craft         L'Orignal           Associated Tool and Mfg. Co. Ltd.         3673 Dufferin St., Downsview           Atkins and Hoyle Limited         71 Portland St., Toronto           Atkinson, C. H. and Co.         159 Centre St. E., Richmond Hill           Austin. A. Industries Ltd., The         51 Kipling Ave., Toronto	Andros Machine Company	109 Judge Rd., Toronto
Armstrong Bros. Engineering Co. Ltd.  Art Metal Craft  Associated Tool and Mfg. Co. Ltd.  Associated Tool and Mfg. Co. Ltd.  Atkins and Hoyle Limited  Atkinson, C. H. and Co.  Auged Engineering & Machine Shop  Austin. A. Industries Ltd., The  51 Kipling Ave., Toronto	Annen Automotive Service	1856 Walker Rd. Windsor
Armstrong Bros. Engineering Co. Ltd.  Art Metal Craft  Associated Tool and Mfg. Co. Ltd.  Associated Tool and Mfg. Co. Ltd.  Atkins and Hoyle Limited  Atkinson, C. H. and Co.  Auged Engineering & Machine Shop  Austin. A. Industries Ltd., The  51 Kipling Ave., Toronto	Appleford Bros.	13 Sanders St., Tillsonburg
Armstrong Bros. Engineering Co. Ltd.  Art Metal Craft  Associated Tool and Mfg. Co. Ltd.  Associated Tool and Mfg. Co. Ltd.  Atkins and Hoyle Limited  Atkinson, C. H. and Co.  Auged Engineering & Machine Shop  Austin. A. Industries Ltd., The  51 Kipling Ave., Toronto	Arc Tool and Die Works Ltd.	1230 Plains Rd. E., Burlington
Associated Tool and Mfg. Co. Ltd.  Atkins and Hoyle Limited Atkinson, C. H. and Co.  Auged Engineering & Machine Shop Austin. A. Industries Ltd., The  51 Kipling Ave., Toronto	Armstrong Bros. Engineering Co. Ltd.	136 Adelaide St. W., Toronto
Atkins and Hoyle Limited Atkinson, C. H. and Co. Auged Engineering & Machine Shop Austin, A. Industries Ltd., The 51 Kipling Ave., Toronto	Associated Tool and Mfg. Co. Ltd.	
Atkinson, C. H. and Co. 159 Centre St. E., Richmond Hill Auged Engineering & Machine Shop 9 Fennings St., Toronto Austin, A. Industries Ltd., The 51 Kipling Ave., Toronto	Atkins and Hoyle Limited	71 Portland St., Toronto
Austin, A. Industries Ltd., The 51 Kipling Ave., Toronto	Atkinson, C. H. and Co.	
Automotive Machine Service   222 Main St., Toronto		
	Automotive Machine Service	222 Main St., Toronto

Name

Location

#### Ontario - Continued:

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Avery Machine Ltd.

Aylmer Toolcraft

Baderski, Frank and Son Ltd.

Baird Machines Ltd.

Bakerville Foundry and Machine Shop.

Ball, J. Machine Shop.

Barlow Tool and Machine Ltd.

Barnes Machine Shop.

Barne Welding and Machine Ltd.

Bassett, Frank

Bathurst Grinding Services Ltd.

Battye, Harold & Co. Battye, Harold & Co.

Beasley Machine Ltd.

Beaver Equipment Mfg. Co. Ltd.

Beaverton Metal Works.

Bee, F. Beaver Equipment Mfg. Co. Ltd.
Beaverton Metal Works.
Bee, F.
Beehoo Engineering.
Bekaert Machine and Tool Repair
Belmar Weiding Ltd.
Bell, Stuart & Sons Ltd.
Bennett and McPhie Limited.
Bennett and McPhie Limited.
Bexton, S. and Son.
Binkley Die Castings Ltd.
Blakes Welding & Machine
Biue Water Machine & Tool Co. Ltd.
Bolton Die Company
Bowman, Joe P.
Bowman Tools.
Branson Machine and Tool
Brantford Precision Ltd.
Bremridge Industrial Engineering.
Brigden Manufacturing Co.
Bristol Machine Works
Britton Machine and Welding Ltd.
Brown Engineering Corp.
Bruno Machine Shop Co.
Burston Mfg. Limited.
C.D.M Equipment Repair Ltd.
C-Pak Machine Ltd.
Canadian Beaver Co. Ltd.
Canadian Bedding Machine Service
Canadian Precision Mfg.
Cantool Company Ltd.
Carson J, and Sons.
Central Machine Shop.
Central Tool & Die Ltd. Canadian Precision Mfg.
Cantool Company Ltd.
Carson J. and Sons.
Central Machine Shop.
Central Tool & Die Ltd.
Champion Machine and Tool Co. Ltd.
Circle G. Tool & Engineering.
Clark Machine Co. Ltd.
Clarke, Ben Machine Works.
Clarke Bros. Machine Co. Ltd.
Clay T. Welding and Machine Shop.
Coles Machine Robop.
Coleman Machine and Tool Co. Ltd.
Coopen Machine and Tool Co. Ltd.
Coopen Machine and Tool Co. Ltd.
Coopen Machine Robop.
Conemon Wealth Manufacturing.
Connecting Rod Specialty Ltd.
Cooke and Denison Ltd.
Cooper Automotive Windsor Ltd.
Cooper Automotive Windsor Ltd.
Cote Custom Machine.
Cralg, James C. and Son
Crysler Machine Co. Limited
Custom Machine Works and Metallizing Ltd.
Custom Machine Works and Metallizing Ltd.
Custom Machine Shop.
Dalby Machine Shop Ltd.
Daly Machine Shop Ltd.
Dawns Machine Metallize Co.
Dasshwood, D. and Sons.
Daumar Mfg. & Hydraulics Co.
Dasshwood, D. and Sons.
Daumar Mfg. & Hydraulics Co.
Davidson Machine & Welding
Debo Machine & Welding
Debo Machine Ltd.
Delhi Die and Mfg. Co. Ltd.
Dillon, E. & R. Mfg. Co.
Dingwell's Machine Shop.
Disco Limited.
Dixle Machine Products Ltd.
Dunda Cinductive Ltd.
Dunda Cinductive Ltd.
Dunda Cinductive Ltd.
Dunda Cinductive Ltd.
Eastern Tool Mfg. Co. Ltd.
Economy Machine Froil Co. Ltd.
Edwards, Frank Machine and Tool
Edwards, George H. Fine Instruments
Ehlers Mfg. Ltd.

