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CONSTRUCTION IN CANADA

1957 - 1959

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TABLE OF CONTENTS

	Page
Introduction	5
General Review	5
Value of Construction Work Performed:	
1. Current and Constant Dollars 1950-1959	6
2. By Contractors and Others 1955-1959	6
3. By Principal Types of Construction 1955-1959	7
4. By Type of Structure, Total 1955-1959	8
Labour Content and Cost of Materials Used 1955-1959:	
5. By Provinces	10
6. By Contractors and Others	11
Detailed Tables	12
Value of Construction Work Performed – Canada 1957-1959:	
7. By Type of Structure New and Repair	12
8. Dollar and Percentage Change by Type of Structure	14
9. By Principal Types of Construction for Industry or Sector	15
10. Dollar and Percentage Change by Principal Type of Construction for Industry or Sector	15
Value of Construction Work Performed by Type of Structure, Industry or Sector 1957-1959:	
11. Primary Industries	16
12. Manufacturing	18
13. Utilities	20
14. Trade Finance and Commercial Services	22
15. Federal Government Departments	24
16. Provincial Government Departments	25
17. Municipal Government Departments	26
18. Housing and Institutional Services	26
Value of Construction Work Performed by Type of Structure – Provinces 1957-1959:	
19. Newfoundland	27
20. Prince Edward Island	27
21. Nova Scotia	28
22. New Brunswick	30
23. Quebec	32
24. Ontario	34
25. Manitoba	36
26. Saskatchewan	38
27. Alberta	40
28. British Columbia	42
Statistical Notes	44

CONSTRUCTION IN CANADA

1957 - 1959

INTRODUCTION

This report contains data on construction activity undertaken in Canada during 1957 and 1958 and provides estimates of the intended program for 1959. The information given for 1958 is preliminary whereas that shown for 1957 and earlier years is final. The probable volume of construction that will be realized in 1959 can be appraised only in the light of past experience and conditions that will exist during the year.

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

The estimates are based mainly on data collected at the same time and from the same sources as that used in "Private and Public Investment in Canada, Outlook 1959", issued earlier this year. The slight differences in totals between the two reports are due to rounding and minor revisions. While the earlier report provided data on both construction and machinery and equipment expenditures, this report deals with construction only, but in considerably more detail, with separate estimates provided for 70 different types of structures, such as factories, office buildings, retail and wholesale stores, schools, electric power plants, highways and railway tracks and roadbed.

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

GENERAL REVIEW

Canada's intended construction program for 1959 is expected to be down very slightly from the 1958 level. Although expenditures on many of the principal types of construction will be greater in 1959, offsetting decreases, chiefly in pipeline construction, will result in a total net decrease of 0.4 per cent from 1958. This decrease anticipated for 1959 is in contrast with an increase of 3 per cent

in 1958 and 8.8 per cent in 1957. It is apparent that while the construction program is continuing at a very high level, the rate of increase has been declining steadily since 1956.¹

¹ For a more detailed discussion of the outlook for the construction program and factors likely to affect the realization, see *Private and Public Investment in Canada, Outlook 1959*, Department of Trade and Commerce.

Value of Construction

The 1959 construction program is estimated at \$7,202 million, about 0.4 per cent below the 1958 level of \$7,231 million. New work is expected to account for \$5,864 million and repair \$1,338 million. Variations between the figures contained in the accompanying table and those in previous publications for years prior to 1957 are due to a revision, in most cases upward, of residential outlays. This revision was occasioned by the use of a new method for estimating housing expenditures, both new and repair.

Year	Total new and repair construction \$ mill	% change over previous year in	
		Value	Volume
1950	3.280	14.8	8.9
1951	3.858	17.6	3.9
1952	4.444	15.2	9.4
1953	4.826	8.6	5.1
1954	4.842	0.3	0.2
1955	5.308	9.6	7.0
1956	6.454	21.6	16.0
1957	7.023	8.8	4.9
1958	7.231	3.0	1.3
1959	7.202	- 0.4	-

Construction in Current and Constant Dollars

The volume of construction carried out in 1957 increased approximately 5.0 per cent over 1956, considerably less than the 15% increase that took place in 1956. Preliminary estimates for 1958 indicate an increase of 1.3 per cent, which is also

much smaller than the corresponding increase for the previous year.

As illustrated in Table 1, the construction industry continued its importance in the economy by accounting for over one-fifth of the Gross National Product.

TABLE 1. Construction Work Performed, Current and Constant (1949) Dollars 1950 - 1959¹

	New		Repair		Total		Total construction as percentage of Gross National Product	
	Current	Constant	Current	Constant	Current	Constant	Current	Constant
millions of dollars								
1950	2,453	2,325	827	784	3,280	3,109	18.2	17.8
1951	2,871	2,405	987	827	3,858	3,231	18.2	17.4
1952	3,434	2,731	1,010	803	4,444	3,534	18.5	17.6
1953	3,756	2,892	1,070	824	4,826	3,716	19.3	17.9
1954	3,737	2,875	1,105	850	4,842	3,725	19.5	18.5
1955	4,167	3,129	1,141	857	5,308	3,986	19.6	18.2
1956	5,272	3,776	1,182	847	6,454	4,623	21.4	19.6
1957	5,785	3,995	1,238	855	7,023	4,850	22.3	20.6
1958	5,956	4,045	1,275	866	7,231	4,911	22.4	-
1959	5,864	-	1,338	-	7,202	-	-	-

¹ Actual 1950-1957, preliminary 1958, intentions 1959.

Value of Work Done by Contract

The following table shows that while contractors will continue to account for approximately 75 per cent of total construction work in 1959, their share of new construction is tending to decline. This is to be expected in a period when very large projects of a non-recurring nature are beginning to occupy a less important role in the total construction program. Such projects typically involve the use

of contract labour rather than the labour forces of the companies that will be operating the new facilities. Large projects such as the St. Lawrence Seaway, major pipelines and electric generating stations that were under construction during 1956-1958 have been substantially completed and projects of lesser magnitude are assuming relatively greater importance.

TABLE 2. Value of Construction Work Performed, by Contractors and Others 1955 - 1959¹

	Contract construction			Other construction ²			Total construction		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
millions of dollars									
1955	3,381	492	3,873	786	649	1,435	4,167	1,141	5,308
1956	4,319	520	4,839	953	662	1,615	5,272	1,182	6,454
1957	4,770	551	5,321	1,015	687	1,702	5,785	1,238	7,023
1958	4,911	590	5,501	1,045	685	1,730	5,956	1,275	7,231
1959	4,793	611	5,404	1,071	727	1,798	5,864	1,338	7,202

¹ Actual 1955-1957, preliminary 1958, intentions 1959.

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

Principal Types of Construction

In total, construction in 1959 is expected to be slightly below 1958, largely due to an anticipated decline of \$198 million in gas and oil facilities. Electric power construction and marine construction also show decreases of \$65 million and \$37 million respectively. These declines will be partially offset by increases in railway, telephone and telegraph construction, highway construction and waterworks

and sewers. On balance, the engineering group will show a decline of \$167 million.

In building construction decreases will occur in residential and industrial buildings. Substantial increases, however, are indicated for the remaining categories in the building group, with the result that total building construction will be up \$138 million from 1958.

TABLE 3. Value of Construction Work Performed, by Principal Types of Construction 1955-1959¹

	1955		1956		1957		1958		1959	
	Value	Percent of total								
	\$ mill	%								
Total construction	5.308	100.0	6.454	100.0	7.023	100.0	7.231	100.0	7.202	100.0
Total building construction	3.375	63.6	3.890	60.3	3.886	55.3	4.099	56.7	4.237	58.8
Residential	1.735	32.7	1.902	29.5	1.813	25.8	2.188	30.3	2.154	29.9
Industrial	398	7.5	604	9.4	611	8.7	391	5.4	378	5.2
Commercial	513	9.7	571	8.8	656	9.3	709	9.8	783	10.9
Institutional	464	8.7	455	7.0	519	7.4	533	7.4	585	8.1
Other building	265	5.0	358	5.6	287	4.1	278	3.8	337	4.7
Total engineering	1.933	36.4	2.564	39.7	3.137	44.7	3.132	43.3	2.965	41.2
Marine construction	76	1.4	118	1.8	158	2.2	156	2.2	119	1.7
Road, highway and aerodrome construction	519	9.8	618	9.6	709	10.1	750	10.4	800	11.2
Waterworks and sewage systems ..	149	2.8	184	2.9	200	2.8	195	2.7	226	3.1
Dams and irrigation	39	0.7	68	1.1	86	1.2	52	0.7	51	0.7
Electric power construction	338	6.4	455	7.0	508	7.2	536	7.4	471	6.5
Railway, telephone and telegraph construction	313	5.9	363	5.6	405	5.8	407	5.6	478	6.6
Gas and oil facilities	339	6.4	531	8.2	741	10.7	679	9.4	481	6.7
Other engineering construction	160	3.0	227	3.5	330	4.7	357	4.9	339	4.7

¹ Actual 1955-1957, preliminary 1958, intentions 1959.

Labour and Material Content

It is estimated that 596,503 full-time workers will be required to carry out the 1959 construction program and that the value of this labour will be \$2,372 million or 33 per cent of the total value of work. The estimated cost of material required for the program is \$3,425 million, about 48 per cent of the total. This proportion has remained relatively constant over the past seven years.

Variations between the figures contained in Tables 5 and 6 and those in previous publications for the years 1955 and 1956 result from a revision of new and repair housing expenditures for these years. The procedures used in making these estimates are outlined on page 45.

TABLE 4. Value of Construction Work Performed by Type of Structure, Total 1955-1959¹

Type of structure	1955	1956	1957	1958	1959
thousands of dollars					
Total value of construction	5,308,229	6,454,256	7,023,058	7,231,089	7,201,980
Total building construction	3,375,405	3,890,156	3,886,525	4,099,026	4,236,625
Residential	1,734,906	1,902,300	1,813,000	2,188,300	2,154,106
Industrial	398,087	604,077	610,670	390,782	377,843
2. Factories, plants, workshops, food canneries	337,126	476,900	443,073	305,678	298,881
3. Mine and mine mill buildings	32,867	89,341	127,790	46,045	34,416
4. Railway stations, offices, roadway buildings	15,800	22,012	22,719	23,393	27,476
5. Railway shops, engine houses, water and fuel stations	12,294	15,824	17,088	15,666	17,070
Commercial	513,491	571,294	656,196	709,076	783,491
6. Warehouses, storehouses, refrigerated storage, etc.	83,698	89,743	90,899	77,423	82,653
7. Grain elevators	15,754	18,697	19,776	22,207	23,683
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	32,830	51,156	67,393	49,300	47,993
9. Office buildings	151,797	183,616	223,653	292,776	327,349
10. Stores, retail and wholesale	167,812	140,397	165,246	185,452	211,644
11. Garages and service stations	39,601	56,269	59,291	52,261	82,253
12. Theatres, arenas, amusement and recreational buildings	20,006	29,222	27,684	26,308	26,783
13. Laundries and dry cleaning establishments	1,993	2,194	2,254	3,349	1,133
Institutional	463,732	454,982	519,191	533,394	584,591
14. Schools and other educational buildings	222,008	229,887	284,985	290,391	307,452
15. Churches and other religious buildings	40,536	41,259	48,708	57,333	48,074
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	146,368	134,868	136,649	142,949	179,038
17. Other institutional buildings	54,820	48,968	48,849	42,721	50,027
Other building construction	265,195	357,503	287,468	277,474	336,600
18. Farm buildings (excluding dwellings)	138,294	157,458	146,776	157,686	161,614
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	26,738	87,228	53,108	44,428	56,855
20. Aeroplane hangars	6,863	9,299	12,216	9,975	29,593
21. Passenger terminals, bus, boat or air	1,669	4,553	7,738	21,589	23,301
22. Armouries, barracks, drill halls, etc.	66,152	43,549	27,179	17,188	17,718
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	17,365	31,387	22,197	12,778	14,821
24. Other building construction	8,114	24,031	18,254	13,830	32,898
Total engineering construction	1,932,824	2,564,100	3,136,533	3,132,063	2,965,355
Marine construction	76,222	117,570	158,158	156,291	110,487
25. Docks, wharves, piers, breakwaters	29,561	37,989	43,131	54,495	64,556
26. Retaining walls, embankments, ripraping	2,553	2,395	2,136	3,289	959
27. Canals and waterways	4,908	22,427	73,824	30,529	9,422
28. Dredging and pile driving	19,488	20,847	20,905	64,962	38,931
29. Dyke construction	5,679	17,796	1,386	105	103
30. Logging booms	3,675	2,619	1,794	1,003	1,144
31. Other marine construction	10,358	13,497	14,982	1,908	4,372

¹ Actual 1955-1957, Preliminary 1958, Intentions 1959.

TABLE 4. Value of Construction Work Performed by Type of Structure, Total 1955-1959 — Concluded

Type of structure	1955	1956	1957	1958	1959
thousands of dollars					
Road, highway and aerodrome construction	519,259	618,038	708,780	749,518	799,748
32. Hard surfaced or paved streets, highways, parking lots, etc.	237,915	304,152	361,786	405,153	438,262
33. Gravel or stone streets, highways, roads, parking lots, etc.	153,008	199,808	210,775	222,241	227,598
34. Dirt, clay or other streets, roads, parking lots, etc.	55,518	54,421	57,812	53,371	61,969
35. Grading, scraping, oiling, filling	39,894	30,050	29,250	11,284	11,194
36. Sidewalks, paths	17,001	16,448	17,567	22,176	21,760
37. Aerodromes, landing fields, runways, tarmac	15,923	13,159	31,590	35,293	38,965
Waterworks and sewage systems	146,648	184,113	200,108	195,384	226,223
38. Tile drains, drainage ditches, storm sewers	27,223	21,332	23,587	18,143	18,644
39. Water mains, hydrants and services	57,854	71,344	76,823	69,947	80,526
40. Sewage systems and connections	54,373	77,511	88,132	92,848	114,816
41. Pumping stations, water	5,669	11,811	9,150	8,432	9,583
42. Water storage tanks	3,529	2,115	2,416	6,014	2,654
Dams and irrigation	38,949	67,547	85,932	52,110	50,543
43. Dams and reservoirs	25,795	51,206	70,915	28,348	20,772
44. Irrigation and land reclamation projects	13,154	16,341	15,017	23,762	29,771
Electric power construction	338,035	454,561	507,554	536,089	470,602
45. Electric power generating plants, including water conveying and controlling structures	123,818	212,035	254,627	250,587	212,065
46. Electric transformer stations	33,641	44,152	45,471	62,514	64,826
47. Power transmission and distribution lines, trolley wires	170,914	189,740	197,028	210,007	180,673
48. Street lighting	9,662	8,634	10,428	12,981	13,038
Railway, telephone and telegraph	312,498	363,401	405,436	406,920	478,497
49. Railway tracks and roadbed	194,618	232,979	261,167	252,516	303,634
50. Signals and interlockers	6,284	9,875	11,321	10,866	15,024
51. Telegraph and telephone lines, underground and marine cables	111,596	120,547	132,948	143,538	159,839
Gas and oil facilities	339,104	531,489	740,481	678,450	481,270
52. Gas mains and services	14,436	38,472	61,786	57,482	48,278
53. Pumping stations, oil	4,947	7,075	15,302	7,365	2,303
54. Pumping stations, gas	755	4,776	16,844	22,790	19,781
55. Oil storage tanks	17,805	20,407	28,333	21,611	25,547
56. Gas storage tanks	1,627	3,450	1,769	1,125	510
57. Oil pipe lines	23,264	33,325	50,215	24,837	7,054
58. Gas pipe lines	26,503	132,893	230,797	218,279	48,354
59. Oil wells	146,144	191,092	166,081	150,536	163,476
60. Gas wells	14,605	11,612	23,143	22,478	27,126
61. Oil refinery — processing units	86,484	76,657	110,907	121,370	114,519
62. Natural gas cleaning plants	2,534	11,730	35,304	30,577	24,324
Other engineering construction	160,109	227,381	330,084	357,301	338,985
63. Bridges, trestles, culverts, overpasses, viaducts	86,567	122,005	168,103	218,860	198,617
64. Tunnels and subways	3,290	3,340	53,619	40,140	22,135
65. Incinerators	1,664	4,781	957	2,169	3,438
66. Park systems, landscaping, sodding, etc.	6,042	6,941	6,350	13,918	13,720
67. Swimming pools, tennis courts, outdoor recreation facilities	1,623	2,373	2,545	3,367	2,544
68. Mine shafts and other below surface workings	24,885	47,836	55,355	37,539	27,475
69. Fences, snowsheds, signs, guard rails	17,752	18,681	18,826	16,750	17,169
70. Other engineering construction	18,286	21,424	24,329	24,558	53,887

TABLE 5. Labour Content and Cost of Materials Used 1955-1959¹
by Provinces

Province	Labour content		Cost of materials used	Value of work performed		
	No.	Value				
thousands of dollars						
Canada:						
1955	533,803	1,786,554	2,539,783	5,308,229		
1956	591,983	2,137,149	3,112,821	6,453,600		
1957	591,055	2,309,696	3,309,686	7,023,058		
1958	590,643	2,363,955	3,423,727	7,231,089		
1959	596,503	2,371,752	3,424,567	7,201,980		
Newfoundland:						
1955	10,022	28,324	35,710	77,459		
1956	11,155	35,308	32,623	83,200		
1957	9,875	32,377	43,113	90,393		
1958	10,380	32,730	42,259	92,152		
1959	9,483	29,367	37,356	82,951		
Prince Edward Island:						
1955	2,418	5,359	7,249	17,179		
1956	2,260	6,473	9,118	19,300		
1957	1,769	5,512	7,299	17,095		
1958	2,409	7,775	10,180	24,458		
1959	2,896	9,465	12,152	29,405		
Nova Scotia:						
1955	17,984	48,251	70,253	142,128		
1956	19,649	57,213	77,681	162,100		
1957	20,087	59,954	76,580	164,878		
1958	19,294	59,233	75,591	164,093		
1959	22,365	69,261	88,567	190,907		
New Brunswick:						
1955	19,506	52,163	73,324	153,729		
1956	20,317	58,248	90,451	168,900		
1957	16,836	52,082	68,353	143,958		
1958	18,483	56,851	76,115	161,754		
1959	21,832	67,232	89,424	196,398		
Quebec:						
1955	132,622	420,018	653,194	1,307,183		
1956	148,243	493,979	784,619	1,545,700		
1957	146,727	528,953	836,203	1,661,552		
1958	146,687	551,609	879,988	1,742,922		
1959	149,006	558,573	885,725	1,749,383		
Ontario:						
1955	187,783	650,244	897,989	1,867,835		
1956	197,092	738,484	1,072,506	2,189,600		
1957	207,945	847,896	1,197,947	2,507,011		
1958	219,362	906,156	1,283,546	2,692,740		
1959	212,016	873,578	1,232,034	2,563,604		
Manitoba:						
1955	29,266	90,648	123,739	257,333		
1956	31,459	105,019	148,490	307,500		
1957	27,246	100,496	160,366	327,306		
1958	27,337	104,997	173,234	343,482		
1959	31,600	120,854	193,691	392,552		

¹ Actual 1955-1957, Preliminary 1958, Intentions 1959.

