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# The West American Scientist.

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**THE WEST AMERICAN SCIENTIST.**  
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Charles Russell Orcutt, Editor,  
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WEST AMERICAN BOTANY.  
PAPAVER LEMMONI Greene.

"Near *P. Californicum*, but a larger and coarser plant, 1-3 ft. high; corolla twice as large, 2-3 inches broad, apparently of a deeper red, the base of the petals green; capsule broader and merely obovate; stigmas 7-10, their lower half sessile and radiant upon the summit of the capsule, upper half coherent one with another and forming a conical apiculation. Hilly and mountainous region of San Luis Obispo county, California (J. G. Lemmon)."—Greene, *Pittonia* 1:168.

DENDROMECON FLEXILE Greene.

"Six to ten ft. high, tree-like, with numerous more or less drooping branches; leaves ovate-oblong to elliptical, obtuse, often mucronulate, 2-5 inches long, fleshy and glaucous, crowded on the branches, short-petioled, their margins smooth and revolute; corolla rather pale yellow, 2 inches in diameter, on a short pedicel; capsules stout, curved, 3-5 inches long; seed large, spherical, lightly scrobiculate, with a large amber colored caruncle. A common large shrub of the island of Santa Cruz, very strikingly unlike either the original mainland species, or that of the neighboring island of Santa Rosa. The large, pallid, somewhat succulent leaves are so numerous as to weigh down the branches, and this gives the shrub a rather graceful appearance; when dry they are thinner and softer than in the other species. In their axils the leaf-buds appear as solid, pyramidal, thorn-like protuberances, another singular characteristic."—Greene, *Torr cl b* 13: 216 (N 1886).

—Bull. Calif. Acad. Sci. i. 389:—Santa Cruz Island, 'on bushy hillsides everywhere; quite

plentiful on the northward slope at no great distance from the shore.' he 55

**ESCHSCHOLTZIA GLAUCA** Ge.

"Perennial, very glaucous, erect, 2-4 ft. high, of a loosely cymose and sometimes distinctly dichotomous inflorescence: leaves small, their segments linear and little divergent; torus with a narrow but manifest spreading rim: petals an inch long, with orange spot at base and commonly a narrow border of the same color at the truncate summit, otherwise light yellow: seeds globular, reticulated: cotyledons linear, cleft to the middle. On dry clayey hillsides of the interior basin of Santa Cruz Island."—Greene, *Pittonia* 1:45 (Mr 1887).

**ESCHSCHOLTZIA MARITIMA** Ge.

"Root perennial: stems stout and succulent, very leafy and dichotomous, 2-3 ft. long, wholly prostrate: herbage very glaucous and also white-puberulent: leaves dense, i. e., the spatulate-oblong obtuse segments numerous, short and crowded: torus with manifest rim spreading horizontally: calyptra about  $\frac{1}{2}$  inch long, oval, abruptly narrowed to a very short blunt or even retuse tip: corolla broad-campanulate; petals 10 lines long, lemon-yellow with a rhomboidal spot of orange at base: pod small: seed reticulate. About Point Harris on the northeastern part of the island of San Miguel, on clayey slopes near the sea; very plentiful."—Greene, *Pittonia* 1:60.

**ARABIS PARISHII** Wat.

"Low and caespitose (2-4 in. high), very stellate-pubescent throughout, the simple slender stems from a much branched caudex: leaves entire, the lower numerous, linear-oblong, 6 lines long or less, the cauline few, linear, not articulate: fls rose-color, 3 or 4 lines long: pods glabrous, ascending on pedicels 2 or 3 lines long (including the elongated filiform style) by a line broad, attenuate above; valves 1-nerved and veined: seeds somewhat 2-rowed, elliptical, narrowly winged. In Bear valley, San Bernardino mts., Cal., at 6,500 ft. alt. (Parish)."—Am ac pr 22: 468.

**ARABIS PULCHRA** Jones.

"Perennial, canescent throughout with a fine stellate pubescence, the stems erect (a ft. high) from a branch-

ing woody base: leaves entire, not rosulate at base nor auriculate, the lower narrowly oblanceolate (1 or 2 in. long), the upper linear-lanceolate: fls usually large (3-7 lines long), and deep rose-color, soon spreading or reflexed: pods pendent on pedicels 3 or 4 lines long, finely pubescent,  $1\frac{1}{2}$ - $2\frac{1}{2}$  in. long by  $1\frac{1}{2}$  lines wide, the valves 1-nerved and veined, and stigma sessile: seeds small, in 2 rows, orbicular, winged."—S. Watson, *Am ac pr* 22:468. Valleys of western Nevada to San Bernardino and San Diego counties, Cal.

**ARABIS PERENNANS** Wat.

"Perennial, with a usually branching and somewhat woody base, roughly stellate-pubescent or sometimes glabrous above, about a foot high: lower leaves broadly spatulate to narrowly oblanceolate, dentate or sinuate, the petioles sometimes ciliate, the cauline linear-oblong, auriculate, mostly entire. fls small, often pale: pods divaricately spreading or reflexed, usually curved, glabrous, 1 or 2 in. long by a line broad or less, obtuse or acutish, the small stigma sessile: seeds orbicular, very narrowly margined."—S. Watson, *Am ac pr* 22:467. Northern Nevada, Utah, Arizona, and the San Bernardino mts, Cal.

**ARABIS BECKWITHII** Wat.

"Resembling *A. subpinnatifida*, biennial, hoary with a fine dense stellate pubescence: stem erect, a span high: leaves entire, an inch long or less, the radical oblanceolate, the cauline lanceolate, auriculate: fls rose-color, 3-6 lines long: pods, glabrous (or slightly pubescent when young), spreading and arcuate,  $2\frac{1}{2}$  in. long by a line wide, acutish, the stigma sessile: seeds broadly elliptical."—Am ac pr 22:467. Quartz mts., Nevada. San Bernardino mts., Cal. (Parish 1302).

**THYSANOCARPUS CONCHULIFERUS**

"Glabrous and glaucous, 3-10 inches high, rather stout and branching: uppermost leaves remotely toothed, the middle and lower as remotely linear-lobed (the lobes straight and divaricate), all except the lowest auriculate-clasping: racemes short and dense: petals spatulate-oblong, nearly  $1\frac{1}{2}$  lines long, light purple: samara  $1\frac{1}{2}$  lines long, cymbiform, the somewhat conduplicate margin parted into spat-

ulate lobes, or these coherent above, leaving narrowly oblong perforations: style  $\frac{1}{2}$  line long beyond the margin of the fruit: pedicels  $\frac{1}{2}$  inch long, firm but recurved."—Greene, Pittonia 1:31 (amended description).

"Common on mossy shelves and crevices of the high rocky summits and northward slopes of Santa Cruz Island."—Greene, Torr cl b 13:218 (N 1886, with earliest description).

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