

11.—Detailed Estimates of Value of Construction Work Performed, by Type of Structure, 1951-53—concluded

| Type of Structure | 1951 | | | 1952 | | | 1953 | | |
|---|------------------|----------------|------------------|------------------|----------------|------------------|------------------|----------------|------------------|
| | New | Repair | Total | New | Repair | Total | New | Repair | Total |
| | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 | \$'000 |
| Engineering Construction—concluded | | | | | | | | | |
| Retaining walls, embankments, riprapping..... | 1,724 | 514 | 2,238 | 1,930 | 408 | 2,338 | 1,795 | 338 | 2,133 |
| Canals and waterways... | 2,024 | 659 | 2,683 | 2,508 | 296 | 2,804 | 2,507 | 255 | 2,762 |
| Dredging and pile driving | 4,288 | 1,458 | 5,746 | 5,604 | 868 | 6,472 | 4,053 | 764 | 4,817 |
| Dykes..... | 1,081 | 350 | 1,431 | 1,645 | 207 | 1,852 | 1,357 | 196 | 1,553 |
| Other marine construction..... | 570 | 407 | 977 | 1,961 | 525 | 2,486 | 1,034 | 507 | 1,541 |
| Aerodromes, landing fields, runways, tarmacs | 13,370 | 3,718 | 17,088 | 26,106 | 5,281 | 31,387 | 22,367 | 4,314 | 26,681 |
| Installation of machinery, boilers, etc..... | 2,044 | 1,076 | 3,120 | 8,228 | 982 | 9,210 | 10,459 | 927 | 11,386 |
| Park systems, landscaping, sodding, etc..... | 10,454 | 3,216 | 13,670 | 12,995 | 2,751 | 15,746 | 13,330 | 2,369 | 15,699 |
| Mine shafts and underground workings..... | 12,300 | 1,768 | 14,068 | 11,918 | 1,090 | 13,008 | 12,411 | 1,115 | 13,526 |
| All other engineering construction..... | 7,858 | 1,211 | 9,069 | 11,480 | 1,618 | 13,098 | 17,109 | 1,387 | 18,496 |
| Totals, Engineering Construction..... | 965,126 | 385,363 | 1,350,489 | 1,265,105 | 373,686 | 1,638,791 | 1,330,351 | 371,103 | 1,701,454 |
| Totals, Construction.. | 2,733,843 | 927,309 | 3,661,152 | 3,158,304 | 930,436 | 4,088,740 | 3,433,015 | 926,291 | 4,359,306 |

Summary statistics of the construction industry are shown by province and for contractors, utilities, governments and others in Table 12. While the estimates given for Canada as a whole may be considered as reasonably accurate, those given for individual provinces and by class of builder are only approximations. All of the estimates given for average numbers employed, salaries and wages paid, and cost of materials used are based on ratios of these items to total value of work performed which were derived from the 1951 Census of Construction and applied to the value of work figures obtained in the capital expenditures surveys. Although these ratios were calculated in some detail by type of industry, still further refinements are required to improve the estimates for provinces and class of builder. There are also some difficulties in obtaining the precise geographical location of projects undertaken or to be undertaken by large companies operating in a number of provinces. However, if used with these qualifications in mind the table provides useful estimates.

In using the employment data it is also of value to have a knowledge of the methods used in collecting the basic data on which the employment estimates are based. Respondents are requested to report the average number of employees engaged in construction each month. They are 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 are added and divided by twelve to compute the annual average. Thus, the resulting figures are representative of the total 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 this average.