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FEED MANUFACTURERS

1962

ANNUAL CENSUS OF MANUFACTURES

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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.

FEED MANUFACTURERS

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Tabular presentations of statistical data in this publication show more details than were contained in previous catalogues for this industry. Basically the information has been expanded to reflect total activity of the establishments, whereas in previous years the data published represented the manufacturing operations. For explanation of definitions and tabular details, please refer to table footnotes and also the Explanatory Notes on the pages following Table 9.

Prior to 1953 the grain processing industries were classified as follows:

- (a) Flour and Feed Mills Industries.
- (b) The Prepared Stock and Poultry Feeds Industry.
- (c) Breakfast Foods Industry.

In 1953 the classifications were revised to permit presentation of livestock feeds in one publication. The decision required combining the feed mills with the Prepared Stock and Poultry Feeds Industry.

Under the Standard Industrial Classification (Revised 1959) the grain processing industries are presented in the following publications:—

- (a) Feed Manufacturers includes all establishments which manufacture prepared feeds, chopped grain feeds on own account and carry on a service operation of custom milling and chopping. This group, however, does not include those establishments, which manufacture flour and which may produce, in addition, prepared and chopped grain feeds. Historically, the Feed Milling Industry as it existed prior to 1953, has now been removed from its statistical association with flour milling and has been combined with the former Prepared Stock and Poultry Feed Industry. The Industry will henceforth be referred to as the Feeds Industry.
- (b) Flour Mills includes all establishments which primarily produce wheat flour in any quantity. Therefore it would necessarily include feeds in any form manufactured by these establishments, with one exception. Some of the larger milling companies which conduct separate feed milling divisions, provide two reports; one covering their flour milling activity and the second covering their feed production activities. In this latter case, the feed report is included in the Feeds Industry.
- (c) Breakfast Cereal Manufacturers includes all firms which manufacture prepared breakfast foods. The industry also includes some of the large flour milling companies which maintain separate specialized cereal divisions.

Distribution by Form Size Compiled for Feed Manufacturers, 1962

Establishments reporting on	Number of establishments	Percentage of total number of establishments	Value of shipments	Percentage of total value of shipments
			\$'000	
Long forms	401	43.6	278, 494	86.5
Intermediate forms	186	20. 2	28,493	8.8
Short forms	333	36. 2	15, 114	4.7
Totals	920	100.0	322, 101	100.0

TABLE 1. Principal Statistics - Manufacturing Activity, 1957-61

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Emp!	loyees					**-1	
Year	Estab- lish- ments		ion and workers*		rative and	То	tal ⁴	Cost of fuel and elec-	Cost of materials and supplies	Value of shipments of goods of own	Value added
	11101100	Number	Wages	Number	Salaries	Number	Salaries and wages	tricity4	used*	manu- facture*	
	No.		\$'000		\$'000				\$'000		
1957	1,007	4.814	12,771	2,127	6,391	6,941	19,162	3,697	170,961	222, 515	
1958	989	4,941	14,342	2, 162	7.363	7, 103	21,704	3,639	201,934	260, 512	55,861
1959	963	4,967	15.071	2, 131	7,771	7,098	22,842	3,878	206, 040	269,000	60,189
1960	970	4, 839	15,316	2, 144	8,027	6,983	23,343	3,918	197, 110	258.537	57,017
1961	958	4,795	15,676	2, 244	6, 837	7,039	24,513	4,506	225, 931	289, 661	59,617

See footnotes following Table 3 A.

TABLE 1A. Principal Statistics - Manufacturing Activity and Total Activity,' 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Manu	facturing	activity				T	Total acti	vity	
Year and	Estab- lish-		duction a ted works		Cost of	Cost of	Value of shipments	27-1	Working and pa			otal oyees ⁷	Total
province	ments	Number	Man- hours paid	Wages	fuel and elec- tricity ⁵	and supplies used4	of goods of own manu- facture ⁴	Value added	Number	With- drawals	Number	Salaries and wages	value added
	No.		1000			\$'000				\$'000		\$'0	00
1961													
New foundland	1	1 42	93	97	35	1,096	1,365	227	13	30	56	150	30
Prince Edward Island	14	1	83	01	35	1,050	1,505	221	13	30	50	150	30
Nova Scotia	11	68	151	183	49	4.645	5,622	928	} 4	4	J 115	341	1,06
New Brunswick	14	171	371	474	91	6, 596	7,884	1,182			376	1,292	2, 28
Quebec	332	1,473	3,591	4,582	1,246	75,332	92,164	15,555	163	457	2,459	8,068	18,47
Ontario	445	2,164	4,986	7.132	2,184	96, 543	127,027	28,729	248	739	3,699	13,560	33,76
fanitoba	36	164	369	585	181	9,070	11,963	2,742	11	24	269	1.053	3, 11
askatchewan	7	45	93	161	44	1,807	2.535	718	-	-	85	312	81
Alberta	54	218	507	815	197	10,316	13,996	3,506	23	60	393	1,492	3,77
British Columbia	40	449	887	1,672	472	21.565	28, 443	6,369	7	30	898	3,556	7, 26
Totals	954	4, 794	11, 047	15, 702	4, 498	226, 973	296, 999	59, 956	469	1,344	8, 350	29, 823	70, 86
1962									4			1	
lewfoundland	1	} 20	50	50	37	1,032	1,344	268	13	31	43	134	28
rince Edward Island	14	5 20	50	50	31	1,032	1,344	200	13	31	40	192	20
lova Scotia	11	64	134	186	53	5, 029	5,973	916	} 6	9	J 114	347	1, 16
ew Brunswick	15	159	352	469	91	6,750	8,362	1,529	1		367	1,307	2, 63
uebec	322	1,408	3,378	4.554	1,355	84,752	105, 269	19,365	160	526	2,517	8,744	22,60
Ontario	420	2,039	4,647	6.872	2.215	101,421	134,395	30,699	219	737	3.471	13,152	36,69
lanitoba	35	197	458	733	254	11,839	15,489	3,473	9	28	334	1,320	4,05
askatchewan	10	58	130	218	86	4, 190	5, 226	955	-	-	107	400	1,03
lberta	53	217	514	881	207	12.598	16,414	3,667	24	72	379	1,651	3,97
British Columbia	39	433	850	1,625	482	23,340	29,629	5,872	4	23	885	3,554	7,62
Totals	920	4, 595	10, 514	15, 588	4,781	250,950	322, 101	66,744	435	1,426	8, 217	30,610	80,06

See Table 2 and footnotes following Table 3A.

