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CONSTRUCTION IN CANADA

1963-65

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Operations Section



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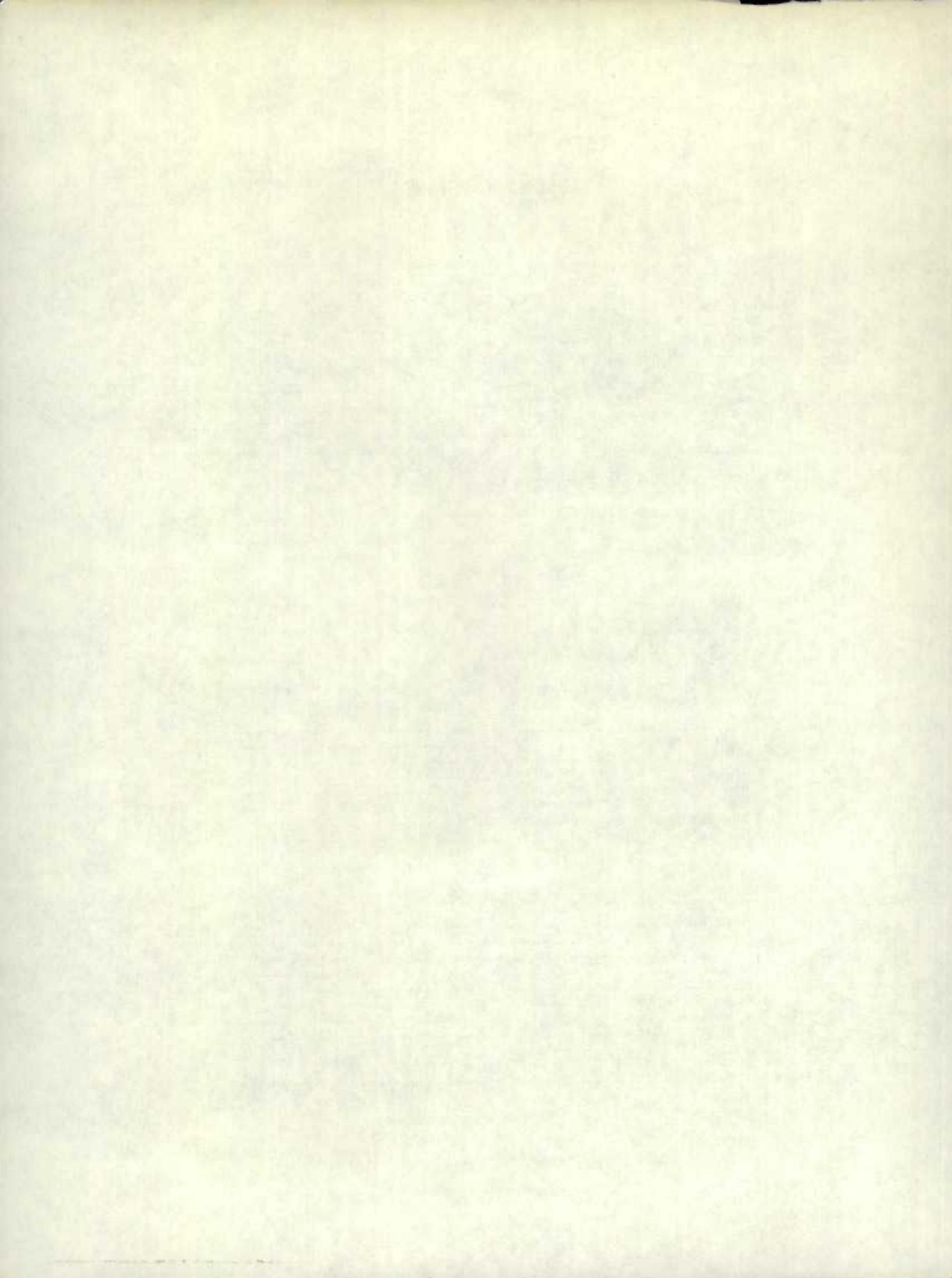
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CHAMBERS' LETTERS OF TRAVEL

AGAING TO THE UNITED STATES

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INTRODUCTION

This report contains data on construction activity undertaken in Canada during 1963 and 1964 and provides estimates of the intended program for 1965. The information given for 1964 is preliminary whereas that shown for 1963 and earlier is final. The probable volume of construction that will be realized in 1965 can be appraised only in the light of past experience and conditions that will exist during the year.

The statistical problems related to making allowance for non-coverage and non-response for individual industries or regions and for the various types of structures present a number of difficulties. Changing plans and problems of respondents in estimating accurately the cost of each type of structure also add to the difficulties. It is particularly important to bear this in mind in any examination of the details shown in this report.

The estimates are based mainly on data collected by D.B.S. at the same time and from the same

sources as for the publication "Private and Public Investment in Canada, Outlook 1965", which was issued earlier this year as a joint project of DBS and the Economics Branch of the Department of Trade and Commerce. The slight differences in totals between the two reports are due to rounding and minor revisions. While the earlier report provided data on both construction and machinery and equipment expenditures, this report deals with construction only, but in considerably more detail. Separate estimates are provided for 70 different types of structures, such as factories, office buildings, retail and wholesale stores, schools, electric power plants, highways and railway tracks and roadbeds.

Also included are statistics on cost of material used and on labour content in terms of numbers of persons and value. The various sources of information and methods used to derive these statistics are described in the statistical notes which follow the tabular material.

GENERAL REVIEW

Construction in Canada is expected to reach the record level of \$9.8 billion in 1965, a 13 per cent increase over the \$8.6 billion estimated for 1964. The intended 1965 spending on new construction, at \$8,072 million, will be 15 per cent higher than the 1964 total of \$7,012 million; the repair construction, amounting to \$1,734 million, will be up by 6 per cent.

Significant strength is indicated for 1965 in commercial and institutional building construction in value terms and also in percentage terms relative to 1964. Residential construction is also expected to increase during the current year with a gain of 10 per cent following a 15 per cent expansion during 1964. Expenditures for engineering construction will be up by about 10 per cent in 1965 with a greatly expanded programme for roads and bridges,

further increases in expenditures on structures in electric power developments, and additions to municipal water works and sewage systems.

The reported plans for construction in 1965 show the largest year-over-year percentage increase since 1956 in terms of current dollars. While the equivalent figures in constant 1957 dollars are not available for 1965, the increase in volume during this year could well exceed the 1964 gain in volume which was the highest on record following 1956. The realization of these aims in outlays on construction could be affected by a number of factors which would cause an enlargement or contraction of the programme; for example, the cost and availability of funds, weather, work stoppages, availability of labour and materials, and other circumstances.

Year	Total new and repair construction	To change over previous year in	
		Value	Volume
1956	6,454	21.6	15.8
1957	7,023	8.8	5.1
1958	7,092	1.0	1.0
1959	7,077	- 0.2	3.5
1960	6,886	- 2.7	- 4.7
1961	6,974	1.3	2.1
1962	7,296	4.6	2.0
1963	7,716	5.8	2.1
1964	8,653	12.1	8.3
1965	9,806	13.3	-

VALUE OF CONSTRUCTION WORK PERFORMED
TABLE 1. Current and Constant Dollars, 1956-65¹

	New		Repair		Total		Total construction as percentage of Gross National Product	
	Current dollars	Constant 1957 dollars	Current dollars	Constant 1957 dollars	Current dollars	Constant 1957 dollars	Current dollars	Constant 1957 dollars
millions of dollars								
1956	5,272	5,444	1,182	1,236	6,454	6,680	21.1	21.2
1957	5,785	5,785	1,238	1,238	7,023	7,023	22.0	22.0
1958	5,831	5,868	1,261	1,230	7,092	7,098	21.6	22.0
1959	5,710	5,556	1,367	1,290	7,077	6,846	20.3	20.5
1960	5,454	5,223	1,432	1,301	6,886	6,524	19.0	19.1
1961	5,518	5,346	1,456	1,313	6,974	6,659	18.7	19.0
1962	5,787	5,475	1,509	1,319	7,296	6,794	18.1	18.3
1963	6,157	5,623	1,559	1,316	7,716	6,939	17.9	17.9
1964	7,012	6,189	1,641	1,328	8,653	7,517	-	-
1965	8,072		1,734		9,806	-	-	-

¹ Actual 1956-63, preliminary 1964, intentions 1965.

TABLE 2. By Contractors and Others, 1961-65^{1,2}

	Contract construction			Other construction ²			Total construction		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
millions of dollars									
1961	4,621	726	5,347	897	730	1,627	5,518	1,456	6,974
1962	4,900	810	5,710	887	699	1,586	5,787	1,509	7,296
1963	5,213	821	6,034	944	738	1,682	6,157	1,559	7,716
1964	6,061	902	6,963	951	739	1,690	7,012	1,641	8,653
1965	7,119	1,206	8,125	953	728	1,681	8,072	1,734	9,806

¹ Actual 1961-63, preliminary 1964, intentions 1965.

² Represents work done by the labour forces of utilities, manufacturing, mining and logging firms, government departments, home owner-builders and other persons or firms not primarily engaged in the construction industry.

TABLE 3. By Principal Types of Construction, 1961-65^{1,2}

	1961		1962		1963		1964		1965	
	Value	Per cent of total								
	\$ Mill	%								
Total construction	6,974	100.0	7,296	100.0	7,716	100.0	8,653	100.0	9,806	100.0
Total building construction²	4,143	59.4	4,543	62.3	4,692	60.8	5,127	59.3	5,930	60.5
Residential	1,951	28.0	2,100	28.8	2,257	29.2	2,604	30.1	2,856	29.2
Industrial	411	5.9	492	6.7	535	6.9	663	7.7	699	7.1
Commercial	755	10.8	719	9.9	737	9.6	793	9.2	1,052	10.7
Institutional	647	9.3	827	11.3	857	11.1	757	8.7	983	10.0
Other building	379	5.4	405	5.6	306	4.0	310	3.6	340	3.5
Total engineering²	2,831	40.6	2,753	37.7	3,024	39.2	3,526	40.7	3,876	39.5
Marine	121	1.7	85	1.2	61	0.8	90	1.0	112	1.1
Road highway and aerodrome construction	750	10.8	803	11.0	846	10.9	1,044	12.1	1,153	11.8
Waterworks and sewage systems	223	3.2	228	3.1	266	3.4	295	3.4	326	3.3
Dams and irrigation	78	1.1	93	1.3	85	1.1	131	1.5	145	1.5
Electric power construction	411	5.9	454	6.2	493	6.4	573	6.6	684	7.0
Railway, telephone and telegraph construction	384	5.5	373	5.1	406	5.3	431	5.0	441	4.5
Gas and oil facilities	520	7.5	416	5.7	500	6.5	553	6.4	483	4.9
Other engineering construction	344	4.9	301	4.1	367	4.8	409	4.7	531	5.4

¹ Actual 1961-63, preliminary 1964, intentions 1965.

² Estimates for types of structures in agriculture have been compiled for 1963, 1964 and 1965 on the basis of more recent related information and are, therefore, not comparable with data for types of structures in the years prior to 1963. This affects data in Tables 3, 4, 5, 6, 9, 10, and Tables 18 to 27.

TABLE 4. By Principal Type of Construction for Industry and Sector^{1,2}

	1963			1964			1965		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
thousands of dollars									
Totals	4,692,308	3,023,703	7,716,011	5,126,970	3,525,714	8,632,684	5,930,296	3,875,408	9,805,704
Agriculture and fishing ³	170,962	92,267	263,229	179,172	96,690	275,862	177,717	95,919	273,636
Forestry	6,258	36,659	42,917	7,628	43,897	51,525	8,187	45,138	53,325
Mining, quarrying and oil wells	99,985	306,314	406,299	118,996	380,410	499,406	76,657	391,494	468,151
Construction	13,945	814	14,759	15,634	911	16,545	17,584	1,029	18,613
Manufacturing	395,645	99,399	495,044	499,074	85,231	584,305	570,184	113,905	684,089
Utilities	130,856	1,260,676	1,391,532	124,822	1,522,667	1,647,489	138,136	1,635,921	1,774,057
Trade-Wholesale and retail	167,432	8,948	176,380	164,103	7,092	171,195	186,826	7,632	194,458
Finance, insurance and real estate	243,995	4,137	248,132	297,623	2,401	300,024	397,821	4,877	402,698
Commercial services	114,584	1,919	116,503	109,308	10,248	119,556	211,962	32,132	244,094
Housing	2,257,400	-	2,257,400	2,604,500	-	2,604,500	2,856,000	-	2,856,000
Institutional services	813,683	3,415	817,098	704,698	6,140	710,838	911,127	8,032	919,159
Government departments	277,563	1,209,155	1,486,718	301,412	1,370,027	1,671,439	378,095	1,539,329	1,917,424

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

TABLE 5. Dollar and Percentage Change by Principal Type of Construction for Industry or Sector^{1,2}

	Change 1963 to 1964						Change 1964 to 1965					
	Building		Engineering		Total		Building		Engineering		Total	
	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%
Totals	435	9.3	502	16.6	937	12.1	803	15.7	350	9.9	1,153	13.3
Agriculture and fishing ³	8	4.6	4	4.8	13	4.8	- 1	- 0.8	- 1	- 0.8	- 2	- 0.8
Forestry	1	21.9	7	19.7	9	20.1	1	7.3	1	2.8	2	3.5
Mining, quarrying and oil wells	19	19.0	74	24.2	93	22.7	- 42	- 35.6	11	2.9	- 31	- 6.3
Construction	2	12.1	-	11.9	2	12.1	2	12.5	-	13.0	2	12.5
Manufacturing	103	26.1	- 14	- 14.3	89	18.0	71	14.2	29	33.6	100	17.1
Utilities	- 6	- 4.6	262	20.8	256	18.4	13	10.7	113	7.4	127	7.7
Trade-Wholesale and retail	- 3	- 2.0	- 2	- 20.7	- 5	- 2.9	23	13.8	1	7.6	23	13.6
Finance, insurance and real estate	54	22.0	- 2	- 42.0	52	20.9	100	33.7	2	103.1	103	34.2
Commercial services	- 5	- 4.6	8	434.0	3	2.6	103	93.9	22	213.5	125	104.2
Housing	347	15.4	-	-	347	15.4	252	9.7	-	-	252	9.7
Institutional services	- 109	- 13.4	3	79.8	- 106	- 13.0	206	29.3	2	30.8	208	29.3
Government departments	24	8.6	161	13.3	185	12.4	77	25.4	169	12.4	246	14.7

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

TABLE 6. By Type of Structure, Total 1961-65^{1,2}

Type of structure	1961	1962	1963	1964	1965
thousands of dollars					
Total value of construction.....	6,974,379	7,296,039	7,716,011	8,652,684	9,805,704
Total building construction.....	4,143,170	4,542,935	4,692,308	5,126,970	5,930,296
Residential.....	1,851,000	2,100,000	2,257,400	2,604,500	2,856,000
Industrial.....	410,868	491,595	535,610	662,541	699,172
2. Factories, plants, workshops, food canneries.....	318,894	372,828	409,822	518,076	590,789
3. Mine and mine mill buildings.....	57,576	83,183	86,636	105,330	68,522
4. Railway stations, offices, roadway buildings.....	22,904	23,834	26,690	24,714	25,675
5. Railway shops, engine houses, water and fuel stations.....	11,494	11,750	12,262	14,421	14,186
Commercial.....	754,639	719,500	736,922	792,778	1,051,688
6. Warehouses, storehouses, refrigerated storage, etc.....	65,241	62,539	70,653	80,710	82,595
7. Grain elevators.....	28,101	29,295	21,200	17,295	15,217
8. Hotels, clubs, restaurants, cafeterias, tourist cabins.....	46,568	47,480	67,031	69,687	113,530
9. Office buildings.....	351,877	323,933	296,283	348,636	461,668
10. Stores, retail and wholesale.....	164,757	164,164	171,686	175,027	212,630
11. Garages and service stations.....	44,069	36,098	45,953	45,879	53,968
12. Theatres, arenas, amusement and recreational buildings.....	51,416	53,266	61,107	52,618	109,878
13. Laundries and dry cleaning establishments.....	2,630	2,723	3,009	2,926	2,202
Institutional.....	647,056	827,313	856,631	756,984	983,112
14. Schools and other educational buildings.....	360,968	537,180	577,584	470,890	618,683
15. Churches and other religious buildings.....	66,705	61,210	53,973	54,501	58,213
16. Hospitals, sanatoria, clinics, first-aid stations, etc.....	179,382	189,903	180,746	183,126	221,820
17. Other institutional buildings.....	38,001	39,020	44,328	48,467	84,396
Other building construction.....	379,587	404,527	305,745	310,167	340,324
18. Farm buildings (excluding dwellings).....	211,739	232,922	175,611	183,060	181,913
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges.....	69,464	64,505	48,341	37,068	38,012
20. Aeroplane hangars.....	8,633	6,949	5,624	5,749	6,490
21. Passenger terminals, bus, boat or air.....	22,829	30,245	22,099	21,669	34,248
22. Armouries, barracks, drill halls, etc.....	24,298	27,196	17,529	17,811	19,424
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps.....	16,232	19,288	13,506	14,160	21,884
24. Other building construction.....	26,392	23,422	23,035	30,650	38,353
Total engineering construction.....	2,831,209	2,753,104	3,023,703	3,525,714	3,875,408
Marine construction.....	120,843	84,996	60,569	89,667	112,474
25. Docks, wharves, piers, breakwaters.....	77,080	57,831	37,517	54,118	56,397
26. Retaining walls, embankments, ripraping.....	2,292	2,702	6,154	18,210	21,550
27. Canals and waterways.....	10,470	9,511	3,064	4,460	18,930
28. Dredging and pile driving.....	23,928	11,192	7,706	7,618	8,309
29. Dyke construction.....	1,081	716	2,069	48	90
30. Logging booms.....	965	960	718	751	1,748
31. Other marine construction.....	5,027	2,084	3,341	4,462	5,450

See footnotes at end of table.

