

On the Atlantic side it appears that the red pine and hemlock of Canada offer more resistance to indentation than those of the United States; the tamarack, white spruce, black spruce, banksian pine, white pine and white cedar of Canada offer less resistance. On the Pacific coast the western white spruce, white mountain pine and Douglas fir of Canada offer less resistance to indentation than those of the United States; the yellow cypress of British Columbia offers more resistance to indentation than that of Alaska.

To sum up the results of these tests: The tamarack, black spruce and white cedar of Canada were found to have less weight, less elasticity, less transverse strength, less resistance to longitudinal compression and less resistance to indentation than those of the United States; the white spruce of Canada was found to have more weight, elasticity, transverse strength and resistance to longitudinal compression but less resistance to indentation; the banksian pine more elasticity, transverse strength and resistance to longitudinal compression, but less weight and resistance to indentation; the red pine more resistance to longitudinal compression and to indentation, but less weight, elasticity and transverse strength; the white pine more elasticity and transverse strength, but less weight and resistance to longitudinal compression and to indentation; the hemlock more weight, elasticity, transverse strength and resistance to longitudinal compression, but less resistance to indentation. Of the Pacific coast trees the western white spruce of Canada appeared by the tests to have more elasticity and transverse strength, but less weight and resistance to longitudinal compression and indentation than those of the United States; the white mountain pine more weight, elasticity, transverse strength and resistance to longitudinal compression, but less resistance to indentation; the Douglas fir more elasticity but less weight, transverse strength and resistance to longitudinal compression and indentation. The yellow cypress of British Columbia showed more weight, elasticity, transverse strength and resistance to longitudinal compression and indentation than those of Alaska.

In tabular form the results of these tests were as follow; the plus sign being used where the figure for the Canadian wood is higher, and the minus sign where it is lower than for woods of the same species of trees in the United States:—

WOODS OF CANADA AND UNITED STATES COMPARED.

| Botanical Name.                    | English Name.          | Specific gravity. | Elasticity. | Ultimate transverse strength. | Resistance to longitudinal compression. | Resistance to indentation. |
|------------------------------------|------------------------|-------------------|-------------|-------------------------------|---|----------------------------|
| <i>Atlantic Coast.</i>             |                        |                   |             |                               |   |                            |
| <i>Larix Americana</i> .....       | Tamarack.....          | —                 | —           | —                             | —                                       | —                          |
| <i>Picea alba</i> .....            | White spruce.....      | +                 | +           | +                             | +                                       | —                          |
| <i>Picea nigra</i> .....           | Black spruce.....      | —                 | —           | —                             | —                                       | —                          |
| <i>Pinus Banksiana</i> .....       | Banksian pine.....     | —                 | +           | +                             | +                                       | —                          |
| <i>Pinus resinosa</i> .....        | Red pine.....          | —                 | —           | —                             | +                                       | +                          |
| <i>Pinus strobus</i> .....         | White pine.....        | —                 | +           | +                             | —                                       | —                          |
| <i>Thuja occidentalis</i> .....    | White cedar.....       | —                 | —           | —                             | —                                       | —                          |
| <i>Tsuga Canadensis</i> .....      | Hemlock.....           | +                 | +           | +                             | —                                       | +                          |
| <i>Pacific Coast.</i>              |                        |                   |             |                               |   |                            |
| <i>Picea Sitchensis</i> .....      | Western white spruce.. | —                 | +           | +                             | —                                       | —                          |
| <i>Pinus monticola</i> .....       | White mountain pine..  | +                 | +           | +                             | +                                       | —                          |
| <i>Pseudotsuga Douglasii</i> ..... | Douglas fir.....       | —                 | +           | —                             | —                                       | —                          |
| <i>Thuja excelsa</i> .....         | Yellow spruce.....     | +                 | +           | +                             | +                                       | +                          |