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Man	ufacturing	activity				7	Total acti	vity	
Size group	Estab- lish-		oduction ated work		Cost of	Cost of	Value of shipments			owners rtners		otal loyees ⁷	Total
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity ⁵	and supplies used	of goods of own manu- facture*	Value added	Number	With- drawals	Number	Salaries and wages	value added
1001	No.		'000			\$'000				\$'000		\$'0	00
1961 Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 99,999 100,000 " 199,999 200,000 " 499,999 500,000 " 999,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units 10	78 67 111 210 210 175 47 49 7	14 47 122 486 746 1,064 618 1,287 410	20 81 251 1,089 1,729 2,537 1,423 2,985 931	21 96 284 1, 251 2, 046 3, 180 2, 079 4, 778 1, 965	32 51 149 422 750 1,089 602 1,057 346	91 856 3,124 12,349 23,259 40,345 25,913 76,645 44,390	277 1, 259 4, 287 15, 833 30, 181 51, 697 33, 819 96, 939 56, 707	154 347 1,018 3,106 6,243 10,430 7,389 19,396 11,874	71 58 101 113 89 33 4	96 137 267 367 314 136 27	18 56 173 822 1,319 1,824 1,036 2,277 815	26 110 425 2, 252 3, 904 5, 832 3, 954 9, 071 4, 201	187 525 1,573 4,693 8,407 12,984 8,238 22,126 12,135
Totals	954	4, 794	11,047	15,702	4,498	226, 973	290, 999	59, 956	469	1, 344	8, 350	29, 823	70, 86
1962												-	
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 199,999 200,000 " 499,999 200,000 " 499,999 500,000 " 499,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units ¹⁰	54 56 93 184 211 205 54 57 6	7 29 94 417 683 1,099 620 1,277 369	14 73 220 970 1,578 2,554 1,394 2,877 833	15 84 258 1,150 1,952 3,391 2,066 4,887 1,785	19 45 126 477 687 1, 275 615 1, 248 290	73 667 2, 384 10, 161 23, 091 49, 032 29, 208 90, 951 45, 385	197 1,003 3,395 13,582 29,763 62,321 37,502 116,317 58,020	104 296 869 3,072 5,943 12,186 7,772 24,130 12,372	52 55 86 117 73 49 3	75 142 266 417 277 226 24	7 35 129 617 1,236 1,936 1,096 2,446 710	15 102 376 1,768 3,836 6,387 4,144 10,127 3,824	118 392 1, 149 4, 150 8, 440 16, 151 9, 188 27, 642 12, 840
Totals	920	4, 595	10, 514	15, 588	4, 781	250.950	322, 101	66, 744	435	1.426	8,217	30, 610	80, 067

See footnotes following Table 3 A.

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Man	ufacturing	activity				7	rotal acti	vity	
Size group	Estab- lish-		oduction ated work		Cost of	Cost of	Value of shipments	Value	Working and pa	owners rtners		otal oyees ⁷	Total
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity ⁵	and supplies used ⁴	of goods of own- manu- facture4	added ⁴	Number	With- drawals	Number	Salaries and wages	value added*
1961	No.		'000		1	\$'000				\$'000		\$'0	00
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 99,999 100,000 " 199,999 200,000 " 499,999 500,000 " 49,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units ¹⁹	261 299 180 113 42 40 9	233 748 735 796 501 832 360 589	477 1,705 1,733 1,876 1,172 1,978 790 1,316	546 1,913 2,115 2,410 1,620 3,029 1,433 2,636	268 691 651 865 455 844 288 435	8, 431 22, 940 27, 919 33, 435 21, 188 39, 396 24, 937 50, 729	7, 964 28, 534 34, 957 41, 680 27, 492 51, 699 31, 112 67, 560	1, 244 4, 950 6, 400 7, 501 5, 933 11, 604 5, 853 16, 272	218 166 66 16 3	483 525 240 72 23	347 1, 280 1, 305 1, 296 } 825 1, 409 735 1, 143	869 3,531 3,984 4,292 3,020 5,672 2,926 5,482	2,031 7,745 8,515 9,494 6,594 12,568 7,117 16,804
Totals	954	4, 794	11,047	15, 702	4, 498	226, 973	290, 999	59, 956	469	1, 344	8,350	29, 823	70, 864
1962 Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 199,999 200,000 " 499,999 500,000 " 499,999 1,000,000 " 4,999,99 5,000,000 and over lead offices, sales offices and auxiliary units 10	198 303 187 1 18 55 39 10	140 737 729 737 614 671 435 532	342 1,728 1,685 1,696 1,423 1,533 919 1,189	389 2,046 2,118 2,279 2,175 2,426 1,742 2,414	214 767 793 770 724 682 415 415	5, 130 24, 493 29, 950 34, 571 34, 898 38, 925 28, 374 54, 610	6, 325 30, 399 37, 527 43, 454 43, 628 51, 144 36, 470 73, 154	946 5, 156 6, 841 8, 268 8, 114 11, 710 7, 739 17, 970	187 166 55 22 { 5	454 595 244 102 31	209 1, 214 1, 316 1, 235 1, 118 1, 181 1, 028 911	632 3,540 4,130 4,140 4,452 4,804 4,719 -	1,640 8,124 9,321 10,724 9,124 12,507 10,155 18,474
Totals	920	4, 595	10, 514	15, 588	4, 781	250, 950	322, 101	66, 744	435	1, 426	8, 217	30, 610	80.067

See footnotes following Table 3 A.

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Man	ufacturing	activity					Total act	ivity	
Size group	Estab-		oduction ated work		Cost of	Cost of	Value of shipments	Malua		owners artners		otal oyees"	Total
	ments	Number	Man- hours paid	Wages	fuel and elec- trlcity ³	and supplies used ⁴	of goods of own manu- facture ⁴	Value added	Number	With- drawals	Number	Salaries and wages	value added*
	No.		'000			\$'000				\$'000		\$'0	00
1961													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999 200,000 '' 499,999 500,000 '' 499,999 1,000,000 '' 4,999,999 5,000,000 and over Head offices, sales offices and	201 252 217 156 61 45 11	131 533 753 876 628 852 357 664	245 1,192 1,769 2,053 1,495 2,023 797 1,472	279 1,314 2,103 2,602 2,035 3,079 1,421 2,868	166 497 644 933 582 900 307 469	3.726 15.601 27.194 35.692 24,141 40,409 25,877 54,333	4,757 19,439 33,797 44,822 30,937 52,861 32,536 71,848	840 3,370 5,983 8,268 6,338 11,906 6,341 16,911	175 176 92 20 { 6 —	357 531 336 78 41	166 788 1,240 1,577 1,085 1,495 613 1,376	360 2,011 3,676 4,979 3,926 6,045 2,415 6,362	970 4,314 7,764 11,058 8,256 13,041 6,999 18,465
auxiliary units10	954	4. 794	11.047	15, 702	4, 498	226.973	290, 999	59, 956	469	1,344	8, 350	48 29, 823	70, 864
1962	154	00	101	100	108	0.500	2 200	an?		240		000	804
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 99,999 100,000 " 199,999 200,000 " 499,999 5,00,000 " 4,999,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units ¹⁰	154 232 209 172 78 54 8 13	67 457 685 828 714 865 289 690	161 1,063 1,593 1,929 1,650 1,986 605 1,528	177 1,212 1,922 2,563 2,438 3,076 1,173 3,027	127 485 698 890 814 922 293 552	2,590 14,564 25,779 38,093 36,049 49,241 22,333 62,301	3,360 18,428 32,148 47,649 45,157 63,707 28,115 83,537	622 3,389 5,693 8,780 8,441 13,747 5,529 20,543	154 166 82 23 10	340 571 350 102 62 —	77 605 1,146 1,570 1,223 1,629 570 1,392	208 1,652 3,456 5,138 4,751 6,406 2,345 6,624	738 4,041 7,520 12,059 10,701 15,872 5,888 23,249
Totals	920	4,595	10,514	15,588	4.781	250,950	322, 101	66, 744	435	1, 426	8, 217	30, 610	80, 06

See footnoies following Table 3 A.

