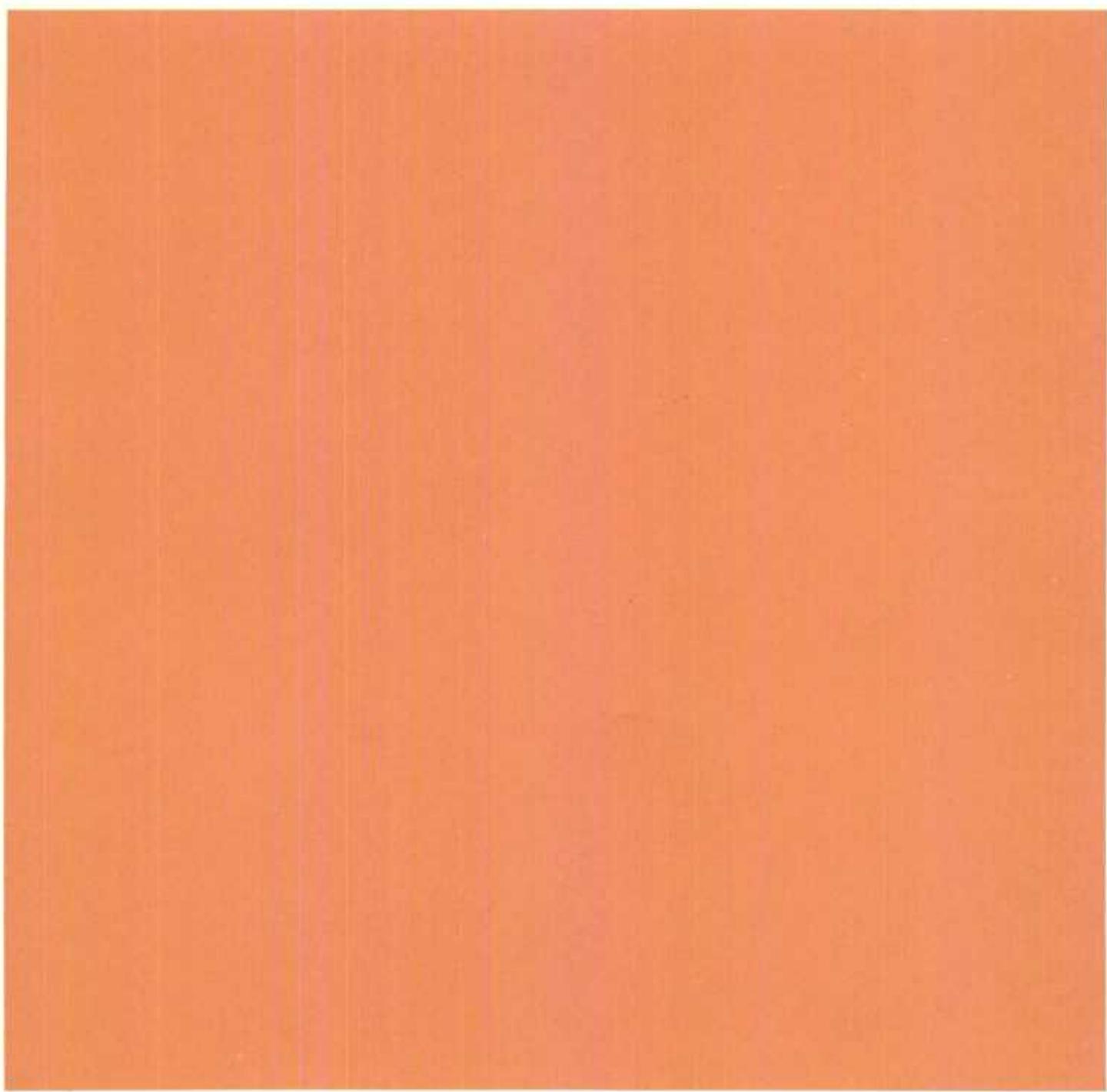


Construction

Construction in Canada

1970-72



STATISTICS CANADA
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CONSTRUCTION IN CANADA

1970-72

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INTRODUCTION

This report contains data on the total value of construction put in place during 1970 and 1971 and on intended construction expenditures for 1972. The information presented for 1971 is preliminary whereas that shown for 1970 and earlier years is final.

For the larger part the contents of *Construction in Canada* are based on the Statistics Canada capital expenditure survey. From the same source an earlier report *Private and Public Investment in Canada, Outlook 1972* is published. *Private and*

Public Investment reports the total capital outlays program including machinery and equipment, whereas *Construction in Canada* emphasizes the construction activity and reports a further detail of construction performed by 70 different types of structure. Additionally statistics on labour and materials input are supplied based on the Statistics Canada contractor survey, and on the censuses of mechanical and electrical trade contractors, and highway, roads and bridge general contractors.

DEFINITIONS

Construction is defined as the creation, renovation, repair and demolition of immobile structures and the alteration of the natural topography of the ground.

Construction activity consists of the output of the **construction industry** plus the output of construction labour forces in other industries.

The **construction industry** is defined as the work performed by establishments primarily engaged in construction ~~under~~ contract ~~work~~. Contract construction in the construction industry is executed by general contractors and special trade contractors. This publication reports "Dollar value" of construction work performed (or put in place) for the construction activity in Canada, as estimated on the basis of surveys (see Statistical Notes, Sources). Included is (1) work performed by the **construction industry** designated as "Contract construction" (Table 2, p. 7) or "Contractors" (Table 8, page 12) and (2) work performed by construction labour forces in other than the construction industry, designated as "Own account" or "Other construction" (Table 2, p. 7) or "Utilities—Governments—Miscellaneous" (Table 8, p. 12).

New construction comprises all new work put in place, as well as additions and major renovations, conversions and alterations where either a structural change takes place or the life of an existing asset is extended beyond its normal life expectancy.

GENERAL REVIEW

Actual construction volumes for 1970 and 1971 amounted to 13.8 and 15.6 billion. This volume is expected to increase to 16.3 billion in 1972. The construction program anticipated for 1972 exceeds the 1971 volume by 0.7 billion or 4.4%, which compares with increases of 4.3% and 13.5% realized in 1970 and 1971. The increase for 1971 is higher than the 11.7% that was anticipated last year for 1971 and amounts in terms of constant dollar volume to an increase of 7.9%.

The industry sectors with the strongest growth for 1972 are expected to be commercial services with 19.5%, forestry with 16.2% and trade with 11.5%. Among the provinces, all except British Columbia project increases for 1972, with notable advances of 17.0% in Prince Edward Island, 13.0% in Nova Scotia and 11.7% in New Brunswick.

Repair construction consists of minor renovations and alterations made to maintain the operating efficiency of the existing structures *within the originally expected life.*

Structures—The construction value, and the structures that this is broken down into, includes all costs incurred directly or indirectly in the construction of the structure. In the independently recognizable structures the value of all permanently built-in equipment forming an integral part of the structure is included, as well as the cost of site preparation and land improvement. The purchase value of land and existing buildings is excluded.

Labour content—The Labour Series as published in *Construction in Canada* is intended to reflect the labour content in terms of "value" and "number" of a specific volume of construction. The "value" is gross payroll and the "number" is an estimate of the total number of persons, employers, own account and paid workers engaged in construction activity, expressed in terms of equivalent man years.

Materials content is the cost of materials installed portion of the value of work performed. The residual difference between value of work performed and cost of labour and materials is all other costs and profit.

In 1972, new construction is estimated to be up 4.4% while the repair portion shows an increase of 4.7%. The proportion of the complete 1972 program to be performed under contract is slightly lower at 76.9% for 1972, although fairly consistent with the 77.5% in 1971. The value of engineering type construction at 42.0% of the total expected volume for 1972 is up 5.6% over 1971, and the building activity portion (58.0%) is up 3.6% over the year before. The residential structures section recorded an increase of 20.5% in 1971, providing most of the strength to the significant increase in total construction work done for that year. For 1972, this structure group is still increasing but at a lower rate of 7.4%.

The only other building structure group with an increase for 1972 is commercial structures, which is up by 9.7%. Most engineering structure groups are up for 1972, creating an ~~some~~ increase in engineering construction of 5.6%.

**TABLE A. Total Value of Construction Work Performed – Percentage Variation from Year to Year
in Terms of Current and Constant Dollars, 1963 - 72^{1,2,3}**

Year	Current dollars		Constant 1961 dollars	
	Amount	Variation	Amount	Variation
	\$ mill	%	\$ mill	%
1963	7,715	5.1	7,454	2.4
1964	8,662	12.3	8,181	9.8
1965	9,929	14.6	8,785	7.4
1966	11,235	13.2	9,331	6.2
1967	11,620	3.4	9,594	2.8
1968	12,214	5.1	9,807	2.2
1969	13,207	8.1	10,075	2.7
1970	13,781	4.3	10,115	0.4
1971	15,647	13.5	10,915	7.9
1972	16,341	4.4	—	—

See footnote(s) on page 44.

TABLE B. Capital and Repair Expenditures – Summary by Sectors, Canada, 1970 - 72^{1,4,5,6,7,8}

Type of enterprise	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Total
millions of dollars									
Agriculture and fishing	225	615	840	89	232	321	314	847	1,161
1970	225	748	973	89	259	348	314	1,007	1,321
1971	224	793	1,017	88	262	350	312	1,055	1,367
Forestry	48	42	90	15	68	83	63	110	173
1970	44	41	85	16	68	84	60	109	169
1971	52	51	103	17	70	87	69	121	190
Mining, quarrying and oil wells ^{5,7}	996	352	1,348	137	343	480	1,133	695	1,828
1970	1,291	414	1,705	132	358	490	1,423	772	2,195
1971	1,225	433	1,658	137	368	505	1,362	801	2,163
Manufacturing	997	2,226	3,223	213	1,204	1,417	1,210	3,430	4,640
1970	877	2,072	2,949	207	1,222	1,429	1,084	3,294	4,378
1971	809	2,068	2,877	225	1,271	1,496	1,034	3,339	4,373
Utilities ⁶	2,044	1,584	3,628	375	843	1,218	2,419	2,427	4,846
1970	2,321	1,654	3,975	398	864	1,262	2,719	2,518	5,237
1971	2,453	1,766	4,219	430	917	1,347	2,883	2,683	5,566
Construction industry	15	259	274	6	222	228	21	481	502
1970	16	275	291	6	236	242	22	511	533
1971	17	283	300	7	243	250	24	526	550
Housing	3,138	—	3,138	871	—	871	4,009	—	4,009
1970	3,929	—	3,929	899	—	899	4,828	—	4,828
1971	4,254	—	4,254	930	—	930	5,184	—	5,184
Trade – Wholesale and retail	210	335	545	78	69	147	288	404	692
1970	172	315	487	60	66	126	232	381	613
1971	197	352	549	61	66	127	258	418	676
Finance, insurance and real estate	419	138	557	43	14	57	462	152	614
1971	469	141	610	43	14	57	512	155	667
1972	508	144	652	45	15	60	553	159	712
Commercial services	131	512	643	23	96	119	154	608	762
1970	173	534	707	24	92	116	197	626	823
1971	210	638	848	25	97	122	235	735	970
Institutional services	1,095	216	1,311	105	29	134	1,200	245	1,445
1970	1,180	230	1,410	117	32	149	1,297	262	1,559
1971	1,129	233	1,362	131	34	165	1,260	267	1,527
Government departments ^{6,8}	2,001	200	2,201	506	86	592	2,507	286	2,793
1971	2,417	250	2,667	542	89	631	2,959	339	3,298
1972	2,607	314	2,921	559	99	658	3,166	413	3,579
Totals	1970	11,319	6,479	17,798	2,461	3,206	5,667	13,780	9,685
	1971	13,114	6,674	19,788	2,533	3,300	5,833	15,647	9,974
	1972	13,685	7,075	20,760	2,655	3,442	6,097	16,340	10,517
									23,465
									25,621
									26,857

See footnote(s) on page 44.

TABLE 1. Total Value of Construction Work Performed — Current and Constant Dollars by New and Repair, 1963-72^{1,3}

Year	New		Repair		Total		Total construction as percentage of Gross National Expenditure	
	Current dollars	Constant 1961 dollars	Current dollars	Constant 1961 dollars	Current dollars	Constant 1961 dollars	Current dollars	Constant 1961 dollars
millions of dollars							per cent	
1963	6,156	5,936	1,559	1,518	7,715	7,454	17.0	16.9
1964	7,032	6,617	1,630	1,564	8,662	8,181	17.4	17.4
1965	8,175	7,254	1,754	1,531	9,929	8,785	18.1	17.5
1966	9,281	7,744	1,954	1,587	11,235	9,331	18.3	17.4
1967	9,474	7,873	2,146	1,721	11,620	9,594	17.7	17.3
1968	9,909	7,982	2,305	1,825	12,214	9,807	17.1	16.8
1969	10,825	8,305	2,382	1,770	13,207	10,075	16.8	16.5
1970	11,320	8,400	2,461	1,715	13,781	10,115	16.3	16.0
1971	13,112	9,222	2,535	1,693	15,647	10,915	17.0	16.4
1972	13,686		2,655		16,341			

See footnote(s) on page 44.

TABLE 2. Total Value of Construction Work Performed — Contractors and Others⁹ by New and Repair, 1968-72¹

Year	Contract construction			Other construction ⁹			Total construction		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
millions of dollars									
1968	8,675	1,260	9,935	1,234	1,045	2,279	9,909	2,305	12,214
1969	9,134	1,387	10,521	1,691	995	2,686	10,825	2,382	13,207
1970	9,356	1,471	10,827	1,964	990	2,954	11,320	2,461	13,781
1971	10,650	1,479	12,129	2,462	1,056	3,518	13,112	2,535	15,647
1972	11,022	1,549	12,571	2,664	1,106	3,770	13,686	2,655	16,341

See footnote(s) on page 44.

TABLE 3. Total Value of Construction Work Performed — Principal Type of Construction, 1968-72^{1,7}

Type of construction	1968		1969		1970		1971		1972	
	Value	Per cent of total								
	\$ mill	%								
Total construction	12,214	100.0	13,207	100.0	13,781	100.0	15,647	100.0	16,341	100.0
Total building construction	7,258	59.4	8,055	61.0	8,098	58.8	9,143	58.4	9,471	58.0
Residential	3,587	29.3	4,228	32.0	4,008	29.1	4,828	30.8	5,184	31.7
Industrial	744	6.1	869	6.6	1,000	7.3	1,027	6.6	908	5.6
Commercial	1,146	9.4	1,152	8.7	1,287	9.3	1,345	8.6	1,475	9.0
Institutional	1,379	11.3	1,334	10.1	1,330	9.7	1,474	9.4	1,447	8.9
Other building	402	3.3	472	3.6	473	3.4	469	3.0	457	2.8
Total engineering	4,956	40.6	5,152	39.0	5,683	41.2	6,504	41.6	6,870	42.0
Marine	134	1.1	166	1.3	145	1.1	146	0.9	201	1.2
Road, highway and aerodrome construction	1,186	9.7	1,255	9.5	1,280	9.3	1,422	9.1	1,510	9.2
Waterworks and sewage systems	403	3.3	398	3.0	488	3.5	629	4.0	664	4.1
Dams and irrigation	230	1.9	69	0.5	58	0.4	78	0.5	69	0.4
Electric power construction	825	6.7	1,005	7.6	1,224	8.9	1,308	8.4	1,282	7.8
Railway, telephone and telegraph construction	524	4.3	525	4.0	568	4.1	608	3.9	639	3.9
Gas and oil facilities	901	7.4	966	7.3	1,094	7.9	1,302	8.3	1,385	8.5
Other engineering construction	753	6.2	768	5.8	826	6.0	1,011	6.5	1,120	6.9

See footnote(s) on page 44.

TABLE 4. Total Value of Construction Work Performed — Principal Type of Construction by Industry, 1970-72^{1,5,7}

Industry	1970			1971			1972		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
	thousands of dollars								
Totals	8,098,287	5,682,931	13,781,218	9,143,502	6,503,864	15,647,366	9,471,431	6,869,483	16,340,914
Agriculture and fishing	204,165	110,259	314,424	203,995	110,143	314,138	202,888	109,549	312,437
Forestry	7,121	55,663	62,784	5,445	54,110	59,555	6,811	62,404	69,216
Mining, quarrying and oil wells ^{5,7}	165,225	968,139	1,133,364	297,059	1,126,489	1,423,548	247,733	1,114,012	1,361,745
Construction	20,637	363	21,000	21,627	373	22,000	23,584	416	24,000
Manufacturing	850,769	360,225	1,210,994	723,582	360,891	1,084,473	618,496	416,575	1,035,071
Utilities	262,789	2,157,559	2,420,348	208,592	2,510,447	2,719,039	211,610	2,670,479	2,882,080
Trade — Wholesale and retail	277,828	10,257	288,085	223,878	7,930	231,808	247,563	10,818	258,381
Finance, insurance and real estate	455,628	6,797	462,425	501,932	9,830	511,762	533,984	18,957	552,944
Commercial services	149,530	3,269	152,799	195,511	1,493	197,004	234,825	658	235,481
Housing	4,008,500	—	4,008,500	4,828,000	—	4,828,000	5,183,700	—	5,183,700
Institutional services	1,186,490	13,156	1,199,646	1,284,691	12,557	1,297,248	1,246,033	14,171	1,260,204
Government departments	509,605	1,997,344	2,506,949	649,190	2,309,601	2,958,791	714,204	2,451,444	3,165,643

See footnote(s) on page 44.

TABLE 5. Total Value of Construction Work Performed — Dollar and Percentage Variation by Principal Type of Construction by Industry, 1970-72^{1,5,7}

Industry	Variation 1970 to 1971						Variation 1971 to 1972					
	Building		Engineering		Total		Building		Engineering		Total	
	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%
Totals	1,045	12.9	821	14.4	1,866	13.5	328	3.6	366	5.6	694	4.4
Agriculture and fishing	—	—	0.1	—	—	0.1	—	—	0.1	—	0.5	—
Forestry	—	2	—	23.5	—	1	—	2.8	—	3	—	5.1
Mining, quarrying and oil wells ^{5,7}	132	79.8	158	16.4	290	25.6	—	50	—	16.6	—	12
Construction	1	4.8	—	2.8	1	4.8	2	9.0	—	11.5	2	9.1
Manufacturing	—	127	—	14.9	—	0.2	—	127	—	10.4	—	105
Utilities	—	54	—	20.6	353	16.4	299	12.3	3	1.4	160	6.4
Trade — Wholesale and retail	—	54	—	19.4	—	2	—	22.7	—	56	—	49
Finance, Insurance and real estate	46	10.2	3	44.6	49	10.7	32	6.4	9	92.8	41	8.6
Commercial services	46	30.7	—	2	—	54.3	44	28.9	39	20.1	—	1
Housing	819	20.4	—	—	819	20.4	356	7.4	—	—	356	7.4
Institutional services	98	8.3	—	—	4.6	98	8.1	—	39	—	3.0	2
Government departments	140	27.4	312	15.6	452	19.0	65	10.0	142	6.1	207	7.3

See footnote(s) on page 44.

