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# CONSTRUCTION IN CANADA

1952 - 1954

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CONSTRUCTION IN CANADA  
1952 - 1954

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## INTRODUCTION

This report provides statistics on various aspects of construction activity in Canada for 1952 and 1953 together with estimates of the intended program for 1954. The figures for 1952 and earlier years are final while those for 1953 are preliminary and will be revised in the next annual report. The probable accuracy of the 1954 estimates of the intended program can be appraised only in the light of past experience. During the last five years estimates of total outlay on construction have been below final figures by from 3 to 7 per cent. It should be borne in mind also that since January, 1954, when the data contained in this report were collected, individual plans for the current year have changed in some instances. A number of new construction projects, not contemplated at the beginning of the year, have been started and some of those planned for the year have been postponed or delayed. It is particularly important to bear this in mind in any examination of the more detailed breakdowns by type of structure by industry groups or regions.

This publication is 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 1954", 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 72 different types of structure, such as: factories, office buildings, retail and wholesale stores, schools, hospitals, electric power plants, highways, railway track lines, etc. Also included are statistics on average numbers employed, salaries and wages paid 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.

Prior to 1951, construction statistics of the type shown in this report, were obtained from questionnaires received mainly from construction contractors. Because of the fact that these statistics are compiled from other sources and by different methods, they are not directly comparable with those contained in the reports entitled, "The Construction Industry in Canada". A more detailed explanation of the differences in the two series is given in the Statistical Notes on page 37.

## GENERAL REVIEW AND SUMMARY TABLES

### Value of Construction

The total value of construction to be put in place during 1954 is expected to exceed the previous all-time record achieved in 1953. The total value of construction for 1954 is estimated at \$4830 million of which \$3866 million is new work and \$964 million repair. The increase in the 1954 total over that for 1953 is about 5 per cent, the smallest increase during the post-war years. This fact, together with the expansion in the construction industry and the improved supply situation, helps to explain the keener competition in bidding for contracts which has become increasingly evident during the last two years.

Year	Total new and repair construction \$Mill	% increase over previous year in	
		Value	Volume
1947 .....	2,016	25.5	
1948 .....	2,571	27.5	12.2
1949 .....	2,856	11.1	7.1
1950 .....	3,132	9.7	4.1
1951 .....	3,661	16.9	3.9
1952 .....	4,198	14.7	8.6
1953 .....	4,595	9.5	6.2
1954 .....	4,830	5.1	-

### Volume of Construction

With only minor changes in material and labour prices recorded thus far this year, it is anticipated that the change in physical volume of construction put in place in 1954 as compared with 1953 will approximate the value change of 5 per cent. Further, since it appears that repair construction will remain relatively constant in value terms, it is felt that almost all of the increase both in value and volume

will be in new construction. Noteworthy also is the fact that in 1953 the construction industry accounted for a slightly larger share of the gross national product than in 1952. The following table illustrates the trends in the total value of construction work in the last several years and shows the portion of gross national product accounted for by the construction industry.

TABLE 1. Value of Construction Work Performed, Current and Constant (1949) Dollars, 1947-1954<sup>1</sup>

	New		Repair		Total		Total construction as percentage of gross national product	
	Current	Constant	Current	Constant	Current	Constant	Current	Constant
	\$ Mill		\$ Mill		\$ Mill		Percent	
1947 <sup>2</sup>	1,424	1,681	592	696	2,016	2,377	14.6	15.4
1948 <sup>2</sup>	1,877	1,947	694	720	2,571	2,667	16.5	17.0
1949	2,124	2,124	732	732	2,856	2,856	17.3	17.5
1950	2,366	2,247	766	727	3,132	2,974	17.2	17.2
1951	2,734	2,308	927	783	3,661	3,091	17.0	16.9
1952	3,282	2,625	916	732	4,198	3,357	18.1	17.2
1953	3,646	2,831	949	735	4,595	3,566	18.9	17.6
1954	3,866	-	964	-	4,830	-	-	-

1. Actual 1947-52, preliminary actual 1953, intentions 1954.

2. Newfoundland not included in these years.

#### Value of Work Done by Contract

The figures for the years 1952 to 1954 in the following table indicate that about 72 per cent of all construction work is carried out by contractors. Although the comparable figure for 1951, 68 per cent,

is lower, it is thought that the difference is likely due, to some extent, to more information being available from which to derive the estimates for 1952 to 1954.

TABLE 2. Value of Construction Work Performed, By Contractors and Others, 1951-1954<sup>1</sup>  
(Millions of dollars)

	Contract Construction			Other Construction <sup>2</sup>			Total Construction		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
1951	2,007	484	2,490	727	444	1,171	2,734	927	3,661
1952	2,641	386	3,027	641	531	1,171	3,282	916	4,198
1953	2,923	360	3,283	723	589	1,312	3,646	949	4,595
1954	3,112	378	3,490	754	586	1,340	3,866	964	4,830

1. Actual 1951-52, preliminary actual 1953, intentions 1954.

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

#### Principal Types of Construction

Estimates for 1954 show a continuation of the shift of the industries' efforts from engineering to building construction which started in 1953. The largest single increase (25.6%) in the building construction category is expected to be recorded by institutional building which is estimated at \$422 million for 1954 as compared with \$336 million in 1953. Hospitals and schools account for \$59 million and \$22 million respectively of this increase. Commercial and other building also show increases whereas industrial building registers a decline. Although residential construction is expected to increase this year by about 3 or 4 per cent, it will

remain relatively constant as a proportion of total construction. In this connection it is interesting to note that except in 1952 this type of work accounts for about 28 per cent of all construction.

In engineering it is anticipated that gas and oil facilities will register the largest increase in 1954, followed by waterworks and sewage systems and marine construction. All other principal types of engineering are expected to decline except electric power construction which will remain relatively unchanged.

TABLE 3. Value of Construction Work Performed, By Principal Types of Construction, 1951-1954<sup>1</sup>

	1951		1952		1953		1954	
	Value	Per cent of total						
	\$ Mill	%						
Total Construction .....	3,661	100.0	4,199	100.0	4,595	100.0	4,830	100.0
Total Building Construction .....	2,311	63.1	2,411	57.4	2,732	59.5	2,914	60.3
Residential .....	1,042	28.5	1,029	24.5	1,299	28.3	1,347	27.9
Industrial .....	483	13.2	509	12.1	497	10.8	472	9.8
Commercial .....	400	10.9	454	10.8	513	11.2	575	11.9
Institutional .....	291	7.9	314	7.5	336	7.3	422	8.7
Other .....	94	2.6	105	2.5	87	1.9	98	2.0
Total Engineering .....	1,350	36.9	1,788	42.6	1,863	40.5	1,916	39.7
Road, Highway and Bridge Construction .....	442	12.1	574	13.7	572	12.4	564	11.7
Waterworks and Sewage Systems....	86	2.3	136	3.2	119	2.6	139	2.9
Dams and Irrigation .....	30	0.8	66	1.6	61	1.3	35	0.7
Electric Power Construction .....	348	9.5	386	9.2	414	9.0	415	8.6
Railway, Telephone and Telegraph Construction .....	276	7.5	296	7.0	314	6.8	308	6.4
Gas and Oil Facilities .....	92	2.5	215	5.1	281	6.1	349	7.2
Marine Construction .....	37	1.0	70	1.7	59	1.3	68	1.4
Other Engineering Construction ....	40	1.1	45	1.1	43	0.9	39	0.8

1. Actual 1951-52, preliminary actual 1953, intentions, 1954.

#### Employment, Salaries and Wages Paid and Cost of Materials Used

Average employment in the construction industry is expected to exceed a half-million in 1954 for the first time. The average number of employees is estimated at 508,172 as compared with 493,778 in 1953. Total salaries and wages are expected to approximate \$1,664,770,000 accounting for slightly more than one-third of the total value of construction and providing an estimated average income of \$3,276 per employee. Contractors are expected to engage an average of 317,030 employees who will earn an estimated \$1,110,190,000 or an average income of \$3,502 per person.

Construction employment during 1954 is expected to show an increase over 1953 in all provinces except Manitoba, where the decline is relatively small, and British Columbia, where a marked decline reflects the completion of certain large projects.

The cost of materials used in construction during 1952, 1953 and 1954, although showing an increase in value terms, continues to account for about 53 per cent of total construction.

TABLE 4. Value of Construction Work Performed By Type of Structure, Total 1951-1954<sup>1</sup>  
(Thousands of dollars)

Type of Structure	1951	1952	1953	1954
<b>Total Value of Construction</b>	<b>3,661,152</b>	<b>4,198,621</b>	<b>4,595,193</b>	<b>4,810,080</b>
<b>Total Building Construction</b>	<b>2,310,663</b>	<b>2,410,902</b>	<b>2,731,965</b>	<b>2,914,036</b>
<b>Residential</b>	<b>1,042,000</b>	<b>1,029,000</b>	<b>1,298,700</b>	<b>1,347,400</b>
1 Dwellings, single, double, duplexes and apartments	1,042,000	1,029,000	1,298,700	1,347,400
<b>Industrial</b>	<b>483,273</b>	<b>508,582</b>	<b>496,918</b>	<b>471,792</b>
2 Factories, plants, workshops	336,713	361,694	312,814	283,370
3 Warehouses, storehouses, refrigerated storage, etc.	81,517	71,924	104,731	97,450
4 Grain Elevators	8,263	14,805	12,360	9,954
5 Mine and mine mill buildings	29,090	24,648	27,588	42,032
6 Railway stations, works offices, roadway buildings	17,151	17,808	19,592	19,490
7 Railway shops, engine houses, water and fuel stations	10,539	17,703	19,833	19,496
<b>Commercial</b>	<b>400,153</b>	<b>453,582</b>	<b>513,274</b>	<b>575,351</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins	40,575	33,920	34,685	22,667
9 Office buildings	105,246	82,660	92,863	128,365
10 Stores, retail and wholesale, canteens, commissaries	85,537	66,083	97,528	127,429
11 Garages and service stations	21,676	35,841	41,547	48,806
12 Theatres, arenas, amusement and recreational buildings	14,535	19,064	23,741	19,897
13 Farm buildings (excluding dwellings)	106,073	130,036	135,802	136,436
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges	20,033	60,288	61,858	87,616
15 Aeroplane hangars	4,602	23,366	21,089	17,882
16 Passenger terminals, bus, boat or air	—	676	1,385	1,512
17 Laundries and dry cleaning establishments	1,876	1,648	2,776	4,741
<b>Institutional</b>	<b>291,071</b>	<b>314,372</b>	<b>335,710</b>	<b>421,605</b>
18 Schools and other educational buildings	122,267	152,201	150,464	172,144
19 Churches and other religious buildings	35,305	31,225	31,962	35,702
20 Hospitals, sanatoria, clinics, first-aid stations, etc.	80,456	93,539	119,014	177,811
21 Other institutional buildings	53,043	37,407	34,270	35,948
<b>Other Building Construction</b>	<b>94,166</b>	<b>105,366</b>	<b>87,363</b>	<b>97,888</b>
22 Armouries, barracks, drill halls, etc.	59,616	85,001	71,923	74,024
23 Bunkhouses, dormitories, cookeries, residence buildings	29,358	19,437	12,805	22,371
24 Other building construction	5,192	928	2,635	1,493
<b>Total Engineering Construction</b>	<b>1,350,489</b>	<b>1,787,719</b>	<b>1,863,228</b>	<b>1,916,044</b>
<b>Road, Highway, Bridge and Aerodrome Construction</b>	<b>441,513</b>	<b>573,890</b>	<b>571,676</b>	<b>563,723</b>
25 Hard surfaced or paved streets, highways, parking lots, etc.	159,078	197,271	215,635	213,919
26 Gravel or stone streets, highways, roads, parking lots, etc.	83,745	114,988	104,999	109,777
27 Dirt, clay or other streets, roads, parking lots, etc.	38,609	34,823	31,684	33,829
28 Grading, scraping, oiling, filling	35,978	97,723	108,310	94,152
29 Sidewalks, paths	15,175	19,056	17,209	19,749

1. Actual 1951-52, Preliminary Actual 1953, Intentions 1954.

TABLE 4. Value of Construction Work Performed By Type of Structure, Total 1951-1954<sup>1</sup> — Concluded  
(Thousands of dollars)

Type of Structure	1951	1952	1953	1954
<b>Road, Highway, Bridge and Aerodrome Construction—Concluded</b>				
30 Bridges, trestles, culverts, overpasses, etc.	60,587	61,332	57,443	60,031
31 Tunnels and subways	18,299	20,604	13,970	9,280
32 Highway and roadside maintenance, guard rails	12,954	4,037	3,913	4,256
33 Aerodromes, landing fields, runways, tarmac	17,088	24,056	18,513	18,730
<b>Waterworks and Sewage Systems</b>	<b>86,473</b>	<b>135,713</b>	<b>119,303</b>	<b>139,286</b>
34 Tile drains, drainage ditches, storm sewers	10,152	19,291	16,942	19,102
35 Waterworks systems and connections	32,728	55,321	46,961	60,142
36 Sewage systems and connections	41,281	49,990	46,058	52,381
37 Pumping stations, water	NA	6,827	7,509	5,447
38 Water storage tanks	2,312	4,284	1,833	2,214
<b>Dams and Irrigation</b>	<b>29,903</b>	<b>66,220</b>	<b>60,882</b>	<b>34,728</b>
39 Dams and reservoirs	18,744	48,766	51,524	24,375
40 Irrigation and land reclamation projects	11,159	17,454	9,358	10,353
<b>Electric Power Construction</b>	<b>347,966</b>	<b>385,679</b>	<b>414,297</b>	<b>414,881</b>
41 Central electric stations, power plants, distribution lines	343,644	383,684	412,253	409,667
42 Street lighting	4,322	1,995	2,044	5,214
<b>Railway, Telephone and Telegraph</b>	<b>275,546</b>	<b>296,083</b>	<b>313,794</b>	<b>307,805</b>
43 Railway track laying and surfacing	86,786	89,214	100,327	82,958
44 Roadway maintenance, track	96,619	94,997	97,133	96,792
45 Signals and interlockers	8,577	9,725	10,785	10,441
46 Telegraph and telephone lines, underground and marine cables	69,759	85,250	99,271	111,732
47 Fences, snowsheds, signs	12,715	15,541	5,953	5,726
48 Road or highway surfacing and maintenance by railway companies	1,090	1,356	325	156
<b>Gas and Oil Facilities</b>	<b>92,400</b>	<b>214,967</b>	<b>281,263</b>	<b>349,045</b>
49 Gas mains and services	NA	—	10,916	8,786
50 Pumping stations oil	6,405	10,953	9,486	12,046
51 Pumping stations, gas		284	497	330
52 Oil storage tanks	7,408	14,453	22,931	18,651
53 Gas storage tanks		4,710	4,714	3,699
54 Natural gas plants	—	866	1,786	8,943
55 Oil pipe lines	4,028	66,621	61,972	48,108
56 Gas pipe lines	9,386	8,485	26,586	52,397
57 Oil wells		66,801	80,158	117,269
58 Gas wells	55,568	7,177	8,172	8,093
59 Oil refineries	9,605	34,617	54,045	70,723
<b>Marine Construction</b>	<b>36,761</b>	<b>70,111</b>	<b>58,974</b>	<b>67,558</b>
60 Docks, wharves, piers, breakwaters	23,686	38,731	35,874	36,600
61 Retaining walls, embankments, riprapping	2,238	3,309	2,468	2,261
62 Canals and waterways	2,683	9,170	4,854	6,455
63 Dredging and pile driving	5,746	12,750	8,386	15,895
64 Dyke construction	1,431	2,518	2,661	2,964
65 Logging booms	NA	1,993	1,718	1,257
66 Other marine construction	977	1,640	3,013	2,126
<b>Other Engineering Construction</b>	<b>39,927</b>	<b>45,056</b>	<b>43,039</b>	<b>39,018</b>
67 Incinerator construction	NA	2,563	2,669	2,869
68 Park systems, landscaping, sodding, etc.	13,670	8,911	8,924	9,474
69 Structural steel erection	NA	1,904	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities	NA	1,789	1,676	1,673
71 Mineshafts and other below surface workings	14,068	15,517	20,472	17,693
72 Other engineering construction	12,189	14,372	9,298	7,309

1. Actual 1951-52, Preliminary Actual 1953, Intentions 1954.

TABLE 5. Average Numbers Employed, Salaries and Wages Paid and Cost of Materials Used 1951-1954<sup>1</sup> By Provinces

Province	Average No. of employees	Salaries and wages paid	Cost of materials used	Value of work performed
	No.	\$(000)	\$(000)	\$(000)
<b>Canada:</b>				
1951 .....	467,524	1,229,922	1,922,878	3,661,152
1952 .....	477,953	1,453,894	2,221,918	4,198,621
1953 .....	493,778	1,593,343	2,431,285	4,596,193
1954 .....	508,178	1,664,770	2,565,833	4,830,080
<b>Newfoundland:</b>				
1951 .....	8,428	19,316	26,152	49,947
1952 .....	9,771	25,154	37,932	74,370
1953 .....	8,691	23,036	35,336	68,277
1954 .....	8,786	23,599	36,503	70,252
<b>Prince Edward Island:</b>				
1951 .....	2,383	5,162	7,185	14,313
1952 .....	1,962	4,272	6,352	12,747
1953 .....	1,902	4,342	6,496	12,950
1954 .....	2,079	4,836	7,273	14,528
<b>Nova Scotia:</b>				
1951 .....	17,905	39,194	53,237	102,331
1952 .....	17,870	43,617	64,754	119,696
1953 .....	19,559	50,328	74,169	137,672
1954 .....	21,042	55,627	83,744	154,799
<b>New Brunswick:</b>				
1951 .....	15,136	34,435	50,749	93,200
1952 .....	13,872	32,173	48,021	88,582
1953 .....	14,169	34,901	51,998	95,755
1954 .....	15,456	38,899	58,591	107,750
<b>Quebec:</b>				
1951 .....	129,163	307,279	473,612	898,372
1952 .....	134,427	388,492	542,192	1,052,287
1953 .....	129,148	397,680	555,913	1,077,965
1954 .....	138,330	436,533	612,284	1,185,868
<b>Ontario:</b>				
1951 .....	158,552	446,164	700,794	1,349,407
1952 .....	157,666	491,324	778,800	1,458,283
1953 .....	168,894	558,579	872,034	1,640,786
1954 .....	171,242	579,662	911,405	1,710,601
<b>Manitoba:</b>				
1951 .....	24,600	62,534	100,648	182,526
1952 .....	25,740	71,270	102,194	198,690
1953 .....	26,641	78,196	112,771	218,307
1954 .....	25,948	78,410	114,342	220,637
<b>Saskatchewan:</b>				
1951 .....	19,666	49,460	84,113	153,762
1952 .....	22,233	65,259	112,083	200,761
1953 .....	23,203	72,345	124,082	221,409
1954 .....	24,379	78,610	137,799	245,767

TABLE 5. Average Numbers Employed, Salaries and Wages Paid and Cost of Materials Used 1951-1954<sup>1</sup>  
By Provinces — Concluded

Province	Average No. of employees	Salaries and wages paid	Cost of materials used	Value of work performed
	No.	\$(000)	\$(000)	\$(000)
Alberta:				
1951 .....	46,424	122,746	199,068	379,256
1952 .....	44,660	141,164	283,610	479,232
1953 .....	50,367	163,734	329,255	558,253
1954 .....	54,946	180,217	363,982	617,249
British Columbia:				
1951 .....	45,267	143,632	227,32	438,038
1952 .....	49,752	191,169	245,380	513,973
1953 .....	51,204	210,202	268,631	563,819
1954 .....	45,970	188,377	239,910	502,629

1. Actual 1951-52, Preliminary Actual 1953, Intentions 1954.

TABLE 6. Average Numbers Employed, Salaries and Wages Paid and Cost of Materials Used 1951-1954<sup>1</sup>  
By Contractors and Others