TABLE 5. Labour Content and Cost of Materials Used 1955-1959¹
by Provinces — Concluded

Province	Labour content		Cost of materials used	Value of work performed
	No.	Value		
thousands of dollars				
Saskatchewan:				
1955	27,547	91,646	131,228	280,315
1956	29,755	110,204	169,595	367,000
1957	27,773	107,446	157,370	353,560
1958	27,974	114,954	170,569	376,046
1959	27,687	113,129	168,434	367,471
Alberta:				
1955	52,617	187,178	284,360	623,305
1956	60,174	225,670	325,543	731,700
1957	57,866	223,460	292,052	707,005
1958	60,022	251,973	332,523	803,692
1959	59,785	250,280	332,295	799,568
British Columbia:				
1955	54,038	212,723	262,737	581,753
1956	71,879	306,551	402,195	878,600
1957	74,931	351,520	470,403	1,050,300
1958	58,675	277,877	379,722	829,750
1959	59,833	280,013	384,889	829,741

¹ Actual 1955-1957, Preliminary 1958, Intentions 1959.

TABLE 6. Labour Content and Cost of Materials Used 1955-1959¹
by Contractors and Others

Type	Labour content		Cost of materials used	Value of work performed
	No.	Value		
thousands of dollars				
Total:				
1955	533,803	1,786,554	2,539,783	5,308,229
1956	591,983	2,137,148	3,112,821	6,453,600
1957	591,055	2,309,696	3,309,686	7,023,058
1958	590,643	2,363,955	3,423,727	7,231,089
1959	596,503	2,371,752	3,424,567	7,201,980
Contractors:				
1955	343,107	1,212,257	1,866,444	3,873,478
1956	395,115	1,498,959	2,386,540	4,838,950
1957	397,618	1,634,932	2,523,244	5,321,378
1958	398,871	1,676,227	2,627,737	5,501,258
1959	396,993	1,657,890	2,598,693	5,403,951
Utilities:				
1955	75,707	239,877	305,097	602,942
1956	76,601	271,271	353,771	699,786
1957	77,947	296,918	396,881	775,261
1958	77,187	304,729	404,192	794,513
1959	80,958	318,560	423,596	829,585
Governments:				
1955	61,176	167,492	131,285	361,725
1956	65,698	191,629	138,478	414,271
1957	59,823	180,697	129,445	396,325
1958	61,501	192,204	137,388	418,847
1959	64,632	201,787	143,391	443,069
Others:				
1955	53,813	166,928	238,957	470,084
1956	54,569	175,290	254,032	500,593
1957	55,667	197,149	260,116	530,094
1958	53,084	190,795	254,410	516,471
1959	53,920	193,515	258,887	525,375

¹ Actual 1955-1957, Preliminary 1958, Intentions 1959.

VALUE OF CONSTRUCTION WORK PERFORMED - CANADA 1957-1959¹

TABLE 7. By Type of Structure New and Repair

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	5,784,577	1,238,481	7,023,058	5,856,518	1,274,571	7,231,089	5,864,276	1,337,704	7,201,980
Total building construction	3,151,046	735,479	3,886,525	3,344,049	754,977	4,099,026	3,456,435	780,190	4,236,625
Residential	1,430,000	383,000	1,813,000	1,781,200	407,100	2,188,300	1,727,700	426,400	2,154,100
Industrial	493,545	117,125	610,670	285,288	105,494	390,782	265,948	111,895	377,843
2. Factories, plants, workshops, food canneries	355,454	87,619	443,073	227,881	77,797	305,678	217,594	81,287	298,881
3. Mine and mine mill buildings	120,507	7,283	127,790	38,648	7,397	46,045	27,055	7,361	34,416
4. Railway stations, offices, roadway buildings	10,056	12,663	22,719	11,148	12,245	23,393	13,417	14,059	27,476
5. Railway shops, engine houses, water and fuel stations	7,528	9,560	17,088	7,611	8,055	15,666	7,882	9,188	17,070
Commercial	560,009	96,187	656,196	611,925	97,151	709,076	685,768	97,723	783,491
6. Warehouses, storehouses, refrigerated storage, etc.	78,162	12,737	90,899	66,089	11,334	77,423	71,194	11,459	82,653
7. Grain elevators	13,355	8,421	19,776	16,473	5,734	22,207	18,140	5,543	23,683
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	53,889	13,704	67,393	34,879	14,421	49,300	35,708	12,285	47,993
9. Office buildings	193,454	30,199	223,653	260,136	32,640	292,776	292,511	34,838	327,349
10. Stores, retail and wholesale	144,261	20,985	165,246	163,760	21,692	185,452	189,207	22,437	211,644
11. Garages and service stations	50,784	8,507	59,291	45,030	7,231	52,261	54,555	7,698	62,253
12. Theatres, arenas, amusement and recreational buildings	24,926	2,758	27,684	23,110	3,198	26,308	24,109	2,674	26,783
13. Laundries and dry cleaning establishments	1,378	876	2,254	2,448	901	3,349	344	789	1,133
Institutional	464,558	54,633	519,191	476,418	56,976	533,394	528,464	56,127	584,591
14. Schools and other educational buildings	259,984	25,001	284,985	263,286	27,105	290,391	280,282	27,170	307,452
15. Churches and other religious buildings	40,655	8,053	48,708	49,845	7,488	57,333	41,550	6,524	48,074
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	121,008	15,641	136,649	127,733	15,216	142,949	163,093	15,945	179,038
17. Other institutional buildings	42,911	5,938	48,849	35,554	7,167	42,721	43,539	6,488	50,027
Other building construction	202,934	84,534	287,468	188,218	88,256	277,474	248,555	88,045	336,600
18. Farm buildings (excluding dwellings)	86,484	60,292	146,776	92,293	65,393	157,686	96,285	65,329	161,614
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	50,886	2,222	53,108	42,316	2,112	44,428	54,571	2,284	56,855
20. Aeroplane hangars	9,377	2,839	12,216	7,507	2,468	9,975	27,103	2,490	29,593
21. Passenger terminals, bus, boat or air	7,195	543	7,738	21,125	484	21,589	22,768	533	23,301
22. Armouries, barracks, drill halls, etc.	14,970	12,209	27,179	5,012	12,176	17,188	5,471	12,247	17,718
23. Bunkhouses, dormitories, camp cookeries, bush depots and caps	17,192	5,005	22,197	8,707	4,071	12,778	10,916	3,705	14,621
24. Other building construction	16,830	1,424	18,254	12,258	1,572	13,830	31,441	1,457	32,898
Total engineering construction	2,633,531	503,002	3,136,533	2,612,469	519,594	3,132,063	2,407,841	557,514	2,965,355
Marine construction	145,270	12,888	158,158	143,277	13,014	156,291	106,097	13,390	119,487
25. Docks, wharves, piers, breakwaters	36,301	6,830	43,131	48,223	6,272	54,495	57,827	6,729	64,556
26. Retaining walls, embankments, ripraping	1,361	775	2,136	2,481	808	3,289	183	776	959
27. Canals and waterways	72,593	1,231	73,824	29,365	1,164	30,529	8,285	1,137	9,422
28. Dredging and pile driving	19,244	1,661	20,905	61,619	3,343	64,962	35,544	3,367	38,931
29. Dyke construction	1,273	113	1,386	3	102	105	4	99	103
30. Logging booms	798	996	1,794	275	728	1,003	465	679	1,144
31. Other marine construction	13,700	1,282	14,982	1,311	597	1,908	3,789	583	4,372

¹ Actual 1957, Preliminary 1958, Intentions 1959.

TABLE 7. By Type of Structure New and Repair — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	Total	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	550,127	158,653	708,780	581,476	168,042	749,518	622,158	177,590	799,748
32. Hard surfaced or paved streets, highways, parking lots, etc.	303,105	58,681	361,786	335,070	70,083	405,153	358,206	80,056	438,262
33. Gravel or stone streets, highways, roads, parking lots, etc.	141,952	68,823	210,775	148,946	73,295	222,241	154,103	73,495	227,598
34. Dirt, clay or other streets, roads, parking lots, etc.	35,026	22,786	57,812	36,388	16,983	53,371	45,926	16,043	61,969
35. Grading, scraping, oiling, filling	25,202	4,048	29,250	8,286	2,998	11,284	7,945	3,249	11,194
36. Sidewalks, paths	14,261	3,306	17,567	18,504	3,672	22,176	18,038	3,722	21,760
37. Aerodromes, landing fields, runways, tarmac	30,581	1,009	31,590	34,282	1,011	35,293	37,940	1,025	38,965
Waterworks and sewage systems	172,391	27,717	200,108	164,890	30,494	195,384	193,130	33,093	226,223
38. Tile drains, drainage ditches, storm sewers	19,630	3,957	23,587	13,006	5,137	18,143	13,768	4,876	18,644
39. Water mains, hydrants and services	61,514	15,309	76,823	54,950	14,997	69,947	64,161	16,365	80,526
40. Sewage systems and connections	81,005	7,127	88,132	83,892	8,956	92,848	105,365	9,451	114,816
41. Pumping stations, water	7,978	1,172	9,150	7,339	1,093	8,432	7,248	2,335	9,583
42. Water storage tanks	2,264	152	2,416	5,703	311	6,014	2,588	66	2,654
Dams and irrigation	80,911	5,021	85,932	45,504	6,606	52,110	44,427	6,116	50,543
43. Dams and reservoirs	68,457	2,458	70,915	24,824	3,524	28,348	17,794	2,978	20,772
44. Irrigation and land reclamation projects....	12,454	2,563	15,017	20,680	3,082	23,762	26,633	3,138	29,771
Electric power construction	463,028	44,526	507,554	493,006	43,083	536,089	423,552	47,050	470,602
45. Electric power generating plants, including water conveying and controlling structures	244,444	10,183	254,627	243,268	7,319	250,587	203,241	8,824	212,065
46. Electric transformer stations	40,310	5,161	45,471	56,330	6,184	62,514	58,286	6,540	64,826
47. Power transmission and distribution lines, trolley wires	171,219	25,809	197,028	184,275	25,732	210,007	152,940	27,733	180,673
48. Street lighting	7,055	3,373	10,428	9,133	3,848	12,981	9,085	3,953	13,038
Railway, telephone and telegraph	244,756	160,680	405,436	245,975	160,945	406,920	296,199	182,298	478,497
49. Railway tracks and roadbed	141,098	120,069	261,167	132,740	119,776	252,516	166,434	137,200	303,634
50. Signals and interlockers	5,604	5,717	11,321	5,048	5,818	10,866	8,442	6,582	15,024
51. Telegraph and telephone lines, underground and marine cables	98,054	34,894	132,948	108,187	35,351	143,538	121,323	38,516	159,839
Gas and oil facilities	699,841	40,640	740,481	639,009	39,441	678,450	438,150	43,120	481,270
52. Gas mains and services	58,975	2,811	61,786	55,041	2,441	57,482	45,582	2,694	48,276
53. Pumping stations, oil	13,622	1,680	15,302	5,800	1,565	7,365	931	1,372	2,303
54. Pumping stations, gas	16,792	52	16,844	22,487	303	22,790	19,493	288	19,781
55. Oil storage tanks	25,162	3,171	28,333	18,051	3,560	21,611	21,634	3,913	25,547
56. Gas storage tanks	1,629	140	1,769	1,067	58	1,125	449	61	510
57. Oil pipe lines	48,590	1,625	50,215	23,442	1,395	24,837	5,535	1,519	7,054
58. Gas pipe lines	229,767	1,030	230,797	216,161	2,118	218,279	46,036	2,318	48,354
59. Oil wells	160,212	5,869	166,081	145,510	5,026	150,536	158,138	5,338	163,476
60. Gas wells	22,657	486	23,143	22,154	324	22,478	26,757	369	27,126
61. Oil refinery—processing units	87,736	23,171	110,907	99,507	21,863	121,370	90,389	24,130	114,519
62. Natural gas cleaning plants	34,699	605	35,304	29,789	788	30,577	23,206	1,118	24,324
Other engineering construction	277,207	52,877	330,084	299,332	57,969	357,301	284,128	54,857	338,985
63. Bridges, trestles, culverts, overpasses, viaducts	139,726	28,377	168,103	187,889	30,971	218,860	171,612	27,005	198,617
64. Tunnels and subways	53,243	376	53,619	39,583	557	40,140	21,566	569	22,135
65. Incinerators	853	104	957	797	1,372	2,169	2,093	1,345	3,438
66. Park systems, landscaping, sodding, etc.	3,599	2,751	6,350	9,518	4,400	13,918	9,857	3,863	13,720
67. Swimming pools, tennis courts, outdoor recreation facilities	1,927	618	2,545	2,458	909	3,367	1,542	1,002	2,544
68. Mine shafts and other below surface workings	52,366	2,989	55,355	34,915	2,624	37,539	24,281	3,194	27,475
69. Fences, snowsheds, signs, guard rails	8,875	9,951	18,826	7,273	9,477	16,750	7,248	9,921	17,169
70. Other engineering construction	16,618	7,711	24,329	16,899	7,659	24,558	45,929	7,958	53,887

TABLE 8. Dollar and Percentage Change by Type of Structure

Type of structure	Change 1957 to 1958		Change 1958 to 1959		Type of structure	Change 1957 to 1958		Change 1958 to 1959	
	\$ mill.	%	\$ mill.	%		\$ mill.	%	\$ mill.	%
Total value of construction	208	3.0	- 29	- 0.4	Road, highway and aerodrome construction	41	5.7	50	6.7
Total building construction	213	5.5	137	3.4	32. Hard surfaced or paved streets, highways, parking lots, etc.	43	-	33	-
Residential	375	37.0	- 34	- 1.6	33. Gravel or stone streets, highways, roads, parking lots, etc.	11	-	5	-
Industrial	-220	-36.0	- 13	- 3.3	34. Dirt, clay or other streets, roads, parking lots, etc.	- 4	-	9	-
2. Factories, plants, workshops, food canneries	-137	-	- 7	-	35. Grading, scraping, oiling, filling	- 18	-	0	-
3. Mine and mine mill buildings	- 82	-	- 12	-	36. Sidewalks, paths	5	-	0	-
4. Railway stations, offices, roadway buildings	1	-	4	-	37. Aerodromes, landing fields, runways, tarmac	4	-	4	-
5. Railway shops, engine houses, water and fuel stations	- 1	-	1	-	Waterworks and sewage systems	- 5	- 2.4	31	15.8
Commercial	53	8.1	74	10.5	38. Tile drains, drainage ditches, storm sewers	- 5	-	1	-
6. Warehouses, storehouses, refrigerated storage, etc.	- 13	-	5	-	39. Water mains, hydrants and services	- 7	-	11	-
7. Grain elevators	2	-	1	-	40. Sewage systems and connections	5	-	22	-
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	- 18	-	- 1	-	41. Pumping stations, water	- 1	-	1	-
9. Office buildings	69	-	35	-	42. Water storage tanks	4	-	- 3	-
10. Stores, retail and wholesale	20	-	26	-	Dams and Irrigation	- 34	-39.4	- 2	3.0
11. Garages and service stations	- 7	-	10	-	43. Dams and reservoirs	- 43	-	- 8	-
12. Theatres, arenas, amusement and recreational buildings	- 1	-	0	-	44. Irrigation and land reclamation projects	9	-	6	-
13. Laundries and dry cleaning establishments	1	-	- 2	-	Electric power construction	29	5.6	- 65	-12.2
Institutional	14	2.7	51	9.6	45. Electric power generating plants, including water conveying and controlling structures	- 4	-	- 39	-
14. Schools and other educational buildings	5	-	17	-	46. Electric transformer stations	17	-	2	-
15. Churches and other religious buildings	9	-	- 9	-	47. Power transmission and distribution lines, trolley wires	13	-	- 29	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	6	-	36	-	48. Street lighting	3	-	0	-
17. Other institutional buildings	- 6	-	7	-	Railway, telephone and telegraph	1	0.4	72	17.6
Other building construction	- 10	- 3.5	59	21.3	49. Railway tracks and roadbed	- 9	-	51	-
18. Farm buildings (excluding dwellings)	11	-	4	-	50. Signals and interlockers	0	-	4	-
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	- 9	-	12	-	51. Telegraph and telephone lines, underground and marine cables	11	-	16	-
20. Aeroplane hangers	- 2	-	20	-	Gas and oil facilities	- 62	- 8.4	-197	-29.1
21. Passenger terminals, bus, boat or air	14	-	2	-	52. Gas mains and services	- 4	-	- 9	-
22. Armouries, barracks, drill halls, etc.	- 10	-	1	-	53. Pumping stations, oil	- 8	-	- 5	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	- 9	-	2	-	54. Pumping stations, gas	6	-	- 3	-
24. Other building construction	- 4	-	19	-	55. Oil storage tanks	- 7	-	4	-
Total engineering construction	- 4	- 0.1	-167	- 5.3	56. Gas storage tanks	- 1	-	- 1	-
Marine construction	- 2	- 1.2	- 37	-23.5	57. Oil pipe lines	- 25	-	- 18	-
25. Docks, wharves, piers, breakwaters	11	-	10	-	58. Gas pipe lines	- 13	-	-170	-
26. Retaining walls, embankments, ripraping	1	-	- 2	-	59. Oil wells	- 16	-	13	-
27. Canals and waterways	- 43	-	- 21	-	60. Gas wells	- 1	-	5	-
28. Dredging and pile driving	44	-	- 26	-	61. Oil refinery - processing units	10	-	- 7	-
29. Dyke construction	- 1	-	0	-	62. Natural gas cleaning plants	- 5	-	- 6	-
30. Logging booms	- 1	-	0	-	Other engineering construction	27	8.2	- 18	- 5.1
31. Other marine construction	- 13	-	2	-	63. Bridges, trestles, culverts, overpasses, viaducts	51	-	- 20	-
					64. Tunnels and subways	- 13	-	- 18	-
					65. Incinerators	1	-	1	-
					66. Park systems, landscaping, sodding, etc.	8	-	0	-
					67. Swimming pools, tennis courts, outdoor recreation facilities	1	-	- 1	-
					68. Mine shafts and other below surface workings	- 18	-	- 10	-
					69. Fences, snowsheds, signs, guard rails	- 2	-	0	-
					70. Other engineering construction	0	-	29	-

TABLE 9. By Principal Types of Construction for Industry or Sector

	1957			1958			1959		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
thousands of dollars									
Total	3,886,525	3,136,533	7,023,058	4,099,026	3,132,063	7,231,089	4,236,625	2,965,355	7,201,980
Agriculture and fishing	143,245	17,513	160,758	155,432	18,308	173,740	155,290	18,298	173,588
Forestry	8,827	40,069	48,896	6,827	29,242	36,069	6,478	33,801	40,279
Mining, quarrying and oil wells	143,637	285,586	429,223	50,159	239,576	289,735	44,026	250,082	294,108
Construction	17,032	2,591	19,623	16,756	2,544	19,300	16,680	2,520	19,200
Manufacturing	437,786	198,300	636,086	311,453	196,839	508,292	288,214	165,081	453,295
Utilities	133,856	1,611,069	1,744,925	129,965	1,545,558	1,675,543	167,513	1,311,451	1,478,964
Trade—Wholesale and retail	219,665	21,294	240,959	205,953	16,087	222,040	219,218	22,132	241,350
Finance, insurance and real estate	110,120	10,321	120,441	157,819	4,034	161,853	212,096	5,932	218,028
Commercial services	82,512	379	82,891	66,215	555	66,770	64,597	297	64,894
Housing	1,813,000	—	1,813,000	2,188,300	—	2,188,300	2,154,100	—	2,154,100
Institutional services	452,589	2,574	455,163	482,609	1,571	484,180	533,853	798	534,651
Government departments	324,256	946,837	1,271,093	327,518	1,077,749	1,405,267	374,560	1,154,963	1,529,523

TABLE 10. Dollar and Percentage Change by Principal Type of Construction for Industry or Sector