TABLE 6. Total Value of Construction Work Performed - Type of Structure, 1968-72^{1,2,11,12}

Type of structure	1968	1969	1970	1971	1972
thousands of dollars					
Total value of construction	12,213,655	13,207,409	13,781,218	15,647,366	16,340,914
Total building construction	7,257,649	8,055,462	8,098,287	9,143,502	9,471,431
Residential	3,586,757	4,227,857	4,008,500	4,828,000	5,183,700
Industrial	743,761	869,135	1,000,210	1,027,622	908,277
2. Factories, plants, workshops, food canneries	576,926	689,510	847,709	744,858	641,439
3. Mine and mine mill buildings	134,204	142,194	111,178	247,058	231,368
4. Railway stations, offices, roadway buildings	20,093	22,366	25,760	22,101	21,865
5. Railway shops, engine houses, water and fuel stations	12,538	15,065	15,563	13,605	13,605
Commercial	1,145,888	1,151,841	1,286,563	1,344,900	1,475,388
6. Warehouses, storehouses, refrigerated storage, etc.	141,483	111,791	88,097	88,423	96,920
7. Grain elevators	17,137	13,113	7,946	8,141	12,852
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	78,626	77,628	92,842	142,968	186,278
9. Office buildings	489,016	511,997	617,823	618,073	609,174
10. Stores, retail and wholesale	232,982	261,046	273,198	280,899	321,840
11. Garages and service stations ¹⁰	86,354	97,190	117,444	101,025	127,328
12. Theatres, arenas, amusement and recreational buildings	96,120	76,507	86,190	102,577	118,508
13. Laundries and dry cleaning establishments	4,170	2,569	3,023	2,794	2,488
Institutional	1,379,264	1,334,534	1,330,195	1,474,000	1,446,571
14. Schools and other educational buildings	983,410	961,464	889,915	947,256	890,850
15. Churches and other religious buildings	42,695	30,903	28,927	18,983	24,105
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	243,319	235,906	263,327	299,621	334,459
17. Other institutional buildings	109,840	106,261	148,026	208,140	197,157
Other building construction	401,979	472,095	472,819	468,980	457,495
18. Farm buildings (excluding dwellings)	229,508	229,287	208,420	208,999	207,717
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	43,232	63,123	66,405	65,112	68,828
20. Aeroplane hangars	16,221	15,718	27,668	16,956	5,934
21. Passenger terminals, bus, boat or air	13,295	8,210	27,164	33,310	28,572
22. Armouries, barracks, drill halls, etc. ¹⁰	11,551	8,070	13,253	15,943	16,148
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	19,965	20,372	27,737	15,364	10,591
24. Laboratories ¹¹	—	25,688	18,828	22,786	33,295
25. Other building construction ^{10,11}	68,207	101,627	83,344	90,510	86,410
Total engineering construction	4,956,006	5,151,947	5,682,931	6,503,864	6,869,483
Marine construction	134,250	165,374	144,659	145,521	200,526
26. Docks, wharves, piers, breakwaters	64,723	73,949	63,814	62,046	98,054
27. Retaining walls, embankments, ripraping	18,235	37,021	32,809	32,209	36,098
28. Canals and waterways	34,766	35,482	29,828	32,634	34,990
29. Dredging and pile driving ¹⁰	5,518	9,378	6,977	6,280	6,797
30. Dyke construction	2,430	4,359	2,687	4,761	9,940
31. Logging booms	954	1,202	881	1,188	1,018
32. Other marine construction	7,624	3,983	7,663	6,403	13,629

See footnote(s) on page 44.

TABLE 6. Total Value of Construction Work Performed — Type of Structure, 1968-72^{1,10,11,12} — Concluded

Type of structure	1968	1969	1970	1971	1972
thousands of dollars					
Road, highway and aerodrome construction	1,185,408	1,255,257	1,280,264	1,422,406	1,510,453
33. Highway, road and street construction, (includes grading, scraping, oiling, filling) ¹¹	1,150,005	1,210,268	1,231,975	1,365,143	1,445,979
34. Parking lots ^{10,11}	—	8,566	12,670	13,017	18,809
36. Sidewalks, paths	24,040	20,639	20,411	24,517	25,926
37. Aerodromes, landing fields, runways, tarmac	11,363	15,784	15,208	19,729	19,739
Waterworks and sewage systems	403,370	397,796	487,709	629,315	664,510
38. Tie drains, drainage ditches, storm sewers	43,525	44,070	82,678	106,901	103,377
39. Water mains, hydrants and services	123,529	110,955	131,920	166,485	176,634
40. Sewage systems and connections	201,457	208,799	238,897	302,570	340,547
41. Pumping stations, water ¹⁰	28,814	26,442	27,472	43,476	37,470
42. Water storage tanks ¹⁰	6,045	7,530	6,742	7,883	6,482
Dams and irrigation	230,084	68,696	58,217	78,232	68,994
43. Dams and reservoirs ¹¹	197,060	34,521	19,749	46,088	39,462
44. Irrigation and land reclamation projects	33,024	34,175	38,468	32,144	29,532
Electric power construction	825,257	1,005,123	1,223,581	1,307,558	1,281,556
45. Electric power generating plants, including water conveying and controlling structures	371,811	530,788	629,770	696,866	620,778
46. Electric transformer stations ¹²	49,552	44,916	11,160	12,062	17,847
47. Power transmission and distribution lines, trolley wires	376,916	402,416	569,019	582,675	628,041
48. Street lighting	26,978	27,003	13,632	15,955	14,890
Railway, telephone and telegraph	524,161	525,305	568,344	607,971	638,603
49. Railway tracks and roadbed ¹⁰	251,004	244,795	256,426	268,579	253,455
50. Signals and interlockers	22,175	25,127	29,081	26,507	26,108
51. Telegraph and telephone lines, underground and marine cables	250,982	255,383	282,837	312,885	359,040
Gas and oil facilities	900,751	965,993	1,093,631	1,302,112	1,384,735
52. Gas mains and services	94,029	121,575	130,400	124,667	136,012
53. Pumping stations, oil	10,619	7,833	12,415	35,774	27,202
54. Pumping stations, gas	33,724	25,688	47,403	29,488	16,745
55. Oil storage tanks ¹⁰	15,966	21,004	34,501	27,387	26,315
56. Gas storage tanks	7,038	7,885	4,841	1,852	3,635
57. Oil pipe lines ¹⁰	45,635	38,836	22,550	20,553	47,631
58. Gas pipe lines ¹⁰	101,600	84,961	77,853	162,678	124,846
59. Oil and gas wells ^{10,11}	362,461	443,169	431,367	475,940	590,674
61. Oil refinery—Processing units ¹⁰	148,875	129,549	151,818	191,296	262,788
62. Natural gas processing plants	80,604	85,493	180,483	232,477	146,887
Other engineering construction	752,725	768,403	826,526	1,010,749	1,120,106
63. Bridges, trestles, culverts, overpasses, viaducts	228,085	216,303	181,009	182,865	184,819
64. Tunnels and subways	21,226	23,385	47,460	45,323	47,541
65. Incinerators	299	135	5,560	5,209	9,470
66. Park systems, landscaping, sodding, etc.	21,939	31,339	19,015	43,248	45,462
67. Swimming pools, tennis courts, outdoor recreation facilities	2,918	2,248	20,584	12,026	17,312
68. Mine shafts and other below surface workings	191,066	216,431	278,466	234,486	239,855
69. Fences, snowsheds, signs, guard rails	46,209	47,314	43,405	42,715	43,434
70. Other engineering construction ¹⁰	240,983	231,248	231,027	444,877	532,213

See footnote(s) on page 44.

TABLE 7. Total Value of Construction Work Performed — Labour Content and Cost of Materials Used by Province, 1970-72^{1,13,14}

Province and year	Labour content		Cost of materials used	Value of work performed		
	Number ¹⁴	Value				
thousands of dollars						
Canada:						
1970	570,632	4,910,685	5,867,059	13,781,218		
1971	575,378	5,565,326	6,658,507	15,647,366		
1972	548,046	5,809,672	6,950,971	16,340,914		
Newfoundland:						
1970	18,095	147,752	153,188	415,099		
1971	23,712	194,539	213,434	539,215		
1972	23,666	215,242	240,771	594,676		
Prince Edward Island:						
1970	2,542	15,624	19,961	45,661		
1971	2,577	19,138	26,433	57,388		
1972	2,779	22,500	30,409	67,116		
Nova Scotia:						
1970	21,748	163,581	224,048	484,709		
1971	18,433	157,503	215,441	466,011		
1972	18,443	175,203	242,720	526,464		
New Brunswick:						
1970	19,018	121,614	151,236	339,898		
1971	16,239	123,080	156,328	349,848		
1972	16,389	138,170	173,448	390,859		
Quebec:						
1970	122,457	971,617	1,193,485	2,788,533		
1971	126,157	1,132,944	1,391,622	3,252,589		
1972	123,873	1,224,106	1,505,768	3,517,388		
Ontario:						
1970	206,616	1,857,513	2,132,373	4,984,865		
1971	206,587	2,088,223	2,388,862	5,623,599		
1972	193,285	2,143,965	2,433,430	5,758,832		
Manitoba:						
1970	30,590	249,055	284,983	695,110		
1971	28,929	250,553	285,753	697,462		
1972	28,748	275,100	310,948	763,895		
Saskatchewan:						
1970	21,778	171,499	197,086	475,663		
1971	21,782	188,987	217,904	523,886		
1972	20,582	195,918	226,091	543,370		
Alberta:						
1970	63,696	581,882	717,722	1,709,950		
1971	58,582	596,137	747,599	1,764,195		
1972	55,134	616,517	780,171	1,828,019		
British Columbia:¹³						
1970	64,092	630,548	792,977	1,841,730		
1971	72,380	814,222	1,015,131	2,373,173		
1972	65,147	802,951	1,007,215	2,350,295		

See footnote(s) on page 44.

TABLE 8. Total Value of Work Performed—Labour Content and Cost of Materials Used by Contractors, Utilities, Governments and Miscellaneous, 1970-72^{1,2,14,15}

Employer and year	Labour content		Cost of materials used	Value of work performed
	Number ¹⁴	Value		
thousands of dollars				
Total:				
1970	570,632	4,910,685	5,867,059	13,781,218
1971	575,378	5,565,326	6,658,507	15,647,366
1972	548,046	5,809,672	6,950,971	16,340,914
Contractors:				
1970	437,159	3,814,469	4,684,519	10,827,255
1971	433,404	4,248,731	5,262,151	12,129,602
1972	408,176	4,383,537	5,467,428	12,571,260
Utilities:²				
1970	58,184	520,057	557,007	1,418,225
1971	63,200	636,033	661,675	1,712,993
1972	64,414	710,971	720,073	1,885,074
Governments:³				
1970	46,218	339,353	297,132	831,803
1971	48,129	397,835	343,168	967,215
1972	46,764	425,590	366,160	1,031,427
Miscellaneous:^{2,15}				
1970	29,071	236,806	328,401	703,935
1971	30,645	282,727	391,513	837,556
1972	28,692	289,574	397,310	853,153

See footnote(s) on page 44.

TABLE 9. Total Value of Construction Work Performed—Type of Structure and by New and Repair—Canada, 1970-72^{1,10,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	11,320,029	2,461,189	13,781,218	13,112,198	2,535,168	15,647,366	13,685,571	2,655,343	16,340,914
Total building construction	6,574,987	1,523,300	8,098,287	7,593,323	1,550,179	9,143,502	7,866,192	1,605,239	9,471,431
Residential	3,137,800	870,700	4,008,500	3,928,600	899,400	4,828,000	4,254,000	929,700	5,183,700
Industrial	804,196	196,014	1,000,210	836,861	190,761	1,027,622	709,911	198,366	908,277
2. Factories, plants, workshops, food canneries	696,871	150,838	847,709	596,766	148,092	744,858	487,374	154,065	641,439
3. Mine and mine mill buildings	86,016	25,162	111,178	222,969	24,089	247,058	206,756	24,612	231,368
4. Railway stations, offices, roadway buildings	14,134	11,626	25,760	11,063	11,038	22,101	10,093	11,772	21,865
5. Railway shops, engine houses, water and fuel stations	7,175	8,388	15,563	6,063	7,542	13,605	5,688	7,917	13,605
Commercial	1,065,929	220,634	1,286,563	1,140,813	204,087	1,344,900	1,264,697	210,691	1,475,388
6. Warehouses, storehouses, refrigerated storage, etc.	69,319	18,778	88,097	69,006	19,417	88,423	76,634	20,286	96,920
7. Grain elevators	4,075	3,871	7,946	3,483	4,658	8,141	7,409	5,443	12,852
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	75,916	16,926	92,842	125,472	17,496	142,968	167,259	19,019	186,278
9. Office buildings	536,442	81,381	617,823	540,893	77,180	618,073	531,842	77,332	609,174
10. Stores, retail and wholesale	220,678	52,520	273,198	237,629	43,270	280,899	275,325	46,515	321,840
11. Garages and service stations	85,567	31,877	117,444	74,999	26,026	101,025	100,546	26,782	127,328
12. Theatres, arenas, amusement and recreational buildings	72,119	14,071	86,190	87,829	14,748	102,577	104,464	14,044	118,508
13. Laundries and dry cleaning establishments	1,813	1,210	3,023	1,302	1,292	2,794	1,218	1,270	2,488
Institutional	1,205,234	124,961	1,330,195	1,320,668	153,332	1,474,000	1,283,190	163,381	1,446,571
14. Schools and other educational buildings	822,797	67,118	889,915	872,512	74,744	947,256	811,306	79,544	890,850
15. Churches and other religious buildings	22,189	6,738	28,927	12,184	6,799	18,983	17,537	6,568	24,105
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	230,739	32,588	263,327	263,168	36,453	299,621	287,853	46,606	334,459
17. Other institutional buildings	129,509	18,517	148,026	172,804	35,336	208,140	166,494	30,663	197,157
Other building construction	361,828	110,991	472,819	366,381	102,599	468,980	354,394	103,101	457,495
18. Farm buildings (excluding dwellings)	150,094	58,326	208,420	150,514	58,485	208,999	149,971	57,746	207,717
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	57,798	8,607	66,405	55,205	9,907	65,112	58,212	10,616	68,828
20. Aeroplane hangars	24,495	3,173	27,668	15,720	1,236	16,956	4,561	1,373	5,934
21. Passenger terminals, bus, boat or air	26,655	509	27,164	28,009	5,301	33,310	22,847	5,725	28,572
22. Armouries, barracks, drill halls, etc.	6,705	6,548	13,253	9,864	6,079	15,943	9,725	6,423	16,148
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	16,814	10,923	27,737	12,132	3,232	15,364	7,148	3,443	10,591
24. Laboratories	15,492	3,336	18,828	20,196	2,590	22,786	30,583	2,712	33,295
25. Other building construction	63,775	19,569	83,344	74,741	15,769	90,510	71,347	15,063	86,410
Total engineering construction	4,745,042	937,889	5,682,931	5,518,875	984,989	6,503,864	5,819,379	1,050,104	6,869,483
Marine construction	113,501	31,158	144,659	113,815	31,706	145,521	166,635	33,891	200,526
26. Docks, wharves, piers, breakwaters	53,546	10,268	63,814	51,781	10,265	62,046	87,617	10,437	98,054
27. Retaining walls, embankments, ripraping	18,386	14,423	32,809	18,759	13,450	32,209	22,444	13,654	36,098
28. Canals and waterways	27,447	2,381	29,828	29,716	2,918	32,634	31,425	3,565	34,990
29. Dredging and pile driving	4,973	2,004	6,977	4,604	1,676	6,280	4,701	2,096	6,797
30. Dyke construction	2,143	544	2,687	4,378	383	4,761	9,668	272	9,940
31. Logging booms	320	561	881	621	567	1,188	461	557	1,018
32. Other marine construction	6,686	977	7,663	3,956	2,447	6,403	10,319	3,310	13,629

See footnote(s) on page 44.

TABLE 9. Total Value of Construction Work Performed — Type of Structure and by New and Repair — Canada, 1970-72^{1,10,11} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	Thousands of dollars								
Road, highway and aerodrome construction	1,011,909	268,355	1,280,264	1,136,920	285,486	1,422,406	1,207,667	302,786	1,510,453
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	975,865	256,110	1,231,975	1,092,372	272,771	1,365,143	1,156,494	289,485	1,445,979
34. Parking lots	9,562	3,108	12,670	9,817	3,200	13,017	15,377	3,432	18,809
36. Sidewalks, paths	14,006	6,405	20,411	17,509	7,008	24,517	19,309	6,617	25,926
37. Aerodromes, landing fields, runways, tarmac	12,476	2,732	15,208	17,222	2,507	19,729	16,487	3,252	19,739
Waterworks and sewage systems	412,134	75,575	487,709	546,136	83,179	629,315	578,646	83,864	664,510
38. Tile drains, drainage ditches, storm sewers	69,697	12,981	82,678	91,018	15,883	106,901	87,934	15,443	103,377
39. Water mains, hydrants and services	94,353	37,567	131,920	127,720	40,765	168,485	135,000	41,634	176,634
40. Sewage systems and connections	219,543	19,354	238,897	281,606	20,964	302,570	317,904	22,643	340,547
41. Pumping stations, water ¹⁰	23,102	4,370	27,472	39,306	4,170	43,476	32,637	4,833	37,470
42. Water storage tanks ¹⁰	5,439	1,303	6,742	6,486	1,397	7,883	5,171	1,311	6,482
Dams and irrigation	46,805	11,412	58,217	66,856	11,376	78,232	56,871	12,123	68,994
43. Dams and reservoirs	16,658	3,091	19,749	43,561	2,527	46,088	36,134	3,328	39,462
44. Irrigation and land reclamation projects	30,147	8,321	38,468	23,295	8,849	32,144	20,737	8,795	29,532
Electric power construction	1,125,378	98,203	1,223,581	1,179,138	128,420	1,307,558	1,142,005	139,551	1,281,556
45. Electric power generating plants, including water conveying and controlling structures	602,914	26,856	629,770	648,284	48,582	696,866	568,618	52,160	620,778
46. Electric transformer stations	10,495	665	11,160	11,503	559	12,062	17,183	664	17,847
47. Power transmission and distribution lines, trolley wires	503,040	65,979	569,019	508,659	74,016	582,675	546,690	81,351	628,041
48. Street lighting	8,929	4,703	13,632	10,692	5,263	15,955	9,514	5,376	14,890
Railway, telephone and telegraph	375,616	192,728	568,344	416,988	190,983	607,971	435,452	203,151	638,603
49. Railway tracks and roadbed	138,200	118,226	256,426	152,728	115,851	268,579	134,571	118,884	253,455
50. Signals and interlockers	13,618	15,463	29,081	10,927	15,580	26,507	9,750	16,358	26,108
51. Telegraph and telephone lines, underground and marine cables	223,798	59,039	282,837	253,333	59,552	312,685	291,131	67,909	359,040
Gas and oil facilities.....	938,936	154,695	1,093,631	1,148,055	154,057	1,302,112	1,211,432	173,303	1,384,735
52. Gas mains and services	120,986	9,414	130,400	114,140	10,527	124,667	127,341	10,671	138,012
53. Pumping stations, oil	9,373	3,042	12,415	32,634	3,140	35,774	23,699	3,503	27,202
54. Pumping stations, gas	44,032	3,371	47,403	27,895	1,593	29,468	15,171	1,574	16,745
55. Oil storage tanks ¹⁰	31,108	3,393	34,501	24,064	3,323	27,387	22,655	3,860	26,315
56. Gas storage tanks	4,478	363	4,841	1,697	155	1,852	3,429	206	3,635
57. Oil pipe lines	17,264	5,286	22,550	16,323	4,230	20,553	42,834	4,797	47,631
58. Gas pipe lines ¹⁰	76,355	1,498	77,853	161,728	950	162,678	124,040	806	124,846
59. Oil and gas wells	372,764	58,603	431,367	420,199	55,741	475,940	529,601	61,073	590,674
61. Oil refinery — Processing units ¹⁰	105,947	45,871	151,818	143,201	48,095	191,296	205,432	57,356	262,788
62. Natural gas processing plants	156,629	23,854	180,483	206,174	26,303	232,477	117,230	29,657	146,887
Other engineering construction	720,783	105,763	826,526	910,967	99,782	1,010,749	1,020,671	99,435	1,120,106
63. Bridges, trestles, culverts, overpasses, viaducts	151,193	29,816	181,009	153,404	29,461	182,865	156,780	28,039	184,819
64. Tunnels and subways	46,178	1,282	47,460	44,510	813	45,323	46,651	890	47,541
65. Incinerators	4,116	1,444	5,560	4,272	937	5,209	8,412	1,058	9,470
66. Park systems, landscaping, sodding, etc.	13,282	5,733	19,015	35,488	7,760	43,248	35,046	10,416	45,462
67. Swimming pools, tennis courts, outdoor recreation facilities	17,614	2,970	20,584	11,122	904	12,026	16,245	1,067	17,312
68. Mine shafts and other below surface workings	274,569	3,897	278,466	230,577	3,909	234,486	236,475	3,380	239,855
69. Fences, snowsheds, signs, guard rails	28,264	15,141	43,405	27,949	14,766	42,715	28,543	14,891	43,434
70. Other engineering construction ¹⁰	185,547	45,480	231,027	403,645	41,232	444,877	492,519	39,694	532,213

See footnote(s) on page 44.