TABLE 6. By Type of Structure, Total, 1961-65^{1,2} — Concluded

Type of structure	1961	1962	1963	1964	1965
thousands of dollars					
Road, highway and aerodrome construction	750,170	802,711	846,080	1,043,562	1,153,353
32. Hard surfaced or paved streets, highways, parking lots, etc.	461,738	512,782	493,080	761,231	871,781
33. Gravel or stone streets, highways, roads, parking lots, etc.	170,396	165,289	236,438	167,723	169,219
34. Dirt, clay or other streets, roads, parking lots, etc.	39,227	43,785	35,210	34,209	36,674
35. Grading, scraping, oiling, filling	27,535	30,336	35,553	36,053	26,645
36. Sidewalks, paths	22,275	26,858	26,181	25,127	26,808
37. Aerodromes, landing fields, runways, tarmac	28,999	23,661	19,618	19,219	22,226
Waterworks and sewage systems	223,152	227,615	266,330	294,575	325,738
38. Tile drains, drainage ditches, storm sewers	7,082	5,434	25,224	27,515	27,885
39. Water mains, hydrants and services	77,034	87,127	91,111	97,767	126,605
40. Sewage systems and connections	122,685	122,430	132,340	145,658	136,882
41. Pumping stations, water	14,116	8,689	10,450	17,659	23,806
42. Water storage tanks	2,235	3,935	7,205	5,976	10,560
Dams and irrigation	78,351	93,317	84,993	131,268	145,008
43. Dams and reservoirs	60,018	72,547	60,680	100,551	114,404
44. Irrigation and land reclamation projects	18,333	20,770	24,313	30,717	30,604
Electric power construction	411,381	454,338	492,511	572,752	683,536
45. Electric power generating plants, including water conveying and controlling structures	197,121	217,572	220,776	201,090	274,909
46. Electric transformer stations	33,237	32,119	42,206	93,448	94,967
47. Power transmission and distribution lines, trolley wires	159,854	185,563	207,765	257,723	292,375
48. Street lighting	21,169	19,084	21,764	20,491	21,285
Railway, telephone and telegraph	384,023	372,889	406,165	431,243	441,420
49. Railway tracks and roadbed	231,571	211,252	231,139	247,495	237,666
50. Signals and interlockers	16,104	13,943	18,080	18,139	17,743
51. Telegraph and telephone lines, underground and marine cables	136,348	147,694	156,946	165,609	186,011
Gas and oil facilities	519,526	416,096	499,962	553,476	483,177
52. Gas mains and services	56,542	67,880	69,429	53,029	48,661
53. Pumping stations, oil	3,228	3,054	4,153	4,767	7,676
54. Pumping stations, gas	13,773	25,423	30,831	33,250	14,579
55. Oil storage tanks	20,774	16,395	16,237	17,049	12,272
56. Gas storage tanks	909	967	1,413	1,762	1,346
57. Oil pipe lines	42,957	16,930	25,362	22,539	23,907
58. Gas pipe lines	95,260	23,778	53,705	100,568	42,609
59. Oil wells	121,147	138,067	162,407	189,317	181,769
60. Gas wells	46,422	25,257	26,781	32,013	31,806
61. Oil refinery — Processing units ³	48,229	77,406	65,805	50,326	82,546
62. Natural gas cleaning plants	70,285	20,939	43,839	48,856	36,006
Other engineering construction	343,763	301,142	367,093	409,171	530,702
63. Bridges, trestles, culverts, overpasses, viaducts	207,566	166,886	202,342	174,046	209,833
64. Tunnels and subways	19,261	17,580	31,853	70,847	76,414
65. Incinerators	403	594	393	59	61
66. Park systems, landscaping, sodding, etc.	10,377	11,450	15,664	7,738	11,226
67. Swimming pools, tennis courts, outdoor recreation facilities	6,262	7,353	4,877	6,019	5,562
68. Mine shafts and other below surface workings	31,821	34,497	36,830	41,635	57,046
69. Fences, snowsheds, signs, guard rails	24,747	24,791	38,561	36,026	36,296
70. Other engineering construction	43,326	37,991	36,573	72,801	134,264

¹ Actual 1961-63, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61, "Oil refinery-processing units" includes related structures employed in production of petrochemicals.

LABOUR CONTENT AND COST OF MATERIALS USED, 1961-65¹

TABLE 7. By Provinces

Provinces	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Canada: No of temp. by contractors - Eng. Pay rolls				
1961	530,854	2,349,229	3,273,513	6,974,379
1962	528,921	2,475,670	3,507,738	7,296,039
1963	523,909	2,560,877	3,736,494	7,716,011
1964	567,093	2,839,999	4,172,417	8,652,684
1965	637,051	3,195,726	4,750,585	9,805,704
Newfoundland:				
1961	13,462	55,022	77,575	169,491
1962	14,462	66,792	88,646	199,786
1963	12,318	56,189	86,780	185,215
1964	12,447	57,228	88,995	195,350
1965	10,932	50,859	77,281	168,851
Prince Edward Island:				
1961	3,160	9,844	15,649	32,254
1962	3,047	11,414	19,166	38,741
1963	3,418	11,812	17,872	38,326
1964	3,051	10,616	15,733	34,433
1965	3,155	11,021	16,377	35,636
Nova Scotia:				
1961	20,841	73,537	94,800	204,845
1962	17,283	67,817	98,412	205,146
1963	18,027	70,387	104,013	213,108
1964	17,967	72,024	107,036	219,282
1965	22,700	91,442	141,419	285,971
New Brunswick:				
1961	15,003	51,688	80,039	157,243
1962	13,972	52,142	77,604	155,321
1963	14,153	51,909	80,906	158,523
1964	16,837	63,276	99,528	197,670
1965	20,280	76,439	121,336	243,498
Quebec:				
1961	135,116	566,190	860,458	1,732,739
1962	138,031	632,002	948,708	1,890,669
1963	136,121	638,013	1,006,379	1,963,920
1964	154,346	744,577	1,182,415	2,337,245
1965	180,367	874,513	1,398,703	2,778,374
Ontario:				
1961	172,666	801,021	1,077,333	2,294,781
1962	176,792	853,319	1,176,478	2,448,295
1963	174,273	897,700	1,262,568	2,620,182
1964	182,754	959,498	1,362,375	2,816,060
1965	208,145	1,098,049	1,577,175	3,249,129
Manitoba:				
1961	29,020	128,903	177,085	369,662
1962	27,098	124,109	174,007	361,112
1963	28,511	136,672	187,082	402,922
1964	30,445	148,681	206,950	441,687
1965	31,378	152,425	214,654	452,875

¹ Actual 1961-63, preliminary 1964, intentions 1965.

TABLE 7. By Provinces - Concluded

Provinces	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Saskatchewan:				
1961	28,528	127,292	175,534	383,021
1962	30,080	140,254	200,247	416,984
1963	30,997	144,766	213,237	444,621
1964	31,727	151,511	223,811	467,005
1965	33,834	161,421	239,619	499,048
Alberta:				
1961	60,453	270,128	386,068	876,719
1962	55,669	263,049	373,472	820,209
1963	53,730	270,534	391,461	861,795
1964	55,403	286,492	413,425	918,707
1965	58,975	305,377	445,099	981,980
British Columbia:				
1961	52,605	265,604	328,972	753,624
1962	52,487	264,772	350,998	759,776
1963	52,361	282,895	386,196	827,399
1964	62,116	346,096	472,049	1,025,245
1965	67,274	374,180	518,722	1,110,332

TABLE 8. By Contractors and Others¹

Type	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Total:				
1961	530,854	2,349,229	3,273,513	6,974,379
1962	528,921	2,473,670	3,507,738	7,296,039
1963	523,909	2,560,877	3,736,494	7,716,011
1964	567,093	2,839,999	4,172,417	8,632,684
1965	637,051	3,195,726	4,750,585	9,805,704
Contractors:				
1961	358,112	1,655,512	2,552,390	5,347,557
1962	381,526	1,803,234	2,809,407	5,709,666
1963	377,040	1,876,434	2,967,999	6,033,670
1964	422,097	2,152,770	3,399,663	6,963,443
1965	492,763	2,512,199	3,979,475	8,124,909
Utilities:				
1961	65,149	319,510	365,810	748,290
1962	64,981	327,132	377,500	763,298
1963	63,363	325,283	433,769	805,581
1964	61,947	324,549	432,381	803,308
1965	61,842	324,100	431,824	802,251
Governments:				
1961	71,833	220,089	173,029	497,272
1962	53,434	216,760	161,775	492,320
1963	51,691	214,290	153,309	506,306
1964	50,643	212,898	151,852	501,472
1965	49,726	208,793	148,501	490,164
Others:				
1961	35,760	154,118	182,284	381,260
1962	28,980	128,544	159,056	330,755
1963	31,815	144,870	181,417	370,454
1964	32,406	149,782	188,521	384,461
1965	32,719	150,634	190,785	388,380

¹ Actual 1961-63, preliminary 1964, intentions 1965.

VALUE OF CONSTRUCTION WORK PERFORMED - CANADA 1963-65¹

TABLE 9. By Type of Structure, New and Repair²

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	6,156,728	1,559,283	7,716,011	7,012,096	1,640,588	8,652,684	8,072,027	1,733,677	9,805,704
Total building construction	3,734,503	957,805	4,692,308	4,131,468	995,502	5,126,970	4,884,197	1,046,099	5,930,296
Residential	1,713,400	544,000	2,257,400	2,027,500	577,000	2,604,500	2,244,000	612,000	2,856,000
Industrial	399,104	136,506	535,610	525,698	136,843	662,541	554,772	144,400	699,172
2. Factories, plants, workshops, food canneries	302,667	107,155	409,822	412,046	106,030	518,076	482,255	108,534	590,789
3. Mine and mine mill buildings	76,127	10,509	86,636	94,970	10,360	105,330	57,013	11,509	68,522
4. Railway stations, offices, roadway buildings	14,435	12,455	26,890	11,095	13,619	24,714	9,371	16,304	25,675
5. Railway shops, engine houses, water and fuel stations	5,875	6,387	12,262	7,587	6,834	14,421	6,133	6,053	14,186
Commercial	616,927	119,995	736,922	660,752	132,026	792,778	917,159	134,529	1,051,688
6. Warehouses, storehouses, refrigerated storage, etc.	56,981	13,672	70,653	64,921	15,789	80,710	66,349	16,246	82,595
7. Grain elevators	15,303	5,897	21,200	10,646	6,649	17,295	9,191	6,026	15,217
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	54,106	12,925	67,031	56,879	12,808	69,687	99,301	14,229	113,530
9. Office buildings	254,399	41,884	296,283	299,692	48,944	348,636	410,652	51,016	461,668
10. Stores, retail and wholesale	145,314	26,372	171,686	147,549	27,478	175,027	184,109	28,521	212,630
11. Garages and service stations	34,632	11,321	45,953	34,412	11,467	45,879	42,699	11,269	53,968
12. Theatres, arenas, amusement and recreational buildings	54,280	6,827	61,107	44,804	7,814	52,618	103,500	6,378	109,878
13. Laundries and drycleaning establishments	1,912	1,097	3,009	1,849	1,077	2,926	1,358	844	2,202
Institutional	779,621	77,010	856,631	689,578	67,406	756,984	911,054	72,058	983,112
14. Schools and other educational buildings	543,988	33,596	577,584	437,322	33,568	470,890	583,549	35,134	618,683
15. Churches and other religious buildings	46,912	7,061	53,973	47,516	6,985	54,501	49,057	9,156	58,213
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	157,439	23,307	180,746	161,300	21,826	183,126	199,419	22,401	221,820
17. Other institutional buildings	31,282	13,046	44,328	43,440	5,027	48,467	79,029	5,367	84,396
Other building construction	225,451	80,294	305,745	227,940	82,227	310,167	257,212	83,112	340,324
18. Farm buildings (excluding dwellings)	127,017	48,594	175,611	132,272	50,788	183,060	131,476	50,437	181,913
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	42,532	5,809	48,341	32,900	4,168	37,068	33,475	4,537	38,012
20. Aeroplane hangars	2,620	3,004	5,624	2,696	3,053	5,749	3,246	3,244	6,490
21. Passenger terminals, bus, boat or air	21,685	414	22,099	20,762	907	21,669	33,692	556	34,248
22. Armouries, barracks, drill halls, etc.	3,380	14,149	17,529	3,802	14,009	17,811	4,495	14,929	19,424
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	9,551	3,955	13,506	10,006	4,154	14,160	17,900	3,984	21,884
24. Other building construction	18,666	4,369	23,035	25,502	5,148	30,650	32,928	5,425	38,353
Total engineering construction	2,422,225	601,478	3,023,703	2,880,628	645,086	3,525,714	3,187,830	687,578	3,875,408
Marine construction	44,613	15,956	60,569	73,047	16,620	89,667	93,675	18,799	112,474
25. Docks, wharves, piers, breakwaters	29,647	7,870	37,517	46,465	7,653	54,118	48,316	8,081	56,397
26. Retaining walls, embankments, riprapping	5,050	1,104	6,154	17,907	303	18,210	21,196	354	21,550
27. Canals and waterways	2,345	719	3,064	3,085	1,375	4,460	16,587	2,343	18,930
28. Dredging and pile driving	2,941	4,765	7,706	2,703	4,915	7,618	3,148	5,161	8,309
29. Dyke construction	1,909	160	2,069	13	35	48	15	75	90
30. Logging booms	306	412	718	331	420	751	1,028	720	1,748
31. Other marine construction	2,415	926	3,341	2,543	1,919	4,462	3,385	2,065	5,450

See footnotes at end of table.

TABLE 8. By Type of Structure, New and Repair¹—Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	647,048	199,032	846,080	820,928	222,634	1,043,562	926,181	227,172	1,153,353
32. Hard surfaced or paved streets, highways, parking lots, etc.	383,686	109,394	493,080	619,923	141,308	761,231	723,584	148,197	871,781
33. Gravel or stone streets, highways, roads, parking lots, etc.	177,347	59,091	236,438	105,931	61,792	167,723	111,510	57,709	169,219
34. Dirt, clay or other streets, roads, parking lots, etc.	25,634	9,576	35,210	24,170	10,039	34,209	26,118	10,556	36,674
35. Grading, scraping, oiling, filling	22,406	13,147	35,553	33,611	2,442	36,053	23,263	3,382	26,645
36. Sidewalks, paths	20,588	5,593	26,181	20,190	4,937	25,127	21,743	5,065	26,808
37. Aerodromes, landing fields, runways, tarmac	17,387	2,231	19,618	17,103	2,116	19,219	19,963	2,263	22,226
Waterworks and sewage systems	218,665	47,665	266,330	248,134	46,441	294,575	278,397	47,341	325,738
38. Tile drains, drainage ditches, storm sewers	18,204	7,020	25,224	21,067	6,448	27,515	21,759	6,126	27,885
39. Water mains, hydrants and services	65,712	25,399	91,111	73,814	23,953	97,767	102,097	24,508	126,605
40. Sewage systems and connections	119,963	12,377	132,340	132,669	12,989	145,658	125,026	11,856	136,882
41. Pumping stations, water	8,547	1,903	10,450	16,092	1,567	17,659	22,089	1,717	23,806
42. Water storage tanks	6,239	966	7,205	4,492	1,484	5,976	7,426	3,134	10,560
Dams and irrigation	75,996	8,997	84,993	121,951	9,317	131,268	135,584	9,444	145,008
43. Dams and reservoirs	58,340	2,340	60,680	98,281	2,270	100,551	112,070	2,334	114,404
44. Irrigation and land reclamation projects	17,656	6,657	24,313	23,670	7,047	30,717	23,494	7,110	30,604
Electric power construction	431,071	61,440	492,511	509,989	62,763	572,752	616,796	66,740	683,536
45. Electric power generating plants, including water conveying and controlling structures	206,750	14,026	220,776	187,944	13,146	201,090	259,900	15,009	274,909
46. Electric transformer stations	35,568	6,638	42,206	87,923	5,525	93,448	89,008	5,959	94,967
47. Power transmission and distribution lines, trolley wires	174,576	33,189	207,765	220,371	37,352	257,723	253,032	39,343	292,375
48. Street lighting	14,177	7,587	21,764	13,751	6,740	20,491	14,856	6,429	21,285
Railway, telephone and telegraph	253,722	152,443	406,165	271,877	159,366	431,243	255,766	185,654	441,420
49. Railway tracks and roadbed	127,473	103,666	231,139	139,903	107,592	247,495	108,664	129,002	237,666
50. Signals and interlockers	10,194	7,886	18,080	9,740	8,399	18,139	7,852	9,891	17,743
51. Telegraph and telephone lines, underground and marine cables	116,055	40,891	156,946	122,234	43,375	165,609	139,250	46,761	186,011
Gas and oil facilities	442,609	57,353	499,962	490,284	63,192	553,476	421,250	61,927	483,177
52. Gas mains and services	63,293	6,136	69,429	48,797	4,232	53,029	44,255	4,406	48,661
53. Pumping stations, oil	2,912	1,241	4,153	3,249	1,518	4,767	6,065	1,611	7,676
54. Pumping stations, gas	30,032	799	30,831	32,737	513	33,250	14,146	433	14,579
55. Oil storage tanks	13,559	2,678	16,237	14,811	2,238	17,049	9,881	2,391	12,272
56. Gas storage tanks	1,377	36	1,413	1,693	69	1,762	1,308	38	1,346
57. Oil pipe lines	22,997	2,365	25,362	20,658	1,881	22,539	21,885	2,022	23,907
58. Gas pipe lines	52,961	744	53,705	99,629	939	100,568	41,635	974	42,609
59. Oil wells	152,591	9,816	162,407	174,004	15,313	189,317	166,910	14,859	181,769
60. Gas wells	25,842	939	26,781	31,046	967	32,013	30,897	909	31,806
61. Oil refinery—Processing units ²	36,179	29,626	65,805	19,113	31,213	50,326	52,273	30,273	82,546
62. Natural gas cleaning plants	40,866	2,973	43,839	44,547	4,309	48,856	31,995	4,011	36,006
Other engineering construction	308,501	58,592	367,093	344,418	64,753	409,171	460,201	70,501	530,702
63. Bridges, trestles, culverts, overpasses, viaducts	178,508	23,534	202,342	144,048	29,998	174,046	175,503	34,330	209,833
64. Tunnels and subways	31,744	109	31,653	70,501	346	70,847	76,050	364	76,414
65. Incinerators	293	100	393	39	20	59	44	17	61
66. Park systems, landscaping, sodding, etc.	8,461	7,203	15,864	4,357	3,381	7,738	7,438	3,788	11,226
67. Swimming pools, tennis courts, outdoor recreation facilities	2,725	2,152	4,877	5,235	784	6,019	4,638	924	5,562
68. Mine shafts and other below surface workings	33,163	3,667	36,830	38,520	3,115	41,635	53,878	3,168	57,046
69. Fences, snowsheds, signs, guard rails	25,025	13,536	38,561	24,921	11,105	36,026	24,588	11,708	36,296
70. Other engineering construction	28,582	7,991	36,573	58,797	16,004	72,801	118,062	16,202	134,264

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery-Processing units" includes related structures employed in production of petrochemicals.

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE — INDUSTRY OR SECTOR, 1963-65¹TABLE 10. Primary Industries²

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	598,510	127,694	727,204	703,019	140,319	843,338	672,988	140,737	813,725
Total building construction	223,792	67,358	291,150	251,283	70,147	321,430	209,012	71,133	280,145
Residential	—	—	—	—	—	—	—	—	—
Industrial	83,001	12,955	95,956	101,669	12,838	114,507	64,179	14,206	78,385
2. Factories, plants, workshops, food canneries	7,519	2,494	10,013	6,058	2,539	8,597	7,404	2,749	10,153
3. Mine and mine mill buildings	74,971	10,460	85,431	94,686	10,293	104,979	56,565	11,440	68,005
4. Railway stations, offices, roadway buildings	26	1	27	1	6	7	—	6	6
5. Railway shops, engine houses, water and fuel stations	485	—	485	924	—	924	210	11	221
Commercial	10,626	2,664	13,290	11,587	2,943	14,530	10,025	3,036	13,061
6. Warehouses, storehouses, refrigerated storage, etc.	4,336	1,235	5,571	4,647	1,251	5,898	4,153	1,353	5,506
7. Grain elevators	—	—	—	—	—	—	—	—	—
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	24	40	64	120	77	197	4	79	83
9. Office buildings	5,414	1,165	6,579	3,482	1,413	4,895	3,435	1,366	4,801
10. Stores, retail and wholesale	53	10	63	44	5	49	163	5	168
11. Garages and service stations	503	162	665	1,257	164	1,421	775	181	956
12. Theatres, arenas, amusement and recreational buildings	296	50	346	2,037	32	2,069	1,495	51	1,546
13. Laundries and dry cleaning establishments	—	2	2	—	1	1	—	1	1
Institutional	1,910	84	1,994	2,773	43	2,816	765	60	825
14. Schools and other educational buildings	1,731	13	1,744	2,653	6	2,659	657	27	684
15. Churches and other religious buildings	8	—	8	—	—	—	92	1	93
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	120	71	191	120	37	157	16	32	48
17. Other institutional buildings	51	—	51	—	—	—	—	—	—
Other building construction	128,255	51,655	179,910	135,254	54,323	189,577	134,043	53,831	187,874
18. Farm buildings (excluding dwellings)	122,364	48,115	170,479	128,151	50,530	178,681	127,024	50,189	177,213
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	14	23	37	10	26	36	161	23	184
20. Aeroplane hangars	13	—	13	—	—	—	—	—	—
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	5,792	3,402	9,194	6,994	3,593	10,587	6,793	3,472	10,265
24. Other building construction	72	115	187	99	174	273	65	147	212
Total engineering construction	375,718	60,336	436,054	451,736	70,172	521,908	463,976	69,604	533,580
Marine construction	1,001	1,193	2,194	12,642	1,207	13,849	4,307	1,488	5,795
25. Docks, wharves, piers, breakwaters	461	680	1,141	12,271	553	12,824	3,561	555	4,116
26. Retaining walls, embankments, ripraping	38	19	57	10	4	14	5	—	5
27. Canals and waterways	141	63	204	54	180	234	140	141	281
28. Dredging and pile driving	12	11	23	21	179	200	12	200	212
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	284	326	610	286	290	576	581	592	1,173
31. Other marine construction	65	94	159	—	1	1	8	—	8

See footnotes at end of table.