Type	Average No. of employees	Salaries and wages paid	Cost of materials used	Value of work performed
	No.	\$(000)	\$(000)	\$(000)
Total:				
1951 .....	467,524	1,229,922	1,922,878	3,661,152
1952 .....	477,953	1,453,894	2,221,918	4,198,621
1953 .....	493,778	1,593,343	2,431,285	4,595,193
1954 .....	508,178	1,664,770	2,565,833	4,830,080
Contractors:				
1951 .....	286,170	778,471	1,284,492	2,490,327
1952 .....	294,908	965,498	1,610,850	3,015,596
1953 .....	302,200	1,047,922	1,756,864	3,283,376
1954 .....	317,030	1,110,190	1,875,177	3,489,640
Utilities:				
1951 .....	82,364	215,135	274,987	539,284
1952 .....	77,842	214,597	249,136	499,797
1953 .....	84,091	248,343	284,133	573,603
1954 .....	83,805	253,202	290,096	586,330
Governments:				
1951 .....	67,932	145,617	167,402	327,922
1952 .....	55,772	136,172	152,932	305,954
1953 .....	53,055	139,332	153,619	307,434
1954 .....	54,907	147,484	164,591	328,055
Others:				
1951 .....	31,058	90,699	195,997	303,619
1952 .....	49,431	135,627	209,000	377,274
1953 .....	54,432	157,746	236,669	430,780
1954 .....	52,436	153,894	235,969	426,055

1. Actual 1951-52, Preliminary Actual 1953, Intentions 1954.

VALUE OF CONSTRUCTION WORK PERFORMED — CANADA 1952-1954<sup>1</sup>

TABLE 7. By Type of Structure New and Repair  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction</b>	<b>3,282,340</b>	<b>916,281</b>	<b>4,198,621</b>	<b>3,646,175</b>	<b>949,018</b>	<b>4,595,193</b>	<b>3,865,904</b>	<b>964,176</b>	<b>4,830,080</b>
<b>Total Building Construction</b>	<b>1,919,034</b>	<b>491,868</b>	<b>2,410,902</b>	<b>2,229,662</b>	<b>502,303</b>	<b>2,731,965</b>	<b>2,403,030</b>	<b>511,006</b>	<b>2,914,036</b>
<b>Residential</b>	<b>826,000</b>	<b>203,000</b>	<b>1,029,000</b>	<b>1,086,000</b>	<b>212,700</b>	<b>1,298,700</b>	<b>1,122,100</b>	<b>225,300</b>	<b>1,347,400</b>
1 Dwellings, single, double, duplexes and apartments	826,000	203,000	1,029,000	1,086,000	212,700	1,298,700	1,122,100	225,300	1,347,400
<b>Industrial</b>	<b>388,828</b>	<b>119,754</b>	<b>508,582</b>	<b>380,296</b>	<b>116,622</b>	<b>496,918</b>	<b>362,165</b>	<b>109,627</b>	<b>471,792</b>
2 Factories, plants, workshops	284,809	76,885	361,694	238,853	73,961	312,814	214,146	69,224	283,370
3 Warehouses, storehouses, refrigerated storage, etc.	59,673	12,251	71,924	94,175	10,556	104,731	87,806	9,644	97,450
4 Grain elevators	10,006	4,799	14,805	8,205	4,155	12,360	6,145	3,809	9,954
5 Mine and mine mill buildings	30,850	3,798	24,648	23,790	3,798	27,588	37,872	4,160	42,032
6 Railway stations, works offices, roadway buildings	6,067	11,741	17,808	6,768	12,824	19,592	7,333	12,157	19,490
7 Railway shops, engine houses, water and fuel stations	7,423	10,280	17,703	8,505	11,328	19,833	8,863	10,633	19,496
<b>Commercial</b>	<b>337,444</b>	<b>116,138</b>	<b>453,582</b>	<b>393,750</b>	<b>119,524</b>	<b>513,274</b>	<b>453,873</b>	<b>121,478</b>	<b>575,351</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins	24,025	9,895	33,920	24,418	10,267	34,685	13,620	9,047	22,667
9 Office buildings	63,594	19,066	82,660	73,416	19,447	92,863	109,616	18,749	128,365
10 Stores, retail and wholesale, canteens, commissaries	51,398	14,685	66,083	83,520	14,008	97,528	112,104	15,325	127,429
11 Garages and service stations	26,267	9,574	35,841	32,387	9,160	41,547	39,254	9,552	48,806
12 Theatres, arenas, amusement and recreational buildings	17,623	1,441	19,064	22,249	1,492	23,741	18,518	1,379	19,897
13 Farm buildings (excluding dwellings)	72,204	57,832	130,036	75,127	60,675	135,802	73,179	63,257	136,436
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges	59,138	1,150	60,288	60,106	1,752	61,858	65,776	1,840	67,616
15 Aeroplane hangars	22,013	1,353	23,366	20,050	1,039	21,089	16,919	963	17,882
16 Passenger terminals, bus, boat or air	446	230	676	800	585	1,385	1,035	477	1,512
17 Laundries and dry cleaning establishments	736	912	1,648	1,677	1,099	2,776	3,852	889	4,741
<b>Institutional</b>	<b>273,431</b>	<b>40,941</b>	<b>314,372</b>	<b>292,664</b>	<b>43,046</b>	<b>335,710</b>	<b>375,821</b>	<b>45,784</b>	<b>421,605</b>
18 Schools and other educational buildings	135,268	16,933	152,201	132,503	17,961	150,464	153,015	19,129	172,144
19 Churches and other religious buildings	25,835	5,390	31,225	25,729	6,233	31,962	29,289	6,413	35,702
20 Hospitals, sanatoria, clinics, first-aid stations, etc.	81,013	12,526	93,539	106,276	12,738	119,014	163,993	13,818	177,811
21 Other institutional buildings	31,315	6,092	37,407	28,156	6,114	34,270	29,524	6,424	35,948
<b>Other Building Construction</b>	<b>93,331</b>	<b>12,035</b>	<b>105,366</b>	<b>76,952</b>	<b>10,411</b>	<b>87,363</b>	<b>89,071</b>	<b>8,817</b>	<b>97,888</b>
22 Armouries, barracks, drill halls, etc.	79,465	5,536	85,001	65,808	6,115	71,923	68,450	5,574	74,024
23 Bunkhouses, dormitories, cookeries, residence buildings	13,074	6,363	19,437	8,800	4,005	12,805	19,510	2,861	22,371
24 Other building construction	792	136	928	2,344	291	2,635	1,111	382	1,493
<b>Total Engineering Construction</b>	<b>1,363,306</b>	<b>424,413</b>	<b>1,787,719</b>	<b>1,416,513</b>	<b>446,715</b>	<b>1,863,228</b>	<b>1,462,874</b>	<b>453,170</b>	<b>1,916,044</b>
<b>Road, Highway, Bridge and Aerodrome Construction</b>	<b>431,907</b>	<b>141,983</b>	<b>573,890</b>	<b>423,494</b>	<b>148,182</b>	<b>571,676</b>	<b>409,655</b>	<b>154,068</b>	<b>563,723</b>
25 Hard surfaced or paved streets, highways, parking lots, etc.	144,100	53,171	197,271	160,843	54,792	215,635	157,084	56,835	213,919
26 Gravel or stone streets, highways, roads, parking lots, etc.	87,300	27,688	114,988	75,216	29,783	104,999	79,683	30,094	109,777
27 Dirt, clay or other streets, roads, parking lots, etc.	24,419	10,404	34,823	22,548	9,136	31,684	24,205	9,624	33,829
28 Grading, scraping, oiling, filling	73,011	24,712	97,723	81,465	26,845	108,310	64,436	29,716	94,152
29 Sidewalks, paths	16,047	3,009	19,056	14,388	2,821	17,299	16,894	2,855	19,749
30 Bridges, trestles, culverts, overpasses, etc.	42,243	19,089	61,332	36,310	21,133	57,443	38,866	21,165	60,031
31 Tunnels and subways	20,106	498	20,604	13,541	429	13,970	8,871	409	9,280
32 Highway and roadside maintenance, guardrails	1,276	2,761	4,037	1,153	2,760	3,913	1,337	2,919	4,256
33 Aerodromes, landing fields, runways, tarmac	23,405	651	24,056	18,030	483	18,513	18,279	451	18,730

1. Actual 1952, Preliminary Actual 1953, Intentions 1954.

TABLE 7. By Type of Structure, New and Repair — Concluded  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	<b>115,966</b>	<b>19,747</b>	<b>135,713</b>	<b>99,042</b>	<b>20,261</b>	<b>119,303</b>	<b>113,963</b>	<b>25,323</b>	<b>139,286</b>
34 Tile drains, drainage ditches, storm sewers .....	16,306	2,985	19,291	13,929	3,013	16,942	16,026	3,076	19,102
35 Waterworks systems and connections .....	48,483	6,838	55,321	37,210	9,751	46,961	45,101	15,041	60,142
36 Sewage systems and connections .....	43,848	6,142	49,990	40,907	5,151	46,058	47,091	5,290	52,381
37 Pumping stations, water .....	5,207	1,620	6,827	5,967	1,542	7,509	4,111	1,336	5,447
38 Water storage tanks .....	2,122	2,162	4,284	1,029	804	1,833	1,634	580	2,214
<b>Dams and Irrigation</b> .....	<b>61,388</b>	<b>4,832</b>	<b>66,220</b>	<b>55,296</b>	<b>5,586</b>	<b>60,882</b>	<b>29,371</b>	<b>5,357</b>	<b>34,728</b>
39 Dams and reservoirs .....	46,140	2,626	48,766	46,827	4,697	51,524	19,871	4,504	24,375
40 Irrigation and land reclamation projects .....	15,248	2,206	17,454	8,469	889	9,358	9,500	853	10,353
<b>Electric Power Construction</b> .....	<b>357,380</b>	<b>28,299</b>	<b>385,679</b>	<b>379,463</b>	<b>34,834</b>	<b>414,297</b>	<b>377,305</b>	<b>37,576</b>	<b>414,881</b>
41 Central electric stations, power plants, distribution lines .....	356,198	27,486	383,684	378,051	34,202	412,253	372,729	36,938	409,667
42 Street lighting .....	1,182	813	1,995	1,412	632	2,044	4,576	638	5,214
<b>Railway, Telephone and Telegraph</b> .....	<b>114,424</b>	<b>181,659</b>	<b>296,083</b>	<b>118,648</b>	<b>195,146</b>	<b>313,794</b>	<b>120,990</b>	<b>186,815</b>	<b>307,805</b>
43 Railway track laying and surfacing .....	28,776	60,438	89,214	28,981	71,346	100,327	15,102	67,856	82,958
44 Roadway maintenance, track .....	13,815	81,182	94,997	12,713	84,420	97,133	17,774	79,018	96,792
45 Signals and interlockers .....	5,519	4,206	9,725	6,189	4,596	10,785	6,185	4,256	10,441
46 Telegraph and telephone lines, underground and marine cables .....	60,043	25,207	85,250	68,909	30,362	99,271	80,289	31,443	111,732
47 Fences, snowsheds, signs .....	5,589	9,952	15,541	1,623	4,330	5,953	1,564	4,162	5,726
48 Road or highway surfacing and maintenance by railway companies .....	682	674	1,356	233	92	325	76	80	156
<b>Gas and Oil Facilities</b> .....	<b>199,063</b>	<b>15,904</b>	<b>214,967</b>	<b>262,992</b>	<b>18,271</b>	<b>281,263</b>	<b>327,094</b>	<b>21,951</b>	<b>349,045</b>
49 Gas mains and services .....	—	—	—	9,760	1,156	10,916	7,870	916	8,786
50 Pumping stations, oil .....	10,190	763	10,953	8,507	979	9,486	11,102	944	12,046
51 Pumping stations, gas .....	124	160	284	412	85	497	225	105	330
52 Oil storage tanks .....	13,136	1,317	14,453	20,833	2,098	22,931	16,764	1,887	18,651
53 Gas storage tanks .....	4,129	581	4,710	4,530	184	4,714	3,343	356	3,699
54 Natural gas plants .....	732	134	866	1,579	207	1,786	8,767	176	8,943
55 Oil pipe lines .....	66,040	581	66,621	60,514	1,458	61,972	44,377	3,731	48,108
56 Gas pipe lines .....	6,948	1,537	8,485	25,833	753	26,586	51,709	688	52,397
57 Oil wells .....	65,572	1,229	66,801	78,788	1,370	80,158	114,377	2,892	117,269
58 Gas wells .....	6,886	291	7,177	7,909	263	8,172	7,852	241	8,093
59 Oil refineries .....	25,306	9,311	34,617	44,327	9,718	54,045	60,708	10,015	70,723
<b>Marine Construction</b> .....	<b>51,386</b>	<b>18,725</b>	<b>70,111</b>	<b>42,535</b>	<b>16,439</b>	<b>58,974</b>	<b>52,798</b>	<b>14,760</b>	<b>67,558</b>
60 Docks, wharves, piers, breakwaters .....	29,938	8,793	38,731	28,313	7,561	35,874	29,289	7,311	36,600
61 Retaining walls, embankments, ripraping .....	2,473	836	3,309	1,836	632	2,468	1,589	.672	2,261
62 Canals and waterways .....	6,070	3,100	9,170	3,065	1,789	4,854	4,879	1,576	6,455
63 Dredging and pile driving .....	8,429	4,321	12,750	4,781	3,605	8,386	12,220	3,675	15,895
64 Dyke construction .....	2,234	284	2,518	2,287	374	2,661	2,606	358	2,964
65 Logging booms .....	956	1,037	1,993	379	1,339	1,718	856	401	1,257
66 Other marine construction .....	1,286	354	1,640	1,874	1,139	3,013	1,359	767	2,126
<b>Other Engineering Construction</b> .....	<b>31,792</b>	<b>13,264</b>	<b>45,056</b>	<b>35,043</b>	<b>7,996</b>	<b>43,039</b>	<b>31,698</b>	<b>7,320</b>	<b>39,018</b>
67 Incinerator construction .....	2,095	468	2,563	2,167	502	2,669	2,371	498	2,869
68 Park systems, landscaping, sodding, etc. ....	5,754	3,157	8,911	5,678	3,246	8,924	6,252	3,222	9,474
69 Structural steel erection .....	1,904	—	1,904	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	883	906	1,789	832	844	1,676	837	836	1,673
71 Mineshafts and other below surface workings .....	14,172	1,345	15,517	17,992	2,480	20,472	15,619	2,074	17,693
72 Other engineering construction .....	6,984	7,388	14,372	8,374	924	9,298	6,619	690	7,309

TABLE 8. Dollar and Percentage Change by Type of Structure

Type of Structure	Change 1952 to 1953		Change 1953 to 1954		Type of Structure	Change 1952 to 1953		Change 1953 to 1954		
	\$ Mill.	%	\$ Mill.	%		\$ Mill.	%	\$ Mill.	%	
<b>Total Value of Construction .....</b>	<b>396</b>	<b>9.4</b>	<b>235</b>	<b>5.1</b>	<b>Waterworks and Sewage Systems .....</b>	-	<b>17</b>	-12.5	<b>20</b>	<b>16.8</b>
<b>Total Building Construction .....</b>	<b>321</b>	<b>13.3</b>	<b>182</b>	<b>6.7</b>	34 Tile drains, drainage ditches, storm sewers .....	-	<b>2</b>	-	<b>2</b>	-
<b>Residential .....</b>	<b>270</b>	<b>26.2</b>	<b>48</b>	<b>3.7</b>	35 Waterworks systems and connections .....	-	<b>8</b>	-	<b>13</b>	-
1 Dwellings, single, double, duplexes and apartments .....	270	-	48	-	36 Sewage systems and connections ..	-	<b>4</b>	-	<b>6</b>	-
<b>Industrial .....</b>	<b>- 12</b>	<b>- 2.4</b>	<b>- 25</b>	<b>- 5.0</b>	37 Pumping stations, water .....	-	<b>2</b>	-	<b>0</b>	-
2 Factories, plants, workshops .....	- 49	-	- 30	-	38 Water storage tanks .....	-	-	-	-	-
3 Warehouses, storehouses, refrigerated storage, etc. ....	33	-	- 8	-	<b>Dams and Irrigation .....</b>	-	<b>5</b>	- 7.6	- 26	- 42.6
4 Grain elevators .....	- 3	-	- 2	-	39 Dams and reservoirs .....	-	<b>3</b>	-	- 28	-
5 Mine and mill buildings .....	3	-	14	-	40 Irrigation and land reclamation projects .....	-	<b>8</b>	-	<b>1</b>	-
6 Railway stations, works offices, roadway buildings .....	2	-	- 1	-	<b>Electric Power Construction .....</b>	<b>28</b>	<b>7.3</b>	<b>1</b>	<b>0.2</b>	
7 Railway shops, engine houses, water and fuel stations .....	2	-	- 1	-	41 Central electric stations, power plants, distribution lines .....	28	-	- 2	-	
<b>Commercial .....</b>	<b>59</b>	<b>13.0</b>	<b>62</b>	<b>12.1</b>	42 Street lighting .....	-	<b>0</b>	-	<b>3</b>	-
8 Hotels, clubs, restaurants, cafeterias, tourist cabins .....	1	-	12	-	<b>Railway, Telephone and Telegraph .....</b>	<b>18</b>	<b>6.1</b>	- 6	- 1.9	
9 Office buildings .....	10	-	35	-	43 Railway track laying and surfacing .....	11	-	- 17	-	
10 Stores, retail and wholesale, canteens, commissaries .....	32	-	29	-	44 Roadway maintenance, track .....	2	-	0	-	
11 Garages and service stations .....	6	-	7	-	45 Signals and interlockers .....	1	-	- 1	-	
12 Theatres, arenas, amusement and recreational buildings .....	5	-	4	-	46 Telegraph and telephone lines, underground and marine cables ..	14	-	13	-	
13 Farm buildings (excluding dwellings) .....	6	-	0	-	47 Fences, snowsheds, signs .....	- 10	-	0	-	
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	2	-	6	-	48 Road or highway surfacing and maintenance by railway companies ..	- 1	-	0	-	
15 Aeroplane hangars .....	- 2	-	- 3	-	<b>Gas and Oil Facilities .....</b>	<b>66</b>	<b>30.7</b>	<b>68</b>	<b>24.2</b>	
16 Passenger terminals, bus, boat or air	0	-	1	-	49 Gas mains and services .....	- 1	-	- 2	-	
17 Laundries and dry cleaning establishments .....	1	-	2	-	50 Pumping stations oil .....	- 2	-	3	-	
<b>Institutional .....</b>	<b>22</b>	<b>7.0</b>	<b>86</b>	<b>25.6</b>	51 Pumping stations, gas .....	- 0	-	0	-	
18 Schools and other educational buildings .....	- 2	-	22	-	52 Oil storage tanks .....	- 9	-	- 4	-	
19 Churches and other religious buildings .....	1	-	4	-	53 Gas storage tanks .....	- 0	-	- 1	-	
20 Hospitals, sanatoria, clinics, first-aid stations, etc. ....	25	-	59	-	54 Natural gas plants .....	- 1	-	7	-	
21 Other institutional buildings .....	- 3	-	2	-	55 Oil pipe lines .....	- 5	-	- 14	-	
<b>Other Building Construction .....</b>	<b>- 18</b>	<b>- 17.1</b>	<b>11</b>	<b>12.6</b>	56 Gas pipe lines .....	- 19	-	25	-	
22 Armouries, barracks, drill halls, etc. ....	- 13	-	2	-	57 Oil wells .....	- 13	-	37	-	
23 Bunkhouses, dormitories, cookeries, residence buildings .....	- 6	-	8	-	58 Gas wells .....	- 1	-	0	-	
24 Other building construction .....	- 2	-	- 2	-	59 Oil refineries .....	- 19	-	17	-	
<b>Total Engineering Construction .....</b>	<b>75</b>	<b>4.2</b>	<b>53</b>	<b>2.8</b>	<b>Marine Construction .....</b>	<b>- 11</b>	<b>- 15.7</b>	<b>9</b>	<b>15.3</b>	
<b>Road, Highway, Bridge and Aerodrome Construction .....</b>	<b>- 2</b>	<b>- 0.3</b>	<b>- 8</b>	<b>- 1.4</b>	60 Docks, wharves, piers, breakwaters .....	- 3	-	1	-	
25 Hard surfaced or paved streets, highways, parking lots, etc. ....	19	-	- 2	-	61 Retaining walls, embankments, rip-rapping .....	- 1	-	0	-	
26 Gravel or stone streets, highways, roads, parking lots, etc. ....	- 10	-	5	-	62 Canals and waterways .....	- 4	-	1	-	
27 Dirt, clay or other streets, roads, parking lots, etc. ....	- 3	-	2	-	63 Dredging and pile driving .....	- 5	-	8	-	
28 Grading, scraping, oiling, filling .....	10	-	14	-	64 Dyke construction .....	- 0	-	0	-	
29 Sidewalks, paths .....	- 2	-	3	-	65 Logging booms .....	- 0	-	- 1	-	
30 Bridges, trestles, culverts, overpasses, etc. ....	- 4	-	3	-	66 Other marine construction .....	- 1	-	- 1	-	
31 Tunnels and subways .....	- 7	-	- 5	-	<b>Other Engineering Construction .....</b>	- 2	- 4.4	- 4	- 9.3	
32 Highway and roadside maintenance, guard rails .....	0	-	0	-	67 Incinerator construction .....	- 0	-	0	-	
33 Aerodromes, landing fields, runways, tarmac .....	- 5	-	0	-	68 Park systems, landscaping, sodding, etc. ....	- 0	-	0	-	
					69 Structural steel erection .....	- 1	-	1	-	
					70 Swimming pools, tennis courts, outdoor recreation facilities .....	- 0	-	0	-	
					71 Mineshafts and other below surface workings .....	- 4	-	- 2	-	
					72 Other engineering construction .....	- 5	-	- 2	-	

1. No change is shown here since data was not collected for this type of structure separately. Inasmuch as the overall change for Gas and Oil Facilities was calculated without regard to this fact, the sum of the value changes shown for the items in this group does not agree with the total change shown for the group.