289 Sumach St., Toronto
23 Ragian St., Aylmer
464 Aigonquin Blvd. E., Timmins
568 Dundas St., Woodstock
R.R. 2, Woodslee
Narrow St., Wellington
2493 Barton St. E., Hamilton
137 Water St., Wallaceburg
39 Anne St., Barrie
3 York St., Picton
45 Niagara St., Toronto
767 Warden Ave., Scarborough
410 Front St. N., Sarnia
65 Hymus Rd., Scarborough
Beaverton Beaverton 33 Fidler St., Woodstock Old Station Rd., Streetsville 271 Inshes Ave., Chatham 19 Woodburn Ave., St. Catharines 19 Woodburn Ave., St. Cam Perth 1230 Dundas St., Toronto 385 Horton St., London 175 Samuelson St., Guelph 178 King St., Clinton 790 Philip St., Sarnia 3245 Byng Rd., Windsor 902 Muray St. Branford 292 Murray St., Brantford 292 Murray St., Brantford Drumbo 300 McGill St., Peterborough Prince Charles Rd., Brantford 120 Barbados Blvd., Scarborough 120 Barbados Blvd., Scarborough
Hornby
75 Amstrong St., Sudbury
16 Gordon St., Guelph
15 Alcom Ave., Toronto
308 Adelaide St. W., Toronto
239 Bering Ave., Toronto
91 Crockford Blvd., Scarborough
2352 Midland Ave., Agincourt
993 Eastern Ave., Toronto
69 Densley Ave., Toronto
172 Toryork Dr., Weston
2115 Midland Ave., Scarborough
95 Hamilton Rd., London
251 Campbell St., Samia
71 Carling St., London
2532 Wharton Glen Ave., Cooksville
924 Walker Rd., Windsor 251 Campbell St., Samia
71 Carling St., London
2532 Wharton Glen Ave., Cooksville
924 Walker Rd., Windsor
423 Glendale Ave., St. Catharines
112 Louth St., St. Catharines
1043 Glendale Ave., St. Catharines
1041 Monteith Ave., Stratford
290 York St., Hamilton
1292 Dupont St., Toronto
1292 Dupont St., Toronto
1849 Mattawa Ave., Cooksville
4 Windmer St., Toronto
31 Yarmouth, St., Guelph
29 Stafford St., Toronto
311 Yarmouth, St., Guelph
29 Stafford St., Toronto
3122 York Rd., Guelph
54 Logan Ave., Toronto
193 St. Paul St. W., St. Catharines
809 Michigan Ave., Point Edward
873-#8 Highway, Fruitland
157 Wellington St., Goderich
156 Speers Rd., Oakville
85 Jaffray St., Galt
91 Dearborn St. E., Waterloo
492 Gilbert Ave., Toronto
117 Main St., Dunnville
155 Chauncey Ave., Toronto
117 Main St., Dunnville
155 Chauncey Ave., Toronto
123 Mainville Rd., Scarboro
97 Isabella, Parry Sound
22 Hoitby Ave., Brampton
454 East St., Delhi
741 Queen St. E., Toronto
79 Machar Ave., Port Arthur
433 Comstock Rd., Scarborough
10 St. Albans Rd., Islington
35 McGhie St., St. Catharines
289 Bering, Toronto
100 Penn Dr., Weston
1086 Cannon St. E., Toronto
100 Penn Dr., Weston
1086 Cannon St. E., Hamilton
140 St. Cecile St., Eastview
27 Armstrong St., New Liskeard
208 Cavan St., Port Hope
R.R. 1, Midland
2150 Yonge St., Toronto R.R. 1, Midland 2150 Yonge St., Toronto 1889 Mattawa Ave., Cooksville

#### Name

#### Location

#### Ontario - Continued:

Electro Processes (Ont.) Ltd.
Electro Processes (Ont.) Ltd.
Elliotts' Machine Shop
Elliott, Leonard Tools Ltd.
Empire Machine & Steel Limited
Event of the Steel Limited
Feldcamp and Fraser Machine Works
Ferraby . J.H. Machine and Repail Shop Service
Pine Plastics Tool & Machine Co. Ltd.
Felikle, Wm. Machine Co.
Fine Plastics Tool & Machine Co. Ltd.
Felikle, Wm. Machine Co.
Fine Plastics of the Steel Limited
Feldcamp and Fraser Machine Co.
Free Instrument Co.
General Machine Steel Limited
Free Instrument Co.
General Instrument Co.
General Instrument Co.
General Machining Services
General Metallic Parts Ltd.
Goodwin Chuck Co. Ltd.
Goodwin Metal Products Ltd.
H. & J. Precision Industries
H. & M. Machining
H. & O. Creteless Grinding Ltd.
Haliburton Machine Stop
Hall, Free And Sc. Ltd.
H. & J. Precision Industries
H. & M. Machining
H. & O. Creteless Grinding Ltd.
Haliburton Machine Stop
Hartl, Free And Sc. Ltd.
Hanson, Machine Stop
Hartl Harden & Steel Harden
Hartle Machine Stop
Hartl Harden & Steel Harden
Hartle Machine Stop
Hartle Machine Stop
Hartle Harden & Steel Harden
Hartle Machine Stop
Hartle Harden & Steel Harden
Hartle Machine Stop
Hartle Harden & Beller Works
Hartle Harden & Machine Stop
Hartle Harden & Beller Works
Hartle Harden & Beller Works
Hartle Bridge & Boller Works
Hunberstope Machine Co.
June Fool and Machine Stop
June Fool and Machine

