MALLOW FAMILY

Man, 71, 71, Call, 635-635. 1925

crenate, scarcely or not at all lobed to strongly 3-lobed or somewhat 5-lobed; calyx 3 to 4 lines long, usually shorter than the fruit; bractlets filiform, hardly longer than calyx-tube; petals rose-red to brick-red, notched at apex, 5 to 10 lines long, the claws with a dense ciliate tuft of hairs on each side at base; anthers purple; stigmas black or purple; sides of carpels glabrous, smooth-chartaceous opposite the upper seed, reticulate-scarious opposite the lower seed, canescent on the back.—Desert slopes and desert ranges, 2000 to 6000 ft.: Cuyamaca, San Jacinto and San Bernardino mountains; Colorado and Mohave deserts; n. to Inyo Co.; e. to Ariz.

- 13. S. pulchélla Jepson n. sp. Stems erect from a woody root-crown, making a bushy plant 2 to 3 ft. high, covered with a close white felt; leaves roundish-cordate in outline, dentate, not lobed or somewhat 3 or 5-lobed, stellate-canescent, soon green above, ½ to 1 in. long, on petioles ½ to 1½ in. long; flowers in a loose narrow panicle; calyx rusty-puberulent, its tube 1¾ to 2 lines long (about as long as the carpels), the lobes ovate-lanceolate, to 5 lines long; petals deep apricot-color, ¾ to 1 in. long; ovary covered with a dense white felt; carpels smooth on sides, densely woolly on back.—Panamint Range, Inyo Co. (Hanaupah Cañon, 4000 ft., Jepson 7064, type).
- 14. S. purpurea Parish. Similar to no. 11; stems clothed with a close, fine whitish felt.—Sw. Colorado Desert: Mountain Spr., San Diego Co.; Coyote Well. (S. violacea M. & J.)
- 15. S. eremicòla Jepson n. sp. Stems slender, erect or ascending, several from the thick root-crown, 12 to 17 in. high, green and glabrous or nearly so; leaves roundish-cordate in outline, 4 to 11 lines long, 3 to 5-parted with the lobes again cleft and toothed, thinly stellate-puberulent, green; flowers few in a loose and narrow nearly naked panicle; calyx woolly, its tube 1½ to 2 lines long, almost as long as the fruit, the lobes lanceolate, acuminate, 4 to 5 lines long; bractlets filiform, about as long as the tube; petals apricot-color, 7 to 8 lines long; ovules 2; sides of carpels smooth.—Panamint Mts. (Emigrant Cañon, 4200 ft., Jepson 7120, type).
- 16. S. angustifòlia Don var. cuspidata Gray. Stems many from the base, 3 to 4 ft. high; herbage finely puberulent, the older stems and upper side of leaves glabrate; leaves oblong to linear-lanceolate, sometimes with 1 more or less obscure lobe at the base angle on each side, minutely crenulate, ¾ to 3 in. long; flowers in few-flowered clusters in the axils of the upper leaves; calyx-lobes ovate, acuminate; corolla saffron-red, 4 to 6 lines long; carpels glabrous on the sides, the sides smooth above, reticulate below.—Colorado Desert, rare; e. to Ariz. and Col.
- 17. S. féndleri Gray var. califórnica Parish. Stems several from the base, woody below, forming an erect shrub 2 to 4 ft. high; herbage glabrate or minutely stellate-flocculent; leaves 1 to 3½ in. long, 3-lobed, with sharply acute sinuses; the lateral lobes small, the central one ovate to oblong and 3 to 5 times as long as the lateral, the margin irregularly crenate; flowers in clusters in the axils of the reduced upper leaves, or the inflorescence becoming a somewhat spicate panicle; petals salmon-red, 3½ to 5 lines long; carpels smooth on sides opposite upper seeds, finely reticulate opposite lower seed, finely puberulent or glabrate on back.—Mesas and washes, 25 to 1500 ft.: San Bernardino Valley; Conchilla Desert.
- 18. S. acerifòlia Nutt. Stems erect, 2 to 3 ft. high; herbage green, finely puberulent; leaves maple-like, deeply 5-lobed (the lobes acute, irregularly serrate), truncate or subcordate at base, 2 to 6½ in. long; petioles ½ to 3¼ in. long; flower-clusters sessile or nearly so in the upper axils and thus interruptedly spicate at the summit of the branches; calyx-lobes ovate, acuminate, shorter than the mature carpels; petals rose-color, ¾ to 1 in. long; back of carpels densely puberulent and also conspicuously covered with long ascending bristles.—Cañons, n. Humboldt Co. (Bald Mt.; Three Creeks); n. to Wash.
- 19. S. bakeri Jepson n. sp. Stems erect, several from the root-crown, 1 to 14 ft. high; herbage finely puberulent; leaves 3 to 12 lines long, the lower sub-orbicular, truncatish at base, crenately lobed and crenate, the upper