TABLE 1E. Principal Statistics classified by Size Groups based on Total Employed, 11 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept 2

				Man	ufacturing	activity					Total acti	vity	
Size group	Estab- lish-		oduction ated work		Cost of	Cost of	Value of shipments	Value	Working and pa	owners artners*		otal oyees"	Total
	ments	Number	Man- hours paid	Wages	fuei and elec- tricity ⁵	and supplies used	of goods of own manu- facture	added4	Number	With- drawals	Number	Salaries and wages	value added
	No.		,000			\$'000				\$'000		\$'0	00
1961		1											
7nder 5 employees	442 389 100 14	542 1,694 1,436 497	1,174 3,989 3,350 1,166	1,363 4,860 4,609 1,913	601 1.570 1,401 483	19,624 62,378 69,600 26,748	25,327 79,347 87,673 36,767	5, 120 15, 510 17, 271 9, 609	351 110 8	902 394 48	681 2,960 2,436 871	1,753 9,270 8,963 3,431	6, 327 20, 555 20, 066 9, 878
00 - 199 **	} 9	625	1,368	2,758	444	48,623	61,684	12,447	-		1,392	6,359	14.042
00 employees and over lead offices, sales offices and auxiliary units10	, –	-	-			-		-	-	-	10	48	(3
Totals	954	4, 794	11,047	15, 702	4,498	226, 973	290, 999	59, 956	469	1,344	8,350	29, 823	70, 864
1962													
Inder 5 employees 5- 14 employees 15- 49 " 50- 99 " 00-199 " 00-499 " 00 employees and over lead offices, sales offices and auxiliary units ¹⁰	415 384 98 14 6 3	528 1,715 1,287 446 402 217	1,240 3,976 2,919 1,044 878 456	1.464 5.169 4.509 1.739 1.875 833	666 1,820 1,436 381 333 144	22,002 73,393 75,753 27,819 42,007 9,976	28, 197 92, 790 96, 536 38, 040 54, 245 12, 293	5,583 17,710 19,565 9,793 11,893 2,181	327 101 7 - - -	965 414 47 — — —	674 2, 956 2, 355 834 753 640	1,958 9,748 9,022 3,409 3,929 2,514	6,828 23,372 23,339 10,069 12,443 4,018
Totals	920	4,595	10, 514	15, 588	4, 781	250, 950	322, 101	66, 744	435	1,426	8.217	30,610	80, 06

See footnotes following Table 3 A.

TABLE 1F. Principal Statistics classified by Type of Organization, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

				Man	ufacturing	activity					Total ac	tivity	
Type of organization	Estab- lish- ments		oduction ited work		Cost of	Cost of materials	Value of shipments	Value		owners ortners		otal oyees?	Total
	mento	Number	Man- hours paid	Wages	fuel and elec- tricity ⁵	and supplies used4	of goods of own manu- facture ⁴	added4	Number	With- drawals	Number	Salaries and wages	value added
	No.		'000			\$'000				\$'000		\$*0	00
1961								1	1				
Individual ownerships	354	609	1,348	1,490	601	20,710	26,349	5,087	336	947	728	1,784	6,138
Partnerships	81	176	391	471	190	6,386	8,261	1,731	133	397	223	599	2,084
Incorporated companies	317	2,819	6,529	10,143	2,748	146,577	190,405	41,340			5,100	20,010	45, 999
Cooperatives	202	1,190	2,779	3, 597	960	53,300	65, 984	11,799		-	2,289	7,382	16,647
Head offices, sales offices and auxiliary units10											10	48	(3)
Totals	954	4,794	11,047	15, 702	4, 498	226, 973	290, 999	59, 956	469	1,344	8,350	29, 823	70, 864
1962						_							
Individual ownerships	324	587	1,375	1,556	611	21,653	27, 447	5, 195	311	1,026	702	1,892	6,244
Partnerships	68	140	314	410	162	5,473	7,199	1,559	1 24	400	174	501	1,966
Incorporated companies	328	2,763	6,249	10,114	2,933	165,015	214,627	46,933			5,035	20,490	53, 479
Cooperatives	200	1,105	2,577	3,508	1,075	58, 809	72,827	13,057	_	_	2,301	7,697	18,380
Head offices, sales offices and auxiliary units 10			. 4 0	. 1 .	. 1 4						5	30	(2)
Totals	920	4, 595	10, 514	15,588	4, 781	250, 950	322, 101	66, 744	435	1,426	8, 217	30, 610	80, 067

See footnotes following Table 3 A.

TABLE 2, Industry Outputs, Inputs and Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Item	1961		196	2
		\$'000		
Manufacturing activity:				
Value of shipments - Goods of own manufacture		290, 999		322, 101
Add: Closing inventory - Goods in process	640		773	
Finished goods	5,820	6,459	5,809	6,582
Deduct: Opening inventory - Goods in process	543		671	
Finished goods	5, 487	(6,030)	5,537	(6,208)
Gross output - Manufacturing activity		291,428		322, 475
Deduct: Cost of materials and supplies used in manufacturing activity	226,973		250,950	
Cost of fuel and electricity used	4,498	(231,471)	4,781	(255, 731)
Value added — Manufacturing activity		59, 956		66,744
Non-manufacturing activities:				
Value of shipments — Goods not of own manufacture				86,097
Add: All other revenue			1,271	
Closing inventory - Goods purchased for resale	4,438		5,139	6,410
Deduct: Purchases of goods for resale as such			73,363	
Opening inventory - Goods not of own manufacture	4,138		5,091	
Cost of all other materials and supplies used		()	729	(79, 183)
Value added - Non-manufacturing activities		10, 908		13,323
Total value added	70, 86	4	80,06	7

See footnote following Table 3 A.

TABLE 3. Employment and Payroll, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept?

					Emp	loyees						Salari	es and v	Vagra	
Year		Product: related				ninis- tive		les,		otal	Producti		Admin- istra-	Sales,	Total
and province	Manufi	acturing4	Ot	her°	and o	ffice*,9	distri	bution*	empro)yees	related w	orkers	tive	and distri-	salarie:
	Maie	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	and office	bution	wages
1961					nu	mber							\$'000		
Newfoundland Prince Edward Island	} 42	- 1							55	1	97				150
Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	68 163 1,467 2,092 164 45 215 429	8 6 72 - 3 20	0 d 0 d 0 0 0 d 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* * * * * * * * * * * * * * * * * * *	106 302 2,278 3,387 258 77 369 792	9 74 181 312 11 8 24 106	183 474 4,582 7,132 585 161 815 1,672		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	341 1,292 8,068 13,560 1,053 312 1,492 3,556
Totals	4,685	109	* *						7, 624	726	15,702	, .		9 4	29,823
1962 Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	20 64 159 1,401 1,962 197 57 213 413	7 77 1 4 20	- - 4 13 2 1 1	- - - - - - 1	9 19 36 421 575 77 22 65 117	9 14 166 200 18 8 21 87	14 21 103 515 622 40 16 72 222	1 55 3 22 - 2 3 12	43 104 298 2,341 3,172 316 96 351 765	10 69 176 299 18 11 28 120	50 186 469 4,554 6,872 733 218 881 1,625	12 37 5 4 3	36 87 185 2,314 3,461 402 113 430 1,004	48 73 653 1,864 2,780 181 65 337 884	134 347 1,307 8,744 13,152 1,320 400 1,651 3,554
Totals	4, 486	109	34	1	1,341	1,523	1,625	98	7,486	731	15,588	104	8, 033	6,885	30,610

See footnotes following Table 3 A.

