Wild Licorice Glycyrrhiza lepidota

Fabaceae - Pea family

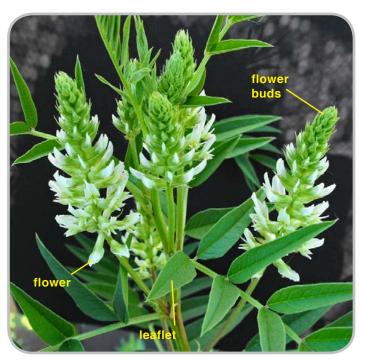
by Tom Reaume © 2010 Nature Manitoba

perennial wildflower 83 (30–123) cm tall by 40 (30–60) cm wide from an extensive woody **rhizomes** 20–100 cm long by 2–15 mm wide with a slight licorice flavor; in large patches of several m², or several plants widely spaced; in prairies, along railways, stream valleys, slough banks, roadsides and ravines; a **native**.

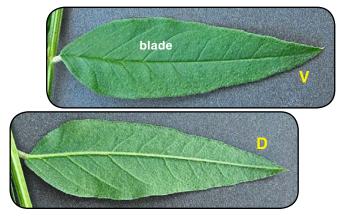
- FLOWERS whitish pale yellow to slightly pinkish purple, blooming May-August; inflorescence a raceme (spikelike), vertical, each 1.5-10.5 cm long by 2-3 cm wide of 10-60 flowers, usually with 1-8 (-36) racemes per plant, and 1-3 racemes from apices of the floral branches, a 10 cm long inflorescence may take 14-16 days to finish blooming; floral branches up to 12 per plant, each 30 (14-50) cm long, reduced above; peduncles axillary, glandular, stiff, slightly hairy, angled, grooved, 4.5 (1–9.5) cm long by c. 2 mm wide; pedicels less than 1 mm long in flower, ascending, glandular, 0.5-3 mm long in fruit; subtending bracts (of flowers) 5-8 mm long by c. 2 mm wide with scattered hairs; flowers perfect, 5-7 mm wide by 9-15 mm long, each blooms for 1-2 days; rachis hairy; calyx total length 5-8 mm, tubular, with scattered gland-tipped hairs, tube 3-3.5 mm long by c. 2 mm wide, teeth five,1-3 mm long; petals 5, glabrous; banner (1 petal) 10-14 mm long, pointed; wings (2 side petals), each 8-9.5 mm long by c. 2 mm wide, claw 2.8-3 mm long; keels (2 petals) partially united, c. 8 mm long by c. 1.8 mm wide, the claw c. 2.5 mm long; stamens 10, diadelphous (9+1), 5-5.5 mm long, enclosed and ending c. 2 mm from the tip of the keel; anthers yellow, c. 0.5 mm long; pollen yellow; pistil green, included in the keel, c. 6 mm long by c. 1 mm wide; ovary c. 2.5 mm long with several rows of short thick green prickles, walls c. 0.2 mm thick; ovules 5-7 in a row, each c. 0.4 mm long by 0.3 mm wide, green, smooth; style smooth, tapered, c. 3.3 mm long, curved at its tip; stigma flat, green, c. 0.3 mm wide; fruit clusters 3-9 cm long by 2.5-3.5 cm wide, some overwintering on the plant.
- FRUIT a legume (pod or bur), 15–48 per cluster, reddish to dark brown, straight, each 10–21 mm long by 8–13 mm wide (including the prickles), with an apical projection c. 2 mm long, pods eventually splitting lengthways, each half c. 4 mm wide (not including the prickles), walls c. 0.3 mm thick, smooth, light tan inside; prickles hooked, 2–3.5 mm long by c. 0.3 mm wide at their bases, spreading; clusters of burs 5.8 (2.6–8.8) cm long by 3.5 (2.5–4.2) cm wide, straight; seeds 2–5 per pod, each 2.5–3.8 mm long by 2–2.5 mm wide by 1.5–1.9 mm thick, smooth, medium grayish green, slightly lighter around the 0.4 mm wide by 0.3 mm tall oval hilum, slightly shiny, with a shallow groove below the hilum, they produce a faint rattle when a ripe cluster of pods is shaken, not stirred.
- LEAVES alternate, compound (odd-pinnate); stem blades 3–20 cm long by 2–13 cm wide; leaflets 7–21 per leaf blade, mostly ascending but not erect, entire, mucronate, each 1.5–6.5 cm long by 0.3–2.5 cm wide, more hairy below on raised midrib, glandular punctate below, less so above; petioles 1–5 cm long and hairy; stipules 3–9 mm long by 1–2 mm wide, pointed, deciduous; rachis hairy, with tiny whitish scales; petiolules 1–2 mm long.
- STEM erect, stiff, one to several, ridged, hairy, with tiny white scales, stalked glands or not, by late summer turning a medium reddish brown, striate and mottled, branched; often overwintering; 2–6 mm wide near the naked base.
- RANGE: (CAN) 5 western provinces; (USA) 31 states.