TABLE 9. By Principal Types of Construction for Industry or Sector  
(thousands of dollars)

Industry or Sector	1952			1953			1954		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
<b>Total</b> .....	<b>2,410,902</b>	<b>1,787,719</b>	<b>4,198,621</b>	<b>2,731,965</b>	<b>1,863,228</b>	<b>4,595,193</b>	<b>2,914,036</b>	<b>1,916,044</b>	<b>4,830,080</b>
Agriculture and Fishing .....	129,938	17,539	147,477	135,503	17,935	153,438	136,184	17,625	153,809
Forestry .....	12,982	26,016	38,998	9,713	25,404	35,117	8,317	22,652	30,969
Mining, Quarrying and Oil Wells ....	35,103	115,298	150,401	40,510	161,863	202,373	51,707	185,235	236,942
Construction .....	6,837	731	7,568	8,245	987	9,232	9,840	919	10,759
Manufacturing .....	350,538	88,402	438,940	304,665	93,269	397,934	270,953	103,385	374,338
Utilities .....	73,109	885,330	958,439	74,437	922,151	996,588	78,154	901,597	979,751
Trade-Wholesale and Retail .....	115,621	12,861	128,482	179,790	22,192	201,982	214,155	20,740	234,895
Finance, Insurance and Real Estate	42,834	210	43,044	66,257	1,895	68,152	97,710	2,991	100,701
Commercial Services .....	39,918	40	39,958	49,123	468	49,591	28,549	271	28,820
Housing .....	1,029,000	-	1,029,000	1,298,700	-	1,298,700	1,347,400	-	1,347,400
Institutional Services .....	269,484	7,991	277,475	295,834	7,209	303,043	393,904	8,668	402,572
Government Departments .....	305,538	633,301	938,839	269,188	609,855	879,043	277,163	651,961	929,124

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

	Change 1952 to 1953						Change 1953 to 1954					
	Building		Engineering		Total		Building		Engineering		Total	
	\$ mill.	%	\$ mill.	%	\$ mill.	%	\$ mill.	%	\$ mill.	%	\$ mill.	%
<b>Total</b> .....	<b>321</b>	<b>13.3</b>	<b>75</b>	<b>4.2</b>	<b>396</b>	<b>9.4</b>	<b>182</b>	<b>6.7</b>	<b>53</b>	<b>2.8</b>	<b>235</b>	<b>5.1</b>
Agriculture and Fishing .....	6	4.6	-	-	6	4.1	-	-	-	-	1	0.7
Forestry .....	- 3	- 23.1	- 1	- 3.8	- 4	- 10.3	- 2	- 20.0	- 3	- 8.0	- 4	- 11.4
Mining, Quarrying and Oil Wells ....	6	17.1	47	40.9	52	34.7	11	26.8	23	14.2	35	17.3
Construction .....	1	14.3	-	-	1	12.5	2	25.0	-	-	2	22.2
Manufacturing .....	- 46	- 13.1	5	5.7	- 41	- 9.3	- 34	- 11.1	10	10.8	- 24	- 6.0
Utilities .....	1	1.4	37	4.2	39	4.1	4	5.4	- 20	- 2.2	- 17	- 1.7
Trade-Wholesale and Retail .....	64	55.2	9	69.2	73	57.8	34	18.9	- 1	- 4.5	33	16.3
Finance, Insurance and Real Estate	23	53.5	2	*	25	58.1	32	48.5	1	50.0	33	48.5
Commercial Services .....	9	22.5	-	-	10	25.0	- 20	- 40.8	-	-	- 21	- 42.0
Housing .....	270	26.2	-	-	270	26.2	48	3.7	-	-	48	3.7
Institutional Services .....	27	10.0	- 1	- 12.5	26	9.4	98	33.1	2	28.6	100	33.0
Government Departments .....	- 37	- 12.1	- 23	- 3.6	- 60	- 6.4	8	3.0	42	6.9	50	5.7

\* Increase over 500%.

**VALUE OF CONSTRUCTION WORK PERFORMED BY TYPE OF STRUCTURE — INDUSTRY OR SECTOR 1952-1954<sup>1</sup>**

**TABLE 11. Primary Industries**

(Thousands of Dollars)

	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>	<b>246,682</b>	<b>97,762</b>	<b>344,444</b>	<b>299,832</b>	<b>100,328</b>	<b>400,160</b>	<b>331,943</b>	<b>100,536</b>	<b>432,479</b>
<b>Total Building Construction .....</b>	<b>113,675</b>	<b>71,185</b>	<b>184,860</b>	<b>121,999</b>	<b>71,972</b>	<b>193,971</b>	<b>132,596</b>	<b>73,452</b>	<b>206,048</b>
<b>Residential .....</b>	—	—	—	—	—	—	—	—	—
1 Dwellings, single, double, duplexes and apartments .....	—	—	—	—	—	—	—	—	—
<b>Industrial .....</b>	<b>31,420</b>	<b>7,887</b>	<b>39,307</b>	<b>36,551</b>	<b>7,669</b>	<b>44,220</b>	<b>44,870</b>	<b>7,676</b>	<b>52,546</b>
2 Factories, plants, workshops .....	4,609	1,597	6,206	7,044	1,529	8,573	4,561	1,382	5,943
3 Warehouses, storehouses, refrigerated storage, etc. ....	6,157	2,564	8,721	6,203	2,196	8,399	3,110	2,121	5,231
4 Grain elevators .....	—	—	—	—	75	75	—	—	—
5 Mine and mine mill buildings .....	20,449	3,564	24,013	23,249	3,795	27,044	37,155	4,155	41,310
6 Railway stations, work offices, roadway buildings .....	184	157	341	55	65	120	15	18	33
7 Railway shops, engine houses, water and fuel stations .....	21	5	26	—	9	9	29	—	29
<b>Commercial .....</b>	<b>74,932</b>	<b>58,220</b>	<b>133,152</b>	<b>79,210</b>	<b>61,107</b>	<b>140,317</b>	<b>80,914</b>	<b>63,533</b>	<b>144,447</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins .....	230	29	259	66	52	118	23	33	56
9 Office buildings .....	1,852	515	2,367	3,355	395	3,750	7,544	321	7,865
10 Stores, retail and wholesale, canteens, commissaries .....	392	160	552	537	159	696	376	74	450
11 Garages and service stations .....	779	246	1,025	566	88	654	237	72	309
12 Theatres, arenas, amusement and recreational buildings .....	309	13	322	229	14	243	117	8	125
13 Farm buildings (excluding dwellings) .....	71,329	57,254	128,583	74,421	60,356	134,777	72,554	63,012	135,566
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	23	—	23	27	40	67	52	10	62
15 Aeroplane hangars .....	9	3	12	—	—	—	11	—	11
16 Passenger terminals, bus, boat or air .....	—	—	—	—	—	—	3	—	3
17 Laundries and dry cleaning establishments .....	9	—	9	9	3	12	—	3	3
<b>Institutional .....</b>	<b>288</b>	<b>18</b>	<b>306</b>	<b>223</b>	<b>21</b>	<b>244</b>	<b>380</b>	<b>13</b>	<b>393</b>
18 Schools and other educational buildings .....	210	9	219	152	7	159	270	7	277
19 Churches and other religious buildings .....	—	—	—	—	—	—	21	—	21
20 Hospitals, sanatoria, clinics, first-aid stations, etc. ....	78	9	87	56	8	64	89	6	95
21 Other institutional buildings .....	—	—	—	15	6	21	—	—	—
<b>Other Building Construction .....</b>	<b>7,035</b>	<b>5,060</b>	<b>12,095</b>	<b>6,015</b>	<b>3,175</b>	<b>9,190</b>	<b>6,432</b>	<b>2,230</b>	<b>8,662</b>
22 Armouries, barracks, drill halls, etc. ....	—	—	—	—	—	—	—	—	—
23 Bunkhouses, dormitories, cookeries, residence buildings .....	7,004	5,051	12,055	5,885	3,089	8,974	6,321	2,150	8,471
24 Other building construction .....	31	9	40	130	86	216	111	80	191
<b>Total Engineering Construction .....</b>	<b>133,007</b>	<b>26,577</b>	<b>159,584</b>	<b>177,833</b>	<b>28,356</b>	<b>206,189</b>	<b>199,347</b>	<b>27,084</b>	<b>226,431</b>
<b>Road, Highway, Bridge and Aerodrome Construction .....</b>	<b>9,118</b>	<b>8,562</b>	<b>17,680</b>	<b>11,106</b>	<b>7,147</b>	<b>18,253</b>	<b>11,357</b>	<b>6,589</b>	<b>17,946</b>
25 Hard surfaced or paved streets, highways, parking lots, etc. ....	588	663	1,253	424	17	441	210	—	210
26 Gravel or stone streets, highways, roads, parking lots, etc. ....	6,030	4,021	10,051	6,028	5,023	11,051	5,887	4,484	10,371
27 Dirt, clay or other streets, roads parking lots, etc. ....	1,936	3,406	5,342	3,956	1,714	5,670	4,350	1,874	6,224
28 Grading, scraping, oiling, filling .....	139	68	207	150	93	243	144	81	225
29 Sidewalks, paths .....	21	16	37	22	25	47	—	—	—
30 Bridges, trestles, culverts, overpasses, etc. ....	250	104	354	438	216	654	699	97	796
31 Tunnels and subways .....	48	—	48	6	—	6	—	—	—
32 Highway and roadside maintenance, guard rails....	106	267	373	59	39	98	56	39	95
33 Aerodromes, landing fields, runways, tarmac .....	—	17	17	23	20	43	11	14	25

1. Actual 1952, Preliminary Actual 1953, Intentions 1954.

TABLE 11. Primary Industries - Concluded  
(Thousands of Dollars)

	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	<b>1,774</b>	<b>273</b>	<b>2,047</b>	<b>1,523</b>	<b>425</b>	<b>1,948</b>	<b>1,312</b>	<b>612</b>	<b>1,924</b>
34 Tile drains, drainage ditches, storm sewers .....	30	—	30	15	3	18	4	1	5
35 Waterworks systems and connections .....	891	168	1,059	312	290	602	487	490	977
36 Sewage systems and connections .....	457	51	508	736	84	820	516	108	624
37 Pumping stations, water .....	159	51	210	347	26	373	151	13	164
38 Water storage tanks .....	237	3	240	113	22	135	154	—	154
<b>Dams and Irrigation</b> .....	<b>8,193</b>	<b>3,045</b>	<b>11,238</b>	<b>6,793</b>	<b>3,264</b>	<b>10,057</b>	<b>7,560</b>	<b>3,168</b>	<b>10,728</b>
39 Dams and reservoirs .....	2,744	918	3,662	6,793	2,463	9,256	6,253	2,386	8,639
40 Irrigation and land reclamation projects .....	5,449	2,127	7,576	—	801	801	1,307	782	2,089
<b>Electric Power Construction</b> .....	<b>5,177</b>	<b>204</b>	<b>5,381</b>	<b>9,305</b>	<b>1,502</b>	<b>10,807</b>	<b>6,412</b>	<b>1,550</b>	<b>7,962</b>
41 Central electric stations, power plants, distribution lines .....	5,175	182	5,357	9,266	1,485	10,751	3,250	1,541	4,791
42 Street lighting .....	2	22	24	39	17	56	3,162	9	3,171
<b>Railway, Telephone and Telegraph</b> .....	<b>5,603</b>	<b>7,238</b>	<b>12,841</b>	<b>5,872</b>	<b>8,271</b>	<b>14,143</b>	<b>8,038</b>	<b>8,150</b>	<b>16,188</b>
43 Railway track laying and surfacing .....	1,682	157	1,839	1,639	1,850	3,489	3,214	1,690	4,904
44 Roadway maintenance, track .....	14	1,349	1,363	—	557	557	207	626	833
45 Signals and interlockers .....	8	—	8	10	—	10	—	—	—
46 Telegraph and telephone lines, underground and marine cables .....	189	206	395	4,154	5,863	10,017	4,586	5,834	10,420
47 Fences, snowsheds, signs .....	3,705	5,526	9,231	69	1	70	31	—	31
48 Road or highway surfacing and maintenance by railway companies .....	5	—	5	—	—	—	—	—	—
<b>Gas and Oil Facilities</b> .....	<b>79,785</b>	<b>2,615</b>	<b>82,400</b>	<b>115,390</b>	<b>2,360</b>	<b>117,750</b>	<b>133,567</b>	<b>3,374</b>	<b>136,941</b>
49 Gas mains and services .....	—	—	—	2,626	416	3,042	2,780	124	2,904
50 Pumping stations, oil .....	1,721	166	1,887	268	—	268	293	—	293
51 Pumping stations, gas .....	44	20	64	275	—	275	93	—	93
52 Oil storage tanks .....	414	39	453	1,936	36	1,972	2,724	17	2,741
53 Gas storage tanks .....	21	—	21	267	1	268	293	—	293
54 Natural gas plants .....	471	103	574	829	50	879	419	15	434
55 Oil pipe lines .....	106	—	106	1,066	4	1,070	1,513	3	1,516
56 Gas pipe lines .....	4,680	767	5,447	21,450	220	21,670	3,286	82	3,368
57 Oil wells .....	65,442	1,229	66,671	78,764	1,370	80,134	114,314	2,892	117,206
58 Gas wells .....	6,886	291	7,177	7,909	263	8,172	7,852	241	8,093
59 Oil refineries .....	—	—	—	—	—	—	—	—	—
<b>Marine Construction</b> .....	<b>9,159</b>	<b>2,982</b>	<b>12,141</b>	<b>5,569</b>	<b>2,873</b>	<b>8,442</b>	<b>13,529</b>	<b>1,665</b>	<b>15,194</b>
60 Docks, wharves, piers, breakwaters .....	5,662	714	6,376	2,427	374	2,801	2,708	575	3,283
61 Retaining walls, embankments, ripraping .....	21	60	81	13	41	54	—	45	45
62 Canals and waterways .....	1,130	1,291	2,421	45	235	280	—	111	111
63 Dredging and pile driving .....	1,658	1	1,659	2,591	162	2,753	9,861	178	10,039
64 Dyke construction .....	—	—	—	—	1	1	—	—	—
65 Logging booms .....	688	916	1,604	244	1,232	1,476	810	296	1,106
66 Other marine construction .....	—	—	—	249	828	1,077	150	460	610
<b>Other Engineering Construction</b> .....	<b>14,198</b>	<b>1,658</b>	<b>15,856</b>	<b>22,275</b>	<b>2,514</b>	<b>24,789</b>	<b>17,572</b>	<b>1,976</b>	<b>19,548</b>
67 Incinerator construction .....	—	—	—	—	2	2	—	1	1
68 Park systems, landscaping, sodding, etc. ....	9	8	17	43	38	81	5	11	16
69 Structural steel erection .....	162	—	162	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	83	3	86	16	1	17	—	—	—
71 Mineshafts and other below surface workings .....	13,939	1,242	15,181	17,221	2,387	19,608	14,415	1,932	16,347
72 Other engineering construction .....	5	405	410	4,995	86	5,081	3,152	32	3,184

TABLE 12. Manufacturing  
(Thousands of dollars)

Type of Structure	1952			1953			1953		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>	<b>343,566</b>	<b>95,374</b>	<b>438,940</b>	<b>306,998</b>	<b>90,936</b>	<b>397,934</b>	<b>289,442</b>	<b>84,896</b>	<b>374,338</b>
<b>Total Building Construction .....</b>	<b>270,818</b>	<b>79,720</b>	<b>350,538</b>	<b>229,131</b>	<b>75,534</b>	<b>304,665</b>	<b>200,772</b>	<b>70,181</b>	<b>270,953</b>
<b>Residential .....</b>	—	—	—	—	—	—	—	—	—
Dwellings, single, double, duplexes and apartments.....	—	—	—	—	—	—	—	—	—
<b>Industrial .....</b>	<b>260,210</b>	<b>77,331</b>	<b>337,541</b>	<b>216,812</b>	<b>74,111</b>	<b>290,923</b>	<b>193,800</b>	<b>68,978</b>	<b>262,778</b>
2 Factories, plants, workshops.....	244,628	70,870	315,498	199,906	68,278	268,184	178,530	64,278	242,808
3 Warehouses, storehouses, refrigerated storage, etc.....	12,553	1,595	14,148	12,514	1,711	14,225	11,503	1,399	12,902
4 Grain elevators.....	635	82	717	450	82	532	268	63	331
5 Mine and mine mill buildings.....	345	232	577	471	3	474	643	5	648
6 Railway stations, works offices, roadway buildings .....	140	27	167	131	40	171	—	57	57
7 Railway shops, engine houses, water and fuel stations .....	1,909	4,525	6,434	3,340	3,997	7,337	2,856	3,176	6,032
<b>Commercial .....</b>	<b>8,587</b>	<b>1,601</b>	<b>10,188</b>	<b>11,938</b>	<b>1,029</b>	<b>12,967</b>	<b>6,484</b>	<b>869</b>	<b>7,353</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins.....	1,039	91	1,130	69	81	150	23	44	67
9 Office buildings.....	6,024	1,072	7,096	10,354	664	11,018	5,354	651	6,005
10 Stores, retail and wholesale, canteens, commissaries .....	188	141	329	425	85	510	616	52	668
11 Garages and service stations.....	842	176	1,018	753	34	787	206	33	239
12 Theatres, arenas, amusement and recreational buildings .....	6	77	83	209	6	215	243	4	247
13 Farm buildings (excluding dwellings).....	44	32	76	115	129	244	20	61	81
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	—	—	—	13	8	21	22	7	29
15 Aeroplane hangars .....	444	4	448	—	17	17	—	10	10
16 Passenger terminals, bus, boat or air .....	—	1	1	—	—	—	—	—	—
17 Laundries and dry cleaning establishments .....	—	7	7	—	5	5	—	7	7
<b>Institutional .....</b>	<b>105</b>	<b>159</b>	<b>264</b>	<b>127</b>	<b>54</b>	<b>181</b>	<b>283</b>	<b>31</b>	<b>314</b>
18 Schools and other educational buildings .....	43	93	136	65	11	76	261	4	265
19 Churches and other religious buildings .....	—	2	2	1	—	1	—	—	—
20 Hospitals, sanatoria, clinics, first-aid stations, etc.....	62	43	105	61	41	102	22	27	49
21 Other institutional buildings .....	—	21	21	—	2	2	—	—	—
<b>Other Building Construction .....</b>	<b>1,916</b>	<b>629</b>	<b>2,545</b>	<b>234</b>	<b>340</b>	<b>594</b>	<b>205</b>	<b>303</b>	<b>508</b>
22 Armouries, barracks, drill halls, etc.....	—	—	—	—	—	—	—	—	—
23 Bunkhouses, dormitories, cookeries, residence buildings .....	1,829	628	2,457	254	340	594	205	302	507
24 Other building construction .....	87	1	88	—	—	—	—	1	1
<b>Total Engineering Construction .....</b>	<b>72,748</b>	<b>15,654</b>	<b>88,402</b>	<b>77,867</b>	<b>15,402</b>	<b>93,269</b>	<b>88,670</b>	<b>14,715</b>	<b>103,385</b>
<b>Road, Highway, Bridge and Aerodrome Construction .....</b>	<b>4,910</b>	<b>1,220</b>	<b>6,130</b>	<b>4,304</b>	<b>1,193</b>	<b>5,497</b>	<b>2,560</b>	<b>894</b>	<b>3,454</b>
25 Hard surfaced or paved streets, highways, parking lots, etc.....	2,066	398	2,464	2,150	344	2,494	1,894	271	2,165
26 Gravel or stone streets, highways, roads, parking lots, etc.....	688	508	1,196	1,108	457	1,565	331	332	663
27 Dirt, clay or other streets, roads, parking lots, etc.....	561	220	781	105	157	262	91	156	247
28 Grading, scraping, oiling, filling.....	892	26	918	682	106	788	90	58	148
29 Sidewalks, paths .....	13	39	52	80	1	81	26	1	27
30 Bridges, trestles, culverts, overpasses, etc.	284	24	308	57	122	179	109	68	177
31 Tunnels and subways .....	401	—	401	104	1	105	14	—	14
32 Highway and roadside maintenance, guard rails .....	5	5	10	15	5	20	5	8	13
33 Aerodromes, landing fields, runways, tarmac .....	—	—	—	3	—	3	—	—	—

