

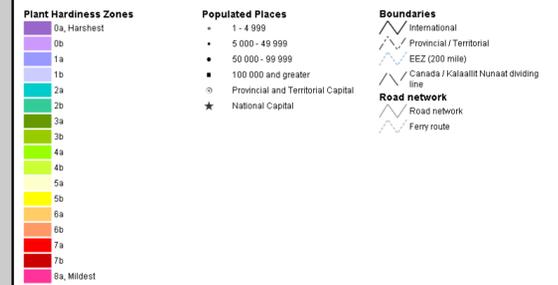
Atlas of Canada 6th Edition
 (archival version)

Plant Hardiness Zones

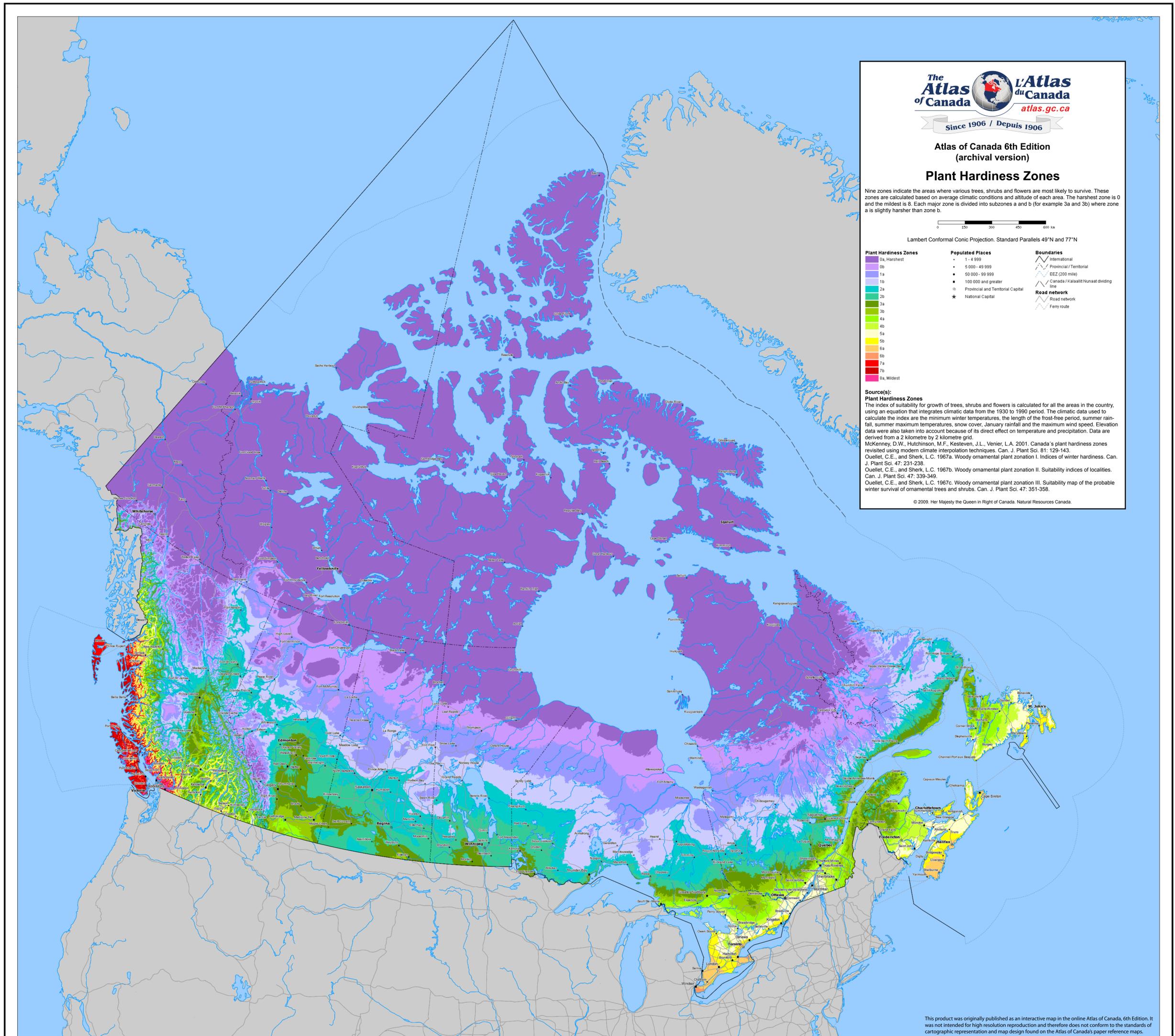
Nine zones indicate the areas where various trees, shrubs and flowers are most likely to survive. These zones are calculated based on average climatic conditions and altitude of each area. The hardest zone is 0 and the mildest is 9. Each major zone is divided into subzones a and b (for example 5a and 5b) where zone a is slightly harsher than zone b.



Lambert Conformal Conic Projection. Standard Parallels 49°N and 77°N



Source(s):
Plant Hardiness Zones
 The index of suitability for growth of trees, shrubs and flowers is calculated for all the areas in the country, using an equation that integrates climatic data from the 1930 to 1990 period. The climatic data used to calculate the index are the minimum winter temperatures, the length of the frost-free period, summer rainfall, summer maximum temperatures, snow cover, January rainfall and the maximum wind speed. Elevation data were also taken into account because of its direct effect on temperature and precipitation. Data are derived from a 2 kilometre by 2 kilometre grid.
 McKenney, D.W., Hutchinson, M.F., Kesteven, J.L., Venier, L.A. 2001. Canada's plant hardiness zones revisited using modern climate interpolation techniques. *Can. J. Plant Sci.* 81: 123-143.
 Quellet, C.E., and Sherk, L.C. 1967a. Woody ornamental plant zonation I. Indices of winter hardiness. *Can. J. Plant Sci.* 47: 231-238.
 Quellet, C.E., and Sherk, L.C. 1967b. Woody ornamental plant zonation II. Suitability indices of localities. *Can. J. Plant Sci.* 47: 339-349.
 Quellet, C.E., and Sherk, L.C. 1967c. Woody ornamental plant zonation III. Suitability map of the probable winter survival of ornamental trees and shrubs. *Can. J. Plant Sci.* 47: 351-358.
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