TABLE 10. Primary Industries¹ — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	31,003	13,457	44,460	42,275	15,296	57,571	38,427	15,318	54,345
32. Hard surfaced or paved streets, highways, parking lots, etc.	471	185	656	3,740	849	4,589	1,858	1,029	2,887
33. Gravel or stone streets, highways, roads, parking lots, etc.	10,575	5,008	15,583	15,795	5,520	21,315	15,477	5,532	21,009
34. Dirt, clay or other streets, roads, parking lots, etc.	17,868	8,139	26,005	20,308	8,753	29,061	20,698	9,182	29,880
35. Grading, scraping, oiling, filling	1,711	50	1,761	2,130	159	2,289	208	163	371
36. Sidewalks, paths	379	1	380	252	—	252	131	—	131
37. Aerodromes, landing fields, runways, tarmac	1	74	75	50	15	65	55	12	67
Waterworks and sewage systems	32,688	11,863	44,551	40,175	12,692	52,867	31,434	12,230	43,684
38. Tile drains, drainage ditches, storm sewers	13,338	5,185	18,523	14,028	5,569	19,597	13,792	5,408	19,200
39. Water mains, hydrants and services	16,337	5,699	22,036	17,358	6,003	23,361	14,210	5,879	20,089
40. Sewage systems and connections	863	101	964	2,289	177	2,486	475	60	535
41. Pumping stations, water	179	129	308	3,711	163	3,874	812	107	919
42. Water storage tanks	1,971	749	2,720	2,789	780	3,569	2,165	776	2,941
Dams and irrigation	16,884	6,098	22,982	17,433	6,395	23,828	17,281	6,325	23,586
43. Dams and reservoirs	1,823	177	2,000	1,661	177	1,838	1,627	149	1,776
44. Irrigation and land reclamation projects	15,061	5,921	20,982	15,772	6,218	21,990	15,634	6,176	21,810
Electric power construction	2,964	691	3,655	10,504	759	11,263	5,572	729	6,301
45. Electric power generating plants, including water conveying and controlling structures	144	183	327	3,327	160	3,487	1,801	153	1,954
46. Electric transformer stations	179	80	259	3,977	63	4,040	2,052	74	2,126
47. Power transmission and distribution lines, trolley wires	2,618	398	3,016	3,151	517	3,668	1,647	478	2,125
48. Street lighting	23	30	53	49	19	68	72	24	96
Railway, telephone and telegraph	2,951	1,244	4,195	1,295	1,443	2,738	292	1,432	1,724
49. Railway tracks and roadbed	2,751	1,101	3,852	990	1,298	2,288	142	1,287	1,429
50. Signals and interlockers	7	—	7	109	21	130	1	30	31
51. Telegraph and telephone lines, underground and marine cables	193	143	336	196	124	320	149	115	264
Gas and oil facilities	227,647	14,187	241,834	260,297	20,820	281,117	239,267	20,000	259,267
52. Gas mains and services	823	40	863	1	17	18	19	18	37
53. Pumping stations, oil	35	4	39	26	3	29	3,566	3	3,569
54. Pumping stations, gas	—	—	—	2	—	2	—	—	—
55. Oil storage tanks	3,270	350	3,620	7,649	3	7,652	3,945	10	3,955
56. Gas storage tanks	—	—	—	95	—	95	36	—	36
57. Oil pipe lines	842	35	877	144	11	155	150	6	156
58. Gas pipe lines	3,888	187	4,073	3,237	226	3,463	2,602	214	2,816
59. Oil wells	152,585	9,818	162,401	174,004	15,313	189,317	166,910	14,859	181,769
60. Gas wells	25,588	800	26,388	30,683	951	31,614	30,284	891	31,175
-61. Oil refinery — Processing units	14	3	17	62	4	66	85	2	87
62. Natural gas cleaning plants	40,604	2,952	43,558	44,414	4,292	48,706	31,670	3,997	35,667
Other engineering construction	60,580	11,603	72,183	67,115	11,580	78,675	127,396	11,482	138,878
63. Bridges, trestles, culverts, overpasses, viaducts	340	87	427	2,171	183	2,354	418	187	605
64. Tunnels and subways	968	4	970	2,449	114	2,563	—	3	3
65. Incinerators	—	—	—	—	1	1	—	1	1
66. Park systems, landscaping, sodding, etc.	119	41	160	101	35	136	153	36	189
67. Swimming pools, tennis courts, outdoor recreation facilities	10	27	37	—	38	38	—	30	30
68. Mine shafts and other below surface workings	33,163	3,660	36,823	38,520	3,094	41,614	53,868	3,154	57,022
69. Fences, snowsheds, signs, guard rails	19,174	7,431	26,605	19,811	7,876	27,687	19,581	7,823	27,404
70. Other engineering construction	6,808	353	7,161	4,063	219	4,282	53,376	248	53,624

¹ Actual 1963, preliminary 1964, intentions 1965.² Primary industries include agriculture, fishing, mining, quarrying, oil wells and the construction industry. See also footnote 2, Table 3.

TABLE 11. Manufacturing¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	355,174	139,870	495,044	446,029	138,276	584,305	544,990	139,099	684,089
Total building construction	294,318	101,327	395,645	400,895	98,179	499,074	470,466	99,718	570,184
Residential	-	-	-	-	-	-	-	-	-
Industrial	269,281	97,498	366,779	377,872	94,929	472,801	440,275	96,643	536,918
2. Factories, plants, workshops, food canneries	266,532	93,830	360,362	377,259	94,060	471,319	439,294	95,841	535,135
3. Mine and mine mill buildings	941	49	990	250	67	317	448	69	517
4. Railway stations, offices, roadway buildings	-	-	-	2	-	2	-	-	-
5. Railway shops, engine houses, water and fuel stations	1,808	3,619	5,427	361	802	1,163	533	733	1,266
Commercial	24,317	3,193	27,510	22,328	2,801	25,129	27,116	2,674	29,790
6. Warehouses, storehouses, refrigerated storage, etc.	11,262	946	12,208	11,267	792	12,059	15,466	1,009	16,475
7. Grain elevators	185	19	204	136	18	154	119	40	159
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	911	122	1,033	193	71	264	3	66	69
9. Office buildings	11,595	1,966	13,561	10,319	1,794	12,113	11,356	1,449	12,805
10. Stores, retail and wholesale	207	66	273	160	54	214	25	66	91
11. Garages and service stations	144	54	198	144	50	194	141	41	182
12. Theatres, arenas, amusement and recreational buildings	13	20	33	90	20	110	6	3	9
13. Laundries and dry cleaning establishments	-	-	-	19	2	21	-	-	-
Institutional	-	42	42	184	21	205	192	28	220
14. Schools and other educational buildings	-	-	-	108	-	108	50	-	50
15. Churches and other religious buildings	-	-	-	-	-	-	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	-	42	42	76	21	97	142	28	170
17. Other institutional buildings	-	-	-	-	-	-	-	-	-
Other building construction	720	594	1,314	511	428	939	2,883	373	3,256
18. Farm buildings (excluding dwellings)	245	214	459	126	63	189	200	54	254
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	-	-	-	-	-	-	-	-	-
20. Aeroplane hangars	26	21	47	25	15	40	30	10	40
21. Passenger terminals, bus, boat or air	-	-	-	-	-	-	-	-	-
22. Armouries, barracks, drill halls, etc.	-	-	-	-	-	-	-	-	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	385	344	729	223	333	556	2,550	300	2,850
24. Other building construction	64	15	79	137	17	154	103	9	112
Total engineering construction	60,856	38,543	99,399	45,134	40,097	85,231	74,524	39,381	113,905
Marine construction	4,186	1,754	5,940	4,519	1,525	6,044	2,186	1,415	3,601
25. Docks, wharves, piers, breakwaters	3,663	1,152	4,815	4,296	1,000	5,296	2,114	951	3,065
26. Retaining walls, embankments, ripraping	9	12	21	30	47	77	22	17	39
27. Canals and waterways	32	9	41	-	-	-	-	-	-
28. Dredging and pile driving	138	456	594	51	320	371	12	302	314
29. Dyke construction	12	16	28	5	28	33	2	17	19
30. Logging booms	22	74	96	40	130	170	8	128	136
31. Other marine construction	310	35	345	97	-	97	28	-	28

See footnote at end of table.

TABLE 11. Manufacturing¹ — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	5,683	1,772	7,455	5,768	1,455	7,223	6,120	1,433	7,553
32. Hard surfaced or paved streets, highways, parking lots, etc.	3,448	990	4,438	3,252	573	3,825	1,568	603	2,171
33. Gravel or stone streets, highways, roads, parking lots, etc.	377	364	741	630	458	1,088	1,546	409	1,955
34. Dirt, clay or other streets, roads, parking lots, etc.	701	373	1,074	918	376	1,294	2,773	380	3,153
35. Grading, scraping, oiling, filling	949	22	971	942	39	981	180	28	208
36. Sidewalks, paths	26	20	46	8	7	15	35	11	46
37. Aerodromes, landing fields, runways, tarmac	182	3	185	18	2	20	18	2	20
Waterworks and sewage systems	2,428	1,288	3,716	4,353	1,074	5,427	4,639	1,026	5,665
38. Tile drains, drainage ditches, storm sewers	533	76	609	807	46	853	329	38	367
39. Water mains, hydrants and services	605	634	1,239	1,149	479	1,628	1,193	497	1,690
40. Sewage systems and connections	827	238	1,065	1,417	254	1,671	2,437	235	2,672
41. Pumping stations, water	413	270	683	831	204	1,035	650	208	858
42. Water storage tanks	50	70	120	149	91	240	30	48	78
Dams and irrigation	197	143	340	430	49	479	38	95	133
43. Dams and reservoirs	197	143	340	272	49	321	35	94	129
44. Irrigation and land reclamation projects	—	—	—	158	—	158	3	1	4
Electric power construction	4,304	1,148	5,449	5,014	1,327	6,341	5,161	1,321	6,482
45. Electric power generating plants, including water conveying and controlling structures	343	679	1,022	1,160	457	1,617	2,831	563	3,394
46. Electric transformer stations	2,530	99	2,629	2,281	408	2,689	1,613	298	1,911
47. Power transmission and distribution lines, trolley wires	1,388	353	1,741	1,533	441	1,974	619	453	1,072
48. Street lighting	43	14	57	40	21	61	98	7	105
Railway, telephone and telegraph	852	832	1,684	997	850	1,647	802	669	1,471
49. Railway tracks and roadbed	824	777	1,601	986	582	1,568	792	599	1,391
50. Signals and interlockers	3	2	5	—	7	7	—	7	7
51. Telegraph and telephone lines, underground and marine cables	25	53	78	11	81	72	10	63	73
Gas and oil facilities	42,233	30,736	72,969	22,591	32,407	54,998	53,754	31,609	85,363
52. Gas mains and services	84	14	98	8	17	25	36	11	47
53. Pumping stations, oil	34	1	35	—	—	—	—	—	—
54. Pumping stations, gas	—	3	3	—	—	—	—	—	—
55. Oil storage tanks	4,453	966	5,419	2,734	1,094	3,828	1,027	1,248	2,275
56. Gas storage tanks	39	8	47	502	1	503	328	2	330
57. Oil pipe lines	1,359	92	1,451	87	49	116	39	48	87
58. Gas pipe lines	256	29	285	229	34	263	36	29	65
59. Oil wells	—	—	—	—	—	—	—	—	—
80. Gas wells	—	—	—	—	—	—	100	—	100
81. Oil refinery — Processing units ²	35,949	29,623	65,572	19,051	31,209	50,260	52,188	30,271	82,459
62. Natural gas cleaning plants	59	—	59	—	3	3	—	—	—
Other engineering construction	973	873	1,846	1,482	1,610	3,072	1,824	1,813	3,637
63. Bridges, trestles, culverts, overpasses, viaducts	294	185	479	204	65	269	89	274	363
84. Tunnels and subways	1	—	1	—	—	—	—	—	—
65. Incinerators	51	5	56	21	8	29	18	4	22
66. Park systems, landscaping, sodding, etc.	62	175	237	47	178	225	42	204	246
67. Swimming pools, tennis courts, outdoor recreation facilities	6	32	38	2	4	6	20	4	24
68. Mine shafts and other below surface workings	—	1	1	—	21	21	—	14	14
69. Fences, snowsheds, signs, guard rails	357	93	450	158	76	234	161	72	233
70. Other engineering construction	202	382	584	1,030	1,258	2,288	1,494	1,241	2,735

¹ Actual 1963, preliminary 1964, intentions 1965.² Item 61 "Oil refinery — Processing units" includes related structures employed in production of petrochemicals.

TABLE 12. Utilities¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	1,110,323	281,209	1,391,532	1,354,885	292,604	1,647,489	1,439,953	334,104	1,774,057
Total building construction	98,173	32,683	130,856	87,108	37,714	124,822	96,965	41,171	138,136
Residential	—	—	—	—	—	—	—	—	—
Industrial	22,385	17,668	40,053	20,401	21,461	41,862	15,867	25,357	41,224
2. Factories, plants, workshops, food canneries	4,179	2,446	6,625	2,973	1,816	4,789	2,856	1,750	4,606
3. Mine and mine mill buildings	215	—	215	34	—	34	—	—	—
4. Railway stations, offices, roadway buildings	14,409	12,454	26,863	11,092	13,613	24,705	7,871	16,298	24,169
5. Railway shops, engine houses, water and fuel stations	3,582	2,768	6,350	6,302	6,032	12,334	5,140	7,309	12,449
Commercial	36,502	11,216	47,718	38,035	13,484	51,519	42,265	13,163	55,428
6. Warehouses, storehouses, refrigerated storage, etc.	11,453	2,540	13,993	11,822	3,391	15,213	13,012	3,657	16,669
7. Grain elevators	15,118	5,878	20,996	10,426	6,631	17,057	9,027	5,935	14,962
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	6	11	17	11	7	18	50	6	56
9. Office buildings	6,784	1,961	8,745	9,769	1,844	11,613	11,353	1,941	13,294
10. Stores, retail and wholesale	5	—	5	—	—	—	—	—	—
11. Garages and service stations	3,134	826	3,960	5,879	1,598	7,477	8,733	1,612	10,345
12. Theatres, arenas, amusement and recreational buildings	2	—	2	128	13	141	90	12	102
13. Laundries and dry cleaning establishments	—	—	—	—	—	—	—	—	—
Institutional	—	—	—	—	12	12	—	26	26
14. Schools and other educational buildings	—	—	—	—	3	3	—	2	2
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	—	—	—	—	9	9	—	24	24
17. Other institutional buildings	—	—	—	—	—	—	—	—	—
Other building construction	39,286	3,799	43,085	28,672	2,757	31,429	38,833	2,625	41,458
18. Farm buildings (excluding dwellings)	—	—	—	—	—	—	—	—	—
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	37,687	3,184	40,871	27,646	1,563	29,209	27,129	1,770	28,899
20. Aeroplane hangars	147	130	277	326	210	536	447	225	672
21. Passenger terminals, bus, boat or air	1,046	404	1,450	569	897	1,466	11,196	545	11,741
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	59	55	114	59	84	143	61	80	141
24. Other building construction	347	26	373	72	3	75	—	5	5
Total engineering construction	1,012,150	248,526	1,260,676	1,267,777	254,890	1,522,667	1,342,988	292,933	1,635,921
Marine construction	7,914	3,190	11,104	8,618	4,178	12,796	27,834	5,419	33,253
25. Docks, wharves, piers, breakwaters	4,991	2,306	7,297	6,443	2,602	9,045	12,330	2,779	15,109
26. Retaining walls, embankments, ripraping	1,020	18	1,038	22	19	41	95	92	187
27. Canals and waterways	921	345	1,266	1,789	933	2,722	15,054	1,924	16,978
28. Dredging and pile driving	979	491	1,470	364	622	986	355	573	928
29. Dyke construction	—	—	—	—	—	—	—	50	50
30. Logging booms	—	12	12	—	—	—	—	—	—
31. Other marine construction	3	18	21	—	2	2	—	1	1

See footnote at end of table.

TABLE 12. Utilities¹ — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Road, highway and aerodrome construction.....	24,173	762	24,935	57,470	670	58,140	35,891	677	36,568
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	18,988	494	19,482	44,821	500	45,321	30,557	499	31,056
33. Gravel or stone streets, highways, roads, parking lots, etc....	95	105	200	979	87	1,066	1,893	99	1,992
34. Dirt, clay or other streets, roads, parking lots, etc.	624	43	667	159	28	187	40	19	59
35. Grading, scraping, oiling, filling	4,450	111	4,561	11,508	52	11,560	3,341	52	3,393
36. Sidewalks, paths	16	9	25	—	—	—	—	—	—
37. Aerodromes, landing fields, runways, tarmac.....	—	—	—	3	3	6	60	8	68
Waterworks and sewage systems.....	55,895	19,933	75,828	62,514	18,400	80,914	103,720	20,831	124,551
38. Tile drains, drainage ditches, storm sewers	108	28	136	43	11	54	—	21	21
39. Water mains, hydrants and services	45,518	18,166	63,684	51,371	16,531	67,902	80,492	17,083	97,575
40. Sewage systems and connections	199	91	290	109	50	159	37	20	57
41. Pumping stations, water	5,867	1,501	7,368	9,477	1,196	10,673	18,020	1,398	19,418
42. Water storage tanks	4,203	147	4,350	1,514	612	2,126	5,171	2,309	7,480
Dams and irrigation.....	38,100	615	38,715	80,719	631	81,350	90,489	515	91,004
43. Dams and reservoirs	37,991	615	38,606	80,571	628	81,199	90,489	515	91,004
44. Irrigation and land reclamation projects	109	—	109	148	3	151	—	—	—
Electric power construction.....	411,829	51,320	463,149	482,167	52,952	535,119	590,666	56,999	647,665
45. Electric power generating plants, including water conveying and controlling structures	204,418	10,779	215,197	181,932	10,168	192,100	253,556	11,753	265,309
46. Electric transformer stations	30,796	5,998	36,794	79,737	4,610	84,347	83,251	5,119	88,370
47. Power transmission and distribution lines, trolley wires	169,341	31,662	201,003	213,542	35,601	249,143	245,858	37,567	283,425
48. Street lighting	7,274	2,881	10,155	6,956	2,573	8,529	8,001	2,560	10,561
Railway, telephone and telegraph.....	247,633	150,063	397,696	267,940	156,983	424,923	249,583	163,244	433,827
49. Railway tracks and roadbed	122,488	101,746	224,234	136,467	105,672	242,139	104,244	127,074	231,318
50. Signals and interlockers.....	10,184	7,884	18,068	9,631	8,371	18,002	7,151	9,854	17,005
51. Telegraph and telephone lines, underground and marine cables	114,961	40,433	155,394	121,842	42,940	164,782	138,188	46,316	184,504
Gas and oil facilities.....	166,046	11,395	177,441	202,189	9,953	211,242	122,539	9,526	132,065
52. Gas mains and services	62,124	6,082	66,206	48,776	4,197	52,973	43,695	4,377	48,072
53. Pumping stations, oil	2,843	1,203	4,046	3,223	1,515	4,738	2,499	1,608	4,107
54. Pumping stations, gas	29,984	795	30,779	32,596	483	33,079	14,035	423	14,458
55. Oil storage tanks.....	1,310	374	1,684	524	304	828	1,159	361	1,520
56. Gas storage tanks	1,338	28	1,366	1,096	46	1,142	944	36	980
57. Oil pipe lines	19,171	2,218	21,389	19,295	1,799	21,094	20,372	1,958	22,330
58. Gas pipe lines	48,819	535	49,354	96,163	679	96,842	38,997	731	39,728
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	254	139	393	393	16	399	513	16	531
61. Oil refinery — Processing units	—	—	—	—	—	—	—	—	—
62. Natural gas cleaning plants	203	21	224	133	14	147	325	14	339
Other engineering construction	60,560	11,248	71,808	106,160	12,023	118,163	122,266	15,722	137,988
63. Bridges, trestles, culverts, overpasses, viaducts	23,369	8,137	31,506	18,335	8,981	27,316	19,454	11,868	31,322
64. Tunnels and subways	30,155	35	30,190	68,050	181	68,231	75,907	308	76,215
65. Incinerators	—	—	—	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.....	89	26	115	32	30	62	—	59	59
67. Swimming pools, tennis courts, outdoor recreation facilities	3	—	3	—	—	—	—	—	—
68. Mine shafts and other below surface workings	—	6	6	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	2,111	2,012	4,123	1,749	2,079	3,828	1,074	2,598	3,672
70. Other engineering construction	4,833	1,032	5,865	17,994	752	18,746	25,831	889	26,720

¹ Actual 1963, preliminary 1964, intentions 1965.

