Canada Goldenrod Solidago canadensis

Asteraceae—Aster family

by Tom Reaume © 2010 Nature Manitoba

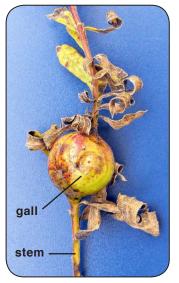
Grant: Manitoba

A variable **perennial wildflower** 30–200 cm tall, singly or in scattered open colonies from horizontal, reddish purple young **rhizomes** that eventually reach 10–26 cm long by 1.5–4 mm wide; **roots** tan, 2–15 cm long by c. 1 mm wide; in woodland edges, abandoned farms, fields in towns and cities, roadsides, in moist to dry sites.

- FLOWER HEADS yellow, blooming July-October; inflorescence a panicle, 5-38 cm long by 3-26 cm wide; floral branches 1-22 cm long, leafy, ascending, hairy, with numerous flower heads arranged mostly along the upper side; subtending bracts (of floral branches) one, leaf-like; peduncles 1-7 mm long by c. 0.4 mm thick, hairs white, curled upward, each subtended by a small bract; flower heads numerous, 2.5-5 mm wide by 4.4-7 mm long; involucre light green, 2-4 mm long by 1-2.5 mm wide, appears hairless; involucral bracts in 3 or 4 series, c. 20, thin, imbricate, 1-3 mm long by 0.5-0.6 mm wide, ciliate on exposed hyaline margins, thicker at bases and apices; ray florets female, fertile, 6-18 per head, total length 3.6-4.9 mm, irregularly spaced around the outside of the head; **ovary** slightly hairy, 0.7–1 mm long; pappi of 23-40 whitish bristles 1.7-3.6 mm long, deciduous as a unit; corolla tube whitish yellow, 1.2-1.9 mm long by c. 0.2 mm wide; ligules yellow, 0.9-3 mm long by 0.4-0.6 mm wide, glabrous, 2-nerved, apical teeth 2, these c. 0.05 mm long; style yellow, 2-parted; disc florets 2-8 per head, perfect, total length 5-6 mm; ovary as above; pappi as above; corolla tube 1.3-1.5 mm long; corolla limb yellow, c. 1.7 mm long, apical teeth 5 (4), 1–1.3 mm long by c. 0.4 mm wide, pointed; stamens 5; filaments free for c. 1 mm; anthers c. 1.3 mm long, united into a tube; pollen yellow; style yellow, total length c. 4.3 mm, 2-parted with the parts usually erect and eventually exserted past the top of the anther tube; receptacle hairless, c. 1 mm wide, flat, rough; fruiting heads 5-7 mm wide by c. 4 mm tall; flower to fruit 7-9 weeks.
- FRUIT an achene, 1-seeded, medium brown, with 5 or 6 light tan ribs; body 1–1.3 mm long by c. 0.3 mm wide and thick, dull, hairs short and ascending, walls c. 0.02 mm thick; pappi whitish, bristles with fine ascending hairs; seed brown, filling the fruit.
- LEAVES on stem, alternate, simple, numerous, mostly sessile, marginal teeth sometimes obscure to c. 3 mm long and mostly in the upper half of the blades, the lower blades wilting and soon deciduous; blades 0.5–18 cm long by 0.5–3.5 cm wide, largest near mid-stem, thick to thin, spreading, often with a partial twist near the tip, pointed, with 3 main veins, flat, glabrous or with a downy feel from light grayish hairs, more or less hairy below and along margins, the hairs curled toward the apex and each 0.1–0.2 mm long; petioles 0–2 mm long.
- STEM erect, solid, round, pale yellowish green, covered with woolly hairs c. 0.2 mm long in the upper half giving a downy look; less hairy and reddish brown to green near the tough, naked, 2–7 mm wide base; often with a gall.
- RANGE: (CAN) 12 provinces; (USA) 44 states; an eastern native introduced into the western states.



Colony of Canada Goldenrod along a sidewalk beside Portage Avenue in Winnipeg, Manitoba



