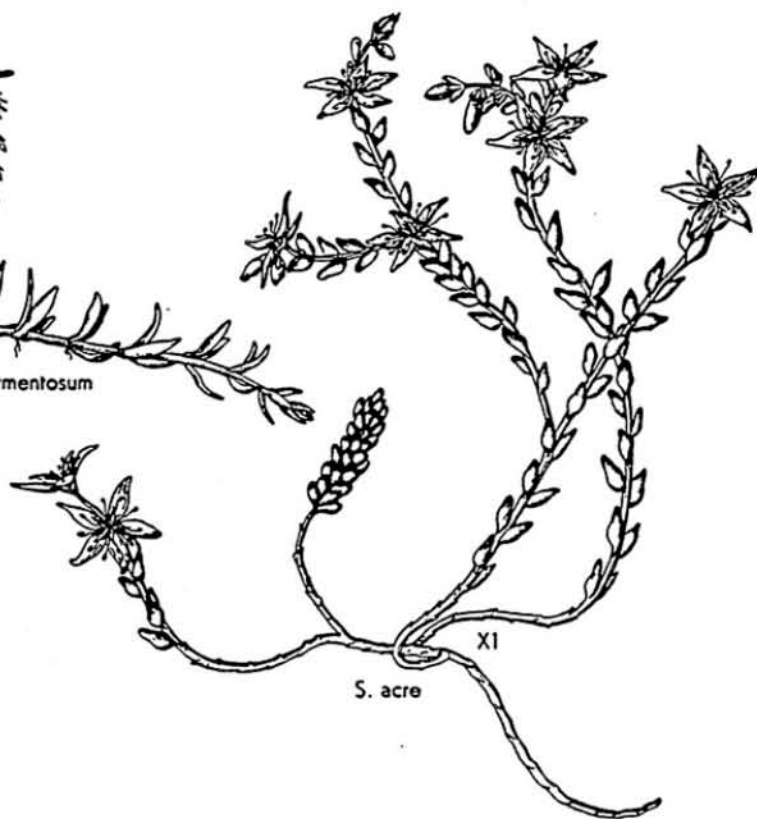
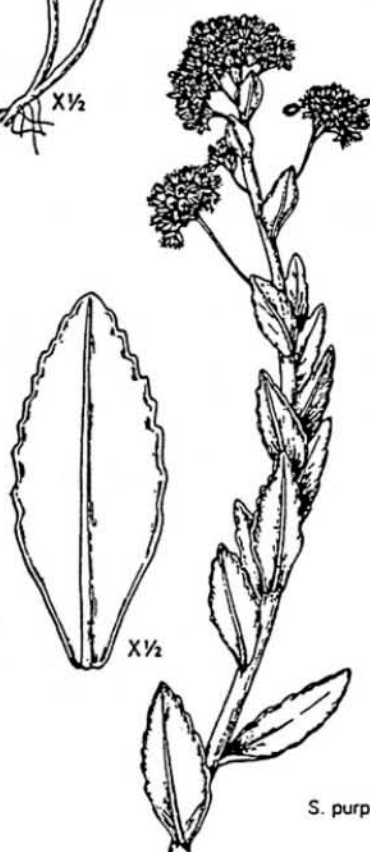
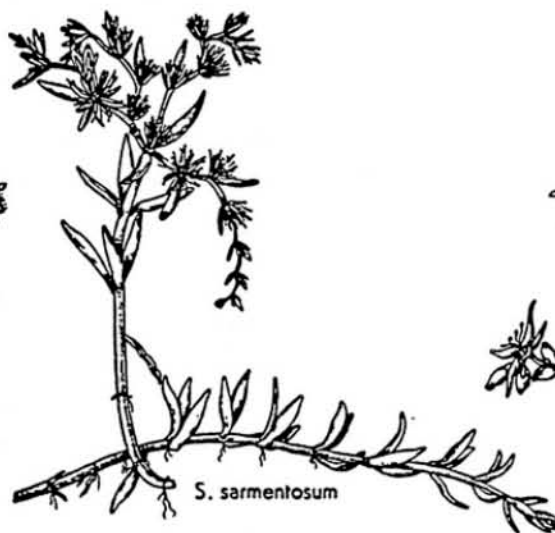
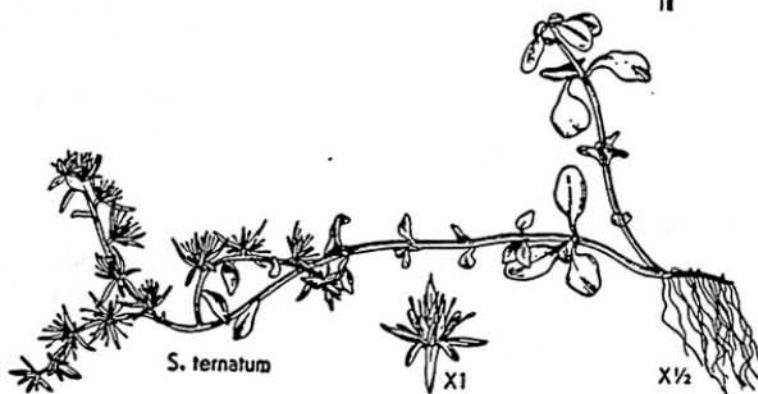