TABLE 13. Trade Finance and Commercial Services¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	467,689	73,326	541,015	513,403	77,372	590,775	760,056	61,192	841,250
Total building construction	454,682	71,329	526,011	495,087	75,937	571,034	716,747	79,862	796,609
Residential	—	—	—	—	—	—	—	—	—
Industrial	11,386	549	11,935	16,787	523	17,310	24,239	610	24,849
2. Factories, plants, workshops, food canneries	11,386	549	11,935	16,787	523	17,310	22,489	610	23,099
3. Mine and mine mill buildings	—	—	—	—	—	—	—	—	—
4. Railway stations, offices, roadway buildings	—	—	—	—	—	—	1,500	—	1,500
5. Railway shops, engine houses, water and fuel stations	—	—	—	—	—	—	250	—	250
Commercial	439,075	70,744	509,819	472,905	75,359	546,264	685,621	79,179	764,800
6. Warehouses, storehouses, refrigerated storage, etc.	25,401	6,168	31,569	27,853	6,566	34,419	26,767	5,945	32,712
7. Grain elevators	—	—	—	84	—	84	45	51	96
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	48,979	11,477	60,456	55,105	11,411	66,516	97,011	12,751	109,762
9. Office buildings	158,609	15,099	173,708	194,501	17,066	211,587	277,209	20,330	297,539
10. Stores, retail and wholesale	143,649	26,110	169,759	145,343	27,283	172,626	182,337	28,298	210,635
11. Garages and service stations	27,429	8,968	36,397	25,681	8,649	34,330	31,362	8,362	39,724
12. Theatres, arenas, amusement and recreational buildings	33,096	1,828	34,924	22,508	3,311	25,819	69,532	2,600	72,132
13. Laundries and dry cleaning establishments	1,912	1,094	3,006	1,830	1,073	2,903	1,358	842	2,200
Institutional	1,091	34	1,125	10	3	13	1,265	—	1,265
14. Schools and other educational buildings	200	—	200	—	3	3	—	—	—
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	332	—	332	—	—	—	—	—	—
17. Other institutional buildings	559	34	593	10	—	10	1,285	—	1,265
Other building construction	3,130	2	3,132	5,395	52	5,447	5,622	73	5,695
18. Farm buildings (excluding dwellings)	782	2	784	557	—	557	2	1	3
19. Broadcasting, radio and television, relay and booster stations telephone exchanges	—	—	—	—	—	—	—	—	—
20. Aeroplane hangars	—	—	—	—	—	—	—	—	—
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	31	—	31	5	1	6	—	—	—
24. Other building construction	2,317	—	2,317	4,833	51	4,884	5,620	72	5,692
Total engineering construction	13,007	1,997	15,004	18,306	1,435	19,741	43,311	1,330	44,641
Marine construction	642	58	700	365	7	392	1,860	15	1,875
25. Docks, wharves, piers, breakwaters	575	32	807	127	7	134	803	15	818
26. Retaining walls, embankments, ripraping	64	11	75	250	—	250	610	—	610
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	3	15	18	—	—	—	—	—	—
29. Dyke construction	—	—	—	3	—	3	8	—	8
30. Logging booms	—	—	—	5	—	5	439	—	439
31. Other marine construction	—	—	—	—	—	—	—	—	—

See footnote at end of table.

TABLE 13. Trade Finance and Commercial Services¹ — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	4,473	438	4,911	3,689	505	4,194	8,184	521	8,705
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	4,035	385	4,420	2,616	422	3,038	7,507	423	7,930
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	99	43	142	197	64	261	229	77	306
34. Dirt, clay or other streets, roads, parking lots, etc. ..	104	2	106	45	5	50	13	4	17
35. Grading, scraping, oiling, filling	143	8	151	804	12	816	377	14	391
36. Sidewalks, paths	92	—	92	27	2	29	58	3	61
37. Aerodromes, landing fields, runways, tarmac	—	—	—	—	—	—	—	—	—
Waterworks and sewage systems	1,860	15	1,875	1,933	20	1,953	4,505	16	4,521
38. Tile drains, drainage ditches, storm sewers	730	7	737	511	4	515	851	4	855
39. Water mains, hydrants and services	536	1	537	897	—	897	1,827	—	1,827
40. Sewage systems and connections	576	7	583	476	16	492	1,642	12	1,654
41. Pumping stations, water	14	—	14	49	—	49	185	—	185
42. Water storage tanks	4	—	4	—	—	—	—	—	—
Dams and irrigation	—	—	—	—	—	—	264	—	264
43. Dams and reservoirs	—	—	—	—	—	—	264	—	264
44. Irrigation and land reclamation projects	—	—	—	—	—	—	—	—	—
Electric power construction	171	14	185	555	7	562	3,636	9	3,645
45. Electric power generating plants, including water conveying and controlling structures	3	3	6	—	—	—	30	—	30
46. Electric transformer stations	61	1	62	88	1	89	—	2	2
47. Power transmission and distribution lines, trolley wires	87	9	96	254	5	259	3,012	5	3,017
48. Street lighting	20	1	21	213	1	214	594	2	596
Railway, telephone and telegraph	52	2	54	128	—	128	3,341	—	3,341
49. Railway tracks and roadbed	40	2	42	126	—	126	2,010	—	2,010
50. Signals and interlockers	—	—	—	—	—	—	700	—	700
51. Telegraph and telephone lines, underground and marine cables	12	—	12	2	—	2	631	—	631
Gas and oil facilities	5,242	980	6,222	3,761	857	4,618	3,979	732	4,711
52. Gas mains and services	—	—	—	7	1	8	470	—	470
53. Pumping stations, oil	—	33	33	—	—	—	—	—	—
54. Pumping stations, gas	48	1	49	139	30	169	111	10	121
55. Oil storage tanks	4,263	933	5,196	3,615	782	4,397	3,398	712	4,110
56. Gas storage tanks	—	—	—	—	22	22	—	—	—
57. Oil pipe lines	709	13	722	—	22	22	—	10	10
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells	6	—	6	—	—	—	—	—	—
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery — Processing units	216	—	216	—	—	—	—	—	—
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	567	490	1,057	7,855	39	7,894	17,542	37	17,579
63. Bridges, trestles, culverts, overpasses, viaducts	6	—	6	5,516	—	5,516	13,461	—	13,461
64. Tunnels and subways	—	—	—	—	—	—	—	—	—
65. Incinerators	—	—	—	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	152	5	157	416	14	430	1,906	23	1,929
67. Swimming pools, tennis courts, outdoor recreation facilities ..	132	410	542	889	—	889	185	1	186
68. Mine shafts and other below surface workings	—	—	—	—	—	—	10	—	10
69. Fences, snowsheds, signs, guard rails	178	5	183	266	25	291	504	13	517
70. Other engineering construction	99	70	169	768	—	768	1,476	—	1,476

¹ Actual 1963, preliminary 1964, intentions 1965.

TABLE 14. Federal Government Department¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
Total value of construction									
Total building construction	197,285	77,061	274,346	208,874	76,726	285,600	246,372	82,108	328,480
New thousands of dollars									
2. Factories, plants, workshops, food canneries	99,181	48,463	147,644	104,969	48,195	153,164	121,541	51,485	173,026
6. Warehouse, storehouse, refrigerated storage, etc.	8,681	7,104	15,785	8,969	7,075	16,044	10,212	7,572	17,784
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,292	2,207	4,499	2,569	2,204	4,773	2,940	2,364	5,304
9. Office buildings	1,461	1,245	2,706	1,447	1,239	2,686	1,633	1,324	2,957
10. Stores, retail and wholesale	32,804	9,424	42,228	34,392	9,391	43,783	39,929	10,051	49,980
11. Garages and service stations	1,060	129	1,189	1,212	128	1,340	1,356	135	1,491
12. Theatres, arenas, amusement and recreational buildings	1,260	1,011	2,271	1,451	1,006	2,457	1,688	1,073	2,761
14. Schools and other educational buildings	793	783	1,576	866	775	1,641	1,023	827	1,850
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	6,095	2,625	8,720	6,514	2,633	9,147	7,564	2,846	10,410
17. Other institutional buildings	2,118	2,183	4,301	2,328	2,168	4,496	2,760	2,314	5,074
18. Farm buildings (excluding dwellings)	4,258	174	4,432	5,443	176	5,619	6,638	169	6,825
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	3,541	178	3,719	3,438	179	3,617	4,239	192	4,431
20. Aeroplane hangars	4,827	2,600	7,427	5,244	2,579	7,823	6,185	2,744	8,929
21. Passenger terminals, bus, boat or air	1,820	2,851	4,671	2,345	2,828	5,173	2,769	3,009	5,778
22. Armouries, barracks, drill halls, etc.	20,639	10	20,649	20,193	10	20,203	22,496	11	22,507
24. Other building construction	3,380	14,127	17,507	3,802	14,009	17,811	4,495	14,929	19,424
Total engineering construction	4,152	1,812	5,964	4,756	1,795	6,551	5,616	1,905	7,521
25. Docks, wharves, piers, breakwaters	98,104	28,598	126,702	103,905	28,531	132,436	124,831	30,623	135,454
26. Retaining walls, embankments, ripraping	18,629	3,486	22,115	23,191	3,468	26,659	29,356	3,714	33,070
27. Canals and waterways	1,402	221	1,623	1,933	220	2,153	2,333	234	2,567
28. Dredging and pile driving	1,251	265	1,516	1,242	262	1,504	1,393	278	1,671
29. Dyke construction	1,809	3,792	5,601	2,267	3,794	6,061	2,769	4,086	6,855
31. Other marine construction	5	7	12	5	7	12	5	8	13
32. Hard surfaced or paved streets, highways, parking lots, etc.	1,430	325	1,755	1,708	326	2,034	2,264	354	2,618
33. Gravel or stone streets, highways, roads, parking lots, etc.	11,736	2,117	13,853	12,161	2,113	14,274	13,848	2,256	16,104
34. Dirt, clay or other streets, roads, parking lots, etc.	4,602	1,699	6,301	5,060	1,708	6,768	6,089	1,851	7,940
35. Grading, scraping, oiling filling	1,007	416	1,423	1,118	414	1,532	1,335	444	1,779
37. Aerodromes, landing fields, runways, tarmac	150	211	361	181	211	392	225	226	451
38. Tile drains, drainage ditches, storm sewers	16,924	2,101	19,025	17,017	2,086	19,103	19,789	2,231	22,020
39. Water mains, hydrants and services	441	342	783	444	341	785	504	364	868
40. Sewage systems and connections	1,796	874	2,670	1,890	869	2,759	2,179	927	3,106
43. Dams and reservoirs	1,004	616	1,620	1,154	614	1,768	1,359	656	2,015
44. Irrigation and land reclamation projects	18,191	1,394	19,585	15,454	1,412	16,866	19,340	1,540	20,880
45. Electric power generating plants, including water conveying and controlling structures	602	725	1,327	579	730	1,309	605	792	1,397
46. Electric transformer stations	1,350	2,361	3,711	1,441	2,343	3,784	1,657	2,515	4,172
47. Power transmission and distribution lines, trolley wires	1,814	450	2,264	1,764	443	2,207	1,955	466	2,421
55. Oil storage tanks	956	734	1,690	1,061	728	1,789	1,244	779	2,023
57. Oil pipe lines	235	55	290	275	55	330	332	60	392
63. Bridges, trestles, culverts, overpasses, viaducts	916	—	916	1,152	—	1,152	1,324	—	1,324
66. Park systems, landscaping, sodding, etc.	2,009	665	2,674	2,546	660	3,206	3,087	701	3,788
67. Swimming pools, tennis courts, outdoor recreation facilities...	1,600	2,017	3,617	1,827	2,011	3,838	2,177	2,157	4,334
69. Fences, snowsheds, signs, guard rails	782	283	1,065	835	281	1,116	931	302	1,233
70. Other engineering construction	1,471	896	2,367	1,449	897	2,346	1,742	969	2,711
	5,992	2,546	8,538	6,151	2,538	8,689	6,989	2,713	9,702

¹ Actual 1963, preliminary 1964, intentions 1965.

TABLE 15. Provincial Government Departments¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	532,397	145,680	678,077	668,145	175,485	843,630	832,850	180,354	1,013,204
Total building construction	30,396	24,588	54,984	50,618	21,543	72,161	80,680	21,197	101,877
6. Warehouses, storehouses, refrigerated storage, etc.	1,699	559	2,258	6,763	1,584	8,347	4,011	1,917	5,928
9. Office buildings	12,695	10,334	23,029	23,460	15,893	39,353	45,569	14,251	59,820
10. Stores, retail and wholesale	273	16	289	790	8	798	228	17	245
17. Other institutional buildings	8,106	11,295	19,401	12,279	2,429	14,708	23,162	3,058	26,220
24. Other building construction	7,623	2,384	10,007	7,326	1,629	8,955	7,710	1,954	9,664
Total engineering construction	502,001	121,092	623,093	617,527	153,942	771,469	752,170	159,157	911,327
25. Docks, wharves, piers, breakwaters	1,124	213	1,337	137	23	160	152	64	216
26. Retaining walls, embankments, ripraping	2,206	798	3,004	15,653	13	15,666	18,131	11	18,142
31. Other marine construction	2,062	478	2,540	738	1,590	2,328	1,085	1,710	2,795
32. Hard surfaced or paved streets, highways, parking lots, etc.	199,268	39,261	238,529	400,418	75,399	475,817	502,992	82,279	585,271
33. Gravel or stone streets, highways, roads, parking lots, etc.	154,781	47,460	202,241	83,111	53,953	137,064	66,114	49,739	135,853
34. Dirt, clay or other streets, roads, parking lots, etc.	4,350	391	4,741	1,546	463	2,009	1,240	527	1,767
35. Grading, scraping, oiling, filling	14,501	11,682	26,183	18,044	1,968	20,012	18,931	2,897	21,828
38. Tile drains, drainage ditches, storm sewers	1,678	1,269	2,947	4,686	474	5,160	5,427	288	5,715
39. Water mains, hydrants and services	575	23	598	853	67	920	1,976	118	2,094
40. Sewage systems and connections	704	7	711	291	19	310	807	40	847
43. Dams and reservoirs	138	3	141	323	4	327	315	36	351
44. Irrigation and land reclamation projects	1,875	11	1,886	6,953	96	7,049	7,252	141	7,393
47. Power transmission and distribution lines, trolley wires	94	3	97	198	54	252	169	59	228
51. Telegraph and telephone lines, underground and marine cables	718	20	738	12	9	21	8	11	19
63. Bridges, trestles, culverts, overpasses, viaducts	110,279	12,067	122,346	78,065	17,636	95,701	100,188	18,722	118,910
66. Park systems, landscaping, sodding, etc.	3,427	3,915	7,342	1,560	1,019	2,579	1,998	1,211	3,209
67. Swimming pools, tennis courts, outdoor recreation facilities	88	4	92	1,134	455	1,589	1,426	587	2,013
69. Fences, snowsheds, signs, guard rails	1,189	2,651	3,840	1,472	151	1,623	1,525	233	1,758
70. Other engineering construction	2,944	836	3,780	2,333	549	2,882	2,434	484	2,918

¹ Actual 1963, preliminary 1964, intentions 1965.

TABLE 16. Municipal Government Departments¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	424,088	110,207	534,295	438,508	103,701	542,209	474,479	101,261	575,740
Total building construction	66,789	8,146	74,935	68,210	7,877	76,087	96,314	6,878	103,192
9. Office buildings	26,493	1,935	28,428	23,209	1,520	24,729	21,181	1,592	22,773
12. Theatres, arenas, amusement and recreational buildings	19,029	3,656	22,685	18,469	3,646	22,115	28,016	2,861	30,877
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	6,258	346	6,604	7,742	287	8,029	6,957	298	7,255
17. Other institutional buildings	2,128	122	2,250	10,813	918	11,731	26,565	748	27,313
30. Other building construction	12,881	2,087	14,968	7,977	1,506	9,483	13,595	1,379	14,974
Total engineering construction	357,299	102,061	459,360	370,298	95,824	486,122	378,165	94,383	472,548
32. Hard surfaced or paved streets, highways, parking lots, etc.	145,367	65,902	211,269	152,182	61,404	213,586	163,699	61,088	224,787
36. Sidewalks, paths	19,975	5,332	25,307	19,740	4,701	24,441	21,339	4,814	26,153
40. Sewage systems and connections	115,464	11,315	126,779	126,702	11,857	138,559	117,978	10,831	128,809
48. Street lighting	5,571	4,034	9,605	6,212	3,855	10,067	5,605	3,546	9,151
63. Bridges, trestles, culverts, overpasses, viaducts	42,211	2,693	44,904	37,211	2,473	39,684	38,806	2,578	41,384
70. Other engineering construction	28,711	12,785	41,496	28,251	11,534	39,785	30,738	11,526	42,264

¹ Actual 1963, preliminary 1964, intentions 1965.