TABLE 10. Total Value of Construction Work Performed - New and Repair by Type of Structure by Primary Industries, 1970-72^{1,7,10,13,16,17}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,284,584	246,988	1,531,572	1,575,797	243,444	1,819,241	1,518,049	249,348	1,767,397
Total building construction	297,278	99,870	397,148	432,899	95,227	528,126	384,907	96,109	481,016
Residential	-	-	-	-	-	-	-	-	-
Industrial	100,635	29,915	130,550	242,245	28,571	270,816	214,318	29,221	243,539
2. Factories, plants, workshops, food canneries	14,934	4,753	19,687	19,765	4,444	24,209	8,533	4,609	13,142
3. Mine and mine mill buildings	85,701	25,162	110,863	222,436	24,082	246,518	205,785	24,612	230,397
4. Railway stations, offices, roadway buildings	-	-	-	-	-	-	-	-	-
5. Railways shops, engine houses, water and fuel stations	-	-	-	44	45	89	-	-	-
Commercial	19,695	5,856	25,551	23,977	5,598	29,575	17,428	6,214	23,642
6. Warehouses, storehouses, refrigerated storage, etc.	5,923	1,960	7,883	6,609	1,847	8,456	6,020	2,118	8,138
7. Grain elevators	-	-	-	-	-	-	-	-	-
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	-	11	11	-	2	2	-	2	2
9. Office buildings	7,811	2,399	10,210	14,039	2,329	16,368	9,572	2,618	12,190
10. Stores, retail and wholesale	-	5	5	-	-	-	-	-	-
11. Garages and service stations	5,541	1,295	6,836	2,470	1,238	3,708	1,546	1,301	2,847
12. Theatres, arenas, amusement and recreational buildings	420	186	606	859	182	1,041	290	175	465
13. Laundries and dry cleaning establishments	-	-	-	-	-	-	-	-	-
Institutional	525	156	681	26	182	208	206	174	380
14. Schools and other educational buildings	300	133	433	-	156	156	200	149	349
15. Churches and other religious buildings	-	-	-	-	-	-	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	225	23	248	26	26	52	6	25	31
17. Other institutional buildings	-	-	-	-	-	-	-	-	-
Other building construction	176,423	63,943	240,366	166,651	60,876	227,527	152,955	60,500	213,455
18. Farm buildings (excluding dwellings)	145,965	57,499	203,464	145,606	57,743	203,349	145,056	57,169	202,225
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	45	35	80	27	40	67	34	40	74
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	13,129	3,110	16,239	10,335	2,772	13,107	5,292	2,869	8,161
24. Laboratories	-	-	-	-	-	-	-	-	-
25. Other building construction	17,284	3,299	20,583	10,683	321	11,004	2,573	422	2,995
Total engineering construction	987,306	147,118	1,134,424	1,142,898	148,217	1,291,115	1,133,142	153,239	1,286,381
Marine construction	1,971	1,337	3,308	6,764	1,333	8,097	4,658	1,289	5,947
26. Docks, wharves, piers, breakwaters	1,486	715	2,201	6,050	720	6,770	4,057	659	4,716
27. Retaining walls, embankments, ripraping	123	9	132	-	-	-	-	-	-
28. Canals and waterways	71	130	201	-	38	38	-	31	31
29. Dredging and pile driving	-	78	78	6	75	81	-	109	109
30. Dyke construction	-	9	9	-	18	18	-	21	21
31. Logging booms	290	389	679	599	373	972	455	382	837
32. Other marine construction	1	7	8	109	109	218	146	87	233

See footnote(s) on page 44.

TABLE 10. Total Value of Construction Work Performed — New and Repair by Type of Structure by Primary Industries, 1970-72^{1,7,10,11,16,17} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	56,152	14,015	70,167	57,192	15,984	73,176	51,335	17,225	68,560
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	55,867	13,698	69,565	56,944	15,860	72,804	51,117	17,136	68,253
34. Parking lots	285	307	592	248	100	348	218	79	297
36. Sidewalks, paths	—	—	—	—	—	—	—	—	—
37. Aerodromes, landing fields, runways, tarmac	—	10	10	—	24	24	—	10	10
Waterworks and sewage systems	40,847	14,141	54,988	49,746	14,478	64,224	42,809	14,339	57,148
38. Tile drains, drainage ditches, storm sewers	15,938	6,224	22,162	17,349	6,252	23,601	16,006	6,190	22,196
39. Water mains, hydrants and services	19,555	6,615	26,170	22,690	6,774	29,464	22,197	6,713	28,910
40. Sewage systems and connections	648	53	701	1,000	76	1,076	884	75	959
41. Pumping stations, water ¹⁰	1,819	266	2,085	4,850	357	5,207	1,113	354	1,467
42. Water storage tanks ¹⁰	2,887	983	3,870	3,857	1,019	4,876	2,609	1,007	3,616
Dams and irrigation	17,965	7,137	25,102	17,965	7,142	25,107	17,854	7,074	24,928
43. Dams and reservoirs	—	61	61	44	35	79	—	38	38
44. Irrigation and land reclamation projects	17,965	7,076	25,041	17,921	7,107	25,028	17,854	7,036	24,890
Electric power construction	7,169	595	7,764	21,432	792	22,224	14,556	778	15,334
45. Electric power generating plants, including water conveying and controlling structures	3,432	256	3,688	7,108	334	7,442	54	327	381
46. Electric transformer stations	—	—	—	—	—	—	—	—	—
47. Power transmission and distribution lines, trolley wires	3,737	339	4,076	14,324	458	14,782	14,502	451	14,953
48. Street lighting	—	—	—	—	—	—	—	—	—
Railway, telephone and telegraph	1,751	1,598	3,349	5,339	1,235	6,574	2,720	1,059	3,779
49. Railway tracks and roadbed	1,731	1,536	3,267	5,312	1,204	6,516	2,699	1,033	3,732
50. Signals and interlockers	—	8	8	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables	20	54	74	27	31	58	21	26	47
Gas and oil facilities	527,720	82,300	610,020	619,599	80,481	700,080	644,207	88,917	733,124
52. Gas mains and services	—	—	—	—	—	—	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	—	—	—	—	—	—	—	—	—
56. Gas storage tanks	—	1	1	—	—	—	—	—	—
57. Oil pipe lines	—	—	—	—	—	—	—	—	—
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil and gas wells ⁷	371,112	58,445	429,557	413,425	54,178	467,603	526,977	59,260	586,237
61. Oil refinery — Processing units	—	—	—	—	—	—	—	—	—
62. Natural gas processing plants ⁷	156,608	23,854	180,462	206,174	26,303	232,477	117,230	29,657	146,887
Other engineering construction	333,731	25,995	359,726	364,861	26,772	391,633	355,003	22,558	377,561
63. Bridges, trestles, culverts, overpasses, viaducts	1,250	228	1,478	365	177	542	774	202	976
64. Tunnels and subways	—	—	—	—	—	—	—	—	—
65. Incinerators	—	—	—	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	23	6	29	—	9	9	2	7	9
67. Swimming pools, tennis courts, outdoor recreation facilities	—	—	—	—	—	—	—	—	—
68. Mine shafts and other below surface workings	274,266	3,897	278,163	230,577	3,909	234,486	236,475	3,380	239,855
69. Fences, snowsheds, signs, guard rails	22,460	8,861	31,321	22,421	8,901	31,322	22,321	8,814	31,135
70. Other engineering construction ¹⁰	35,732	13,003	48,735	111,498	13,776	125,274	95,431	10,155	105,586

See footnote(s) on page 44.

TABLE 11. Total Value of Construction Work Performed — New and Repair by Type of Structure by Manufacturing Industry, 1970-72^{1,10,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	997,071	213,923	1,210,994	876,795	207,678	1,084,473	809,929	225,142	1,035,071
Total building construction	708,310	142,459	850,769	585,989	137,593	723,582	474,711	143,785	618,496
Residential	—	—	—	—	—	—	—	—	—
Industrial	651,809	135,217	787,026	549,667	131,951	681,618	439,858	137,819	577,677
2. Factories, plants, workshops, food canneries	651,460	135,213	786,673	549,158	131,932	681,090	438,887	137,804	576,691
3. Mine and mine mill buildings	315	—	315	500	2	502	971	—	971
4. Railway stations, offices, roadway buildings	—	1	1	—	13	13	—	11	11
5. Railway shops, engine houses, water and fuel stations	34	3	37	9	4	13	—	4	4
Commercial	52,135	5,931	58,066	34,631	5,052	39,683	33,237	5,427	38,664
6. Warehouses, storehouses, refrigerated storage, etc.	19,292	1,852	21,144	17,125	1,853	18,978	18,929	1,948	20,877
7. Grain elevators	—	9	9	—	—	—	—	—	—
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	48	147	195	6	83	89	443	74	517
9. Office buildings	26,662	3,607	30,269	13,334	2,962	16,296	7,344	3,015	10,359
10. Stores, retail and wholesale	1,956	227	2,183	997	34	1,031	2,371	320	2,691
11. Garages and service stations	3,877	62	3,939	3,168	107	3,275	4,150	62	4,212
12. Theatres, arenas, amusement and recreational buildings	285	27	312	1	13	14	—	8	8
13. Laundries and dry cleaning establishments	15	—	15	—	—	—	—	—	—
Institutional	262	16	278	3	9	12	—	7	7
14. Schools and other educational buildings	44	—	44	—	—	—	—	—	—
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	218	15	233	3	9	12	—	7	7
17. Other institutional buildings	—	1	1	—	—	—	—	—	—
Other building construction	4,104	1,295	5,399	1,688	581	2,269	1,616	532	2,148
18. Farm buildings (excluding dwellings)	823	131	954	886	62	948	447	66	513
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	3	—	3	—	—	—	—	—	—
20. Aeroplane hangars	92	431	523	—	16	16	—	20	20
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,340	411	1,751	145	277	422	198	273	471
24. Laboratories	199	151	350	180	185	365	279	132	411
25. Other building construction	1,647	171	1,818	477	41	518	692	41	733
Total engineering construction	288,761	71,464	360,225	290,806	70,085	360,891	335,218	81,357	416,575
Marine construction	9,936	1,889	11,825	3,903	2,128	6,031	14,689	2,002	16,691
26. Docks, wharves, piers, breakwaters	8,885	843	9,728	3,354	1,118	4,472	13,553	998	14,551
27. Retaining walls, embankments, ripraping	297	49	346	57	9	66	841	41	882
28. Canals and waterways	—	6	6	—	—	—	24	—	24
29. Dredging and pile driving	115	655	770	44	503	547	222	672	894
30. Dyke construction	125	36	161	266	7	273	35	8	43
31. Logging booms	30	172	202	22	193	215	6	175	181
32. Other marine construction	484	128	612	160	298	458	8	108	116

See footnote(s) on page 44.

TABLE 11. Total Value of Construction Work Performed—New and Repair by Type of Structure by Manufacturing Industry, 1970-72^{1,10,11}—Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	11,790	2,925	14,715	6,266	2,759	9,025	6,346	3,088	9,434
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	8,878	2,375	11,253	4,708	2,040	6,748	5,188	2,413	7,601
34. Parking lots	2,707	540	3,247	1,517	707	2,224	905	668	1,573
36. Sidewalks, paths	204	10	214	41	12	53	253	7	260
37. Aerodromes, landing fields, runways, tarmac	1	—	1	—	—	—	—	—	—
Waterworks and sewage systems	14,498	2,274	16,772	13,529	2,097	15,626	10,508	2,414	12,922
38. Tile drains, drainage ditches, storm sewers	654	242	896	2,249	67	2,316	2,742	183	2,925
39. Water mains, hydrants and services	1,942	544	2,486	1,767	432	2,199	1,292	501	1,793
40. Sewage systems and connections	10,528	724	11,252	6,261	771	7,032	5,654	779	6,433
41. Pumping stations, water	1,034	648	1,682	2,871	784	3,655	741	912	1,653
42. Water storage tanks	340	116	456	381	43	424	79	39	118
Dams and irrigation	102	125	227	833	53	886	246	63	309
43. Dams and reservoirs	15	124	139	833	53	886	246	63	309
44. Irrigation and land reclamation projects	87	1	88	—	—	—	—	—	—
Electric power construction	20,061	2,870	22,931	6,071	2,074	8,145	3,924	2,414	6,338
45. Electric power generating plants, including water conveying and controlling structures	6,522	1,943	8,465	2,592	1,289	3,881	525	1,465	1,990
46. Electric transformer stations	9,271	384	9,655	2,671	349	3,020	2,084	435	2,519
47. Power transmission and distribution lines, trolley wires	4,051	440	4,491	732	420	1,152	1,266	473	1,739
48. Street lighting	217	103	320	76	16	92	49	41	90
Railway, telephone and telegraph	2,203	1,595	3,798	1,089	1,313	2,402	1,122	1,297	2,419
49. Railway tracks and roadbed	1,578	1,565	3,143	1,089	1,301	2,390	1,122	1,282	2,404
50. Signals and interlockers	302	1	303	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables	323	29	352	—	12	12	—	15	15
Gas and oil facilities	134,631	49,890	184,521	165,695	53,778	219,473	220,915	63,680	284,595
52. Gas mains and services	970	568	1,538	517	616	1,133	2,249	654	2,903
53. Pumping stations, oil	7	48	55	29	13	42	20	9	29
54. Pumping stations, gas	—	1	1	442	156	598	500	383	883
55. Oil storage tanks	26,472	2,806	29,278	13,799	2,537	16,336	8,790	2,629	11,419
56. Gas storage tanks	334	169	503	—	1	1	—	2	2
57. Oil pipe lines	853	394	1,247	1,397	798	2,195	2,415	838	3,253
58. Gas pipe lines	48	33	81	153	22	175	11	20	31
59. Oil and gas wells	—	—	—	6,157	1,540	7,697	1,498	1,789	3,287
61. Oil refinery — Processing units ¹⁰	105,947	45,871	151,818	143,201	48,095	191,296	205,432	57,356	262,788
62. Natural gas processing plants	—	—	—	—	—	—	—	—	—
Other engineering construction	95,540	9,896	105,436	93,420	5,883	99,303	77,468	6,399	83,867
63. Bridges, trestles, culverts, overpasses, viaducts	1,771	59	1,830	65	52	117	5	15	20
64. Tunnels and subways	98	1	99	12	3	15	—	2	2
65. Incinerators	1	40	41	181	3	184	495	1	496
66. Park systems, landscaping, sodding, etc.	136	218	354	75	187	262	236	205	441
67. Swimming pools, tennis courts, outdoor recreation facilities	5	12	17	—	9	9	—	6	6
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	1,927	118	2,045	466	219	685	231	218	449
70. Other engineering construction ¹⁰	91,602	9,448	101,050	92,621	5,410	98,031	76,501	5,952	82,453

See footnote(s) on page 44.

TABLE 12. Total Value of Construction Work Performed—New and Repair by Type of Structure by Utilities, 1970-73^{1,6,10,11,12}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	2,044,929	375,419	2,420,348	2,320,908	398,131	2,719,039	2,452,381	429,708	2,882,089
Total building construction	205,057	57,732	262,789	155,112	53,480	208,592	153,666	57,944	211,610
Residential	—	—	—	—	—	—	—	—	—
Industrial	26,505	21,536	48,041	20,537	21,568	42,105	18,745	22,452	41,197
2. Factories, plants, workshops, food canneries	5,230	1,526	6,756	3,449	3,047	6,496	2,964	2,778	5,742
3. Mine and mine mill buildings	—	—	—	33	5	38	—	—	—
4. Railway stations, offices, roadway buildings	14,134	11,625	25,759	11,045	11,023	22,068	10,093	11,761	21,854
5. Railway shops, engine houses, water and fuel stations	7,141	8,385	15,526	6,010	7,493	13,503	5,688	7,913	13,601
Commercial	76,378	15,675	92,053	50,403	15,349	65,752	61,825	17,650	79,475
6. Warehouses, storehouses, refrigerated storage, etc.	14,188	3,674	17,862	10,076	3,923	13,999	13,368	4,599	17,967
7. Grain elevators	4,021	3,862	7,883	3,483	4,658	8,141	7,409	5,443	12,852
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	68	11	79	—	2	2	—	—	—
9. Office buildings	51,966	4,011	55,977	32,579	4,187	36,766	30,630	4,996	35,626
10. Stores, retail and wholesale	52	8	60	48	—	48	—	—	—
11. Garages and service stations	6,083	4,109	10,192	4,217	2,579	6,796	10,418	2,612	13,030
12. Theatres, arenas, amusement and recreational buildings	—	—	—	—	—	—	—	—	—
13. Laundries and dry cleaning establishments	—	—	—	—	—	—	—	—	—
Institutional	—	—	—	—	—	—	—	—	—
14. Schools and other educational buildings	—	—	—	—	—	—	—	—	—
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	—	—	—	—	—	—	—	—	—
17. Other institutional buildings	—	—	—	—	—	—	—	—	—
Other building construction	102,174	20,521	122,695	84,172	16,563	100,735	73,096	17,842	90,938
18. Farm buildings (excluding dwellings)	—	—	—	—	—	—	—	—	—
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	56,460	8,159	64,619	53,299	9,549	62,848	56,284	10,240	66,524
20. Aeroplane hangars	23,545	1,685	25,230	14,167	219	14,386	3,096	267	3,363
21. Passenger terminals, bus, boat or air	16,207	446	16,653	13,555	5,251	18,806	7,512	5,672	13,186
22. Armouries, barracks, drill halls, etc.	—	1	1	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	825	7,284	8,109	185	46	231	110	66	176
24. Laboratories	—	—	—	—	—	—	—	—	—
25. Other building construction	5,137	2,946	8,083	2,966	1,498	4,464	6,094	1,597	7,692
Total engineering construction	1,839,872	317,687	2,157,559	2,165,796	344,651	2,510,447	2,298,715	371,764	2,670,479
Marine construction	34,774	4,953	39,727	19,960	4,933	24,893	56,508	6,806	63,314
26. Docks, wharves, piers, breakwaters	18,579	3,355	21,934	9,682	3,758	13,440	37,061	3,888	40,945
27. Retaining walls, embankments, ripraping	17	774	791	196	—	196	500	44	546
28. Canals and waterways	10,189	57	10,246	9,302	586	9,888	10,696	1,093	11,760
29. Dredging and pile driving	1,715	170	1,885	—	115	115	500	222	722
30. Dyke construction	—	—	—	—	—	—	152	1	133
31. Logging booms	—	—	—	—	1	1	—	—	—
32. Other marine construction	4,374	527	4,871	736	473	3,956	2,520	1,555	5,157

See footnote(s) on page 54.