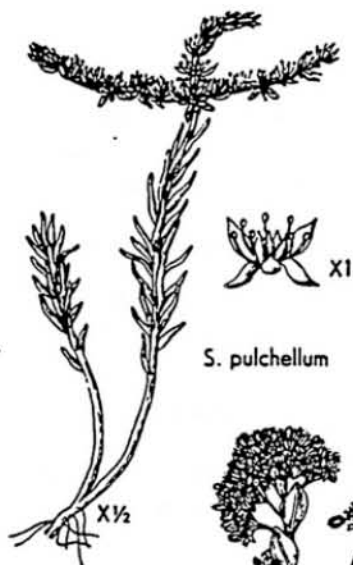
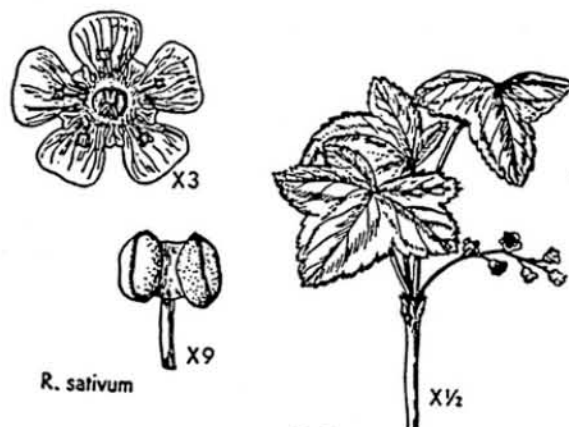
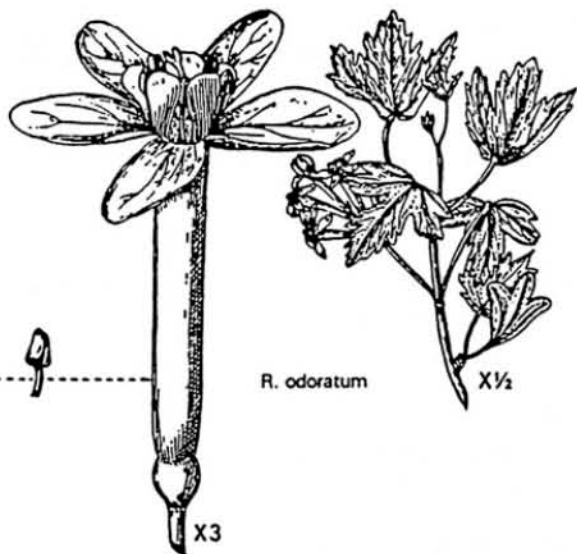