9 Millwick Dr., Weston 9 Millwick Dr., Weston Strathroy R.R. 1, Brantford 1 Elrose Ave., Weston 1 Lippincott St., Toronto R.R. 6, Bowmanville 7 Connie St., Toronto 316 William St., London 1417 Crawford Ave., Windsor Owen Sound Seymour St., North Bay 1188 Frances St., London 1551 Keele St., Toronto 68 Dundas W., Belleville Harriston 1551 Keele St., Toronto
68 Dundas W., Belleville
Harriston
11 Manitoba St., St. Thomas
241 Bridgeland Ave., Toronto
R.R. 2, Walkerton
Mazie St., Smiths Falls
120 Barbados Blvd., Scarborough
37 Hanna Ave., Toronto
1a Harold Ave., Toronto
16 Milford Ave., Toronto
1120 Castlefield Ave., Toronto
288 Glendale Ave., St. Catharines
415 Main St. E., Welland
27 Jarvis St., Brantford
298 Edinburgh St., Peterborough
321 Coleman St., Belleville
Midland
River Rd., Sault Ste. Marie
724 Erskin Ave., Peterborough
R.R. 1, Ariss
809 Victoria St. N., Kitchener
Haliburton R.R. 1, Ariss
809 Victoria St. N., Kitchener
Haliburton
35 Glow Ave., Hamilton
1488 Arthur St., Niagara Falls
11 Ferguson Ave. North, Hamilton
55 Clarke St. S., Woodstock
1124 Dubeau St., Cyrville
271 First Ave., Timmins
18 Clarence St., Brantford
R.R. 4, Brantford
Hwy. 53, Cathcart, Brant Co.
284 Maple Leaf Dr., Toronto
Quebec St., Michell
Con. IV. Markam Twp., Willowdale
23 Raliside Rd., Don Mills
331 Adelaide St., W., Toronto
42 George St., Brockville
85 Shorncliffe Rd., Toronto
677 Buttry Ave., Niagara Falls
351 Leaside Ave., Stoney Creek
22 Industrial Rd., Richmond Hill
525 High St., Orillia
22 Cavan St., Port Hope
381 Homer Ave., Toronto
65 Brydon Dr., Rexdale
114 Chesnut St., Port Colbome
Kincardine
275 Kipling Ave. S., Toronto 114 Chesnut St., Port Coronin Kincardine 275 Kipling Ave. S., Toronto 17 Louth St., St. Catharines 107 Toryork Rd., Weston 11 Sheffield St., Toronto 28 Industrial St., Guelph 232 Wellington St., Kingston 232 Wellington St., Kingston Rainy River
76 McCullock Ave., Toronto Queen St., Hensall
28 Rutherford Rd., Brampton
982 Brant St., Burlington
96 Ross St., Barrie
229 Earlscourf Ave., Toronto
2114 Junction St., Burlington
204 Pellatt Ave., Weston
R.R. 3, Woodstock
26 St. Albans Rd., Islington
1829 Paris St., Sudbury
127 Barnesdale N., Hamilton
St. Jacobs 127 Barnesuate N., Ramas St. Jacobs 21 Heather Cres., London 2918 Walker Rd., Windsor 109½ Rectory St., London Norval 10 Station Rd., Kirkland Lake 3878 McLeod Rd., Niagara Falls Chemong Rd., Peterborough 147 St. Mary St., Brantford Bowmanville R.R. 2, Beaverton 553-8th Ave., Hanover 185 Market St., Hamilton

Name

Location

#### Ontario - Continued:

Ditario — Continued:

Latiner, C. W. and Sons
Leclere, Oram Machine Shop
Leco Tool and Machine Limited
Lennox Tool and Die Co. Ltd.
Lenwill Mfg. Company
Lepper, F. and Son Limited
Lincoln Machine Shop Ltd.
Little Metal Products
Lloyd's Machine Shop
Locker Machine & Tool
London Matallizing & Machine Co. Ltd.
M. & R. Tool Co., Ltd., The
M. V. Machine Works Co. Ltd.
Mass Brothers Ltd.
Machine Specialties
Machine Specialties
McLean Underfeed Stoker Co. Ltd.
Magna Electronics Corp.
Mainline Tool and Die Ltd.
Mansion Tool and Die Ltd.
Marsiand Precision Equipment Ltd.
McCoy Machinery and Supply Co. Ltd.
McCrindle, A.C. Ltd.
McDermott, L. and Associates Ltd.
McDermott Metal Products
McLead and Jessiman Engineering
McQueen Brothers
Mecon Industries Ltd.
McDondine Machine Co. Ltd.
Mittor Machine and Tool
Mittor Machine Brothers
Mecon Industries Ltd.
McDondine Brothers
Mecon Industries Ltd.
McTondley Brothers
McQueen Bro Oakwood Machine and Tool Co.
Oliver, A. H. Machinery Co.
Optimec.
Orllia Tool & Stamping Ltd.
Ottawa Equipment Rebuilding
Ottawa Machine Shop
Owen Sound Die and Engineering
Oxford Welding and Machine Shop
P M Machine & Die Co.
Page Machine Tool and Die Works Ltd.
Pal Engines
Papazian Machine & Tool
Paragon Metal Industries Ltd.
Parkdale Machine and Tool Co.
Patterson, P. and Sons.
Payne Metal Industries Ltd.
Peerless Machine and Tool Co. Ltd., The
Penn Machine & Manufacturing Co. Ltd.
Perkins, Frank Co.
Peterborough Tool and Machine Co. Ltd.
Pett Machine and Supply Ltd.
Pette Bob Machinists
Piccione Machine Tool & Gear Mfg. Ltd.
Poole and Co.
Poppleton, George Machine Works
Porter's Automotive Machine
Post Machine Eo.
Precision Engineering Co. Ltd. Porter's Automotive Machine
Post Machine Co.
Precision Engineering Co. Ltd.
Precision Milling Co.
Premat Precision Machine & Tool Co.
Presco Mfg. Co.
Prescott Machine and Welding Ltd.
Preston Machinety Co.
Preston Rebuilt Machinery
Preston Rebuilt Machinery Preston Rebuilt Machinery
Pyke, Bert Limited
Queensway Machine Products Ltd., The
Quinte Machine and Repair Co. Ltd.
R. W. Custom Machine Shop
R. & Y. Tool and Die Co, Limited
Rae and Foster Ltd.
Rae Metal Products
Rankin-Strite Ltd.