TABLE 12. Total Value of Construction Work Performed—New and Repair by Type of Structure by Utilities, 1970-72^{1,6,10,11,12}—Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	3,994	776	4,770	3,673	1,021	4,694	6,663	1,890	8,553
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	2,042	643	2,685	3,051	983	4,034	5,552	1,845	7,397
34. Parking lots	1,510	82	1,592	575	37	612	1,111	45	1,156
36. Sidewalks, paths	2	12	14	—	1	1	—	—	—
37. Aerodromes, landing fields, runways, tarmac	440	39	479	47	—	47	—	—	—
Waterworks ^c and sewage systems	41,437	533	41,970	54,545	451	54,996	59,598	430	60,028
38. Tile drains, drainage ditches, storm sewers	342	16	358	170	131	301	11	140	151
39. Water mains, hydrants and services	7,246	337	7,583	18,123	196	18,319	16,945	210	17,155
40. Sewage systems and connections	28,060	38	28,098	28,146	57	28,203	35,500	23	35,523
41. Pumping stations, water	5,789	141	5,930	8,049	53	8,102	7,142	56	7,198
42. Water storage tanks	—	1	1	57	14	71	—	1	1
Dams and irrigation	544	12	556	2,776	—	2,776	1,650	15	1,665
43. Dams and reservoirs	544	12	556	2,776	—	2,776	1,650	15	1,665
44. Irrigation and land reclamation projects	—	—	—	—	—	—	—	—	—
Electric power construction	1,032,205	86,981	1,119,186	1,125,252	117,674	1,242,926	1,092,545	128,167	1,220,712
45. Electric power generating plants, including water conveying and controlling structures	581,963	22,541	604,504	634,205	45,254	679,459	565,278	48,518	613,796
46. Electric transformer stations ¹²	42	171	213	444	94	538	—	78	78
47. Power transmission and distribution lines, trolley wires	449,755	63,842	513,597	489,778	71,892	561,670	526,633	79,126	605,759
48. Street lighting	445	427	872	825	434	1,259	634	445	1,079
Railway, telephone and telegraph	365,594	189,411	555,005	409,874	188,417	598,291	430,823	200,776	631,599
49. Railway tracks and roadbed	130,361	115,124	245,485	146,168	113,346	259,514	130,297	116,569	246,866
50. Signals and interlockers	13,316	15,454	28,770	10,927	15,580	26,507	9,750	16,358	26,108
51. Telegraph and telephone lines, underground and marine cables	221,917	58,833	280,750	252,779	59,491	312,270	290,776	67,849	358,625
Gas and oil facilities	271,725	21,911	293,636	357,264	19,096	376,360	338,485	19,967	358,452
52. Gas mains and services	120,004	8,846	128,850	113,568	9,909	123,477	125,072	10,017	135,089
53. Pumping stations, oil	9,366	2,994	12,360	32,605	3,127	35,732	23,679	3,494	27,173
54. Pumping stations, gas	44,032	3,370	47,402	27,453	1,437	28,890	14,671	1,191	15,862
55. Oil storage tanks ¹⁰	1,357	155	1,512	4,868	121	4,989	6,280	330	6,610
56. Gas storage tanks	2,575	31	2,606	1,677	154	1,831	3,409	204	3,613
57. Oil pipe lines	16,411	4,892	21,303	14,901	3,397	18,298	40,219	3,921	44,140
58. Gas pipe lines ¹⁰	76,307	1,465	77,772	161,575	928	162,503	124,029	786	124,815
59. Oil and gas wells	1,652	158	1,810	617	23	640	1,126	24	1,150
61. Oil refinery—Processing units	—	—	—	—	—	—	—	—	—
62. Natural gas processing plants	21	—	21	—	—	—	—	—	—
Other engineering construction	89,599	13,110	102,709	192,452	13,059	205,511	312,443	13,713	326,156
63. Bridges, trestles, culverts, overpasses, viaducts	23,886	8,909	32,795	14,473	9,329	23,802	14,076	9,646	23,722
64. Tunnels and subways	38,937	778	39,715	36,700	76	36,776	36,435	173	36,608
65. Incinerators	6	—	6	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	5	29	34	3	25	28	3	30	33
67. Swimming pools, tennis courts, outdoor recreation facilities....	—	—	—	—	—	—	—	—	—
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	1,482	1,737	3,219	1,335	1,789	3,124	1,366	1,890	3,256
70. Other engineering construction ¹⁰	25,283	1,657	26,940	139,941	1,840	141,781	260,563	1,974	262,537

See footnote(s) on page 44.

TABLE 13. Total Value of Construction Work Performed — New and Repair by Type of Structure by Trade Finance and Commercial Services, 1970 - 72^{1,2,3}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	759,643	143,666	903,309	813,451	127,123	940,574	915,373	131,432	1,046,805
Total building construction	741,847	141,139	882,986	796,408	124,913	921,321	887,553	128,819	1,016,372
Residential	—	—	—	—	—	—	—	—	—
Industrial	10,497	1,448	11,945	9,654	2,029	11,683	20,431	1,720	22,151
2. Factories, plants, workshops, food canneries	10,497	1,448	11,945	9,636	2,027	11,663	20,431	1,720	22,151
3. Mine and mine mill buildings	—	—	—	—	—	—	—	—	—
4. Railway stations, offices, roadway buildings	—	—	—	18	2	20	—	—	—
5. Railway shops, engine houses, water and fuel stations	—	—	—	—	—	—	—	—	—
Commercial	718,235	139,195	857,430	781,751	122,360	904,111	860,288	126,335	986,623
6. Warehouses, storehouses, refrigerated storage, etc.	22,557	6,534	29,091	23,706	5,573	29,279	25,292	5,358	30,650
7. Grain elevators	54	—	54	—	—	—	—	—	—
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	72,708	14,892	87,600	120,791	15,778	136,569	159,370	17,218	176,588
9. Office buildings	313,442	36,385	349,827	317,704	32,351	350,055	301,501	32,323	333,824
10. Stores, retail and wholesale	218,161	52,037	270,198	235,843	43,085	278,928	272,192	46,038	318,230
11. Garages and service stations	57,574	23,840	81,414	50,046	19,135	69,181	63,588	19,440	83,028
12. Theatres, arenas, amusement and recreational buildings	31,949	4,326	36,275	32,161	5,167	37,328	37,130	4,719	41,849
13. Laundries and dry cleaning establishments	1,790	1,181	2,971	1,500	1,271	2,771	1,215	1,239	2,454
Institutional	10,713	70	10,783	565	29	594	1,000	6	1,006
14. Schools and other educational buildings	—	—	—	—	—	—	—	—	—
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	869	70	939	165	29	194	—	6	6
17. Other institutional buildings	9,844	—	9,844	400	—	400	1,000	—	1,000
Other building construction	2,402	426	2,828	4,438	495	4,933	5,834	758	6,592
18. Farm buildings (excluding dwellings)	4	6	10	—	1	1	—	3	3
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	—	—	—	—	—	—	—	—	—
20. Aeroplane hangars	49	2	51	—	—	—	—	—	—
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,520	118	1,638	1,467	137	1,604	1,548	235	1,783
24. Laboratories	375	219	594	517	92	609	1,003	126	1,129
25. Other building construction	454	81	535	2,454	265	2,719	3,283	394	3,677
Total engineering construction	17,796	2,527	20,323	17,043	2,210	19,253	27,820	2,613	30,433
Marine construction	92	15	107	17	—	17	10	—	10
26. Docks, wharves, piers, breakwaters	61	5	66	2	—	2	—	—	—
27. Retaining walls, embankments, ripraping	—	5	5	—	—	—	—	—	—
28. Canals and waterways	—	—	—	—	—	—	—	—	—
29. Dredging and pile driving	—	—	—	—	—	—	—	—	—
30. Dyke construction	31	5	36	—	—	—	—	—	—
31. Logging booms	—	—	—	—	—	—	—	—	—
32. Other marine construction	—	—	—	15	—	15	10	—	10

See footnote(s) on page 44.

TABLE 13. Total Value of Construction Work Performed—New and Repair by Type of Structure by Trade Finance and Commercial Services, 1970-72^{1,11} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	5,525	1,764	7,289	5,250	1,418	6,668	12,460	1,851	14,311
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	3,103	369	3,472	3,002	102	3,104	3,160	72	3,232
34. Parking lots	2,216	1,393	3,609	2,203	1,312	3,515	9,250	1,779	11,029
36. Sidewalks, paths	27	2	29	45	4	49	50	—	50
37. Aerodromes, landing fields, runways, tarmac	179	—	179	—	—	—	—	—	—
Waterworks and sewage systems	4,420	34	4,454	4,849	1	4,850	5,045	1	5,046
38. Tile drains, drainage ditches, storm sewers	1,807	22	1,829	1,211	1	1,212	1,592	1	1,593
39. Water mains, hydrants and services	1,446	3	1,449	1,058	—	1,058	989	—	989
40. Sewage systems and connections	1,166	9	1,175	2,560	—	2,560	2,434	—	2,434
41. Pumping stations, water	1	—	1	20	—	20	30	—	30
42. Water storage tanks	—	—	—	—	—	—	—	—	—
Dams and irrigation	—	—	—	40	—	40	—	—	—
43. Dams and reservoirs	—	—	—	40	—	40	—	—	—
44. Irrigation and land reclamation projects	—	—	—	—	—	—	—	—	—
Electric power construction	244	60	304	110	25	135	45	—	45
45. Electric power generating plants, including water conveying and controlling structures	—	47	47	—	—	—	—	—	—
46. Electric transformer stations	11	—	11	85	25	110	—	—	—
47. Power transmission and distribution lines, trolley wires	139	13	152	20	—	20	22	—	22
48. Street lighting	94	—	94	5	—	5	23	—	23
Railway, telephone and telegraph	24	1	25	86	—	86	112	—	112
49. Railway tracks and roadbed	24	1	25	—	—	—	13	—	13
50. Signals and interlockers	—	—	—	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables	—	—	—	86	—	86	99	—	99
Gas and oil facilities	4,848	594	5,442	5,442	702	6,144	7,805	739	8,544
52. Gas mains and services	—	—	—	—	2	2	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	3,279	432	3,711	5,397	665	6,062	7,585	701	8,286
56. Gas storage tanks	1,569	162	1,731	20	—	20	20	—	20
57. Oil pipe lines	—	—	—	25	35	60	200	38	238
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil and gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery — Processing units	—	—	—	—	—	—	—	—	—
62. Natural gas processing plants	—	—	—	—	—	—	—	—	—
Other engineering construction	2,643	59	2,702	1,249	64	1,313	2,343	22	2,365
63. Bridges, trestles, culverts, overpasses, viaducts	—	—	—	—	—	—	—	—	—
64. Tunnels and subways	367	—	367	—	—	—	—	—	—
65. Incinerators	—	—	—	2	—	2	—	—	—
66. Park systems, landscaping, sodding, etc.	419	26	445	548	45	593	385	13	398
67. Swimming pools, tennis courts, outdoor recreation facilities	875	1	876	326	15	341	420	—	420
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	519	32	551	88	—	88	172	4	176
70. Other engineering construction	463	—	463	285	4	289	1,366	5	1,371

See footnote(s) on page 44.

TABLE 14. Total Value of Construction Work Performed—New and Repair by Type of Structure by Federal Government Departments, 1970-72^{1,8,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	323,255	105,428	428,683	402,421	98,200	500,621	411,070	103,796	514,866
Total building construction	166,450	55,856	222,306	241,314	53,153	294,467	249,819	55,481	305,300
2. Factories, plants, workshops, food canneries	8,347	6,166	14,513	12,628	6,033	18,661	12,552	6,263	18,815
6. Warehouses, storehouses, refrigerated storage, etc.	1,695	3,169	4,864	2,449	3,060	5,509	2,472	3,159	5,631
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,078	1,633	2,711	1,484	1,560	3,044	1,490	1,617	3,107
9. Office buildings	68,755	18,041	86,796	98,299	16,893	115,192	103,098	17,557	120,655
10. Stores, retail and wholesale	509	164	673	741	151	892	762	157	919
11. Garages and service stations	3,966	1,020	4,986	6,093	1,029	7,122	6,211	1,045	7,256
12. Theatres, arenas, amusement and recreational buildings	1,554	1,217	2,771	2,190	1,175	3,365	2,165	1,195	3,360
14. Schools and other educational buildings	13,455	2,160	15,615	19,920	2,109	22,029	20,820	2,181	23,001
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	8,019	2,934	10,953	11,935	2,622	14,557	11,934	2,831	14,765
17. Other institutional buildings	12,458	635	13,093	17,837	678	18,515	18,343	680	19,023
18. Farm buildings (excluding dwellings)	1,849	468	2,317	2,523	440	2,963	2,665	466	3,131
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	1,193	344	1,537	1,879	318	2,197	1,894	336	2,230
20. Aeroplane hangars	780	1,045	1,825	1,219	966	2,185	1,220	1,029	2,249
21. Passenger terminals, bus, boat or air	10,448	63	10,511	14,454	50	14,504	15,335	53	15,388
22. Armouries, barracks, drill halls, etc.	6,487	6,507	12,994	9,864	6,079	15,943	9,725	6,423	16,148
24. Laboratories	11,533	2,188	13,721	17,507	2,131	19,638	18,446	2,204	20,650
25. Other building construction	14,324	8,102	22,426	20,292	7,859	28,151	20,687	8,285	28,972
Total engineering construction	156,805	49,572	206,377	161,107	45,047	206,154	161,251	48,315	209,566
26. Docks, wharves, piers, breakwaters	23,894	4,477	28,371	31,642	3,931	35,573	29,948	4,049	33,997
27. Retaining walls, embankments, riprapping	4,081	690	4,771	6,243	564	6,807	6,326	597	6,923
28. Canals and waterways	4,515	1,414	5,929	6,337	1,321	7,658	6,048	1,373	7,421
29. Dredging and pile driving	3,040	1,101	4,141	4,137	932	5,069	3,930	1,063	4,993
30. Dyke construction	714	64	778	990	69	1,059	1,086	67	1,153
32. Other marine construction	1,747	243	1,990	2,324	229	2,553	2,049	244	2,293
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	15,462	10,280	25,742	21,544	8,984	30,528	20,192	10,138	30,330
34. Parking lots	1,495	477	1,972	2,076	440	2,516	2,164	465	2,629
37. Aerodromes, landing fields, runways, tarmac	11,106	2,579	13,685	15,190	2,162	17,352	15,277	2,341	17,618
38. Tile drains, drainage ditches, storm sewers	1,142	239	1,381	1,598	228	1,826	1,748	238	1,986
39. Water mains, hydrants and services	4,937	1,496	6,433	7,225	1,374	8,599	6,954	1,455	8,409
40. Sewage systems and connections	4,019	971	4,990	6,314	948	7,262	6,386	999	7,385
43. Dams and reservoirs	6,494	2,184	8,678	9,638	1,836	11,474	9,506	2,016	11,522
44. Irrigation and land reclamation projects	568	998	1,566	942	871	1,813	933	998	1,931
45. Electric power generating plants, including water conveying and controlling structures	8,393	1,879	10,272	3,751	1,705	5,456	1,881	1,825	3,706
46. Electric transformer stations	389	104	493	8,230	91	8,321	14,123	101	14,224
47. Power transmission and distribution lines, trolley wires	44,135	1,260	45,395	3,383	1,246	4,629	3,447	1,301	4,748
55. Oil storage tanks	—	—	—	—	—	—	—	—	—
63. Bridges, trestles, culverts, overpasses, viaducts	3,622	391	4,013	5,030	373	5,403	4,971	396	5,367
66. Park systems, landscaping, sodding, etc.	2,339	2,262	4,601	3,345	2,158	5,503	3,495	2,306	5,801
67. Swimming pools, tennis courts, outdoor recreation facilities ...	811	364	1,175	1,150	347	1,497	1,025	368	1,393
69. Fences, snowsheds, signs, guard rails	637	301	938	895	277	1,172	900	295	1,195
70. Other engineering construction	13,265	15,798	29,063	19,123	14,961	34,084	18,862	15,680	34,542

See footnote(s) on page 44.

TABLE 15. Total Value of Construction Work Performed—New and Repair by Type of Structure by Provincial Government Departments, 1970-72¹¹

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	920,825	241,294	1,162,119	1,070,202	275,443	1,345,645	1,170,311	278,574	1,448,885
Total building construction	139,874	35,014	174,888	168,253	51,506	219,759	207,555	44,196	251,751
6. Warehouses, storehouses, refrigerated storage, etc.	5,664	1,589	7,253	9,041	3,161	12,202	10,553	3,104	13,657
9. Office buildings	48,243	13,798	62,041	50,146	15,098	65,244	53,013	13,549	66,562
10. Stores, retail and wholesale	—	76	76	—	—	—	—	—	—
17. Other institutional buildings	53,446	12,451	65,897	69,775	27,676	97,451	88,795	23,640	112,435
24. Laboratories	3,383	778	4,161	1,992	182	2,174	10,855	250	11,105
25. Other building construction	29,138	6,322	35,460	37,299	5,389	42,688	44,339	3,653	47,992
Total engineering construction	780,951	206,280	987,231	901,949	223,937	1,125,886	962,756	234,378	1,197,134
26. Docks, wharves, piers, breakwaters	641	855	1,496	967	717	1,684	2,573	806	3,379
27. Retaining walls, embankments, riprappling	9,720	12,860	22,580	10,693	12,825	23,518	13,257	12,832	26,089
32. Other marine construction	180	2	182	568	1,338	1,906	507	1,313	1,820
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	631,972	160,960	792,932	700,423	173,487	873,910	752,764	184,558	937,322
34. Parking lots	732	268	1,000	1,223	597	1,820	1,195	389	1,584
38. Tile drains, drainage ditches, storm sewers	3,704	2,908	6,612	5,247	3,310	8,557	4,176	2,460	6,636
39. Water mains, hydrants and services	4,097	128	4,225	9,245	570	9,815	7,617	708	8,325
40. Sewage systems and connections	3,136	114	3,250	4,141	1,176	5,317	5,804	265	6,069
43. Dams and reservoirs	5,358	365	5,723	13,234	219	13,453	11,849	170	12,019
44. Irrigation and land reclamation projects	7,367	245	7,612	4,348	830	5,178	1,614	717	2,331
47. Power transmission and distribution lines, trolley wires ...	546	69	615	—	—	—	205	—	205
51. Telegraph and telephone lines, underground and marine cables	1,386	105	1,491	223	1	224	—	1	1
63. Bridges, trestles, culverts, overpasses, viaducts	77,637	17,339	94,976	92,146	17,158	109,304	98,884	15,583	114,467
66. Park systems, landscaping, sodding, etc.	4,748	2,009	6,757	14,142	2,792	16,934	9,370	4,756	14,126
67. Swimming pools, tennis courts, outdoor recreation facilities	1,842	149	1,991	1,392	18	1,410	1,990	135	2,125
69. Fences, snowsheds, signs, guard rails	1,164	4,065	5,229	2,731	3,580	6,311	3,550	3,670	7,220
70. Other engineering construction	26,721	3,839	30,560	41,226	5,319	46,545	47,401	6,015	53,416

See footnote(s) on page 44.

TABLE 16. Total Value of Construction Work Performed—New and Repair by Type of Structure by Municipal Government Departments, 1970-72^{1,6,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	756,934	159,113	916,047	943,790	168,735	1,112,525	1,025,204	176,693	1,201,897
Total building construction	96,194	16,217	112,411	116,706	18,258	134,964	138,615	18,538	157,153
9. Office buildings	19,563	3,111	22,674	14,792	3,340	18,132	25,684	3,213	28,897
12. Theatres, arenas, amusement and recreational buildings	36,299	7,444	43,743	50,573	7,763	58,336	62,311	7,811	70,122
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	14,078	472	14,550	13,204	320	13,524	11,471	107	11,578
17. Other institutional buildings	11,096	1,948	13,044	19,326	3,078	22,404	15,440	3,125	18,565
24. Laboratories	—	—	—	—	—	—	—	—	—
25. Other building construction	15,158	3,242	18,400	18,811	3,757	22,568	23,709	4,282	27,991
Total engineering construction	660,740	142,896	803,636	827,084	150,477	977,561	886,589	158,155	1,044,744
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	257,196	67,748	324,944	301,586	71,298	372,884	316,995	73,257	390,252
34. Parking lots	—	—	—	—	—	—	—	—	—
36. Sidewalks, paths	13,405	6,163	19,568	16,488	6,695	23,183	17,860	6,382	24,242
40. Waterworks ⁶ and sewage systems	289,064	52,714	341,778	386,367	58,513	444,880	426,297	62,538	488,835
48. Street lighting	6,895	3,205	10,100	8,018	3,868	11,886	7,043	3,932	10,975
63. Bridges, trestles, culverts, overpasses, viaducts	43,027	2,890	45,917	41,325	2,372	43,697	37,970	2,197	40,167
70. Other engineering construction	51,153	10,176	61,329	73,300	7,731	81,031	80,424	9,849	90,273

See footnote(s) on page 44.