**TABLE 12. Manufacturing -- Concluded**  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	<b>11,392</b>	<b>486</b>	<b>11,878</b>	<b>6,222</b>	<b>586</b>	<b>6,808</b>	<b>2,322</b>	<b>346</b>	<b>2,668</b>
34 Tile drains, drainage ditches, storm sewers	616	53	669	347	21	368	573	40	613
35 Waterworks systems and connections	6,758	139	6,897	2,663	186	2,849	906	166	1,072
36 Sewage systems and connections	2,553	222	2,775	1,008	136	1,144	347	94	441
37 Pumping stations, water	1,301	61	1,362	1,803	42	1,845	399	41	440
38 Water storage tanks	164	11	175	401	201	602	97	5	102
<b>Dams and Irrigation</b> .....	<b>1,180</b>	<b>369</b>	<b>1,549</b>	<b>778</b>	<b>124</b>	<b>902</b>	<b>98</b>	<b>84</b>	<b>179</b>
39 Dams and reservoirs	1,180	369	1,549	775	108	883	94	84	178
40 Irrigation and land reclamation projects	-	-	-	3	16	19	1	-	1
<b>Electric Power Construction</b> .....	<b>8,879</b>	<b>901</b>	<b>9,780</b>	<b>4,018</b>	<b>284</b>	<b>4,302</b>	<b>2,085</b>	<b>325</b>	<b>2,410</b>
41 Central electric stations, power plants, distribution lines	8,861	874	9,735	3,881	277	4,158	2,057	324	2,381
42 Street lighting	18	27	45	137	7	144	28	1	29
<b>Railway, Telephone and Telegraph</b> .....	<b>1,400</b>	<b>494</b>	<b>1,894</b>	<b>1,133</b>	<b>573</b>	<b>1,706</b>	<b>695</b>	<b>432</b>	<b>1,127</b>
43 Railway track laying and surfacing	1,131	93	1,224	851	229	1,080	395	187	582
44 Roadway maintenance, track	12	326	338	-	275	275	-	195	195
45 Signals and interlockers	-	-	-	6	-	6	-	-	-
46 Telegraph and telephone lines, underground and marine cables	4	5	9	6	6	12	15	3	18
47 Fences, snowsheds, signs	253	70	323	270	63	333	285	47	332
48 Road or Highway surfacing and maintenance by railway companies	-	-	-	-	-	-	-	-	-
<b>Gas and Oil Facilities</b> .....	<b>31,354</b>	<b>10,514</b>	<b>41,868</b>	<b>54,134</b>	<b>11,112</b>	<b>65,246</b>	<b>75,011</b>	<b>11,346</b>	<b>86,357</b>
49 Gas mains and services	-	-	-	920	21	941	360	26	386
50 Pumping stations, oil	46	1	47	122	11	133	28	1	29
51 Pumping stations, gas	72	140	212	131	70	201	129	89	218
52 Oil storage tanks	4,799	557	5,356	5,476	809	6,285	4,318	523	4,841
53 Gas storage tanks	404	26	430	590	18	608	268	186	454
54 Natural gas plants	-	-	-	643	149	792	8,318	149	8,467
55 Oil pipe lines	328	26	354	1,788	76	1,864	316	52	368
56 Gas pipe lines	269	453	722	149	240	389	526	306	832
57 Oil wells	130	-	130	24	-	24	40	-	40
58 Gas wells	-	-	-	-	-	-	-	-	-
59 Oil refineries	25,306	9,311	34,617	44,291	9,718	54,009	60,708	10,014	70,722
<b>Marine Construction</b> .....	<b>11,430</b>	<b>1,480</b>	<b>12,910</b>	<b>6,139</b>	<b>1,397</b>	<b>7,536</b>	<b>4,715</b>	<b>1,186</b>	<b>5,901</b>
60 Docks, wharves, piers, breakwaters	6,166	1,252	7,418	5,734	1,069	6,803	4,567	889	5,456
61 Retaining walls, embankments, ripraping	805	36	841	248	12	260	-	50	50
62 Canals and waterways	-	-	-	-	2	2	-	7	7
63 Dredging and pile driving	4,267	135	4,402	17	154	171	-	95	95
64 Dyke construction	1	5	6	-	23	23	65	6	71
65 Logging booms	191	52	243	69	102	171	14	99	113
66 Other marine construction	-	-	-	71	35	106	69	40	109
<b>Other Engineering Construction</b> .....	<b>2,203</b>	<b>190</b>	<b>2,393</b>	<b>1,139</b>	<b>133</b>	<b>1,272</b>	<b>1,187</b>	<b>102</b>	<b>1,289</b>
67 Incinerator construction	37	3	40	189	22	211	3	6	9
68 Park systems, landscaping, sodding, etc.	48	73	121	155	81	236	149	74	223
69 Structural steel erection	602	-	602	-	-	-	-	-	-
70 Swimming pools, tennis courts, outdoor recreation facilities	6	25	31	41	2	43	13	2	15
71 Mineshafts and other below surface workings	171	-	171	683	-	683	1,015	-	1,015
72 Other engineering construction	1,339	89	1,428	71	28	99	7	20	27

TABLE 13. Utilities  
(Thousands of dollars)

Type of structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>	<b>700,543</b>	<b>257,896</b>	<b>958,439</b>	<b>721,700</b>	<b>274,888</b>	<b>996,588</b>	<b>703,853</b>	<b>275,898</b>	<b>979,751</b>
<b>Total Building Construction .....</b>	<b>45,050</b>	<b>28,059</b>	<b>73,109</b>	<b>44,730</b>	<b>29,707</b>	<b>74,437</b>	<b>49,253</b>	<b>28,901</b>	<b>78,154</b>
<b>Residential .....</b>	—	—	—	—	—	—	—	—	—
1 Dwellings, single, double, duplexes and apartments .....	—	—	—	—	—	—	—	—	—
<b>Industrial .....</b>	<b>27,049</b>	<b>23,796</b>	<b>50,845</b>	<b>22,417</b>	<b>25,953</b>	<b>48,370</b>	<b>24,383</b>	<b>24,923</b>	<b>49,316</b>
2 Factories, plants, workshops .....	3,537	438	3,975	1,239	796	2,035	2,009	760	2,769
3 Warehouses, storehouses, refrigerated storage, etc. ....	3,215	1,339	4,554	2,115	1,148	3,263	3,474	896	4,370
4 Grain elevators .....	9,371	4,717	14,088	7,583	3,985	11,568	5,877	3,746	9,623
5 Mine and mine mill buildings .....	—	2	2	—	—	—	—	—	—
6 Railway stations, works offices, roadway buildings .....	5,613	11,550	17,163	6,483	12,702	19,185	7,216	12,064	19,280
7 Railway shops, engine houses, water and fuel stations .....	5,313	5,750	11,063	4,997	7,322	12,319	5,817	7,457	13,274
<b>Commercial .....</b>	<b>17,233</b>	<b>4,063</b>	<b>21,298</b>	<b>21,884</b>	<b>3,679</b>	<b>25,563</b>	<b>23,951</b>	<b>3,860</b>	<b>27,811</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins .....	29	34	63	6	6	12	175	3	178
9 Office buildings .....	6,135	1,180	7,315	2,921	527	3,448	3,086	701	3,787
10 Stores, retail and wholesale, canteens, commissaries .....	14	2	16	15	1	16	143	1	144
11 Garages and service stations .....	1,567	944	2,511	1,051	733	1,784	2,815	734	3,549
12 Theatres, arenas, amusement and recreational buildings .....	356	—	356	—	—	—	—	—	—
13 Farm buildings (excluding dwellings) .....	3	3	6	—	—	—	—	—	—
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	8,569	890	9,459	13,429	1,452	14,881	16,612	1,589	18,201
15 Aeroplane hangars .....	114	783	897	3,660	369	4,029	96	355	451
16 Passenger terminals, bus, boat or air .....	446	229	675	800	585	1,385	1,024	477	1,501
17 Laundries and dry cleaning establishments .....	—	—	—	2	6	8	—	—	—
<b>Institutional .....</b>	<b>34</b>	<b>8</b>	<b>42</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
18 Schools and other educational buildings .....	26	—	26	—	—	—	—	—	—
19 Churches and other religious buildings .....	—	—	—	—	—	—	—	—	—
20 Hospitals, sanatoria, clinics, first-aid stations, etc. ....	—	—	—	—	—	—	—	—	—
21 Other institutional buildings .....	8	6	16	—	—	—	—	—	—
<b>Other Building Construction .....</b>	<b>734</b>	<b>190</b>	<b>924</b>	<b>429</b>	<b>75</b>	<b>504</b>	<b>909</b>	<b>118</b>	<b>1,027</b>
22 Armouries, barracks, drill halls, etc. ....	—	—	—	—	—	—	—	—	—
23 Bunkhouses, dormitories, cookeries, residence buildings .....	734	190	924	281	28	289	848	31	879
24 Other building construction .....	—	—	—	168	47	215	61	87	148
<b>Total Engineering Construction .....</b>	<b>655,493</b>	<b>229,837</b>	<b>885,330</b>	<b>676,970</b>	<b>245,181</b>	<b>922,151</b>	<b>654,600</b>	<b>246,997</b>	<b>901,597</b>
<b>Road, Highway, Bridge and Aerodrome Construction .....</b>	<b>53,544</b>	<b>12,499</b>	<b>66,043</b>	<b>55,641</b>	<b>13,145</b>	<b>68,786</b>	<b>16,980</b>	<b>13,168</b>	<b>30,148</b>
25 Hard surfaced or paved streets, highways, parking lots, etc. ....	909	293	1,202	15,874	65	15,939	45	66	111
26 Gravel or stone streets, highways, roads, parking lots, etc. ....	10,056	127	10,183	480	46	526	72	44	118
27 Dirt, clay or other streets, roads, parking lots, etc. ....	103	45	148	7	22	29	—	12	12
28 Grading, scraping, oiling, filing .....	18,173	2,136	20,309	22,763	2,675	25,438	5,970	2,815	8,785
29 Sidewalks, paths .....	702	61	763	8	2	10	—	—	—
30 Bridges, trestles, culverts, overpasses, etc. ....	6,870	9,172	16,042	5,891	9,908	15,799	5,514	9,832	15,346
31 Tunnels and subways .....	16,721	487	17,208	10,332	416	10,748	5,349	397	5,746
32 Highway and roadside maintenance, guard rails .....	10	—	10	—	10	10	28	—	28
33 Aerodromes, landing fields, runways, tarmac .....	—	178	178	286	1	287	2	2	4

**TABLE 13. UTILITIES — Concluded**  
(Thousands of dollars)

Type of structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	36,781	8,906	45,687	32,782	9,829	42,611	43,504	14,838	58,342
34 Tile drains, drainage ditches, storm sewers .....	407	268	675	198	52	250	164	48	212
35 Waterworks systems and connections .....	32,803	6,188	38,991	28,201	8,967	37,168	37,582	14,102	51,684
36 Sewage systems and connections .....	967	674	1,641	2,192	482	2,674	3,337	537	3,874
37 Pumping stations, water .....	1,349	181	1,530	1,945	313	2,258	1,314	138	1,452
38 Water storage tanks .....	1,255	1,595	2,850	246	15	261	1,107	13	1,120
<b>Dams and Irrigation</b> .....	37,949	344	38,293	35,702	449	36,151	9,653	462	10,115
39 Dams and reservoirs .....	37,949	334	38,283	35,702	449	36,151	9,653	462	10,115
40 Irrigation and land reclamation projects .....	—	10	10	—	—	—	—	—	—
<b>Electric Power Construction</b> .....	336,980	26,093	363,073	360,080	31,999	392,079	361,851	34,698	396,549
41 Central electric stations, power plants, distribution lines .....	335,821	25,330	361,151	358,845	31,392	390,237	360,474	34,071	394,545
42 Street lighting .....	1,159	763	1,922	1,235	607	1,842	1,377	827	2,004
<b>Railway, Telephone and Telegraph</b> .....	104,813	172,073	276,886	109,046	184,433	293,479	109,773	176,345	286,118
43 Railway track laying and surfacing .....	25,757	60,147	85,904	26,229	69,228	95,457	11,383	65,944	77,327
44 Roadway maintenance, track .....	13,789	79,453	93,242	12,713	83,543	96,256	17,567	78,153	95,720
45 Signals and interlockers .....	4,973	4,077	9,050	5,543	4,471	10,014	5,500	4,128	9,628
46 Telegraph and telephone lines, underground and marine cables .....	59,319	24,489	83,808	64,169	24,010	88,179	75,142	25,139	100,281
47 Fences, snowsheds, signs .....	298	3,233	3,531	159	3,089	3,248	105	2,901	3,006
48 Road or highway surfacing and maintenance by railway companies .....	677	674	1,351	233	92	325	76	80	156
<b>Gas and Oil Facilities</b> .....	77,024	1,468	78,492	77,958	3,048	81,006	105,280	5,340	110,620
49 Gas mains and services .....	—	—	—	6,214	719	6,933	4,730	766	5,496
50 Pumping stations, oil .....	8,423	596	9,019	8,086	964	9,050	10,726	938	11,664
51 Pumping stations, gas .....	8	—	8	6	15	21	3	16	19
52 Oil storage tanks .....	270	56	326	6,129	90	6,219	2,280	83	2,363
53 Gas storage tanks .....	1,382	97	1,479	48	63	111	366	67	433
54 Natural gas plants .....	261	26	287	107	2	109	30	6	36
55 Oil pipe lines .....	64,866	417	65,283	53,106	947	54,053	39,233	3,205	42,438
56 Gas pipe lines .....	1,814	276	2,090	4,226	248	4,474	47,889	258	48,147
57 Oil wells .....	—	—	—	—	—	—	23	—	23
58 Gas wells .....	—	—	—	—	—	—	—	—	—
59 Oil refineries .....	—	—	—	36	—	36	—	1	1
<b>Marine Construction</b> .....	5,041	1,450	6,491	5,317	1,467	6,784	7,118	1,460	8,578
60 Docks, wharves, piers, breakwaters .....	889	1,296	2,185	2,616	1,412	4,028	3,211	1,394	4,605
61 Retaining walls, embankments ripraping .....	1	61	62	21	42	63	—	53	53
62 Canals and waterways .....	3,869	22	3,891	2,052	—	2,052	3,823	—	3,823
63 Dredging and pile driving .....	205	2	207	11	8	19	—	7	7
64 Dyke construction .....	—	—	—	11	—	11	—	—	—
65 Logging booms .....	77	69	146	66	5	71	32	6	38
66 Other marine construction .....	—	—	—	540	—	540	52	—	52
<b>Other Engineering Construction</b> .....	3,361	7,004	10,363	444	811	1,235	441	686	1,127
67 Incinerator construction .....	—	2	2	—	—	—	—	—	—
68 Park systems, landscaping, sodding, etc. ....	69	68	137	11	5	16	10	5	15
69 Structural steel erection .....	833	—	833	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	9	28	37	—	—	—	—	—	—
71 Mineshafts and other below surface workings .....	62	103	165	88	93	181	189	142	331
72 Other engineering construction .....	2,388	6,803	9,191	345	713	1,058	242	539	781

**TABLE 14. Trade, Finance and Commercial Services**  
(Thousands of dollars)

TABLE 14. Trade, Finance and Commercial Services — Concluded  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	175	44	219	548	11	559	461	7	468
34 Tile drains, drainage ditches, storm sewers ..	29	2	31	524	4	528	424	4	428
35 Waterworks systems and connections .....	—	—	—	5	5	10	7	—	7
36 Sewage systems and connections .....	—	1	1	19	2	21	14	3	17
37 Pumping stations, water .....	—	—	—	—	—	—	—	—	—
38 Water storage tanks .....	146	41	187	—	—	—	16	—	16
<b>Dams and Irrigation</b> .....	—	—	—	—	—	—	—	—	—
39 Dams and reservoirs .....	—	—	—	—	—	—	—	—	—
40 Irrigation and land reclamation projects .....	—	—	—	—	—	—	—	—	—
<b>Electric Power Construction</b> .....	1	—	1	—	3	3	—	1	1
41 Central electric stations, power plants, distribution lines .....	—	—	—	—	3	3	—	1	1
42 Street lighting .....	1	—	1	—	—	—	—	—	—
<b>Railway, Telephone and Telegraph</b> .....	315	57	372	383	17	400	142	9	151
43 Railway track laying and surfacing .....	94	4	98	178	4	182	26	—	26
44 Roadway maintenance, track .....	—	15	15	—	3	3	—	3	3
45 Signals and interlockers .....	—	—	—	—	—	—	—	—	—
46 Telegraph and telephone lines, underground and marine cables .....	—	—	—	8	—	8	—	—	—
47 Fences, snowsheds, signs .....	221	38	259	197	10	207	116	6	122
48 Road or highway surfacing and maintenance by railway companies .....	—	—	—	—	—	—	—	—	—
<b>Gas and Oil Facilities</b> .....	8,529	1,260	9,789	13,632	1,699	15,351	11,333	1,842	13,175
49 Gas mains and services .....	—	—	—	—	—	—	—	—	—
50 Pumping stations, oil .....	—	—	—	31	4	35	55	5	60
51 Pumping stations, gas .....	—	—	—	—	—	—	—	—	—
52 Oil storage tanks .....	6,208	664	6,872	6,186	1,102	7,348	6,288	1,263	7,551
53 Gas storage tanks .....	1,405	458	1,863	2,881	102	2,983	1,675	103	1,778
54 Natural gas plants .....	—	—	—	—	—	—	—	—	—
55 Oil pipe lines .....	740	138	878	4,554	431	4,985	3,315	471	3,786
56 Gas pipe lines .....	176	—	176	—	—	—	—	—	—
57 Oil wells .....	—	—	—	—	—	—	—	—	—
58 Gas wells .....	—	—	—	—	—	—	—	—	—
59 Oil refineries .....	—	—	—	—	—	—	—	—	—
<b>Marine Construction</b> .....	832	226	1,058	484	533	1,017	309	421	730
60 Docks, wharves, piers, breakwaters .....	193	225	418	151	444	595	69	320	389
61 Retaining walls, embankments, ripraping .....	88	1	89	—	—	—	—	—	—
62 Canals and waterways .....	—	—	—	—	—	—	—	—	—
63 Dredging and pile driving .....	—	—	—	—	—	—	—	15	15
64 Dyke construction .....	551	—	551	331	89	420	240	86	326
65 Logging booms .....	—	—	—	—	—	—	—	—	—
66 Other marine construction .....	—	—	—	2	—	2	—	—	—
<b>Other Engineering Construction</b> .....	19	14	33	75	1	76	64	4	68
67 Incinerator construction .....	5	1	6	—	—	—	—	—	—
68 Park systems, landscaping, sodding etc. ....	7	4	11	45	1	46	18	2	20
69 Structural steel erection .....	—	—	—	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	1	9	10	17	—	17	30	2	32
71 Mineshafts and other below surface workings .....	—	—	—	—	—	—	—	—	—
72 Other engineering construction .....	6	—	6	13	—	13	16	—	16