TABLE 17. Housing and Institutional Services¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Residential	1,713,400	544,000	2,257,400	2,027,500	572,000	2,604,500	2,244,000	612,000	2,856,000
Institutional:									
Total value of work	756,862	60,236	817,098	651,733	59,105	710,838	856,337	62,822	919,159
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,459	—	2,459	3	3	6	600	3	603
9. Office buildings	5	—	5	560	23	583	620	36	656
12. Theatres, arenas, amusement and recreational buildings	514	15	529	706	17	723	3,338	24	3,362
14. Schools and other educational buildings	535,913	30,838	566,751	428,047	30,923	458,970	575,278	32,259	607,537
15. Churches and other religious buildings	46,885	7,038	53,923	47,500	6,962	54,462	48,947	9,130	58,077
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	148,597	20,505	169,102	151,034	19,304	170,338	189,544	19,705	209,249
17. Other institutional buildings	16,184	1,421	17,605	14,895	1,504	16,399	21,401	1,372	22,773
18. Farm buildings (excluding dwellings)	39	39	78	—	16	16	11	1	12
23. Bunkhouses, dormitories, camp cookeries bush depots and camps	3,168	53	3,221	2,672	97	2,769	8,444	81	8,525
24. Other building construction	8	2	10	371	61	432	289	44	333
Total engineering construction	3,090	325	3,415	5,945	195	6,140	7,865	167	8,032

¹ Actual 1963, preliminary 1964, intentions 1965.

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE - PROVINCES 1963-65¹

Table 18, Newfoundland

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	158,965	26,250	185,215	166,031	29,319	195,350	137,947	30,904	168,851
Total building construction	99,199	14,351	113,550	86,625	15,515	102,140	78,244	17,027	95,271
Residential	31,300	7,600	38,900	34,800	9,800	44,600	38,100	10,400	48,500
Industrial	40,007	1,842	41,849	22,685	1,934	24,619	8,982	1,898	10,880
Commercial	8,634	2,401	11,035	11,804	2,135	13,939	12,748	2,402	15,150
Institutional	17,646	1,814	19,460	16,280	1,134	17,414	15,827	1,785	17,612
Other building construction	1,612	694	2,306	1,056	512	1,568	2,587	542	3,129
Total engineering construction	59,766	11,899	71,665	79,406	13,804	93,210	59,703	13,877	73,580
Marine construction	5,290	1,524	6,814	15,938	1,561	17,499	11,836	1,623	13,459
Road, highway and aerodrome construction	26,816	7,851	34,667	43,668	9,728	53,396	36,940	9,816	46,756
Waterworks and sewage systems	3,242	426	3,668	1,735	237	1,972	385	165	550
Dams and irrigation	641	70	711	18	69	87	18	4	22
Electric power construction	14,416	733	15,149	5,994	790	6,784	4,523	648	5,171
Railway, telephone and telegraph	4,580	979	5,559	3,328	1,007	4,335	1,888	1,230	3,118
Gas and oil facilities	1,025	116	1,141	234	32	266	920	42	962
Other engineering construction	3,756	200	3,956	8,491	380	8,871	3,193	349	3,542

TABLE 19. Prince Edward Island¹

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	29,528	8,798	38,326	26,389	8,044	34,433	27,298	8,338	35,636
Total building construction	18,106	5,403	23,509	16,975	4,356	21,331	17,751	4,611	22,362
Residential	7,400	2,700	10,100	5,600	1,700	7,300	6,700	1,800	8,500
Industrial	231	227	458	1,775	200	1,975	2,508	231	2,739
Commercial	4,639	656	5,295	6,742	677	7,419	4,359	762	5,121
Institutional	4,932	391	5,323	1,427	276	1,703	2,655	259	2,914
Other building construction	904	1,429	2,333	1,431	1,503	2,934	1,529	1,559	3,088
Total engineering construction	11,422	3,385	14,817	9,414	3,688	13,102	9,547	3,727	13,274
Marine construction	1,142	716	1,858	1,109	716	1,825	1,199	767	1,966
Road, highway and aerodrome construction	6,009	1,476	7,485	5,446	1,763	7,209	5,330	1,780	7,110
Waterworks and sewage systems	415	286	701	219	239	458	182	242	423
Dams and irrigation	80	66	146	89	78	167	91	77	168
Electric power construction	2,564	354	2,918	795	465	1,260	1,049	362	1,411
Railway, telephone and telegraph	770	163	933	664	168	832	560	205	765
Gas and oil facilities	16	—	16	248	3	251	67	4	71
Other engineering construction	426	334	760	844	256	1,100	1,070	290	1,360

¹ Actual 1963, preliminary 1964, intentions 1965.

TABLE 20. Nova Scotia^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	155,787	57,321	213,108	162,352	56,930	219,282	223,413	62,558	285,971
Total building construction.....	97,522	33,039	130,561	100,455	29,762	130,217	139,745	31,118	170,863
Residential	44,300	15,200	59,500	47,000	13,300	60,300	51,600	14,100	65,700
Industrial	8,910	4,670	13,580	14,847	3,587	18,444	25,502	3,563	29,065
2. Factories, plants, workshops, food canneries	8,216	4,147	12,363	14,184	2,947	17,131	25,120	2,756	27,876
3. Mine and mine mill buildings	118	42	160	190	65	255	82	106	188
4. Railway stations, offices, roadway buildings	439	346	785	340	396	736	217	488	705
5. Railway shops, engine houses, water and fuel stations	137	135	272	133	189	322	83	213	296
Commercial	14,572	5,209	19,781	13,782	4,857	18,649	20,864	5,148	26,012
6. Warehouses, storehouses, refrigerated atorage, etc.	907	957	1,864	1,630	839	2,469	1,499	835	2,334
7. Grain elevators.....	24	59	83	256	78	334	1,005	102	1,107
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,340	642	1,982	750	536	1,286	1,546	649	2,195
9. Office buildings	3,377	1,726	5,103	3,831	1,421	5,252	7,004	1,637	8,641
10. Stores, retail and wholesale.....	6,794	838	7,832	5,329	1,155	6,484	7,600	1,164	8,764
11. Garages and service stations.....	1,728	656	2,384	1,339	439	1,778	1,377	463	1,840
12. Theatres, arenas, amusement and recreational buildings	402	323	725	612	361	973	833	282	1,115
13. Laundries and dry cleaning establishments.....	—	8	8	45	28	73	—	16	16
Institutional	24,942	2,572	27,514	20,154	2,763	22,917	36,416	2,892	39,308
14. Schools and other educational buildings	13,895	1,391	15,286	8,331	1,370	9,701	17,929	1,310	19,239
15. Churches and other religious buildings	1,460	203	1,663	4,160	418	4,578	5,089	352	5,441
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	8,125	877	9,002	7,124	924	8,048	12,965	1,191	14,156
17. Other institutional buildings	1,462	101	1,563	539	51	590	433	39	472
Other building construction	4,798	5,388	10,186	4,662	5,245	9,907	5,363	5,415	10,778
18. Farm buildings (excluding dwellings).....	1,767	1,037	2,804	1,839	1,077	2,916	1,850	1,082	2,932
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	652	472	1,124	246	361	607	587	374	961
20. Aeroplane hangars	811	651	1,462	1,010	637	1,647	1,165	667	1,832
21. Passenger terminals, bus, boat or air	658	10	668	394	5	399	430	2	432
22. Armouries, barracks, drill halls, etc.	348	2,463	2,811	473	2,420	2,893	545	2,537	3,082
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps.....	76	46	122	94	48	142	95	51	146
24. Other building construction	486	709	1,195	606	697	1,303	691	702	1,393
Total engineering construction	58,265	24,282	82,547	61,897	27,168	89,065	83,668	31,440	115,108
Marine construction	6,699	1,603	8,302	7,930	1,537	9,467	9,132	1,750	10,882
25. Docks, wharves, piers, breakwaters	5,987	1,129	7,116	6,887	963	7,850	7,919	1,139	9,058
26. Retaining walls, embankments, ripraping	298	55	353	405	54	459	466	56	522
27. Canals and waterways	—	1	1	—	—	—	—	—	—
28. Dredging and pile driving	61	380	441	83	383	466	95	391	486
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	353	38	391	555	137	692	652	164	816

See footnotes at end of table.

TABLE 20. Nova Scotia^{1,2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	19,707	10,140	29,847	21,667	12,593	34,260	28,665	13,530	42,195
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	17,289	9,183	26,472	19,497	11,650	31,147	25,243	12,532	37,775
33. Gravel or stone streets, highways, roads, parking lots, etc.	312	210	522	297	208	505	473	220	693
34. Dirt, clay or other streets, roads, parking lots, etc.	465	231	696	460	230	690	469	246	715
35. Grading, scraping, oiling, filling	10	13	23	10	13	23	35	16	51
36. Sidewalks, paths	1,282	83	1,365	929	79	1,008	1,899	83	1,982
37. Aerodromes, landing fields, runways, tarmac	349	420	769	474	413	887	546	433	979
Waterworks and sewage systems	4,202	1,494	5,696	4,722	1,648	6,370	7,145	1,535	8,680
38. Tile drains, drainage ditches, storm sewers.....	473	186	659	231	182	413	337	194	531
39. Water mains, hydrants and services	1,599	822	2,421	1,206	591	1,797	3,780	541	4,321
40. Sewage systems and connections	2,058	435	2,493	3,095	851	3,946	2,603	772	3,375
41. Pumping stations, water.....	8	33	41	23	8	31	397	10	407
42. Water storage tanks.....	64	18	82	167	16	183	28	18	46
Dams and irrigation	574	230	804	656	221	877	804	228	1,032
43. Dams and reservoirs	359	104	463	432	87	519	579	97	676
44. Irrigation and land reclamation projects	215	126	341	224	134	358	225	131	356
Electric power construction.....	6,261	2,367	8,628	8,619	2,007	10,626	21,664	3,828	25,492
45. Electric power generating plants, including water conveying and controlling structures	1,964	343	2,307	2,940	311	3,251	8,810	971	9,781
46. Electric transformer stations.....	361	427	788	712	377	1,089	1,661	530	2,191
47. Power transmission and distribution lines, trolley wires	3,704	1,522	5,226	4,398	1,172	5,570	10,196	2,142	12,338
48. Street lighting	232	75	307	569	147	716	997	185	1,182
Railway, telephone and telegraph	7,316	4,328	11,644	6,684	4,419	11,183	5,785	5,415	11,200
49. Railway tracks and roadbed.....	3,690	3,047	6,737	2,844	3,144	5,988	1,958	3,960	5,918
50. Signals and interlockers.....	258	198	456	207	218	425	142	272	414
51. Telegraph and telephone lines underground and marine cables	3,368	1,083	4,451	3,633	1,057	4,690	3,685	1,183	4,868
Gas and oil facilities	8,940	1,538	10,478	3,005	1,998	5,003	2,228	2,067	4,295
52. Gas mains and services	—	—	—	—	—	—	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks.....	1,569	11	1,580	361	55	416	237	47	284
56. Gas storage tanks	—	7	7	—	—	—	—	—	—
57. Oil pipe lines.....	1,799	39	1,838	952	—	952	1,092	6	1,098
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells.....	—	—	—	431	—	431	—	—	—
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery—Processing units ³	5,572	1,481	7,053	1,261	1,943	3,204	899	2,014	2,913
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	4,568	2,582	7,148	8,614	2,745	11,359	8,245	3,087	11,332
63. Bridges, trestles, culverts, overpasses, viaducts	2,945	1,581	4,526	4,414	1,526	5,940	4,990	1,772	6,762
64. Tunnels and subways	—	20	20	1	20	21	1	21	22
65. Incinerators	—	3	3	5	3	8	—	3	3
66. Park systems, landscaping, sodding, etc.....	372	121	493	630	147	777	712	163	875
67. Swimming pools, tennis courts, outdoor recreation facilities...	34	38	72	8	37	45	10	39	49
68. Mine shafts and other below surface workings	596	294	890	2,231	470	2,701	698	505	1,203
69. Fences, snowsheds, signs, guard rails	451	295	746	384	306	690	386	331	717
70. Other engineering construction	168	230	398	941	236	1,177	1,448	253	1,701

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery-Processing units" includes related structures employed in production of petrochemicals.

TABLE 21. New Brunswick^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	117,783	40,740	158,523	155,875	41,795	197,670	196,958	46,540	243,498
Total building construction	66,467	20,055	86,522	90,476	19,874	110,350	116,624	21,293	137,917
Residential	24,000	10,300	34,300	33,500	9,800	43,300	38,100	10,400	48,500
Industrial	12,021	2,846	14,867	25,871	2,499	28,370	31,894	3,100	34,994
2. Factories, plants, workshops, food canneries	5,736	1,853	7,589	20,945	1,438	22,383	29,786	1,397	31,183
3. Mine and mine mill buildings	5,414	22	5,436	3,954	32	3,986	1,588	531	2,099
4. Railway stations, offices, roadway buildings	601	572	1,173	582	633	1,215	326	771	1,097
5. Railway shops, engine houses, water and fuel stations	270	399	669	390	396	786	214	401	615
Commercial	10,020	3,223	13,243	13,134	3,550	16,684	19,845	3,944	23,789
6. Warehouses, storehouses, refrigerated storage, etc.	821	455	1,276	2,584	536	3,120	1,939	497	2,436
7. Grain elevators	3	43	46	6	16	22	2	21	23
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,030	230	1,260	1,170	253	1,423	2,288	261	2,549
9. Office buildings	3,880	1,352	5,232	6,310	1,524	7,834	8,403	1,812	10,215
10. Stores, retail and wholesale	2,522	621	3,143	2,223	638	2,861	5,381	773	6,154
11. Garages and service stations	1,479	357	1,836	413	497	910	1,013	482	1,495
12. Theatres, arenas, amusement and recreational buildings	236	99	335	412	70	482	803	82	885
13. Laundries and dry cleaning establishments	49	66	115	18	16	32	16	16	32
Institutional	15,804	1,355	17,159	12,578	1,293	13,871	17,926	1,031	18,957
14. Schools and other educational buildings	10,369	407	10,776	8,980	264	9,244	11,541	207	11,748
15. Churches and other religious buildings	1,681	172	1,853	1,544	298	1,842	1,963	232	2,195
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	3,649	702	4,351	1,629	657	2,286	3,280	537	3,817
17. Other institutional buildings	105	74	179	425	74	499	1,142	55	1,197
Other building construction	4,622	2,331	6,953	5,393	2,732	8,125	8,859	2,818	11,677
18. Farm buildings (excluding dwellings)	1,518	1,034	2,552	1,685	1,148	2,833	1,700	1,157	2,857
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	741	273	1,014	886	259	1,145	1,840	279	2,119
20. Aeroplane hangars	565	77	642	883	76	959	1,253	81	1,334
21. Passenger terminals, bus, boat or air	93	16	109	150	14	164	156	15	171
22. Armouries, barracks, drill halls, etc.	481	315	796	666	313	979	805	333	1,138
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	727	146	873	465	445	910	2,368	301	2,669
24. Other building construction	497	470	967	658	477	1,135	737	652	1,389
Total engineering construction	51,316	20,685	72,001	65,399	21,921	87,320	80,334	25,247	105,581
Marine construction	2,936	963	3,899	4,221	916	5,137	5,362	1,001	6,363
25. Docks, wharves, piers, breakwaters	1,274	520	1,794	1,883	483	2,366	2,581	490	3,071
26. Retaining walls, embankments, ripraping	655	28	683	907	28	935	1,096	30	1,126
27. Canals and waterways	—	1	1	—	—	—	—	—	—
28. Dredging and pile driving	900	341	1,241	1,283	335	1,618	1,506	392	1,898
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	—	30	30	—	27	27	—	44	44
31. Other marine construction	107	43	150	148	43	191	179	45	224

See footnotes at end of table.

TABLE 21. New Brunswick^{1, 2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	20,341	7,954	28,295	27,316	9,371	36,687	27,086	10,932	38,018
32. Hard surfaced or paved streets, highways, parking lots, etc.	15,034	1,224	16,258	21,451	1,818	23,269	21,283	2,718	24,001
33. Gravel or stone streets, highways, roads, parking lots, etc.	4,052	5,949	10,001	3,767	6,655	10,422	3,885	7,161	11,046
34. Dirt, clay or other streets, roads, parking lots, etc.	489	444	933	931	591	1,522	737	727	1,464
35. Grading, scraping, oiling, filling	66	4	70	253	6	259	110	6	116
36. Sidewalks, paths	142	96	238	143	68	211	137	67	204
37. Aerodromes, landing fields, runways, tarmac	558	237	795	771	233	1,004	934	253	1,187
Waterworks and sewage systems	2,081	1,252	3,333	4,747	642	5,389	5,856	593	6,449
38. Tile drains, drainage ditches, storm sewers	166	115	281	210	129	339	183	130	313
39. Water mains, hydrants and services	946	966	1,912	2,950	340	3,290	905	297	1,202
40. Sewage systems and connections	695	139	834	1,276	143	1,419	738	138	876
41. Pumping stations, water	247	11	258	253	8	261	4	9	13
42. Water storage tanks	27	21	48	58	22	80	4,026	19	4,045
Dams and irrigation	1,079	153	1,232	211	168	379	219	173	392
43. Dams and reservoirs	889	21	910	—	22	22	5	26	31
44. Irrigation and land reclamation projects	190	132	322	211	146	357	214	147	361
Electric power construction	8,575	1,342	9,917	12,525	1,332	13,857	28,154	1,673	29,827
45. Electric power generating plants, including water conveying and controlling structures	2,393	84	2,477	3,084	190	3,274	20,568	407	20,975
46. Electric transformer stations	685	5	690	2,331	30	2,361	830	28	858
47. Power transmission and distribution lines, trolley wires	5,346	1,234	6,580	6,890	1,020	7,910	6,560	1,143	7,703
48. Street lighting	151	19	170	220	92	312	196	95	291
Railway, telephone and telegraph	9,260	5,998	15,258	9,221	6,274	15,495	6,567	7,484	14,051
49. Railway tracks and roadbed	5,296	4,575	9,871	5,276	4,805	10,081	2,799	5,890	8,689
50. Signals and interlockers	350	375	725	447	374	821	229	455	684
51. Telegraph and telephone lines, underground and marine cables	3,614	1,048	4,662	3,498	1,095	4,593	3,539	1,139	4,678
Gas and oil facilities	427	571	998	383	781	1,164	312	782	1,094
52. Gas mains and services	—	8	8	4	10	14	6	10	16
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	255	5	260	308	21	327	252	22	274
56. Gas storage tanks	34	—	34	—	—	—	—	—	—
57. Oil pipe lines	27	—	27	35	—	35	3	—	3
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells	25	—	25	5	—	5	21	—	21
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery — Processing units ³	86	558	644	33	750	783	30	750	780
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	6,617	2,452	9,069	6,775	2,437	9,212	6,778	2,609	9,387
63. Bridges, trestles, culverts, overpasses, viaducts	3,418	1,559	4,977	4,579	1,638	6,217	5,266	1,756	7,022
64. Tunnels and subways	—	22	22	7	22	29	2	23	25
65. Incinerators	—	—	—	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	96	216	312	158	222	380	214	240	454
67. Swimming pools, tennis courts, outdoor recreation facilities	116	20	136	171	20	191	204	21	225
68. Mine shafts and other below surface workings	2,104	—	2,104	1,147	—	1,147	400	—	400
69. Fences, snowsheds, signs, guard rails	381	397	778	409	299	708	346	329	675
70. Other engineering construction	502	238	740	304	236	540	346	240	586

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery-Processing units" includes related structures employed in production of petrochemicals.

