

reasonably install a system of under-drains for storm-water only, usually a vitrified tile drain, of suitable capacity, laid at the edge of the roadway on each side of the street.

The following tables give reference data regarding the types of pavements laid in some of the leading Ontario towns and cities, the areas laid in 1915 and up to the end of 1915, costs per square yard, etc.:-

Table Showing Extent of Paving in the Cities and Towns in Ontario.

| Name of City or Town. | Class of Paving.                  | Class of Street.           | Year first laid. | Total Mileage laid to end of 1915. | Total Square Yards laid to end of 1915. | Total Mileage laid in 1915. | Total Square Yards laid in 1915. | Total Cost per Square Yard prior to 1915. | Foundation.         |                             | Surface.                    |                             |
|-----------------------|-----------------------------------|----------------------------|------------------|------------------------------------|-----------------------------------------|-----------------------------|----------------------------------|-------------------------------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|
|                       |                                   |                            |                  |                                    |                                         |                             |                                  |                                           | Thickness and Kind. | Cost per Square Yard, 1915. | Thickness including binder. | Cost per Square Yard, 1915. |
| Fort William**        | Asphaltic Concrete                | Business and Residential   | 1914             | 2.16                               | 57,798                                  |                             |                                  | \$2.60                                    | 6 in. Concrete      |                             | 3 inches                    |                             |
| "                     | Tar Coated Macadam                | Residential                | 1911             | 5.26                               | 56,117                                  | 0.77                        | 9,730                            | 1.32                                      | 8 in. Rubble        | \$0.56                      | 3 1/2 "                     | \$0.65                      |
| "                     | Asphalt Block                     | Business                   | 1906             | 1.67                               | 47,383                                  |                             |                                  | 3.98                                      | 8 in. Concrete      |                             | 4 "                         |                             |
| "                     | Rocmac                            | Residential                | 1911             | 1.48                               | 24,523                                  |                             |                                  | 1.55                                      | 8 in. Rubble        |                             | 3 "                         |                             |
| "                     | Sheet Asphalt                     | Business                   | 1911             | 0.59                               | 14,613                                  |                             |                                  | 3.26                                      | 8 in. Concrete      |                             | 3 "                         |                             |
| "                     | Bitulithic                        | Business                   | 1911             | 0.24                               | 7,466                                   |                             |                                  | 3.35                                      | 8 in. "             |                             | 2 inches                    |                             |
| "                     | Tar Filled Macadam                | Residential                | 1913             | 0.07                               | 724                                     |                             |                                  | 2.00                                      |                     |                             | 3 "                         |                             |
| Total                 |                                   |                            |                  | 11.47                              | 208,624                                 | 0.77                        | 9,730                            |                                           |                     |                             |                             |                             |
| Windsor               | Concrete                          | Residential                | 1907             | 28.74                              | 346,843                                 | 1.35                        | 18,986                           | 1.15                                      |                     |                             | 7 inches                    | 1.35                        |
| "                     | Asphalt Block                     | Business and Residential   | 1903             | 3.70                               | 113,187                                 | 0.13                        | 2,480                            | 2.70                                      | 6 in. Concrete      | 0.70                        | 4 "                         | 1.79                        |
| "                     | Cedar Block                       | On heavy grades from Wharf | 1906             | 0.53                               | 8,040                                   | 0.03                        | 501                              | 1.90                                      | 6 in. "             | 0.70                        | 5 "                         | 1.65                        |
| Total                 |                                   |                            |                  | 32.97                              | 468,070                                 | 1.51                        | 21,967                           |                                           |                     |                             |                             |                             |
| Peterborough          | Asphaltic Concrete                | Business and Residential   | 1913             | 4.21                               | 78,383                                  | 1.86                        | 33,920                           | 2.06                                      | 5 in. Concrete      | 0.64                        | 2 1/2 inches                | 1.30                        |
| "                     | Bitulithic                        | Business                   | 1914             | 0.34                               | 2,494                                   |                             |                                  | 2.24                                      | 5 in. "             |                             | 2 3/4 "                     |                             |
| "                     | Concrete                          | Residential                | 1912             | 0.07                               | 975                                     |                             |                                  | 0.98                                      |                     |                             | 6 "                         |                             |
| Total                 |                                   |                            |                  | 4.62                               | 81,852                                  | 1.86                        | 33,920                           |                                           |                     |                             |                             |                             |
| Kingston*             | Asphalt Block                     | Business and Residential   | 1911             | 1.53                               | 25,458                                  |                             |                                  | 2.75                                      | 4 in. Concrete      |                             | 4 inches                    |                             |
| "                     | Bituminous Concrete               | Residential                | 1911             | 1.25                               | 17,800                                  | 0.36                        | 3,740                            | 0.90                                      | 5 in. Macadam       |                             | 3 "                         | 0.72                        |
| "                     | Asphaltic Concrete                | Business                   | 1914             | 0.55                               | 14,200                                  |                             |                                  | 2.35                                      | 4 in. Concrete      | 0.60                        | 3 "                         |                             |
| Total                 |                                   |                            |                  | 3.33                               | 57,458                                  | 0.36                        | 3,740                            |                                           |                     |                             |                             |                             |
| Kitchener             | Tar Filled Macadam                | Residential                | 1910             | 6.42                               | 85,691                                  | 1.70                        | 22,445                           | 1.14                                      | 5 in. Macadam       | 0.55                        | 3 inches                    | 0.48                        |
| "                     | Bitulithic                        | Business and Residential   | 1910             | 3.02                               | 60,459                                  |                             |                                  | 2.41                                      | 5 in. "             |                             | 2 1/2 "                     |                             |