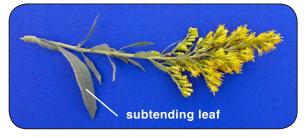


Inflorescence 18 cm wide in full bloom

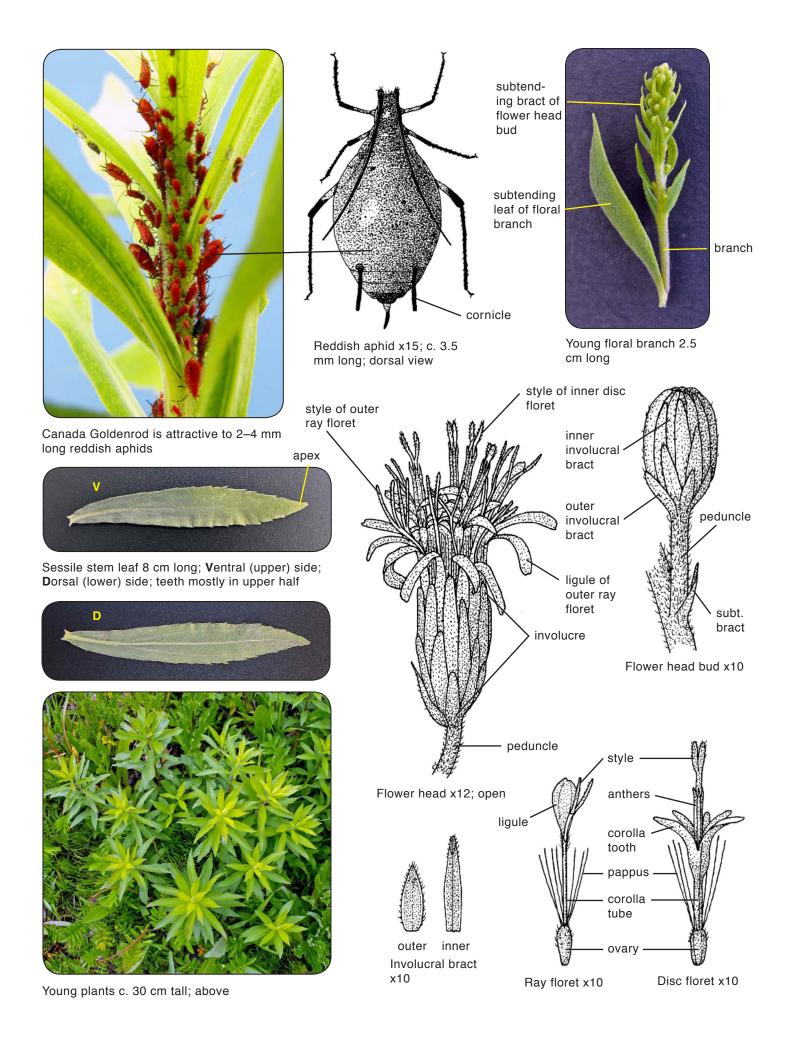
A round gall 2 cm wide on this year's stem due to the Stem Gall Fly *Eurosta solidaginis*

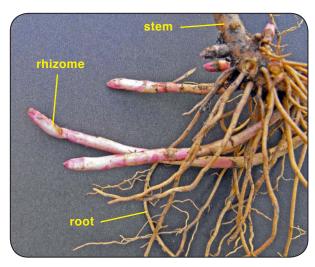


Middle floral branch 5.5 cm long with flower heads in bud

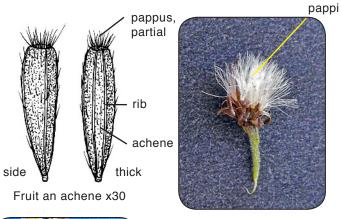


Middle, finely hairy floral branch 12 cm long with most flower heads open; reddish aphids abound

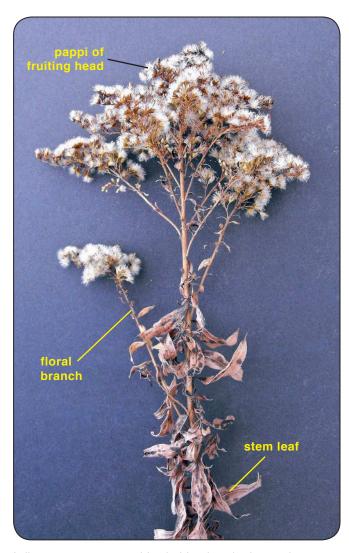




Tan roots c. 1 mm thick and young pinkish rhizomes c. 3 mm thick in late summer



Fruiting head 5 mm wide



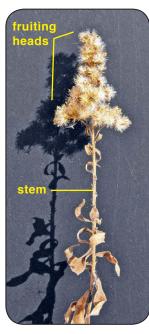
Inflorescence 12 cm wide; fruiting heads ripe and open



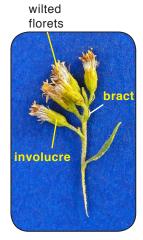
Lower stem with wilted leaves as flowers fade



Cluster of Canada Goldenrod in fruiting stage with fluffy heads



Inflorescence 3 cm wide with heads ripe with fruit



Secondary branch with 5 flower heads; post-blooming