8 Hoffman St., Kitchener
528 Main St., Hawesbury
11 Bertrand Ave., Scarborough
49a Fina Crescent, Toronto
65 Martin Ross Ave., Drownsview
87 Northline Rd., Toronto
44 Scott St., St. Catharines
653 Bishop St., Preston
57 Albert St., Cobourg
R.R. 2, Wardsville
406 First St., London
6534 Kingston Rd., West Hill
70 Chauncey Ave., Toronto
22 Irving Ave., Ottawa
2 Dartnell Ave., Toronto
980 Rosselawn Ave., Toronto
4319 Lawrence Ave. E., West Hill
17 Sheard Ave.. Brampton
970 Broadview Ave., Toronto
582 Eightline N., Oakville
19 Mansion Ave., Scarborough 582 Eightline N., Oakville
19 Mansion Ave., Scarborough
380 Weber St. N., Waterloo
258 Catherine St. N., Hamilton
300 Eugenie St., Windsor
63 Crockford Ave., Scarborough
481 – 9th Ave., Hanover
240 Gore St. W., Fort William
270 Erie St. S., Leamington
17 Malley Rd., Scarborough
Seymour St., North Bay
15 Penn Dr., Weston
203 Mill St., Milton
Sioux Lookout
126 Willowdale Ave., Willowdale
59 Milvan Dr., Weston Sioux Lookout
126 Willowdale Ave., Willowdale
59 Milvan Dr., Weston
75 Densley Ave., Toronto
58 Rosemount Ave., Weston
1281 Florence St., London
55 Merrick St., Hamilton
65 Torbarrie Rd., Downsview
139 Wendell Ave., Weston
76 Mead Ave., Hamilton
131 Loretta Ave., Ottawa
81 Millwick Dr., Weston
R.R. 1, Welland
339 Berlng Ave., Toronto
142 McIntyre St., North Bay
137 Black Rd., Sault Ste. Marie
914 Appleby Line, Burlington
Oakville
175 Eileen Ave., Toronto
177 Cedar St. E., Orillia
160 Maria St., Toronto
68 West St. S., Orillia
Gloucester Gloucester
451 Ottawa St. S., Kitchener
1515 - 2nd Ave. E., Owen Sound
Ingersoll 1515 — 2nd Ave. E., Owen Sound Ingersoll 27 St. Alban's Rd., Islington 40 Page St., St. Catharines R.R. I. Orillia 68 Princess St., Toronto 6501 Kingston Rd., Scarborough 3269 Queen Elizabeth Way. Burlington 83 Lake St., Pembroke 252 Bering Ave., Toronto 59 Duke St., Guelph 33 Niagara St., Toronto 201 Sophia St. S., Prescott 138 Dalhousie St., Peterborough 170 Webster Rd., Kitchener 920 Dufferin Ave., London 117 Cartwright Ave., Toronto 365 Adelaide St. E., Toronto 207 Crawford St., South Porcupine R.R. 5, Woodstock 15 Belvia Rd., Toronto 76 McCulloch Ave., Rexdale 24 St. Alban's Rd., Islington 476 King St. E., Toronto River Road E., Prescott Preston Railway St., Preston 751 Farewell Ave., Oshawa Preston Railway St., Preston 751 Farewell Ave., Oshawa 1549 Queensway Ave., Toronto Frankford Rd., Trenton Meadowvale
36 Emmett Aye., Fonthill
729 Third St., Port Credit
R.R.3, St. Thomas
290 Oak St., Hespeler