| "                     | Wood Block                        | Business                   | 1914             | 0.44                               | 10,740                                  |                             |                                  | 3.10                                      | 6 in. "             |                             | 4 "                         |                             |
| "                     | Concrete                          | Business                   | 1915             | 0.20                               | 2,868                                   | 0.20                        | 2,868                            |                                           |                     |                             | 7 "                         | 1.60                        |
| Total                 |                                   |                            |                  | 10.08                              | 159,758                                 | 1.90                        | 25,313                           |                                           |                     |                             |                             |                             |
| Stratford             | Tar Filled Macadam                | Residential                | 1909             | 4.42                               | 53,151                                  | 1.45                        | 18,715                           | \$1.35                                    | 5 in. Concrete      | \$0.70                      | 3 inches                    | \$0.47                      |
| "                     | Westrumite                        | "                          | 1909             | 3.56                               | 40,634                                  |                             |                                  | 2.00                                      | 5 in. "             |                             | 2 "                         |                             |
| "                     | Asphalt Block                     | Business                   | 1906             | 1.05                               | 30,954                                  |                             |                                  |                                           | 6 in. "             |                             | 4 "                         |                             |
| "                     | Brick                             | "                          | 1906             | 2.12                               | 30,287                                  |                             |                                  | 2.45                                      | 5 in. "             |                             | 4 "                         |                             |
| "                     | Concrete                          | Residential                | 1914             | 0.50                               | 6,404                                   |                             |                                  | 1.30                                      |                     |                             | 7 "                         |                             |
| Total                 |                                   |                            |                  | 11.65                              | 161,430                                 | 1.45                        | 18,715                           |                                           |                     |                             |                             |                             |
| Chatham*              | Bitulithic                        | Business and Residential   | 1903             | 5.61                               | 79,708                                  |                             |                                  | 2.45                                      | 5 in. Concrete      |                             | 2 1/2 inches                |                             |
| "                     | Brick                             | Business and Residential   | 1903             | 3.68                               | 56,261                                  |                             |                                  | 2.50                                      | 5 in. "             |                             | 4 "                         |                             |
| "                     | Asphalt Block                     | Business                   | 1903             | 2.29                               | 37,142                                  |                             |                                  | 2.60                                      | 5 in. "             |                             | 4 "                         |                             |
| "                     | Concrete                          | Residential                | 1908             | 2.14                               | 28,185                                  | 0.64                        | 8,058                            | 1.20                                      |                     |                             | 7 "                         | 1.12                        |
| Total                 |                                   |                            |                  | 13.72                              | 201,296                                 | 0.64                        | 8,058                            |                                           |                     |                             |                             |                             |
| Belleville†           | Asphaltic Concrete                | Business                   | 1914             | 0.70                               | 17,660                                  |                             |                                  | 2.38                                      | 5 in. Concrete      |                             | 3 inches                    |                             |
| "                     | Rocmac                            | Residential                | 1915             | 0.39                               | 7,233                                   | 0.39                        | 7,233                            |                                           | 5 in. Macadam       | \$0.30                      | 4 "                         | 0.70                        |
| "                     | Tar Filled Macadam                | Residential                | 1915             | 0.17                               | 2,222                                   | 0.17                        | 2,222                            |                                           | 5 in. "             | 0.40                        | 3 "                         | 0.60                        |
| Total                 |                                   |                            |                  | 1.26                               | 27,115                                  | 0.56                        | 9,455                            |                                           |                     |                             |                             |                             |
| Sault Ste. Marie†     | Asphaltic Concrete                | Business                   | 1913             | 2.18                               | 38,365                                  |                             |                                  | 2.27                                      | 5 in. Concrete      |                             | 3 inches                    |                             |
| "                     | Concrete                          | Business and Residential   | 1914             | 0.70                               | 14,218                                  | 0.62                        | 12,845                           | 1.37                                      |                     |                             | 7 "                         | 1.37                        |
| "                     | Bitulithic                        | Residential                | 1914             | 0.54                               | 10,766                                  | 0.21                        | 4,970                            | 2.40                                      | 5 in. "             | 0.90                        | 2 "                         | 1.50                        |
| "                     | Brick                             | "                          | 1912             | 0.45                               | 9,748                                   | 0.09                        | 1,800                            | 2.89                                      | 6 in. "             | 1.10                        | 4 "                         | 2.08                        |
| "                     | Asphalt Surface, on concrete base | "                          | 1915             | 0.04                               | 766                                     | 0.04                        | 766                              |                                           | 7 in. "             | 1.37                        | 1 "                         | 0.22                        |
| Total                 |                                   |                            |                  | 3.91                               | 73,863                                  | 0.96                        | 20,381                           |                                           |                     |                             |                             |                             |

\*\*Cost includes grading. \*Kingston. In 1915, 5,000 sq. yds. water bound macadam built, oil treated. †Chatham. 2,212 sq. yd. concrete on lanes in 1915. ‡23,000 sq. yds. oil bound macadam built in 1915 besides above-mentioned paving. †Minimum width of 1915 pavements, 30 ft. between curbs. One concrete pavement received a surface treatment of hot bituminous material and trap rock screenings.