TABLE 17. Total Value of Construction Work Performed—New and Repair by Residential and Institutional Services, 1970-72^{1,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Residential:									
Total value of construction	3,137,800	870,700	4,008,500	3,928,600	899,400	4,828,000	4,254,000	929,700	5,183,700
Institutional:									
Total value of construction	1,094,988	104,658	1,199,646	1,180,234	117,014	1,297,248	1,129,254	130,950	1,260,204
Total building construction	1,082,177	104,313	1,186,490	1,168,042	116,649	1,284,691	1,115,366	130,667	1,246,033
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	—	104	104	200	—	200	900	—	900
9. Office buildings	—	29	29	—	20	20	1,000	61	1,061
12. Theatres, arenas, amusement and recreational buildings	600	36	636	166	10	176	—	15	15
14. Schools and other educational buildings	808,998	64,825	873,823	852,592	72,479	925,071	790,286	77,214	867,500
15. Churches and other religious buildings	22,189	6,738	28,927	12,184	6,799	18,983	17,537	6,568	24,105
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	207,190	29,050	236,240	237,385	33,436	270,821	261,727	43,590	305,317
17. Other institutional buildings	42,665	3,482	46,147	65,466	3,904	69,370	42,916	3,218	46,134
18. Farm buildings (excluding dwellings)	25	46	71	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	—	—	—	—	—	—	—	—	—
24. Laboratories	2	—	2	—	—	—	—	—	—
25. Other building construction	508	3	511	49	1	50	1,000	1	1,001
Total engineering construction	12,811	345	13,156	12,192	365	12,557	13,888	283	14,171

See footnote(s) on page 44.

TABLE 18. Total Value of Construction Work Performed — New and Repair by Type of Structure — Newfoundland, 1970-72^{1,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	368,101	46,998	415,099	496,491	42,724	539,215	548,678	45,998	594,676
Total building construction	86,868	36,722	123,590	196,908	29,854	226,762	243,499	31,717	275,216
Residential	47,900	17,000	64,900	69,300	17,600	86,900	79,400	18,100	97,500
Industrial	10,297	5,586	15,883	78,927	4,428	83,355	69,126	5,156	74,282
Commercial	8,499	3,749	12,248	8,488	3,160	11,648	15,185	3,584	18,769
Institutional	14,443	1,950	16,393	37,192	4,185	41,377	74,059	4,302	78,361
Other building construction	5,729	8,437	14,166	3,001	481	3,482	5,729	575	6,304
Total engineering construction	281,233	10,276	291,509	299,583	12,870	312,453	305,179	14,281	319,460
Marine construction	4,044	771	4,815	4,992	992	5,984	18,721	884	19,605
Road, highway and aerodrome construction	46,373	5,582	51,955	72,323	7,430	79,753	56,375	8,368	64,743
Waterworks and sewage systems	1,226	109	1,335	7,202	346	7,548	11,923	517	12,440
Dams and irrigation	200,250	1,218	201,468	139,599	1,703	141,302	91,292	2,055	93,347
Electric power construction									
Railway, telephone and telegraph	4,467	1,585	6,052	9,045	1,611	10,656	7,103	1,751	8,854
Gas and oil facilities	15,801	41	15,842	49,223	28	49,251	108,544	31	108,575
Other engineering construction	9,072	970	10,042	17,199	760	17,959	11,221	675	11,896

See footnote(s) on page 44.

TABLE 19. Total Value of Construction Work Performed — New and Repair by Type of Structure — Prince Edward Island, 1970-72^{1,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	34,247	11,414	45,661	47,897	9,491	57,388	56,827	10,289	67,116
Total building construction	20,742	7,513	28,255	33,653	6,449	40,102	39,814	6,982	46,796
Residential	13,100	4,400	17,500	23,900	4,600	28,500	25,900	4,800	30,700
Industrial	575	286	861	734	170	904	631	217	848
Commercial	2,783	1,044	3,827	2,597	561	3,158	2,472	608	3,080
Institutional	3,058	669	3,727	4,945	700	5,645	9,432	774	10,206
Other building construction	1,226	1,114	2,340	1,477	418	1,895	1,379	583	1,962
Total engineering construction	13,505	3,901	17,406	14,244	3,042	17,286	17,013	3,307	20,320
Marine construction	514	204	718	643	108	751	2,826	134	2,960
Road, highway and aerodrome construction	6,537	1,686	8,223	5,949	1,478	7,427	6,544	1,492	8,036
Waterworks and sewage systems	799	201	1,000	2,400	88	2,488	2,799	97	2,896
Dams and irrigation	75	95	170	313	29	342	32	42	74
Electric power construction	1,097	373	1,470	3,234	315	3,549	1,877	348	2,225
Railway, telephone and telegraph	739	237	976	864	237	1,101	843	266	1,109
Gas and oil facilities	2,962	7	2,969	196	57	253	221	63	284
Other engineering construction	782	1,098	1,880	645	730	1,375	1,871	865	2,736

See footnote(s) on page 44.

TABLE 20. Total Value of Construction Work Performed — New and Repair by Type of Structure — Nova Scotia, 1970-72^{1,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	402,916	81,793	484,709	376,673	89,338	466,011	437,240	89,224	526,464
Total building construction	217,255	53,343	270,598	214,993	50,698	265,691	227,480	53,015	280,495
Residential	105,000	31,900	136,900	120,100	32,900	153,000	140,300	33,900	174,200
Industrial	39,890	3,664	43,554	39,399	3,845	43,244	13,261	4,355	17,616
2. Factories, plants, workshops, food canneries	39,539	3,197	42,736	39,059	3,330	42,389	12,910	3,878	16,788
3. Mine and mine mill buildings	6	145	151	56	159	215	104	150	254
4. Railway stations, offices, roadway buildings	220	191	411	148	187	335	156	197	353
5. Railway shops, engine houses, water and fuel stations	125	131	256	136	169	305	91	130	221
Commercial	29,210	10,264	39,474	22,339	6,999	29,338	30,185	7,509	37,694
6. Warehouses, storehouses, refrigerated storage, etc.	1,504	933	2,437	1,333	952	2,285	485	992	1,477
7. Grain elevators	—	41	41	7	69	76	1	95	96
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	3,358	988	4,346	5,192	841	6,033	9,632	1,127	10,759
9. Office buildings	15,098	4,345	19,443	10,404	2,252	12,656	10,159	2,145	12,304
10. Stores, retail and wholesale	5,220	1,647	6,867	2,251	1,119	3,370	5,966	1,359	7,325
11. Garages and service stations	2,870	1,438	4,308	2,532	1,184	3,716	3,076	1,176	4,252
12. Theatres, arenas, amusement and recreational buildings	1,039	851	1,890	620	548	1,168	866	571	1,437
13. Laundries and dry cleaning establishments	121	21	142	—	34	34	—	44	44
Institutional	37,699	4,217	41,916	28,451	3,944	32,395	39,879	4,299	44,178
14. Schools and other educational buildings	32,742	2,591	35,333	21,950	2,187	24,137	30,507	2,109	32,616
15. Churches and other religious buildings	416	188	604	551	275	826	748	483	1,231
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	3,715	742	4,457	1,100	1,010	2,110	5,078	1,172	6,250
17. Other institutional buildings	826	696	1,522	4,850	472	5,322	3,546	535	4,081
Other building construction	5,456	3,298	8,754	4,704	3,010	7,714	3,855	2,952	6,807
18. Farm buildings (excluding dwellings)	1,397	838	2,235	1,025	619	1,644	940	571	1,511
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	1,311	306	1,617	278	138	416	374	132	506
20. Aeroplane hangars	158	42	200	138	54	192	117	43	160
21. Passenger terminals, bus, boat or air	105	18	123	142	18	160	145	17	162
22. Armouries, barracks, drill halls, etc.	515	764	1,279	668	828	1,496	543	797	1,340
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	505	1	506	21	20	41	18	26	44
24. Laboratories	136	60	196	176	75	251	245	76	321
25. Other building construction	1,329	1,269	2,598	2,256	1,258	3,514	1,473	1,290	2,763
Total engineering construction	185,661	28,450	214,111	161,680	38,640	200,320	209,760	36,209	245,969
Marine construction	21,046	1,598	22,644	9,393	2,347	11,740	6,598	2,113	8,711
26. Docks, wharves, piers, breakwaters	19,621	1,329	20,950	7,873	1,669	9,542	5,440	1,696	7,136
27. Retaining walls, embankments, ripraping	83	17	100	108	31	139	88	34	122
28. Canals and waterways	4	1	5	5	1	6	4	1	5
29. Dredging and pile driving	559	11	570	751	12	763	589	11	600
30. Dyke construction	17	64	81	22	141	163	18	67	85
31. Logging booms	—	—	—	—	—	—	—	—	—
32. Other marine construction	762	176	938	634	493	1,127	459	304	763

See footnote(s) on page 44.

TABLE 20. Total Value of Construction Work Performed—New and Repair by Type of Structure—Nova Scotia, 1970-72¹¹—Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	44,013	11,891	55,904	45,993	14,162	60,155	48,105	14,433	62,538
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	41,550	11,551	53,101	44,354	13,910	58,264	46,689	14,170	60,859
34. Parking lots	1,229	70	1,299	398	71	469	332	74	406
36. Sidewalks, paths	407	161	568	169	63	232	212	75	287
37. Aerodromes, landing fields, runways, tarmac	827	109	936	1,072	118	1,190	872	114	986
Waterworks and sewage systems	9,199	1,553	10,752	12,289	1,131	13,420	15,218	1,185	16,403
38. Tile drains, drainage ditches, storm sewers	1,513	248	1,761	1,285	164	1,449	715	240	955
39. Water mains, hydrants and services	1,178	462	1,640	2,785	527	3,312	2,616	531	3,147
40. Sewage systems and connections	5,376	376	5,752	7,900	309	8,209	11,774	268	12,042
41. Pumping stations, water	1,046	455	1,501	239	122	361	82	138	220
42. Water storage tanks	86	12	98	80	9	89	31	8	39
Dams and irrigation	1,384	115	1,499	1,466	91	1,557	1,184	96	1,280
43. Dams and reservoirs	1,217	6	1,223	1,343	9	1,352	1,064	20	1,084
44. Irrigation and land reclamation projects	167	109	276	123	82	205	120	76	196
Electric power construction	24,726	2,183	26,909	33,411	3,616	37,027	30,668	2,400	33,068
45. Electric power generating plants, including water conveying and controlling structures	4,659	279	4,938	15,120	1,069	16,189	9,024	707	9,731
46. Electric transformer stations	4,754	16	4,770	1	79	80	1	87	88
47. Power transmission and distribution lines, trolley wires	14,969	1,825	16,794	17,980	2,462	20,442	21,358	1,584	22,942
48. Street lighting	344	63	407	310	6	316	285	22	307
Railway, telephone and telegraph	8,041	3,870	11,911	8,415	3,940	12,355	10,727	4,205	14,932
49. Railway tracks and roadbed	2,144	2,217	4,361	1,814	2,083	3,897	2,080	2,125	4,205
50. Signals and interlockers	258	302	560	235	297	532	213	312	525
51. Telegraph and telephone lines, underground and marine cables	5,639	1,351	6,990	6,366	1,560	7,926	8,434	1,768	10,202
Gas and oil facilities	33,499	2,792	36,291	13,219	9,710	22,929	19,755	8,355	28,110
52. Gas mains and services	—	—	—	—	—	—	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	16,571	55	16,626	248	375	623	313	420	733
56. Gas storage tanks	—	1	1	—	—	—	—	—	—
57. Oil pipe lines	—	3	3	—	104	104	—	—	—
58. Gas pipe lines	—	7	7	—	7	7	—	5	5
59. Oil and gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery—Processing units	16,928	2,726	19,654	12,971	9,224	22,105	19,442	7,930	27,372
62. Natural gas processing plants	—	—	—	—	—	—	—	—	—
Other engineering construction	43,753	4,448	48,201	37,494	3,643	41,137	77,505	3,422	80,927
63. Bridges, trestles, culverts, overpasses, viaducts	13,054	1,465	14,519	12,612	299	12,911	11,652	233	11,885
64. Tunnels and subways	—	8	8	—	9	9	—	8	8
65. Incinerators	14	295	309	17	415	432	1	354	355
66. Park systems, landscaping, sodding, etc.	89	96	185	759	149	908	1,341	203	1,544
67. Swimming pools, tennis courts, outdoor recreation facilities ...	410	82	492	794	119	913	652	128	780
68. Mine shafts and other below surface workings	2,382	10	2,392	3,844	12	3,856	9,697	9	9,706
69. Fences, snowsheds, signs, guard rails	346	226	572	307	259	566	273	249	522
70. Other engineering construction	27,458	2,266	29,724	19,161	2,381	21,542	53,889	2,238	56,127

See footnote(s) on page 44.

TABLE 21. Total Value of Construction Work Performed—New and Repair by Type of Structure—New Brunswick, 1970-72^{1,2,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	273,743	66,155	339,898	281,001	68,847	349,848	317,377	73,482	390,859
Total building construction	158,888	38,131	197,019	161,766	39,422	201,188	167,919	41,448	209,367
Residential	62,600	23,800	86,400	81,400	24,200	105,600	98,700	24,700	123,400
Industrial	26,974	2,561	29,535	24,351	1,938	26,289	12,172	2,438	14,610
2. Factories, plants, workshops, food canneries	25,114	1,775	26,889	22,946	1,419	24,365	10,731	1,890	12,621
3. Mine and mine mill buildings	746	66	812	856	45	901	905	43	948
4. Railway stations, offices, roadway buildings	884	437	1,321	347	293	640	342	312	654
5. Railway shops, engine houses, water and fuel stations	230	283	513	202	181	383	194	193	387
Commercial	21,589	5,517	27,106	23,425	7,216	30,641	17,028	7,423	24,451
6. Warehouses, storehouses, refrigerated storage, etc.	1,356	1,106	2,462	2,178	1,220	3,398	2,722	1,200	3,922
7. Grain elevators	18	20	38	2	77	79	2	60	62
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	804	200	1,004	3,369	231	3,600	2,240	255	2,495
9. Office buildings	9,354	1,252	10,606	7,982	3,125	11,107	5,001	3,510	8,511
10. Stores, retail and wholesale	6,849	1,320	8,169	5,265	1,066	6,331	4,043	892	4,935
11. Garages and service stations	2,308	1,277	3,585	2,728	1,193	3,921	2,182	1,198	3,380
12. Theatres, arenas, amusement and recreational buildings	851	328	1,179	1,901	262	2,163	838	252	1,090
13. Laundries and dry cleaning establishments	49	14	63	—	42	42	—	56	56
Institutional	43,741	4,038	47,779	27,449	4,183	31,632	35,266	4,864	40,130
14. Schools and other educational buildings	35,055	2,294	37,349	19,209	2,042	21,251	18,407	2,638	21,045
15. Churches and other religious buildings	1,015	345	1,360	310	818	1,128	345	599	944
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	5,364	1,193	6,557	5,584	1,162	6,746	14,291	1,529	15,820
17. Other institutional buildings	2,307	206	2,513	2,346	161	2,507	2,223	98	2,321
Other building construction	3,984	2,215	6,199	5,141	1,885	7,026	4,753	2,023	6,776
18. Farm buildings (excluding dwellings)	1,577	962	2,539	1,611	928	2,539	1,473	870	2,343
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	1,350	191	1,541	1,271	243	1,514	1,711	277	1,988
20. Aeroplane hangars	91	16	107	127	14	141	86	15	101
21. Passenger terminals, bus, boat or air	—	—	—	10	—	10	—	—	—
22. Armouries, barracks, drill halls, etc.	142	460	602	178	391	569	134	415	549
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	186	238	424	285	78	363	118	204	322
24. Laboratories	96	79	175	120	67	187	90	71	161
25. Other building construction	542	269	811	1,539	164	1,703	1,141	171	1,312
Total engineering construction	114,855	28,024	142,879	119,235	29,425	148,660	149,458	32,034	181,492
Marine construction	10,875	1,121	11,996	8,093	1,037	9,130	21,925	1,059	22,984
26. Docks, wharves, piers, breakwaters	10,292	738	11,030	7,189	865	8,054	21,246	869	22,115
27. Retaining walls, embankments, ripraping	5	86	91	54	13	67	10	20	30
28. Canals and waterways	—	—	—	—	—	—	—	—	—
29. Dredging and pile driving	578	284	862	690	153	843	517	163	680
30. Dyke construction	—	—	—	—	—	—	152	—	152
31. Logging booms	—	13	13	—	6	6	—	7	7
32. Other marine construction	—	—	—	160	—	160	—	—	—

See footnote(s) on page 44.

TABLE 21. Total Value of Construction Work Performed — New and Repair by Type of Structure — New Brunswick, 1970-72^{10,11} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	38,103	12,584	50,687	33,402	14,258	47,660	52,913	15,911	68,824
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	37,213	12,388	49,601	32,431	14,121	46,552	51,650	15,791	67,441
34. Parking lots	144	65	209	107	31	138	468	38	506
36. Sidewalks, paths	299	63	362	303	44	347	374	16	390
37. Aerodromes, landing fields, runways, tarmac	447	68	515	561	62	623	421	66	487
Waterworks and sewage systems	7,606	1,604	9,210	9,523	1,250	10,773	11,636	1,088	12,724
38. Tile drains, drainage ditches, storm sewers	512	179	691	703	559	1,262	282	145	427
39. Water mains, hydrants and services	2,516	666	3,182	2,954	390	3,344	1,394	360	1,754
40. Sewage systems and connections	3,713	642	4,355	5,247	272	5,519	9,864	553	10,417
41. Pumping stations, water	469	100	569	143	9	152	77	16	93
42. Water storage tanks	396	17	413	476	20	496	19	14	33
Dams and irrigation	414	414	828	5,862	355	6,217	1,682	342	2,024
43. Dams and reservoirs	175	299	474	5,600	244	5,844	1,389	238	1,627
44. Irrigation and land reclamation projects	239	115	354	262	111	373	293	104	397
Electric power construction	18,235	1,584	19,819	12,276	1,549	13,825	22,122	1,917	24,039
45. Electric power generating plants, including water conveying and controlling structures	10,236	212	10,448	2,689	787	3,476	11,174	1,128	12,302
46. Electric transformer stations	—	2	2	—	—	—	—	—	—
47. Power transmission and distribution lines, trolley wires	7,813	1,328	9,141	9,483	666	10,149	10,906	719	11,625
48. Street lighting	186	42	228	104	96	200	42	70	112
Railway, telephone and telegraph	10,166	6,535	16,701	10,041	7,070	17,111	12,587	7,454	20,041
49. Railway tracks and roadbed	4,163	4,708	8,871	3,666	4,954	8,620	3,564	5,151	8,715
50. Signals and interlockers	452	650	1,102	475	729	1,204	428	760	1,188
51. Telegraph and telephone lines, underground and marine cables	5,551	1,177	6,728	5,900	1,387	7,287	8,595	1,543	10,138
Gas and oil facilities	353	529	882	4,569	890	5,459	2,583	1,102	3,685
52. Gas mains and services	2	2	4	5	—	5	5	—	5
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks ¹⁰	237	21	258	4,418	93	4,511	2,574	102	2,676
56. Gas storage tanks	—	—	—	—	—	—	—	—	—
57. Oil pipe lines	—	—	—	—	—	—	—	—	—
58. Gas pipe lines	—	—	—	20	—	20	4	—	4
59. Oil and gas wells	114	—	114	126	—	126	—	—	—
61. Oil refinery — Processing units ¹⁰	—	506	506	—	797	797	—	1,000	1,000
62. Natural gas processing plants	—	—	—	—	—	—	—	—	—
Other engineering construction	29,103	3,653	32,756	35,469	3,016	38,485	24,010	3,161	27,171
63. Bridges, trestles, culverts, overpasses, viaducts	15,123	2,295	17,418	9,960	1,751	11,711	8,616	1,906	10,522
64. Tunnels and subways	2	1	3	2	1	3	2	1	3
65. Incinerators	—	3	3	—	10	10	—	17	17
66. Park systems, landscaping, sodding, etc.	183	335	518	1,380	313	1,693	302	302	604
67. Swimming pools, tennis courts, outdoor recreation facilities	486	19	505	243	21	264	289	18	307
68. Mine shafts and other below surface workings	6,300	51	6,351	5,954	56	6,010	3,602	19	3,621
69. Fences, snowsheds, signs, guard rails	320	237	557	311	245	556	274	239	513
70. Other engineering construction ¹⁰	6,689	712	7,401	17,619	619	18,238	10,925	659	11,584

See footnote(s) on page 44.