# List of Establishments classified to this Industry, 1965 - Continued Name Location Rechtsman Brass Works Ltd. Rector's Machine Shop Redman Machine and Metallizing Ltd. Reliable Tool and Mfg. Co. Renfrew Electric Co. Ltd. Renfrew Tool Ltd. Renown Specialties Co. Richmond Machine and Tool Ridgetown Tool and Die Riverdale Machine and Tool Ridgetown Tool and Die Riverdale Machine and Tool Co. Ltd. Romeo Machine Shop Ltd. Romban Precision Manufacturing Ltd. Rumball. J. E. Ltd. Sauve Machine and Welding Works Scarboro Products Co. Scharf Garnet Machine & Tool Schuller Machine and Tool Ltd. Serew Machine Bhop Seward, N. A. Machine Tool Co. Siegner Screw Machine Products Seaforth Machine Shop Seward, N. A. Machine Tool Co. Siegner Screw Machine Products Co. Ltd. Simcoe Automotive Machine Shop Snobelen Enterprises Limited Solo Mor Motor Manufacturing Ltd. Soo Foundry and Machine Co. Ltd. Specialty Welding and Machine Co. Ltd. Stalket Engineering Co. Ltd. The Stapley, W.C. Steel Metal Machine Fabricators Stouffville Machine & Tools Ltd. Swissway Machine Fool Ltd. Taper Machine Tool Co. Therred Machine Co. Ltd. Titan Tool and Die Limited Thurson Machine Co. Ltd. Titlsonburg Machine Ltd. Titlsonburg Machine Co. Ltd. Titlsonburg Machine Co. Ltd. Titlsonburg Machine Ltd. Titlsonburg Machine Co. Ltd. Titlsonburg Machine Co. Ltd. Toronto Machine Repair Thurson Machine Repa Ontario - Concluded: 62 A Eugene St., Toronto 728 Wellington St. N., Sault Ste. Marie 1145 Brydges St., London 91 Omond St. N., Thorold 349 Carlaw Ave., Toronto 149 Bonnechere St. N., Renfrew Rechtsman Brass Works Ltd. 149 Bonnechere St. N., Renfred Racine Rd., Rexdale 1222 Dundas St. W., Toronto 53 David St., Ridgetown 123 Manville Rd., Scarborough 1577 Howard Ave., Windsor 27 Stafford St., Toronto 1020 Elizabeila St., Sudbury 177 Samuel St., Sarnia Casselman 1570 Midland Ave., Scarborough 1570 Midland Ave., Scarboro R.R. 1, Orillia 27 Malley Rd., Scarborough 230 Mackenzie Ave., Ajax Main St. S., Seaforth 246 Front St., Campbellford 296 Egerton St., London Carlaw Ave., Kingston 127 First Ave., Simcoe Thamesville 220 Medland St., Toronto Thamesville 220 Medland St., Toronto 457 Bay St., Sault Ste. Marie 1630 Langlois St., Windsor 712 Lite St., Point Edward 250 Colborne St. N.. Simcoe 185 Alma St., Campbellford 347 Cannon St. E., Hamilton 240 Sterling Rd., Toronto 101 Station St., Stouffville 108 Merton St., Toronto 85 Rosemount Ave., Ottawa 299 Adelaide St. W., Toronto Etobicoke 247 Colborne St. W., Brantford 289 Sumach St., Toronto Burks Falls 219 Fares St., Port Colborne Tillsonburg 452 Charles St., Sandwich 785½ Lake Shore Rd., Samia 1344 Martin Grove Rd., Rexdale 1344 Martin Grove Md., Rexidate 90 Shaftsbury Ave., Toronto 235 King St. E., Toronto 485 Wellington St. W., Toronto Export St., St. Catharines 123 Crockford Blvd., Scarborough 155 Bay St., Trenton 695 Bishop St., Preston 240 Glendale Ave., St. Catharines Woodbridge Trenton Machine Tool Ltd. Trne Forge Ltd. Triangle Die and Tool Co. Ltd. Turnet Lathe Services Twin City Auto Parts Ltd. Twin City Machine & Repair United Auto Parts Inc. (London Machine Shop) Upper Canada Mfg. Ltd. Vaillancourt Machine Shop Verral Metal Fabricators 240 Glendale Ave., St. Catharit Woodbridge 94 Borden Ave. S., Kitchener 133 Bedford Rd., Kitchener 89 York St., London 223 Evans Ave., New Toronto 235 Kitchener St., Hawkesbury 22 Howden Ave., Scarborough 310 Barlett Ave., Toronto West Lome Twin City Machine & Repair United Auto Parts Inc. (London Machine Shop) Upper Canada Mfg, Ltd. Vaillancourt Machine Shop Verral Metal Fabricators Viking Engine and Tool Co. Ltd. Vojin, Joseph and Son W.L.C. Machine and Welding Co. Wanco Machine and Metal Products Wasco Valve Seat Company Limited Waterloo Machine and Tool Webber Gear and Machine Co. Ltd. Weiter Machine Co. Ltd. West End Machine Shop West, R.J. Ltd. Westside Machiners Wheeler Machine Shop Whitaker, Ray & Son Whitby Metal Products Whitelaw Machine and Stamping Ltd. Windsor Machine and Stamping Ltd. Wing & Son Limited Woife Transmission Ltd. Wright, Geo. A., and Son Machine Works Ltd. Wright Machine and Tools Ltd. Wyere, N.A. Machinery Co. Varmouth Machine Co. Yarmouth Machine Co. Yarmouth Machine Co. Yarmouth Machine Co. 22 Howden Ave., Scarborough 310 Barlett Ave., Toronto West Lome 25 A Water St. S., Galt 18 Childers St., London 38 Gordon Ave., Essex 24 Bridgeport Rd., Waterloo 15 Alcorn Ave., Toronto 309 Main St., Woodstock 3 Tecumseh Rd., Chatham 200 Milvan Dr., Weston 274 King St., Fort William 2562 Stramfield Rd., Cooksville 3012 King St. E., Kitchener R.R.2, Port Perry Watson St., Whitby 572 Main St., Woodstock 777 Caron Ave., Windsor 32 Bay St. N., Hamilton 1401 The Queensway, Toronto 146 Hickson Ave., Kingston 127 Vine St., St., Catharines 61 Kent Ave., Kitchener Wyebridge Wyebridge 181 Woodworth Ave., St. Thomas 198-30th St., Toronto

#### Manitoba:

Astbury, Chas, B.
Bowen Machinery Ltd.
Canadian Tool and Die Works Ltd. Casi's Machine Shop.

Tupper St. N., Portage La Prairie 1560 Erin St., Winnipeg 1331 Chevrier Blvd., Winnipeg Neepawa

Name Location Manitoba - Concluded: anitoba — Concluded;

Community Brake Service
Craftsman Machine Co.
Crankshaft Industries Ltd.
Crescent Electric and Machine Works
Darragh Machine Works
Dauphin Machine Works
Donalds' Machine Shop
Erin Welding Co.
Friesen Machine Works Ltd.
Hanover Machine Works
Hansen's Carl Machine Shop
Joe's Machine Shop
Johnson Bros, Mfg. Ltd.
Kunec Machine Works
Lechner, A. & J. 1155 McLeod Ave., Winnipeg 201 Princess St., Winnipeg 926 St. James St., Winnipeg 98 King St., Winnipeg 289 Marion St., St. Boniface 29-2nd N.E., Dauphin Lot 17 McPhillips, Old Kildonan P.O. 580 Erin St., Winnipeg Steinback 580 Erin St., Winnipeg
Steinback
140 Main St., Steinback
1442 Erin St., Winnipeg
918 Elizabeth Rd., St. Boniface
903 Marion St., Winnipeg
4 Powers St., Winnipeg
205 Stephen St., Morden
288 Bushnell St., Winnipeg
270 St. Mary's Ave., Winnipeg
253 McPhillips St., Winnipeg
1011 Alexander Ave., Winnipeg
1132 Sandford St., Winnipeg
Morris Lechner, A. & J.
Logan Machine Works
Manitoba Bearing Works Ltd.
Manitoba Welding Machine Works
Mechanical Welding Co. Ltd.
Micro Tool & Machinery Ltd.
Morris Welding & Iron Works Ltd.
Muzeen and Blythe Ltd.
Parsons Machine Shop
Peters Machine Shop
Peters Machine Shop
Piston Ring Service Supply Ltd.
Precision Machine Works Ltd.
Precision Mfg. & Machining Brandon Ltd.
Precision Mfg. & Machining Brandon Ltd.
Pritchard Engineering Company Ltd.
Pydee Engineering Co. Ltd.
Selkirk Machine Works
Shefrin Welding and Iron Works
Sheprind Machine Tool and Die Works Ltd.
Sommers, F. Mfg. Co. Ltd.
Standard Machine Works Ltd.
Star Machine Shop
Sterling Engine Works Limited, The
Thor Machinery Co. Ltd.
Universal Machinery and Engineered Products (1964) Ltd.
Western Engine Works Ltd.
Western Engine Works Ltd.
Western Engine Works Ltd.
Western Engine Works Ltd. Lechner, A. & J. Logan Machine Works 1132 Sandford St., Winnipeg
Morris
187 Sutherland Ave., Winnipeg
Virden
Plum Coulee
1108 Wall St., Winnipeg
584 Erin St., Winnipeg
2312 Park Ave., Brandon
70 Garry St., Winnipeg
1018 Shebrooke St., Winnipeg
490 Main St., Selkirk
885 Madison St., St. James
677 Notre Dame Ave., Winnipeg
203 Main St., Winnipeg
600 St. Matthews Ave., Winnipeg
601 Washington Ave., East Kildonan
33 Water St., Winnipeg
1354 Waverley St., Winnipeg
1354 Waverley St., Winnipeg
307 Talbot St., Winnipeg Morris askatchewan:

