Vicia sativa L. subsp. nigra (L.) Erhart, NARROW-LEAVED VETCH. Annual vine, with tendrils, taprooted, several-stemmed mostly near base, sprawling and climbing over neighboring plants, to 175 cm long; shoots with flexible stems and only cauline leaves, sparsely white-strigose and short-hirsute (hirtellous); tendrils terminal + 1-2 pairs of lateral tendrils at end of leaf rachis; roots nodulated. Stems: 6(8)-angled usually with 2 angles winged, axis to 3 mm diameter, with wings on 2 lateral vein descending from each leaf for 1 internode and continuous with wings of adjacent internodes, with ridge or angle descending from each leaf midrib, internodes 20–120 mm long, sparsely to moderately strigose. Leaves: helically alternate, even 1-pinnately compound with 4–6 pairs of opposite to subopposite lateral leaflets (rarely with leaflets unmatched; on basal leaves with as few as 2 pairs of leaflets), petiolate without pulvinus, with stipules; stipules 2, attached to descending lateral veins from petiole, ovate with a long basal lobe on trailing edge and a central extrafloral nectary, $4-5.7 \times 2-3.5$ mm (excluding basal lobe), green but with a large, very dark, purplish red nectary, commonly with a tooth above basal lobe, margin with smaller teeth below acuminate tip, 3–6-veined, the nectary elliptic or ovate to oblong, $1.3-2 \times 0.8-2.3$ mm, colored on both surfaces but on lower face nectar-producing. generally redder, and bordered by a narrow, darker rim on lower face, the basal lobe mostly lanceolate, $4.2-8 \times 0.7-2$ mm, \perp axis of bractlet, entire or with tooth 0.1–1.7 mm long on leading edge below middle, sometimes also with a tooth to 1 mm long on trailing edge; petiole 0-3.5 mm long, with thick margins, villous to strigose; rachis channeled, 7-80 mm long (= first to last leaflet), villous to strigose with some hairs having small papillate bases; petiolules 0.5–1.2 mm long, pale green, villous; blades of leaflets attached to thick margins bordering rachis channel, elliptic, $10-35 \times 4-16$ mm, broadly tapered at base, entire and strigose-ciliate on margins with hairs having papillate bases, broadly rounded to truncate at tip with midrib continuing as a tooth 1.2–2 mm long, pinnately veined with 7-12, ascending lateral veins, upper surface dull green and glabrate, lower surface paler green and whitish hirtellous. Inflorescence: raceme, axillary, in range 1–2flowered, lacking bracts; peduncle 0.7-3 mm long; rachis < 3 mm long or absent if only 1 flower; pedicel 0.8–2 mm long, strigose just above base. Flower: bisexual, bilateral, pealike (papilionaceous), at anthesis 6–8 mm wide (spreading wings and banner), 16.5–19 mm long; nectary tonguelike protruding from receptacle on lower side of ovary, ca. 0.4 mm long, green; calyx 5-lobed, 10–14.3 mm long, green, nearly glabrous or strigose along veins; tube compressed-cylindric, $5.8-7.3 \times 2-2.7 \times 3-3.9$ mm, eccentrically cupped at base with pedicel attached basally but toward lower side or slightly oblique, 10-veined, 5ribbed; lobes subequal, linear-triangular, $4.5-7.5 \times 0.8-1.2$ mm, narrowly acute at tip, ciliate with upcurved hairs on margins, with a few strigose hairs at base of midvein on outer surface; petals 5, clawed; banner broadly obovate, 16–16.8 mm long, claw 7–7.5 mm long, broadly tapered from base of limb, whitish, limb spreading outward and curving upward at anthesis, $8.8-9.5 \times 9.2-10.3$ mm (flattened), heart-shaped to cleft at tip but with a small tooth 0.2 mm long in notch, strong reddish purple to strong purple on inner surface, paler on outer surface, with a whitish basal area intruding from claw, with ca. 23 veins midway between margin and claw, the veins commonly forking near margin and darker than lamina; wings 2, 14–16 mm long, claws $6.5-7.5 \times 0.8-1$ mm, whitish, limbs ± semiobovate to obovate, $8.5-9.5 \times 4.2-5.3$ mm, mostly strong reddish purple to strong purple but whitish at base, with a small backward-pointing lobe at base above claw, rounded at tip, 10-veined, basal lobe oblong, $2-2.3 \times 0.8-0.9$ mm; keel of 2 petals fused along most of

lower edge to form an inflated, prowlike tip, 9.8-10 mm long, claws 6.7-7 mm long and free for 6.2-7 mm from base, whitish to pale yellow, limbs 2.8-3 mm long, 2-2.7 mm tall, strong reddish purple on outer curve, very dark purple on upper edge near tip, pale yellowish on inner above claw to midpoint, with a small rounded tooth or a rounded angle at base of limb and claw; **stamens** 10, diadelphous (9 filaments fused and 1 free), < style; filaments 8.5–10.5 mm long, whitish, free portions alternating long (1–1.4 mm long) and short (0.7–0.8 mm long), whitish, arching upward 90° from base, free filament also arching upward 90° at tip; anthers basifixed, dithecal, $0.3-0.4 \times 0.15-0.2$ mm, greenish yellow, longitudinally dehiscent; pollen pale yellow; pistil 1, sessile; ovary superior, linear and compressed side-to-side, $8.5-9.5 \times 0.4 \times 0.9$ mm, tapered at ends, green, minutely pubescent and glandular with spheric hairs, 1-chambered with 10 ovules attached to upper side; style 1.3–1.5 mm long, bent sharply (90°) at base, hairy for ca. 0.5 mm below stigma, with the longer hairs (0.5 mm long) on outer edge of style tip; stigma \pm capitate, 0.2×0.3 mm, slightly wider than style, greenish yellow, papillate. Fruit: pod (legume), dehiscent by divergent and strongly twisting valves, ca. 5-seeded, \pm linear, 45–57 \times 5.2–5.5 mm, dark brown, broadly tapered at base, ribbed on top and bottom, slightly constricted along diagonal veins, long-tapered and sometimes with short, upturned beaked at tip, minutely puberulent. Seed: spheroid, $3.3-4 \times 3.1-3.7$ mm, olive green with brown squigglyreticulations and mottled, sometimes with black dots, smooth; hilum 2-2.3 mm long. Mid-May-late June.

Naturalized. Annual vine supporting itself by attaching to other plants via tendrils, growing in shady, grassy areas in riparian woodland. *Vicia sativa* subsp. *nigra* is less common in our range than *Vicia sativa* subsp. *sativa*. Although often separated by having darker fruits (*nigra*), it is more reliably distinguished from the typical subspecies by shape of stipules (ovate with a basal lobe versus crescent-shaped to semicircular and \pm jagged in subsp. *sativa*), flower length (< twenty millimeters versus > twenty millimeters), and length of the calyx (< fifteen millimeters versus > fifteen millimeters), and in subsp. *nigra* the ratio of calyx lobe length to tube length is generally less than one versus longer in subsp. *sativa*.

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