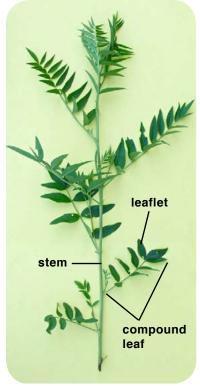
A large patch of Wild Licorice about 80 cm tall occupies the eastern part of Living Prairie Museum in Winnipeg, Manitoba



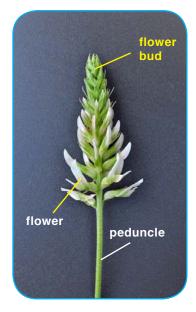
Ascending racemes starting to bloom from the bottom upward; right raceme is 7 cm long



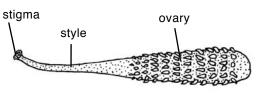
Leaflet 1.8 cm wide – top, ventral side; bottom, dorsal side, both sides glandular



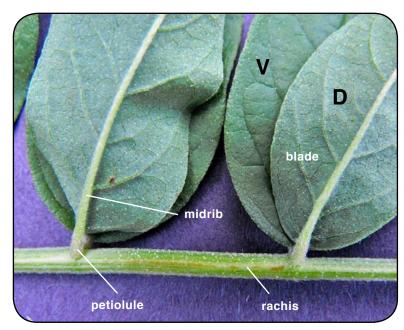
Young Wild Licorice plant 65 cm tall, mid-June; no flowers yet



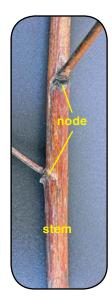
Inflorescence 4.6 cm long by 2.7 cm wide in mid-July



Pistil x10



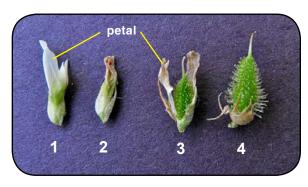
Paired leaflets 5.5 cm long, nodes 2 cm apart along the rachis; glandular punctate (white dots) on both sides of blades; Winnipeg



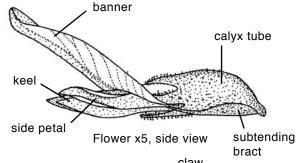
Stem turns reddish and woody in late summer



Inflorescence 8.6 cm long, c. 14 days later



Four pieces from top to bottom of the 8.6 cm long inflorescence to the left; flower is 1.2 cm long; the prickles are c. 1.5 mm long on the right green bur

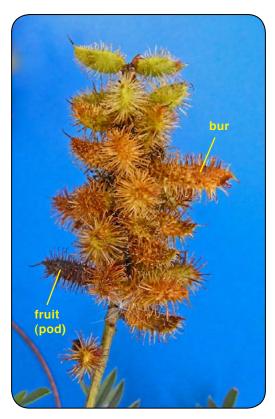


apex Claw

Keel x6 blade

Side petal x5

Subtending bract of each flower x7



8 cm long cluster of Wild Licorice fruit in late summer in Winnipeg, Manitoba



Plant 1 m tall with compound leaves and several ripening fruit clusters in fall



Overwintering fruit (burs) 1-2.1 cm long are easily removed from a plant, but not your hair



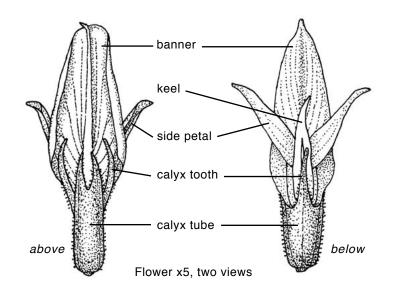
Cluster of overwintering fruit (burs) 6.5 cm long and 3.5 cm wide; rattles when shaken

above



Seed x10

thick



side



Upper portion of vertical root 5 mm wide