TABLE 15. Governments 1952  
(thousands of dollars)

Type of Structure	Federal			Provincial			Municipal		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>									
2 Factories, plants, workshops .....	335,098	38,015	373,113	253,789	84,052	337,841	170,700	57,185	227,885
<b>Total Building Construction .....</b>	<b>244,208</b>	<b>19,874</b>	<b>264,082</b>	<b>16,912</b>	<b>7,934</b>	<b>24,846</b>	<b>15,434</b>	<b>1,176</b>	<b>16,610</b>
2 Factories, plants, workshops .....	23,892	1,914	25,806	132	21	153	2,867	214	3,081
3 Warehouses, storehouses, refrigerated storage, etc.	13,127	380	13,507	1,794	104	1,898	576	101	677
8 Hotels, clubs, restaurants, cafeterias, tourist cabins	5,200	269	5,469	35	33	68	12	5	17
9 Office buildings .....	3,290	4,912	8,202	7,597	3,667	11,264	1,610	513	2,123
10 Stores, retail and wholesale, canteens, commissaries	11,443	85	11,528	151	51	202	168	79	247
11 Garages and service stations .....	2,844	323	3,167	268	40	308	605	101	706
12 Theatres, arenas, amusement and recreational buildings .....	3,157	126	3,283	9	—	9	6,543	80	6,623
13 Farm buildings (excluding dwellings) .....	486	123	609	98	24	122	—	—	—
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	50,538	260	50,798	8	—	8	—	—	—
15 Aeroplane hangars .....	21,446	557	22,003	—	—	—	—	6	6
18 Schools and other educational buildings .....	4,529	818	5,347	—	—	—	—	—	—
20 Hospitals, sanatoria, clinics, first-aid stations etc.	1,499	2,069	3,568	—	—	—	—	—	—
21 Other institutional buildings .....	21,671	2,106	23,777	6,711	3,882	10,593	2,925	75	3,000
22 Armouries, barracks, drill halls, etc. .....	79,465	5,536	85,001	—	—	—	—	—	—
24 Other building construction .....	1,621	396	2,017	109	112	221	128	2	130
<b>Total Engineering Construction .....</b>	<b>90,890</b>	<b>18,141</b>	<b>109,031</b>	<b>236,877</b>	<b>76,118</b>	<b>312,995</b>	<b>155,266</b>	<b>56,009</b>	<b>211,275</b>
25 Hard surfaced or paved streets, highways, parking lots, etc. ....	4,097	883	4,980	82,034	32,834	114,868	51,126	17,954	69,080
26 Gravel or stone streets, highways, roads, parking lots, etc. ....	1,449	254	1,703	54,595	17,174	71,769	13,830	5,476	19,306
27 Dirt, clay or other streets, roads, parking lots etc. ....	428	100	528	20,219	5,890	26,109	1,163	737	1,900
28 Grading, scraping, oiling, filling .....	194	37	231	43,313	11,517	54,830	10,248	10,928	21,176
29 Sidewalks, paths .....	256	36	292	649	167	816	14,401	2,689	17,090
30 Bridges, trestles, culverts .....	1,024	1,044	2,068	25,335	6,860	32,195	8,473	1,864	10,357
32 Highway and roadside maintenance, guard rails .....	37	60	97	303	473	776	815	1,956	2,771
33 Aerodromes, landing fields, runways, tarmac .....	23,396	418	23,814	—	—	—	9	38	47
34 Tile drains, drainage ditches, storm sewers .....	359	184	543	5,138	210	5,348	9,727	2,267	11,994
35 Waterworks systems and connections .....	7,811	298	8,109	65	6	71	—	—	—
36 Sewage systems and connections .....	6,394	86	6,480	281	18	299	33,115	5,090	38,205
37 Pumping stations, water .....	420	448	868	12	1	13	—	—	—
38 Water storage tanks .....	200	18	218	27	2	29	56	492	548
39 Dams and reservoirs .....	2,398	831	3,227	387	52	439	1,484	122	1,606
40 Irrigation and land reclamation projects .....	7,179	6	7,185	2,465	—	2,465	155	63	218
41 Central electric stations, power plants, distribution lines .....	3,075	584	3,659	708	116	824	1,633	312	1,945
60 Docks, wharves, piers, breakwaters .....	16,310	4,783	21,093	504	140	644	214	383	597
63 Dredging and pile driving .....	2,290	4,180	6,470	—	—	—	9	3	12
66 Other marine construction .....	1,286	354	1,640	—	—	—	—	—	—
68 Park systems, landscaping, sodding, etc. ....	700	250	950	180	242	422	836	2,464	3,300
72 Other engineering construction .....	11,589	3,287	14,876	662	416	1,078	7,972	3,151	11,123

TABLE 16. Governments 1953  
(thousands of dollars)

Type of Structure	Federal			Provincial			Municipal		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>									
2 Factories, plants, workshops .....	282,059	35,905	317,964	249,136	93,312	341,448	162,828	56,803	219,631
<b>Total Building Construction .....</b>	<b>205,413</b>	<b>19,404</b>	<b>224,817</b>	<b>18,762</b>	<b>9,745</b>	<b>28,507</b>	<b>14,722</b>	<b>1,142</b>	<b>15,864</b>
2 Factories, plants, workshops .....	21,708	1,691	23,399	154	21	175	2,866	166	3,032
3 Warehouses, storehouses, refrigerated storage .....	8,559	368	8,927	2,073	152	2,225	634	90	724
8 Hotels, clubs, restaurants, cafeterias, tourist cabins	3,435	302	3,737	45	40	85	17	6	23
9 Office buildings .....	3,602	4,380	7,982	8,742	4,870	13,612	1,437	514	1,951
10 Stores, retail and wholesale, canteens, commissaries	9,362	83	9,445	177	111	288	106	88	194
11 Garages and service stations .....	2,491	352	2,843	340	122	462	555	101	656
12 Theatres, arenas, amusement and recreational buildings .....	2,520	152	2,672	9	—	9	6,540	87	6,627
13 Farm buildings (excluding dwellings) .....	417	147	564	125	23	148	—	—	—
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	46,610	252	46,862	9	—	9	—	—	—
15 Aeroplane hangars .....	16,390	647	17,037	—	—	—	—	6	6
18 Schools and other educational buildings .....	3,538	856	4,394	—	—	—	—	—	—
20 Hospitals, sanatoria, clinics, first aid stations, etc.	1,420	1,962	3,382	—	—	—	—	—	—
21 Other institutional buildings .....	18,151	1,741	19,892	6,984	4,265	11,249	2,384	82	2,466
22 Armouries, barracks, drill halls, etc. ....	65,808	6,115	71,923	—	—	—	—	—	—
24 Other building construction .....	1,402	356	1,758	104	141	245	183	2	185

TABLE 16. Governments 1953 — Concluded  
(thousands of dollars)

Type of Structure	Federal			Provincial			Municipal		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Engineering Construction</b>									
25 Hard surfaced or paved streets, highways, parking lots, etc.	3,206	1,015	4,221	81,708	34,474	116,182	49,792	18,495	68,287
26 Gravel or stone streets, highways, roads, parking lots, etc.	1,231	367	1,598	53,075	17,973	71,048	13,088	5,771	18,859
27 Dirt, clay or other streets, roads, parking lots, etc.	320	101	421	16,947	6,574	23,521	1,201	547	1,748
28 Grading, scraping, oiling, filling	151	51	202	47,957	13,316	61,273	8,523	10,581	19,104
29 Sidewalks, paths	201	57	258	454	164	618	13,586	2,566	16,152
30 Bridges, trestles, culverts	939	911	1,850	21,270	8,009	29,279	7,578	1,961	9,539
32 Highway and roadside maintenance, guard rails	34	74	108	348	483	831	695	2,149	2,844
33 Aerodromes, landing fields, runways, tarmac	17,704	419	18,123	—	—	—	14	43	57
34 Tile drains, drainage ditches, storm sewers	307	368	675	3,400	503	3,903	9,137	2,062	11,199
35 Waterworks systems and connections	5,955	298	6,253	59	5	64	—	—	—
36 Sewage systems and connections	4,697	91	4,788	362	29	391	31,882	4,327	36,209
37 Pumping stations, water	346	433	779	15	1	16	1,501	727	2,228
38 Water storage tanks	184	15	179	26	2	28	67	549	616
39 Dams and reservoirs	1,313	1,509	2,822	456	51	507	1,788	117	1,905
40 Irrigation and land reclamation projects	6,554	5	6,559	1,731	—	1,731	181	67	248
41 Central electric stations, power plants, distribution lines	2,890	471	3,361	897	114	1,011	1,874	380	2,254
60 Docks, wharves, piers, breakwaters	16,407	3,647	20,054	648	138	786	330	432	762
63 Dredging and pile driving	2,148	3,278	5,426	—	—	—	14	3	17
65 Other marine construction	1,012	276	1,288	—	—	—	—	—	—
88 Park systems, landscaping, sodding, etc.	704	248	952	226	290	516	782	2,526	3,308
72 Other engineering construction	10,383	2,887	13,230	795	441	1,236	6,073	2,358	8,431

TABLE 17. Governments 1954  
(thousands of dollars)

Type of Structure	Federal			Provincial			Municipal		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction</b>									
291,580	34,322	325,902	253,199	97,812	351,011	193,150	59,061	252,211	
<b>Total Building Construction</b>									
212,313	18,420	230,733	18,866	10,357	29,223	18,051	1,156	17,207	
2 Factories, plants workshops	21,234	1,986	23,220	161	21	182	3,101	167	3,268
3 Warehouses, storehouses, refrigerated storage, etc.	9,031	342	9,373	1,914	154	2,068	687	91	778
8 Hotels, clubs, restaurants, cafeterias, tourist cabins	3,313	279	3,592	41	40	81	18	6	24
9 Office buildings	3,789	4,097	7,886	8,733	5,071	13,804	1,750	522	2,272
10 Stores, retail and wholesale, canteens, commissaries	9,454	85	9,539	183	114	297	103	89	192
11 Garages and service stations	2,641	323	2,964	305	127	432	654	104	758
12 Theatres, arenas, amusement and recreational buildings	2,587	140	2,727	10	—	10	6,968	88	7,056
13 Farm buildings (excluding dwellings)	442	138	580	131	23	154	—	—	—
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges	49,082	234	49,316	8	—	8	—	—	—
15 Aeroplane hangars	16,823	592	17,415	—	—	—	6	6	6
18 Schools and other educational buildings	3,408	793	4,201	—	—	—	3	—	3
20 Hospitals, sanatoria, clinics, first-aid stations, etc.	1,399	1,841	3,240	—	—	—	—	—	—
21 Other institutional buildings	19,284	1,660	20,944	7,273	4,609	11,882	2,582	81	2,663
22 Armouries, barracks, drill halls, etc.	68,450	5,574	74,024	—	—	—	—	—	—
24 Other building construction	1,376	336	1,712	107	198	305	185	2	187
<b>Total Engineering Construction</b>									
79,267	15,902	95,169	234,333	87,455	321,788	177,099	57,905	235,004	
25 Hard surfaced or paved streets, highways, parking lots, etc.	3,122	941	4,063	83,634	35,876	119,510	57,847	19,190	77,037
26 Gravel or stone streets, highways, roads, parking lots, etc.	1,177	334	1,511	55,934	18,698	74,632	15,979	6,052	22,031
27 Dirt, clay or other streets, roads, parking lots, etc.	317	95	412	18,073	6,919	24,992	1,349	556	1,905
28 Grading, scraping, oiling, filling	150	47	197	45,680	15,395	61,075	11,477	11,291	22,768
29 Sidewalks, paths	209	52	261	436	182	618	16,192	2,620	18,812
30 Bridges, trestles, culverts	986	861	1,847	21,891	8,236	30,127	9,599	2,067	11,666
32 Highway and roadside maintenance, guard rails	33	88	101	346	529	875	869	2,275	3,144
33 Aerodromes, landing fields, runways, tarmac	18,252	391	18,643	—	—	—	14	44	58
34 Tile drains, drainage ditches, storm sewers	289	327	616	3,326	525	3,851	11,246	2,131	13,377
35 Waterworks systems and connections	6,050	278	6,328	89	5	74	—	—	—
36 Sewage systems and connections	4,850	89	4,939	327	30	357	37,699	4,428	42,127
37 Pumping stations, water	358	409	767	13	1	14	1,876	734	2,610
38 Water storage tanks	165	14	179	30	2	32	65	546	611
39 Dams and reservoirs	1,355	1,398	2,753	427	54	481	2,089	120	2,209
40 Irrigation and land reclamation projects	6,200	5	6,205	1,781	—	1,781	211	66	277
41 Central electric stations, power plants, distribution lines	2,728	445	3,173	803	116	919	2,190	368	2,558
60 Docks, wharves, piers, breakwaters	17,826	3,569	21,395	583	140	723	325	424	749
63 Dredging and pile driving	2,345	3,377	5,722	—	—	—	14	3	17
65 Other marine construction	1,088	267	1,355	—	—	—	—	—	—
68 Park systems, landscaping, sodding, etc.	678	214	892	206	296	502	937	2,562	3,499
72 Other engineering construction	11,089	2,721	13,810	774	451	1,225	7,121	2,428	9,549

**TABLE 18. Housing and Institutional Services**  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Housing:</b>									
1 Dwellings, single, double, duplexes and apartments .....	826,000	203,000	1,029,000	1,086,000	212,700	1,298,700	1,122,100	225,300	1,347,400
<b>Institutions:</b>									
<b>Total Value of Work Performed .</b>	<b>245,353</b>	<b>32,122</b>	<b>277,475</b>	<b>268,368</b>	<b>34,675</b>	<b>303,043</b>	<b>365,593</b>	<b>36,979</b>	<b>402,572</b>
12 Theatres, arenas, amusement and recreational buildings .....	193	10	203	1,537	21	1,558	1,832	15	1,847
18 Schools and other educational buildings .....	130,460	16,013	146,473	128,748	17,087	145,835	149,076	18,325	167,401
19 Churches and other religious buildings .....	25,198	5,217	30,415	25,029	6,100	31,129	28,645	6,288	34,933
20 Hospitals, sanatoria, clinics, first-aid stations, etc. ....	77,995	10,265	88,260	102,919	10,596	113,515	161,622	11,814	173,436
23 Bunkhouses, dormitories, cookeries, residence buildings .....	3,325	287	3,612	2,294	341	2,635	12,036	187	12,223
24 Other building construction .....	416	106	522	851	356	1,207	3,869	195	4,064
41 Central electric stations, power plants, distribution lines .....	925	88	1,013	398	80	478	1,227	72	1,299
72 Other engineering construction .....	6,841	136	6,977	6,592	94	6,686	7,286	83	7,369

**VALUE OF CONSTRUCTION WORK PERFORMED BY TYPE OF STRUCTURE - REGIONS 1952-1954<sup>1</sup>**

**TABLE 19. Atlantic Provinces**  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>									
<b>Total Building Construction .....</b>	<b>200,950</b>	<b>94,445</b>	<b>295,395</b>	<b>215,855</b>	<b>98,799</b>	<b>314,654</b>	<b>250,131</b>	<b>97,198</b>	<b>347,329</b>
<b>Residential .....</b>									
<b>Total Building Construction .....</b>	<b>129,369</b>	<b>46,993</b>	<b>176,362</b>	<b>141,914</b>	<b>48,261</b>	<b>190,175</b>	<b>167,137</b>	<b>46,373</b>	<b>213,510</b>
<b>Industrial .....</b>	<b>47,900</b>	<b>22,000</b>	<b>69,900</b>	<b>60,500</b>	<b>21,000</b>	<b>81,500</b>	<b>73,000</b>	<b>20,500</b>	<b>93,500</b>
2 Factories, plants, workshops .....	20,502	12,430	32,932	20,010	13,724	33,734	18,783	12,119	30,902
3 Warehouses, storehouses, refrigerated storage, etc. ....	12,222	8,103	20,325	8,690	9,087	17,777	5,362	7,500	12,882
4 Grain elevators .....	6,360	1,927	8,287	9,561	1,742	11,303	9,764	1,734	11,498
5 Mine and mine mill buildings .....	8	16	24	36	28	64	2	25	27
6 Railway stations, works offices, roadway buildings .....	526	170	696	316	351	667	2,257	332	2,589
7 Railway shops, engine houses, water and fuel stations .....	610	1,293	1,903	665	1,302	1,967	677	1,305	1,982
8 Hotels, clubs, restaurants, cafeterias, tourist cabins .....	776	921	1,697	742	1,214	1,956	721	1,223	1,944
<b>Commercial .....</b>									
<b>Total Value of Construction .....</b>	<b>23,069</b>	<b>7,970</b>	<b>33,039</b>	<b>26,009</b>	<b>8,967</b>	<b>34,976</b>	<b>32,341</b>	<b>9,009</b>	<b>41,350</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins .....	2,252	557	2,809	1,894	557	2,451	606	441	1,047
9 Office buildings .....	3,452	1,859	5,311	3,354	2,349	5,703	4,393	2,321	6,714
10 Stores, retail and wholesale, canteens, commissaries .....	3,736	1,106	4,842	3,930	1,533	5,463	8,157	1,528	9,685
11 Garages and service stations .....	2,992	689	3,681	2,272	642	2,914	1,668	659	2,327
12 Theatres, arenas, amusement and recreational buildings .....	1,424	188	1,610	1,020	158	1,178	920	163	1,083
13 Farm buildings (excluding dwellings) .....	2,984	3,255	6,239	2,687	3,405	6,092	2,645	3,559	6,204
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	5,881	104	5,985	7,767	156	7,923	10,300	181	10,481
15 Aeroplane hangars .....	2,338	116	2,454	2,939	78	3,017	3,487	70	3,567
16 Passenger terminals, bus, boat or air .....	1	56	57	17	28	45	20	22	42
17 Laundries and dry cleaning establishments ..	9	42	51	129	61	190	135	65	200
<b>Institutional .....</b>									
<b>Total Value of Construction .....</b>	<b>22,005</b>	<b>3,413</b>	<b>25,418</b>	<b>21,370</b>	<b>3,500</b>	<b>24,870</b>	<b>24,372</b>	<b>3,940</b>	<b>28,312</b>
18 Schools and other educational buildings .....	9,242	823	10,065	7,440	761	8,201	8,699	777	9,476
19 Churches and other religious buildings .....	2,441	808	3,249	2,140	613	2,753	2,294	563	2,857
20 Hospitals, sanatoria, clinics, first-aid stations, etc. ....	6,798	964	7,762	8,077	1,122	9,199	9,786	1,571	11,357
21 Other institutional buildings .....	3,524	818	4,342	3,713	1,004	4,717	3,593	1,029	4,622
<b>Other Building Construction .....</b>									
<b>Total Value of Construction .....</b>	<b>13,893</b>	<b>1,180</b>	<b>15,073</b>	<b>14,025</b>	<b>1,070</b>	<b>15,095</b>	<b>18,641</b>	<b>805</b>	<b>19,446</b>
22 Armouries, barracks, drill halls, etc. ....	12,694	764	13,458	13,267	528	13,795	15,639	516	16,155
23 Bunkhouses, dormitories, cookeries, residence buildings .....	846	407	1,253	446	487	933	2,625	226	2,851
24 Other building construction .....	353	9	362	312	55	367	377	63	440