TABLE 3 A. Production and Related Workers, 4- Manufacturing Activity, by Months, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

Month	Establishment: monthly	s reporting letail	Establishments quarterly	s reporting detail
	Male	Female	Male	Femula
		number		
January February March April May June June July August September October November December	3, 422 3, 399 3, 430 3, 469 3, 510 3, 569 3, 537 3, 552 3, 532 3, 472 3, 450 3, 382	117 114 108 108 112 107 96 115 122 123 118 107	586 599 599 585	
Average for establishments reporting monthly detail (collected only for large est Average for establishments reporting quarterly detail (collected only for medium Average for small establishments (only annual averages collected) Monthly averages			3,483 589 414 4,486	10

1 See Table 2 and Explanatory Notes concerning manufacturing and non-manufacturing activities.

³ See Explanatory Notes.

³ This category, in this table only, includes working owners and partners. Since administrative and office employees are engaged in a variety of activities they have been excluded from manufacturing activity beginning with the revised 1961 series shown in the following tables. They are included here for purposes of comparison with the tabulations of previous years.

⁴ Conceptually identical to previous years. See Explanatory Notes.

Cannot be reported separately for manufacturing and non-manufacturing activities but related substantially to manufacturing activity. Identical concept to previous years.

6 Working owners and partners were included with administrative and office employees in the "Manufacturing series" published in former years. See Ex-

planatory Notes.

Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the

Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the treatment of head office employees and those employed in auxiliary units.

Value of total shipments and other operational revenue less total cost of materials, supplies, fuels used and purchases of products and materials for resale in the same condition; all adjusted for inventory changes where required. See Table 2 and Explanatory Notes.

Sales and distribution workers and production workers (non-manufacturing) are included for the first time as a result of the full implementation of the new definition of the establishment. The figures for production workers (non-manufacturing), administrative and office employees and sales and distribution workers are not yet available for 1961 but form part of total employees. Sales and distribution workers may include some employees that are reported as part of a manufacturing establishment but are not working at the establishment's location. Head offices, sales offices, etc., which report separately are included in the figures for the province in which they are iocated.

These data cover the activities reported by separately located units such as head offices, sales offices, administrative offices, laboratories, warehouses, etc. Such units do not usually constitute separate "establishments" as they do not normally generate all the necessary elements of input and output statistics. See Explanatory Notes which deal with Single and Multi establishments for a complete explanation of procedures.

Note: Element and office employees and working owners, but excludes unpaid family workers.

Note: Figures may not add due to rounding.

TABLE 4. Materials and Supplies Used in Manufacturing Activity, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Quantity	Cost
aterials used;	tons	\$'000
Grains:		
Wheat	385, 573	23, 002
Oats	394, 357	20, 204
Corn	535, 072	28, 505
Barley	462, 171 606	24, 084
Buckwheat Rye	4. 094	34 200
Flax	353	31
Peas	1, 224	189
Mixed grains	32, 295	1,654
Other grains, all kinds Screenings (including seed screenings)	8, 975 188, 690	423 6, 954
Grain by-products:		
Wheat flour (feed, etc.)	7, 731	536
Other flour	407	59
Bran, shorts and middlings	309, 618	15, 997
Oatmeal, oat middlings, and oat groats	10, 428	779
Wheat germ	2, 082	165 307
Cornmeal, corn grits, cracked corn and corn germ. Hominy feed.	4, 840 119	307
Gluten feed and meal	19, 124	1, 202
Cereal feed and wheatlets	4, 894	338
Brewers' and distillers' grains	32, 344	1, 767
Malt sprouts Rice feeds	8, 040 2, 892	373 121
Mixed concentrates, supplements and premixes;		
Calf	4, 299	444
Dairy and cattle	39, 712	3,673
Swine Poultry	58, 645 65, 972	6, 402 7, 544
Other	101	24
Oil seed products:		
Linseed oil cake and meal	13, 893	1, 142
Soybean oil cake and meal Other oilcake meals	373, 226 17, 360	32, 017 1, 165
Legumes and grasses;		
Legumes and grasses (alfalfa, etc.)	58, 844	1, 459
Legume and grass meal, dehydrated Legume and grass meal, sundried	41, 851 6, 336	2, 683 261
Fishery by-products:		
Fish and liver meal	34, 928	5, 054
Oyster and clam shell	4, 577	123
Fish, fresh or frozen Fish solubles	9, 159 2, 407	684 162
Mach and Andrew by goods to	i	
Meat and tankage by-products: Blood meal (dried blood)	4,718	484
Bone meal	2,594	230
Bone char	220	13
Lung and liver meal	192	21
Meat meal	84, 380 19, 949	7, 734 1, 943
Feeding tankage	30, 411	2, 760
Tankage n.e.s.	159	12
Miscellaneous materials:		
Buttermilk powder	5, 422	639
Skim milk powder	6,011	828
Whey powder	3, 339	310
Molasses Beet pulp	64, 852 11, 892	2, 310 659
Limestone (calcium carbonate)	57, 815	589
Grit and gravel	5, 763	124
Salt	31, 359	829
Sugar Wineral mixtures	2, 082 6, 613	325 680
Mineral mixtures Drugs:	0, 013	000
Antibiotics	1, 581	2, 222
Other (coccidiostats, etc.)	1,090	1, 565
Phosphate rock and other phosphates	34, 659	2, 646

See footnote at end of table.

TABLE 4. Materials and Supplies Used in Manufacturing Activity, 1962 - Concluded

Description	Quantity	Cost	
	tons	\$'000	
Materials - Concluded:			
Miscellaneous materials - Con.: Vitamins and vitamin compounds feeds enrichment Urea Yeast Seeds, (clover, sunflower, millet, etc.) Oils, animal, fish etc. (including tallow) Distillers' soluble Tin plate All other materials and components used?	2,852 5,596 750 1,395 20,983 1,961 3,500	1, 874 580 172 208 2, 492 160 732	
Containers and other packaging materials and supplies used	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11, 042	
Operating, maintenance and repair supplies used (excluding fuel)		2, 599	
Amount paid out to others for work done on materials owned by establishments	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	218	
Total		250, 950	

¹ See Explanatory Notes.
² No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. In 1962 these estimated costs were \$11,037,342.

TABLE 5. Fuel and Electricity Used¹ in Manufacturing Activity,² 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept³

Description		Quantity	Cost
			\$1000
. Large establishments which reported commodity detail:			
Bituminous coal:			
(a) From Canadian mines	ton	1, 107	14
(b) Imported	14	3,070	39
Sub-bituminous coal (from Alberta mines only)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	52	1
Anthracite coal		299	7
Lignite coai		2, 165	12
Coke		503	15
Gasoline (including gasoline used in cars and trucks)		3, 277, 663	1, 157
Fuel oil including kerosene or coal oil	P4	3, 635, 162	467
Wood		224	2
Gas:			
(a) Liquefied petroleum gases	Imp. gal.	98, 532	30
(b) Other manufactured gas		659	
(c) Natural gas		378, 273	190
Other fuel			2
Electricity purchased	kwh.	103, 554, 101	1,659
Steam purchased		4 * *	90
. Medium size establishments which reported only group detail:			
Fuel		4 4 6	292
Electricity	***************************************	***	321
. Estimate for small establishments for which no data were collected:			400
Fuel and electricity		•••	482
. All establishments:			
Total fuel and electricity used			4.781

Does not include fuel and electricity produced for own use.
Includes only fuel and electricity purchased. Conceptually identical to previous years in that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.
See Explanatory Notes.