	Change 1957 to 1958						Change 1958 to 1959					
	Building		Engineering		Total		Building		Engineering		Total	
	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%
Total	213	5.5	- 4	- 0.1	208	3.0	138	3.4	- 167	- 5.3	- 29	- 0.4
Agriculture and fishing	12	8.5	1	4.5	13	8.1	0	- 0.1	0	- 0.1	0	- 0.1
Forestry	- 2	-22.7	- 11	-27.0	- 13	-26.2	0	- 5.1	5	15.6	4	11.7
Mining, quarrying and oil wells	- 93	-65.1	- 46	-16.1	-139	-32.5	- 6	-12.2	11	4.4	4	1.5
Construction	0	- 1.6	0	- 1.8	0	- 1.6	0	- 0.5	0	- 0.9	0	- 0.5
Manufacturing	-126	-28.9	- 1	- 0.7	128	-20.1	- 23	- 7.5	- 32	-16.1	- 55	-10.8
Utilities	- 4	- 2.9	- 66	- 4.1	- 69	- 4.0	38	28.9	-234	-15.1	-197	-11.7
Trade—Wholesale and retail	- 14	- 6.2	- 5	-24.5	- 19	- 7.9	13	6.4	6	37.6	19	8.7
Finance, insurance and real estate	48	43.3	- 6	-60.9	41	34.4	54	34.4	2	47.1	56	34.7
Commercial services	- 16	-19.8	0	46.4	- 16	-19.4	- 2	- 2.4	0	-46.5	- 2	- 2.8
Housing	375	20.7	0	0.0	375	20.7	- 34	- 1.6	0	0.0	- 34	- 1.6
Institutional services	30	6.6	- 1	-39.0	29	6.4	51	10.6	- 1	-49.2	50	10.4
Government departments	3	1.0	131	13.8	134	10.6	47	14.4	77	7.2	124	8.8

Value of Construction Work Performed by Type of Structure — Industry or Sector 1957-1959¹TABLE 11. Primary Industries²

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	544,711	113,789	658,500	404,545	114,289	518,844	412,600	114,375	527,175
Total building construction	237,616	75,125	312,741	149,871	79,303	229,174	143,517	78,957	222,474
Residential	—	—	—	—	—	—	—	—	—
Industrial	126,984	8,768	135,750	43,959	8,445	52,404	36,196	6,570	44,768
2. Factories, plants, workshops, food canneries	6,387	1,518	7,905	5,438	1,580	7,018	9,865	1,466	11,331
3. Mine and mine mill buildings	120,469	7,241	127,710	38,515	6,834	45,349	26,324	7,084	33,408
4. Railway stations, offices, roadway buildings	128	7	135	6	16	22	7	5	12
5. Railway shops, engine houses, water and fuel stations	—	—	—	—	15	15	—	15	15
Commercial	17,319	2,434	19,753	11,559	2,543	14,102	11,609	2,460	14,069
6. Warehouses, storehouses, refrigerated storage, etc.	6,569	1,385	7,954	5,362	1,567	6,929	5,916	1,508	7,424
7. Grain elevators	—	—	—	—	—	—	—	—	—
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	293	17	310	119	12	131	75	8	83
9. Office buildings	7,755	771	8,526	4,663	702	5,365	4,256	692	4,948
10. Stores, retail and wholesale	74	9	83	65	10	75	—	8	8
11. Garages and service stations	1,210	225	1,435	1,040	237	1,277	916	231	1,147
12. Theatres, arenas, amusement and recreational buildings	1,417	25	1,442	310	12	322	446	12	458
13. Laundries and dry cleaning establishments	1	2	3	—	3	3	—	1	1
Institutional	359	22	381	16	19	35	737	11	748
14. Schools and other educational buildings	65	5	70	6	1	7	99	2	101
15. Churches and other religious buildings	2	3	5	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	290	14	304	10	18	28	638	9	647
17. Other institutional buildings	2	—	2	—	—	—	—	—	—
Other building construction	92,954	63,903	156,857	94,337	68,296	162,633	94,975	67,916	162,891
18. Farm buildings (excluding dwellings)	81,491	59,920	141,411	88,420	65,027	153,447	88,340	64,968	153,308
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	56	45	101	90	26	116	72	32	104
20. Aeroplane hangars	4	1	5	—	—	—	—	—	—
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	26	—	26	258	—	258	210	—	210
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	11,266	3,831	15,097	5,504	3,109	8,613	6,246	2,796	9,042
24. Other building construction	111	106	217	65	134	199	107	120	227
Total engineering construction	307,095	38,664	345,759	254,674	34,996	268,670	266,283	35,418	304,701
Marine construction	10,721	2,614	13,335	7,107	4,061	11,168	5,987	3,866	9,945
25. Docks, wharves, piers, breakwaters	2,895	1,003	3,898	1,849	935	2,784	1,263	1,022	2,285
26. Retaining walls, embankments, ripraping	240	140	380	23	245	268	9	212	221
27. Canals and waterways	430	100	530	22	71	93	81	33	114
28. Dredging and pile driving	6,272	42	6,314	4,900	2,070	6,970	3,934	2,047	5,981
29. Dyke construction	—	—	—	—	14	14	—	—	—
30. Logging booms	709	802	1,511	251	645	896	429	575	1,004
31. Other marine construction	175	527	702	62	81	143	271	69	340

¹ Actual 1957, Preliminary 1958, Intentions 1959.² Primary Industries include Agriculture, Fishing, Forestry, Mining, Quarrying, Oil Wells and the Construction Industry.

TABLE 11. Primary Industries — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	23,829	12,865	36,494	17,725	10,036	27,761	23,674	9,589	33,263
32. Hard surfaced or paved streets, highways, parking lots, etc.	236	254	490	163	90	253	457	82	539
33. Gravel or stone streets, highways, roads, parking lots, etc.	7,028	3,953	10,981	6,437	2,666	9,103	10,051	2,637	12,688
34. Dirt, clay or other streets, roads, parking lots, etc.	15,760	8,287	24,047	10,879	7,112	17,991	12,807	6,613	19,420
35. Grading, scraping, oiling, filling	639	136	775	203	155	358	281	244	525
36. Sidewalks, paths	50	2	52	32	—	32	25	—	25
37. Aerodromes, landing fields, runways, tarmac	116	33	149	11	13	24	53	13	66
Waterworks and sewage systems	6,541	537	7,078	2,414	470	2,884	6,314	497	6,811
38. Tile drains, drainage ditches, storm sewers	398	8	406	4	6	10	667	4	671
39. Water mains, hydrants and services	2,832	403	3,235	953	271	1,224	2,973	295	3,268
40. Sewage systems and connections	380	68	1,048	1,077	98	1,175	1,187	112	1,299
41. Pumping stations, water	1,770	55	1,825	335	89	424	1,195	76	1,271
42. Water storage tanks	561	3	564	45	6	51	292	10	302
Dams and irrigation	7,875	2,526	10,401	7,114	2,568	9,682	7,175	2,628	9,803
43. Dams and reservoirs	2,350	518	2,868	1,069	389	1,458	1,166	451	1,617
44. Irrigation and land reclamation projects	5,525	2,008	7,533	6,045	2,179	8,224	6,009	2,177	8,186
Electric power construction	6,148	671	6,819	1,802	589	2,391	1,344	660	2,004
45. Electric power generating plants, including water conveying and controlling structures	2,629	136	2,765	538	167	705	712	206	918
46. Electric transformer stations	1,572	50	1,622	380	78	458	231	73	304
47. Power transmission and distribution lines, trolley wires	1,886	463	2,349	822	319	1,141	313	356	669
48. Street lighting	61	22	83	62	25	87	88	25	113
Railway, telephone and telegraph	2,347	3,283	5,630	826	2,270	3,196	1,065	2,184	3,249
49. Railway tracks and roadbed	2,220	2,923	5,143	861	1,905	2,766	993	1,842	2,835
50. Signals and interlockers	—	1	1	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables	127	359	486	65	365	430	72	342	414
Gas and oil facilities	188,371	6,891	195,262	175,461	5,390	181,051	193,595	5,961	199,556
52. Gas mains and services	—	4	4	—	1	1	—	1	1
53. Pumping stations, oil	135	84	219	1,109	30	1,139	267	32	299
54. Pumping stations, gas	39	—	39	70	—	70	57	1	58
55. Oil storage tanks	2,211	296	2,507	3,492	163	3,655	4,228	160	4,388
56. Gas storage tanks	1	53	54	24	—	24	29	—	29
57. Oil pipe lines	467	16	483	408	8	416	598	8	606
58. Gas pipe lines	3,100	134	3,234	2,613	25	2,638	1,977	40	2,017
59. Oil wells	159,867	5,839	165,706	145,502	5,020	150,522	158,038	5,328	163,366
60. Gas wells	22,551	465	23,016	22,040	293	22,333	26,588	342	26,930
61. Oil refinery — processing units	—	—	—	31	50	81	270	39	309
62. Natural gas cleaning plants	—	—	—	172	—	172	1,543	10	1,553
Other engineering construction	61,263	9,477	70,740	42,125	8,412	51,537	30,120	9,841	40,070
63. Bridges, trestles, culverts, overpasses, viaducts	301	188	489	670	174	844	808	102	910
64. Tunnels and subways	276	1	277	54	—	54	—	—	—
65. Incinerators	8	1	9	20	1	21	—	1	1
66. Park systems, landscaping, sodding, etc.	155	69	224	28	33	61	9	34	43
67. Swimming pools, tennis courts, outdoor recreation facilities	2	12	14	3	13	18	6	10	16
68. Mine shafts and other below surface workings	50,940	2,944	53,884	32,108	2,619	34,727	21,952	3,190	25,142
69. Fences, snowsheds, signs, guard rails	4,169	4,775	8,944	4,091	5,188	9,279	4,034	5,258	9,292
70. Other engineering construction	5,412	1,487	6,899	5,151	1,384	6,535	3,320	1,346	4,666

TABLE 12. Manufacturing

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	520,344	115,742	636,086	402,507	105,785	508,292	341,451	111,844	433,296
Total building construction	353,542	84,244	437,786	234,875	76,578	311,453	208,178	80,036	288,214
Residential	—	—	—	—	—	—	—	—	—
Industrial	310,502	80,652	391,154	198,224	73,629	271,853	180,870	77,305	258,175
2. Factories, plants, workshops, food canneries	308,793	76,471	385,264	196,961	69,456	266,417	178,042	73,252	251,294
3. Mine and mine mill buildings	38	42	80	133	563	696	731	277	1,008
4. Railway stations, offices, roadway buildings	94	2	96	—	1	1	—	13	13
5. Railway shops, engine houses, water and fuel stations	1,577	4,137	5,714	1,130	3,609	4,739	2,097	3,763	5,860
Commercial	40,941	3,073	44,014	35,879	2,455	38,334	26,552	2,257	28,809
6. Warehouses, storehouses, refrigerated storage, etc.	20,219	1,204	21,423	16,561	1,003	17,564	12,875	926	13,801
7. Grain elevators	346	100	446	128	133	281	215	52	267
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	75	124	199	98	76	174	303	134	437
9. Office buildings	18,009	1,421	19,430	18,090	1,079	19,169	12,289	912	13,201
10. Stores, retail and wholesale	317	170	487	650	117	767	560	188	748
11. Garages and service stations	1,496	30	1,526	289	20	309	289	32	321
12. Theatres, arenas, amusement and recreational buildings	479	20	499	63	27	90	21	13	34
13. Laundries and dry cleaning establishments	—	4	4	—	—	—	—	—	—
Institutional	128	23	151	36	14	50	49	21	70
14. Schools and other educational buildings	112	1	113	18	—	18	43	—	43
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	16	20	36	18	14	32	6	21	27
17. Other institutional buildings	—	2	2	—	—	—	—	—	—
Other building construction	1,971	496	2,467	736	480	1,216	707	453	1,160
18. Farm buildings (excluding dwellings)	159	46	205	160	47	207	156	51	207
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	188	2	190	234	1	235	2	2	4
20. Aeroplane hangars	121	69	190	57	109	166	3	105	108
21. Passenger terminals, bus, boat or air	1	—	1	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	2	2	—	3	3	—	3	3
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,494	376	1,870	285	320	605	546	292	838
24. Other building construction	8	1	9	—	—	—	—	—	—
Total engineering construction	166,802	31,498	198,300	187,632	29,207	196,839	133,273	31,808	165,081
Marine construction	8,549	1,588	10,137	4,753	1,083	5,836	3,500	1,311	4,611
25. Docks, wharves, piers, breakwaters	7,577	859	8,436	4,507	745	5,252	3,135	954	4,089
26. Retaining walls, embankments, ripraping	129	22	151	88	13	101	104	5	109
27. Canals and waterways	159	49	208	—	1	1	13	—	13
28. Dredging and pile driving	494	181	675	138	210	348	185	218	403
29. Dyke construction	—	23	23	3	—	3	—	11	11
30. Logging booms	10	163	173	15	67	82	21	88	109
31. Other marine construction	180	291	471	2	47	49	42	35	77

TABLE 12. Manufacturing - Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	5,722	1,875	7,597	2,926	1,537	4,463	1,617	1,460	3,077
32. Hard surfaced or paved streets, highways, parking lots, etc.	2,680	955	3,635	1,355	833	2,188	878	706	1,584
33. Gravel or stone streets, highways, roads, parking lots, etc.	965	404	1,369	334	302	636	180	320	500
34. Dirt, clay or other streets, roads, parking lots, etc.	860	423	1,283	285	289	574	333	352	685
35. Grading, scraping, oiling, filling	1,144	69	1,213	877	78	955	57	59	116
36. Sidewalks, paths	5	22	27	72	26	98	169	13	182
37. Aerodromes, landing fields, runways, tarmac	68	2	70	3	9	12	-	10	10
Waterworks and sewage systems	6,167	1,065	7,232	3,067	1,111	4,178	2,784	804	3,588
38. Tile drains, drainage ditches, storm sewers	944	133	1,077	272	86	358	189	17	206
39. Water mains, hydrants and services	3,072	515	3,587	1,441	553	1,994	1,323	311	1,634
40. Sewage systems and connections	1,406	233	1,639	875	317	1,192	954	248	1,202
41. Pumping stations, water	390	137	527	296	144	440	212	212	424
42. Water storage tanks	355	47	402	183	11	194	106	16	122
Dams and irrigation	363	303	666	84	118	202	32	288	320
43. Dams and reservoirs	361	303	664	76	118	194	32	288	320
44. Irrigation and land reclamation projects	2	-	2	8	-	8	-	-	-
Electric power construction	7,221	995	8,216	6,314	568	6,882	2,625	803	3,428
45. Electric power generating plants, including water conveying and controlling structures	2,061	540	2,601	3,483	294	3,777	792	525	1,317
46. Electric transformer stations	2,907	189	3,096	1,648	71	1,719	1,201	64	1,265
47. Power transmission and distribution lines, trolley wires	2,224	251	2,475	1,095	183	1,278	560	174	734
48. Street lighting	29	15	44	88	20	108	72	40	112
Railway, telephone and telegraph	1,756	705	2,461	765	681	1,446	298	472	770
49. Railway tracks and roadbed	1,697	665	2,362	728	652	1,380	288	444	732
50. Signals and interlockers	-	1	1	1	-	1	9	-	9
51. Telegraph and telephone lines, underground and marine cables	59	39	98	36	29	65	1	28	29
Gas and oil facilities	132,542	24,534	157,076	145,531	23,721	169,252	119,165	26,390	145,555
52. Gas mains and services	178	10	188	632	12	644	98	9	107
53. Pumping stations, oil	241	39	280	41	10	51	28	5	33
54. Pumping stations, gas	26	5	31	3	5	8	2	2	4
55. Oil storage tanks	7,545	693	8,238	6,672	1,004	7,676	5,021	1,093	6,114
56. Gas storage tanks	788	2	790	1,026	4	1,030	319	4	323
57. Oil pipe lines	1,240	39	1,279	3,674	81	3,755	1,761	47	1,808
58. Gas pipe lines	4	17	21	4,467	22	4,489	130	48	178
59. Oil wells	317	17	334	8	6	14	100	10	110
60. Gas wells	6	4	10	24	14	38	24	8	32
61. Oil refinery - processing units	87,736	23,171	110,907	99,476	21,813	121,289	90,119	24,091	114,210
62. Natural gas cleaning plants	34,461	537	34,998	29,508	750	30,258	21,563	1,073	22,636
Other engineering construction	4,482	433	4,915	4,192	388	4,580	3,252	280	3,532
63. Bridges, trestles, culverts, overpasses, viaducts	439	41	480	638	73	711	416	41	457
64. Tunnels and subways	29	6	35	41	-	41	-	3	3
65. Incinerators	450	4	454	69	4	73	87	9	96
66. Park systems, landscaping, sodding, etc.	99	247	346	116	245	361	38	196	234
67. Swimming pools, tennis courts, outdoor recreation facilities	-	7	7	-	8	8	-	-	-
68. Mine shafts and other below surface workings	1,382	45	1,427	2,807	5	2,812	2,329	4	2,333
69. Fences, snowsheds, signs, guard rails	250	28	278	139	38	177	123	12	135
70. Other engineering construction	1,833	55	1,888	382	15	397	259	15	274

TABLE 13. Utilities

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,475,409	269,516	1,744,925	1,410,576	264,967	1,675,543	1,181,103	297,861	1,478,964
Total building construction	100,946	32,910	133,856	100,249	29,736	129,985	135,187	32,326	167,513
Residential	—	—	—	—	—	—	—	—	—
Industrial	20,916	19,724	40,640	25,901	17,957	43,858	24,401	20,416	44,817
2. Factories, plants, workshops, food canneries	5,266	1,689	6,955	8,278	1,298	9,576	5,206	965	6,171
3. Mine and mine mill buildings	—	—	—	—	—	—	—	—	—
4. Railway stations, offices, roadway buildings	9,821	12,654	22,475	11,142	12,228	23,370	13,410	14,041	27,451
5. Railway shops, engine houses, water and fuel stations	5,829	5,381	11,210	6,481	4,431	10,912	5,785	5,410	11,195
Commercial	39,884	10,833	50,717	34,502	9,769	44,271	49,186	9,810	58,996
6. Warehouses, storehouses, refrigerated storage, etc.	11,502	2,174	13,676	7,745	2,096	9,841	7,545	2,074	9,619
7. Grain elevators	13,009	6,321	19,330	16,345	5,601	21,946	17,925	5,491	23,416
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	217	22	239	79	18	97	—	10	10
9. Office buildings	10,970	1,522	12,492	7,289	1,298	8,587	19,623	1,491	21,114
10. Stores, retail and wholesale	2	19	21	13	7	20	—	7	7
11. Garages and service stations	4,184	756	4,940	3,031	730	3,761	4,093	718	4,811
12. Theatres, arenas, amusement and recreational buildings	—	13	13	—	14	14	—	14	14
13. Laundries and dry cleaning establishments	—	6	6	—	5	5	—	5	5
Institutional	251	14	265	1,808	15	1,823	46	15	61
14. Schools and Other educational buildings	251	6	257	446	5	451	—	5	5
15. Churches and other religious buildings	—	1	1	1,362	5	1,367	46	5	51
16. Hospitals, sanatoria, clinics, first-aid stations etc.	—	6	6	—	5	5	—	5	5
17. Other institutional buildings	—	1	1	—	—	—	—	—	—
Other building construction	39,895	2,339	42,234	38,038	1,995	40,033	61,554	2,085	63,639
18. Farm buildings (excluding dwellings)	—	—	—	—	—	—	—	—	—
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	31,514	1,152	32,666	33,778	1,080	34,858	44,222	1,239	45,461
20. Aeroplane hangars	2,221	460	2,681	2,517	70	2,587	16,119	77	16,196
21. Passenger terminals, bus, boat or air	1,095	214	1,309	192	143	335	807	209	1,016
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	3,074	413	3,487	1,178	393	1,571	369	361	730
24. Other building construction	1,991	100	2,091	373	309	682	37	199	236
Total engineering construction	1,374,463	236,606	1,611,069	1,310,327	235,231	1,545,558	1,045,916	263,535	1,311,451
Marine construction	91,503	2,281	93,784	79,324	1,941	81,263	54,924	2,102	57,026
25. Docks, wharves, piers, breakwaters	9,228	1,329	10,557	13,143	1,406	14,549	26,125	1,539	27,664
26. Retaining walls, embankments, ripraping	33	69	102	198	55	253	29	34	63
27. Canals and waterways	71,684	20	71,704	27,652	11	27,663	6,939	13	6,952
28. Dredging and pile driving	9,648	778	10,426	38,195	402	38,597	20,291	455	20,746
29. Dyke construction	—	—	—	—	—	—	4	—	4
30. Logging booms	79	31	110	9	16	25	15	16	31
31. Other marine construction	831	54	885	127	51	178	1,521	45	1,566