1. Actual 1952, Preliminary Actual 1953, Intentions 1954.

**TABLE 19. Atlantic Provinces — Concluded**  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Engineering Construction .....</b>	<b>71,581</b>	<b>47,452</b>	<b>119,033</b>	<b>73,941</b>	<b>50,538</b>	<b>124,479</b>	<b>82,994</b>	<b>50,825</b>	<b>133,819</b>
<b>Road, Highway, Bridge and Aerodrome Construction.....</b>									
25 Hard surfaced or paved streets, highways, parking lots, etc.	25,195	16,135	41,330	30,144	20,318	50,462	33,269	20,523	53,792
26 Gravel or stone streets, highways, roads, parking lots, etc.	8,765	5,048	13,813	10,107	7,153	17,260	10,734	7,397	18,131
27 Dirt, clay or other streets, roads, parking lots, etc.	6,181	4,110	10,291	7,114	5,040	12,154	7,978	5,037	13,015
28 Grading, scraping, oiling, filling .....	4,041	3,416	7,457	5,678	3,710	9,388	6,541	3,662	10,203
29 Sidewalks, paths .....	789	431	1,220	1,162	553	1,715	1,162	552	1,714
30 Bridges, trestles, culverts, overpasses, etc.	675	154	829	595	205	800	539	186	725
31 Tunnels and subways .....	2,142	2,808	4,950	2,729	3,516	6,245	3,070	3,549	6,619
32 Highway and roadside maintenance, .....	29	50	79	37	42	79	36	41	77
33 Aerodromes, landing fields, runways, tarmac .....	20	17	37	15	36	51	16	37	53
	2,553	101	2,654	2,707	63	2,770	3,193	62	3,255
<b>Waterworks and Sewage Systems .....</b>	<b>3,991</b>	<b>1,725</b>	<b>5,716</b>	<b>3,160</b>	<b>1,791</b>	<b>4,951</b>	<b>3,510</b>	<b>1,979</b>	<b>5,489</b>
34 Tile drains, drainage ditches, storm sewers .....	81	241	322	113	537	650	94	548	642
35 Waterworks systems and connections .....	2,454	845	3,299	1,406	739	2,145	1,911	909	2,820
36 Sewage systems and connections .....	1,165	376	1,541	1,523	450	1,973	1,410	459	1,869
37 Pumping stations, water .....	233	71	304	100	53	153	79	54	133
38 Water storage tanks .....	58	192	250	18	12	30	16	9	25
<b>Dams and Irrigation .....</b>	<b>2,052</b>	<b>283</b>	<b>2,335</b>	<b>1,712</b>	<b>459</b>	<b>2,171</b>	<b>1,571</b>	<b>430</b>	<b>2,001</b>
39 Dams and reservoirs .....	1,610	152	1,762	1,661	442	2,103	1,515	413	1,928
40 Irrigation and land reclamation projects .....	442	131	573	51	17	68	56	17	73
<b>Electric Power Construction .....</b>	<b>8,993</b>	<b>2,492</b>	<b>11,485</b>	<b>12,393</b>	<b>2,360</b>	<b>14,753</b>	<b>12,845</b>	<b>2,349</b>	<b>15,194</b>
41 Central electric stations, power plants, distribution lines .....	8,944	2,432	11,376	12,310	2,328	14,638	12,801	2,319	15,120
42 Street lighting .....	49	60	109	83	32	115	44	30	74
<b>Railway, Telephone and Telegraph .....</b>	<b>11,402</b>	<b>18,297</b>	<b>29,699</b>	<b>7,762</b>	<b>19,574</b>	<b>27,336</b>	<b>8,851</b>	<b>19,513</b>	<b>28,364</b>
43 Railway track laying and surfacing .....	2,728	6,439	9,167	496	7,147	7,643	450	7,081	7,531
44 Roadway maintenance, track .....	1,569	8,382	9,951	1,567	8,794	10,361	1,705	8,708	10,413
45 Signals and interlockers .....	434	358	792	447	411	858	456	401	857
46 Telegraph and telephone lines, underground and marine cables .....	6,232	2,271	8,503	5,145	2,829	7,974	6,179	2,943	9,122
47 Fences, snowsheds, signs .....	396	814	1,210	71	393	464	59	380	439
48 Road or highway surfacing and maintenance by railway companies .....	43	33	76	36	—	36	2	—	2
<b>Gas or Oil Facilities .....</b>	<b>934</b>	<b>652</b>	<b>1,586</b>	<b>1,998</b>	<b>1,109</b>	<b>3,107</b>	<b>2,899</b>	<b>1,172</b>	<b>4,071</b>
49 Gas mains and services .....	—	—	—	—	21	21	—	12	12
50 Pumping stations, oil .....	34	—	34	11	6	17	—	8	8
51 Pumping stations, gas .....	—	—	—	—	—	—	—	—	—
52 Oil storage tanks .....	580	235	815	833	439	1,272	653	446	1,099
53 Gas storage tanks .....	24	2	26	153	54	207	101	53	154
54 Natural gas plants .....	1	13	14	—	—	—	—	—	—
55 Oil pipe lines .....	114	—	114	909	68	977	633	87	720
56 Gas pipe lines .....	—	12	12	—	—	—	—	—	—
57 Oil wells .....	—	—	—	—	—	—	—	—	—
58 Gas wells .....	—	—	—	—	—	—	—	—	—
59 Oil refineries .....	181	390	571	92	521	613	1,512	566	2,078
<b>Marine Construction .....</b>	<b>14,408</b>	<b>6,115</b>	<b>20,523</b>	<b>14,960</b>	<b>4,505</b>	<b>19,465</b>	<b>17,040</b>	<b>4,620</b>	<b>21,660</b>
60 Docks, wharves, piers, breakwaters .....	11,371	3,489	14,860	11,773	2,768	14,541	13,251	2,717	15,968
61 Retaining walls, embankments, ripraping .....	1	325	326	1	176	177	1	198	199
62 Canals and waterways .....	60	53	113	28	5	33	33	6	39
63 Dredging and pile driving .....	1,042	1,922	2,964	1,067	1,305	2,372	1,228	1,441	2,689
64 Dyke construction .....	1,540	156	1,696	1,834	144	1,978	2,282	147	2,429
65 Logging booms .....	189	13	202	61	8	69	12	10	22
66 Other marine construction .....	205	157	362	196	99	295	233	101	334
<b>Other Engineering Construction .....</b>	<b>4,606</b>	<b>1,753</b>	<b>6,359</b>	<b>1,812</b>	<b>422</b>	<b>2,234</b>	<b>3,009</b>	<b>239</b>	<b>3,248</b>
67 Incinerator construction .....	—	—	—	2	1	3	—	—	—
68 Park systems, landscaping, sodding, etc. ....	567	80	647	558	114	672	561	113	674
69 Structural steel erection .....	426	—	426	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	20	44	64	21	33	54	24	31	55
71 Mine shafts and other below surface workings .....	3,092	603	3,695	893	242	1,135	2,040	68	2,108
72 Other engineering construction .....	501	1,026	1,527	338	32	370	384	27	411

TABLE 20. Quebec  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction</b>	<b>842,965</b>	<b>209,322</b>	<b>1,052,287</b>	<b>863,476</b>	<b>212,489</b>	<b>1,077,965</b>	<b>963,701</b>	<b>220,167</b>	<b>1,185,868</b>
<b>Total Building Construction</b>	<b>502,206</b>	<b>124,567</b>	<b>626,773</b>	<b>605,283</b>	<b>125,131</b>	<b>730,414</b>	<b>689,424</b>	<b>128,144</b>	<b>817,568</b>
<b>Residential</b>	<b>242,800</b>	<b>50,300</b>	<b>293,100</b>	<b>329,200</b>	<b>54,500</b>	<b>383,700</b>	<b>352,400</b>	<b>59,000</b>	<b>411,400</b>
1 Dwellings, single, double, duplexes and apartments	242,800	50,300	293,100	329,200	54,500	383,700	352,400	59,000	411,400
<b>Industrial</b>	<b>84,650</b>	<b>31,228</b>	<b>115,878</b>	<b>78,361</b>	<b>28,228</b>	<b>104,589</b>	<b>88,034</b>	<b>25,555</b>	<b>113,589</b>
2 Factories, plants, workshops	64,271	21,116	85,387	40,341	18,521	58,862	45,870	16,271	62,141
3 Warehouses, storehouses, refrigerated storage, etc.	12,068	3,213	15,281	20,677	2,915	23,592	18,026	2,921	20,947
4 Grain elevators	53	54	107	80	73	153	38	65	103
5 Mine and mine mill buildings	5,017	1,545	6,562	12,181	1,468	13,649	19,007	1,527	20,534
6 Railway stations, works offices, roadway buildings	1,200	2,035	3,235	1,297	2,159	3,456	1,541	2,090	3,631
7 Railway shops, engine houses, water and fuel stations	2,041	3,265	5,306	1,785	3,092	4,877	3,552	2,681	6,233
<b>Commercial</b>	<b>77,725</b>	<b>25,089</b>	<b>102,814</b>	<b>93,262</b>	<b>24,988</b>	<b>118,250</b>	<b>100,521</b>	<b>24,929</b>	<b>125,450</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins	4,315	2,718	7,033	2,741	2,103	4,844	2,540	1,763	4,303
9 Office buildings	15,285	3,919	19,204	11,684	4,588	16,272	21,490	4,363	25,853
10 Stores, retail and wholesale, canteens, commissaries	6,065	2,960	9,025	19,956	2,975	22,931	17,201	3,090	20,291
11 Garages and service stations	8,629	3,090	11,719	10,259	2,189	12,448	11,699	2,478	14,177
12 Theatres, arenas, amusement and recreational buildings	8,289	463	8,752	10,352	415	10,767	10,413	340	10,753
13 Farm buildings (excluding dwellings)	13,869	10,718	24,587	14,543	11,332	25,875	14,569	11,814	26,383
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges	19,166	390	19,556	19,153	480	19,633	20,346	410	20,756
15 Aeroplane hangars	1,664	577	2,241	4,294	364	4,658	734	354	1,088
16 Passenger terminals, bus, boat or air	4	45	49	22	38	60	4	26	30
17 Laundries and dry cleaning establishments	439	209	648	258	504	762	1,525	291	1,816
<b>Institutional</b>	<b>86,405</b>	<b>14,989</b>	<b>101,394</b>	<b>94,946</b>	<b>15,078</b>	<b>110,024</b>	<b>135,236</b>	<b>16,960</b>	<b>152,196</b>
18 Schools and other educational buildings	43,724	6,225	49,949	39,170	6,433	45,603	42,941	6,918	49,859
19 Churches and other religious buildings	14,128	2,790	18,918	9,529	3,201	12,730	11,234	3,915	15,149
20 Hospitals, sanatoriums, clinics, first-aid stations, etc.	22,661	4,345	27,006	40,785	3,840	44,625	75,306	4,377	79,683
21 Other institutional buildings	5,892	1,629	7,521	5,462	1,604	7,066	5,755	1,750	7,505
<b>Other Building Construction</b>	<b>10,626</b>	<b>2,961</b>	<b>13,587</b>	<b>11,514</b>	<b>2,337</b>	<b>13,851</b>	<b>13,233</b>	<b>1,700</b>	<b>14,933</b>
22 Armouries, barracks, drill halls, etc.	7,693	704	8,397	7,622	777	8,399	8,152	731	8,883
23 Bunkhouses, dormitories, cookeries, residence buildings	2,834	2,244	5,078	3,884	1,556	5,440	5,072	962	6,034
24 Other building construction	99	13	112	8	4	12	9	7	16
<b>Total Engineering Construction</b>	<b>340,759</b>	<b>84,755</b>	<b>425,514</b>	<b>260,193</b>	<b>87,358</b>	<b>347,551</b>	<b>276,277</b>	<b>92,023</b>	<b>368,300</b>
<b>Road, Highway, Bridge and Aerodrome Construction</b>	<b>128,950</b>	<b>29,350</b>	<b>158,300</b>	<b>104,618</b>	<b>28,348</b>	<b>132,966</b>	<b>86,056</b>	<b>29,842</b>	<b>115,698</b>
25 Hard surfaced or paved streets, highways, parking lots, etc.	43,335	9,676	53,011	34,609	9,349	43,958	35,621	10,046	45,667
26 Gravel or stone streets, highways, roads, parking lots, etc.	23,215	7,313	30,528	15,356	7,027	22,383	14,699	7,073	21,772
27 Dirt, clay or other streets, roads, parking lots, etc.	13,459	4,538	17,997	9,774	3,974	13,748	9,810	4,509	14,319
28 Grading, scraping, oiling, filling	21,162	2,460	23,622	23,390	2,588	25,978	6,128	2,767	8,895
29 Sidewalks, paths	4,058	1,008	5,066	3,657	1,010	4,667	3,853	1,024	4,877
30 Bridges, trestles, culverts, overpasses, etc.	18,077	3,443	21,520	12,607	3,626	16,233	11,563	3,658	15,221
31 Tunnels and subways	3,192	84	3,276	2,527	74	2,601	1,818	69	1,887
32 Highway and roadside maintenance, guardrails	249	665	914	237	522	759	252	532	784
33 Aerodromes, landing fields, runways, tarmac	2,203	163	2,366	2,461	178	2,639	2,312	164	2,476

**TABLE 20. Quebec — Concluded**  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	<b>26,884</b>	<b>4,325</b>	<b>31,209</b>	<b>21,167</b>	<b>5,321</b>	<b>26,428</b>	<b>22,531</b>	<b>9,427</b>	<b>31,958</b>
34 Tile drains, drainage ditches, storm sewers .....	6,475	237	6,712	4,805	241	5,046	4,723	256	4,979
35 Waterworks systems and connections .....	9,869	1,997	11,866	5,103	3,230	8,333	6,741	7,414	14,155
36 Sewage systems and connections .....	9,475	1,446	10,921	10,172	1,288	11,460	10,229	1,307	11,536
37 Pumping stations, water .....	799	454	1,253	936	560	1,496	688	448	1,136
38 Water storage tanks .....	266	191	457	91	2	93	150	2	152
<b>Dams and Irrigation</b> .....	<b>9,783</b>	<b>1,316</b>	<b>11,099</b>	<b>5,637</b>	<b>1,230</b>	<b>6,867</b>	<b>2,881</b>	<b>1,167</b>	<b>4,048</b>
39 Dams and reservoirs .....	7,225	1,092	8,317	4,432	1,210	5,642	1,706	1,163	2,869
40 Irrigation and land reclamation projects .....	2,558	224	2,782	1,205	20	1,225	1,175	4	1,179
<b>Electric Power Construction</b> .....	<b>104,471</b>	<b>5,662</b>	<b>110,133</b>	<b>53,206</b>	<b>5,967</b>	<b>59,173</b>	<b>80,585</b>	<b>6,390</b>	<b>86,975</b>
41 Central electric stations, power plants, distribution lines .....	104,288	5,579	109,867	52,938	5,946	58,884	80,312	6,374	86,686
42 Street lighting .....	183	83	266	268	21	289	273	16	289
<b>Railway, Telephone and Telegraph</b> .....	<b>37,344</b>	<b>32,290</b>	<b>69,634</b>	<b>43,891</b>	<b>35,155</b>	<b>79,046</b>	<b>34,191</b>	<b>34,064</b>	<b>68,255</b>
43 Railway track laying and surfacing .....	18,719	10,165	28,884	22,250	11,415	33,665	6,485	10,916	17,401
44 Roadway maintenance, track .....	2,492	14,404	16,896	2,175	15,832	18,007	5,647	15,021	20,668
45 Signals and interlockers .....	1,313	706	2,019	2,204	801	3,005	2,212	743	2,955
46 Telegraph and telephone lines, underground and marine cables .....	13,743	5,357	19,100	16,843	6,430	23,273	19,445	6,741	26,186
47 Fences, snowsheds, signs .....	987	1,570	2,557	377	677	1,054	389	643	1,032
48 Road or highway surfacing and maintenance by railway companies .....	90	88	178	42	—	42	13	—	13
<b>Gas and Oil Facilities</b> .....	<b>8,475</b>	<b>2,975</b>	<b>11,450</b>	<b>8,050</b>	<b>3,695</b>	<b>11,745</b>	<b>29,733</b>	<b>5,193</b>	<b>34,926</b>
49 Gas mains and services .....	—	—	—	408	42	450	313	41	354
50 Pumping stations, oil .....	282	42	324	333	84	417	58	54	112
51 Pumping stations, gas .....	72	133	205	47	69	116	36	88	124
52 Oil storage tanks .....	1,997	165	2,182	2,307	517	2,824	2,830	342	3,172
53 Gas storage tanks .....	390	24	414	1,635	60	1,695	1,225	66	1,291
54 Natural gas plants .....	—	—	—	—	—	—	—	—	—
55 Oil pipe lines .....	3,435	48	3,483	1,442	219	1,661	2,221	1,271	3,492
56 Gas pipe lines .....	282	507	789	—	294	294	—	357	357
57 Oil wells .....	—	—	—	—	—	—	—	—	—
58 Gas wells .....	—	—	—	—	—	—	—	—	—
59 Oil refineries .....	2,017	2,056	4,073	1,878	2,410	4,288	23,050	2,974	26,024
<b>Marine Construction</b> .....	<b>13,666</b>	<b>4,516</b>	<b>18,182</b>	<b>8,341</b>	<b>4,909</b>	<b>13,250</b>	<b>9,135</b>	<b>3,222</b>	<b>12,357</b>
60 Docks, wharves, piers, breakwaters .....	6,815	1,051	7,866	4,318	1,121	5,439	3,488	886	4,374
61 Retaining walls, embankments, ripraping .....	882	208	1,090	899	205	1,104	822	204	1,026
62 Canals and waterways .....	5,068	1,667	6,735	2,275	718	2,993	4,061	569	4,630
63 Dredging and pile driving .....	237	644	881	351	790	1,141	241	784	1,025
64 Dyke construction .....	181	14	195	95	15	110	5	14	19
65 Logging booms .....	403	872	1,275	172	1,173	1,345	374	248	622
66 Other marine construction .....	80	60	140	231	887	1,118	144	517	661
<b>Other Engineering Construction</b> .....	<b>11,186</b>	<b>4,321</b>	<b>15,507</b>	<b>15,343</b>	<b>2,733</b>	<b>18,076</b>	<b>11,165</b>	<b>2,718</b>	<b>13,883</b>
67 Incinerator construction .....	718	306	1,024	706	321	1,027	751	320	1,071
68 Park systems, landscaping, sodding, etc. ....	1,777	1,221	2,998	1,547	1,246	2,793	1,698	1,245	2,943
69 Structural steel erection .....	468	—	468	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	624	478	1,102	572	478	1,050	612	473	1,085
71 Mine shafts and other below surface workings .....	4,324	533	4,857	6,910	525	7,435	4,203	579	4,782
72 Other engineering construction .....	3,275	1,783	5,058	5,608	163	5,771	3,901	101	4,002