TABLE 6. Shipments of Goods of Own Manufacture, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description		Quantity	Value
			\$'000
Products:			
Wheat flour:			
Enriched, all grades	cwt.	32, 232	154
Non-enriched, all grades	44	190,609	852
Breakfast foods:			
Prepared, ready to serve		3	3
Unprepared:			
Oatmeal Rolled oats		3	3
Unprepared breakfast cereal		3	3
Bran shorts and middlings	ton	3,565	185
Primary premixes and concentrates - for complete feeds:			
	1		
Concentrates:	44	6, 223	644
Dairy and cattle	44	123,827	10,598
Swine Poultry:	-	112,683	12,346
Chick starter		3	3
Broiler Growing, laying and hatching	ton	90,793	9,837
Fattening and finishing		3	3
Turkey Other poultry n.e.s.		3	3
All other concentrates n.e.s.	ton	5,038	572
Premixes;		0,000	V12
Dairy cattle	A Date	3	3
Swine Poultry	ton	25,179	3,037
All other premixes n.e.s.		3	3
Sprondary or complete feeds:			
Calf	ton	38, 483	4, 124
Dairy and cattle	14	488, 481	34, 329
Swine Poultry:	44	643, 364	50,408
Chick starter		3	3
Brotler	ton	500 004	46 640
Growing, laying and hatching Fattening and finishing	ton	569,924	46,643
Turkey Other poultry n.e,s.	ton	199,476	18, 130
Horse feeds n.e.s.		3	3
	ton	155, 304	11,736
Miscellaneous animal and pet feeds:		1	
Dog and cat:			
Canned	ton	68.084	13,546
Blscuits Other	44	3,656	1,030
	ton	1,538	100
Mink	44	20,991	182 2,544
Rabbit	ton	33.078	3
Chopped, ground crushed feeds:	rOH.	33,018	2,305
Oats Barley	61	98, 145	5,729 5,597
Other grains, chopped etc.	64	95,627 171,084	10,943
Screenings	64	57,892	2, 290
All other feeds n.e.s.	2.4	31,321	2,961
Other products:			
Mineral mixtures	ton	17,828	1,881
Veterinary medicines Legume and grass meals, dehydrated, all kinds			74
Legume and grass meals, denydrated, all kinds Legume and grass meals, sundried, all kinds	FOIJ	43,544 8,273	2,746 353
All other products			63, 561
			0.000
ount received in payment for work done on materials and products owned by others			3, 303
ess adjustment for value of sales taxes, excise duties and outward transportation charges which coul dividual commodity items described above	d not be	e deducted from in-	(541)
et adjustment for establishments receiving progress payments ²			-
Total adjusted value of shipments and work done			322, 101

See Explanatory Notes.
 See footnote 1, Table 7.
 Confidential; included with "All other Products". — See Table 8 for all industries data.

TABLE 7. Industry Inventories, 19621

Basis: Revised Standard Industrial Classification and New Establishment Concession

		Manufa	Non- manufacturing						
Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture ⁵	Total manufacturing	Products or materials purchased for resale	Total inventories			
Opening:	book value \$'000								
Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	} 95 486 859 5,614 6,391 659 225 737 2,116	3 201 401 36 3 27	20 52 127 1,702 3,044 406 103 334 448	115 538 989 7,517 9,836 1,101 328 1,074 2,591	49 130 471 1,528 2,145 116 158 54	164 668 1,466 9,04! 11,98 1,217 484 1,128 3,031			
Totals ⁴	17, 183	671	6, 238	24,092	5,091	29, 18			
Closing: Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec	93 443 775 5,530	2 230	14 78 135 1,862	107 521 912 7,622	27 134 694 1,493	134 655 1, 600 9, 116			
Ontario Manitoba Saskatchewan Alberta British Columbia	6, 532 833 347 896 2, 299	423 81 2 3 32	2,931 421 107 392 509	9,886 1,335 456 1,291 2,840	2,079 98 117 81 414	11, 96 1, 43 57 1, 37 3, 25			
Totals ⁴	17, 748	773	6, 449	24, 970	5, 139	30, 109			

TABLE 8. Shipments of Goods of Own Manufacture - All Industries, 19611 and 19621

Description		19	61	1962		
Description			Value	Quantity	Value	
			\$'000		\$'000	
Wheat Flour:						
Enriched, all Grades Non-Enriched, all Grades		23,804,806 15,579,071	103.761 65, 264	23, 102, 103 16, 366, 105	107, 754 73, 884	
Breakfast Foods:	1					
Prepared, Ready to Serve Unprepared:	. ton	53, 313	33, 772	53, 357	35, 37	
Oatmeal	4.6	12, 248	1,305	12,880	1,53	
Rolled Oats		41,818	8, 197	34, 40 i	8,383	
Unprepared Breakfast Cereal	. 44	8,874	1,978	8, 543	2, 23	
Bran Shorts and Middlings	4.6	643, 511	26, 280	639,808	31, 25	
Primary Premixes and Concentrates — For Complete Feeds:						
Concentrates:						
Calf		5, 182	486	6,392	669	
Dairy and Cattle		131, 027 116, 704	11, 251	126, 239 113, 599	10,81	
Swine		116,704	12, 289	113, 599	12, 45	
Poultry: Chick Starter	44	9, 126	1,067	4.413	589	
Broiler		20, 553	2, 439	15,662	2.01	
Growing, Laying and Hatching	4.4	96, 406	9,599	93, 397	10, 149	
Fattening and Finishing		605	64	3,026	31.	
Turkey		21, 985	2, 463	21,908	2, 59	
Other Poultry, n.e.s.		900	94	2, 703	27	
All Other Concentrates, n.e.s,		2,775	253	5, 038	57:	
Premises: Dairy Cattle	4.6	6, 471	571	11, 893	1.06	
Swine		14, 708	1, 282	25, 179	3.03	
Poultry	44	26, 403	3 446 -013	- 26, 854	4, 15	
All Other Premixes, n.e.s.		6,603	667	4, 599	52	
Secondary or Complete Feeds:						
Calf	1.0	38,032	3,927	39,080	4, 188	
Dairy and Cattle	44	458, 312	30, 479	497,646	34,939	
Swine		621,860	44, 907	657, 196	51,55	

¹ Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed above.

¹ Values represent book values of inventories 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.

¹ See Explanatory Notes.

¹ The opening inventories may differ from the closing inventories for the previous survey 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.

⁴ Figures may not add due to rounding.

⁵ The difference between figures in this table and those in Table 2 arises from firms reporting output of products on the basis of production rather than of shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 2.