Acme Machine and Electric Co.
Assinibola Machine Shop
Automotive Machine and Supply Co. Ltd.
Beeler's Machine Shop
Davis Machine Co. Ltd.
Estevan Machine Shop
General Automotive Supply Ltd.
Hall's Machine Shop
Hauser's Machinery and Welding
Lipton Machine Shop
Lou's Machine Shop
Lou's Machine Shop
Mcintyre Manufacturing Co. Ltd.
Meifort Machine and Welding
Meschishnick Bros.
Motive Machine Works Ltd.
Motor Rebuilders Ltd.
Ornamental Iron Works
Pascoe's Machine Shop
Peters Machine Stop
Peters Machine Stop
Peters Machine Estop
Regina Electric and Machine Co. Ltd.
Saskatoon Engine Rebuilders Ltd.
Swanson Industries Ltd.
Tractor Boneyard
Venables Muchine Works Ltd. 150 Avenue "A" North, Saskatoon 300 Ist. Ave., Assiniboia 326 High Street W., Moose Jaw 3rd Avenue, Nokomis 142 Avenue "A" North, Saskatoon Estevan 208-212-20th St. W., Saskatoon 174 Centre Street, Shaunavon 340-3rd Avenue W., Melville 340-3rd Avenue W., Melville Lipton
Estevan
144-3rd Avenue W., Swift Current
210 Burrows Ave. W., Melfort
St. Gregor
1342 Lorne St., Regina
1650 Winnipeg St., Regina
1320 Hamilton St., Regina
1320 Hamilton St., Regina
112 High Street W., Moose Jaw
Myrtle St., Yorkton
518-42nd A Street E., Saskatoon
1375 Scarth St., Regina
109 Railway Avenue, Weyburn
1763 Halifax Street, Regina
621 Avenue "O" South, Saskatoon
417 Avenue M. S., Saskatoon
417 Avenue M. S., Saskatoon
418 Avenue "B" North, Saskatoon
419 Avenue "B" North, Saskatoon
71-1st Ave. N., Saskatoon
102 Sask. Avenue E., Melfort
703 Railway Avenue, Weyburn Swanson Mudstes Ltd.

Venables Machine Works Ltd.

Western Aulomotive Rebuilders

Western Machine Shop

Weyburn Iron Works Alberta: Able Machine Works (Edmonton) Ltd.
Acro Machine and Specialty (Calgary) Ltd.
Alberta Chrome & Grinding Ltd.
Alberta Oil Tool Co. Ltd.
Alco Machine Works Ltd.
Argus Machine Co. Ltd.
Barber Machinery Co. Ltd.
Barber Machinery Co. Ltd.
Barber Machinery Co. Ltd.
Barnie's Engine Service & Supply Co. Ltd.
Bartman's Machine Shop 111th Avenue & 151st Street, Jasper Place 1917-10th Ave. S.W., Caigary 1440-9th Ave. S.E., Calgary 9530-60th Avenue, Edmonton 6915-104th Street, Edmonton 5820-97th Street, Edmonton 4608 Macleod Trail, Calgary 10358-65th Avenue, Edmonton 6022-104th Street, Edmonton 1st Street W., Hanna