TABLE 22. Total Value of Construction Work Performed—New and Repair by Type of Structure—Quebec, 1970-72⁽¹⁾

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	2,192,704	595,829	2,788,533	2,670,416	582,173	3,252,589	2,913,614	603,774	3,517,388
Total building construction	1,399,465	361,002	1,760,467	1,679,689	353,165	2,032,854	1,835,356	363,568	2,198,924
Residential	677,700	191,900	869,600	846,900	197,800	1,044,700	949,500	203,400	1,152,900
Industrial	113,534	47,732	161,266	160,364	45,012	205,376	214,875	45,507	260,382
2. Factories, plants, workshops, food canneries	92,873	40,824	133,697	104,595	39,537	144,132	113,338	39,775	153,113
3. Mine and mine mill buildings	15,359	2,353	17,712	54,020	2,835	56,855	100,004	2,895	102,899
4. Railway stations, offices, roadway buildings	4,490	2,397	6,877	1,072	1,586	2,658	981	1,761	2,742
5. Railway shops, engine houses, water and fuel stations	812	2,168	2,980	677	1,054	1,731	552	1,076	1,628
Commercial	187,205	61,809	249,014	207,076	46,036	253,112	267,750	48,575	316,325
6. Warehouses, storehouses, refrigerated storage, etc.	12,938	3,500	16,438	12,944	3,522	16,466	15,770	3,160	18,930
7. Grain elevators	23	420	443	137	370	507	704	406	1,110
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	8,761	3,818	12,579	11,519	3,443	14,962	34,480	3,738	38,218
9. Office buildings	91,421	20,638	112,059	103,889	16,487	120,376	117,871	17,403	135,274
10. Stores, retail and wholesale	32,083	17,056	49,139	37,341	9,805	47,146	48,744	11,188	59,932
11. Garages and service stations	21,385	9,861	31,246	16,117	5,977	22,094	25,559	6,177	31,736
12. Theatres, arenas, amusement and recreational buildings	20,298	6,202	26,500	24,704	6,237	30,941	24,385	6,308	30,693
13. Laundries and dry cleaning establishments	296	314	610	425	195	620	237	195	432
Institutional	328,764	38,019	366,783	386,860	43,557	430,417	336,023	44,301	380,324
14. Schools and other educational buildings	218,709	19,423	238,132	271,629	24,606	296,235	217,073	25,129	242,202
15. Churches and other religious buildings	4,075	1,183	5,258	1,464	1,906	3,370	5,397	2,143	7,540
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	60,131	9,662	69,793	54,213	8,798	63,011	57,442	9,612	67,054
17. Other institutional buildings	45,849	7,751	53,600	59,554	8,247	67,801	56,111	7,417	63,528
Other building construction	92,262	21,542	113,804	78,489	20,760	99,249	67,208	21,785	88,993
18. Farm buildings (excluding dwellings)	32,718	10,254	42,972	28,015	8,748	36,763	28,847	9,032	37,879
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	26,017	1,881	27,898	15,858	2,117	17,975	8,118	2,313	10,431
20. Aeroplane hangars	7,140	600	7,740	5,050	99	5,149	1,643	109	1,752
21. Passenger terminals, bus, boat or air	7,280	98	7,378	4,521	4,633	9,154	3,307	5,029	8,336
22. Armouries, barracks, drill halls, etc.	3,608	1,280	4,888	5,578	997	6,575	5,667	1,081	6,748
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	868	844	1,712	1,887	624	2,511	513	530	1,043
24. Laboratories	1,806	276	2,082	2,682	188	2,870	2,666	173	2,839
25. Other building construction	12,825	6,309	19,134	14,898	3,354	18,252	16,447	3,518	19,965
Total engineering construction	793,239	234,827	1,028,066	990,727	229,008	1,219,735	1,078,258	240,206	1,318,464
Marine construction	37,393	16,712	54,105	47,841	16,024	63,865	52,557	16,794	69,351
26. Docks, wharves, piers, breakwaters	12,353	1,900	14,253	19,122	1,660	20,782	22,284	1,625	23,909
27. Retaining walls, embankments, ripraping	12,461	13,219	25,680	15,279	13,079	28,358	15,903	13,138	29,041
28. Canals and waterways	10,450	923	11,373	11,485	662	12,147	11,943	752	12,695
29. Dredging and pile driving	1,856	186	2,042	904	105	1,009	919	155	1,074
30. Dyke construction	21	38	59	247	2	249	13	3	16
31. Logging booms	153	137	290	344	162	506	191	172	363
32. Other marine construction	99	309	408	460	354	814	1,304	949	2,253

See footnote(s) on page 44.

TABLE 22. Total Value of Construction Work Performed — New and Repair by Type of Structure — Quebec, 1970-72^{1,11} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	207,807	84,127	291,934	241,899*	83,446	325,345	259,776	85,151	344,927
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	203,321	79,479	282,800	235,656	79,072	314,728	251,828	80,325	332,153
34. Parking lots	743	535	1,278	1,320	441	1,761	2,543	750	3,293
36. Sidewalks, paths	2,831	2,959	5,790	3,646	3,017	6,663	4,108	3,099	7,207
37. Aerodromes, landing fields, runways, tarmac	912	1,154	2,066	1,277	916	2,193	1,297	977	2,274
Waterworks and sewage systems	92,077	34,511	126,588	116,718	34,303	151,021	132,389	35,259	167,648
38. Tile drains, drainage ditches, storm sewers	3,514	3,285	6,799	3,030	3,109	6,139	3,151	3,159	6,310
39. Water mains, hydrants and services	19,446	20,740	40,186	24,812	20,736	45,548	27,617	21,353	48,970
40. Sewage systems and connections	62,877	8,876	71,753	81,514	8,929	90,443	93,393	9,213	102,606
41. Pumping stations, water	5,647	1,363	7,010	6,931	1,367	8,298	7,791	1,372	9,163
42. Water storage tanks	593	247	840	431	162	593	437	162	599
Dams and irrigation	5,764	1,401	7,165	5,744	1,185	6,929	5,893	1,242	7,135
43. Dams and reservoirs	1,813	158	1,971	2,353	119	2,472	2,395	142	2,537
44. Irrigation and land reclamation projects	3,951	1,243	5,194	3,391	1,066	4,457	3,498	1,100	4,598
Electric power construction	217,219	21,801	239,020	281,139	21,683	302,822	259,941	24,685	284,626
45. Electric power generating plants, including water conveying and controlling structures	68,577	6,832	75,409	113,337	7,322	120,659	80,889	8,836	89,725
46. Electric transformer stations	476	181	657	331	90	421	110	105	215
47. Power transmission and distribution lines, trolley wires	147,575	13,325	160,900	166,134	12,812	178,946	177,819	14,255	192,074
48. Street lighting	591	1,463	2,054	1,337	1,459	2,796	1,123	1,489	2,612
Railway, telephone and telegraph	59,655	39,388	99,043	66,705	38,800	105,505	76,445	40,512	116,957
49. Railway tracks and roadbed	10,781	21,132	31,913	12,931	19,086	32,017	9,389	18,230	27,619
50. Signals and interlockers	1,364	2,644	4,008	1,200	2,309	3,509	1,074	2,394	3,468
51. Telegraph and telephone lines, underground and marine cables	47,510	15,612	63,122	52,574	17,405	69,979	65,982	19,888	85,870
Gas and oil facilities	67,814	18,604	86,418	70,620	17,558	88,178	80,744	19,868	100,612
52. Gas mains and services	3,189	1,007	4,196	7,781	1,427	9,208	13,075	1,139	14,214
53. Pumping stations, oil	152	40	192	—	59	59	60	66	126
54. Pumping stations, gas	193	53	246	—	1	1	—	1	1
55. Oil storage tanks	6,749	1,590	8,339	6,977	1,074	8,051	6,212	1,097	7,309
56. Gas storage tanks	1,646	27	1,673	1,338	120	1,458	2,059	169	2,228
57. Oil pipe lines	1,537	1,142	2,679	1,356	1,025	2,381	4,618	1,163	5,781
58. Gas pipe lines	115	5	120	255	2	257	—	—	—
59. Oil and gas wells	1,187	—	1,187	7,052	43	7,095	8,948	82	9,030
61. Oil refinery — Processing units	53,046	14,739	67,785	45,861	13,807	59,668	45,760	16,141	61,901
62. Natural gas processing plants	—	1	1	—	—	—	12	10	22
Other engineering construction	105,510	18,283	123,793	160,061	16,009	176,070	210,513	16,695	227,208
63. Bridges, trestles, culverts, overpasses, viaducts	26,194	6,056	32,250	29,538	5,796	35,334	31,162	5,981	37,143
64. Tunnels and subways	511	1,157	1,668	1	458	459	—	551	551
65. Incinerators	11	—	11	17	—	17	17	—	17
66. Park systems, landscaping, sodding, etc.	1,123	420	1,543	1,431	361	1,792	1,479	379	1,858
67. Swimming pools, tennis courts, outdoor recreation facilities	43	71	114	59	62	121	80	62	142
68. Mine shafts and other below surface workings	37,335	918	38,253	26,859	613	27,472	21,529	614	22,143
69. Fences, snowsheds, signs, guard rails	5,426	5,101	10,527	4,574	4,751	9,325	4,848	4,817	9,665
70. Other engineering construction	34,867	4,560	39,427	97,582	3,968	101,550	151,398	4,291	155,689

See footnote(s) on page 44.

TABLE 23. Total Value of Construction Work Performed - New and Repair by Type of Structure - Ontario, 1970-72^{1,2,3}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	4,127,041	857,824	4,984,865	4,707,969	915,630	5,623,599	4,798,918	959,914	5,758,832
Total building construction	2,826,611	597,762	3,424,373	3,086,838	627,062	3,713,900	3,089,760	649,495	3,739,255
Residential	1,287,300	341,900	1,629,200	1,605,000	353,200	1,958,200	1,689,200	364,500	2,053,700
Industrial	413,608	97,580	511,188	277,226	99,524	376,750	239,887	102,260	342,147
2. Factories, plants, workshops, food canneries	376,106	75,624	451,730	234,354	76,238	310,592	201,265	78,513	279,778
3. Miné and mine mill buildings	31,204	15,125	46,329	38,069	16,600	54,669	33,854	16,489	50,343
4. Railway stations, offices, roadway buildings	4,010	4,143	8,153	3,152	4,021	7,173	3,038	4,339	7,377
5. Railway shops, engine houses, water and fuel stations	2,288	2,688	4,976	1,651	2,665	4,316	1,730	2,919	4,649
Commercial	505,902	83,061	588,963	554,935	78,932	633,867	549,027	80,719	629,746
6. Warehouses, storehouses, refrigerated storage, etc.	27,222	7,028	34,250	27,392	8,199	35,591	29,881	8,270	38,151
7. Grain elevators	96	195	291	130	374	504	881	498	1,379
8. Hotels, clubs., restaurants, cafeterias, tourist cabins	31,031	5,713	36,744	82,453	6,465	88,918	61,147	6,804	67,951
9. Office buildings	285,969	36,845	322,814	286,149	33,279	319,428	257,437	33,316	290,753
10. Stores, retail and wholesale	105,305	17,971	123,276	100,037	15,517	115,554	120,195	16,361	136,556
11. Garages and service stations	27,720	11,251	38,971	25,450	10,536	35,986	31,980	10,588	42,568
12. Theatres, arenas, amusement and recreational buildings	28,059	3,584	31,643	32,749	3,826	36,575	47,117	4,179	51,296
13. Laundries and dry cleaning establishments	500	474	974	575	736	1,311	389	703	1,092
Institutional	492,928	37,470	530,398	511,034	57,429	568,463	472,557	64,017	536,574
14. Schools and other educational buildings	327,158	22,143	349,301	320,416	24,064	344,480	300,200	26,618	326,818
15. Churches and other religious buildings	8,833	2,738	11,571	3,974	2,309	6,283	4,667	2,074	6,741
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	107,206	9,157	116,363	134,909	16,174	151,083	108,774	22,483	131,257
17. Other institutional buildings	49,731	3,432	53,163	51,735	14,882	66,617	58,916	12,842	71,758
Other building construction	126,873	37,751	164,624	138,643	37,977	176,620	139,089	37,999	177,088
18. Farm buildings (excluding dwellings)	46,557	24,633	71,190	48,244	25,280	73,524	47,583	24,772	72,355
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	18,524	3,082	21,606	23,632	3,498	27,130	24,374	3,845	28,219
20. Aeroplane hangars	10,609	1,182	11,791	6,573	379	6,952	1,182	381	1,563
21. Passenger terminals, bus, boat or air	16,320	297	16,617	16,582	153	16,735	15,218	138	15,356
22. Armouries, harracks, drill halls, etc.	295	1,734	2,029	409	1,956	2,365	452	1,957	2,409
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	2,557	599	3,156	1,788	573	2,361	357	574	931
24. Laboratories	9,609	1,809	11,418	10,174	1,563	11,737	17,326	1,567	18,893
25. Other building construction	22,402	4,415	26,817	31,241	4,575	35,816	32,597	4,765	37,362
Total engineering construction	1,300,430	260,062	1,560,492	1,621,131	288,568	1,909,699	1,709,158	310,419	2,019,577
Marine construction	22,387	2,941	25,328	15,476	4,295	19,771	20,831	5,164	25,995
26. Docks, wharves, piers, breakwaters	1,546	907	2,453	1,428	1,343	2,771	4,299	1,180	5,479
27. Retaining walls, embankments, ripraping	4,323	892	5,215	1,352	228	1,580	2,168	299	2,467
28. Canals and waterways	10,737	632	11,369	10,474	1,225	11,699	11,799	1,745	13,544
29. Dredging and pile driving	749	155	904	962	72	1,034	1,212	51	1,263
30. Dyke construction	827	9	836	980	4	984	1,084	5	1,089
31. Logging booms	—	54	54	26	31	57	—	40	40
32. Other marine construction	4,205	292	4,497	254	1,392	1,646	269	1,844	2,113

See footnote(s) on page 44.

TABLE 23. Total Value of Construction Work Performed - New and Repair by Type of Structure - Ontario, 1970 - 72^{1,10,11} - Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	329,529	60,415	389,944	363,581	66,312	429,893	385,515	67,348	452,863
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	314,579	56,520	371,099	345,498	62,234	407,732	361,871	63,097	424,968
34. Parking lots	5,253	1,756	7,009	4,510	1,731	6,241	9,670	1,856	11,526
36. Sidewalks, paths	4,697	1,978	6,675	6,274	2,156	8,430	6,559	2,212	8,771
37. Aerodromes, landing fields, runways, tarmac	5,000	161	5,161	7,299	191	7,490	7,415	183	7,598
Waterworks and sewage systems	186,962	20,953	207,915	229,499	24,116	253,615	244,725	25,049	269,774
38. Tile drains, drainage ditches, storm sewers	39,730	5,237	44,967	53,111	5,336	58,447	53,818	5,821	59,639
39. Water mains, hydrants and services	35,638	7,496	43,134	46,660	10,030	56,690	55,810	9,037	64,847
40. Sewage systems and connections	100,853	6,295	107,148	111,267	6,763	118,030	118,563	8,070	126,633
41. Pumping stations, water	9,640	1,443	11,083	16,668	1,323	17,991	14,004	1,525	15,529
42. Water storage tanks	1,101	482	1,583	1,793	664	2,457	2,530	596	3,126
Dams and irrigation	12,939	3,359	16,298	19,107	3,458	22,565	18,861	3,670	22,531
43. Dams and reservoirs	3,516	364	3,880	13,318	366	13,684	13,081	641	13,722
44. Irrigation and land reclamation projects	9,423	2,995	12,418	5,789	3,092	8,881	5,780	3,029	8,809
Electric power construction	302,481	50,615	353,096	340,073	73,434	413,507	369,800	80,877	450,677
45. Electric power generating plants, including water conveying and controlling structures	160,679	11,486	172,165	184,996	31,065	216,061	186,342	32,728	219,070
46. Electric transformer stations	2,318	251	2,569	1,888	190	2,078	2,712	281	2,993
47. Power transmission and distribution lines, trolley wires	135,532	37,125	172,657	148,077	40,159	188,236	176,145	45,888	222,033
48. Street lighting	3,952	1,753	5,705	5,112	2,020	7,132	4,601	1,980	6,581
Railway, telephone and telegraph	133,719	65,669	199,388	138,390	65,237	203,627	149,275	70,060	219,335
49. Railway tracks and roadbed	38,997	37,767	76,764	34,797	36,037	70,834	29,235	37,740	66,975
50. Signals and interlockers	4,190	5,802	9,992	4,183	5,171	9,354	3,729	5,521	9,250
51. Telegraph and telephone lines, underground and marine cables	90,532	22,100	112,632	99,410	24,029	123,439	116,311	26,799	143,110
Gas and oil facilities	78,956	26,090	105,046	132,227	24,247	156,474	121,493	30,064	151,557
52. Gas mains and services	33,269	3,590	36,859	48,945	4,040	52,985	46,127	4,167	50,294
53. Pumping stations, oil	1,452	691	2,143	5,575	683	6,258	1,420	872	2,292
54. Pumping stations, gas	2,480	202	2,682	8	205	213	40	—	40
55. Oil storage tanks	1,734	970	2,704	3,298	973	4,271	2,920	981	3,901
56. Gas storage tanks	996	329	1,325	22	5	27	50	6	56
57. Oil pipe lines	2,147	1,099	3,246	8,606	805	9,411	2,315	920	3,235
58. Gas pipe lines ¹⁰	9,111	514	9,625	3,809	435	4,244	12,600	318	12,918
59. Oil and gas wells	3,967	761	4,728	4,478	2,140	6,618	3,213	2,260	5,473
61. Oil refinery - Processing units	15,738	17,722	33,460	47,442	14,651	62,093	48,824	19,998	68,822
62. Natural gas processing plants	8,062	212	8,274	10,044	310	10,354	3,984	542	4,526
Other engineering construction	233,457	30,020	263,477	382,778	27,469	410,247	398,658	28,187	426,845
63. Bridges, trestles, culverts, overpasses, viaducts	40,281	6,973	47,254	43,897	7,366	51,263	38,209	7,409	45,618
64. Tunnels and subways	43,950	106	44,056	42,766	217	42,983	44,379	318	44,697
65. Incinerators	3,177	859	4,036	3,451	302	3,753	4,752	335	5,087
66. Park systems, landscaping, sodding, etc.	6,502	1,787	8,289	14,717	1,842	16,559	15,875	2,075	17,950
67. Swimming pools, tennis courts, outdoor recreation facilities	7,600	426	8,026	3,826	208	4,034	6,678	203	6,881
68. Mine shafts and other below surface workings	84,076	288	84,364	83,069	749	83,818	78,731	742	79,473
69. Fences, snowsheds, signs, guard rails	9,899	4,389	14,288	8,184	4,553	12,737	7,843	4,522	12,365
70. Other engineering construction ¹⁰	37,972	15,192	53,164	182,868	12,232	195,100	202,191	12,583	214,774

See footnote(s) on page 44.