TABLE 13. Utilities — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	9,314	599	9,913	17,752	605	18,357	14,054	589	14,643
32. Hard surfaced or paved streets, highways, parking lots, etc.	3,331	159	3,490	17,370	257	17,627	13,806	263	14,069
33. Gravel or stone streets, highways, roads, parking lots, etc.	2,049	156	2,205	357	173	530	187	171	358
34. Dirt, clay or other streets, roads, parking lots, etc.	3,830	147	3,977	4	85	89	50	62	112
35. Grading, scraping, oiling, filling	103	109	212	7	82	89	10	82	92
36. Sidewalks, paths	1	22	23	14	—	14	1	4	5
37. Aerodromes, landing fields, runways, tarmac	—	6	6	—	8	8	—	7	7
Waterworks and sewage systems	62,499	14,638	77,137	62,736	14,498	77,234	76,947	17,041	93,988
38. Tile drains, drainage ditches, storm sewers	8	2	10	82	7	89	25	5	30
39. Water mains, hydrants and services	52,578	13,527	66,105	48,622	13,345	61,967	58,916	14,938	73,854
40. Sewage systems and connections	3,324	56	3,380	3,500	25	3,525	10,000	31	10,031
41. Pumping stations, water	5,332	956	6,288	5,372	837	6,209	5,835	2,027	7,862
42. Water storage tanks	1,257	97	1,354	5,160	284	5,444	2,171	40	2,211
Dams and irrigation	64,760	1,046	65,806	19,454	912	20,366	15,815	810	16,625
43. Dams and reservoirs	64,752	1,046	65,798	19,442	911	20,353	15,795	809	16,604
44. Irrigation and land reclamation projects	8	—	8	12	1	13	20	1	21
Electric power construction	442,620	39,834	482,454	474,310	38,415	512,725	415,118	42,017	457,135
45. Electric power generating plants, including water conveying and controlling structures	238,668	9,099	247,767	234,419	6,449	240,868	201,667	7,658	209,325
46. Electric transformer stations	35,109	4,711	39,820	53,950	5,826	59,776	56,642	6,193	62,835
47. Power transmission and distribution lines, trolley wires	165,295	24,470	189,765	180,957	24,612	205,569	151,819	26,581	178,400
48. Street lighting	3,548	1,554	5,102	4,984	1,528	6,512	4,990	1,585	6,575
Railway, telephone and telegraph	239,265	156,354	395,619	243,810	157,767	401,577	294,489	179,417	473,906
49. Railway tracks and roadbed	136,781	116,358	253,139	130,794	117,165	247,959	164,814	134,866	299,680
50. Signals and interlockers	5,589	5,715	11,304	5,047	5,818	10,865	8,433	6,582	15,015
51. Telegraph and telephone lines, underground and marine cables	96,895	34,281	131,176	107,969	34,784	142,753	121,242	37,969	159,211
Gas and oil facilities	364,726	7,036	371,762	310,358	7,776	318,134	113,188	8,152	121,340
52. Gas mains and services	58,796	2,797	61,593	54,409	2,422	56,831	45,484	2,684	48,168
53. Pumping stations, oil	13,246	1,557	14,803	4,640	1,525	6,165	636	1,335	1,971
54. Pumping stations, gas	16,689	36	16,725	22,381	298	22,679	19,415	284	19,699
55. Oil storage tanks	4,422	124	4,546	586	78	662	254	65	319
56. Gas storage tanks	172	66	238	5	45	50	100	48	148
57. Oil pipe lines	44,400	1,481	45,881	18,059	1,284	20,343	3,125	1,452	4,577
58. Gas pipe lines	226,663	877	227,540	209,079	2,071	211,150	43,929	2,230	46,159
59. Oil wells	—	13	13	—	—	—	—	—	—
60. Gas wells	100	17	117	90	17	107	145	19	164
61. Oil refinery — processing units	—	—	—	—	—	—	—	—	—
62. Natural gas cleaning plants	238	68	306	109	38	147	100	35	135
Other engineering construction	99,776	14,818	114,594	102,583	13,317	115,900	61,381	15,407	76,788
63. Bridges, trestles, culverts, overpasses, viaducts	46,501	11,743	58,244	67,660	10,462	78,122	44,583	12,142	56,725
64. Tunnels and subways	50,640	31	50,671	32,663	65	32,728	14,612	68	14,680
65. Incinerators	—	—	—	1	—	1	—	—	—
66. Park systems, landscaping, sodding, etc.	27	78	105	47	78	123	7	21	28
67. Swimming pools, tennis courts, outdoor recreation facilities	—	3	3	1	3	4	—	4	4
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	1,994	2,676	4,670	1,969	2,049	4,018	2,033	2,377	4,410
70. Other engineering construction	614	287	901	242	662	904	146	795	941

TABLE 14. Trade Finance and Commercial Services

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	382,292	61,999	444,291	391,037	59,626	450,663	464,542	59,730	524,272
Total building construction	354,155	58,142	412,297	373,391	56,596	429,987	439,504	56,407	495,911
Residential	—	—	—	—	—	—	—	—	—
Industrial	5,958	1,861	7,819	3,090	586	3,676	3,939	620	4,559
2. Factories, plants, workshops, food canneries	5,823	1,819	7,642	3,090	586	3,676	3,939	620	4,559
3. Mine and mine mill buildings	—	—	—	—	—	—	—	—	—
4. Railway stations, offices, roadway buildings	13	—	13	—	—	—	—	—	—
5. Railway shops, engine houses, water and fuel stations	122	42	164	—	—	—	—	—	—
Commercial	345,151	56,076	401,227	367,444	55,830	423,274	431,748	55,551	487,299
6. Warehouses, storehouses, refrigerated storage, etc.	33,923	5,486	39,409	25,899	3,638	29,537	36,261	3,893	40,154
7. Grain elevators	—	—	—	—	—	—	—	—	—
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	45,265	12,431	57,696	30,314	13,145	43,459	27,389	10,960	38,349
9. Office buildings	75,218	8,838	84,056	104,641	11,131	115,772	130,445	11,894	142,339
10. Stores, retail and wholesale	140,987	20,176	161,183	162,910	20,394	183,304	186,523	20,996	209,519
11. Garages and service stations	35,318	6,959	42,275	31,624	5,598	37,222	35,981	6,028	42,009
12. Theatres, arenas, amusement and recreational buildings	13,065	1,322	14,387	9,864	1,031	10,895	12,815	997	13,812
13. Laundries and dry cleaning establishments	1,377	864	2,241	2,192	893	3,085	334	783	1,117
Institutional	2,697	193	2,890	2,628	172	2,800	3,460	229	3,689
14. Schools and other educational buildings	—	—	—	—	—	—	—	—	—
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	2,697	193	2,890	2,628	172	2,600	3,460	229	3,689
17. Other institutional buildings	—	—	—	—	—	—	—	—	—
Other building construction	348	12	361	229	8	237	357	7	364
18. Farm buildings (excluding dwellings)	301	—	301	226	—	226	357	—	357
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	—	—	—	—	—	—	—	—	—
20. Aeroplane hangars	—	—	—	—	—	—	—	—	—
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	6	—	6	—	—	—	—	—	—
24. Other building construction	42	12	54	3	8	11	—	7	7
Total engineering construction	28,137	3,857	31,994	17,646	3,030	20,676	25,038	3,323	28,361
Marine construction	902	236	1,138	506	24	530	751	52	803
25. Docks, wharves, piers, breakwaters	787	205	992	460	23	483	747	26	773
26. Retaining walls, embankments, ripraping	83	30	113	46	1	47	4	26	30
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	1	1	2	—	—	—	—	—	—
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	31	—	31	—	—	—	—	—	—

TABLE 14. Trade Finance and Commercial Services — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	9,476	605	10,081	6,742	398	7,140	8,241	424	8,665
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	5,833	439	6,272	5,341	243	5,584	6,938	257	7,195
33. Gravel or stone streets, highways, roads, parking lots, etc.	1,978	118	2,096	502	107	609	313	126	439
34. Dirt, clay or other streets, roads, parking lots, etc.	27	3	30	159	6	165	84	2	86
35. Grading, scraping, oiling, filling	1,211	37	1,248	499	33	532	624	38	662
36. Sidewalks, paths	301	8	309	241	9	250	282	1	283
37. Aerodromes, landing fields, runways, tarmac	126	—	126	—	—	—	—	—	—
Waterworks and sewage systems	3,970	176	4,146	1,576	40	1,616	1,964	21	1,985
38. Tile drains, drainage ditches, storm sewers	1,574	46	1,620	520	8	528	820	4	824
39. Water mains, hydrants and services	732	30	762	323	20	343	460	10	470
40. Sewage systems and connections	1,648	98	1,746	725	12	737	684	7	691
41. Pumping stations, water	16	1	17	8	—	8	—	—	—
42. Water storage tanks	—	1	1	—	—	—	—	—	—
Dams and irrigation	6	—	6	—	—	—	—	—	—
43. Dams and reservoirs	6	—	6	—	—	—	—	—	—
44. Irrigation and land reclamation projects	—	—	—	—	—	—	—	—	—
Electric power construction	241	12	253	109	1	110	285	11	296
45. Electric power generating plants, including water conveying and controlling structures	36	—	36	—	—	—	—	9	9
46. Electric transformer stations	109	—	109	—	—	—	—	—	—
47. Power transmission and distribution lines, trolley wires	28	12	40	52	1	53	183	2	185
48. Street lighting	68	—	68	57	—	57	102	—	102
Railway, telephone and telegraph	174	85	259	140	17	157	339	10	349
49. Railway tracks and roadbed	159	85	244	140	17	157	339	10	349
50. Signals and interlockers	15	—	15	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables	—	—	—	—	—	—	—	—	—
Gas and oil facilities	12,266	2,132	14,398	7,252	2,308	9,560	12,202	2,573	14,775
52. Gas mains and services	—	—	—	—	4	4	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	38	11	49	32	—	32	19	1	20
55. Oil storage tanks	10,779	2,025	12,804	6,929	2,285	9,214	12,131	2,563	14,694
56. Gas storage tanks	668	19	687	12	9	21	1	9	10
57. Oil pipe lines	781	77	858	277	10	287	51	—	51
58. Gas pipe lines	—	—	—	2	—	2	—	—	—
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery — processing units	—	—	—	—	—	—	—	—	—
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	1,102	611	1,713	1,321	242	1,563	1,256	232	1,488
63. Bridges, trestles, culverts, overpasses, viaducts	277	3	280	98	6	104	86	12	98
64. Tunnels and subways	—	—	—	—	—	—	—	—	—
65. Incinerators	—	7	7	—	—	—	2	—	2
66. Park systems, landscaping, sodding, etc.	130	11	141	68	44	112	69	16	85
67. Swimming pools, tennis courts, outdoor recreation facilities	30	82	112	48	157	205	62	160	222
68. Mine shafts and other below surface workings	44	—	44	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	583	37	620	390	20	410	589	25	614
70. Other engineering construction	38	471	509	717	15	732	448	19	467

TABLE 15. Federal Government

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	305,517	61,870	367,387	325,787	61,581	387,368	366,801	62,046	428,847
Total building construction	187,678	38,203	225,881	160,112	38,133	198,245	181,453	38,418	219,871
2. Factories, plants, workshops, food canneries	24,745	4,216	28,961	11,300	4,238	15,536	16,842	4,267	21,109
6. Warehouses, storehouses, refrigerated storage, etc.	4,359	2,142	6,501	5,819	2,138	7,757	5,193	2,156	7,349
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	7,745	1,081	6,826	4,234	1,078	5,312	7,670	1,085	8,755
9. Office buildings	60,644	10,941	71,585	67,664	10,957	78,621	51,571	11,038	62,609
10. Stores, retail and wholesale	499	53	552	—	53	53	—	53	53
11. Garages and service stations	3,334	417	3,751	4,839	413	5,252	1,658	416	2,074
12. Theatres, arenas, amusement and recreational buildings	3,607	463	4,070	2,913	461	3,374	2,156	463	2,619
14. Schools and other educational buildings	16,554	582	17,136	8,395	581	8,976	4,949	586	5,535
15. Churches and other religious buildings	2	56	58	62	56	118	—	57	57
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	8,858	1,334	10,192	6,501	1,336	7,837	13,561	1,348	14,909
17. Other institutional buildings	3,120	366	3,486	900	369	1,269	—	373	373
18. Farm buildings (excluding dwellings)	4,392	192	4,584	1,887	189	2,076	4,840	191	5,031
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	19,126	979	20,105	8,158	990	9,148	10,245	996	11,241
20. Aeroplane hangars	7,031	2,309	9,340	4,933	2,289	7,222	10,981	2,308	13,289
21. Passenger terminals, bus, boat or air	6,099	329	6,428	20,933	321	21,254	21,961	324	22,285
22. Armouries, barracks, drill halls, etc.	14,944	12,188	27,132	4,745	12,115	16,860	5,261	12,204	17,465
24. Other building construction	2,619	555	3,174	7,029	551	7,580	24,565	553	25,118
Total engineering construction	117,839	23,667	141,506	163,675	23,448	189,123	185,348	23,628	208,978
25. Docks, wharves, piers, breakwaters	14,320	2,995	17,315	27,326	2,968	30,294	25,318	2,966	28,304
26. Retaining walls, embankments, ripraping	790	476	1,286	2,087	482	2,569	—	486	486
27. Canals and waterways	320	1,055	1,375	1,691	1,067	2,758	1,252	1,076	2,328
28. Dredging and pile driving	2,829	651	3,480	18,386	645	19,031	11,134	650	11,784
29. Dyke construction	1,273	90	1,363	—	88	88	—	88	88
31. Other marine construction	12,440	261	12,701	1,090	255	1,345	1,878	260	2,138
32. Hard surfaced or paved streets, highways, parking lots, etc.	14,366	1,323	15,689	19,527	1,314	20,841	28,127	1,326	29,453
33. Gravel or stone streets, highways, roads, parking lots, etc.	15,248	3,187	18,435	17,378	3,123	20,501	10,845	3,149	13,994
34. Dirt, clay or other streets, roads, parking lots, etc.	247	555	802	—	555	555	—	580	560
35. Grading, scraping, oiling, filling	358	816	1,174	420	803	1,223	—	808	808
37. Aerodromes, landing fields, runways, tarmac	30,241	968	31,209	34,262	965	35,227	37,835	973	38,808
39. Water mains, hydrants and services	1,832	812	2,644	3,042	801	3,843	60	809	869
40. Sewage systems and connections	2,545	631	3,176	3,092	629	3,721	1,663	833	2,296
43. Dams and reservoirs	954	591	1,545	125	581	706	—	585	585
44. Irrigation and land reclamation projects	3,412	554	3,966	10,608	539	11,147	17,082	544	17,626
45. Electric power generating plants, including water conveying and controlling structures	696	391	1,087	4,689	387	5,076	—	387	387
46. Electric transformer stations	513	208	721	266	209	475	109	210	319
47. Power transmission and distribution lines, trolley wires	1,786	610	2,396	1,112	608	1,720	—	613	613
63. Bridges, trestles, culverts, overpasses, viaducts	2,730	1,112	3,842	7,606	1,109	8,715	12,872	1,118	13,990
68. Park systems, landscaping, sodding, etc.	1,483	1,359	2,842	1,350	1,354	2,704	—	1,362	1,362
69. Fences, snowsheds, signs, guard rails	1,169	1,645	2,814	50	1,616	1,666	—	1,629	1,629
70. Other engineering construction	8,287	3,377	11,664	11,568	3,350	14,918	37,173	3,376	40,549

TABLE 16. Provincial Governments

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	460,482	112,636	573,138	511,638	126,531	638,169	545,155	130,747	675,902
Total building construction	44,475	9,910	54,385	68,282	9,832	78,114	80,241	10,486	90,727
2. Factories, plants, workshops, food canneries	1,399	1,462	2,861	10	44	54	334	30	364
6. Warehouses, storehouses, refrigerated storage, etc.	1,178	345	1,523	4,325	890	5,215	2,797	900	3,697
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	86	29	115	24	92	116	259	88	347
9. Office buildings	7,955	4,936	12,891	45,383	5,961	51,344	58,101	7,190	65,291
11. Garages and service stations	917	49	966	1,518	100	1,618	1,475	100	1,575
12. Theatres, arenas, amusement and recreational buildings	1,917	2	1,919	1,581	18	1,599	1,357	25	1,382
17. Other institutional buildings	22,199	2,613	24,812	13,289	2,375	15,664	12,444	1,735	14,179
24. Other building construction	8,824	474	9,298	2,152	352	2,504	3,474	418	3,892
Total engineering construction	416,007	102,746	518,753	443,356	116,689	560,055	464,914	120,261	585,175
25. Docks, wharves, piers, breakwaters	1,159	330	1,489	556	3	559	881	—	881
31. Other marine construction	43	69	112	30	—	30	77	—	77
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	203,020	39,268	242,288	207,569	45,869	253,438	217,874	56,029	273,903
33. Gravel or stone streets, highways, roads, parking lots, etc.	95,873	42,426	138,299	99,262	46,662	145,924	108,003	46,825	154,828
34. Dirt, clay or other streets, roads, parking lots, etc.	3,298	2,005	5,303	14,705	2,228	16,933	22,299	1,534	23,833
35. Grading, scraping, oiling, filling	21,254	2,826	24,080	5,624	1,734	7,358	6,267	1,901	8,168
36. Sidewalks, paths	42	41	83	8	—	8	10	—	10
38. Tile drains, drainage ditches, storm sewers	8,636	180	8,816	1,212	53	1,265	1,243	72	1,315
39. Water mains, hydrants and services	392	3	395	389	5	394	334	—	334
43. Dams and reservoirs	34	—	34	4,112	1,518	5,630	801	835	1,636
44. Irrigation and land reclamation projects	3,507	—	3,507	4,007	363	4,370	3,522	416	3,938
63. Bridges, trestles, culverts, overpasses, viaducts	76,302	13,180	89,462	98,549	16,148	114,897	94,686	10,883	105,569
66. Park systems, landscaping, sodding, etc.	298	541	837	5,948	1,701	7,649	7,646	1,228	8,872
69. Fences, snowsheds, signs, guard rails	421	896	1,117	238	384	622	48	424	472
70. Other engineering construction	1,730	1,201	2,931	1,147	31	1,178	1,223	116	1,339