leaves often cuneate-obovate in outline, irregularly serrate on upper half or somewhat 3-lobed, ¾ to 1 in. long; flowers mostly solitary in the upper axils, on peduncles 2 to 7 lines long; calyx-lobes round-ovate, abruptly acute; petals rose-pink, ¾ in. long; carpels closely puberulent and also densely covered with long ascending dull-white bristles.—Lava beds on the boundary of Shasta and Modoc Cos. (Fall River Valley, M. S. Baker, type).

8. HORSFÓRDIA Grav

Woody plants, the herbage yellowish or greenish-yellow, covered with a dense felt. Leaves ovate-lanceolate, cordate at base, leathery, subentire or irregularly erosulate. Flowers 1 to 3 in the axils, peduncled. Bractlets none. Corolla salmon-color. Carpels 3-ovuled, 1 to 3-seeded, at maturity 2-valved above, the valves spreading, scarious and wing-like, 3 to 4 times as long as the lower seed-bearing portion which is firm and reticulate. (F. H. Horsford of Vermont, botanical collector.)

1. H. newbérryi (Wats.) Gray. Stems erect, 5 to 8 ft. high, with lateral branches on upper %; stems and petioles yellow stellate-tomentose, the leaves with a somewhat paler or greenish-yellow but very dense and fine stellate-tomentum; leaves 1½ to 2¾ in. long, on petioles ¼ to 1¼ in. long; petals orbicular, rotate, 3 lines long; stamen-tube with simple spreading non-glandular hairs; anthers yellow; stigmas yellow; fruit 4 lines long, the wings ovate.—Sw. Colorado Desert: Palm Cañon of San Isidro; Carrizo Mt.; Signal Mt.; e. to Ariz., s. to Mex.

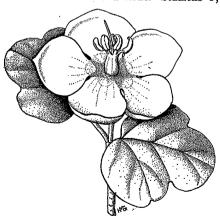
STERCULIACEAE. STERCULIA FAMILY

Shrubs or trees with alternate leaves and perfect regular or nearly regular 5-merous flowers. Stamens united below into a tube. Ovary superior, 5 (or 4)-celled. Style in ours one, stigmatic at apex. Fruit a capsule.

Flowers yellow, showy; petals none; calyx-lobes with a conspicuous gland at base; ovary not stiped. . . . 1. Fremontial Flowers brownish, minute; petal claws filiform, ending in a hood; calyx glands none; ovary stipitate. . . 2. Ayenja

1. FREMÓNTIA Torr.

Evergreen shrub with small often lobed leaves and stellate pubescence. Flowers showy, short-pediceled, solitary and axillary on the branchlets. Stipules caducous. Bractlets 3 to 5, small. Calyx yellow and corolla-like, deeply 5-cleft into round-ovate lobes or sepals; these imbricated in the bud, the 3 inner a little larger, all with a rounded and sharply defined glandular area at base. Corolla none. Stamens 5; filaments united to the middle.



629. Fremontia californica Torr.; fl. branchlet x 1.

Capsule 4 or 5-celled, loculicidally dehiscent. (General John C. Fremont, Pathfinder of the Rocky Mts. and Sierra Nevada, and first United States Senator from California, who discovered it.)

1. F. califórnica Torr. FLANNEL BUSH. Fig. 629. Loosely branching shrub 6 to 10 ft. high, sometimes a small tree up to 18 ft. high; branches tough and flexible, with many short leaf-and flower-bearing branchlets or spurs; leaves green above, covered beneath with a dense gray or whitish felt, ¼ to 1 in. long, or on sterile shoots somewhat larger; petioles short; calyx somewhat flannel-like, 1½ to 2 in. broad, persistent, the lobes