TABLE 8. Shipments of Goods of Own Manufacture - All Industries, 1961 and 1962 - Concluded

Description	1961		1962	
and the state of t	Quantity	Value	Quantity	Value
		\$'000		\$'000
condary or Complete Feeds - Concluded:				
Poultry:			-	
Chick Starter ton	81,210	6.979	87, 177	7.788
Broiler	347, 114	30.285	357, 969	33, 02
Growing, Laying and Hatching	562, 124	43.536	578, 414	47.35
Fattening and Finishing	34, 397	2, 756	44, 968	3.94
Turkey	183,908	15,543	209.961	19.06
Other Poultry, n.e.s.	17,905	1.624	22, 801	2.04
Horse Feeds, n.e.s.	4,848	355	5,541	42
Mixed Feeds, n.e.s.	157,920	11,896	439,603	28.10
scellaneous Animal and Pet Feeds:				
Dog and Cat:		-		
Canned ton	77,533	15, 171	79,935	16,02
Biscuits	4,889	1, 217	3,656	1, 03
Other "	15.522	3, 206	22, 299	4. 26
Fox "	4,487	565	5, 456	70
Mink "	18, 143	1,993	21.391	2,60
Rabbit	4,481	398	4, 216	36
Scratch Feeds, n.e.s. "	47,461	3, 187	34,060	2, 37
Chopped, Ground Crushed Feeds:				
Oats	109,775	6, 296	99,612	5,81
Barley	102,641	5,670	96, 204	5,63
Other Grains, Chopped, etc.	186, 473	9,776	271, 264	16, 19
Screenings	≥ 260,648	4.121	132.912	6,03
All Other Feeds, n.e.s. "		817	* * *	2,85
her Products:				
Mineral Mixtures ton	16.473	1.741	18,086	1.92
Veterinary Medicines "	4.11	63	201000	5. 11
Legume and Grass Meals, Dehydrated, all Kinds	50, 405	3.111	43, 544	2, 74
Legume and Grass Meals, Sundried, all Kinds	8,697	301	8, 273	35

^{*} Includes subparents from other fedustries which manufacture, as a secondary activity, the premodifical tision shows.

TABLE 8 A. Custom Chopping and Grinding in Feed Manufacturers, 1962

Province	Wheat	Oats	Barley	Mixed grains	Other grains	Total	Amount received for custom chopping
		\$'000					
Newfoundland and Prince Edward Island	_	1, 698	25	13,477		15, 200	68
Nova Scotia	22	941	34	2.021	2	3,020	14
New Brunswick	- 1	4.924	-	7,600	600	13, 124	54
Quebec	11,779	107,082	52, 238	87,583	6,020	264,702	845
Ontario	14,811	82,870	28, 136	245, 191	15, 624	386,632	1,521
Manitoba	_	_	Patent,	26,427	-	26, 427	86
Saskatchewan	-	-	_	4, 129	440-	4,129	30
Alberta	4,247	20, 264	19,407	38,076	_	81,994	269
British Columbia	72	1,447	512	250	15	2, 296	9
Canada	30,931	219, 226	100, 352	424, 754	22, 261	797, 524	2, 896

Note: The Flour Milling industry had custom-grinding revenue in amount of \$37,414 and other retail and wholesale grinding establishments received \$1,134,569 for custom grinding.

TABLE 9. Capital and Repair Expenditures, 1960-62

Year	Capital expenditures			Repair expenditures			Total capital and repair expenditures		
	Construction	Machinery and equipment	Sub- total	Construction	Machinery and equipment	Sub- total	Construction	Machinery and equipment	Total
					\$'000				
1960	3, 438	5,970	9,408	737	2, 328	3,065	4, 175	8, 298	12,473
1961	3,010	4,834	7,844	725	2,426	3, 151	3,735	7,260	10,995
1962	1,515	4,054	5, 569	678	2,389	3,067	2, 193	6,443	8,636

Source: Business Finance Division. - DBS.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1962 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and special reports on geographical distribution and on type of ownership and size of establishments.

With the publication of the results of the 1962 Census of Manufactures, the Bureau has completed a major revision in the classification and concept of its annual census of manufacturing establishments. Because of its size and complexity, this project had to be carried out in three stages. The first stage was the change in classification and the results of the 1960 Census, together with the re-compilation of the 1957, 1958 and 1959 Censuses were published in the 1960 reports on the basis of the revised Standard Industrial Classification. This part of the project was confined entirely to a re-coding of existing reporting units. The second stage consisted of the implementation of the new definition of the reporting unit i.e. "establishment" as it applied to manufacturing activities of manufacturing establishments (See following note on "Establishment"). Results of the 1961 Census reflected this change in concept and, in order to provide comparability of data for recent years, the 1961 reports contained principal statistics on the basis of the new establishment definition for years back to 1957.

The third stage which was the extension of the definition of the establishment to cover total activities of manufacturing establishments is reflected in the statistics for 1961 and 1962 contained in this report. This full implementation of the new definition of the establishment has resulted in an extension of the data to non-manufacturing activities of manufacturing establishments and in additional changes in the 1961 statistics of manufacturing activities. Statistics on manufacturing activities will continue to be shown separately as in the past but, beginning with 1961, data on all operations (total activity) of manufacturing establishments will also be given. By definition "total activity" relates to all operational data and excludes such non-operational items as rent, interest and dividends. In addition, statistics on man-hours paid will be included as part of the regular series of industry statistics. For many industries, adjustments and revisions were made to the 1961 data on manufacturing activities which were published during the second stage to bring them in line with reporting procedures followed in the 1962 Census and to reflect the final application of the new concept. The 1961 statistics on manufacturing activities contained in this report are thus not entirely comparable with those published in the 1961 reports. However, the 1961 statistics are shown in this publication in both their original and revised forms in order to provide a link with the immediate past. A more complete account of recent changes and additions and brief descriptions of the principal industry statistics are given in following sections of these notes.

Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures and applied to the results of the 1957, 1958 and 1959 censuses provides for a breakdown of the manufacturing universe into 140 industries arranged in 20 major groups. Custom Tailoring Shops is the only industry class in the Manufacturing Industries Division of the classification which is not covered in the annual Census of Manufactures. It is surveyed as part of the Decennial Census of Merchandising and Service Establishments. Of the 140 "three-digit" industry classes in the Manufacturing Industries Division, 21 are further broken down into 67 "four-digit" sub-classes. With the exception of the Wood Preservation and Sound Recording industries, the figures for which are at present confidential and have to be included with those of related industries, the statistics for all of the "four-digit" sub-classes are published regularly. Thus, at the Canada level, principal statistics are compiled for 183 industries. These cannot all be published separately by province because of the confidential nature of the data in certain provinces.

Reporting establishments are classified or allotted to specific industries in the classification system on the basis of the value of principal products made or shipped. In general, establishments primarily engaged in repair work (Shoe Repair Shops. Motor Vehicle Repair Shops etc.) are not included in manufacturing industries. Exceptions are establishments primarily engaged in furniture, ship, boat, aircraft and railroad rolling stock repairs which are classified to the manufacturing industries producing the products involved. Establishments primarily engaged in assembling parts into complete units have always been included in manufacturing industries

Full details concerning the revised classification system are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics.

It should be noted that two new industries (Poultry Processors and Dental Laboratories) and three new groups of establishments (book publishers in the Publishing Industry, electro-plating establishments in the Metal Stamping, Pressing and Coating Industry and prescription branches in the Ophthalmic Goods Manufacturers Industry) have been included in the 1961 (revised) and 1962 Census statistics and will continue to be included thereafter. They were surveyed for the first time in the 1960 Census (1961 Census in the case of prescription branches) in line with the revised classification but, since they did not represent new production, they were removed from the 1960 and 1961 compilations published in the 1961 Census reports in order to provide complete comparability of data over the period 1957-61. Statistics for this period are repeated in the 1962 reports to supply a link with the revised 1961 data and the new 1962 statistics.

Establishment

The reporting unit in the Census of Manufactures is the **establishment**. The majority of establishments are firms, but many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described below.

Beginning with the 1961 Census of Manufactures the establishment is defined as follows:

"The smallest unit which is a separate operating entity capable of reporting all 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, Inventories, Shipments or sales."