TABLE 17. Municipal Governments

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	258,421	72,147	330,568	293,946	85,784	379,730	338,381	86,393	424,774
Total building construction	37,618	6,372	43,990	42,124	9,035	51,159	54,882	9,080	63,962
2. Factories, plants, workshops, food canneries	3,020	444	3,464	2,804	596	3,400	3,366	687	4,053
6. Warehouses, storehouses, refrigerated storage, etc.	410	1	411	572	2	574	607	2	609
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	8	—	8	11	—	11	12	—	12
9. Office buildings	12,588	1,770	14,358	11,957	1,512	13,469	16,146	1,621	17,767
11. Garages and service stations	4,274	71	4,345	2,689	133	2,822	10,143	173	10,316
12. Theatres, arenas, amusement and recreational buildings	3,571	879	4,450	7,122	1,612	8,734	6,399	1,124	7,523
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	814	141	955	477	40	517	152	57	209
17. Other institutional buildings	8,490	2,048	10,538	11,916	3,549	15,465	11,455	3,718	15,173
24. Other building construction	4,443	1,018	5,461	4,576	1,591	6,167	8,602	1,698	6,300
Total engineering construction	220,803	65,775	286,578	251,822	76,749	328,571	283,498	77,313	368,812
25. Docks, wharves, piers, breakwaters	335	109	444	382	192	574	358	202	560
31. Other marine construction	—	80	80	—	163	163	—	174	174
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	72,891	16,254	89,145	83,496	21,464	104,960	90,001	21,386	111,387
33. Gravel or stone streets, highways, roads, parking lots, etc.	18,707	18,539	37,246	24,630	20,245	44,875	24,513	20,254	44,767
34. Dirt, clay or other streets, roads, parking lots, etc.	10,995	11,365	22,360	10,351	6,703	17,054	10,352	6,912	17,264
35. Grading, scraping, oiling, filling	468	52	520	653	108	759	892	113	805
38. Sidewalks, paths	13,722	2,990	16,712	18,006	3,419	21,425	17,536	3,483	21,019
38. Tile drains, drainage ditches, storm sewers	7,882	2,564	10,446	10,546	3,965	14,511	10,822	3,755	14,577
40. Sewage systems and connections	70,200	6,035	76,235	74,319	7,872	82,191	90,823	8,417	99,240
48. Street lighting	2,921	1,469	4,390	3,885	2,096	5,981	3,833	2,131	5,964
63. Bridges, trestles, culverts, overpasses, viaducts	13,178	2,130	15,306	12,618	2,999	15,617	18,161	2,707	20,866
64. Tunnels and subways	2,288	337	2,625	4,744	491	5,235	6,954	497	7,451
65. Incinerators	225	82	307	697	1,354	2,051	1,982	1,327	3,309
66. Park systems, landscaping, sodding, etc.	1,353	405	1,758	1,888	822	2,710	2,002	877	2,879
67. Swimming pools, tennis courts, outdoor recreation facilities ...	561	254	815	783	516	1,299	830	550	1,380
69. Fences, snowsheds, signs, guard rails	278	89	367	388	181	569	411	193	604
70. Other engineering construction	4,801	3,021	7,822	4,436	4,161	8,597	4,229	4,335	8,564

TABLE 18. Housing and Institutional Services

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Residential	1,430,000	383,000	1,813,000	1,781,200	407,100	2,188,300	1,727,700	426,400	2,154,100
Institutions:									
Total value of work performed	407,401	47,762	455,163	435,282	48,898	484,180	486,343	48,308	534,651
9. Office buildings	315	—	315	449	—	449	80	—	80
12. Theatres, arenas, amusement and recreational buildings	870	34	904	1,257	23	1,280	915	26	941
14. Schools and other educational buildings	242,899	24,400	267,299	254,277	26,518	280,795	275,039	26,577	301,616
15. Churches and other religious buildings	40,651	7,993	48,644	48,421	7,427	55,848	41,504	6,462	47,966
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	106,322	13,933	122,255	118,039	13,631	131,670	145,152	14,241	159,393
17. Other institutional buildings	9,100	908	10,008	9,449	874	10,323	19,640	662	20,302
18. Farm buildings (excluding dwellings)	124	28	152	57	32	89	12	21	33
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,146	275	1,421	1,576	88	1,664	3,429	78	3,507
24. Other building construction	1,589	2	1,591	420	71	491	2	13	15
All engineering construction	2,385	189	2,574	1,337	234	1,571	570	228	798

VALUE OF CONSTRUCTION WORK PERFORMED BY TYPE OF STRUCTURE - PROVINCES - 1957-1959¹

TABLE 19. Newfoundland

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	68,359	22,034	90,393	75,314	16,838	92,152	63,717	19,234	82,951
Total building construction	41,797	13,981	55,778	40,070	7,325	47,395	34,948	9,491	44,439
Residential	16,000	9,000	25,000	16,100	3,200	19,300	17,300	5,100	22,400
Industrial	5,055	1,553	6,608	937	1,011	1,948	752	1,172	1,924
Commercial	6,550	1,440	7,990	11,353	1,474	12,827	9,462	1,435	10,897
Institutional	8,866	1,202	10,068	8,547	840	9,387	5,240	1,051	6,291
Other building construction	5,326	786	6,112	3,133	800	3,933	2,194	733	2,927
Total engineering construction	28,562	8,053	34,615	35,244	9,513	44,757	28,769	9,743	38,512
Marine construction	5,017	857	5,874	5,021	736	5,757	5,300	791	6,091
Road, highway and aerodrome construction	6,533	3,632	10,165	17,333	6,308	23,841	16,973	6,425	23,398
Waterworks and sewage systems	1,425	458	1,883	941	474	1,415	596	544	1,140
Dams and irrigation	467	110	577	1,095	29	1,124	382	35	417
Electric power construction	4,192	1,623	5,815	3,997	551	4,548	2,079	588	2,867
Railway, telephone and telegraph	5,832	1,044	6,876	5,679	983	6,662	1,666	1,060	2,726
Gas and oil facilities	1,828	104	1,732	532	198	730	971	76	1,047
Other engineering construction	1,468	225	1,893	646	234	880	802	224	1,026

TABLE 20. Prince Edward Island

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	13,832	3,163	17,005	20,975	3,483	24,458	23,377	4,028	29,485
Total building construction	5,110	1,381	6,491	10,085	1,795	11,880	14,072	2,199	16,271
Residential	1,000	—	1,000	2,000	400	2,400	2,200	800	3,000
Industrial	66	156	222	308	110	418	75	112	187
Commercial	954	323	1,277	1,914	282	2,196	2,479	289	2,768
Institutional	1,354	183	1,537	2,643	225	2,868	2,422	214	2,636
Other building construction	1,736	719	2,455	3,220	778	3,998	6,896	784	7,680
Total engineering construction	8,822	1,782	10,604	10,890	1,688	12,578	11,305	1,829	13,134
Marine construction	1,651	152	1,803	1,958	150	2,108	1,226	150	1,376
Road, highway and aerodrome construction	6,128	1,057	7,185	5,738	947	6,685	8,004	959	8,963
Waterworks and sewage systems	102	72	174	461	95	556	142	112	254
Dams and irrigation	56	19	75	58	21	79	62	22	84
Electric power construction	274	186	440	1,079	142	1,221	581	175	756
Railway, telephone and telegraph	265	187	452	319	191	510	363	234	597
Gas and oil facilities	48	1	49	615	5	620	112	10	122
Other engineering construction	298	128	426	662	137	799	615	167	982

¹ Actual 1957, Preliminary 1958, Intentions 1959.

TABLE 21. Nova Scotia

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	121,009	43,869	164,878	123,072	41,021	164,093	144,121	46,786	186,907
Total building construction	71,471	23,202	94,673	70,808	17,827	88,635	80,385	22,118	102,583
Residential	33,000	9,000	42,000	31,100	6,900	38,000	33,100	9,400	42,500
Industrial	5,357	5,906	11,263	5,138	3,343	8,481	3,501	5,084	8,585
2. Factories, plants, workshops, food canneries	4,428	5,325	9,753	4,230	2,800	7,030	2,625	4,429	7,054
3. Mine and mine mill buildings	396	55	451	372	50	422	245	47	292
4. Railway stations, offices, roadway buildings	346	334	680	346	333	679	426	404	830
5. Railway shops, engine houses, water and fuel stations	187	192	379	190	160	350	205	204	409
Commercial	13,234	3,108	16,342	11,103	2,499	13,602	13,200	2,675	15,875
6. Warehouses, storehouses, refrigerated storage, etc.	1,980	688	2,668	1,801	536	2,337	1,787	628	2,415
7. Grain elevators	784	74	858	11	126	137	5	47	52
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	433	224	657	525	178	703	1,694	192	1,886
9. Office buildings	4,557	1,199	5,756	4,516	837	5,353	4,251	924	5,175
10. Stores, retail and wholesale	4,182	522	4,704	3,521	544	4,065	4,688	602	5,290
11. Garages and service stations	911	259	1,170	578	130	708	725	144	869
12. Theatres, arenas, amusement and recreational buildings	387	119	506	151	98	249	50	97	147
13. Laundries and dry cleaning establishments	—	23	23	—	50	50	—	41	41
Institutional	17,026	1,646	18,672	15,648	1,546	17,394	18,390	1,421	18,811
14. Schools and other educational buildings	10,648	711	11,359	7,362	656	8,018	8,381	492	8,873
15. Churches and other religious buildings	4,238	332	4,570	6,584	373	6,957	2,592	329	2,921
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	1,878	573	2,451	1,427	433	1,860	6,674	514	7,188
17. Other institutional buildings	262	30	292	475	84	559	743	86	829
Other building construction	2,854	3,342	6,396	7,619	3,539	11,158	12,194	3,538	15,732
18. Farm buildings (excluding dwellings)	1,542	1,061	2,803	1,573	1,114	2,687	3,785	1,127	4,912
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	285	68	353	681	62	743	995	66	1,061
20. Aeroplane hangars	29	286	315	1,640	279	1,919	2,232	282	2,514
21. Passenger terminals, bus, boat or air	47	4	51	2,257	7	2,264	2,432	2	2,434
22. Armouries, barracks, drill halls, etc.	—	2,008	2,008	891	1,961	2,852	251	1,975	2,226
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	141	115	256	130	114	244	746	84	830
24. Other building construction	810	—	810	447	2	449	1,753	2	1,755
Total engineering construction	49,538	20,667	70,205	52,264	23,194	75,458	63,736	24,688	88,484
Marine construction	6,287	1,727	8,014	6,662	1,520	8,182	6,781	1,687	8,468
25. Docks, wharves, piers, breakwaters	4,440	1,096	5,536	5,757	1,029	6,786	5,578	1,192	6,770
26. Retaining walls, embankments, ripraping	33	2	35	64	161	225	4	166	170
27. Canals and waterways	5	27	32	183	32	215	553	30	583
28. Dredging and pile driving	274	205	479	576	200	776	572	202	774
29. Dyke construction	1,027	43	1,070	—	42	42	—	42	42
30. Logging booms	22	28	50	20	24	44	18	23	41
31. Other marine construction	486	326	812	62	32	94	56	32	88

TABLE 21. Nova Scotia — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	23,612	7,865	31,477	23,360	11,139	34,499	23,636	11,144	34,780
32. Hard surfaced or paved streets, highways, parking lots, etc.	15,689	1,461	17,150	17,468	9,785	27,253	19,545	9,842	29,387
33. Gravel or stone streets, highways, roads, parking lots, etc.	2,764	5,585	8,349	1,795	625	2,420	164	615	779
34. Dirt, clay or other streets, roads, parking lots, etc.	567	601	1,168	377	493	870	536	443	979
35. Grading, scraping, oiling, filling	42	7	49	62	11	73	—	8	8
36. Sidewalks, paths	544	134	678	570	150	720	623	160	783
37. Aerodromes, landing fields, runways, tarmac	4,006	77	4,083	3,088	75	3,163	2,768	76	2,844
Waterworks and sewage systems	2,298	755	3,053	2,845	892	3,737	3,479	1,190	4,669
38. Tile drains, drainage ditches, storm sewers	12	72	84	168	101	269	9	119	128
39. Water mains, hydrants and services	1,157	446	1,605	1,235	488	1,723	1,879	468	2,347
40. Sewage systems and connections	1,063	224	1,287	931	291	1,222	1,337	582	1,919
41. Pumping stations, water	65	9	74	488	12	500	254	9	263
42. Water storage tanks	1	2	3	23	—	23	—	12	12
Dams and irrigation	583	141	724	684	75	759	3,252	89	3,341
43. Dams and reservoirs	478	106	584	576	38	614	3,144	52	3,196
44. Irrigation and land reclamation projects	105	35	140	108	37	145	108	37	145
Electric power construction	5,731	1,526	7,257	6,151	1,425	7,576	10,660	1,563	12,223
45. Electric power generating plants, including water conveying and controlling structures	1,719	295	2,014	1,866	223	2,109	2,234	285	2,519
46. Electric transformer stations	314	49	363	128	21	149	601	23	624
47. Power transmission and distribution lines, trolley wires	3,649	1,059	4,708	4,038	1,019	5,057	7,732	1,088	8,820
48. Street lighting	49	123	172	99	162	261	93	167	260
Railway, telephone and telegraph	5,052	4,922	9,974	5,615	4,258	8,873	6,492	5,051	11,543
49. Railway tracks and roadbed	3,014	3,903	6,917	3,462	3,462	6,924	4,116	4,173	8,289
50. Signals and interlockers	104	113	217	133	128	261	171	153	324
51. Telegraph and telephone lines, underground and marine cables	1,934	906	2,840	2,020	668	2,688	2,205	725	2,930
Gas and oil facilities	1,965	1,081	3,046	984	1,018	2,002	902	736	1,638
52. Gas mains and services	—	—	—	—	—	—	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	160	6	166	615	13	628	490	110	600
56. Gas storage tanks	85	6	91	—	—	—	—	—	—
57. Oil pipe lines	—	—	—	—	24	24	—	—	—
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells	—	—	—	—	—	—	99	—	99
60. Gas wells	—	—	—	—	—	—	99	—	99
61. Oil refinery — processing units	1,720	1,069	2,789	369	981	1,350	214	626	840
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	4,010	2,650	6,660	5,963	2,867	8,830	8,534	3,208	11,742
63. Bridges, trestles, culverts, overpasses, viaducts	2,561	1,861	4,422	3,421	2,241	5,662	3,407	2,003	5,410
64. Tunnels and subways	1	—	1	5	—	5	6	—	6
65. Incinerators	42	1	43	304	5	309	1,197	4	1,201
66. Park systems, landscaping, sodding, etc.	44	51	95	45	50	95	—	50	50
67. Swimming pools, tennis courts, outdoor recreation facilities	20	—	20	48	—	48	20	—	20
68. Mine shafts and other below surface workings	595	398	993	720	293	1,013	406	785	1,191
69. Fences, snowsheds, signs, guard rails	241	212	453	142	190	332	145	275	420
70. Other engineering construction	506	127	633	1,278	88	1,366	3,353	91	3,444

TABLE 22. New Brunswick

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	106,731	35,227	143,958	121,741	40,013	161,754	155,418	40,960	196,398
Total building construction	63,020	17,090	80,110	68,968	16,206	85,174	69,995	17,111	87,106
Residential	33,000	9,000	42,000	38,400	8,300	47,700	39,000	8,500	47,500
Industrial	4,140	2,318	6,458	4,512	2,173	6,685	3,338	2,297	5,636
2. Factories, plants, workshops, food canneries	3,069	1,161	4,230	3,618	1,160	4,776	2,252	1,108	3,360
3. Mine and mine mill buildings	355	21	376	39	24	63	56	33	89
4. Railway stations, offices, roadway buildings	428	616	1,044	515	609	1,124	646	708	1,354
5. Railway shops, engine houses, water and fuel stations	288	520	808	342	380	722	385	448	833
Commercial	9,417	2,290	11,707	9,795	1,653	11,448	11,469	1,725	13,194
6. Warehouses, storehouses, refrigerated storage, etc.	1,762	411	2,173	1,054	318	1,372	999	330	1,329
7. Grain elevators	127	118	245	28	36	62	2	34	36
6. Hotels, clubs, restaurants, cafeterias, tourist cabins	434	180	614	296	147	443	347	130	477
9. Office buildings	2,045	733	2,778	3,649	434	4,083	4,461	421	4,882
10. Stores, retail and wholesale	3,380	535	3,915	3,013	479	3,492	2,277	442	2,719
11. Garages and service stations	1,126	253	1,379	1,538	180	1,718	3,301	304	3,605
12. Theatres, arenas, amusement and recreational buildings	543	34	577	219	33	252	82	36	118
13. Laundries and dry cleaning establishments	—	26	26	—	26	26	—	28	28
Institutional	12,949	1,203	14,152	11,685	1,760	13,445	11,758	2,284	14,022
14. Schools and other educational buildings	5,536	484	6,022	5,100	150	5,250	6,674	146	6,820
15. Churches and other religious buildings	679	235	914	565	279	844	996	200	1,198
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	5,769	407	6,176	5,183	832	5,615	3,304	1,291	4,595
17. Other institutional buildings	963	77	1,040	837	699	1,536	782	627	1,409
Other building construction	3,514	2,270	5,793	3,576	2,320	5,896	4,429	2,325	6,754
18. Farm buildings (excluding dwellings)	1,581	994	2,575	1,536	1,094	2,830	1,607	1,107	2,714
19. Broadcasting, radio and television, relay and booster stations telephone exchanges	1,251	115	1,366	1,027	87	1,114	1,128	61	1,189
20. Aeroplane hangars	9	336	345	—	327	327	6	330	336
21. Passenger terminals, bus, boat or air	8	325	333	397	317	714	14	320	334
22. Armouries, barracks, drill halls, etc.	232	289	521	219	282	501	391	283	674
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	283	193	476	318	145	463	778	154	932
24. Other building construction	150	27	177	79	68	147	505	70	575
Total engineering construction	45,711	18,137	63,848	52,773	23,807	76,580	65,423	23,869	100,292
Marine construction	2,836	803	3,639	6,872	779	6,851	5,572	725	6,297
25. Docks, wharves, piers, breakwaters	1,397	341	1,738	4,670	323	4,993	4,162	306	4,468
26. Retaining walls, embankments, ripraping	57	27	84	—	26	26	—	27	27
27. Canals and waterways	—	—	—	—	2	2	—	2	2
28. Dredging and pile driving	971	321	1,292	1,309	335	1,644	1,373	292	1,865
29. Dyke construction	228	32	260	—	31	31	—	31	31
30. Logging booms	37	51	88	28	37	65	37	44	81
31. Other marine construction	146	31	177	65	25	90	—	23	23