TABLE 21. Ontario  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction</b>	<b>1,136,976</b>	<b>321,307</b>	<b>1,458,283</b>	<b>1,306,850</b>	<b>333,936</b>	<b>1,640,786</b>	<b>1,368,165</b>	<b>342,436</b>	<b>1,710,601</b>
<b>Total Building Construction</b>	<b>731,871</b>	<b>178,857</b>	<b>910,728</b>	<b>846,203</b>	<b>181,077</b>	<b>1,027,280</b>	<b>904,901</b>	<b>186,690</b>	<b>1,091,591</b>
<b>Residential</b>	<b>309,800</b>	<b>69,100</b>	<b>378,900</b>	<b>400,000</b>	<b>74,200</b>	<b>474,200</b>	<b>406,500</b>	<b>79,600</b>	<b>486,100</b>
1 Dwellings, single, double, duplexes and apartments	309,800	69,100	378,900	400,000	74,200	474,200	406,500	79,600	486,100
<b>Industrial</b>	<b>181,361</b>	<b>48,378</b>	<b>229,739</b>	<b>182,533</b>	<b>48,239</b>	<b>230,772</b>	<b>177,913</b>	<b>46,896</b>	<b>224,809</b>
2 Factories, plants, workshops	142,301	37,316	179,617	134,498	36,564	171,062	127,135	35,670	162,805
3 Warehouses, storehouses, refrigerated storage, etc.	26,271	3,598	29,869	37,759	2,923	40,682	31,295	2,364	33,659
4 Grain elevators	1,082	367	1,449	394	497	891	763	417	1,180
5 Mine and mine mill buildings	7,850	989	8,839	6,235	856	7,091	14,568	1,234	15,802
6 Railway stations, works offices, roadway buildings	1,714	3,489	5,203	1,941	4,422	6,363	2,523	4,303	6,826
7 Railway stops, enginehouses, water and fuel stations	2,143	2,619	4,762	1,706	2,977	4,683	1,629	2,908	4,537
<b>Commercial</b>	<b>114,732</b>	<b>45,907</b>	<b>160,639</b>	<b>139,722</b>	<b>44,775</b>	<b>184,497</b>	<b>172,861</b>	<b>46,197</b>	<b>219,058</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins	4,759	3,571	8,330	5,352	3,352	8,704	5,474	2,946	8,420
9 Office buildings	25,090	7,965	33,055	37,272	6,334	43,606	53,293	6,406	59,699
10 Stores, retail and wholesale, canteens, commissaries	25,777	6,904	32,681	40,197	5,909	46,106	49,182	6,691	55,873
11 Garages and service stations	8,084	3,374	11,458	11,038	4,030	15,068	17,264	4,129	21,393
12 Theatres, arenas, amusement and recreational buildings	4,304	433	4,737	4,788	482	5,270	3,487	417	3,904
13 Farm buildings (excluding dwellings)	17,768	22,488	40,256	18,381	23,317	41,698	18,503	24,223	42,726
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges	20,406	531	20,937	16,771	590	17,361	18,877	624	19,501
15 Aeroplane hangars	8,300	185	8,485	5,129	139	5,268	5,471	128	5,599
16 Passenger terminals, bus, boat or air	81	112	193	285	339	624	571	365	936
17 Laundries and dry cleaning establishments	163	344	507	509	283	792	739	268	1,007
<b>Institutional</b>	<b>94,264</b>	<b>11,631</b>	<b>105,895</b>	<b>100,020</b>	<b>11,225</b>	<b>111,245</b>	<b>124,679</b>	<b>11,498</b>	<b>136,177</b>
18 Schools and other educational buildings	45,799	5,045	50,844	48,020	4,861	52,881	58,719	5,360	64,079
19 Churches and other religious buildings	6,684	1,132	7,816	8,784	1,457	10,241	9,919	1,222	11,141
20 Hospitals, sanatoria, clinics, first-aid stations, etc.	27,200	3,926	31,126	31,309	3,701	35,010	43,359	3,693	47,052
21 Other institutional buildings	14,581	1,528	16,109	11,907	1,206	13,113	12,682	1,223	13,905
<b>Other Building Construction</b>	<b>31,714</b>	<b>3,841</b>	<b>35,555</b>	<b>23,928</b>	<b>2,638</b>	<b>26,566</b>	<b>22,948</b>	<b>2,499</b>	<b>25,447</b>
22 Armouries, barracks, drill halls, etc.	25,299	2,434	27,733	19,070	1,794	20,864	20,343	1,693	22,036
23 Bunkhouses, dormitories, cookeries, residence buildings	6,237	1,407	7,644	3,060	780	3,840	2,104	733	2,837
24 Other building construction	178	—	178	1,798	64	1,862	501	73	574
<b>Total Engineering Construction</b>	<b>405,105</b>	<b>142,450</b>	<b>547,555</b>	<b>460,647</b>	<b>152,859</b>	<b>613,506</b>	<b>463,264</b>	<b>155,746</b>	<b>619,010</b>
<b>Road, Highway, Bridge and Aerodrome Construction</b>	<b>138,118</b>	<b>54,401</b>	<b>192,519</b>	<b>135,360</b>	<b>56,456</b>	<b>191,816</b>	<b>141,084</b>	<b>59,147</b>	<b>200,231</b>
25 Hard surfaced or paved streets, highways, parking lots, etc.	43,663	25,268	68,931	46,149	25,900	72,049	51,446	27,106	78,552
26 Gravel or stone streets, highways, roads, parking lots, etc.	17,076	10,301	27,377	17,292	11,002	28,294	18,495	11,372	29,867
27 Dirt, clay or other streets, roads, parking lots, etc.	805	1,029	1,834	678	355	1,033	791	372	1,163
28 Grading, scraping, oiling, filling	37,327	10,218	47,545	42,776	11,287	54,063	41,551	12,030	53,581
29 Sidewalks, paths	5,921	855	6,776	4,490	915	5,405	6,179	958	7,137
30 Bridges, trestles, culverts, overpasses, etc.	9,476	4,981	14,457	8,307	5,243	13,550	10,602	5,416	16,018
31 Tunnels and subways	15,488	141	15,629	9,342	125	9,467	5,153	133	5,286
32 Highway and roadside maintenance, guardrails	783	1,468	2,251	602	1,524	2,126	763	1,659	2,422
33 Aerodromes, landing fields, runways, tarmac	7,579	140	7,719	5,724	105	5,829	6,104	101	6,205

TABLE 21. Ontario - Concluded  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	<b>42,410</b>	<b>5,306</b>	<b>47,716</b>	<b>35,041</b>	<b>6,007</b>	<b>41,048</b>	<b>40,010</b>	<b>6,012</b>	<b>46,022</b>
34 Tile drains, drainage ditches, storm sewers .....	4,287	1,041	5,328	3,426	1,157	4,583	4,475	1,240	5,715
35 Waterworks systems and connections .....	17,247	2,026	19,273	15,160	2,616	17,776	14,313	2,691	17,004
36 Sewage systems and connections .....	17,872	1,570	19,442	13,116	1,718	14,834	17,940	1,794	19,734
37 Pumping stations, water .....	2,827	345	3,172	2,797	294	3,091	2,449	267	2,716
38 Water storage tanks .....	177	324	501	542	222	764	833	20	853
<b>Dams and Irrigation</b> .....	<b>3,575</b>	<b>885</b>	<b>4,460</b>	<b>2,917</b>	<b>560</b>	<b>3,477</b>	<b>7,062</b>	<b>515</b>	<b>7,577</b>
39 Dams and reservoirs .....	2,778	629	3,407	2,873	559	3,432	5,758	514	6,272
40 Irrigation and land reclamation projects .....	797	256	1,053	44	1	45	1,304	1	1,305
<b>Electric Power Construction</b> .....	<b>126,863</b>	<b>13,505</b>	<b>140,368</b>	<b>200,738</b>	<b>18,486</b>	<b>219,244</b>	<b>197,645</b>	<b>20,353</b>	<b>217,998</b>
41 Central electric stations, power plants, distribution lines .....	126,241	13,067	139,308	200,113	18,175	218,288	193,825	20,024	213,849
42 Street lighting .....	622	438	1,060	645	311	956	3,820	329	4,149
<b>Railway, Telephone and Telegraph</b> .....	<b>29,609</b>	<b>55,240</b>	<b>84,849</b>	<b>30,547</b>	<b>59,886</b>	<b>90,433</b>	<b>35,351</b>	<b>58,752</b>	<b>94,103</b>
43 Railway track laying and surfacing .....	2,223	18,823	21,046	2,903	22,935	25,838	4,329	22,493	26,822
44 Roadway maintenance, track .....	4,186	24,114	28,300	3,012	24,333	27,345	3,842	23,261	27,103
45 Signals and interlockers .....	1,794	1,421	3,215	1,277	1,546	2,823	1,239	1,489	2,728
46 Telegraph and telephone lines, underground and marine cables .....	19,938	8,167	28,105	22,727	9,505	32,232	25,417	9,935	35,352
47 Fences, snowshed, signs .....	1,341	2,534	3,875	572	1,540	2,112	509	1,545	2,054
48 Road or highway surfacing and maintenance by railway companies .....	127	181	308	56	27	83	15	29	44
<b>Gas and Oil Facilities</b> .....	<b>46,555</b>	<b>4,880</b>	<b>51,435</b>	<b>38,167</b>	<b>5,770</b>	<b>43,937</b>	<b>14,113</b>	<b>5,583</b>	<b>19,696</b>
49 Gas mains and services .....	—	—	—	1,705	601	2,306	1,429	643	2,072
50 Pumping stations, oil .....	1,281	1	1,282	505	228	733	1,476	161	1,637
51 Pumping stations, gas .....	48	12	60	84	1	85	137	1	138
52 Oil storage tanks .....	6,866	474	7,340	4,928	382	5,310	3,038	535	3,573
53 Gas storage tanks .....	1,662	555	2,217	1,770	66	1,836	574	231	805
54 Natural gas plants .....	2	36	38	1	1	2	1	1	2
55 Oil pipe lines .....	19,446	187	19,633	8,872	505	9,377	484	540	1,024
56 Gas pipe lines .....	2,133	555	2,688	729	226	955	1,351	237	1,588
57 Oil wells .....	48	2	50	444	5	449	682	6	688
58 Gas wells .....	933	156	1,089	1,376	210	1,586	1,042	223	1,265
59 Oil refineries .....	14,136	2,902	17,038	17,753	3,545	21,298	3,899	3,005	6,904
<b>Marine Construction</b> .....	<b>9,680</b>	<b>4,423</b>	<b>14,103</b>	<b>9,401</b>	<b>3,681</b>	<b>13,082</b>	<b>19,318</b>	<b>3,588</b>	<b>22,906</b>
60 Docks, wharves, piers, breakwaters .....	4,420	1,839	6,259	4,035	1,690	5,725	6,437	1,729	8,166
61 Retaining walls, embankments, ripraping .....	392	235	627	498	175	673	376	165	541
62 Canals and waterways .....	833	1,320	2,153	663	953	1,616	692	902	1,594
63 Dredging and pile driving .....	2,507	767	3,274	3,024	574	3,598	10,455	546	11,001
64 Dyke construction .....	378	41	419	218	94	312	107	84	191
65 Logging booms .....	179	109	288	110	75	185	341	44	385
66 Other marine construction .....	971	112	1,083	853	120	973	910	118	1,028
<b>Other Engineering Construction</b> .....	<b>8,295</b>	<b>3,810</b>	<b>12,105</b>	<b>8,456</b>	<b>2,013</b>	<b>10,469</b>	<b>8,681</b>	<b>1,796</b>	<b>10,477</b>
67 Incinerator construction .....	718	129	847	647	139	786	745	151	896
68 Park systems, landscaping, sodding, etc. ....	1,986	956	2,942	2,058	1,039	3,097	2,374	1,018	3,392
69 Structural steel erection .....	815	—	815	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	44	142	186	40	112	152	38	121	159
71 Mineshafts and other below surface workings .....	2,971	121	3,092	3,805	258	4,063	3,397	147	3,544
72 Other engineering construction .....	1,761	2,462	4,223	1,906	465	2,371	2,127	359	2,486

**TABLE 22. Prairie Provinces**  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>	<b>682,160</b>	<b>196,523</b>	<b>878,683</b>	<b>790,627</b>	<b>207,342</b>	<b>997,969</b>	<b>876,316</b>	<b>207,337</b>	<b>1,083,653</b>
<b>Total Building Construction .....</b>	<b>364,036</b>	<b>97,735</b>	<b>461,771</b>	<b>426,388</b>	<b>103,386</b>	<b>529,774</b>	<b>425,962</b>	<b>104,208</b>	<b>530,170</b>
<b>Residential .....</b>	<b>143,700</b>	<b>42,300</b>	<b>186,000</b>	<b>206,400</b>	<b>42,100</b>	<b>248,500</b>	<b>192,000</b>	<b>44,100</b>	<b>236,100</b>
1 Dwellings, single, double, duplexes and apartments.....	143,700	42,300	186,000	206,400	42,100	248,500	192,000	44,100	236,100
<b>Industrial .....</b>	<b>58,067</b>	<b>17,851</b>	<b>75,918</b>	<b>54,383</b>	<b>17,418</b>	<b>71,801</b>	<b>48,420</b>	<b>16,507</b>	<b>64,927</b>
2 Factories, plants, workshops .....	29,715	4,249	33,964	26,237	4,237	30,474	21,071	4,390	25,461
3 Warehouses, storehouses, refrigerated storage, etc. ....	12,109	2,277	14,386	15,301	1,880	17,181	18,274	1,660	19,934
4 Grain elevators .....	8,760	4,095	12,855	7,655	3,446	11,101	5,339	3,200	8,539
5 Mine and mine mill buildings.....	4,016	580	4,596	1,800	593	2,393	388	544	932
6 Railway stations, works offices, roadway buildings.....	1,814	3,849	5,663	1,755	3,887	5,642	1,481	3,518	4,999
7 Railway shops, engine houses, water and fuel stations.....	1,653	2,801	4,454	1,635	3,375	5,010	1,867	3,195	5,062
<b>Commercial .....</b>	<b>93,433</b>	<b>30,073</b>	<b>123,506</b>	<b>102,506</b>	<b>32,943</b>	<b>135,449</b>	<b>108,004</b>	<b>33,060</b>	<b>141,064</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins .....	12,017	2,123	14,140	13,748	2,844	16,592	4,281	2,486	6,767
9 Office buildings.....	15,049	3,426	18,475	14,410	4,363	18,773	21,407	3,906	25,313
10 Stores, retail and wholesale, canteens, commissaries .....	12,099	2,726	14,825	12,881	2,333	15,214	23,728	2,297	26,025
11 Garages and service stations .....	3,735	1,464	5,199	6,087	1,563	7,650	5,846	1,531	7,377
12 Theatres, arenas, amusement and recreational buildings.....	2,509	247	2,756	4,644	289	4,933	2,568	272	2,840
13 Farm buildings (excluding dwellings) .....	34,298	19,634	53,932	36,320	20,784	57,104	34,509	21,743	56,252
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	4,862	46	4,908	7,024	226	7,250	7,706	313	8,019
15 Aeroplane hangars.....	8,747	152	6,899	6,781	355	7,136	6,361	311	6,672
16 Passenger terminals, bus, boat or air .....	23	12	35	65	26	91	206	20	226
17 Laundries and dry cleaning establishments ..	94	243	337	546	160	706	1,392	181	1,573
<b>Institutional.....</b>	<b>38,851</b>	<b>5,608</b>	<b>44,459</b>	<b>41,529</b>	<b>7,662</b>	<b>49,191</b>	<b>51,510</b>	<b>7,752</b>	<b>59,262</b>
18 Schools and other educational buildings .....	20,024	2,802	22,826	19,923	3,995	23,918	22,647	4,122	26,769
19 Churches and other religious buildings .....	1,932	449	2,381	4,191	857	5,048	4,071	600	4,671
20 Hospitals, sanatoria, clinics, first-aid stations, etc.....	13,196	1,944	15,140	13,810	2,214	16,024	20,962	2,313	23,275
21 Other institutional buildings .....	3,699	413	4,112	3,605	596	4,201	3,830	717	4,547
<b>Other Building Construction .....</b>	<b>29,985</b>	<b>1,903</b>	<b>31,888</b>	<b>21,570</b>	<b>3,263</b>	<b>24,833</b>	<b>26,028</b>	<b>2,789</b>	<b>28,817</b>
22 Armouries, barracks, drill halls, etc.....	28,316	1,289	29,605	20,696	2,704	23,400	19,452	2,331	21,783
23 Bunkhouses, dormitories, cookeries, residence buildings .....	1,549	500	2,049	689	391	1,080	6,391	219	6,610
24 Other building construction .....	120	114	234	185	168	353	185	239	424
<b>Total Engineering Construction .....</b>	<b>318,124</b>	<b>98,788</b>	<b>416,912</b>	<b>364,239</b>	<b>103,956</b>	<b>468,195</b>	<b>450,354</b>	<b>103,129</b>	<b>553,483</b>
<b>Road, Highway, Bridge and Aerodrome Construction.....</b>	<b>87,620</b>	<b>21,632</b>	<b>109,252</b>	<b>91,679</b>	<b>22,010</b>	<b>113,689</b>	<b>100,635</b>	<b>23,771</b>	<b>124,406</b>
25 Hard surfaced or paved streets, highways, parking lots, etc.....	27,854	3,302	31,156	31,886	2,521	34,407	34,816	2,443	37,259
26 Gravel or stone streets, highways, roads, parking lots, etc.....	21,153	1,158	22,311	24,311	1,157	25,468	26,856	1,143	27,999
27 Dirt, clay or other streets, roads, parking lots, etc.....	3,896	372	4,268	4,114	222	4,336	4,643	221	4,864
28 Grading, scraping, oiling, filling .....	13,247	10,785	24,032	12,953	11,551	24,504	14,640	13,452	28,092
29 Sidewalks, paths .....	4,414	601	5,015	4,140	269	4,409	4,858	273	5,131
30 Bridges, trestles, culverts, overpasses, etc. ....	6,701	4,885	11,586	7,479	5,705	13,184	8,118	5,667	13,785
31 Tunnels and subways .....	1,338	164	1,502	1,575	137	1,712	1,822	120	1,942
32 Highway and roadside maintenance, guardrails .....	211	304	515	224	322	546	234	339	573
33 Aerodromes, landing fields, runways, tarmac .....	8,806	61	8,867	4,997	126	5,123	4,648	113	4,761

**TABLE 22. Prairie Provinces — Concluded**  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	<b>33,983</b>	<b>5,744</b>	<b>39,729</b>	<b>28,860</b>	<b>4,518</b>	<b>33,378</b>	<b>37,567</b>	<b>5,144</b>	<b>42,711</b>
34 Tile drains, drainage ditches, storm sewers ..	4,937	677	5,614	5,038	474	5,512	5,944	435	6,379
35 Waterworks systems and connections .....	16,228	1,515	17,743	10,630	1,872	12,502	17,907	2,598	20,505
36 Sewage systems and connections .....	11,865	2,218	14,083	11,408	1,086	12,494	12,518	1,099	13,617
37 Pumping stations, water .....	836	626	1,462	1,583	524	2,107	727	464	1,191
38 Water storage tanks .....	119	708	827	201	562	763	471	548	1,019
<b>Dams and Irrigation</b> .....	<b>15,601</b>	<b>1,963</b>	<b>17,564</b>	<b>15,271</b>	<b>3,115</b>	<b>18,386</b>	<b>14,317</b>	<b>2,986</b>	<b>17,303</b>
39 Dams and reservoirs .....	5,458	578	6,036	8,816	2,314	11,130	8,136	2,204	10,340
40 Irrigation and land reclamation projects .....	10,143	1,385	11,528	6,455	801	7,256	6,181	782	6,963
<b>Electric Power Construction</b> .....	<b>37,040</b>	<b>3,612</b>	<b>40,652</b>	<b>26,952</b>	<b>5,380</b>	<b>32,332</b>	<b>27,884</b>	<b>5,372</b>	<b>33,456</b>
41 Central electric stations, power plants, distribution lines .....	36,801	3,485	40,286	26,546	5,178	31,724	27,455	5,373	32,828
42 Street lighting .....	239	127	366	406	202	608	429	199	628
<b>Railway, Telephone and Telegraph</b> .....	<b>24,698</b>	<b>56,896</b>	<b>81,594</b>	<b>23,698</b>	<b>60,508</b>	<b>84,206</b>	<b>26,785</b>	<b>55,906</b>	<b>82,691</b>
43 Railway track laying and surfacing .....	1,266	18,757	20,023	1,347	21,755	23,102	1,569	20,100	21,669
44 Roadway maintenance, track .....	4,299	25,872	30,171	4,013	27,717	31,730	4,305	24,950	29,255
45 Signals and interlockers .....	1,410	1,303	2,713	1,299	1,408	2,707	1,226	1,242	2,468
46 Telegraph and telephone lines, underground and marine cables .....	14,889	6,418	21,307	16,562	8,375	24,937	19,299	8,455	27,754
47 Fences, snowsheds, signs .....	2,681	4,287	6,968	412	1,205	1,617	372	1,108	1,480
48 Road or highway surfacing and maintenance by railway companies .....	153	259	412	65	48	113	14	51	65
<b>Gas and Oil Facilities</b> .....	<b>114,463</b>	<b>6,666</b>	<b>121,129</b>	<b>170,599</b>	<b>6,460</b>	<b>177,059</b>	<b>235,764</b>	<b>7,973</b>	<b>243,739</b>
49 Gas mains and services .....	—	—	—	7,139	406	7,545	4,275	127	4,402
50 Pumping stations, oil .....	7,505	720	8,225	5,031	661	5,692	9,379	721	10,100
51 Pumping stations, gas .....	4	8	12	281	4	285	50	4	54
52 Oil storage tanks .....	3,389	388	3,777	7,598	319	7,917	7,169	316	7,485
53 Gas storage tanks .....	999	—	999	568	—	568	1,114	2	1,116
54 Natural gas plants .....	729	80	809	1,578	200	1,778	8,766	169	8,935
55 Oil pipe lines .....	20,184	342	20,526	26,041	378	26,419	40,072	826	40,898
56 Gas pipe lines .....	4,425	461	4,886	25,104	233	25,337	24,154	94	24,248
57 Oil wells .....	65,524	1,227	66,751	78,344	1,365	79,709	113,695	2,886	116,581
58 Gas wells .....	5,953	135	6,088	6,533	53	6,586	6,810	18	6,828
59 Oil refineries .....	5,751	3,305	9,056	12,382	2,841	15,223	20,280	2,812	23,092
<b>Marine Construction</b> .....	<b>735</b>	<b>163</b>	<b>900</b>	<b>497</b>	<b>303</b>	<b>800</b>	<b>453</b>	<b>268</b>	<b>721</b>
60 Docks, wharves, piers breakwaters .....	348	58	406	173	107	280	158	95	253
61 Retaining walls, embankments, ripraping .....	66	—	66	49	—	49	43	—	43
62 Canals and waterways .....	4	45	49	—	99	99	—	85	85
63 Dredging and pile driving .....	226	24	250	168	40	208	150	33	183
64 Dyke construction .....	72	32	104	81	40	121	91	42	133
65 Logging booms .....	—	—	—	—	6	6	—	4	4
66 Other marine construction .....	19	6	25	26	11	37	11	9	20
<b>Other Engineering Construction</b> .....	<b>3,982</b>	<b>2,110</b>	<b>6,092</b>	<b>6,683</b>	<b>1,662</b>	<b>8,345</b>	<b>6,949</b>	<b>1,507</b>	<b>8,456</b>
67 Incinerator construction .....	647	31	678	744	21	765	866	23	889
68 Park systems, landscaping, sodding, etc. ....	858	257	1,115	844	146	990	971	143	1,114
69 Structural steel erection .....	171	—	171	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	181	161	342	160	131	291	152	124	276
71 Mineshafts and other below surface workings .....	1,462	27	1,489	4,520	1,177	5,697	4,797	1,080	5,877
72 Other engineering construction .....	663	1,634	2,297	415	187	602	163	137	300