TABLE 22. Quebec^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,581,136	382,784	1,963,920	1,941,598	395,647	2,337,245	2,360,462	417,912	2,778,374
Total building construction	1,009,495	256,675	1,266,170	1,129,559	258,930	1,388,489	1,340,541	271,629	1,612,170
Residential	493,900	155,100	649,000	548,900	156,400	705,300	608,200	165,900	774,100
Industrial	89,588	33,706	123,294	142,576	35,305	177,881	119,457	36,366	155,823
2. Factories, plants, workshops, food canneries	76,016	27,693	103,709	98,474	29,493	127,967	101,960	29,930	131,890
3. Mine and mine mill buildings	11,250	2,094	13,344	39,378	2,307	41,685	11,188	2,327	13,515
4. Railway stations, offices, roadway buildings	1,701	2,183	3,884	1,809	2,193	4,002	3,086	2,589	5,675
5. Railway shops, engine houses, water and fuel stations	621	1,736	2,357	2,915	1,312	4,227	3,223	1,520	4,743
Commercial	178,782	29,216	207,998	182,880	34,845	217,725	287,132	34,630	321,762
6. Warehouses, storehouses, refrigerated storage, etc.	16,057	2,924	18,981	15,438	4,122	19,560	16,262	3,876	20,138
7. Grain elevators	6,191	935	7,126	3,018	1,097	4,115	1,525	1,394	2,919
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	15,717	3,718	19,435	23,460	3,541	27,001	30,536	3,630	34,166
9. Office buildings	81,365	11,203	92,568	81,180	15,263	96,443	127,933	15,278	143,209
10. Stores, retail and wholesale	36,764	6,731	43,495	41,921	6,680	48,601	52,113	6,926	59,039
11. Garages and service stations	5,555	2,259	7,814	9,604	2,751	12,355	8,290	2,180	10,470
12. Theatres, arenas, amusement and recreational buildings	16,895	1,183	18,078	7,690	1,009	8,699	50,229	1,066	51,295
13. Laundries and dry cleaning establishments	238	263	501	569	382	951	244	282	526
Institutional	202,663	22,726	225,389	206,077	16,410	222,487	266,398	18,881	285,279
14. Schools and other educational buildings	138,437	7,972	146,409	142,644	6,597	149,241	188,290	7,984	196,274
15. Churches and other religious buildings	11,904	2,799	14,703	7,947	2,772	10,719	9,365	3,532	12,897
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	36,758	7,626	44,384	40,632	5,800	46,432	49,830	6,129	55,959
17. Other institutional buildings	15,564	4,329	19,893	14,854	1,241	16,095	18,913	1,236	20,149
Other building construction	44,562	15,927	60,489	49,126	15,970	65,096	59,354	15,852	75,206
18. Farm buildings (excluding dwellings)	27,541	8,739	36,280	27,023	8,556	35,579	26,974	8,504	35,478
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	9,853	1,953	11,806	8,907	687	9,594	11,041	742	11,783
20. Aeroplane hangars	692	353	1,045	153	334	487	196	355	551
21. Passenger terminals, bus, boat or air	469	164	633	159	706	865	11,069	329	11,398
22. Armouries, barracks, drill halls, etc.	244	3,112	3,356	387	3,043	3,430	495	3,237	3,732
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	2,666	1,007	3,673	3,192	1,168	4,360	3,752	1,125	4,877
24. Other building construction	3,097	599	3,696	9,305	1,476	10,781	5,827	1,560	7,387
Total engineering construction	571,641	126,109	697,750	812,039	136,717	948,756	1,019,921	146,283	1,166,204
Marine construction	12,368	4,266	16,634	10,448	3,225	13,673	13,470	3,510	16,980
25. Docks, wharves, piers, breakwaters	6,612	1,982	8,594	9,352	1,853	11,205	10,787	1,925	12,712
26. Retaining walls, embankments, ripraping	2,420	834	3,254	726	28	754	1,217	95	1,312
27. Canals and waterways	162	232	394	144	401	545	597	487	1,084
28. Dredging and pile driving	452	716	1,168	64	805	869	106	764	870
29. Dyke construction	1,892	137	2,029	—	—	—	1	50	51
30. Logging booms	77	157	234	54	116	170	720	165	885
31. Other marine construction	753	208	961	108	22	130	42	24	66

See footnotes at end of table.

TABLE 22. Quebec^{1,2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	153,349	43,112	196,461	279,061	52,540	331,601	358,165	54,829	412,994
32. Hard surfaced or paved streets, highways, parking lots, etc.	61,195	14,308	75,503	256,510	45,294	301,804	337,018	47,391	384,409
33. Gravel or stone streets, highways, roads, parking lots, etc....	76,936	18,007	94,943	9,538	3,127	12,665	8,319	3,236	11,555
34. Dirt, clay or other streets, roads, parking lots, etc.....	5,583	1,672	7,255	4,216	2,082	6,298	3,655	2,137	5,792
35. Grading, scraping, oiling, filling.....	1,751	7,016	8,767	751	59	810	308	62	370
36. Sidewalks, paths.....	6,802	1,673	8,475	6,875	1,609	8,484	7,371	1,611	8,982
37. Aerodromes, landing fields, runways, tarmac	1,082	436	1,518	1,171	369	1,540	1,494	392	1,886
Waterworks and sewage systems	40,196	10,700	50,896	45,739	10,365	56,104	64,910	11,940	76,850
38. Tile drains, drainage ditches, storm sewers	4,744	1,417	6,161	5,577	982	6,559	5,342	983	6,325
39. Water mains, hydrants and services	17,249	7,122	24,371	19,890	7,057	26,947	33,925	6,876	40,801
40. Sewage systems and connections	14,927	1,429	16,356	14,840	1,338	16,178	17,692	1,292	18,984
41. Pumping stations, water	2,032	538	2,570	4,424	333	4,757	7,022	448	7,470
42. Water storage tanks	1,244	194	1,438	1,008	655	1,663	929	2,341	3,270
Dams and irrigation.....	8,978	1,343	10,321	47,822	1,283	49,105	48,513	1,285	49,798
43. Dams and reservoirs	5,589	281	5,870	42,173	241	42,414	43,207	246	43,453
44. Irrigation and land reclamation projects	3,389	1,062	4,451	5,649	1,042	6,691	5,306	1,039	6,345
Electric power construction	191,984	11,964	203,948	264,582	9,057	273,639	297,263	9,830	307,093
45. Electric power generating plants, including water conveying and controlling structures.....	128,484	4,156	132,640	113,975	3,623	117,598	143,173	3,948	147,121
46. Electric transformer stations	18,667	2,699	21,366	67,069	1,046	68,115	71,353	1,271	72,624
47. Power transmission and distribution lines, trolley wires.....	41,581	4,127	45,708	82,321	3,693	86,014	80,657	3,888	84,545
48. Street lighting	3,252	982	4,234	1,217	695	1,912	2,080	723	2,803
Railway, telephone and telegraph	48,150	29,798	77,948	55,875	31,635	87,510	70,289	36,260	106,549
49. Railway tracks and roadbed	17,560	17,080	34,640	14,577	19,820	34,397	20,766	23,530	44,296
50. Signals and interlockers	1,052	1,786	2,838	2,488	1,563	4,051	2,869	1,860	4,729
51. Telegraph and telephone lines, underground and marine cables	29,538	10,932	40,470	38,810	10,252	49,062	46,654	10,870	57,524
Gas and oil facilities	22,334	10,365	32,699	15,335	11,147	26,482	28,846	10,161	39,007
52. Gas mains and services.....	8,644	956	9,600	5,361	961	6,322	5,442	876	6,318
53. Pumping stations, oil	13	2	15	—	8	8	—	11	11
54. Pumping stations, gas	158	3	161	111	—	111	161	—	161
55. Oil storage tanks	2,497	468	2,965	3,614	576	4,190	1,278	645	1,823
58. Gas storage tanks	116	22	138	557	41	598	—	32	32
57. Oil pipe lines	171	84	255	196	116	312	7,609	202	7,811
58. Gas pipe lines	242	21	263	147	27	174	141	22	163
59. Oil wells	50	—	50	—	—	—	—	—	—
60. Gas wells	50	—	50	—	—	—	—	—	—
61. Oil refinery — Processing units ³	10,393	8,809	19,202	5,349	9,418	14,767	14,215	8,373	22,588
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	94,282	14,561	108,843	93,177	17,465	110,642	138,465	18,468	156,833
63. Bridges, trestles, culverts, overpasses, viaducts	51,685	4,972	56,657	26,999	5,682	32,681	59,643	6,432	66,075
64. Tunnels and subways	7,965	47	8,012	27,045	71	27,116	34,518	149	34,667
65. Incinerators	228	86	314	—	1	1	—	1	1
66. Park systems, landscaping, sodding, etc.	5,455	3,758	9,213	888	350	1,038	2,342	374	2,716
67. Swimming pools, tennis courts, outdoor recreation facilities ..	1,752	1,408	3,160	46	30	76	182	32	224
68. Mine shafts and other below surface workings	7,577	635	8,212	7,067	697	7,764	6,462	716	7,178
69. Fences, snowsheds, signs, guard rails	5,586	2,807	8,393	4,995	1,812	6,807	5,217	1,871	7,088
70. Other engineering construction	14,034	848	14,882	26,337	8,822	35,159	30,091	8,893	38,984

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, table 3.

³ Item 61 "Oil refinery — Processing units" includes related structures employed in production of petrochemicals.

TABLE 23. Ontario^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	2,088,431	531,751	2,620,182	2,227,405	588,655	2,816,060	2,621,639	627,470	3,249,129
Total building construction	1,394,885	341,977	1,736,862	1,532,282	372,341	1,904,623	1,841,503	392,550	2,234,053
Residential	599,000	192,600	791,600	774,300	220,400	994,700	857,300	233,800	1,091,100
Industrial	165,126	61,658	226,784	192,752	62,928	255,680	236,588	67,137	303,725
2. Factories, plants, workshops, food canneries	143,795	49,725	193,520	181,054	49,703	230,757	218,015	51,906	269,921
3. Mine and mine mill buildings	13,435	6,327	19,762	6,683	6,659	13,342	15,381	7,157	22,538
4. Railway stations, offices, roadway buildings	5,045	3,910	8,955	3,665	4,544	8,209	2,334	5,449	7,783
5. Railway shops, engine houses, water and fuel stations	2,851	1,696	4,547	1,350	2,022	3,372	858	2,625	3,483
Commercial	222,546	40,443	262,989	258,569	42,147	300,716	339,804	43,421	383,225
6. Warehouses, storehouses, refrigerated storage, etc.	18,821	4,289	23,110	24,533	4,132	28,665	16,792	4,271	21,063
7. Grain elevators	2,951	662	3,613	520	942	1,462	594	627	1,221
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	14,586	4,100	18,686	12,771	4,043	16,814	28,044	3,987	32,031
9. Office buildings	103,317	15,343	118,660	137,127	15,771	152,898	180,965	17,254	198,219
10. Stores, retail and wholesale	57,585	9,271	66,856	55,611	10,287	65,898	66,453	10,759	77,212
11. Garages and service stations	10,726	5,003	15,729	10,240	4,183	14,423	17,044	4,251	21,295
12. Theatres, arenas, amusement and recreational buildings	13,755	1,376	15,131	17,342	2,461	19,803	29,030	1,995	31,025
13. Laundries and dry cleaning establishments	805	399	1,204	425	328	753	882	277	1,159
Institutional	331,027	19,427	350,454	232,966	18,651	251,617	320,757	19,328	340,085
14. Schools and other educational buildings	249,300	7,907	257,207	144,997	8,012	153,009	191,330	8,148	199,478
15. Churches and other religious buildings	12,711	2,275	14,986	14,287	2,120	16,407	19,000	3,061	22,061
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	65,735	7,863	73,598	61,905	7,528	69,433	80,708	7,185	87,893
17. Other institutional buildings	3,281	1,382	4,663	11,777	991	12,768	29,719	934	30,653
Other building construction	77,186	27,849	105,035	73,695	28,215	101,910	87,054	28,864	115,918
18. Farm buildings (excluding dwellings)	35,206	18,976	54,182	35,733	19,304	55,037	35,599	19,429	55,028
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	12,623	1,506	14,129	10,006	1,567	11,573	10,032	1,687	11,719
20. Aeroplane hangars	143	926	1,069	218	926	1,144	180	978	1,158
21. Passenger terminals, bus, boat or air	17,670	39	17,709	17,154	98	17,252	18,687	135	18,822
22. Armouries, barracks, drill halls, etc.	817	4,529	5,346	784	4,505	5,289	865	4,781	5,646
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,154	482	1,636	813	444	1,257	4,706	453	5,159
24. Other building construction	9,573	1,391	10,964	8,987	1,371	10,358	16,985	1,401	18,386
Total engineering construction	693,546	189,774	883,320	695,123	216,314	911,437	780,156	234,920	1,015,076
Marine construction	8,696	2,717	11,413	6,957	3,534	10,491	22,218	4,407	26,625
25. Docks, wharves, piers, breakwaters	5,005	1,245	6,250	3,638	1,243	4,881	5,329	1,202	6,531
26. Retaining walls, embankments, ripraping	1,303	100	1,403	106	111	217	181	93	274
27. Canals and waterways	2,039	454	2,493	2,880	885	3,765	15,825	1,788	17,613
28. Dredging and pile driving	289	483	772	234	674	908	522	632	1,154
29. Dyke construction	5	—	5	10	14	24	9	5	14
30. Logging booms	4	88	92	23	91	114	—	101	101
31. Other marine construction	51	347	398	66	516	582	352	586	938

See footnotes at end of table.

TABLE 23. Ontario^{1,2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Road, highway and aerodrome construction	197,692	55,868	253,560	198,287	73,127	271,414	220,794	76,353	297,147
32. Hard surfaced or paved streets, highways, parking lots, etc.,	162,647	43,568	206,215	169,118	54,377	223,495	187,876	56,000	243,876
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	22,113	3,389	25,502	15,837	14,529	30,366	18,322	15,987	34,309
34. Dirt, clay or other streets, roads, parking lots, etc.	2,137	1,571	3,708	2,089	1,546	3,635	2,274	1,585	3,859
35. Grading, scraping, oiling, filling	213	4,977	5,190	425	461	886	247	555	802
36. Sidewalks, paths	4,333	2,053	6,386	4,823	1,894	6,717	5,402	1,887	7,289
37. Aerodromes, landing fields, runways, tarmac	6,249	310	8,559	5,995	320	6,315	6,673	339	7,012
Waterworks and sewage systems	94,486	18,957	111,443	101,163	15,280	116,443	109,439	18,008	125,447
38. Tile drains, drainage ditches, storm sewers	5,621	3,065	8,686	5,477	2,269	7,746	5,870	2,291	7,961
39. Water mains, hydrants and services	19,368	7,723	27,091	24,856	7,091	31,947	33,684	7,508	41,192
40. Sewage systems and connections	64,163	4,878	89,041	63,821	4,797	68,618	58,462	5,015	63,477
41. Pumping stations, water	4,363	918	5,279	6,381	758	7,139	10,701	819	11,520
42. Water storage tanks	971	375	1,346	628	365	993	922	375	1,297
Dams and irrigation	8,866	2,663	11,329	8,787	2,616	11,403	8,893	2,638	11,531
43. Dams and reservoirs	4,362	354	4,716	4,475	242	4,717	4,553	249	4,802
44. Irrigation and land reclamation projects	4,304	2,309	6,613	4,312	2,374	6,686	4,340	2,389	6,729
Electric power construction	86,213	28,648	114,861	99,983	34,797	134,780	133,445	36,798	170,243
45. Electric power generating plants, including water conveying and controlling structures	22,057	4,895	26,952	37,174	5,576	42,750	61,735	6,025	67,760
46. Electric transformer stations	6,964	2,195	9,159	7,885	2,842	10,727	8,780	3,137	11,917
47. Power transmission and distribution lines, trolley wires	52,713	17,727	70,440	50,284	23,031	73,315	58,204	24,234	82,438
48. Street lighting	4,479	3,831	8,310	4,640	3,348	7,988	4,726	3,402	8,128
Railway, telephone and telegraph	91,053	50,377	141,430	79,388	53,934	133,322	72,097	62,728	134,825
49. Railway tracks and roadbed	36,955	32,257	69,212	34,139	32,854	66,993	26,294	39,912	66,206
50. Signals and interlockers	5,092	2,860	7,952	2,722	2,840	5,562	1,964	3,225	5,189
51. Telegraph and telephone lines, underground and marine cable	49,006	15,260	64,266	42,527	18,240	60,767	43,839	19,591	63,430
Gas and oil facilities	83,977	18,553	100,532	72,971	15,073	88,044	73,814	15,543	89,357
52. Gas mains and services	35,973	2,759	38,732	25,489	1,992	27,481	24,587	2,190	26,777
53. Pumping stations, oil	896	170	1,066	1,078	238	1,316	385	200	585
54. Pumping stations, gas	20,298	273	20,571	26,679	363	27,042	9,592	351	9,943
55. Oil storage tanks	2,807	811	3,618	1,161	571	1,732	1,672	612	2,284
56. Gas storage tanks	30	—	30	70	22	92	320	—	320
57. Oil pipe lines	2,811	646	3,457	144	524	688	82	545	627
58. Gas pipe lines	1,709	214	1,923	10,091	320	10,411	6,853	331	7,184
59. Oil wells	863	225	1,088	714	268	982	822	276	1,098
60. Gas wells	1,608	306	1,914	560	243	803	549	137	686
61. Oil refinery—Processing units ¹	16,982	11,151	28,133	6,868	10,532	17,400	28,952	10,901	39,853
62. Natural gas cleaning plants	—	—	—	117	—	117	—	—	—
Other engineering construction	122,763	15,989	138,752	127,587	17,953	145,540	139,458	20,445	159,901
63. Bridges, tresties, culverts, overpasses, viaducts	80,317	5,581	85,898	66,699	9,794	76,493	68,175	11,745	79,920
64. Tunnels and subways	22,623	20	22,643	40,856	120	40,976	40,370	171	40,541
65. Incinerators	44	3	47	4	6	10	26	4	30
66. Park systems, landscaping, sodding, etc.	1,455	1,883	3,338	809	1,074	1,883	1,456	1,224	2,680
67. Swimming pools, tennis courts, outdoor recreation facilities ..	165	515	680	2,767	164	2,931	2,106	186	2,292
68. Mine shafts and other below surface working	8,850	835	9,685	5,185	721	5,906	12,790	730	13,520
69. Fences, snowsheds, signs, guard rails	6,880	5,063	11,943	6,274	3,764	10,038	5,973	3,977	9,950
70. Other engineering construction	2,429	2,089	4,518	4,993	2,310	7,303	8,560	2,408	10,968

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery-Processing units" includes related structures employed in production of petrochemicals.