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

Name	Location
Alberta - Concluded:	
	19910 Fast Boad Edmonton
Byer's Machine Shop Camrose Engineering and Machine Co.	
Canadian Equipment Sales and Service Co. Ltd.	
Central Hydraulic Manufacturing Co. Consort Machine Shop	
Coronet Machine & Supply Ltd.	7833 Coronet Rd., Edmonton
Cromdale Machine Works Ltd.	11285-82nd Street, Edmonton 12654-97th Street, Edmonton
Curtis Hoover Ltd. Cutler Manufacturing Company Ltd.	5324-4th Street S.E., Calgary
Dahl, G. and Sons Ltd. Dick's Machine Co. Ltd.	5001-49th Street, Camrose 5013-48th Street, Camrose
Diro Machine and Steel Ltd.	
Drumheller Iron Works Edmonton Auger & Bit Service Ltd.	220-5th St. W., Drumheller 6931-104th St., Edmonton
Electric Machine Service	
Engine Rebuilders Ltd. Fort Machine Works Ltd.	
Gleave Machine Ltd.	5002-44th Ave., Stettley
Hans Machine Shop	
Hayden's Machine Shop	Longview
Hoover Tool Joint Service Ltd. Hunt Welding Services	
H-Way Machine Shop	Alix
Independent Machinery Ltd. Industrial Machine Shop Ltd.	
Irma Machine Works	Irma
Jackson's Weiding (Calgary) Ltd.  Kemeli Machine Co.	
Kinsella Welding	Kinseila
Kirk's Metallizing Works Ltd. Lennox Welding and Supply Ltd.	11716 - 82nd Street, Edmonton
Lethbridge Industries Ltd. Liberty Machine Works Ltd.	5734-103rd Street, Edmonton 1117-2nd Ave. "A" North, Lethbridge
Liberty Machine Works Ltd.  Linden Machine Works Ltd.	10247-103rd Street, Edmonton
Lo-Cost Automatic Transmission Rebuilders Ltd.	
McCombie, B.T. & Supply Ltd. McKinney Machine Company Ltd.	9613-62nd Ave., Edmonton 9535-63rd Avenue, Edmonton
McLennan and Rooks	
Medicine Hat Iron Works Micro Machine Co, Ltd.	690 South Railway St., Medicure Hat 244-40th Ave. N.E., Calgary
Mid-Western Machine Work Ltd.	
Moore's Machine Shop Moro Machine Co. Ltd.	
Mount View Machine Co. Ltd.	424-51st Avenue S.E., Calgary
Nichols Bros. Ltd. Niven Truck Equipment Ltd.	
North Edmonton Iron Works	
North Red Deer Welding Shop	5902-54th Ave., Red Deer 5310-103 "A" Street, Edmonton
Oilfield Specialty Welding Ltd.	5610-103 "A" Street, Edmonton
Oilwell Machine Co. Oxford Machine and Welding Co. Ltd.	Turner Valley 10904-119th Street, Edmonton
Paragon Machine Co.	511-3rd Avenue S.W., Calgary
Pepper Bros. Ltd. Red Deer Iron Works	
Rice Machine Service Ltd.	
Steel Industries of Grande Prairie Ltd. Superior Machine Service Ltd.	
Swan Hills Machine Shop Ltd.	Swan Hills
Tappenden, Fred S. Ltd. Tofield Farm Equipment	
Vailey Tool and Machine Co.	1504-40th Avenue S.W., Calgary
Volk Machine Shop Ltd.	4512-6th Street N.E., Calgary Delburne
Warren Machine Works Western Hydraulic and Machine Ltd.	12225 Fort Rd., Edmonton
British Columbia;	
A & B Machine Works	720 Princess Ave., Victoria
Abbotsford Machine Repairs	Essendene Ave. Abbotsford
Adams, Ray, Machine Works Ltd.  Aero Machine Shop Ltd.	
Alberni Engineering & Shipyard Ltd.	104 Bird Street, Port Alberni
Allied Engine Remanufacturers Ltd. Allied Parts & Engine Rebuilders Ltd.	153 West 6th Ave., Vancouver 118 West 2nd Ave., Vancouver
Anseli Machine Works	1615 Franklin St., Vancouver 6
Argyle Machine Works (1962) Ltd. Arm, W.F. Machine Works Ltd.	2022 Main Street, Port Alberni 2022 Main Street, Vancouver
Armstrong Machine Shop Ltd.	Railway Avenue, Amstrong
Bohn's Machine Shop Boyd's, Repair Ltd.	
Brinkhurst Machine Products	416 E. Hastings St., Vancouver 4
Broadway Welding Shop Ltd. Brunette Machine Works Ltd.	
Burke Machine Works Ltd.	
Cache Creek Machine Shop	Cache Creek 1821 Island Highway, Campbell River
Cannon Machine Works Ltd.	626 Alexander Street, Vancouver
Capilano Engineering Co. Ltd. Cariboo Drives and Bearing Sales Ltd.	1675 West 2nd Avenue, Vancouver 9 100 Mile House
Carter Machine Works Ltd.	71 Braid St., New Weslminster

Name Location

British Columbia - Continued: Cassidy Industrial Engineering Ltd...
Castco Diesel & Equipment Engineering Ltd...
Central Machine Shop
Chapman Manufacturing Co. Ltd... Chapman Manufacturing Co. Ltu.
Chrome Grinders
City Welding and Machine Shop Ltd.
Coast Machine Works Shop
Coleman Machine Works Ltd.
Columbia Machine Works Ltd.
Coulter and Marsh Machine Shop Ltd.
Courtenay Machine Shop Ltd.
Courtenay Machine Co. Ltd.
Crestwood Engineering Co. Ltd.
Curtis Hoover (B.C.) Ltd.
Cylinder Grindets Ltd. Curtis Hoover (B.C.) Ltd.
Cylinder Grindets Ltd.
Dafoe, V.M.
David Machine Shop & Welding
Dawson Creek Industries
Derrick Machinery Co. Ltd.
Duncan Iron Works Ltd.
E & M Machine Works Ltd.
Earl's Machine Shop
Easthope Bros. Ltd. E&M Machine Works Ltd.
Earl's Machine Shop
Easthope Bros. Ltd.
Ebco Manufacturing and Plating Ltd.
Ebco Manufacturing and Plating Ltd.
Ebco Manufacturing and Plating Ltd.
Ebdo Industries.
Fauchon Engineering Works Ltd.
Fort Machine Shop
Gilen and Pike Ltd.
Glendale Machine Shop Ltd.
Golden Machine Shop Ltd.
Hafer Machine Co. Ltd.
Harbour Machine Shop
Harjim Machine Works Ltd.
Harvey's Machine Shop.
Heatley Machine Shop.
Heatley Machine Shop
Illl's Machine Shop
Illl's Machine Shop
Illope Manufacturing Co. Ltd.
Illumphrey, Art Ltd International Drills (1955) Ltd.
Kamloops Rebulders
Kaslo Machine Shop.
Kelowna Steel Fabricators Ltd.
Langley Welding and Machine Shop.
M & M Motor Parts Ltd.
Marpole Machine Works Ltd.
Massey's Machine Shop Ltd.
Massey's Machine Shop Ltd.
McConnell's Machine Co. Ltd.
McConnell's Machine Shop Ltd.
Merritt Machine Shop
Modern Engineering Co. Ltd.
Mononey Machine Works
Murray-Latta Machine Co. Ltd.
Nafco Manufacturing Co. Mouriay-Latta Machine Co. Ltd.
Nafco Manufacturing Co.
Nanaimo Foundry and Engineering Works Ltd.
National Nubuilt Corp. Ltd.
National Shops Ltd.
Newnes Machine and Iron Works Ltd.
Norco Machine Work Ltd.
North Arm Machine Ltd.
North Arm Machine Ltd.
North Vancouver Machinery Ltd.
Norwell Industries Ltd.
Olmstead's Machine Shop.
Osoyoos Machine Shop.
Osoyoos Machine Shop Ltd.
P. & S. Engineering Ltd.
Paragon Equipment Mfg. Co. Ltd.
Pendozi Machine Shop.
Penticton Engineering Works Ltd.
Pincheck, F.W.
Plant Service
Port Machine Works Pinchbeck, F. W.