RIBES
SEDUM



CRASSULACEAE, Stonecrop Family

Herbs; flowers hypogynous or slightly perigynous, bisporangiate; perianth regular; sepals 4-5; petals 4-5, separate or slightly united at base; carpels 4-5, separate or united at base; stamens 8-10; fruit an aggregate of follicles.

1. SEDUM L. Stonecrop

Leaves fleshy, glabrous; stems erect or decumbent; flowers in cymes; petals 4-5; carpels separate; fruit an aggregate of follicles.

- a Leaves terete or subterete, alternate.
 - b Petals yellow; inflorescence branches few; leaves closely imbricated, 6 mm long or less. **5. *S. acre***
 - b' Petals pinkish-white or purple; inflorescence branches 3-7; leaves not crowded, 1-3 cm long. **3. *S. pulchellum***
- a' Leaves flat, fleshy.
 - c Leaves, at least the lower, opposite or in whorls of 3; inflorescence not compact, of 2-5 divergent branches, flowers sessile or subsessile, leafy-bracted.
 - d Petals white, anthers purple; upper leaves of flowering stems alternate or opposite; leaves crowded at tips of nonflowering stems. **2. *S. ternatum***
 - d' Petals yellow; leaves opposite or in whorls of 3. **4. *S. sarmentosum***
 - c' Leaves alternate or opposite; inflorescence compact, many-flowered; flowers often not sessile, not leafy-bracted. **1. *S. purpureum***

1. **Sedum purpureum* (L.) Schult.

Garden Orpine

Naturalized (native of Europe)

Leaves alternate or opposite, flat and fleshy, oblong or ovate, toothed toward apex; petals pink or rose-purple.

Syn.: *S. telephium* L. var. *purpureum* L.

REFERENCE: Selby 1891a:111a (introduced).

HERBARIUM RECORD: 26 Oct 1901—Franklin Co., *J. H. Schaffner*.

2. *Sedum ternatum* Michx.

Stonecrop

Leaves flat and fleshy, crowded at tips of nonflowering stems, usually alternate or opposite on upper flowering stems, but some may be in whorls of 3; petals white, anthers purple.

REFERENCES: Riddell 1834:120; Sullivant 1840:20; Selby & Craig 1890:10.

HERBARIUM RECORDS: 1833—Worthington, *J. Paddock Collection* (ILL); 1840—Cols., *Sullivant*; 2 Jun 1888—Scioto R., *Selby*; 1890—Scioto R., dry banks, Cols., *Selby*; May 1890—Cols., *Selby* (WOOS); 5 May 1899—Olentangy Park, Cols., *Helfrich*; 20 May 1900—Franklin Co., *Lamb*; 11 May 1901—Cols., *J. H. Schaffner*; 24 May 1923—Westerville, on rocks, *Benjamin*; 15 May 1924—Westerville, moist places, *I. Jones*; 22 May 1924—near Westerville, hillside, *Lash*; 8 May 1989—92 Overbrook Dr., E of N. High St., shale bank, Cols., Clinton Twp., *Lowden 4042*; 19 May 1990—just S of Plain/Jefferson Twps. line, where Blacklick Creek intersects with Morse Rd., Jefferson Twp., *Lowden 4324*; 3 May 1991—E bank of Scioto R., W of Rt. 257 just N of Rt. 161, limestone cliffs, Perry Twp., *Lowden 4598*.

3. *Sedum pulchellum* Michx.

Leaves alternate, linear or somewhat clavate, more or less terete, 1-3 cm long, the basal spur commonly sagittate; inflorescence widely divergent; sepals less than half as long as the narrowly lanceolate petals; petals white to pink to pale purple, approx. 5-6 mm long.

HERBARIUM RECORD: 1838—Worthington, *J. Paddock Collection* (ILL).

NOTE: Stuckey's personal notes read "doubtful if native to Worthington area."

4. **Sedum sarmentosum* Bunge

Naturalized (native of China)

Leaves flat and fleshy, opposite or in whorls of 3; petals yellow.

HERBARIUM RECORDS: 29 Jun 1963—along E bank of Olentangy R., just S of Lane Ave. bridge, Cols., *Cusick*; 22 May 1985—along Highland Ave. near King Ave., low growing mat, *Finnen 51*; 1 Jun 1986—147 Rustic Place, back yard, common ground cover, *R. Burnes 51*; 25 May 1988—E bank of Olentangy R., 300 feet from King Ave., Cols., *Kelly 31*; 23 May 1991—N side of Hayden Run, summit of limestone cliffs, just W of Scioto R., S side of Hayden Run Rd., Norwich Twp., NW Cols. Quad., *McCormac 3568*.

5. **Sedum acre* L.

Golden Carpet

Naturalized (native of Eurasia)

Stems creeping, mat-forming, lower part commonly clothed with persistent dead leaves; leaves terete, crowded, alternate, closely imbricated; petals yellow.