TABLE 24. Manitoba^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	321,154	81,768	402,922	353,552	88,135	441,687	356,336	96,539	452,875
Total building construction	155,170	47,129	202,299	185,150	51,732	236,882	206,978	54,471	261,449
Residential	70,200	20,100	90,300	89,600	25,400	115,000	98,700	26,900	125,600
Industrial	11,926	7,263	19,189	17,122	6,232	23,354	17,045	6,703	23,748
2. Factories, plants, workshops, food canneries	8,658	4,153	12,811	13,970	3,451	17,421	15,389	3,518	18,907
3. Mine and mine mill buildings	212	284	496	1,307	189	1,496	526	191	717
4. Railway stations, offices, roadway buildings	2,636	1,690	4,326	1,312	1,597	2,909	823	1,949	2,772
5. Railway shops, engine houses, water and fuel stations	420	1,136	1,556	533	995	1,528	307	1,045	1,352
Commercial	30,067	7,037	37,104	29,793	8,422	38,215	37,543	8,983	46,526
6. Warehouses, storehouses, refrigerated storage, etc.	1,253	810	2,063	2,183	1,290	3,473	3,289	1,346	4,635
7. Grain elevators	856	670	1,526	1,139	821	1,960	1,595	752	2,347
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,881	674	3,555	2,777	746	3,523	7,703	1,046	8,749
9. Office buildings	11,862	1,851	13,713	14,078	1,884	15,962	13,135	2,003	15,138
10. Stores, retail and wholesale	9,063	2,050	11,113	5,609	1,892	7,501	8,143	2,209	10,352
11. Garages and service stations	1,136	541	1,677	1,920	1,151	3,071	1,396	1,169	2,565
12. Theatres, arenas, amusement and recreational buildings	2,972	383	3,355	2,087	584	2,671	2,189	388	2,577
13. Laundries and dry cleaning establishments	44	58	102	—	54	54	93	70	163
Institutional	26,241	7,735	33,976	32,735	6,547	39,282	38,092	6,705	44,797
14. Schools and other educational buildings	18,999	6,105	25,104	20,091	4,865	24,956	19,614	4,800	24,414
15. Churches and other religious buildings	2,849	189	3,038	969	525	1,494	1,407	677	2,084
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	2,402	1,226	3,628	9,624	952	10,576	12,321	1,057	13,378
17. Other institutional buildings	1,991	215	2,206	2,051	205	2,256	4,750	171	4,921
Other building construction	16,736	4,994	21,730	15,900	5,131	21,031	15,598	5,180	20,778
18. Farm buildings (excluding dwellings)	9,962	3,281	13,243	10,874	3,581	14,455	10,642	3,499	14,141
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	4,210	327	4,537	2,495	333	2,828	1,807	364	1,971
20. Aeroplane hangars	53	245	298	57	238	295	67	248	315
21. Passenger terminals, bus, boat or air	1,298	1	1,299	1,260	10	1,270	1,437	10	1,447
22. Armouries, barracks, drill halls, etc.	466	641	1,107	453	636	1,089	515	678	1,193
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	197	210	407	72	82	154	441	85	526
24. Other building construction	550	289	839	689	251	940	889	296	1,185
Total engineering construction	165,984	34,639	200,623	168,402	36,403	204,805	149,358	42,068	191,426
Marine construction	479	376	855	15,609	424	16,033	17,900	498	18,398
25. Docks, wharves, piers, breakwaters	116	120	238	290	165	455	235	209	444
26. Retaining walls, embankments, ripraping	20	5	25	15,005	—	15,005	17,505	—	17,505
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	340	251	591	304	259	563	—	269	289
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	—	—	—	—	—	—	35	—	35
31. Other marine construction	1	—	1	10	—	10	125	—	125

See footnotes at end of table.

TABLE 24. Manitoba^{1,2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousand of dollars								
Road, highway and aerodrome construction	33,058	6,213	39,271	40,365	5,955	46,320	41,974	8,184	50,158
32. Hard surfaced or paved streets, highways, parking lots, etc..	17,213	3,889	21,102	22,466	3,379	25,845	21,303	4,239	25,542
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	4,673	1,037	5,710	5,571	1,183	6,754	7,165	1,866	9,031
34. Dirt, clay or other streets, roads, parking lots, etc.	188	88	276	201	99	300	217	101	318
35. Grading, scraping, oiling, filling.....	8,215	925	9,140	9,403	1,024	10,427	10,300	1,698	11,998
36. Sidewalks, paths	858	192	850	671	190	861	654	194	848
37. Aerodromes, landing fields, runways, tarmac	2,111	82	2,193	2,053	80	2,133	2,335	86	2,421
Waterworks and sewage systems	19,996	2,533	22,529	21,605	2,941	24,546	22,530	2,928	25,458
38. Tile drains, drainage ditches, storm sewers	1,751	414	2,165	2,757	699	3,456	3,302	583	3,885
39. Water mains, hydrants and services	6,042	1,574	7,616	3,588	1,558	5,144	5,254	1,616	6,870
40. Sewage systems and connections	8,232	437	8,669	14,149	569	14,718	13,026	596	13,822
41. Pumping stations, water	848	53	901	624	60	684	631	71	702
42. Water storage tanks	3,123	55	3,178	487	57	544	317	62	379
Dams and irrigation	1,879	459	2,338	2,088	474	2,562	2,546	491	3,037
43. Dams and reservoirs	661	50	711	745	34	779	1,188	61	1,249
44. Irrigation and land reclamation projects.....	1,218	409	1,627	1,343	440	1,783	1,358	430	1,788
Electric power construction	48,074	2,028	50,102	28,002	1,803	29,805	18,753	1,597	20,350
45. Electric power generating plants, including water conveying and controlling structures.....	26,976	396	27,372	9,925	374	10,299	4,098	431	4,529
46. Electric transformer stations	1,225	712	1,937	2,007	92	2,099	921	60	981
47. Power transmission and distribution lines, trolley wires	18,712	446	19,158	14,477	1,190	15,667	12,038	980	13,018
48. Street lighting	1,161	474	1,635	1,593	147	1,740	1,696	126	1,822
Railway, telephone and telegraph	21,622	16,537	38,159	20,414	17,546	37,960	17,036	20,540	37,576
49. Railway tracks and roadbed	12,896	11,708	24,604	11,645	12,212	23,857	7,424	14,669	22,093
50. Signals and interlockers	1,464	695	2,159	1,037	929	1,966	666	1,121	1,787
51. Telegraph and telephone lines, underground and marine cables	7,262	4,134	11,396	7,732	4,405	12,137	6,946	4,750	13,696
Gas and oil facilities	25,888	2,293	28,181	22,235	2,223	24,458	10,657	2,049	12,706
52. Gas mains and services	3,759	506	4,265	5,720	—	5,720	2,978	—	2,978
53. Pumping stations, oil	1,391	203	1,594	341	332	673	705	370	1,075
54. Pumping stations, gas	2,609	—	2,809	1,780	—	1,780	2,735	—	2,735
55. Oil storage tanks	729	74	803	551	102	653	355	158	513
56. Gas storage tanks	1,192	3	1,195	16	—	18	359	—	359
57. Oil pipe lines	3,033	126	3,159	5,971	84	6,055	50	90	140
58. Gas pipe lines	10,980	8	10,988	6,305	—	6,305	1,141	—	1,141
59. Oil wells	994	277	1,271	1,352	292	1,644	1,067	303	1,370
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery — Processing units ³	1,201	1,096	2,297	197	1,413	1,610	1,267	1,128	2,395
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	14,988	4,200	19,188	18,084	5,037	23,121	17,962	5,781	23,743
63. Bridges, trestles, culverts, overpasses, viaducts	6,239	1,805	8,044	6,800	1,843	8,643	5,597	2,448	8,045
64. Tunnels and subways	—	—	—	17	—	17	9	—	9
65. Incinerators	1	5	6	1	5	6	1	5	6
66. Park systems, landscaping, sodding, etc.	331	192	523	451	178	629	638	207	845
67. Swimming pools, tennis courts, outdoor recreation facilities ..	12	27	39	457	31	488	131	29	160
68. Mine shafts and other below surface workings	5,750	544	6,294	6,454	706	7,160	7,535	725	8,260
69. Fences, snowsheds, signs, guard rails	2,232	829	3,061	3,135	934	4,069	3,167	1,013	4,160
70. Other engineering construction	423	798	1,221	769	1,340	2,109	884	1,354	2,238

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery — Processing units" includes related structures employed in production of petrochemicals.

TABLE 25. Saskatchewan^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	352,600	92,021	444,621	374,723	92,282	467,005	403,330	95,718	499,048
Total building construction	179,033	48,126	227,159	194,036	47,834	241,870	215,482	49,594	265,076
Residential	73,100	25,600	98,700	88,400	24,800	113,200	96,500	26,300	122,800
Industrial	14,475	4,160	18,635	16,414	3,838	20,252	19,925	4,240	24,165
2. Factories, plants, workshops, food canneries	5,647	1,871	7,518	4,231	1,589	5,820	6,399	1,556	7,955
3. Mine and mine mill buildings	7,241	708	7,949	10,841	355	11,196	12,605	404	13,009
4. Railway stations, offices, roadway buildings	1,251	1,231	2,482	969	1,321	2,290	671	1,598	2,269
5. Railway shops, engine houses, water and fuel stations	336	350	686	373	573	946	250	682	932
Commercial	27,999	6,228	34,227	29,073	6,301	35,374	35,974	6,611	42,585
6. Warehouses, storehouses, refrigerated storage, etc.	1,063	481	1,544	1,213	456	1,669	2,323	570	2,893
7. Grain elevators	3,468	2,190	5,658	4,643	2,334	6,977	3,735	2,205	5,940
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,984	639	3,623	2,709	440	3,149	7,517	637	8,154
9. Office buildings	12,370	1,216	13,586	10,590	1,108	11,698	9,582	1,311	10,893
10. Stores, retail and wholesale	5,483	1,164	6,647	5,422	1,224	6,646	7,596	1,195	8,791
11. Garages and service stations	1,133	330	1,463	1,434	361	1,795	1,657	378	2,035
12. Theatres, arenas, amusement and recreational buildings	1,492	160	1,652	3,056	349	3,405	3,564	289	3,853
13. Laundries and dry cleaning establishments	6	48	54	6	29	35	—	26	26
Institutional	39,802	4,701	44,503	36,216	4,209	40,425	39,291	3,964	43,255
14. Schools and other educational buildings	21,426	3,300	24,726	23,130	2,930	26,060	27,043	2,570	29,613
15. Churches and other religious buildings	5,984	292	6,276	4,172	143	4,315	2,834	222	3,056
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	11,604	966	12,570	6,158	902	7,060	4,644	970	5,614
17. Other institutional buildings	788	143	931	2,756	234	2,990	4,770	202	4,972
Other building construction	23,657	7,437	31,094	23,933	8,686	32,619	23,792	8,479	32,271
18. Farm buildings (excluding dwellings)	18,318	6,693	25,011	20,970	7,870	28,840	20,746	7,618	28,364
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	4,331	171	4,502	2,111	193	2,304	2,088	195	2,283
20. Aeroplane hangars	68	54	122	157	55	212	133	60	193
21. Passenger terminals, bus, boat or air	40	12	52	20	21	41	26	12	38
22. Armouries, barracks, drill halls, etc.	229	310	539	190	315	505	246	346	592
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	525	82	607	189	95	284	66	98	164
24. Other building construction	146	115	261	296	137	433	487	150	637
Total engineering construction	173,567	43,895	217,462	180,687	44,448	225,135	187,848	46,124	233,972
Marine construction	150	54	204	274	86	360	275	107	382
25. Docks, wharves, piers, breakwaters	150	51	201	194	84	278	225	106	331
26. Retaining walls, embankments, ripraping	—	—	—	—	—	—	—	—	—
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	—	—	—	—	—	—	—	—	—
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	—	3	3	80	2	82	50	1	51

See footnotes at end of table.

TABLE 25. Saskatchewan^{1,2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	31,693	12,230	43,923	37,887	11,868	49,755	44,536	11,971	56,507
32. Hard surfaced or paved streets, highways, parking lots, etc..	23,575	7,544	31,119	22,872	8,326	31,198	28,950	8,422	37,372
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	2,584	4,364	6,948	8,482	2,905	11,387	8,617	2,820	11,437
34. Dirt, clay or other streets, roads, parking lots, etc.	143	95	238	1,490	385	1,875	1,192	433	1,625
35. Grading, scraping, oiling, filling	68	62	130	50	63	113	70	69	139
36. Sidewalks, paths	2,297	136	2,433	2,462	154	2,616	2,412	189	2,601
37. Aerodromes, landing fields, runways, tarmac	3,026	29	3,055	2,531	35	2,566	3,295	38	3,333
Waterworks and sewage systems	10,924	3,026	13,950	12,289	3,529	15,818	11,793	3,593	15,386
38. Tile drains, drainage ditches, storm sewers	1,811	726	2,537	2,670	875	3,545	2,492	834	3,326
39. Water mains, hydrants and services	3,516	1,466	5,004	3,832	1,823	5,655	5,208	1,879	7,067
40. Sewage systems and connections	5,035	595	5,630	4,585	654	5,239	3,803	704	4,307
41. Pumping stations, water	294	115	409	716	49	765	195	58	253
42. Water storage tanks	266	104	370	486	128	614	295	118	413
Dams and irrigation	20,211	2,070	22,281	22,150	2,366	24,516	27,691	2,424	30,115
43. Dams and reservoirs	18,166	1,110	19,278	15,778	1,226	17,004	20,575	1,271	21,846
44. Irrigation and land reclamation projects	2,043	960	3,003	6,372	1,140	7,512	7,116	1,153	6,269
Electric power construction	25,219	3,313	28,532	20,478	2,182	22,660	15,492	1,606	17,098
45. Electric power generating plants, including water conveying and controlling structures	8,218	1,030	9,248	2,647	290	2,937	3,626	322	3,948
46. Electric transformer stations	3,042	59	3,101	1,325	337	1,662	1,252	242	1,494
47. Power transmission and distribution lines, trolley wires	13,386	2,020	15,406	15,531	1,282	16,813	9,897	932	10,829
48. Street lighting	573	204	777	975	273	1,248	717	110	827
Railway, telephone and telegraph	15,092	12,954	28,046	13,993	12,722	26,715	12,266	15,175	27,441
49. Railway tracks and roadbed	10,217	10,907	21,124	8,025	10,117	18,142	5,901	12,264	18,165
50. Signals and interlockers	691	581	1,272	625	784	1,409	513	948	1,461
51. Telegraph and telephone lines, underground and marine cables	4,184	1,466	5,650	5,343	1,821	7,164	5,852	1,963	7,815
Gas and oil facilities	59,355	5,786	63,141	53,315	7,227	60,542	43,310	6,340	49,630
52. Gas mains and services	4,499	689	5,188	2,712	50	2,762	2,797	50	2,847
53. Pumping stations, oil	182	399	581	172	312	484	621	342	963
54. Pumping stations, gas	4,865	325	5,190	2,200	58	2,258	1,348	18	1,366
55. Oil storage tanks	435	164	599	660	170	830	775	227	1,002
56. Gas storage tanks	—	—	—	953	5	958	550	5	555
57. Oil pipe lines	1,462	304	1,766	1,184	290	1,474	6,310	301	6,611
58. Gas pipe lines	17,700	43	17,743	17,982	22	18,004	5,214	17	5,231
59. Oil wells	29,128	2,279	31,407	26,252	4,638	30,890	24,329	3,779	28,108
60. Gas wells	358	20	378	326	80	406	449	77	526
61. Oil refinery — Processing units ³	586	1,563	2,149	597	1,540	2,137	883	1,465	2,348
62. Natural gas cleaning plants	140	—	140	277	62	339	34	59	93
Other engineering construction	10,923	4,462	15,385	20,301	4,468	24,769	32,485	4,908	37,393
63. Bridges, tresties, culverts, overpasses, viaducts	1,849	992	2,841	2,892	1,031	3,923	6,795	1,248	8,043
64. Tunnels and subways	—	—	—	4	—	4	6	—	6
65. Incinerators	—	—	—	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	158	104	262	471	90	561	600	101	701
67. Swimming pools, tennis courts, outdoor recreation facilities	—	40	40	860	400	1,260	943	505	1,448
68. Mine shafts and other below surface workings	3,100	1,308	4,408	11,720	333	12,053	18,850	385	19,235
69. Fences, snowsheds, signs, guard rails	3,338	1,565	4,903	3,700	1,836	5,536	3,669	1,903	5,572
70. Other engineering construction	2,478	453	2,931	654	778	1,432	1,622	766	2,388

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery — Processing units" includes related structures employed in production of petrochemicals.

TABLE 26. Alberta^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	689,950	171,845	861,795	759,178	159,529	918,707	821,027	180,963	981,990
Total building construction	334,427	94,365	428,792	348,094	85,811	433,705	390,897	90,579	481,278
Residential	162,500	59,300	221,800	168,900	47,300	214,200	184,000	50,200	234,200
Industrial	15,896	5,564	21,460	17,141	5,479	22,620	18,790	5,978	22,768
2. Factories, plants, workshops, food canneries	14,182	4,038	18,220	15,353	3,535	18,888	15,778	3,705	19,483
3. Mine and mine mill buildings	254	27	281	262	40	302	76	37	113
4. Railway stations, offices, roadway buildings	1,174	1,109	2,283	1,085	1,306	2,391	722	1,542	2,264
5. Railway shops, engine houses, water and fuel stations	286	390	676	441	598	1,039	214	694	908
Commercial	60,468	12,950	73,418	55,178	14,845	70,023	71,651	15,468	87,119
6. Warehouses, storehouses, refrigerated storage, etc.	7,250	1,050	8,300	9,091	1,807	10,898	10,212	2,099	12,311
7. Grain elevators	1,766	1,237	3,003	993	1,049	2,042	647	631	1,278
6. Hotels, clubs, restaurants, cafeterias, tourist cabins	8,501	1,251	9,752	8,810	1,569	10,379	8,920	1,885	10,805
9. Office buildings	19,473	5,602	25,075	15,679	6,868	22,547	27,443	7,433	34,876
10. Stores, retail and wholesale	9,706	2,212	11,918	13,858	2,293	16,149	14,257	2,118	16,375
11. Garages and service stations	6,024	782	6,806	2,648	874	3,522	5,260	916	6,176
12. Theatres, arenas, amusement and recreational buildings	7,732	756	8,488	3,926	318	4,244	4,898	322	5,220
13. Laundries and dry cleaning establishments	16	60	76	175	67	242	14	64	78
Institutional	62,887	6,834	69,721	75,714	8,218	83,932	86,066	9,013	95,079
14. Schools and other educational buildings	44,951	3,591	48,542	45,767	4,259	50,026	60,241	4,542	64,783
15. Churches and other religious buildings	1,502	172	1,674	1,516	176	1,892	1,198	554	1,752
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	13,435	2,166	15,601	22,236	2,447	24,683	18,594	2,583	21,177
17. Other institutional buildings	2,999	905	3,904	6,195	1,336	7,531	6,033	1,334	7,367
Other building construction	32,676	9,717	42,393	33,161	8,769	42,930	32,190	9,920	42,110
18. Farm buildings (excluding dwellings)	25,770	6,938	32,708	27,290	7,321	34,611	26,950	7,256	34,206
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	4,385	630	5,015	3,848	461	4,309	2,081	581	2,662
20. Aeroplane hangars	30	266	296	27	266	293	27	288	315
21. Passenger terminals, bus, boat or air	38	50	88	44	31	75	—	31	31
22. Armouries, barracks, drill halls, etc.	187	1,194	1,381	174	1,183	1,357	176	1,280	1,456
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	369	192	561	326	189	515	314	204	518
24. Other building construction	1,897	447	2,344	1,452	318	1,770	2,642	280	2,922
Total engineering construction	355,523	77,480	433,003	411,084	73,918	485,002	430,330	70,384	500,714
Marine construction	109	369	478	1,918	398	2,318	757	440	1,197
25. Docks, wharves, piers, breakwaters	92	55	147	1,274	82	1,356	122	98	220
26. Retaining walls, embankments, ripraping	14	16	30	641	16	657	632	17	649
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	3	292	295	—	294	294	—	318	318
29. Dyke construction	—	6	6	3	6	9	3	7	10
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

