

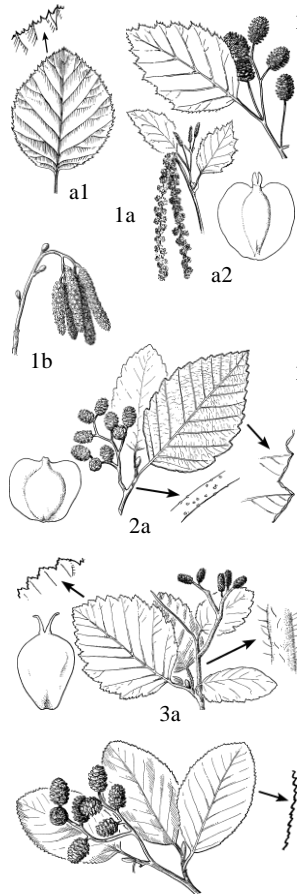
Alnus viridis and infraspecific taxa are synonymized within *A. alnobetula* and respective infraspecific based on nomenclatural research showing that name *A. viridis* was actually based on *Betula viridis*. No other changes are made to the key.

References:

Greuter, W. and E.V. Raab-Straube. 2011. Euro Med Notulae, 5. Willdenowia, 41(1):129-138. <https://doi.org/10.3372/wi.41.41117>.

Alnus Hill Alder

♂ catkins pendent, main bracts ± peltate, subtending (1)2(–4) bracteoles and 3–6 fls, each fl with (3)4-parted perianth and 1–6 stamens; ♀ catkins conelike, scales hardened and persistent, each with (1)2 naked fls and 2–3 bracteoles; trees or shrubs with simple, dentate to lobed lvs. (Old L name for the pl).



1a Catkins developing and fl with the lvs, on twigs of current year, the ♂ catkins with slender peduncles (0.5–)1–3 cm; frs with wings at least 1/2 as wide as nutlet; lf bls ovate, 3–10 cm, not revolute, only slightly paler beneath than above, finely 1–2-serrate and ± sinuate; winter buds ± sessile, sharply acute; thicket-forming shrubs, 2–4(–8) m; moist places, lowl to subalp; AK s, on both sides Cas, to n CA, e to n RMS and across Can to Atl; green a., mt a.; 2 intergrading subsp. in our area (*A. viridis*)

1 ***A. alnobetula*** (Ehrh.) K.Koch

a1 Margin of fertile st lvs once-serrate, unlobed, bl firm, dark green, broadly ovate; gen lowl; AK to NWT, s to BC, Alta, and Sask, and rarely from s VI to n CA and inl to c ID; siberian a. (*A. v.* subsp. *f.*)

subsp. ***fruticosa*** (Rupr.) Raus

a2 Margin of fertile st lvs doubly serrate or lobed and serrate, bl thin, light- to yellow-green, narrowly to broadly ovate; lowl to subalp; AK to CA, both sides Cas, e to Alta and n RMS; Sitka a. (*A. crispa* subsp. *s.*, *A. s.*, *A. v.*, subsp. *s.*)

subsp. ***sinuata*** (Regel) Raus

1b Catkins developing and fl before the lvs, on twigs of previous year, the ♂ catkins with stout peduncles < 1(–1.5) cm; either frs wingless or lf bls slightly revolute and gen much paler beneath than above; winter buds stalked, blunt to acute

2a Fr with wing 1/5–1/2 as wide as nutlet; lf bls strongly revolute, broadly elliptic to ovate-elliptic, 5–15 cm, sinuate and irreg serrate-dentate, paler (rusty-gray) beneath than above, new twigs not puberulent, gen glab; trees to 25 m; moist lowl; AK s, in and w Cas, to CA, also n ID and Sanders Co, MT (where intermediate to no 3) to se WA and ne OR; red a., OR a. (*A. oregana*)

2 ***A. rubra*** Bong.

2b Fr wingless or nearly so, lf bls neither revolute nor rusty-gray beneath, new twigs and petioles strongly puberulent; shrubs or trees

3a Lf bls lobed and serrate, or deeply double serrate, elliptic or ovate-oblong, 3–7(–11) cm; stamens mostly 4, filaments scarcely 1/2 as long as anthers; thicket-forming shrubs, 2–5(–12) m; moist to wet places, lowl to high mont; AK s, mostly e Cas, to CA, e to NS, s in RM to NM; mt a. (*A. i.* var. *occidentalis*, *A. i.*), ours subsp. ***tenuifolia*** (Nutt.) Breitung

3 ***A. incana*** (L.) Moench

3b Lf bls ± unlobed, finely serrate, narrowly elliptic or oblong-rhombic, 4–8 cm; stamens 1–3, filaments mostly subequal to anthers; trees, 5–30 m; sc WA, s in OR, both sides of Cas and in Wi Va, to Baja Cal, e to w ID, white a.; hybrids with no 2 known from Wi Va

4 ***A. rhombifolia*** Nutt.