HERBARIUM RECORDS: Sep 1901—Franklin Co., *J. H. Schaffner*, 11 Jun 1987—along Olentangy River Rd. just N of Dodridge St., at SW corner of Union Cemetery (S unit), scattered on barren salty roadside berm, only 1 small patch, Cols., *T. Lammers 6117*.

SAXIFRAGACEAE, Saxifrage Family

Herbs; leaves alternate or opposite; flowers usually bisporangiate, ranging from scarcely perigynous through perigynous or partially epigynous; perianth regular or slightly zygomorphic; sepals and petals 4-5 or petals none; stamens as many as petals, twice as many, or more; carpels 2-4, united to top of styles, or only the styles separate, or only bases of carpels united, then stigmas, styles, and upper part of ovaries separate; locules as many as carpels or locule 1 with parietal placentae as many as carpels; fruit a capsule or of separate follicles. (incl. *Penthorum* L.)

a Carpels 5 (-7); stamens 10. **1. PENTHORUM**

a' Carpels 2-4; stamens 4-10.

b Petals none; small decumbent plants of wet soil, the small leaves partly opposite; flowers nearly sessile, small; sepals greenish; anthers yellow to red. **7. CHRYSOSPLENIUM**

b' Petals present; stems not decumbent.

c Flowers solitary, peduncle bearing 1 leaf; leaves entire. **6. PARNASSIA**

c' Flowers in clusters; leaves not entire.

d Stamens and petals 5. **5. HEUCHERA**

d' Stamens 10 or twice as many as the petals.

e Inflorescence a panicle; basal leaf-blades ovate or oblong, tapering to base, pinnately veined.

2. SAXIFRAGA

e' Inflorescence a raceme; basal leaf-blades ovate or circular, cordate at base, palmately veined.

f Petals entire; carpels unequal. **3. TIARELLA**

f' Petals pinnatifid; carpels equal. **4. MITELLA**

1. PENTHORUM L. Ditch Stonecrop

Erect; leaves alternate, sessile, lanceolate, serrate; flowers greenish, short-pedicel, in forked 1-sided cymes; sepals 5; petals usually none; stamens 10; carpels 5, united below; capsule opening by the circumscissile dehiscence of the 5 beaks which are the separate upper portions of the carpels.

1. *Penthorum sedoides* L.

Ditch-stonecrop

Erect, glabrous below, stipitate-glandular in the inflorescence; leaves alternate, lanceolate to narrowly elliptic, sessile, acuminate at both ends; sepals 5; petals usually none; carpels 5, united nearly to the middle, forming an angular capsule with horned lobes at maturity; stamens 10. Marshes and muddy soil.

REFERENCES: Riddell 1834:120; Sullivant 1840:20 (Virginian Orpine); Craig 1890:79 (sparingly along the lagoons about the island, 2 Aug 1882, 31 Jul 1889); Selby & Craig 1890:10.

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 5 Aug 1890—W. J. Green's, Franklin Co., *Selby*; 7 Aug 1890—Alum Creek, Cols., *Selby* (OS, WOOS); 9 Aug 1890—Cols., *Hine*; 29 Aug 1933—Baumgardner's Pond, *Chapman*; 11 Sep 1971—W of OSU Campus along Olentangy R. near Tower Dorms & Battelle, uncommon on clay banks, Cols., *Roberts 2045*; 22 Aug 1982—Blendon Woods, dry streambed in Day Camp area, *Owens*; Summer 1988—along Big Darby Creek between I-70 & Little Darby Creek, Galloway Quad., *Delong*; 9 Aug 1990—S side of Berger Rd., 1 mi., E of Richardson Rd., Madison Twp., *Lowden 4546*; 17 Oct 1991—Hoover Dam Park, W edge of reservoir, just NW of entrance off Cabbage Rd., Blendon Twp., *Lowden 4885*; 10 Aug 1992—Pickerington Ponds, wetland wildlife area, just S of Wright Rd. & E of Bowen Rd., Madison Twp., *Lowden 5020*.

2. SAXIFRAGA L. Saxifrage

Leaves in basal rosettes; flowers on leafless scapes; perianth regular or almost regular; sepals 5; petals 5; stamens 10; hypanthium adnate to bases of carpels; carpels 2, somewhat united at base, summits divergent and tapering; capsule 2-loculed at base, each carpel dehiscent as a follicle; ovules many, on axile placentae.