TABLE 26. Alberta^{1,2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	62,330	29,536	91,866	68,558	21,287	89,845	63,182	14,653	77,835
32. Hard surfaced or paved streets, highways, parking lots, etc.	41,811	21,023	62,834	39,582	9,590	49,172	37,554	9,721	47,275
33. Gravel or stone streets, highways, roads, parking lots, etc.	7,610	7,423	15,033	12,473	10,105	22,578	11,745	2,989	14,734
34. Dirt, clay or other streets, roads, parking lots, etc.	1,420	455	1,875	756	419	1,175	690	445	1,135
35. Grading, scraping, oiling, filling	6,924	19	6,943	11,845	658	12,503	9,266	879	10,145
36. Sidewalks, paths	2,788	391	3,179	2,344	289	2,633	2,353	374	2,727
37. Aerodromes, landing fields, runways, tarmac	1,777	225	2,002	1,558	226	1,784	1,574	245	1,819
Waterworks and sewage systems	17,615	4,531	22,146	25,201	4,975	30,178	22,067	4,951	27,018
38. Tile drains, drainage ditches, storm sewers	2,804	764	3,568	3,178	883	4,061	3,491	798	4,289
39. Water mains, hydrants and services	6,876	2,609	9,485	8,523	2,695	11,218	7,913	2,886	10,799
40. Sewage systems and connections	7,252	964	8,216	11,000	1,098	12,098	8,082	957	8,039
41. Pumping stations, water	267	85	352	1,856	169	2,025	2,035	187	2,222
42. Water storage tanks	416	109	525	644	130	774	546	123	669
Dams and irrigation	7,519	1,689	9,208	6,418	1,760	8,178	6,204	1,814	8,018
43. Dams and reservoirs	1,988	263	2,251	1,867	260	2,127	2,036	281	2,317
44. Irrigation and land reclamation projects	5,531	1,426	6,957	4,551	1,500	6,051	4,168	1,533	5,701
Electric power construction	20,972	3,340	24,312	26,805	3,011	29,816	24,493	3,271	27,764
45. Electric power generating plants, including water conveying and controlling structures	6,139	463	6,602	11,576	459	12,035	12,189	478	12,667
46. Electric transformer stations	3,235	375	3,610	5,554	345	5,899	2,900	384	3,284
47. Power transmission and distribution lines, trolley wires	8,803	2,100	10,903	7,092	1,830	8,922	6,796	1,963	8,759
48. Street lighting	2,795	402	3,197	2,583	377	2,960	2,608	446	3,054
Railway, telephone and telegraph	22,957	14,618	37,575	27,010	14,802	41,812	24,995	17,082	42,077
49. Railway tracks and roadbed	14,778	11,037	25,815	17,350	10,874	28,224	12,949	12,726	25,675
50. Signals and interlockers	568	688	1,256	920	752	1,672	440	894	1,334
51. Telegraph and telephone lines, underground and marine cables	7,611	2,893	10,504	8,740	3,176	11,916	11,606	3,462	15,068
Gas and oil facilities	208,337	15,789	224,126	237,249	19,950	257,199	227,030	19,982	247,012
52. Gas mains and services	4,664	889	5,553	2,938	878	3,816	2,855	914	3,769
53. Pumping stations, oil	285	299	584	1,605	458	2,063	4,225	511	4,736
54. Pumping stations, gas	434	110	544	336	52	388	195	54	249
55. Oil storage tanks	3,545	631	4,176	6,445	380	6,825	4,299	428	4,727
56. Gas storage tanks	—	—	—	95	—	95	36	—	36
57. Oil pipe lines	12,439	690	13,129	11,735	565	12,300	6,432	574	7,006
58. Gas pipe lines	21,858	384	22,242	26,188	425	26,593	27,448	447	27,895
59. Oil wells	105,378	8,761	112,139	129,927	9,210	139,137	123,945	9,352	133,297
60. Gas wells	18,450	449	18,899	21,867	446	22,313	21,523	518	22,041
61. Oil refinery—Processing units ³	776	2,603	3,379	2,708	3,443	6,151	4,337	3,498	7,835
62. Natural gas cleaning plants	40,508	2,973	43,481	33,425	4,093	37,518	31,735	3,686	35,421
Other engineering construction	15,684	7,608	23,292	17,925	7,735	25,660	61,602	8,191	69,793
63. Bridges, trestles, culverts, overpasses, viaducts	7,790	4,051	11,641	10,497	4,787	15,284	9,594	5,123	14,717
64. Tunnels and subways	211	—	211	28	—	28	8	—	8
65. Incinerators	3	1	4	9	1	10	—	1	1
66. Park systems, landscaping, sodding, etc.	161	527	688	287	437	724	315	523	838
67. Swimming pools, tennis courts, outdoor recreation facilities ..	376	66	442	532	66	598	636	72	708
68. Mine shafts and other below surface workings	226	6	232	209	8	217	50	12	62
69. Fences, snowsheds, signs, guard rails	4,404	1,393	5,797	4,535	1,405	5,940	4,453	1,437	5,890
70. Other engineering construction	2,513	1,564	4,077	1,828	1,031	2,859	46,548	1,023	47,569

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery—Processing units" includes related structures employed in production of petrochemicals.

TABLE 27. British Columbia^{1,2}

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction.....	661,394	166,005	827,399	844,993	180,252	1,025,245	923,597	186,735	1,110,332
Total building construction	380,199	96,685	476,884	447,818	109,547	557,363	536,632	113,227	649,859
Residential	207,700	55,500	263,200	238,500	68,100	306,600	264,800	72,200	337,000
Industrial	40,924	14,570	55,494	74,515	14,831	89,346	76,081	15,184	91,285
2. Factories, plants, workshops, food canneries.....	37,720	11,998	49,718	60,419	12,282	72,701	66,088	12,242	78,330
3. Mine and mine mill buildings	1,431	774	2,205	12,374	348	12,722	8,108	371	8,479
4. Railway stations, offices, roadway buildings.....	1,346	1,330	2,676	1,233	1,539	2,772	1,134	1,802	2,936
5. Railway shops, engine houses, water and fuel stations ..	427	468	895	489	662	1,151	751	769	1,520
Commercial	59,200	12,632	71,832	59,787	14,247	74,034	87,239	13,180	100,399
6. Warehouses, storehouses, refrigerated storage, etc.	9,137	2,027	11,164	6,382	1,869	8,251	12,517	1,897	14,414
7. Grain elevators.....	43	101	144	71	312	383	88	294	382
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	6,723	1,458	8,181	4,158	1,452	5,610	12,277	1,908	14,185
9. Office buildings	14,351	2,631	16,982	24,048	4,318	28,366	27,204	3,403	30,607
10. Stores, retail and wholesale.....	14,372	2,898	17,270	13,642	2,777	16,419	17,766	2,774	20,540
11. Garages and service stations.....	6,296	854	7,150	5,706	758	6,464	6,098	930	7,028
12. Theatres, arenas, amusement and recreational buildings	7,579	2,470	10,049	5,299	2,590	7,689	11,188	1,872	13,060
13. Laundries and dry cleaning establishments.....	699	193	892	481	171	852	101	82	183
Institutional.....	53,877	9,455	63,132	55,431	7,905	63,338	87,826	8,200	95,826
14. Schools and other educational buildings	35,379	2,736	38,115	36,488	4,731	41,219	56,349	4,968	61,317
15. Churches and other religious buildings.....	3,812	472	4,284	3,487	317	3,804	3,757	291	4,048
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	9,869	1,176	11,045	11,246	2,108	13,354	15,524	2,201	17,725
17. Other institutional buildings	4,617	5,071	9,688	4,210	749	4,959	11,996	740	12,736
Other building construction.....	18,898	4,528	23,226	19,583	4,464	24,047	20,886	4,483	25,389
18. Farm buildings (excluding dwellings).....	6,336	1,313	7,649	6,268	1,254	7,522	6,420	1,217	7,637
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	5,023	354	5,377	3,931	207	4,138	2,211	212	2,423
20. Aeroplane hangars	39	174	213	40	269	309	45	296	341
21. Passenger terminals, bus, boat or air.....	1,419	120	1,539	1,581	18	1,599	1,887	18	1,905
22. Armouries, barracks, drill halls, etc.	463	713	1,176	518	726	1,244	619	799	1,418
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps.....	3,355	1,546	4,901	4,646	1,615	6,261	5,923	1,590	7,513
24. Other building construction	2,063	308	2,371	2,599	375	2,974	3,781	351	4,132
Total engineering construction	281,195	69,320	350,515	397,177	70,705	467,882	386,965	73,508	460,473
Marine construction	6,744	3,368	10,112	8,843	4,223	12,866	11,526	4,696	16,222
25. Docks, wharves, piers, breakwaters	4,812	1,767	6,579	6,756	1,763	8,519	9,424	1,880	11,304
26. Retaining walls, embankments, ripraping.....	253	30	283	67	25	92	24	26	50
27. Canals and waterways.....	136	31	167	52	89	141	151	68	219
28. Dredging and pile driving	751	1,184	1,935	570	1,032	1,602	683	1,148	1,831
29. Dyke construction	12	17	29	—	15	15	2	13	15
30. Logging booms	195	137	332	254	186	440	258	410	668
31. Other marine construction.....	585	202	787	944	1,113	2,057	984	1,151	2,135

See footnotes at end of table.

TABLE 27. British Columbia^{1,2} — Concluded

Type of structure	1963			1964			1965		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	96,053	24,652	120,705	98,673	24,402	123,075	99,509	25,124	124,633
32. Hard surfaced or paved streets, highways, parking lots, etc..	27,507	7,240	34,747	29,845	5,864	35,709	31,568	6,112	37,680
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	46,079	11,679	57,758	41,091	13,112	54,203	45,250	13,449	58,699
34. Dirt, clay or other streets, roads, parking lots, etc.	14,334	4,745	19,079	13,198	4,621	17,819	15,757	4,799	20,556
35. Grading, scraping, oiling, filling	4,336	130	4,466	10,618	155	10,773	2,904	97	3,001
36. Sidewalks, paths	1,741	757	2,498	1,572	550	2,122	1,232	556	1,788
37. Aerodromes, landing fields, runways, tarmac	2,056	101	2,157	2,349	100	2,449	2,798	111	2,909
Waterworks and sewage systems	25,508	6,460	31,968	30,714	6,585	37,299	34,091	5,386	39,477
38. Tile drains, drainage ditches, storm sewers	703	209	912	856	298	1,154	804	177	981
39. Water mains, hydrants and services	7,903	2,600	10,503	8,585	2,667	11,252	11,291	2,767	14,058
40. Sewage systems and connections	16,298	3,454	19,752	19,180	3,340	22,520	20,660	2,260	22,920
41. Pumping stations, water	484	116	600	1,745	180	1,925	1,086	115	1,201
42. Water storage tanks	120	81	201	348	100	448	250	67	317
Dams and irrigation	26,369	254	26,623	33,712	282	33,994	40,585	310	40,895
43. Dams and reservoirs	25,666	91	25,757	32,778	93	32,871	39,894	103	39,997
44. Irrigation and land reclamation projects.....	703	163	866	934	189	1,123	691	207	898
Electric power construction	26,793	7,351	34,144	42,206	7,319	49,525	71,960	7,127	79,087
45. Electric power generating plants, including water conveying and controlling structures	3,812	2,177	5,989	5,109	1,796	6,905	4,568	1,901	6,469
46. Electric transformer stations	495	83	578	730	359	1,089	1,020	233	1,253
47. Power transmission and distribution lines, trolley wires	21,077	3,600	24,677	34,783	3,637	38,420	64,951	3,716	68,667
48. Street lighting	1,409	1,491	2,900	1,584	1,527	3,111	1,421	1,277	2,698
Railway, telephone and telegraph	32,922	16,691	49,613	55,300	16,859	72,159	44,283	19,535	63,818
49. Railway tracks and roadbed	23,212	12,145	35,357	43,501	12,869	56,370	29,982	14,930	44,912
50. Signals and interlockers	629	654	1,283	814	869	1,683	906	1,023	1,929
51. Telegraph and telephone lines, underground and marine cables	9,081	3,892	12,973	10,985	3,121	14,106	13,395	3,582	16,977
Gas and oil facilities	32,310	4,340	36,650	85,309	4,758	90,067	34,066	4,957	39,023
52. Gas mains and services	5,754	329	6,083	6,573	341	6,914	5,590	366	5,956
53. Pumping stations, oil	142	168	310	53	168	221	129	175	304
54. Pumping stations, gas	1,668	88	1,756	1,631	40	1,671	115	10	125
55. Oil storage tanks	714	514	1,228	1,231	360	1,591	870	248	1,118
56. Gas storage tanks	5	4	9	—	1	1	35	1	36
57. Oil pipe lines	1,255	478	1,731	441	302	743	307	304	611
58. Gas pipe lines	472	74	546	38,936	145	39,081	838	157	995
59. Oil wells	16,153	274	16,427	15,323	905	16,228	16,726	1,149	17,875
60. Gas wells	5,376	164	5,540	8,293	198	8,491	8,376	177	8,553
61. Oil refinery — Processing units ³	553	2,249	2,802	2,100	2,144	4,244	854	2,104	2,958
62. Natural gas cleaning plants	218	—	218	10,728	154	10,882	226	266	492
Other engineering construction	34,496	6,204	40,700	42,620	6,277	48,897	50,945	6,373	57,318
63. Bridges, trestles, culverts, overpasses, viaducts	22,867	3,171	26,038	16,731	3,474	20,205	13,137	3,622	16,759
64. Tunnels and subways	201	—	201	120	113	233	1,136	—	1,136
65. Incinerators	11	2	13	13	4	17	6	3	9
66. Park systems, landscaping, sodding, etc.	261	284	545	506	754	1,260	699	818	1,517
67. Swimming pools, tennis courts, outdoor recreation facilities ..	268	15	283	390	13	403	406	15	421
68. Mine shafts and other below surface workings	4,352	31	4,383	3,125	174	3,299	6,527	95	6,622
69. Fences, snowsheds, signs, guard rails	1,278	941	2,219	1,270	503	1,773	1,168	565	1,733
70. Other engineering construction	5,258	1,760	7,018	20,465	1,242	21,707	27,866	1,255	29,121

¹ Actual 1963, preliminary 1964, intentions 1965.

² See footnote 2, Table 3.

³ Item 61 "Oil refinery — Processing units" includes related structures employed in production of petrochemicals.

STATISTICAL NOTES

1. Definitions

The purpose of this report is to provide statistics on all new and repair construction undertaken in Canada. By definition, therefore, the figures indicating the value of construction work performed include work done by the labour forces of industrial concerns, institutions, governments and individuals, in addition to that done by general, trade and subcontractors. The figures shown for the value of construction include all costs incurred, directly and indirectly, by the firm paying for the erection of a new structure. For instance, if all of the work put in place is done by a contractor, other cost items such as legal, architectural and engineering fees are included together with payments made to the contractor. Payments received by a contractor generally cover salaries and wages paid, cost of materials used and miscellaneous costs, such as insur-

ance, fuel, office expenses and taxes plus net profit, if any. In terms of cost, the essential difference between work done by contract and that done by the labour force of the firm paying for the work would be the net profit realized by the contractor.

New construction is comprised of all new work put in place, additions and major renovations, conversions and alterations where either a structural change takes place or the life of the structure is extended.

Repair construction includes minor renovations and alterations. As far as possible, snow removal, flushing and sanding of streets and general day-to-day maintenance such as char services are excluded.

2. Sources and Methods

The following is a general description of the various sources of information and methods used to derive the statistics presented in this report. It is hoped that with this information, users of these statistics will be better able to appraise their usefulness in various employments.

Total Value of Construction by Type of Structure

The statistics presented in this report are based largely on information received from firms and individuals paying for the work done. Most of the data on the value of construction by type of structure is the result of two separate surveys: (a) the capital expenditures survey which obtained this information from business firms, institutions and government-owned enterprises, (b) the construction survey of government departments which provided much of the remainder. In both these surveys respondents reported their total expenditures on new and repair construction by type of structure and, in addition, a breakdown of these totals into the value of work done by contract, and that done by their own labour force, the latter being the cost of own account work plus miscellaneous expenditures such as legal, architectural and engineering fees. Briefly, these are the sources used to obtain the total value of construction work by type of structure and the value of work done by construction contractors.

Of the total value of construction shown, about 75 per cent is the result of direct surveys of business firms, institutions, government-owned enterprises and departments and of residential building activity. The remainder is estimated. A brief outline of the methods employed to make these estimates is given in the following paragraphs. For a more complete description of these methods, see pages 19 to 23 of the report "Private and Public Investment in Canada, Outlook 1965".

The value of work figures in the tables of this report are estimates. In order to approximate full coverage in an industry group, reported data were inflated to allow for those firms which did not report. In manufacturing, the method used to inflate the reported expenditures was to multiply the known expenditures by a factor obtained by dividing the total value of shipments in 1961 of all the firms in each industry by the corresponding 1961 total for the firms reporting in the 1965 survey. In carrying out this procedure it has been assumed that the proportion of shipments of the reporting establishments in both 1961 and 1965 has not changed significantly during the period and, further, that there is a relationship between total value of production and expenditures on construction. In the utilities, trade, finance and institutional and commercial services sectors, the same principle has been followed using appropriate basic data for the sector concerned. Expenditures reported by new establishments for which no production or other basic data are available, are included as "net additions". For some industries, which are not amenable to direct survey methods, independent estimates were made. Since reporting firms accounted for about 75 per cent of the total, it is believed that the estimating procedure for the non-reporting firms and industries not covered by direct survey does not introduce any great margin of error into the total. Estimates for individual industries or regions are, of course, subject to greater error than the total figures for Canada.

Both the 1964 preliminary actual figures and the 1965 intentions estimates were reported by firms on the same questionnaire. With the reported figures covering both years coming from the same group of establishments and with the estimating techniques for non-reporting firms the same for each year, the percentage change from 1964 to 1965 can be calculated with more precision than the absolute magnitude of expenditures in the two years.

Housing estimates were made on a different basis from those derived from information submitted directly by business or government. For 1963 and 1964, estimates of the volume of residential construction were prepared on the basis of results from surveys conducted by the Central Mortgage and Housing Corporation and the value estimates were prepared by the Dominion Bureau of Statistics. Appraisals of the probable volume of housing construction in 1965 were made by field representatives of the Central Mortgage and Housing Corporation who consulted local officials, builders, contractors, supply firms, and other individuals and firms concerned with future housing construction projects. Using information obtained from these sources and their own knowledge, the representatives of the Corporation made estimates of private and government initiated housing for all municipalities in Canada with a population of 5,000 and over. The five regional offices and the head office of the Corporation checked these estimates. Independent estimates were made of housing in areas of less than 5,000 population. Finally, an allowance was made for conversions which amounted to a small part of the total. Allowing for probable changes in construction costs, estimates were then prepared for the value of new residential construction work performed and alterations and repair work likely to be undertaken in 1964.

Labour and Material Content

The estimates of labour and material content are derived from the application of ratios of these items to total value of work performed. The 1963 survey of construction contractors provided the basic data for deriving the ratios applied to break

down the total value of work done by contractors in the years 1963 to 1965. The ratios used to break down own account work were computed from information obtained in the capital expenditures and government departments surveys, wherein the respondent was requested to provide data on the costs involved in such work.

Indirect methods were also used in estimating the number of persons, working full-time, required to construct the facilities estimated to be erected in each of the years. In the 1951 to 1953 surveys, respondents were requested to report the average number of employees engaged in construction each month. In the 1954 survey they were asked to report the total number on the payroll during the last pay period of the month. From this point on, however, the same procedure was followed. The monthly data were summed and divided by 12 to compute the annual averages. To allow for non-response and non-coverage, this annual average number of employees of the reporting firms was "blown-up" by the relationship of estimated total salaries and wages of reporting firms. For working owners and partners reported in the contractors survey, salaries were imputed from data reported for salaried employees of construction firms and included in the labour content of the total value of work performed. The resulting figures therefore represent an estimate of the number of persons working full time throughout the year. The total number working at any given time may, of course, be above or below the average. In arriving at the average number for 1964 and 1965 an average annual earnings figure was computed from 1963, projected forward, and divided into the estimated total salaries and wages, including an allowance for working owners and partners, for these years.



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