Following is a description of the main features of the new establishment concept introduced in the 1961 Census, how they differ from those of the old "activity" concept and the steps taken to correct for breaks in continuity.

(a) The establishment is to be distinguished from smaller subdivisions or departments which do not have records that permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in activities which were classifiable to different industries. Beginning with 1961, separate reports for such activities are required only in cases where accounting records can provide the necessary input and output elements of principal statistics. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.1

(b) A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were primarily engaged in manufacturing. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics.

¹ Most of these adjustments were made when the results of the 1961 Census were being compiled. Since publication of these results in the 1961 reports additional adjustments were made to the 1961 data, as noted earlier, and these are reflected, where applicable, in the revised 1961 statistics contained in this report.

Again, adjustments were made to reflect the removal of such reporting units for the period 1957-60. These reporting units are now listed as establishments in other Bureau surveys, such as Wholesale Trade, Construction etc. This has resulted in a somewhat smaller universe represented by the Census of Manufactures. In terms of overall 1960 Census results, the number of establishments transferred to other industries totalled 2.786 or 8% but these represented only 0.7% of total employment and of total value of shipments of manufactured products. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed by the Industry Division for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

(c) A manufacturing establishment may be, and often is, engaged in other activities in addition to its principal manufacturing activity. Prior to 1961 the main emphasis in the Census of Manufactures was on manufacturing activity. Beginning with 1961, each establishment reports on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services etc.) are requested separately. However, the statistics published in the 1961 reports were confined to manufacturing activity only in order to maintain comparability with previous years and to permit a more thorough audit of the new data. The 1962 reports contain principal statistics on total activities of manufacturing establishments for 1961 and 1962 with the main elements of manufacturing activity shown separately as in the past. It should be noted that the statistics for separate activities are not completely consistent. Some respondents cannot distinguish in their records materials, shipments and inventories relating to own manufacturing activities from those relating to goods not of their own manufacture or to other activities and can report operational data in total only under manufacturing activity. This situation has always existed, however, and is not considered important enough to invalidate the use of the data in the measurement of manufacturing as an "activity". The values assigned by the respondent to materials and shipments of own manufactured goods include costs in varying degrees that relate to internal (to the establishment) transportation, warehousing and selling activities, but it is not possible to make adjustments to arrive at a uniform valuation for manufacturing activity only; although valuation at the establishment "boundary" must be accepted, the items valued under manufacturing activities still relate, in most cases, to "goods of own manufacture". In the case of employment only data on manufacturing production workers and manufacturing man-hours can be assigned, in total, to manufacturing activity; administrative and office employees can seldom be allocated to separate activities.

Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level, and for studies or statistical measures requiring accurate co-ordinated data, the "total" statistics should be used.

(d) Additional changes resulted from intensive editing and follow-up consistent with the introduction of the new concept. An example of such changes is the provision for the elimination, in total, of sales taxes and outward transportation charges from value of shipments. Prior to 1961, although the value of shipments for each product was requested excluding taxes and transportation charges, no allowance had been made for the reporting of these items in total when the respondents' records did not permit their deduction from the values of the individual products. Another example is a change in the valuation of shipments where, prior to 1961, a manufacturing company operating warehouses or sales outlets was reporting value of shipments in terms of an estimated manufacturer's price in accordance with the old activity concept, even though his records were not kept on this basis. Since the accounting boundary in such cases extends to distribution operations, the respondent was instructed in 1961 to report shipments at the final selling price in order to obtain more realistic and accurate data.2 Adjustments were made to the value of shipments for the period 1957-60 to reflect such changes and maintain continuity of the shipments data. Since no actual data to make these corrections were available for back years, 1961 adjustment ratios were applied to the previous years for each industry affected, on the assumption that the valuation changes in 1961 applied in equal proportions to the preceding period.3

(e) The new concept also demands that inventories held apart from plant be included with plant inventories if establishment boundaries extend to warehouses and sales outlets. Prior to 1961, compilations took into account only the inventories held at plant. In this case, however, most of the missing data were available from supplementary questions in the Annual Census and from the Monthly Inventories and Shipments Survey and actual corrections could be made for previous years.

3 See footnote I.

(f) Prior to 1961 the Census of Manufactures did not have complete coverage of head and administrative offices and had never surveyed separate sales offices, warehouses or laboratories operated by manufacturing firms. Beginning with the 1961 survey, complete coverage of these auxiliary units was effected. In the past the employment and salaries and wages of those head and administrative offices that were surveyed were either coded in total to the industry in which the greatest portion of the company's manufacturing activities was classified or else, in the case of certain large multi-unit firms with establishments in several industries, were pro-rated among the different industries involved. In the original 1961 statistics published in 1961 reports, the same coverage and treatment of head offices was applied to maintain comparability over the 1957-61 period. Beginning with the revised 1961 statistics, all head offices and auxiliary units are covered and are processed according to the methods described below.

1. Single-Establishment Companies

In the great majority of cases central administrative and executive personnel of companies consisting only of one establishment are generally located at the site of the manufacturing plant and are automatically included in the plant reports. Where head offices and auxiliary units are geographically separate from plant locations and employ a sizeable number of workers they are surveyed on special questionnaires.

Separately located head offices, sains offices, administrative offices and other separate auxiliary units (laboratories, warehouses, etc.) do not usually constitute separate establishments for purposes of industry statistics since they do not normally generate operational revenues but give rise only to costs of operation (mainly salaries and wages) which make up part of the selling price of manufactured products and which are thus included in the value of shipments or sales. Where such units belong to single-establishment companies, they will be considered as extensions of the establishment's boundaries and their operations consolidated with the establishment's total activity.

2. Multi-Establishment Companies

In the case of companies with more than one establishment the following rules are applied:

- (i) Where all the establishments of a company are classified to the same (three-digit) industry, the head office and other auxiliary units are coded to that same industry.
- (ii) Where the establishments of a company are not all classified to the same (three-digit) industry but are coded to different industries, or industries in different industry groups or even different divisions

² Some manufacturing firms operate sales branches or selling warehouses as separate sales establishments for which complete accounting records of receipts, expenses, employment and sales are maintained. In such cases the plants, in effect, "Sell" to the sales outlets on much the same basis as they would to independent buyers. The value of plant shipments is based on factory prices and the "boundary" of the manufacturing establishment does not extend beyond the plant. The sales outlets in such cases constitute separate sales establishments and are classified to wholesale or retail trade. Some sales outlets of manufacturing firms, although they physically handle products of the plants, do not maintain separate accounts and are generally treated for statistical purposes as extensions of manufacturing operations. Special arrangements were made for separate reporting in a few cases where the treatment of such outlets as manufacturing extensions would Seriously affect the significance of statistics for particular manufacturing and trade industries.

^{*} See footnote 2 for exceptions.

of the Standard Industrial Classification, the inclusion of data for head office and auxiliary units in any one of the (three-digit) industries concerned would distort the relationship between items of principal statistics. In such cases, the auxiliary units are coded at the group (two-digit) level in tabulations of industry statistics. Where multi-establishment companies cut across group or major division lines of the Classification, the head office and auxiliary units will be coded to the (two-digit) industry group in which the major part of the company's operations are classified. Although this may result in some distortion of (two-digit) industry group statistics it will eliminate distortion within groups as it will leave statistics at the (three-digit) industry level free of these company-wide data,

Period Covered

Respondents are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. However, the data on employees, salaries, wages and man-hours are requested on a calendar year basis in all cases.