TABLE 24. Total Value of Construction Work Performed—New and Repair by Type of Structure—Manitoba, 1970-72^{1,11}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	574,766	120,344	695,110	577,475	119,987	697,462	637,479	126,416	763,895
Total building construction	304,743	70,810	375,553	303,525	71,939	375,464	328,109	77,616	405,725
Residential	139,300	44,300	183,600	170,600	45,800	216,400	171,000	47,400	218,400
Industrial	39,443	7,897	47,340	19,078	6,686	25,764	26,195	6,688	32,883
2. Factories, plants, workshops, food canneries	32,840	4,670	37,510	15,997	4,060	20,057	18,825	4,098	22,923
3. Mine and mine mill buildings	5,009	884	5,893	1,506	523	2,029	5,929	382	6,311
4. Railway stations, offices, roadway buildings	1,005	1,270	2,275	1,033	1,265	2,298	935	1,342	2,277
5. Railway shops, engine houses, water and fuel stations	589	1,073	1,662	542	838	1,380	506	866	1,372
Commercial	53,850	8,529	62,379	34,750	8,409	43,159	49,745	9,638	59,383
6. Warehouses, storehouses, refrigerated storage, etc.	3,822	853	4,675	1,532	577	2,109	1,945	928	2,873
7. Grain elevators	505	440	945	437	385	822	623	467	1,090
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	10,471	830	11,301	3,397	1,080	4,477	11,780	984	12,764
9. Office buildings	18,778	2,352	21,130	12,582	2,752	15,334	18,153	3,430	21,583
10. Stores, retail and wholesale	14,184	2,392	16,576	9,684	1,796	11,480	10,553	2,237	12,790
11. Garages and service stations	3,575	1,208	4,783	3,075	1,208	4,283	3,531	1,102	4,633
12. Theatres, arenas, amusement and recreational buildings	2,491	392	2,883	3,841	591	4,432	3,057	460	3,517
13. Laundries and dry cleaning establishments	24	62	86	202	20	222	103	30	133
Institutional	56,380	4,097	60,477	61,801	5,013	66,814	62,101	7,993	70,094
14. Schools and other educational buildings	38,194	2,384	40,578	34,630	2,727	37,357	33,367	3,917	37,284
15. Churches and other religious buildings	1,299	420	1,719	1,406	226	1,632	1,314	199	1,513
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	9,984	1,029	11,013	8,967	1,565	10,532	17,927	3,035	20,962
17. Other institutional buildings	6,903	264	7,167	16,798	495	17,293	9,493	842	10,335
Other building construction	15,770	5,987	21,757	17,296	6,031	23,327	19,068	5,897	24,965
18. Farm buildings (excluding dwellings)	10,181	3,379	13,560	11,376	3,778	15,154	10,595	3,515	14,110
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	1,093	608	1,701	672	529	1,201	2,185	532	2,717
20. Aeroplane hangars	183	622	805	94	264	358	199	279	478
21. Passenger terminals, bus, boat or air	192	15	207	306	27	333	354	11	365
22. Armouries, barracks, drill halls, etc.	31	324	355	45	308	353	47	337	384
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,471	147	1,618	586	161	747	64	203	267
24. Laboratories	1,550	438	1,988	2,283	306	2,589	4,135	439	4,574
25. Other building construction	1,069	454	1,523	1,934	658	2,592	1,489	581	2,070
Total engineering construction	270,023	49,534	319,557	273,950	48,048	321,998	309,370	48,800	358,170
Marine construction	1,695	1,329	3,024	3,465	1,355	4,820	5,772	1,370	7,142
26. Docks, wharves, piers, breakwaters	107	215	322	1,848	319	2,167	4,348	274	4,622
27. Retaining walls, embankments, ripraping	3	55	58	4	—	4	4	—	4
28. Canals and waterways	1,347	690	2,037	1,241	970	2,211	1,320	1,066	2,386
29. Dredging and pile driving	—	—	—	—	—	—	—	—	—
30. Dyke construction	218	367	585	372	64	436	100	28	128
31. Logging booms	—	—	—	—	—	—	—	—	—
32. Other marine construction	20	2	22	—	2	2	—	2	2

See footnote(s) on page 44.

TABLE 24. Total Value of Construction Work Performed — New and Repair by Type of Structure — Manitoba, 1970-72^{1,11} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	46,925	9,289	56,214	59,062	11,865	70,927	63,011	11,556	74,567
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	45,101	8,855	53,956	56,512	11,468	67,980	60,632	11,186	71,818
34. Parking lots	362	89	451	412	107	519	369	77	446
36. Sidewalks, paths	316	235	551	860	210	1,070	797	206	1,003
37. Aerodromes, landing fields, runways, tarmac	1,146	110	1,256	1,278	80	1,358	1,213	87	1,300
Waterworks and sewage systems	14,219	3,493	17,712	17,906	3,879	21,785	16,885	2,959	19,844
38. Tile drains, drainage ditches, storm sewers	4,310	908	5,218	6,071	1,650	7,721	4,601	640	5,241
39. Water mains, hydrants and services	3,272	1,555	4,827	3,834	1,730	5,564	3,536	1,671	5,207
40. Sewage systems and connections	3,342	711	4,053	4,830	273	5,103	5,137	461	5,598
41. Pumping stations, water	2,525	204	2,729	2,785	154	2,939	3,262	130	3,392
42. Water storage tanks	770	115	885	386	72	458	349	57	406
Dams and irrigation	2,863	850	3,713	3,948	801	4,749	3,735	662	4,397
43. Dams and reservoirs	1,596	383	1,979	2,569	341	2,910	2,451	234	2,685
44. Irrigation and land reclamation projects	1,267	467	1,734	1,379	460	1,839	1,284	428	1,712
Electric power construction	107,114	3,560	110,674	92,633	1,607	94,240	89,313	1,520	90,833
45. Electric power generating plants, including water conveying and controlling structures	45,434	1,240	46,674	55,627	245	55,872	49,938	222	50,160
46. Electric transformer stations	60	48	108	8,007	63	8,070	13,675	63	13,738
47. Power transmission and distribution lines, trolley wires	61,087	1,491	62,578	28,319	525	28,844	25,019	513	25,532
48. Street lighting	533	781	1,314	680	774	1,454	681	722	1,403
Railway, telephone and telegraph	23,147	18,710	41,857	26,498	18,925	45,423	20,020	20,656	40,676
49. Railway tracks and roadbed	11,153	12,781	23,934	10,230	12,541	22,771	7,969	12,951	20,920
50. Signals and interlockers	1,082	1,656	2,738	1,133	1,761	2,894	1,017	1,833	2,850
51. Telegraph and telephone lines, underground and marine cables	10,912	4,273	15,185	15,135	4,623	19,758	11,034	5,872	16,906
Gas and oil facilities	20,245	2,851	23,096	22,557	3,114	25,671	65,440	3,516	68,956
52. Gas mains and services	3,655	502	4,157	3,929	499	4,428	2,960	535	3,495
53. Pumping stations, oil	1,516	202	1,718	3,557	196	3,753	2,508	278	2,786
54. Pumping stations, gas	1,700	32	1,732	435	190	625	500	382	882
55. Oil storage tanks	295	173	468	553	127	680	789	308	1,097
56. Gas storage tanks	84	—	84	94	—	94	20	—	20
57. Oil pipe lines	35	150	185	57	157	214	14,482	234	14,716
58. Gas pipe lines	11,000	22	11,022	12,291	23	12,314	40,796	—	40,796
59. Oil and gas wells	1,049	489	1,538	869	533	1,402	2,037	563	2,600
61. Oil refinery — Processing units	911	1,281	2,192	772	1,389	2,161	1,348	1,216	2,564
62. Natural gas processing plants	—	—	—	—	—	—	—	—	—
Other engineering construction	53,815	9,452	63,267	47,881	6,502	54,383	45,194	6,561	51,755
63. Bridges, trestles, culverts, overpasses, viaducts	8,125	2,375	10,500	7,882	1,942	9,824	6,755	1,365	8,120
64. Tunnels and subways	409	2	411	1,178	2	1,180	1,135	2	1,137
65. Incinerators	375	89	464	9	—	9	2,934	127	3,061
66. Park systems, landscaping, sodding, etc.	1,511	760	2,271	4,711	738	5,449	548	682	1,230
67. Swimming pools, tennis courts, outdoor recreation facilities	975	1,116	2,091	100	108	208	60	111	171
68. Mine shafts and other below surface workings	37,973	1,253	39,226	26,224	1,048	27,272	22,854	789	23,643
69. Fences, snowsheds, signs, guard rails	2,123	828	2,951	3,339	830	4,169	3,764	805	4,569
70. Other engineering construction	2,324	3,029	5,353	4,438	1,834	6,272	7,144	2,680	9,824

See footnote(s) on page 44.

TABLE 25. Total Value of Construction Work Performed—New and Repair by Type of Structure—Saskatchewan, 1970-72^{1,12}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	345,794	129,869	475,663	388,645	135,241	523,886	404,839	138,531	543,370
Total building construction	140,535	67,385	207,920	158,408	67,870	226,278	168,753	68,276	237,029
Residential	51,600	43,600	95,200	59,800	43,800	103,600	72,200	44,100	116,300
Industrial	12,254	4,238	16,492	10,532	3,885	14,417	7,273	4,034	11,307
2. Factories, plants, workshops, food canneries	5,216	1,476	6,692	8,299	1,644	9,943	5,154	1,718	6,872
3. Mine and mine mill buildings	5,814	1,239	7,053	595	486	1,081	832	490	1,322
4. Railway stations, offices, roadway buildings	658	983	1,641	1,070	1,038	2,108	829	1,082	1,911
5. Railway shops, engine houses, water and fuel stations	566	540	1,106	568	717	1,285	458	744	1,202
Commercial	30,475	7,817	38,292	24,205	6,436	30,641	30,417	7,195	37,612
6. Warehouses, storehouses, refrigerated storage, etc.	3,957	571	4,528	2,067	571	2,638	2,219	948	3,167
7. Grain elevators	1,980	1,703	3,683	1,499	1,523	3,022	2,313	1,845	4,158
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,326	625	1,951	1,301	653	1,954	1,191	572	1,763
9. Office buildings	8,501	1,239	9,740	10,492	846	11,338	9,263	977	10,240
10. Stores, retail and wholesale	9,081	1,904	10,985	3,810	1,694	5,504	7,710	1,686	9,396
11. Garages and service stations	3,248	1,372	4,620	3,398	987	4,385	5,609	981	6,590
12. Theatres, arenas, amusement and recreational buildings	2,027	363	2,390	1,638	157	1,795	2,112	181	2,293
13. Laundries and dry cleaning establishments	355	40	395	—	5	5	—	5	5
Institutional	26,072	3,726	29,798	38,882	3,353	42,235	33,298	3,640	36,938
14. Schools and other educational buildings	19,465	1,477	20,942	25,879	2,128	28,007	22,978	2,241	25,219
15. Churches and other religious buildings	114	84	198	318	103	421	77	128	205
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	3,848	2,016	5,864	5,143	808	5,951	5,891	931	6,822
17. Other institutional buildings	2,645	149	2,794	7,542	314	7,856	4,352	340	4,692
Other building construction	20,134	8,004	28,138	24,989	10,396	35,385	25,565	9,307	34,872
18. Farm buildings (excluding dwellings)	17,050	6,814	23,864	21,610	8,622	30,232	20,203	8,082	28,285
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	1,061	242	1,303	524	746	1,270	1,408	224	1,632
20. Aeroplane hangars	60	220	280	44	119	163	40	125	165
21. Passenger terminals, bus, boat or air	1	2	3	—	261	261	—	261	261
22. Armouries, barracks, drill halls, etc.	55	468	523	69	344	413	64	365	429
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	307	64	371	157	99	256	696	81	777
24. Laboratories	227	43	270	486	35	521	1,032	37	1,069
25. Other building construction	1,373	151	1,524	2,099	170	2,269	2,122	132	2,254
Total engineering construction	205,259	62,484	267,743	230,237	67,371	297,608	236,086	70,255	306,341
Marine construction	2,222	269	2,491	3,407	255	3,662	3,440	252	3,692
26. Docks, wharves, piers, breakwaters	169	134	303	691	183	874	220	175	395
27. Retaining walls, embankments, ripraping	16	—	16	85	15	100	66	10	76
28. Canals and waterways	2,036	135	2,171	2,630	57	2,687	2,893	1	2,894
29. Dredging and pile driving	—	—	—	—	—	—	—	66	66
30. Dyke construction	—	—	—	—	—	—	260	—	260
31. Logging booms	—	—	—	—	—	—	—	—	—
32. Other marine construction	1	—	1	1	—	1	1	—	1

See footnote(s) on page 44.

TABLE 25. Total Value of Construction Work Performed — New and Repair by Type of Structure — Saskatchewan, 1970-72^{1,11} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	67,635	15,243	82,878	66,316	16,982	83,298	75,878	18,870	94,748
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	66,479	14,361	80,840	65,335	16,437	81,772	74,836	18,361	93,197
34. Parking lots	224	118	342	218	56	274	313	65	378
36. Sidewalks, paths	910	374	1,284	630	170	800	677	120	797
37. Aerodromes, landing fields, runways, tarmac	22	390	412	133	319	452	52	324	376
Waterworks and sewage systems	13,969	3,702	17,671	17,395	5,091	22,486	13,662	5,711	19,373
38. Tile drains, drainage ditches, storm sewers	3,324	935	4,259	4,965	1,171	6,136	3,873	1,123	4,996
39. Water mains, hydrants and services	3,265	1,955	5,220	4,321	2,317	6,638	4,680	2,356	7,036
40. Sewage systems and connections	6,446	584	7,030	6,639	1,107	7,746	3,783	1,151	4,934
41. Pumping stations, water	666	103	769	1,043	323	1,366	945	918	1,863
42. Water storage tanks	268	125	393	427	173	600	381	163	544
Dams and irrigation	4,802	1,898	6,700	5,496	1,876	7,372	5,559	1,859	7,418
43. Dams and reservoirs	2,035	878	2,913	2,165	678	2,843	2,302	717	3,019
44. Irrigation and land reclamation projects	2,767	1,020	3,787	3,331	1,198	4,529	3,257	1,142	4,399
Electric power construction	15,003	1,080	16,083	12,866	6,633	19,499	9,702	5,999	15,701
45. Electric power generating plants, including water conveying and controlling structures	5,193	773	5,966	3,573	2,937	6,510	706	2,745	3,451
46. Electric transformer stations	87	17	104	109	3	112	101	2	103
47. Power transmission and distribution lines, trolley wires	9,254	218	9,472	8,516	3,485	12,001	7,990	3,018	11,008
48. Street lighting	469	72	541	668	208	876	905	234	1,139
Railway, telephone and telegraph	14,909	13,986	28,895	21,593	12,628	34,221	18,037	13,633	31,670
49. Railway tracks and roadbed	7,515	10,533	18,048	11,087	10,608	21,695	8,614	11,008	19,622
50. Signals and interlockers	967	1,339	2,306	1,096	1,547	2,643	966	1,617	2,583
51. Telegraph and telephone lines, underground and marine cables	6,427	2,114	8,541	9,410	473	9,883	8,457	1,008	9,465
Gas and oil facilities	69,018	20,763	89,781	85,242	17,831	103,073	83,503	17,911	101,414
52. Gas mains and services	2,374	1,521	3,895	2,361	1,216	3,577	1,747	1,265	3,012
53. Pumping stations, oil	3,528	513	4,041	13,537	500	14,037	8,211	542	8,753
54. Pumping stations, gas	3,000	85	3,085	—	90	90	—	—	—
55. Oil storage tanks	25	121	146	656	153	809	1,187	155	1,342
56. Gas storage tanks	162	—	162	—	—	—	—	—	—
57. Oil pipe lines	515	521	1,036	3	278	281	8,933	387	9,320
58. Gas pipe lines	24,870	109	24,979	40,466	118	40,584	35,620	87	35,707
59. Oil and gas wells	33,050	15,563	48,613	26,957	13,154	40,111	25,682	13,704	39,386
61. Oil refinery — Processing units	412	1,688	2,100	317	1,794	2,111	767	1,379	2,146
62. Natural gas processing plants	1,082	642	1,724	945	528	1,473	1,356	392	1,748
Other engineering construction	17,701	5,543	23,244	17,922	6,075	23,997	26,305	6,020	32,325
63. Bridges, trestles, culverts, overpasses, viaducts	3,645	1,074	4,719	3,858	1,439	5,297	5,282	1,430	6,712
64. Tunnels and subways	20	3	23	—	8	8	900	10	910
65. Incinerators	3	20	23	22	185	207	350	189	539
66. Park systems, landscaping, sodding, etc.	436	129	565	1,223	430	1,653	1,885	481	2,366
67. Swimming pools, tennis courts, outdoor recreation facilities	560	396	956	1,061	12	1,073	1,798	132	1,930
68. Mine shafts and other below surface workings	7,264	512	7,776	5,469	536	6,005	10,492	348	10,840
69. Fences, snowsheds, signs, guard rails	3,010	1,256	4,266	3,750	1,584	5,334	3,596	1,535	5,131
70. Other engineering construction	2,763	2,153	4,916	2,539	1,881	4,420	2,002	1,895	3,897

See footnote(s) on page 44.

TABLE 26. Total Value of Construction Work Performed—New and Repair by Type of Structure—Alberta, 1970-72^{1,2,3,4}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,431,735	278,215	1,709,950	1,481,631	282,564	1,764,195	1,529,902	298,117	1,828,019
Total building construction	583,143	127,544	710,687	671,734	132,526	804,260	702,134	135,477	837,611
Residential	279,600	70,400	350,000	380,500	73,400	453,900	392,500	78,100	470,600
Industrial	25,836	10,799	36,635	30,378	7,946	38,324	38,275	8,521	46,796
2. Factories, plants, workshops, food canneries	22,305	8,985	31,290	27,234	5,883	33,117	34,213	6,374	40,587
3. Mine and mine mill buildings	1,325	139	1,464	1,021	34	1,055	2,313	48	2,361
4. Railway stations, offices, roadway buildings	1,040	1,017	2,057	1,197	1,185	3,382	1,149	1,227	2,376
5. Railway shops, engine houses, water and fuel stations	1,166	658	1,824	926	844	1,770	600	872	1,472
Commercial	123,812	16,638	140,450	95,162	21,049	116,211	106,022	20,404	126,426
6. Warehouses, storehouses, refrigerated storage, etc.	9,563	1,731	11,294	8,399	1,815	10,214	12,677	2,010	14,687
7. Grain elevators	1,104	986	2,090	947	943	1,890	1,441	1,143	2,584
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	4,148	1,874	6,022	4,719	1,886	6,605	9,411	2,624	12,035
9. Office buildings	65,183	4,938	70,121	33,797	7,192	40,989	31,431	4,957	36,388
10. Stores, retail and wholesale	28,654	4,328	32,982	34,042	5,991	40,033	33,953	6,695	40,648
11. Garages and service stations	8,333	1,776	10,109	7,478	2,047	9,525	9,619	2,152	11,771
12. Theatres, arenas, amusement and recreational buildings	6,600	850	7,450	5,680	1,060	6,740	7,201	703	7,904
13. Laundries and dry cleaning establishments	227	155	382	100	115	215	289	120	409
Institutional	107,207	15,335	122,542	114,017	15,359	129,376	115,636	12,650	128,286
14. Schools and other educational buildings	82,547	8,936	91,483	92,130	8,480	100,610	87,707	8,176	95,883
15. Churches and other religious buildings	2,702	991	3,693	560	136	696	370	154	524
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	11,859	2,940	14,799	12,472	2,426	14,898	15,167	2,467	17,634
17. Other institutional buildings	10,099	2,468	12,567	8,855	4,317	13,172	12,392	1,853	14,245
Other building construction	46,688	14,372	61,060	51,677	14,772	66,449	49,701	15,802	65,503
18. Farm buildings (excluding dwellings)	35,677	9,642	45,319	35,684	9,674	45,358	37,059	9,944	47,003
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	3,448	1,176	4,624	4,166	1,519	5,685	2,126	1,630	3,756
20. Aeroplane hangars	1,701	217	1,918	525	49	574	568	58	626
21. Passenger terminals, bus, boat or air	19	48	67	1,084	50	1,134	346	57	403
22. Armouries, barracks, drill halls, etc.	594	676	1,270	1,226	613	1,839	1,299	719	2,018
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	598	553	1,151	376	247	623	337	262	599
24. Laboratories	1,753	111	1,864	3,618	104	3,722	3,833	117	3,950
25. Other building construction	2,898	1,949	4,847	4,998	2,516	7,514	4,133	3,015	7,148
Total engineering construction	848,592	150,671	999,263	809,897	150,038	959,935	827,768	162,640	990,408
Marine construction	264	69	333	767	147	914	438	153	591
26. Docks, wharves, piers, breakwaters	61	69	130	289	143	432	290	149	439
27. Retaining walls, embankments, ripraping	203	—	203	46	1	47	118	1	119
28. Canals and waterways	—	—	—	—	—	—	—	—	—
29. Dredging and pile driving	—	—	—	370	—	370	—	—	—
30. Dyke construction	—	—	—	62	3	65	30	3	33
31. Logging booms	—	—	—	—	—	—	—	—	—
32. Other marine construction	—	—	—	—	—	—	—	—	—

See footnote(s) on page 44.