TABLE 22. New Brunswick — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	19,393	7,172	26,565	22,071	12,812	34,883	18,945	11,596	30,541
32. Hard surfaced or paved streets, highways, parking lots, etc.	16,755	397	17,152	10,913	6,558	17,471	9,681	6,244	15,925
33. Gravel or stone streets, highways, roads, parking lots, etc.	1,094	5,693	6,787	8,919	5,528	14,447	7,471	4,680	12,151
34. Dirt, clay or other streets, roads, parking lots, etc.	991	965	1,956	804	619	1,423	973	559	1,532
35. Grading, scraping, oiling, filling	64	29	93	211	3	214	—	3	3
36. Sidewalks, paths	144	88	232	144	104	248	215	110	325
37. Aerodromes, landing fields, runways, tarmac	345	—	345	1,080	—	1,080	605	—	605
Waterworks and sewage systems	1,414	686	2,100	2,267	718	2,983	2,150	762	2,912
38. Tile drains, drainage ditches, storm sewers	8	57	65	192	61	253	190	36	226
39. Water mains, hydrants and services	1,105	563	1,668	1,257	474	1,731	1,281	551	1,832
40. Sewage systems and connections	226	56	282	736	176	912	612	169	781
41. Pumping stations, water	75	9	84	78	5	83	54	6	60
42. Water storage tanks	—	1	1	4	—	4	13	—	13
Dams and irrigation	207	73	280	273	79	352	278	79	365
43. Dams and reservoirs	113	39	152	171	42	213	163	41	204
44. Irrigation and land reclamation projects	94	34	128	102	37	139	113	38	151
Electric power construction	8,839	465	9,304	4,791	527	5,318	5,677	673	6,350
45. Electric power generating plants, including water conveying and controlling structures	3,879	97	3,976	1,459	54	1,513	2,136	37	2,173
46. Electric transformer stations	1,138	30	1,168	410	39	449	429	63	492
47. Power transmission and distribution lines, trolley wires	3,716	328	4,044	2,714	422	3,136	2,921	558	3,479
48. Street lighting	106	10	116	208	12	220	191	15	206
Railway, telephone and telegraph	7,843	6,767	14,610	8,001	6,844	14,845	9,139	7,802	18,941
49. Railway tracks and roadbed	4,795	5,870	10,465	5,036	5,665	10,701	6,287	6,615	12,902
50. Signals and interlockers	165	329	494	201	271	472	269	310	579
51. Telegraph and telephone lines, underground and marine cables	2,883	768	3,651	2,764	908	3,672	2,583	877	3,460
Gas and oil facilities	553	22	575	5,544	35	5,579	38,820	62	38,882
52. Gas mains and services	—	12	12	—	11	11	—	11	11
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	246	6	252	164	18	182	546	35	583
56. Gas storage tanks	11	—	11	—	—	—	—	—	—
57. Oil pipe lines	222	—	222	—	—	—	—	—	—
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells	28	4	32	28	6	34	136	8	144
60. Gas wells	46	—	46	52	—	52	136	8	144
61. Oil refinery — processing units	—	—	—	5,300	—	5,300	38,000	—	38,000
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	4,626	2,149	6,775	3,754	2,015	5,769	4,844	2,170	7,014
63. Bridges, trestles, culverts, overpasses, viaducts	1,757	1,549	3,306	2,510	1,480	3,990	3,114	1,618	4,732
64. Tunnels and subways	3	1	4	2	1	3	12	1	13
65. Incinerators	35	18	53	—	3	3	8	3	11
66. Park systems, landscaping, sodding, etc.	77	105	182	319	100	419	5	99	104
67. Swimming pools, tennis courts, outdoor recreation facilities	645	14	659	222	14	236	—	14	14
68. Mine shafts and other below surface workings	1,122	88	1,210	111	9	120	—	—	—
69. Fences, snowsheds, signs, guard rails	329	209	538	167	211	378	177	230	407
70. Other engineering construction	658	165	823	423	197	620	1,528	205	1,733

TABLE 23. Quebec

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,316,720	284,832	1,601,552	1,434,193	308,729	1,742,922	1,432,371	317,012	1,749,383
Total building construction	800,237	187,434	987,671	848,427	202,303	1,050,730	910,505	204,338	1,114,643
Residential	388,000	102,000	490,000	449,200	112,600	561,800	463,000	114,300	577,300
Industrial	107,637	29,546	137,183	66,859	27,861	94,720	67,760	27,764	95,524
2. Factories, plants, workshops, food canneries	92,558	22,172	114,730	58,787	21,555	80,342	58,494	20,950	79,444
3. Mine and mine mill buildings	11,383	2,636	14,019	4,291	2,299	6,590	5,882	2,263	8,145
4. Railway stations, offices, roadway buildings	1,587	2,316	3,903	1,711	1,913	3,624	1,992	2,220	4,212
5. Railway shops, engine houses, water and fuel stations	2,109	2,422	4,531	2,070	2,094	4,164	1,392	2,331	3,723
Commercial	135,497	21,583	157,080	171,980	24,125	196,105	203,492	26,389	229,881
6. Warehouses, storehouses, refrigerated storage, etc.	13,882	3,314	17,196	10,868	3,197	14,065	16,496	3,519	20,015
7. Grain elevators	5,369	547	5,916	9,330	585	9,915	10,087	1,129	11,216
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	16,250	3,783	20,033	9,355	2,774	12,129	8,003	2,718	10,721
9. Office buildings	43,286	6,082	49,368	76,376	8,647	85,023	90,103	8,703	98,806
10. Stores, retail and wholesale	36,569	4,579	41,148	45,799	6,142	51,941	59,829	6,456	66,285
11. Garages and service stations	13,890	2,336	16,226	14,287	1,669	15,956	10,187	1,713	11,900
12. Theatres, arenas, amusement and recreational buildings	8,011	707	6,718	5,508	935	6,443	8,721	1,024	9,745
13. Laundries and dry cleaning establishments	240	235	475	457	176	633	66	127	193
Institutional	118,178	17,322	136,500	108,581	19,713	129,294	106,491	18,163	124,854
14. Schools and other educational buildings	55,271	6,741	62,012	56,474	8,023	64,497	58,783	7,880	66,663
15. Churches and other religious buildings	11,244	3,399	14,643	11,478	3,280	14,758	12,399	3,068	15,467
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	36,495	5,672	42,167	33,838	5,094	38,932	30,106	4,895	35,001
17. Other institutional buildings	16,168	1,510	17,678	7,791	3,316	11,107	5,203	2,320	7,523
Other building construction	49,925	16,983	66,908	50,807	18,004	68,811	69,762	17,722	87,484
18. Farm buildings (excluding dwellings)	17,059	12,372	29,431	19,619	13,583	33,202	18,525	13,413	31,938
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	15,082	906	15,988	17,264	880	18,144	21,146	887	22,033
20. Aeroplane hangars	4,074	395	4,469	2,151	346	2,497	16,221	340	16,561
21. Passenger terminals, bus, boat or air	3,827	18	3,843	7,370	17	7,387	6,414	14	6,428
22. Armouries, barracks, drill halls, etc.	3,730	2,184	5,914	774	2,226	3,000	213	2,236	2,451
23. Bunkhouses, dormitories, camp cookeries, hush depots and camps	5,156	915	6,073	2,472	678	3,150	3,225	614	3,839
24. Other building construction	995	195	1,190	1,157	274	1,431	4,018	216	4,234
Total engineering construction	576,483	97,398	673,881	585,786	106,426	692,192	521,866	112,674	634,540
Marine construction	76,860	3,839	80,699	54,078	2,964	57,640	50,657	3,150	53,207
25. Docks, wharves, piers, breakwaters	12,096	1,453	13,549	11,249	1,375	12,624	27,706	1,517	29,223
26. Retaining walls, embankments, ripraping	369	464	833	1,695	423	2,118	135	397	532
27. Canals and waterways	55,567	278	55,645	25,764	263	26,027	6,262	262	6,524
28. Dredging and pile driving	8,285	788	9,073	14,910	383	15,293	12,864	444	13,308
29. Dyke construction	—	10	10	—	19	19	—	5	5
30. Logging booms	407	303	710	105	218	323	201	239	440
31. Other marine construction	138	543	679	353	283	638	2,889	286	3,175

TABLE 23. Quebec — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	113,223	30,778	144,001	113,215	28,807	142,022	122,972	35,571	158,543
32. Hard surfaced or paved streets, highways, parking lots, etc.	76,362	22,426	99,288	90,332	19,227	109,559	94,344	27,202	121,546
33. Gravel or stone streets, highways, roads, parking lots, etc.	16,597	4,353	20,950	7,800	5,511	13,311	12,063	5,200	17,263
34. Dirt, clay or other streets, roads, parking lots, etc.	4,674	3,199	7,873	3,890	2,941	6,831	3,123	1,951	5,074
35. Grading, scraping, oiling, filling	4,095	209	4,304	1,118	162	1,280	1,023	196	1,219
36. Sidewalks, paths	3,724	453	4,177	5,107	846	5,953	5,405	901	6,306
37. Aerodromes, landing fields, runways, tarmac	7,271	138	7,409	4,968	120	5,088	7,014	121	7,135
Waterworks and sewage systems	43,306	6,179	49,485	35,406	7,527	42,933	33,445	8,157	42,602
38. Tile drains, drainage ditches, storm sewers	13,073	155	13,228	6,273	271	6,544	7,111	212	7,323
39. Water mains, hydrants and services	18,443	4,356	22,799	14,230	4,170	18,400	13,349	4,587	17,936
40. Sewage systems and connections	11,030	1,437	12,467	10,524	2,744	13,268	11,185	2,895	14,080
41. Pumping stations, water	481	221	702	1,206	69	1,275	779	1,457	2,236
42. Water storage tanks	279	10	289	3,173	273	3,448	1,021	6	1,027
Dams and irrigation	40,766	1,043	41,808	13,764	2,754	16,518	7,260	2,036	9,296
43. Dams and reservoirs	39,633	633	40,266	12,520	2,301	14,821	6,018	1,589	7,605
44. Irrigation and land reclamation projects	1,133	410	1,543	1,244	453	1,697	1,244	447	1,691
Electric power construction	144,419	8,352	153,771	184,332	8,667	192,999	127,280	9,239	136,529
45. Electric power generating plants, including water conveying and controlling structures	67,504	3,715	71,219	88,755	1,463	88,218	62,621	1,781	64,402
46. Electric transformer stations	22,018	1,347	23,365	30,194	2,650	32,844	28,860	2,789	31,649
47. Power transmission and distribution lines, trolley wires	53,886	3,989	57,875	66,290	4,178	70,468	34,784	4,309	39,093
48. Street lighting	1,011	301	1,312	1,093	376	1,469	1,025	380	1,385
Railway, telephone and telegraph	42,109	25,873	67,982	50,300	30,276	80,578	78,900	33,324	112,324
49. Railway tracks and roadbed	21,711	16,906	38,617	20,966	20,011	40,977	41,290	22,611	63,901
50. Signals and interlockers	539	1,231	1,830	812	1,127	1,939	3,032	1,271	4,303
51. Telegraph and telephone lines, underground and marine cables	19,799	7,736	27,535	28,522	9,138	37,680	34,478	9,642	44,120
Gas and oil facilities	26,585	8,415	35,000	21,535	9,150	30,683	37,021	9,511	46,532
52. Gas mains and services	3,896	313	4,209	2,365	867	3,232	4,342	866	5,208
53. Pumping stations, oil	544	229	773	82	74	156	88	42	130
54. Pumping stations, gas	101	—	101	371	69	440	234	78	312
55. Oil storage tanks	8,563	510	7,073	4,021	659	4,680	7,100	733	7,833
56. Gas storage tanks	392	63	455	13	48	61	10	52	62
57. Oil pipe lines	778	100	878	2,895	217	3,112	1,972	198	2,170
58. Gas pipe lines	3,308	13	3,321	—	18	18	—	9	9
59. Oil wells	291	—	291	25	—	25	107	—	107
60. Gas wells	489	—	489	25	—	25	107	—	107
61. Oil refinery — processing units	10,223	7,183	17,406	11,738	7,198	18,936	23,061	7,533	30,594
62. Natural gas cleaning plants	—	4	4	—	—	—	—	—	—
Other engineering construction	89,215	11,919	101,134	113,138	16,281	129,419	65,021	10,486	75,507
63. Bridges, trestles, culverts, overpasses, viaducts	33,126	7,505	40,631	78,439	10,112	88,551	51,068	4,524	55,592
64. Tunnels and subways	35,971	154	36,125	21,791	320	22,111	3,294	342	3,636
65. Incinerators	494	13	507	30	23	53	—	19	19
66. Park systems, landscaping, sodding, etc.	2,159	742	2,901	2,833	1,626	4,459	2,302	1,131	3,433
67. Swimming pools, tennis courts, outdoor recreation facilities	853	317	1,170	1,150	573	1,723	837	600	1,437
68. Mine shafts and other below surface workings	10,179	729	10,908	3,366	639	4,005	3,165	673	3,838
69. Fences, snowsheds, signs, guard rails	1,634	1,569	3,203	1,686	1,655	3,341	1,672	1,702	3,374
70. Other engineering construction	4,799	890	5,689	3,843	1,333	5,176	2,683	1,495	4,178

TABLE 24. Ontario

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	2,066,289	440,722	2,507,011	2,238,631	454,089	2,692,740	2,091,829	471,775	2,563,604
Total building construction	1,254,016	277,947	1,531,963	1,342,185	289,544	1,631,729	1,362,064	293,248	1,655,312
Residential	559,000	149,000	708,000	717,700	161,500	879,200	663,300	163,800	827,100
Industrial	247,547	52,545	300,092	120,613	47,873	168,486	106,049	51,694	157,743
2. Factories, plants, workshops, food canneries	151,955	41,924	193,879	96,566	37,669	134,235	93,770	40,236	134,006
3. Mine and mine mill buildings	90,252	3,655	93,907	18,046	3,756	21,802	5,604	4,102	9,706
4. Railway stations, offices, roadway buildings	3,306	4,276	7,582	3,825	4,059	7,884	4,675	4,653	9,328
5. Railway shops, engine houses, water and fuel stations	2,034	2,690	4,724	2,176	2,389	4,565	2,000	2,703	4,703
Commercial	239,955	36,171	276,126	259,092	36,834	295,926	294,192	35,555	329,747
6. Warehouses, storehouses, refrigerated storage, etc.	35,327	4,042	39,369	32,998	3,523	36,521	26,357	3,301	29,658
7. Grain elevators	303	745	1,048	619	633	1,252	2,814	491	3,305
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	21,156	5,234	26,390	18,072	6,572	24,644	16,893	4,952	21,845
9. Office buildings	92,932	13,049	105,981	114,228	13,278	127,506	139,999	13,723	153,722
10. Stores, retail and wholesale	59,098	8,373	67,471	62,640	8,174	70,814	72,000	8,646	80,646
11. Garages and service stations	19,654	3,356	23,010	17,565	3,306	20,871	25,176	3,445	28,621
12. Theatres, arenas, amusement and recreational buildings	10,776	1,113	11,889	12,087	1,066	13,153	10,844	728	11,572
13. Laundries and dry cleaning establishments	709	259	968	883	282	1,165	109	269	378
Institutional	143,659	15,840	159,499	189,805	16,646	206,451	228,765	15,637	244,402
14. Schools and other educational buildings	82,571	7,337	89,908	102,242	7,756	109,998	115,310	7,290	122,600
15. Churches and other religious buildings	12,168	2,942	15,110	20,295	2,505	22,800	14,267	1,737	16,004
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	38,472	4,095	42,567	50,929	4,406	55,335	72,783	4,572	77,355
17. Other institutional buildings	10,448	1,466	11,914	16,339	1,979	18,318	26,405	2,038	28,443
Other building construction	63,855	24,391	88,246	54,975	26,691	81,666	69,758	26,562	96,320
18. Farm buildings (excluding dwellings)	25,038	17,880	42,918	29,437	20,477	49,914	30,657	20,356	51,013
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	17,121	312	17,433	9,445	342	9,787	13,743	347	14,090
20. Aeroplane hangars	2,510	752	3,262	1,794	794	2,588	3,011	800	3,811
21. Passenger terminals, bus, boat or air	—	49	49	4,653	32	4,685	6,803	95	6,898
22. Armouries, barracks, drill halls, etc.	4,847	3,559	8,406	1,591	3,660	5,251	2,390	3,669	6,059
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	6,134	1,160	7,294	2,593	998	3,591	1,365	918	2,283
24. Other building construction	8,205	679	8,884	5,462	368	5,850	11,789	377	12,166
Total engineering construction	812,273	182,775	975,048	896,466	164,545	1,061,011	729,765	178,527	908,292
Marine construction	40,940	2,958	43,898	56,614	4,444	61,058	27,726	4,389	32,115
25. Docks, wharves, piers, breakwaters	7,384	1,386	8,770	9,602	967	10,569	6,625	994	7,619
26. Retaining walls, embankments, ripraping	156	185	341	205	131	336	36	146	182
27. Canals and waterways	16,862	877	17,739	3,418	867	4,285	1,457	843	2,300
28. Dredging and pile driving	8,781	167	8,948	43,198	2,217	45,415	18,867	2,198	21,065
29. Dyke construction	14	16	30	3	—	3	—	—	—
30. Logging booms	91	208	299	67	238	305	127	187	314
31. Other marine construction	7,652	119	7,771	121	24	145	614	21	635

TABLE 24. Ontario — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	156,873	46,527	203,400	164,856	46,672	211,528	170,667	47,724	218,391
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	120,571	20,146	140,717	128,867	21,963	150,830	131,856	22,911	154,767
33. Gravel or stone streets, highways, roads, parking lots, etc.	19,612	18,370	37,982	20,493	18,285	38,778	21,290	18,369	39,659
34. Dirt, clay or other streets, roads, parking lots, etc.	3,258	4,168	7,426	2,696	3,162	5,858	2,219	3,047	5,266
35. Grading, scraping, oiling, filling	2,207	1,709	3,916	2,077	1,278	3,355	1,929	1,334	3,263
36. Sidewalks, paths	3,991	1,700	5,691	5,434	1,536	6,970	5,733	1,611	7,344
37. Aerodromes, landing fields, runways, tarmac	7,234	434	7,668	5,289	448	5,737	7,640	452	8,092
Waterworks and sewage systems	72,578	9,896	82,474	74,364	11,436	85,800	104,990	11,874	116,864
38. Tile drains, drainage ditches, storm sewers	3,992	1,943	5,935	4,266	2,762	7,028	3,795	2,712	6,507
39. Water mains, hydrants and services	21,889	4,197	26,086	20,409	4,966	25,375	27,481	5,444	32,925
40. Sewage systems and connections	38,864	3,034	41,898	45,234	2,983	48,217	67,986	3,084	71,070
41. Pumping stations, water	6,025	668	6,693	3,469	691	4,160	4,581	608	5,189
42. Water storage tanks	1,808	54	1,862	986	34	1,020	1,147	26	1,173
Dams and irrigation	5,060	793	5,853	4,648	954	5,602	4,779	1,103	5,882
43. Dams and reservoirs	3,383	193	3,576	2,702	269	2,971	2,868	422	3,290
44. Irrigation and land reclamation projects	1,677	600	2,277	1,946	685	2,631	1,911	681	2,592
Electric power construction	176,403	21,197	197,600	172,973	21,905	194,878	150,424	23,700	174,124
45. Electric power generating plants, including water conveying and controlling structures	112,761	3,966	116,727	89,040	3,919	92,959	77,559	4,663	82,222
46. Electric transformer stations	9,352	3,041	12,393	20,946	2,880	23,826	22,240	3,032	25,272
47. Power transmission and distribution lines, trolley wires	51,470	12,873	64,343	60,128	13,269	73,397	47,979	14,146	62,125
48. Street lighting	2,820	1,317	4,137	2,859	1,837	4,696	2,646	1,859	4,505
Railway, telephone and telegraph	74,506	57,415	131,921	82,310	54,631	138,941	95,704	62,464	158,168
49. Railway tracks and roadbed	37,402	40,034	77,436	41,883	38,524	80,407	47,399	44,697	92,096
50. Signals and interlockers	2,537	2,329	4,866	1,820	1,908	3,726	2,053	2,167	4,220
51. Telegraph and telephone lines, underground and marine cables	34,567	15,052	49,619	38,607	14,199	52,806	46,252	15,600	61,852
Gas and oil facilities	196,425	11,971	208,396	252,715	11,430	264,145	69,531	13,497	83,028
52. Gas mains and services	21,661	1,581	23,242	32,745	580	33,325	12,462	639	13,101
53. Pumping stations, oil	1,232	173	1,405	451	138	589	52	144	196
54. Pumping stations, gas	26	11	37	6,466	5	6,471	19,119	2	19,121
55. Oil storage tanks	8,152	1,478	7,630	3,070	1,669	4,739	4,054	1,946	6,000
56. Gas storage tanks	—	1	1	16	1	17	266	—	266
57. Oil pipe lines	12,399	588	12,987	1,472	201	1,673	196	226	422
58. Gas pipe lines	103,643	350	103,993	159,124	1,233	160,357	18,921	1,352	20,273
59. Oil wells	361	3	364	698	31	729	828	34	862
60. Gas wells	1,349	117	1,466	639	62	701	768	63	831
61. Oil refinery — processing units	49,525	7,629	57,154	48,023	7,510	55,533	12,865	9,091	21,956
62. Natural gas cleaning plants	77	40	117	11	—	11	—	—	—
Other engineering construction	89,488	12,018	101,506	87,986	13,073	101,059	105,944	13,776	119,720
63. Bridges, trestles, culverts, overpasses, viaducts	46,292	5,481	51,773	50,150	5,652	55,802	55,764	6,197	61,961
64. Tunnels and subways	2,064	104	2,168	5,198	201	5,399	16,959	203	17,162
65. Incinerators	28	40	68	18	1,214	1,232	181	1,206	1,367
66. Park systems, landscaping, sodding, etc.	762	1,302	2,064	4,698	1,236	5,934	6,562	1,207	7,769
67. Swimming pools, tennis courts, outdoor recreation facilities ...	39	190	229	532	222	754	243	227	470
68. Mine shafts and other below surface workings	31,984	311	32,295	19,527	533	20,060	13,201	559	13,760
69. Fences, snowsheds, signs, guard rails	2,356	3,046	5,402	2,380	2,965	5,365	2,208	3,107	5,315
70. Other engineering construction	5,963	1,544	7,507	5,483	1,030	6,513	10,846	1,070	11,916