When establishments are operated for only a portion of a year, a report is required covering the period of operation.

Working Owners or Partners

Beginning with the revised 1961 statistics working owners and partners of unincorporated businesses are shown as a separate category in the principal statistics and are neither included in the number of employees nor in 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. In all previous reports of the Census of Manufactures these workers were included as part of the number of administrative and office employees and their withdrawals were included as part of salaries. Withdrawals are defined as amounts withdrawn by owners or partners for normal living expenses, excluding withdrawals for payment of income tax.

Number of Establishments

The number of establishments represents the number of operating units (accounting entities as per the new definition of the establishment) for which separate reports are submitted. Head offices located apart from establishments and which are surveyed separately and separate sales and administrative auxiliaries that are treated as extensions of manufacturing activities are not included in the establishment count. However, the operational statistics (employment, salaries etc.) of such auxiliary units which are coded at the "three-digit"

level are included in the principal statistics of industries coded at the same level; those units coded at the "two-digit" level are included with the statistics for groups of industries.

Employees

As noted above, the number of working owners and partners are excluded from the number of employees, beginning with the revised 1961 statistics. This change brings the definition of "employees" in the Census of Manufactures in line with that of "employees" in the Bureau's monthly Employment Survey and with that of "paid workers" in the Bureau's Labour Force Survey. For purposes of historical comparisons, the number of working owners and partners should be added to total employees (beginning with the revised 1961 data) in order to correspond with the figure of "total employees" published in previous reports concerned with the Annual Census of Manufactures.

In addition to production and related workers engaged in manufacturing activities, total employees include administrative, office, sales and distribution workers as well as any production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment by its own employees (when these are treated as a separate work force) or logging (mostly in connection with sawmills or planing mills). Number of employees represents as closely as possible equivalent annual full-time employment. Adjustments are made when reported figures indicate the existence of part-time or seasonal employment.

Administrative and office employees include all executive and supervisory officials such as presidents, vice-presidents, controllers, secretaries, treasurers etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical etc. Sales and distribution workers include office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truck drivers and their helpers, etc. They exclude persons working on a commission basis who are not considered regular employees.

Production and related workers in manufacturing activities include, in addition to those engaged in processing and assembling, those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees in related activities such as maintenance, repair, janitorial and watchman services. Working foremen doing similar work to that of employees they supervise are also included. Production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment, logging

employees or outside piece-workers employed in certain industries are excluded from the number of production and related workers but are part of the total number of employees in those industries.

Production and related workers 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 twelve. This procedure is followed even though the plant did not operate in all months in order to derive equivalent annual full-time employment. The numbers are somewhat affected by turn over, in that employment is overstated when an employee changes employment within the same industry during a pay period. Other categories of workers are reported in the form of annual averages. Figures on employment and man-hours refer to the calendar year whether or not some establishments report other data on a financial year basis.

Man-hours of production and related workers in manufacturing activities 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.). 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.

Salaries and Wages

Salaries and Wages refer to gross earnings of the employees described above, 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 workers' earnings. Payments for overtime are included.

Wages refer to amounts paid to production and related workers engaged in manufacturing operations as defined above. Salaries refer to amounts paid to all other categories of employees including relatively small numbers of production workers engaged in construction and extractive operations or who are employed as outside piece-workers. Figures on salaries and wages refer to the calendar year whether or not some establishments reported other data on a financial year basis.

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.

Materials and Supplies

(a) Used in 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. The statistics represent only commodity items or physical goods (costs 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. Respondents are required to report materials and supplies used not purchased. 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) Purchases for resale as such. Figures represent the 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.

(c) 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. Value of construction and repair work done by outside contractors is 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 establishmentoperated cafeterias and lunch counters, first aid medical supplies, laboratory supplies etc.

Shipments

In general the figures represent revenue from all production, sales, services and related activities of reporting establishments. Non-operating revenues such as rent, interest and dividends and the sale of used fixed assets are excluded.

(a) 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 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. (See notes on "Establishment").

Such shipments are net of returned goods, and value figures at the establishment exclude discounts, returns, allowances, sales taxes and excise duties, returnable containers, and charges for outward transportation by common or contract carriers. Transportation or delivery expenses incurred by the reporting establishments' own carriers are not deducted.

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 form B.13 "Customs Canada, Export Entry" has been completed, are treated as shipments.

In four industries, viz. Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair, where work on principal products extends over a relatively long period, the value of production, rather than the value of shipments, is recorded. For these industries value of production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on units delivered in the year under review. Adjustments to the value of shipments are also made for firms in these industries and in some other industries which operate on the basis of progress payments. The latter are treated as sales and not as inventory, so that for firms which use a progress payments account, an adjustment to the value of shipments is made for the net change in this account during the year.

(b) Shipments of goods not of own manufacture

These figures represent the net selling value at the establishment (less discounts, returns, allowances, sales taxes and excise duties 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 goods on a rental basis value of shipments represents the book value of such goods. All sales of consignment goods from other countries are included.

(c) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs and alterations. additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishments' 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 establishments' own employees, such as revenue from goods produced for rental (the book value of such goods are included as part of factory shipments), servicing revenues, commissions on sales (when not included in value of sales), revenue from company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishments' 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 inventory

Values represent the book value of manufacturing inventory owned in Canada. The value of inventory held for which progress payments have been received is treated as shipments and is not included in inventory owned. 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. Inventory owned abroad has already been reported as shipments and is excluded.

(b) Inventory of goods purchased for re-sale

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by reporting establishments and held at the plants and at any warehouses or selling outlets which are treated as extensions of establishments. Inventory owned in transit in Canada or on consignment in Canada is included.

Because of changes in classification, the receipt of revised data, the inclusion of new establishments or the removal of old establishments which did not operate during the latest year, the opening inventory for the latest year does not necessarily coincide with the closing inventory of the preceding year.

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

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(b) By total activities

Figures consist of value added by manufacturing activities plus value added by non-manufacturing activities and is compiled by deducting the cost of goods purchased for re-sale and the cost of other materials and supplies used from the value of shipments of goods not of own manufacture plus other revenue, adjusted for changes in the value of inventories of goods purchased for re-sale.

"Value added" is sometimes referred to as 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 in 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.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking for only a limited amount of detail. For purposes of publication, missing data were estimated on the basis of appropriate ratios. Beginning with the 1959 census, the general limit for short forms was raised from \$50,000 (the limit used since 1949) to \$100,000 value of shipments and a new medium form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the

short and medium forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

Prior to 1961, the short form was limited to a question on the principal items of factory shipments. In the 1961 and 1962 censuses, in addition to the question on shipments of goods of own manufacture, general questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity and inventories, were estimated by using ratios based on the change in the value of shipments reported in 1961 and 1962. This was done to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportions of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

Beginning with the 1963 census, general questions on total purchases of materials, fuel and electricity and on total inventory were added on the short forms. The two questions, however, were designed so that the data can be easily derived from respondents' regular accounting records. This will permit a complete tabulation of principal statistics without the necessity of estimating missing items and will result in increased accuracy for rural area statistics where small firms account for a relatively important part of industrial output.

The addition of extra questions on the short form in recent years has also permitted an increase in the cut-off limits for short forms in many industries. This has meant that many more firms are now receiving the short form instead of the long or medium form. It has also resulted in the withdrawal of the medium form in a number of industries, thus further simplifying collection and tabulation procedures.