

**SOLIDAGO GLUTINOSA SSP. RANDII VAR. ONTARIOENSIS**  
(COMPOSITAE: ASTEREAE), A NEW UPPER GREAT LAKES ENDEMIC

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The following name is needed for publications on the biosystematics of the *Solidago glutinosa* complex:

*Solidago glutinosa* Nutt. ssp. *randii* (Porter) Cronq.  
var. *ontarioensis* Ringius, var. nov.

*Cypselis setosibus parce, ramis capitulescentas et pedunculis strigosibus parce, pollinis grana plus quam 25.0  $\mu$  diametro.*

Stems (7.0) 13.3-40.9 (60.5) cm high. Rosette leaves spatulate, apices obtuse to acute, margins entire-crenate to crenate. Cauline leaves (2) 4-13 (24), lowermost (4.0) 5.7-12.2 (21.5) mm wide. Capitulescence variable but mostly open virgate, capitula not numerous. Rays 8-10. Disks 10-14; pollen diameter (21.2) 23.6-27.1 (29.5)  $\mu$ . Chromosome number:  $2n = 36$ .

TYPE: CANADA. Coastal rocks, Michipigoten Harbour, Algoma District, Ontario, 25 August 1984, G. S. Ringius 1987. (holotype WAT).

Variety *ontarioensis* is one of four varieties recognised in ssp. *randii* in a recent revision of the *Solidago spathulata/glutinosa* complex (Ringius, 1985, doctoral diss. University of Waterloo). The variety occurs only on sparsely vegetated rocky shorelines of lakes Superior and northern Huron, usually within a few meters of the water's edge. Its small size, few leaves and long outer phyllaries distinguish it from var. *gillmanii* (Gray) Cronq., a sand dune variety.

Variety *ontarioensis* is similar to the upper Great Lakes form of *Solidago glutinosa* ssp. *glutinosa* var. *glutinosa*. The two varieties occur in the same habitat type but differ in ploidy, the former is tetraploid and the latter is diploid, and ploidy related traits. Variety *ontarioensis* has larger pollen grains, larger capitula, and longer corolla lobes. They are sympatric along the northeast coast of Lake Superior from Mont-real Harbour to Sault Ste. Marie. However, they appear to form discrete populations along the shore. Variety *ontarioensis* is more abundant in the eastern end of Lake Superior and on Georgian Bay while var. *glutinosa* is found only on Northern Lake Superior.



Ringius, Gordon S . 1987. "Solidago glutinosa ssp. randii var. ontarioensis (Compositae: Astereae), a new upper Great Lakes endemic." *Phytologia* 62(5), 432.

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