TABLE 25. Manitoba

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	258,107	69,199	327,306	273,789	69,693	343,482	318,565	73,987	392,552
Total building construction	131,636	35,056	166,692	160,269	36,838	197,107	175,611	37,382	212,993
Residential	51,000	14,000	65,000	71,500	15,700	87,200	66,000	15,800	81,800
Industrial	20,909	6,159	27,068	37,434	5,761	43,195	42,916	6,117	49,033
2. Factories, plants, workshops, food canneries	15,095	3,177	18,272	24,261	3,012	27,273	28,924	3,017	31,941
3. Mine and mine mill buildings	4,416	115	4,531	11,284	100	11,384	10,411	94	10,505
4. Railway stations, offices, roadway buildings	751	1,446	2,197	1,268	1,464	2,732	1,619	1,679	3,298
5. Railway shops, engine houses, water and fuel stations	647	1,421	2,068	621	1,185	1,806	1,962	1,327	3,289
Commercial	27,092	5,502	32,594	25,579	5,453	31,032	28,372	5,256	33,628
6. Warehouses, storehouses, refrigerated storage, etc.	2,272	920	3,192	3,014	690	3,704	8,461	679	9,140
7. Grain elevators	941	764	1,705	906	653	1,559	925	569	1,494
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,912	775	3,687	1,092	809	1,901	1,463	659	2,122
9. Office buildings	12,516	1,127	13,645	9,118	1,494	10,612	6,073	1,581	7,654
10. Stores, retail and wholesale	5,278	1,348	6,626	9,621	1,345	11,166	8,189	1,272	10,461
11. Garages and service stations	1,630	391	2,021	826	239	1,065	1,789	291	2,080
12. Theatres, arenas, amusement and recreational buildings	1,512	113	1,625	793	117	910	452	133	585
13. Laundries and dry cleaning establishments	29	64	93	9	106	115	20	72	92
Institutional	21,589	3,305	24,894	16,281	3,515	19,796	26,371	3,705	30,076
14. Schools and other educational buildings	11,009	2,157	13,166	11,565	2,415	13,980	15,319	2,677	17,996
15. Churches and other religious buildings	2,642	220	2,862	1,689	139	1,828	1,387	147	1,534
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	6,965	641	7,606	2,307	835	3,142	8,925	764	9,689
17. Other institutional buildings	973	287	1,260	720	126	846	740	117	857
Other building construction	11,046	6,090	17,136	9,475	6,409	15,884	11,952	6,504	18,456
18. Farm buildings (excluding dwellings)	6,144	4,394	10,538	6,637	4,725	11,362	6,522	4,756	11,278
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	1,765	154	1,919	1,655	169	1,824	1,075	185	1,260
20. Aeroplane hangars	297	242	539	27	226	253	16	222	238
21. Passenger terminals, bus, boat or air	—	58	58	372	56	428	3,006	60	3,066
22. Armouries, barracks, drill halls, etc.	1,072	1,133	2,205	286	1,106	1,392	10	1,115	1,125
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	167	88	255	92	60	152	244	57	301
24. Other building construction	1,601	21	1,622	406	67	473	1,079	109	1,168
Total engineering construction	126,471	34,143	160,614	113,520	32,855	146,375	142,954	36,605	179,559
Marine construction	470	205	675	487	251	738	487	251	738
25. Docks, wharves, piers, breakwaters	437	173	610	419	192	611	474	197	671
26. Retaining walls, embankments, riprapping	14	5	19	61	4	65	—	4	4
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	5	5	10	—	27	27	—	28	28
29. Dyke construction	—	—	—	—	—	—	4	—	4
30. Logging booms	10	10	20	7	7	14	9	7	16
31. Other marine construction	4	12	16	—	21	21	—	15	15

TABLE 25. Manitoba — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	29,836	7,978	37,814	34,348	6,935	41,283	49,525	7,843	57,368
32. Hard surfaced or paved streets, highways, parking lots, etc....	12,764	2,273	15,037	15,042	1,489	16,531	18,406	2,448	20,854
33. Gravel or stone streets, highways, roads, parking lots, etc.	6,766	3,227	9,993	4,187	3,405	7,592	4,811	2,989	7,800
34. Dirt, clay or other streets, roads, parking lots, etc.	1,648	1,103	2,751	12,084	1,695	13,779	22,139	1,790	23,929
35. Grading, scraping, oiling, filling	7,992	1,181	9,153	294	100	394	413	373	786
36. Sidewalks, paths	433	143	576	558	177	735	583	173	756
37. Aerodromes, landing fields, runways, tarmac	233	71	304	2,183	69	2,252	3,173	70	3,243
Waterworks and sewage systems	6,681	1,330	8,011	7,924	1,396	9,320	10,363	1,387	11,750
38. Tile drains, drainage ditches, storm sewers	929	112	1,041	368	314	682	412	210	622
39. Water mains, hydrants and services	2,805	993	3,798	2,756	741	3,497	6,063	769	6,832
40. Sewage systems and connections	2,916	200	3,116	3,950	310	4,260	3,026	383	3,409
41. Pumping stations, water	26	25	51	797	31	828	829	15	844
42. Water storage tanks	5	—	5	53	—	53	33	10	43
Dams and irrigation	664	238	902	3,851	546	4,397	5,563	606	6,169
43. Dams and reservoirs	134	91	225	86	105	191	1,781	105	1,886
44. Irrigation and land reclamation projects	530	147	677	3,765	441	4,206	3,782	501	4,283
Electric power construction	13,514	1,407	14,921	24,372	1,165	25,537	22,955	1,312	24,267
45. Electric power generating plants, including water conveying and controlling structures	9,032	507	9,539	16,209	419	16,628	14,290	480	14,770
46. Electric transformer stations	1,021	99	1,120	1,725	144	1,869	2,236	147	2,383
47. Power transmission and distribution lines, trolley wires	3,265	733	3,998	5,611	562	6,173	5,583	643	6,226
48. Street lighting	196	68	264	827	40	867	846	42	888
Railway, telephone and telegraph	19,843	16,794	36,637	19,559	16,730	36,289	23,731	19,032	42,763
49. Railway tracks and roadbed	12,634	13,502	26,136	13,758	13,143	26,901	16,971	15,068	32,039
50. Signals and interlockers	277	428	705	617	650	1,267	918	736	1,654
51. Telegraph and telephone lines, underground and marine cables	6,932	2,884	9,796	5,184	2,937	8,121	5,842	3,228	9,070
Gas and oil facilities	45,177	1,133	46,310	12,287	1,120	13,407	11,899	1,421	13,320
52. Gas mains and services	3,242	—	3,242	2,000	1	2,001	4,448	2	4,450
53. Pumping stations, oil	539	256	795	1,006	193	1,199	41	197	238
54. Pumping stations, gas	23	5	28	3,500	—	3,506	—	—	—
55. Oil storage tanks	606	43	649	817	114	931	707	99	806
56. Gas storage tanks	58	7	65	—	—	—	143	—	143
57. Oil pipe lines	2,281	117	2,398	743	100	843	600	80	680
58. Gas pipe lines	31,405	—	31,405	107	—	107	244	—	244
59. Oil wells	3,308	325	3,633	1,300	410	1,710	1,805	436	2,241
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery—processing units	3,715	380	4,095	2,814	302	3,116	3,911	607	4,518
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	10,286	5,058	15,344	10,692	4,712	15,404	18,431	4,753	23,184
63. Bridges, trestles, culverts, overpasses, viaducts	4,918	2,006	6,924	5,301	1,763	7,064	9,363	1,802	11,165
64. Tunnels and subways	—	—	—	29	—	29	122	—	122
65. Incinerators	—	15	15	151	15	166	500	15	515
66. Park systems, landscaping, sodding, etc.	230	134	364	64	130	194	14	128	142
67. Swimming pools, tennis courts, outdoor recreation facilities	262	7	269	116	7	123	417	72	489
68. Mine shafts and other below surface workings	3,260	649	3,909	3,843	542	4,385	2,298	499	2,797
69. Fences, snowsheds, signs, guard rails	804	807	1,611	543	704	1,247	589	742	1,331
70. Other engineering construction	812	1,440	2,252	645	1,551	2,196	5,128	1,495	6,623

TABLE 26. Saskatchewan

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	278,426	75,134	353,560	300,891	75,155	376,046	288,193	79,278	367,471
Total building construction	123,293	39,408	162,703	145,492	38,580	184,072	136,727	38,883	175,610
Residential	53,000	14,000	67,000	63,700	13,900	77,600	53,700	13,200	68,900
Industrial	13,718	4,237	17,955	16,580	3,489	20,069	9,092	3,804	12,896
2. Factories, plants, workshops, food canneries	6,809	2,121	8,930	10,770	1,469	12,239	4,124	1,435	5,559
3. Mine and mine mill buildings	5,642	183	5,825	4,128	189	4,317	3,070	219	3,289
4. Railway stations, offices, roadway buildings	797	1,280	2,077	1,126	1,297	2,423	1,366	1,500	2,866
5. Railway shops, engine houses, water and fuel stations	470	653	1,123	556	534	1,090	532	650	1,182
Commercial	18,927	6,184	25,111	25,074	6,017	31,091	24,508	5,847	30,355
6. Warehouses, storehouses, refrigerated storage, etc.	2,183	739	2,922	2,880	548	3,428	2,013	499	2,512
7. Grain elevators	3,643	2,548	6,191	3,737	2,277	6,014	3,833	1,993	5,826
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	429	578	1,007	474	494	968	2,132	563	2,695
9. Office buildings	4,519	1,022	5,541	7,582	1,401	8,983	7,666	1,411	9,077
10. Stores, retail and wholesale	5,446	913	6,359	7,780	927	8,707	6,856	996	7,852
11. Garages and service stations	2,307	229	2,536	1,493	204	1,697	1,789	222	2,011
12. Theatres, arenas, amusement and recreational buildings	400	129	529	1,065	95	1,160	177	117	294
13. Laundries and dry cleaning establishments	-	26	26	63	71	134	42	46	88
Institutional	19,363	3,803	23,166	22,842	3,760	26,602	27,612	4,436	32,048
14. Schools and other educational buildings	10,999	1,792	12,791	12,124	2,353	14,477	14,049	3,062	17,111
15. Churches and other religious buildings	1,009	187	1,196	1,734	296	2,030	2,158	221	2,379
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	5,544	1,538	7,082	7,184	890	8,074	10,551	917	11,468
17. Other institutional buildings	1,811	286	2,097	1,800	221	2,021	854	238	1,090
Other building construction	18,267	11,184	29,471	17,296	11,414	28,710	19,815	11,596	31,411
18. Farm buildings (excluding dwellings)	14,781	10,522	25,303	14,583	10,724	25,307	14,995	10,882	25,877
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	1,655	83	1,738	1,613	77	1,690	2,827	84	2,711
20. Aeroplane hangars	15	100	115	50	95	145	50	98	148
21. Passenger terminals, bus, boat or air	4	-	4	613	15	628	1,143	18	1,161
22. Armouries, barracks, drill halls, etc.	210	301	511	-	294	294	417	298	713
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	398	107	505	161	63	224	98	57	155
24. Other building construction	1,224	71	1,295	276	146	422	485	161	646
Total engineering construction	155,131	35,726	190,857	155,399	36,575	191,974	151,466	40,395	191,861
Marine construction	117	43	160	72	95	167	75	98	173
25. Docks, wharves, piers, breakwaters	109	27	136	65	81	146	68	91	159
26. Retaining walls, embankments, ripraping	-	-	-	1	-	1	-	-	-
27. Canals and waterways	-	-	-	-	-	-	-	-	-
28. Dredging and pile driving	-	-	-	-	-	-	-	-	-
29. Dyke construction	-	-	-	-	-	-	-	-	-
30. Logging booms	8	9	17	6	7	13	7	6	13
31. Other marine construction	-	7	7	-	7	7	-	1	1

TABLE 26. Saskatchewan — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	26,374	10,069	36,443	35,102	11,333	46,435	36,395	11,905	48,300
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	10,900	1,982	12,882	10,393	2,775	13,168	11,463	3,157	14,620
33. Gravel or stone streets, highways, roads, parking lots, etc.	10,624	5,370	15,994	16,420	6,315	22,735	17,146	6,618	23,764
34. Dirt, clay or other streets, roads, parking lots, etc.	3,356	2,516	5,872	5,161	1,980	7,141	5,393	1,868	7,261
35. Grading, scraping, oiling, filling	93	25	118	8	16	24	17	19	36
36. Sidewalks, paths	1,204	137	1,341	2,121	186	2,307	1,582	187	1,769
37. Aerodromes, landing fields, runways, tarmac	197	39	236	999	61	1,060	794	56	850
Waterworks and sewage systems	11,526	1,470	12,996	9,426	1,247	10,673	8,873	1,298	10,171
38. Tile drains, drainage ditches, storm sewers	68	93	161	388	104	490	1,102	96	1,198
39. Water mains, hydrants and services	2,688	757	3,445	2,153	648	2,801	2,172	684	2,856
40. Sewage systems and connections	8,252	499	8,751	5,405	457	5,862	4,870	498	5,368
41. Pumping stations, water	518	85	603	648	36	684	525	19	544
42. Water storage tanks	—	36	36	834	2	836	204	1	205
Dams and irrigation	2,128	814	2,942	6,656	890	7,546	13,854	1,014	14,868
43. Dams and reservoirs	718	307	1,025	69	300	369	88	427	515
44. Irrigation and land reclamation projects	1,410	507	1,917	6,587	590	7,177	13,766	587	14,353
Electric power construction	16,703	1,455	18,158	13,071	1,484	14,555	21,513	1,915	23,428
45. Electric power generating plants, including water conveying and controlling structures	261	109	370	1,274	96	1,370	1,214	110	1,324
46. Electric transformer stations	95	23	118	62	30	92	231	36	267
47. Power transmission and distribution lines, trolley wires	16,101	1,131	17,232	11,461	1,000	12,461	19,821	1,390	21,211
48. Street lighting	246	192	438	274	358	632	247	379	626
Railway, telephone and telegraph	14,820	13,784	28,604	17,318	14,533	31,851	18,787	16,789	35,576
49. Railway tracks and roadbed	9,817	11,952	21,769	11,724	11,888	23,612	13,696	13,774	27,470
50. Signals and interlockers	263	342	605	505	591	1,098	646	672	1,318
51. Telegraph and telephone lines, underground and marine cables	4,740	1,490	6,230	5,089	2,054	7,143	4,445	2,343	6,788
Gas and oil facilities	73,761	4,350	80,111	62,712	3,023	65,735	40,189	3,094	43,283
52. Gas mains and services	7,518	150	7,668	1,275	29	1,304	5,726	112	5,838
53. Pumping stations, oil	516	255	771	2,312	414	2,726	127	406	533
54. Pumping stations, gas	39	—	39	11,530	8	11,538	—	11	11
55. Oil storage tanks	1,324	298	1,622	1,699	209	1,908	1,594	244	1,838
56. Gas storage tanks	73	—	73	545	—	545	29	—	29
57. Oil pipe lines	6,407	182	6,589	5,287	144	5,431	280	141	421
58. Gas pipe lines	13,825	64	13,889	15,600	420	16,020	10,854	385	11,239
59. Oil wells	44,929	1,372	46,301	20,141	1,040	21,181	19,666	1,079	20,745
60. Gas wells	706	33	739	353	33	386	328	9	337
61. Oil refinery — processing units	424	1,996	2,420	3,970	726	4,696	1,585	707	2,292
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	7,702	3,741	11,443	11,042	3,970	15,012	11,780	4,282	16,062
63. Bridges, trestles, culverts, overpasses, viaducts	2,123	914	3,037	2,525	1,222	3,747	4,852	1,376	6,228
64. Tunnels and subways	—	111	111	473	23	496	527	4	531
65. Incinerators	11	3	14	195	73	268	195	76	271
66. Park systems, landscaping, sodding, etc.	80	22	102	319	26	345	207	63	270
67. Swimming pools, tennis courts, outdoor recreation facilities	10	3	13	18	6	24	—	8	6
68. Mine shafts and other below surface workings	3,687	487	4,174	5,966	461	6,427	3,467	535	4,002
69. Fences, snowsheds, signs, guard rails	1,461	1,939	3,400	910	1,818	2,728	892	1,871	2,763
70. Other engineering construction	330	262	592	636	341	977	1,640	351	1,991

TABLE 27. Alberta

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	585,451	121,554	707,005	679,683	124,009	803,692	667,538	132,030	799,568
Total building construction	268,390	63,190	331,580	314,776	67,476	382,252	310,062	71,976	382,038
Residential	122,000	32,000	154,000	179,600	38,600	218,200	173,800	42,600	216,400
Industrial	18,008	5,190	23,198	11,221	4,627	15,848	8,894	4,952	13,846
2. Factories, plants, workshops, food canneries	15,599	2,898	18,497	9,311	2,638	11,949	6,900	2,687	9,587
3. Mine and mine mill buildings	336	228	564	20	82	102	132	67	199
4. Railway stations, offices, roadway buildings	1,191	1,219	2,410	938	1,185	2,123	1,129	1,369	2,498
5. Railway shops, engine houses, water and fuel stations	882	845	1,727	952	722	1,674	733	829	1,562
Commercial	50,544	10,553	61,097	48,928	9,171	58,099	53,765	8,718	62,483
6. Warehouses, storehouses, refrigerated storage, etc.	9,539	1,073	10,612	4,153	855	5,008	5,403	906	6,309
7. Grain elevators	2,135	1,472	3,607	1,668	1,320	2,988	399	1,183	1,582
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	3,952	1,301	5,253	2,946	1,889	4,835	2,594	1,432	4,026
9. Office buildings	14,638	4,080	18,718	20,265	2,721	22,986	21,932	2,908	24,840
10. Stores, retail and wholesale	12,037	1,760	13,797	14,716	1,538	16,254	16,673	1,514	18,187
11. Garages and service stations	4,693	577	5,270	3,414	470	3,884	4,305	573	4,878
12. Theatres, arenas, amusement and recreational buildings	3,330	202	3,532	1,141	313	1,454	2,412	157	2,569
13. Laundries and dry cleaning establishments	220	88	308	625	65	690	47	45	92
Institutional	51,862	4,179	56,041	52,364	3,493	55,857	51,101	4,049	55,150
14. Schools and other educational buildings	38,834	2,281	41,115	35,904	2,210	38,114	35,302	2,482	37,784
15. Churches and other religious buildings	1,720	208	1,928	1,674	169	1,843	1,828	157	1,985
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	7,758	1,176	8,934	10,237	597	10,834	8,029	592	8,621
17. Other institutional buildings	3,550	514	4,064	4,549	517	5,066	5,942	818	6,760
Other building construction	25,976	11,268	37,244	22,663	11,585	34,248	22,502	11,657	34,159
18. Farm buildings (excluding dwellings)	13,438	9,676	23,114	14,023	10,151	24,174	14,173	10,133	24,306
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	8,087	190	8,277	3,581	191	3,772	3,274	242	3,516
20. Aeroplane hangars	100	216	316	114	206	320	40	218	258
21. Passenger terminals, bus, boat or air	56	72	128	2,821	20	2,841	1,479	21	1,500
22. Armouries, barracks, drill halls, etc.	1,388	832	2,220	284	798	1,082	1,043	806	1,849
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	2,349	205	2,554	1,019	187	1,206	1,120	198	1,318
24. Other building construction	558	77	635	821	32	853	1,373	39	1,412
Total engineering construction	317,061	58,364	375,425	364,907	56,533	421,440	357,476	60,054	417,530
Marine construction	239	84	323	182	129	311	149	134	283
25. Docks, wharves, piers, breakwaters	125	54	179	148	107	255	136	113	249
26. Retaining walls, embankments, ripraping	47	—	47	23	—	23	—	—	—
27. Canals and waterways	—	4	4	—	—	—	—	—	—
28. Dredging and pile driving	3	8	11	—	8	8	—	8	8
29. Dyke construction	—	1	1	—	1	1	—	1	1
30. Logging booms	14	17	31	11	13	24	13	12	25
31. Other marine construction	50	—	50	—	—	—	—	—	—