**TABLE 23. British Columbia**  
(Thousands of Dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Total Value of Construction .....</b>	<b>419,289</b>	<b>94,684</b>	<b>513,973</b>	<b>467,367</b>	<b>96,452</b>	<b>563,819</b>	<b>405,591</b>	<b>97,038</b>	<b>502,629</b>
<b>Total Building Construction .....</b>	<b>191,552</b>	<b>43,716</b>	<b>235,268</b>	<b>209,874</b>	<b>44,448</b>	<b>254,322</b>	<b>215,606</b>	<b>45,591</b>	<b>261,197</b>
<b>Residential .....</b>	<b>81,800</b>	<b>19,300</b>	<b>101,100</b>	<b>89,900</b>	<b>20,900</b>	<b>110,800</b>	<b>98,200</b>	<b>22,100</b>	<b>120,300</b>
1 Dwellings, single, double, duplexes and apartments .....	81,800	19,300	101,100	89,900	20,900	110,800	98,200	22,100	120,300
<b>Industrial .....</b>	<b>44,248</b>	<b>9,867</b>	<b>54,115</b>	<b>47,009</b>	<b>9,013</b>	<b>56,022</b>	<b>29,015</b>	<b>8,550</b>	<b>37,565</b>
2 Factories, plants, workshops .....	36,300	6,101	42,401	29,087	5,552	34,639	14,708	5,393	20,101
3 Warehouses, storehouses, refrigerated storage, etc. ....	2,865	1,236	4,101	10,877	1,096	11,973	10,447	965	11,412
4 Grain elevators .....	103	267	370	40	111	151	3	102	105
5 Mine and mine mill buildings .....	3,441	514	3,955	3,258	530	3,788	1,652	523	2,175
6 Railway stations, works offices, roadway buildings .....	729	1,075	1,804	1,110	1,054	2,164	1,111	941	2,052
7 Railway shops, engine houses, water and fuel stations .....	810	674	1,484	2,637	670	3,307	1,094	626	1,720
<b>Commercial .....</b>	<b>26,485</b>	<b>7,099</b>	<b>33,584</b>	<b>32,251</b>	<b>7,851</b>	<b>40,102</b>	<b>40,146</b>	<b>8,283</b>	<b>48,429</b>
8 Hotels, clubs, restaurants, cafeterias, tourist cabins .....	682	926	1,608	683	1,411	2,094	719	1,411	2,130
9 Office buildings .....	4,718	1,897	6,615	6,696	1,813	8,509	9,033	1,753	10,786
10 Stores, retail and wholesale, canteens, commissaries .....	3,721	989	4,710	6,556	1,258	7,814	13,836	1,719	15,555
11 Garages and service stations .....	2,827	957	3,784	2,731	736	3,467	2,777	755	3,532
12 Theatres, arenas, amusement and recreational buildings .....	1,097	112	1,209	1,445	148	1,593	1,130	187	1,317
13 Farm buildings (excluding dwellings) .....	3,285	1,737	5,022	3,196	1,837	5,033	2,953	1,918	4,871
14 Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	8,923	79	8,902	9,391	300	9,691	8,547	312	8,859
15 Aeroplane hangars .....	964	323	1,287	907	103	1,010	856	100	956
16 Passenger terminals, bus, boat or air .....	337	5	342	411	154	565	234	44	278
17 Laundries and dry cleaning establishments .....	31	74	105	235	91	326	61	84	145
<b>Institutional .....</b>	<b>31,906</b>	<b>5,300</b>	<b>37,206</b>	<b>34,799</b>	<b>5,581</b>	<b>40,380</b>	<b>40,024</b>	<b>5,634</b>	<b>45,658</b>
18 Schools and other educational buildings .....	16,479	2,038	18,517	17,950	1,911	19,861	20,009	1,952	21,961
19 Churches and other religious buildings .....	650	211	861	1,085	105	1,190	1,771	113	1,884
20 Hospitals, sanatoria, clinics, first-aid stations, etc. ....	11,158	1,347	12,505	12,295	1,861	14,156	14,580	1,864	16,444
21 Other institutional buildings .....	3,619	1,704	5,323	3,469	1,704	5,173	3,664	1,705	5,369
<b>Other Building Construction .....</b>	<b>7,113</b>	<b>2,150</b>	<b>9,263</b>	<b>5,915</b>	<b>1,103</b>	<b>7,018</b>	<b>8,221</b>	<b>1,024</b>	<b>9,245</b>
22 Armouries, barracks, drill halls, etc. ....	5,463	345	5,808	5,153	312	5,465	4,864	303	5,167
23 Bunkhouses, dormitories, cookeries, residence buildings .....	1,608	1,805	3,413	721	791	1,512	3,318	721	4,039
24 Other building construction .....	42	-	42	41		41	39	-	39
<b>Total Engineering Construction .....</b>	<b>227,737</b>	<b>50,968</b>	<b>278,705</b>	<b>257,493</b>	<b>52,004</b>	<b>309,497</b>	<b>189,985</b>	<b>51,447</b>	<b>241,432</b>
<b>Road, Highway, Bridge and Aerodrome Construction .....</b>	<b>52,024</b>	<b>20,465</b>	<b>72,489</b>	<b>61,693</b>	<b>21,050</b>	<b>82,743</b>	<b>48,611</b>	<b>20,785</b>	<b>69,396</b>
25 Hard surfaced or paved streets, highways, parking lots, etc. ....	20,483	9,877	30,360	38,092	9,869	47,961	24,467	9,843	34,310
26 Gravel or stone streets, highways, roads, parking lots, etc. ....	19,675	4,806	24,481	11,143	5,557	16,700	11,655	5,469	17,124
27 Dirt, clay or other streets, roads, parking lots, etc. ....	2,218	1,049	3,267	2,304	875	3,179	2,420	860	3,280
28 Grading, scraping, oiling, filling .....	486	818	1,304	1,184	866	2,050	955	915	1,870
29 Sidewalks, paths .....	979	391	1,370	1,506	422	1,928	1,465	414	1,879
30 Bridges, trestles, culverts, overpasses, etc. ....	5,847	2,972	8,819	5,188	3,043	8,231	5,513	2,875	8,388
31 Tunnels and subways .....	59	59	118	60	51	111	42	46	88
32 Highway and roadside maintenance, guard rails .....	13	307	320	75	356	431	72	352	424
33 Aerodromes, landing fields, runways, tarmac .....	2,264	186	2,450	2,141	11	2,152	2,022	11	2,033

TABLE 23. British Columbia — Concluded  
(Thousands of dollars)

Type of Structure	1952			1953			1954		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
<b>Waterworks and Sewage Systems</b> .....	<b>8,696</b>	<b>2,647</b>	<b>11,343</b>	<b>10,874</b>	<b>2,624</b>	<b>13,498</b>	<b>10,345</b>	<b>2,761</b>	<b>13,106</b>
34 Tile drains, drainage ditches, storm sewers .....	526	789	1,315	547	604	1,151	790	597	1,387
35 Waterworks systems and connections .....	2,685	455	3,140	4,911	1,294	6,205	4,229	1,429	5,658
36 Sewage systems and connections .....	3,471	532	4,003	4,688	609	5,297	4,994	631	5,625
37 Pumping stations, water .....	512	124	636	551	111	662	168	103	271
38 Water storage tanks .....	1,502	747	2,249	177	6	183	164	1	165
<b>Dams and Irrigation</b> .....	<b>30,377</b>	<b>385</b>	<b>30,762</b>	<b>29,759</b>	<b>222</b>	<b>29,981</b>	<b>3,540</b>	<b>259</b>	<b>3,799</b>
39 Dams and reservoirs .....	29,069	175	29,244	29,045	172	29,217	2,756	210	2,966
40 Irrigation and land reclamation projects .....	1,308	210	1,518	714	50	764	784	49	833
<b>Electric Power Construction</b> .....	<b>80,013</b>	<b>3,028</b>	<b>83,041</b>	<b>86,154</b>	<b>2,641</b>	<b>88,795</b>	<b>58,346</b>	<b>2,912</b>	<b>61,258</b>
41 Central electric stations, power plants, distribution lines .....	79,924	2,923	82,847	86,144	2,575	88,719	58,336	2,848	61,184
42 Street lighting .....	89	105	194	10	66	76	10	64	74
<b>Railway, Telephone and Telegraph</b> .....	<b>11,371</b>	<b>18,936</b>	<b>30,307</b>	<b>12,750</b>	<b>20,023</b>	<b>32,773</b>	<b>15,812</b>	<b>18,580</b>	<b>34,392</b>
43 Railway track laying and surfacing .....	3,840	6,254	10,094	1,985	8,094	10,079	2,269	7,266	9,535
44 Roadway maintenance, track .....	1,269	8,410	9,679	1,946	7,744	9,690	2,275	7,078	9,353
45 Signals and interlockers .....	568	418	986	962	430	1,392	1,052	381	1,433
46 Telegraph and telephone lines, underground and marine cables .....	5,241	2,994	8,235	7,632	3,223	10,855	9,949	3,369	13,318
47 Fences, snowsheds, signs .....	184	747	931	191	515	706	235	486	721
48 Road or highway surfacing and maintenance by railway companies .....	269	113	382	34	17	51	32	—	32
<b>Gas and Oil Facilities</b> .....	<b>28,636</b>	<b>731</b>	<b>29,367</b>	<b>44,178</b>	<b>1,237</b>	<b>45,415</b>	<b>44,585</b>	<b>2,028</b>	<b>46,613</b>
49 Gas mains and services .....	—	—	—	508	86	594	1,853	93	1,946
50 Pumping stations, oil .....	1,088	—	1,088	2,627	—	2,627	189	—	189
51 Pumping stations, gas .....	—	7	7	—	11	11	2	12	14
52 Oil storage tanks .....	304	55	359	5,167	441	5,608	3,074	248	3,322
53 Gas storage tanks .....	1,054	—	1,054	404	4	408	329	4	333
54 Natural gas plants .....	—	5	5	—	6	6	—	6	6
55 Oil pipe lines .....	22,861	4	22,865	23,250	288	23,538	967	1,007	1,974
56 Gas pipe lines .....	108	2	110	—	—	—	26,204	—	26,204
57 Oil wells .....	—	—	—	—	—	—	—	—	—
58 Gas wells .....	—	—	—	—	—	—	—	—	—
59 Oil refineries .....	3,221	658	3,879	12,222	401	12,623	11,967	658	12,625
<b>Marine Construction</b> .....	<b>12,897</b>	<b>3,506</b>	<b>16,403</b>	<b>9,336</b>	<b>3,041</b>	<b>12,377</b>	<b>6,852</b>	<b>3,062</b>	<b>9,914</b>
60 Docks, wharves, piers, breakwaters .....	6,984	2,356	9,340	8,014	1,875	9,889	5,955	1,884	7,839
61 Retaining walls, embankments, riprappling .....	1,132	68	1,200	389	76	465	347	105	452
62 Canals and waterways .....	105	15	120	99	14	113	93	14	107
63 Dredging and pile driving .....	4,417	964	5,381	171	896	1,067	146	871	1,017
64 Dyke construction .....	63	41	104	59	81	140	121	71	192
65 Logging booms .....	185	43	228	36	77	113	129	95	224
66 Other marine construction .....	11	19	30	568	22	590	61	22	83
<b>Other Engineering Construction</b> .....	<b>3,723</b>	<b>1,270</b>	<b>4,993</b>	<b>2,749</b>	<b>1,166</b>	<b>3,915</b>	<b>1,894</b>	<b>1,060</b>	<b>2,954</b>
67 Incinerator construction .....	12	2	14	68	20	88	9	4	13
68 Park systems, landscaping, sodding, etc. ....	566	643	1,209	671	701	1,372	648	703	1,351
69 Structural steel erection .....	24	—	24	—	—	—	—	—	—
70 Swimming pools, tennis courts, outdoor recreation facilities .....	14	81	95	39	90	129	11	87	98
71 Mineshafts and other below surface workings .....	2,323	61	2,384	1,864	278	2,142	1,182	200	1,382
72 Other engineering construction .....	784	483	1,267	107	77	184	44	66	110

**VALUE OF CONSTRUCTION WORK PERFORMED — PROVINCES 1952-1954<sup>1</sup>**

**TABLE 24. By Principal Types of Construction**  
(Thousands of dollars)

	1952			1953			1954		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
Canada .....	2,410,902	1,787,719	4,198,621	2,731,965	1,863,228	4,595,193	2,914,036	1,916,044	4,830,080
Newfoundland .....	44,253	30,117	74,370	42,985	25,292	68,277	43,487	26,765	70,252
Prince Edward Island .....	5,689	7,058	12,747	5,823	7,127	12,950	7,000	7,528	14,528
Nova Scotia .....	78,355	41,341	119,696	89,460	48,212	137,672	102,214	52,585	154,799
New Brunswick .....	48,065	40,517	88,582	51,907	43,848	95,755	60,809	46,941	107,750
Quebec .....	626,773	425,514	1,052,287	730,414	347,551	1,077,965	817,568	368,300	1,185,868
Ontario .....	910,728	547,555	1,458,283	1,027,280	613,506	1,640,786	1,091,591	619,010	1,710,801
Manitoba .....	115,410	83,280	198,690	126,499	91,808	218,307	126,343	94,294	220,637
Saskatchewan .....	110,948	89,813	200,761	127,177	94,232	221,409	127,069	118,698	245,767
Alberta .....	235,413	243,819	479,232	276,098	282,155	558,253	276,758	340,491	617,249
British Columbia .....	235,268	278,705	513,973	254,322	309,497	563,819	261,197	241,432	502,629

**TABLE 25. Dollar and Percentage Change by Principal Types of Construction**

	1953 minus 1952						1954 minus 1953					
	Building		Engineering		Total		Building		Engineering		Total	
	\$ Mill.	%	\$ Mill.	%	\$ Mill.	%	\$ Mill.	%	\$ Mill.	%	\$ Mill.	%
Canada .....	321	13.3	75	4.2	396	9.4	182	6.7	53	2.8	235	5.1
Newfoundland .....	- 1	- 2.3	- 5	- 16.7	- 6	- 8.1	0	0	2	8.0	2	2.9
Prince Edward Island .....	0	0	0	0	0	0	1	16.7	1	14.3	2	15.4
Nova Scotia .....	11	14.1	7	17.1	18	15.0	13	14.6	5	10.4	17	12.3
New Brunswick .....	4	8.3	3	7.3	7	7.9	9	17.3	3	6.8	12	12.5
Quebec .....	103	16.4	- 78	- 18.3	26	2.5	88	12.1	20	5.7	108	10.0
Ontario .....	116	12.7	66	12.0	183	12.6	65	6.3	5	0.8	70	4.3
Manitoba .....	11	9.6	9	10.8	19	9.5	0	0	2	2.2	3	1.4
Saskatchewan .....	18	14.4	4	4.4	20	10.0	0	0	25	26.6	25	11.3
Alberta .....	41	17.4	38	15.6	79	16.5	1	0.4	58	20.6	59	10.6
British Columbia .....	19	8.1	30	10.8	50	9.7	7	2.8	- 68	- 22.0	- 61	- 10.8

1. Actual 1952, Preliminary Actual 1953, Intentions 1954.

## 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 force of industrial concerns, institutions, governments and individuals, in addition to that done by general, trade and sub-contractors. 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 insurances, fuel, office expenses and taxes and usually provide a net profit. 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 given as 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

Prior to 1951 the construction statistical series was based entirely on compilations of data supplied by firms and individuals who performed the work. The statistics presented in this report are based largely on information received from firms and individuals paying for the work done. This fundamental change in the source of basic data virtually introduced a new series which appeared for the first time last year in the report entitled "Construction in Canada, 1951-1953".

The present source provides data on the total cost of a structure as indicated in the first paragraph of these notes under "Definitions". This ensures more realistic estimates of the total cost of construction work and, as well, follows the same concepts and definitions used in the construction estimates which appear in the reports "Private and Public Investment Outlook". For example, when this information was collected from construction contractors, it was necessary to provide them with an arbitrary definition of what was considered to be repair construction. In that instance, all work exceeding \$2,000 in value was classified as new construction. The present definition, although there are some exceptions, generally classifies as new, only those projects which are charged to the capital or fixed assets account of a firm. Also, in

previous construction surveys only the larger projects undertaken by organizations outside the construction industry with their own labour forces were covered. The present method of obtaining construction expenditures from all industries ensures more complete coverage in terms of the value of work performed.

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 census of 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, this is the new method 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, 72 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 18 to 22 of the report "Private and Public Investment in Canada, Outlook 1954".

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 was 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 production in 1951 of all the firms in each industry by the corresponding 1951 total for the firms reporting in the 1954 survey. In carrying out this procedure it has been assumed that the proportion of production of the reporting establishments in both 1951 and 1954 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 72.4 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 1953 preliminary actual figures and the 1954 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 1953 to 1954 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 based on information submitted directly by business or government agencies. Estimates of the value of residential construction for 1952 and 1953 were prepared by Central Mortgage and Housing Corporation. Appraisals of the probable volume of housing construction in 1954 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 and maintenance work likely to be undertaken in 1954.

#### **Salaries and Wages Paid and Cost of Materials Used**

The estimates of salaries and wages paid and the cost of materials used are derived from the application of ratios of these items to total value of work performed. The 1952 survey of construction contractors whose 1951 value of work exceeded \$50,000, provided the basic data for deriving the ratios applied to break down the total value of work done by contractors in the years 1952 to 1954. The ratios used to break down own account work were computed from information obtained in the capital expenditures and census of construction, government departments surveys, wherein the respondent was requested to provide data on the costs involved in such work.

#### **Average Numbers Employed**

Indirect methods were also used in estimating the average numbers employed. In the 1952 surveys, respondents were requested to report the average number of employees engaged in construction each month. They were advised on the form that one method of computing the average number of employees is to divide the number of working days in the month into the total number of man days worked by all employees in the month. The monthly averages of all reporting firms 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. The resulting figures therefore represent the number of employees working full time throughout the year. The total number on the payroll at any given time may, of course, be above or below the average. In arriving at the average number employed in 1953 and 1954, an average annual wage figure was computed from 1952, projected forward, and divided into the estimated total salary and wages for these years.



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