Plant Service

Port Machine Works

Powell Machine Works Ltd.

Progressing Engineering Works Ltd.

Quality Machine and Motor Service Ltd.

R. & S. Machine Works Ltd.

Ramsay Machine Works Ltd.

Ray's Machine Shop

Reekie's Machine Shop Ltd.

Reliance Motor & Machine Works, Ltd. Reliance Motor & Machine Works, Ltd.
Rempel, H. Ltd.
Richards Engineering Company Ltd.
Rosedale Machine Shop Ltd.
Rousson's Machine Shop
Sig's Machine Shop
Smith, Charles Machine Works Ltd.
Smith Industries (1958) Ltd.
Smyth Machine Shop
Sooke Machine Shop

95 East 3rd Avenue, Vancouver 10 1711 Franklin St., Vancouver 448 Dawson Ave., Penticton 1680 W. 5th Avenue, Vancouver 9 1000 Parker St., Vancouver 44375 Yale Rd. W., Chilliwack 1279 E. Pender St., Vancouver 6 Quesnel 360 W. 4th Avenue, Vancouver 10 4878 Elliott St., Ladner Union Bay Rd., Courtenay 362 Selby Street, Nanaimo 851 West Road, Richmond Fort St. John
1216 Seymour St., Vancouver 2
Foot of Roger St., Vancouver
Chase Chase 1705 Alaska Ave., Dawson Creek 9113 McKenzie St., Fort St. John 162 Government St., Duncan Duncan 560 Raymur St., Vancouver 1225 #1 Road, Steveston 235 East 5th Ave., Vancouver 1272 West 6th Avenue, Vancouver 9 Campbell River Fort St. James 1784 West Georgia St., Vancouver 5 1784 West Georgia St., Vancouve Williams Lake 922-11th Avenue E., Golden 1720 Store Street, Victoria 31 Erie St., Victoria 2500 Rock Bay Ave., Victoria Box 438, Oliver 636 Alexander St., Vancouver 4 636 Alexander St., Vancouver 4
Squamish
Gibsons Landing
Wallace Street, Hope
1995 Franklin Street, Vancouver 6
4449 Dawson St., Burnaby 2
102 East 2nd Avenue, Vancouver 10
369 Alexander St., Vancouver 4
246 West 5th Aven 346 West 5th Avenue, Vancouver 10 181 Victoria St. W., Kamloops Kaslo 864 Cowley Ave., Kelowna Rasio
864 Cowley Ave., Kelowna
20272 Trans-Canada Hwy., Langley
114 West 5th Ave., Vancouver
1422 S.W. Marine Drive, Vancouver
5915 Ghisholm St., Ladner
5 West 2nd Avenue, Vancouver
Government St., Bums Lake
2175 Coldwater Ave., Merritt
1695 West 5th Avenue, Vancouver 9
300 East Esplanada St. North Vancouver
311 W. 2nd Avenue, Vancouver 10
Port Coquitiam
100 Comox Road, Nanaimo
1175 Union St., Vancouver
Grandville Island, Vancouver 9
Front St., Salmon Arm
430 Tranquille Road, North Kamloops
Foot of 20th Street, New Westminster
815 Low Level Rd., North Vancouver
2540 Bowen Rd., Nanaimo
Campbell River Campbell River Osoyoos Osoyoos Athalmer 1000 Parker St., Vancouver 885 E. Cordova St., Vancouver 4 3006 Pandosy St., Kelowna 885 E. Cordova St., Vancouver 4
3006 Pandosy St., Kelowna
Penticton
1429 River St., Kamloops
8932 Oak St., Vancouver 14
707-4th Avenue North, Port Alberni
2893 Loughe ed Highway, Mission City
360 West First Ave., Vancouver 10
8914 Oak Street, Vancouver 15
1878 Kent Street, Vancouver 15
1630 Store Street, Victoria
360 Wesley Street, Nanaimo
126 North Van Home, Cranbrook
395 Alexander St., Vancouver 4
4207 Fraser St., Vancouver 14
9880 Munro Avenue, Rosedale
10500-135th "A" Street, North Surrey
1832 West Georgia St., Vancouver 5
1990 Cypress St., Vancouver
197 East 20th Avenue, Vancouver 10
98 Hwy. North, Princeton
Sooke

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

Name	Location
British Columbia - Concluded:	
Specialty Machine Shop Ltd. Standard Machine Shop Ltd. Stevenson Machinery Ltd. Steveston Machine Shop. Stewart Bros. Repair Shop. Stuart Island Machine Shop. Stuart Island Machine Shop. Strart Island Machine Utd. Trail Machine Works Ltd. Trail Sales and Machine Ltd. United Engineering Works, Ltd. Valemont Saw Repairs Ltd. Vemon Machine and Equipment Ltd. Viking Mfg. Co. Ltd. Vulcan Automotive Equipment Ltd. Wallance Machine and Manufacturing Co. Ltd. Wallance Machine Shop Western Industries Ltd. Western Machine Shop Ltd. Westview Machine Shop Ltd. Westview Machine Shop Ltd. White Bros. Machining and Mfg. Co. Williams Lake Machine Shop. Williams Lake Machine Shop. Williams Lake Machine Shop. Williams Lake Machine Works. Will-Mon Mfg. Ltd.	1248 Seymour St., Vancouver 1st Avenue & Manson Way, Prince Rupert 708 Vernon Street, Nelson 1235-1st Rd., Steveston 504 Lake St., Nelson Stuart Island 13495 King George Hwy., Whalley Tofino 2045 Columbia Avenue, Trail 3160 Highway Drive, Trail 575 Pembroke St., Victoria Valemont 3002-34th Street, Vernon 1671 East Hastings St., Vancouver 6 655 W.7th Ave., Vancouver 1663 Venables St., Vancouver 1683 Venables St., New Westminster 4132 Halifax St., Burnaby 1705 W. Georgia St., Vancouver 5 Westview 1100 Commox Road, Courtenay 6280 McKay Ave., S. Burnaby S. Mackenzie Ave., Williams Lake Williams Lake 11890-10th Ave., Haney 1331 Venables St., Vancouver

# 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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