TABLE 27. Alberta — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	71,901	20,466	92,367	66,958	20,217	87,175	71,295	20,246	91,541
32. Hard surfaced or paved streets, highways, parking lots, etc....	30,332	6,320	36,652	32,689	3,961	36,650	40,328	3,628	44,156
33. Gravel or stone streets, highways, roads, parking lots, etc.	19,655	8,988	28,643	19,066	12,936	32,002	16,721	12,976	29,697
34. Dirt, clay or other streets, roads, parking lots, etc.	5,091	4,644	9,735	3,328	2,152	5,480	3,613	2,449	6,062
35. Grading, scraping, oiling, filling.....	9,871	44	9,915	3,934	688	4,622	4,402	584	4,986
36. Sidewalks, paths	3,601	265	3,866	3,275	285	3,560	2,892	202	3,094
37. Aerodromes, landing fields, runways, tarmac	3,351	205	3,556	4,666	195	4,861	3,339	207	3,546
Waterworks and sewage systems	18,819	2,336	21,155	17,673	2,566	20,239	16,308	2,480	18,788
38. Tile drains, drainage ditches, storm sewers	174	75	249	359	77	436	442	73	515
39. Water mains, hydrants and services	5,424	1,484	6,908	5,285	1,218	6,503	5,014	1,487	6,501
40. Sewage systems and connections	12,569	706	13,275	11,469	1,134	12,603	10,761	770	11,531
41. Pumping stations, water	579	61	640	187	135	322	22	147	169
42. Water storage tanks	73	10	83	373	2	375	89	3	72
Dams and irrigation	7,153	960	8,113	6,468	954	7,422	6,136	847	6,983
43. Dams and reservoirs	889	242	1,131	74	231	305	978	122	1,100
44. Irrigation and land reclamation projects.....	6,264	718	6,982	6,394	723	7,117	5,158	725	5,883
Electric power construction	17,002	2,719	19,721	16,013	2,564	18,577	15,130	2,931	18,061
45. Electric power generating plants, including water conveying and controlling structures.....	4,094	261	4,355	3,741	209	3,950	2,363	327	2,890
46. Electric transformer stations	1,102	133	1,235	1,875	161	2,036	2,326	192	2,518
47. Power transmission and distribution lines, trolley wires	9,992	2,090	12,082	7,980	1,982	9,962	7,815	2,177	9,992
48. Street lighting	1,814	235	2,049	2,417	212	2,629	2,628	235	2,861
Railway, telephone and telegraph	20,416	14,711	35,127	19,567	14,400	33,967	22,244	16,923	39,167
49. Railway tracks and roadbed	10,974	12,391	23,365	11,781	11,904	23,685	14,554	14,046	28,602
50. Signals and interlockers	1,241	414	1,655	411	533	944	562	599	1,161
51. Telegraph and telephone lines, underground and marine cables	8,201	1,906	10,107	7,375	1,963	9,338	7,128	2,276	9,404
Gas and oil facilities.....	168,420	10,908	179,328	223,964	9,570	233,534	203,359	10,164	213,523
52. Gas mains and services.....	2,155	355	2,510	4,202	831	4,833	7,007	663	7,670
53. Pumping stations, oil	5,320	643	5,963	1,831	587	2,418	586	488	1,074
54. Pumping stations, gas	—	10	10	71	10	81	57	12	69
55. Oil storage tanks	3,751	402	4,153	2,881	231	3,112	3,602	256	3,858
56. Gas storage tanks	—	32	32	493	9	502	1	9	10
57. Oil pipe lines	15,774	342	16,116	12,442	355	12,797	2,325	465	2,790
58. Gas pipe lines	13,923	601	14,524	32,540	240	32,780	13,639	332	13,971
59. Oil wells	98,334	4,119	102,453	114,110	3,474	117,584	124,951	3,712	128,663
60. Gas wells	15,633	325	15,958	17,617	221	17,838	20,472	260	20,752
61. Oil refinery — processing units	8,185	3,518	9,703	11,382	3,179	14,561	8,113	3,125	11,238
62. Natural gas cleaning plants	7,345	561	7,906	26,395	633	27,028	22,606	822	23,428
Other engineering construction	13,111	6,180	19,291	14,082	6,133	20,215	22,855	6,329	29,184
63. Bridges, trestles, culverts, overpasses, viaducts	10,572	4,193	14,765	9,560	4,254	13,814	11,043	4,390	15,433
64. Tunnels and subways	70	5	75	317	6	323	65	10	75
65. Incinerators	147	6	153	45	26	71	25	6	31
66. Park systems, landscaping, sodding, etc.	126	109	235	770	203	973	311	169	480
67. Swimming pools, tennis courts, outdoor recreation facilities	85	51	136	154	50	204	—	50	50
68. Mine shafts and other below surface workings	—	45	45	181	46	227	214	34	248
69. Fences, snowsheds, signs, guard rails	1,241	1,142	2,383	890	1,061	1,951	939	1,103	2,042
70. Other engineering construction	870	629	1,499	2,165	487	2,852	10,258	567	10,825

TABLE 28. British Columbia

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	907,553	142,747	1,050,300	688,209	141,541	829,750	677,147	152,594	829,741
Total building construction	392,074	76,790	468,864	342,969	77,083	420,052	362,066	83,444	445,510
Residential	174,000	45,000	219,000	210,900	46,000	256,900	214,300	52,900	267,200
Industrial	71,108	9,515	80,623	21,686	9,246	30,932	23,570	8,899	32,469
2. Factories, plants, workshops, food canneries	64,341	7,471	71,812	19,327	6,613	25,940	19,897	6,425	26,322
3. Mine and mine mill buildings	4,362	354	4,716	418	856	1,274	1,626	481	2,107
4. Railway stations, offices, roadway buildings	1,583	1,113	2,696	1,327	1,309	2,636	1,445	1,435	2,880
5. Railway shops, engine houses, water and fuel stations	822	577	1,399	614	468	1,082	602	558	1,180
Commercial	57,839	9,033	66,872	47,107	9,643	56,730	44,829	9,834	54,663
6. Warehouses, storehouses, refrigerated storage, etc.	9,511	1,329	10,840	7,262	1,421	8,683	7,499	1,345	8,844
7. Grain elevators	52	152	204	176	104	280	75	97	172
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	8,005	1,514	9,519	2,093	1,494	3,587	2,502	1,588	4,070
9. Office buildings	16,428	2,328	18,756	16,476	3,036	19,512	12,086	3,377	15,463
10. Stores, retail and wholesale	15,772	2,328	18,100	13,860	2,086	15,946	14,807	2,089	16,696
11. Garages and service stations	6,057	924	6,981	4,846	884	5,730	6,585	862	7,447
12. Theatres, arenas, amusement and recreational buildings	1,855	316	2,171	2,008	501	2,509	1,218	339	1,557
13. Laundries and dry cleaning establishments	159	142	301	386	117	503	57	157	214
Institutional	68,712	5,950	74,662	46,822	5,478	52,300	50,314	5,187	55,501
14. Schools and other educational buildings	40,521	3,060	43,581	28,365	3,396	31,761	23,120	3,018	26,138
15. Churches and other religious buildings	2,639	254	2,893	2,018	227	2,245	4,745	271	5,018
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	17,011	1,022	18,033	14,604	1,660	16,264	20,679	1,690	22,369
17. Other institutional buildings	8,541	1,614	10,155	1,835	195	2,030	1,770	208	1,978
Other building construction	20,415	7,292	27,707	16,434	6,716	23,170	29,053	6,624	35,677
18. Farm buildings (excluding dwellings)	5,972	2,709	8,681	3,893	2,751	6,644	4,925	2,775	7,700
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	3,048	320	3,368	5,599	228	5,825	9,952	371	10,323
20. Aeroplane hangars	2,318	409	2,727	59	92	151	88	95	183
21. Passenger terminals, bus, boat or air	546	5	551	1,468	—	1,466	1,322	3	1,325
22. Armouries, barracks, drill halls, etc.	3,023	1,456	4,479	395	1,419	1,814	149	1,430	1,579
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	2,240	2,102	4,342	1,659	1,696	3,355	2,978	1,529	4,507
24. Other building construction	3,268	291	3,559	3,361	532	3,913	9,639	421	10,060
Total engineering construction	515,479	65,957	581,436	345,240	84,458	409,698	318,081	69,150	384,231
Marine construction	10,853	2,220	13,073	12,133	1,946	14,079	8,724	2,015	10,739
25. Docks, wharves, piers, breakwaters	6,812	1,403	8,215	10,456	1,422	11,878	7,359	1,487	8,846
26. Retaining walls, embankments, ripraping	485	84	549	306	59	365	8	32	40
27. Canals and waterways	63	45	108	—	—	—	—	—	—
28. Dredging and pile driving	459	167	626	856	168	1,024	1,118	211	1,329
29. Dyke construction	4	11	15	—	9	9	—	20	20
30. Logging booms	147	358	505	22	173	195	9	151	160
31. Other marine construction	2,903	152	3,055	493	115	608	230	114	344

TABLE 28. British Columbia — Concluded

Type of structure	1957			1958			1959		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	96,254	23,109	119,363	98,495	22,872	121,367	103,746	24,177	127,923
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	13,312	2,450	15,762	21,801	3,137	24,938	23,570	3,180	26,750
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	64,157	15,333	79,490	58,095	14,867	72,962	63,375	16,164	79,539
34. Dirt, clay or other streets, roads, parking lots, etc.	11,456	4,326	15,782	7,807	3,749	11,556	7,576	3,727	11,303
35. Grading, scraping, oiling, filling	814	623	1,437	524	738	1,262	121	731	852
36. Sidewalks, paths	617	362	979	1,173	368	1,541	787	362	1,149
37. Aerodromes, landing fields, runways, tarmac	5,898	15	5,913	9,095	13	9,108	8,317	13	8,330
Waterworks and sewage systems	14,242	4,535	18,777	13,583	4,145	17,728	12,784	4,289	17,073
38. Tile drains, drainage ditches, storm sewers	1,319	1,381	2,680	855	1,427	2,282	679	1,398	2,077
39. Water mains, hydrants and services	7,295	2,154	9,449	6,979	1,893	8,872	6,642	1,883	8,525
40. Sewage systems and connections	5,339	925	6,264	5,243	748	5,991	5,158	930	6,088
41. Pumping stations, water	191	62	253	410	77	487	204	74	278
42. Water storage tanks	98	33	131	96	—	96	101	4	105
Dams and irrigation	23,827	830	24,657	8,007	304	8,311	2,863	285	3,148
43. Dams and reservoirs	22,649	740	23,389	7,541	213	7,754	2,388	189	2,577
44. Irrigation and land reclamation projects	1,178	90	1,268	466	91	557	475	96	571
Electric power construction	75,951	4,616	80,567	66,227	4,653	70,880	67,243	4,954	72,197
45. Electric power generating plants, including water conveying and controlling structures	43,274	571	43,845	40,108	665	40,773	39,303	851	40,154
46. Electric transformer stations	5,028	411	5,439	723	219	942	1,260	209	1,469
47. Power transmission and distribution lines, trolley wires	26,896	2,936	29,832	24,072	3,029	27,101	25,304	3,124	28,428
48. Street lighting	753	698	1,451	1,324	740	2,064	1,376	770	2,146
Railway, telephone and telegraph	54,070	19,183	73,253	37,307	18,099	55,406	39,273	19,419	58,692
49. Railway tracks and roadbed	38,938	14,842	53,780	23,182	14,305	37,487	21,038	15,226	36,264
50. Signals and interlockers	396	510	906	516	584	1,100	749	642	1,391
51. Telegraph and telephone lines, underground and marine cables	14,736	3,831	18,567	13,609	3,210	16,819	17,486	3,551	21,037
Gas and oil facilities	183,279	2,655	185,934	58,121	3,892	62,013	35,346	4,549	39,695
52. Gas mains and services	20,503	400	20,903	12,454	322	12,776	11,597	401	11,998
53. Pumping stations, oil	5,471	124	5,595	118	159	277	37	95	132
54. Pumping stations, gas	16,603	26	16,629	549	211	760	83	185	268
55. Oil storage tanks	4,891	323	5,214	4,251	445	4,696	2,483	405	2,888
56. Gas storage tanks	803	31	834	—	—	—	—	—	—
57. Oil pipe lines	10,729	296	11,025	1,589	353	942	135	408	543
58. Gas pipe lines	63,663	2	63,665	8,790	207	8,997	2,378	240	2,618
59. Oil wells	12,961	46	13,007	8,908	65	8,973	10,546	69	10,615
60. Gas wells	4,434	11	4,445	3,168	8	3,176	4,847	9	4,856
61. Oil refinery — processing units	15,944	1,396	17,340	15,911	1,967	17,878	2,640	2,441	5,081
62. Natural gas cleaning plants	27,277	—	27,277	3,383	155	3,538	600	296	896
Other engineering construction	57,003	8,809	65,812	51,367	8,547	59,914	45,102	9,462	54,564
63. Bridges, trestles, culverts, overpasses, viaducts	37,524	4,662	42,186	35,510	4,129	39,639	32,573	4,947	37,520
64. Tunnels and subways	15,134	1	15,135	11,706	6	11,712	581	9	590
65. Incinerators	86	7	93	34	13	47	7	16	23
66. Park systems, landscaping, sodding, etc.	113	228	341	439	967	1,406	454	961	1,415
67. Swimming pools, tennis courts, outdoor recreation facilities	13	34	47	218	31	249	23	30	53
68. Mine shafts and other below surface workings	1,476	282	1,758	1,127	73	1,200	1,312	86	1,398
69. Fences, snowsheds, signs, guard rails	660	949	1,609	462	779	1,241	512	812	1,324
70. Other engineering construction	1,997	2,646	4,643	1,871	2,549	4,420	9,640	2,601	12,241

STATISTICAL NOTES

1. Definitions

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

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

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

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

2. Sources and Methods

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

Total Value of Construction by Type of Structure

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

Of the total value of construction shown, 78 per cent is the result of direct surveys of business firms, institutions, government-owned enterprises and departments and of residential building activity. The remainder is estimated. A brief outline of the methods employed to make these estimates is given in the following paragraphs. For a more complete description of these methods, see pages 19 to 23 of the report "Private and Public Investment in Canada, Outlook 1959".

The value of work figures in the tables of this report are estimates. In order to approximate full coverage in an industry group, reported data were inflated to allow for those firms which did not report. In manufacturing, the method used to inflate the reported expenditures was to multiply the known expenditures by a factor obtained by dividing the total value of shipments in 1956 of all the firms in each industry by the corresponding 1956 total for the firms reporting in the 1959 survey. In carrying out this procedure it has been assumed that the proportion of shipments of the reporting establishments in both 1956 and 1959 has not changed significantly during the period and, further, that there is a close relationship between total value of production and expenditures on construction. In the utilities, trade, finance and institutional and commercial services sectors, the same principle has been followed using appropriate basic data for the sector concerned. Expenditures reported by new establishments for which no production or other basic data are available, are included as "net additions". For some industries, which are not amenable to direct survey methods, independent estimates were made. Since reporting firms accounted for 78 per cent of the total, it is believed that the estimating procedure for the non-reporting firms and industries not covered by direct survey does not introduce any great margin of error into the total. Estimates for individual industries or regions are, of course, subject to greater error than the total figures for Canada.

Both the 1958 preliminary actual figures and the 1959 forecast estimates were reported by firms on the same questionnaire. With the reported figures covering both years coming from the same group of establishments and with the estimating techniques for non-reporting firms the same for each year, the

percentage change from 1958 to 1959 can be calculated with more precision than the absolute magnitude of expenditures in the two years.

Housing estimates were made on a different basis from those derived from information submitted directly by business or government agencies. Estimates of the value of residential construction for 1957 and 1958 were prepared by Central Mortgage and Housing Corporation. Appraisals of the probable volume of housing construction in 1959 were made by field representatives of the Central Mortgage and Housing Corporation who consulted local officials, builders, contractors, supply firms, and other individuals and firms concerned with future housing construction projects. Using information obtained from these sources and their own knowledge, the representatives of the Corporation made estimates of privately initiated housing for all municipalities in Canada with a population of 5,000 and over. The five regional offices and the head office of the Corporation checked these estimates. Independent estimates were made of privately initiated housing in areas with a population of less than 5,000, and of the total volume of public or government initiated housing likely to be undertaken. Finally, an allowance was made for conversions which amounted to a small part of the total. Allowing for probable changes in construction costs, estimates were then prepared for the value of new residential construction work performed and alterations and repair work likely to be undertaken in 1959.

Labour and Material Content

The estimates of labour and material content are derived from the application of ratios of these items to total value of work performed. The 1957 survey of construction contractors provided the basic data for deriving the ratios applied to break

down the total value of work done by contractors in the years 1957 to 1959. The ratios used to break down own account work were computed from information obtained in the capital expenditures and government departments surveys, wherein the respondent was requested to provide data on the costs involved in such work.

Indirect methods were also used in estimating the number of persons, working full-time, required to construct the facilities estimated to be erected in each of the years. In the 1951 to 1953 surveys, respondents were requested to report the average number of employees engaged in construction each month. In the 1954 survey they were asked to report the total number on the payroll during the last pay period of the month. From this point on, however, the same procedure was followed. The monthly data were summed and divided by 12 to compute the annual averages. To allow for non-response and non-coverage, this annual average number of employees of the reporting firms was "blown-up" by the relationship of estimated total salaries and wages to total salaries and wages of reporting firms. For working owners and partners reported in the contractors survey, salaries were imputed from data reported for salaried employees of construction firms and included in the labour content of the total value of work performed. The resulting figures therefore represent an estimate of the number of persons working full time throughout the year. The total number working at any given time may, of course, be above or below the average. In arriving at the average number for 1958 and 1959 an average annual earnings figure was computed from 1957, projected forward, and divided into the estimated total salaries and wages, including an allowance for working owners and partners, for these years.

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