TABLE 26. Total Value of Construction Work Performed – New and Repair by Type of Structure – Alberta, 1970 - 72^{1,10,11} – Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	85,464	32,710	118,174	97,722	25,837	123,559	97,392	31,386	128,778
33. Highway, road and street construction, (Includes grading, scraping, oiling, filling)	81,892	31,805	113,697	92,549	23,863	116,412	92,729	29,586	122,315
34. Parking lots	529	94	623	1,655	439	2,094	326	242	568
36. Sidewalks, paths	2,687	277	2,964	3,007	918	3,925	3,483	281	3,764
37. Aerodromes, landing fields, runways, tarmac	356	534	890	511	617	1,128	854	1,277	2,131
Waterworks and sewage systems	40,158	3,845	44,003	49,310	5,632	54,942	49,581	4,788	54,369
38. Tile drains, drainage ditches, storm sewers	12,360	1,189	13,549	14,799	1,216	16,015	15,138	1,195	16,333
39. Water mains, hydrants and services	13,768	2,000	15,768	13,691	2,272	15,963	14,261	2,588	16,849
40. Sewage systems and connections	10,962	351	11,313	15,773	1,566	17,339	16,469	528	16,997
41. Pumping stations, water	1,511	96	1,607	4,496	379	4,875	3,122	261	3,383
42. Water storage tanks	1,557	209	1,766	551	199	750	591	216	807
Dams and irrigation	7,746	2,752	10,498	7,510	3,296	10,806	8,587	3,895	12,482
43. Dams and reservoirs	1,652	645	2,297	2,305	630	2,935	2,747	1,182	3,929
44. Irrigation and land reclamation projects	6,094	2,107	8,201	5,205	2,666	7,871	5,840	2,713	8,553
Electric power construction	64,548	3,157	67,705	80,557	6,320	86,877	70,926	7,212	78,138
45. Electric power generating plants, including water conveying and controlling structures	35,096	1,123	36,219	42,958	1,096	44,054	41,426	1,239	42,665
46. Electric transformer stations	2,250	37	2,287	609	29	638	—	45	45
47. Power transmission and distribution lines, trolley wires	26,221	1,849	28,070	35,690	5,075	40,765	28,998	5,572	34,570
48. Street lighting	981	148	1,129	1,300	120	1,420	502	356	858
Railway, telephone and telegraph	38,651	16,472	55,123	41,048	17,896	58,944	43,457	18,786	62,243
49. Railway tracks and roadbed	11,156	11,684	22,840	13,137	13,103	26,240	13,074	13,568	26,642
50. Signals and interlockers	3,676	1,484	5,160	1,113	1,714	2,827	1,007	1,785	2,792
51. Telegraph and telephone lines, underground and marine cables	23,819	3,304	27,123	26,798	3,079	29,877	29,376	3,433	32,809
Gas and oil facilities	506,704	70,403	577,107	484,304	66,457	550,761	479,239	76,796	556,035
52. Gas mains and services	67,551	1,693	69,244	41,166	1,978	43,144	50,923	2,057	52,980
53. Pumping stations, oil	1,690	788	2,478	7,001	954	7,955	10,956	960	11,916
54. Pumping stations, gas	26,854	2,267	29,121	8,015	72	8,087	7,460	76	7,536
55. Oil storage tanks	3,709	200	3,909	6,444	287	6,731	6,312	275	6,587
56. Gas storage tanks	30	—	30	181	—	181	1,300	—	1,300
57. Oil pipe lines	12,652	1,831	14,483	6,293	1,562	7,855	12,486	1,787	14,273
58. Gas pipe lines	12,096	684	12,780	2,434	239	2,673	4,532	262	4,794
59. Oil and gas wells	242,356	38,195	280,551	248,691	33,896	282,587	296,164	38,359	334,523
61. Oil refinery – Processing units ¹⁰	20	3,213	3,233	—	3,025	3,025	—	5,413	5,413
62. Natural gas processing plants	139,746	21,532	161,278	164,079	24,444	188,523	89,106	27,607	116,713
Other engineering construction	105,057	21,263	126,320	48,679	24,453	73,132	78,148	19,624	97,772
63. Bridges, tresties, culverts, overpasses, viaducts	19,051	4,677	23,728	16,638	6,670	23,308	22,460	4,809	27,269
64. Tunnels and subways	950	5	955	447	—	447	33	—	33
65. Incinerators	384	107	491	164	1	165	9	10	19
66. Park systems, landscaping, sodding, etc.	2,229	1,792	4,021	3,394	2,130	5,524	7,394	2,553	9,947
67. Swimming pools, tennis courts, outdoor recreation facilities	4,031	88	4,119	1,946	220	2,166	2,848	135	2,983
68. Mine shafts and other below surface workings	13,282	152	13,434	2,786	30	2,816	1,094	52	1,146
69. Fences, snowsheds, signs, guard rails	5,928	1,793	7,721	5,660	1,775	7,435	5,942	1,852	7,794
70. Other engineering construction ¹⁰	59,202	12,649	71,851	17,644	13,627	31,271	38,368	10,213	48,581

See footnote(s) on page 44.

TABLE 27. Total Value of Construction Work Performed — New and Repair by Type of Structure — British Columbia, 1970-72^{1,10,11,13}

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,568,982	272,748	1,841,730	2,084,000	289,173	2,373,173	2,040,697	309,598	2,350,295
Total building construction	836,737	163,088	999,825	1,085,809	171,194	1,257,003	1,063,368	177,645	1,241,013
Residential	473,700	101,500	575,200	571,100	106,100	677,200	635,300	110,700	746,000
Industrial	121,785	15,671	137,456	195,872	17,327	213,199	88,216	19,190	107,406
2. Factories, plants, workshops, food canneries	93,233	12,070	105,303	99,885	13,660	113,545	57,803	15,175	72,978
3. Mine and mine mill buildings	25,425	1,652	27,077	91,665	1,213	92,878	26,268	1,474	27,742
4. Railway stations, offices, roadway buildings	1,769	1,142	2,911	2,992	1,411	4,403	2,616	1,457	4,073
5. Railway shops, engine houses, water and fuel stations	1,358	807	2,165	1,330	1,043	2,373	1,529	1,084	2,613
Commercial	102,604	22,206	124,810	167,836	25,289	193,125	196,866	25,036	221,902
6. Warehouses, storehouses, refrigerated storage, etc.	7,577	2,465	10,042	12,087	2,257	14,344	8,815	2,441	11,256
7. Grain elevators	348	66	414	324	917	1,241	1,444	929	2,373
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	14,370	2,649	17,019	12,809	2,526	15,335	37,150	2,462	39,612
9. Office buildings	37,394	7,723	45,117	72,412	9,475	81,887	75,911	8,507	85,418
10. Stores, retail and wholesale	17,499	4,954	22,453	42,700	5,661	48,361	42,358	5,392	47,750
11. Garages and service stations	14,710	2,873	17,583	12,470	2,357	14,827	14,940	2,944	17,884
12. Theatres, arenas, amusement and recreational buildings	10,465	1,351	11,816	14,834	1,955	16,789	16,048	1,250	17,298
13. Laundries and dry cleaning establishments	241	125	366	200	141	341	200	111	311
Institutional	94,942	15,440	110,382	110,037	15,609	125,646	104,939	16,541	121,480
14. Schools and other educational buildings	58,604	6,963	65,767	59,265	7,007	66,272	59,402	6,933	66,335
15. Churches and other religious buildings	2,492	457	2,949	1,325	382	1,707	1,138	421	1,559
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	23,518	4,793	28,311	28,583	2,286	30,869	27,179	3,043	30,222
17. Other institutional buildings	10,128	3,227	13,355	20,864	5,934	26,798	17,220	6,144	23,364
Other building construction	43,706	8,271	51,977	40,964	6,869	47,833	38,047	6,178	44,225
18. Farm buildings (excluding dwellings)	3,940	1,046	4,986	2,282	609	2,891	2,340	624	2,964
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	4,217	975	5,192	7,702	977	8,679	16,659	1,524	18,183
20. Aeroplane hangars	4,493	181	4,674	3,135	212	3,347	653	253	906
21. Passenger terminals, bus, boat or air	2,646	23	2,669	5,238	144	5,382	3,327	197	3,524
22. Armouries, barracks, drill halls, etc.	1,214	694	1,908	1,656	582	2,238	1,475	680	2,155
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	8,270	1,189	9,459	6,727	1,376	8,103	4,232	1,468	5,700
24. Laboratories	306	469	775	655	211	866	853	197	1,050
25. Other building construction	18,620	3,694	22,314	13,569	2,758	16,327	8,508	1,235	9,743
Total engineering construction	732,245	109,660	841,905	998,191	117,979	1,116,170	977,329	131,953	1,109,282
Marine construction	13,061	6,144	19,205	19,738	5,146	24,884	33,527	5,968	39,495
26. Docks, wharves, piers, breakwaters	5,206	4,054	9,260	8,554	3,105	11,659	11,171	3,571	14,742
27. Retaining walls, embankments, ripraping	1,268	102	1,370	1,754	37	1,791	1,884	112	1,996
28. Canals and waterways	2,849	—	2,849	3,881	3	3,884	3,466	—	3,466
29. Dredging and pile driving	1,012	1,368	2,380	710	1,334	2,044	1,183	1,650	2,833
30. Dyke construction	1,058	66	1,124	2,695	94	2,789	8,011	87	8,098
31. Logging booms	159	357	516	243	368	611	247	338	585
32. Other marine construction	1,509	197	1,706	1,901	205	2,106	7,565	210	7,775

See footnote(s) on page 44.

TABLE 27. Total Value of Construction Work Performed — New and Repair by Type of Structure — British Columbia, 1970-72^{1,10,11,13} — Concluded

Type of structure	1970			1971			1972		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	139,523	34,828	174,351	150,673	43,716	194,389	162,158	48,271	210,429
33. Highway, road and street construction, (includes grading, scraping, oiling, filling)	133,540	34,020	167,560	142,765	42,864	185,629	154,299	47,217	201,516
34. Parking lots	1,042	328	1,370	1,162	292	1,454	1,310	296	1,606
36. Sidewalks, paths	1,821	358	2,179	2,243	423	2,666	2,925	596	3,521
37. Aerodromes, landing fields, runways, tarmac	3,130	122	3,242	4,503	137	4,640	3,624	162	3,786
Waterworks and sewage systems	45,919	5,604	51,523	83,894	7,343	91,237	79,828	9,211	89,039
38. Tile drains, drainage ditches, storm sewers	4,328	913	5,241	5,640	2,542	8,182	5,752	2,868	8,620
39. Water mains, hydrants and services	14,786	2,541	17,327	23,163	2,607	25,770	14,698	3,514	18,212
40. Sewage systems and connections	24,548	1,471	26,019	45,781	1,632	47,413	55,325	2,299	57,624
41. Pumping stations, water ¹⁰	1,598	597	2,195	6,973	490	7,463	3,226	465	3,691
42. Water storage tanks ¹⁰	659	82	741	2,337	72	2,409	827	65	892
Dams and irrigation	10,808	509	11,317	17,323	227	17,550	11,329	252	11,581
43. Dams and reservoirs	4,647	353	5,000	13,822	93	13,915	10,697	100	10,797
44. Irrigation and land reclamation projects	6,161	156	6,317	3,501	134	3,635	632	152	784
Electric power construction	174,715	12,651	187,366	183,437	11,618	195,055	196,373	12,601	208,974
45. Electric power generating plants, including water conveying and controlling structures	104,659	4,316	108,975	122,157	3,550	125,707	123,529	3,874	127,403
46. Electric transformer stations	549	108	657	537	101	638	583	77	660
47. Power transmission and distribution lines, trolley wires	67,720	7,851	75,571	59,640	7,451	67,091	70,967	8,211	79,178
48. Street lighting	1,787	376	2,163	1,103	516	1,619	1,294	439	1,733
Railway, telephone and telegraph	82,122	26,276	108,398	94,389	24,639	119,028	96,958	25,828	122,786
49. Railway tracks and roadbed	51,263	16,632	67,895	59,555	16,611	76,166	57,469	17,242	74,711
50. Signals and interlockers	1,544	1,504	3,048	1,410	1,971	3,381	1,243	2,050	3,293
51. Telegraph and telephone lines, underground and marine cables	29,315	8,140	37,455	33,424	6,057	39,481	38,246	6,536	44,782
Gas and oil facilities	143,584	12,615	156,199	285,898	14,165	300,063	249,910	15,597	265,507
52. Gas mains and services	10,946	1,099	12,045	9,953	1,367	11,320	12,489	1,508	13,997
53. Pumping stations, oil	1,035	808	1,843	2,961	748	3,712	544	785	1,329
54. Pumping stations, gas	9,805	732	10,537	19,437	1,035	20,472	7,171	1,115	8,286
55. Oil storage tanks	1,716	215	1,931	1,257	156	1,413	2,100	228	2,328
56. Gas storage tanks	1,560	6	1,566	62	30	92	—	31	31
57. Oil pipe lines	378	540	918	8	299	307	—	306	306
58. Gas pipe lines	19,163	157	19,320	102,453	126	102,579	30,488	134	30,622
59. Oil and gas wells	87,350	3,595	90,945	113,120	5,975	119,095	165,055	6,105	171,160
61. Oil refinery — Processing units	3,892	3,996	7,888	5,538	3,408	8,946	9,291	4,279	13,570
62. Natural gas processing plants	7,739	1,467	9,206	31,106	1,021	32,127	22,772	1,106	23,878
Other engineering construction	122,513	11,033	133,546	162,839	11,125	173,964	147,246	14,225	161,371
63. Bridges, trestles, culverts, overpasses, viaducts	22,885	4,728	27,613	28,670	4,108	32,778	31,828	4,814	36,642
64. Tunnels and subways	333	—	333	113	118	231	199	—	199
65. Incinerators	147	58	205	14	13	27	94	16	110
66. Park systems, landscaping, sodding, etc.	1,080	275	1,355	7,681	1,759	9,440	5,708	3,701	9,409
67. Swimming pools, tennis courts, outdoor recreation facilities	3,507	686	4,193	3,029	152	3,181	3,184	277	3,461
68. Mine shafts and other below surface workings	80,373	566	80,939	72,249	633	72,882	84,903	619	85,522
69. Fences, snowsheds, signs, guard rails	1,036	1,162	2,198	1,689	383	2,072	1,810	454	2,264
70. Other engineering construction ¹⁰	13,152	3,558	16,710	49,394	3,959	53,353	19,520	4,344	23,864

See footnote(s) on page 44.

STATISTICAL NOTES

Sources

The statistics presented in this report are based on information received from organizations and individuals paying for the work done and on information received from contractors performing the work.

The data on the value of construction by type of structure is the result of two separate surveys:

- (a) The capital expenditures survey which obtains information from business firms, institutions and government-owned enterprises.
- (b) The construction survey of government departments which provides much of the remainder.

In both these surveys respondents report their total expenditures on new and repair construction, by type of structure, additional to a breakdown of these totals into value of work done by contract and by own labour force.

The data on labour and materials input are based on the survey of contractors and sub-contractors and on the censuses of mechanical and electrical trade contractors, and highway, roads and bridge general contractors.

Respondents report volume of work performed and its input components, as well as further data on type of work, labour force, and capital expenditures.

Methods and Coverage

(i) Of the total value of construction shown, about 81.7% was reported in **capital spending surveys** of business firms, institutions, government enterprises and departments and 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 page 24 of the report *Private and Public Investment in Canada, Outlook 1972*.

To approximate full coverage, adjustments are made to the surveyed data to allow for non-reporting firms.

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 for the most recent year available of all the firms in each industry by the corresponding total for the firms reporting in the current surveys. The use of shipments as related indicator provides a framework of analysis in the estimation procedures to take account of relevant industry characteristics such as the size of firms. 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 establishments for which no production or other basic data are available are included as "net additions". It is believed that the estimating procedures for non-reporting firms and the sectors not covered by direct survey does not introduce any great margin of error into the total.

The large sample size reduces the standard error of estimate, which will vary for specific structures, regions and industries depending on individual coverage.

Both the 1971 preliminary actual expenditures and the 1972 forecast expenditures were reported by business establishments on the same questionnaire form. 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 1971 to 1972 can be calculated with more accuracy than the absolute magnitude of expenditures in the two years.

The data on 1972 construction expenditures are aggregates of the intentions of the individual respondents. These estimates are therefore subject

to different realization caused by several internal and external factors such as business outlook, government policy, price trends, strikes and shortages.

Finally, the capital expenditure surveys provide own account data.

(ii) The **contractor surveys** provide the ratios on which labour and materials content calculations are based. In volume terms coverage in the 1970 contractor survey was 56.5%.

Number of employees are arrived at by dividing the labour content by annual average wage rates which were projected from 1963 contractor survey data.

Data on labour value are understated for the years 1971 and 1972 since ratio of labour content in the survey year was not adjusted to reflect wage increases, this also has a lowering effect on the man years figure.

(iii) **Housing estimates** were made on a different basis from those derived from information submitted directly by business or government. For 1970 and 1971, 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 Statistics Canada. These value estimates were calculated by means of a very sensitive methodology based on the duration of construction and monthly measures of work put in place. Appraisals of the probable volume of housing construction in 1972 were made by field representatives of the 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 10,000 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 10,000 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 construction work carried over from 1971, and the value of work expected to be undertaken in 1972.

FOOTNOTES

¹ Actual expenditures 1963-70, preliminary actual 1971, intentions 1972.

² In the Statistics Canada report *Private and Public Investment in Canada*, the total value of construction work performed is given as \$13,780 millions for 1970, \$15,647 millions for 1971, and \$16,340 millions for 1972. The differences with values in this report are due to rounding procedures.

³ Data for 1963-67 are not directly comparable with data published for years previous to 1961 due to minor revisions in the mining and residential sectors.

⁴ Table from *Private and Public Investment in Canada, Outlook 1972*.

⁵ Estimates for metal and non-metal mining were increased for 1967 and subsequent years following the introduction of a new survey questionnaire and the resultant collection of more complete supplementary data on development and on property exploration by mining companies in production, those preparing for production and exploration companies.

⁶ Beginning in 1969, outlays by municipalities on water systems, previously included with utilities, are now included with municipal government departments.

⁷ The use of a special survey questionnaire for petroleum, gas wells and material gas processing plants resulted in re-allocations of structure data after 1964.

⁸ Data for government departments include data for departmental crown corporations and exclude data for proprietary crown corporations which are all classified to other industries. Agency crown corporations, on the other hand, are provisionally classified in part to other industries and the remainder to government departments.

⁹ Represents work done by the labour forces of utilities, government departments and other employees not primarily engaged in the construction industry. Beginning in 1969, materials supplied free of charge to contractors by project owners (previously included in contract construction) are included in other construction.

¹⁰ "Other building", "other marine" and "other engineering", items 25, 32 and 70 respectively, contain structures which would not be published in their specific categories due to the secrecy provisions of the Statistics Act.

¹¹ Beginning in 1969, several changes were made to the format for publishing expenditures by structural item. A new classification, item 24, "laboratories" was segregated. This structural item was previously included in item 25, "other building construction". "Electric power dams", previously grouped in item 43, are included in item 45, "electric power generating plants". Highway, road and street construction, previously items 32, 33, 34 and 35 were grouped into one category, item 45. "Parking lots", previously included as part of the same items, were separated. "Oil wells" and "gas wells", previously items 59 and 60, were combined into one category, item 59 "oil and gas wells".

¹² Item 46, electric transformer stations, formerly considered to be construction, is now considered to be an item of machinery and equipment in the electric power sub-sector of utilities.

¹³ British Columbia includes Northwest Territories and Yukon.

¹⁴ Number of employees is given in equivalent man-years.

¹⁵ "Miscellaneous" consists of construction work done by firms not primarily engaged in the construction industry, i.e. the construction labour forces of the primary (except construction), manufacturing, trade, finance, commercial, residential and institutional sectors.

¹⁶ Primary industries include agriculture, fishing, mining, forestry and the construction industry.

¹⁷ The capital construction expenditures for mines include outlays for on-property exploration and development.

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CONSTRUCTION IN CANADA 1970-72

The statistical data in this publication are prepared to meet the requirements of a broad range of different uses. In order to better service both specific and general user requirements - via continuing revisions to the selection and presentation of appropriate statistical tables - your answers to the following questions would be appreciated:

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- (b) Are these studies: Continuing (e.g. time series)? Occasional? Both?

2. Briefly describe the terms of reference and objectives of the above studies.

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Yes No

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