

BUDDLEJACEAE BUTTERFLY BUSH FAMILY

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Shrubs or trees, rarely subshrubs. LEAVES simple, opposite, very rarely alternate, often with stellate and glandular hairs. INFLORESCENCES of cymose clusters, these paniculate, racemose or verticillate. FLOWERS perfect or imperfect, hypogynous, actinomorphic or slightly zygomorphic, 4-merous, rarely 5-merous; sepals united; petals united; stamens adnate to corolla; pistil with 2 carpels and 2 locules; ovary superior. FRUITS usually capsular, primarily septicidal. --8 genera, 150 spp., chiefly of tropical and subtropical regions.

Buddleja L. Butterfly Bush

Shrubs or trees. LEAVES opposite (except in a few Asiatic spp.), often gray tomentose, the margin mostly serrate-dentate. INFLORESCENCES usually terminal; flowers in compact cymes in axils of leaves or bracts. FLOWERS perfect or functionally dioecious, 4-merous, fragrant; calyx tubular; corolla tubular, campanulate, funnelform or salverform; stamens sessile or subsessile, inserted in tube or at throat of corolla; ovary with numerous ovules. FRUITS capsules, rarely berries. --Ca. 90 spp. in sw U.S., Mex, C. and S. Amer., s Afr., and Asia. (for A. Buddle, English botanist). Norman, E. M. 1967. *Gentes Herbarum* 10: 47-114.

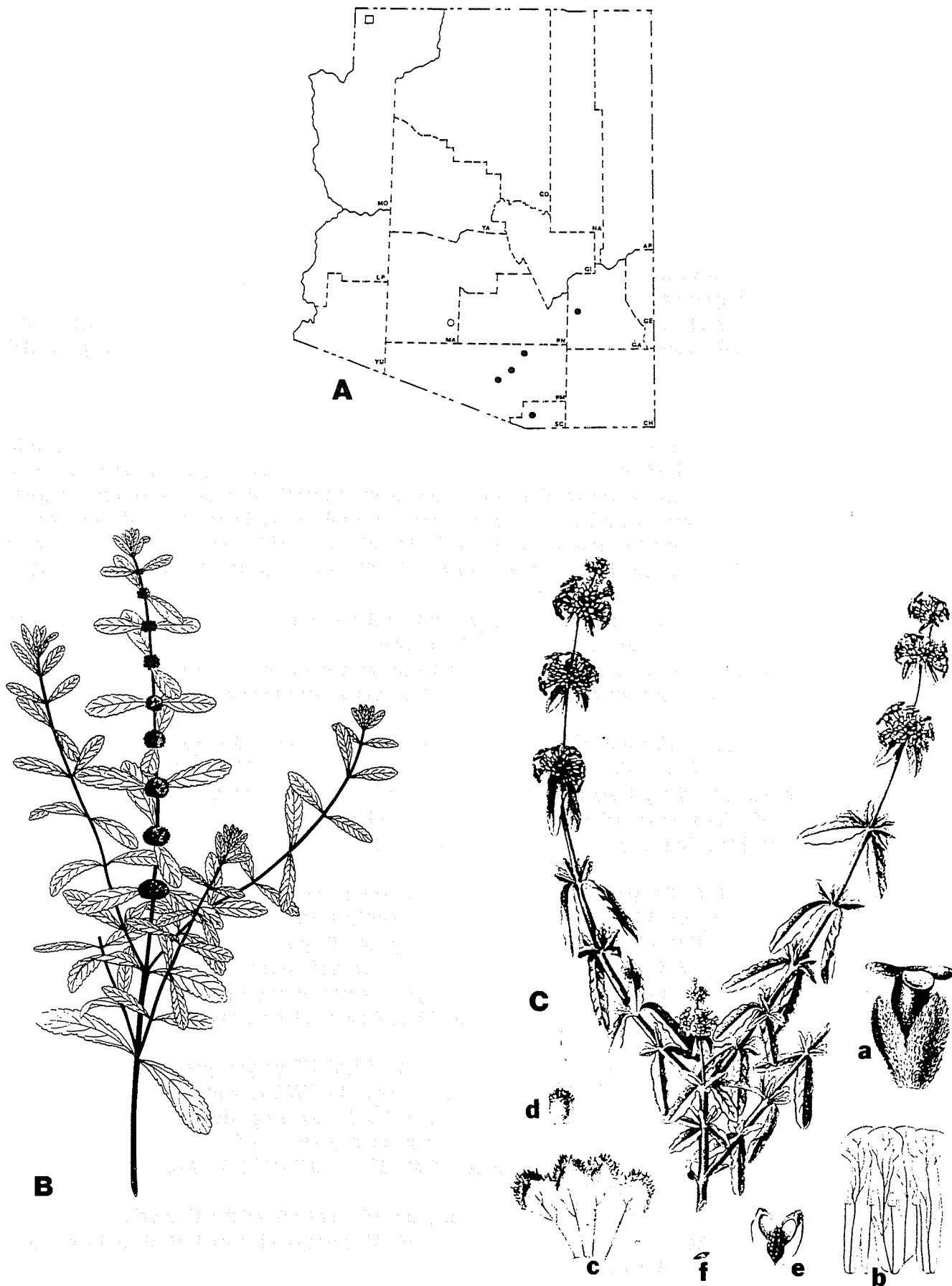
1. Shrubs 1.5-4.0 m tall; leaves ovate or elliptic, greater than 3 cm long *B. sessiliflora*
- 1' Shrubs 0.3-1.2 m tall; leaves linear to oblong, 1-3 cm long.
 2. Cymose clusters 9-13 mm in diameter; corolla tube ca. 4 times as long as lobes *B. utahensis*
 - 2' Cymose cluster 4-7 mm in diameter; corolla tube 1-2 times as long as lobes *B. scordioides*

Buddleja scordioides H. B. K. (resembling *Teucrium scordium*). Shrubs to 1.2 m tall. LEAVES grayish green, oblong to oblanceolate, 1-3 cm long. INFLORESCENCE of 3-12 sessile compact cymes. FLOWERS with calyx 1.7-2.5 mm long; corolla yellow, funnelform, 2-3 mm long. CAPSULES 1.5-2.5 mm long, indehiscent. SEEDS several, subglobose, wingless, 0.7-0.8 mm in diameter. --Granite boulders, se end of Sierra Estrella Mts.: Maricopa Co.; Jun-Jul; s NM, w TX, n and c Mex.

Buddleja sessiliflora H. B. K. (sessile-flowered). --Shrubs to 4 m tall. LEAVES dimorphic, the lower ovate, 12-23 cm long, the upper elliptic or lanceolate, shorter. INFLORESCENCES of 5-15 compact cymes, 1.4-3 cm in diameter. FLOWERS with calyx 2.7-4.5 mm long; corolla greenish yellow, funnelform, 4.2-6 mm long. CAPSULES 4-4.5 mm long, dehiscence septicidal and loculicidal. SEEDS numerous, subfusiform, winged, 1.2-1.4 mm long. [*B. pringlei* A. Gray]. --Roadsides and fields: Graham, Pima, Santa Cruz cos.; 700-1300 m (2300-4300 ft); Feb-Apr; se TX; Mex. (except Chihuahuan Desert).

Buddleja utahensis Coville (of Utah). --Shrubs to 1 m tall. LEAVES grayish green, linear to oblong, 2-3 cm long. INFLORESCENCES of 3-7 sessile compact cymes. FLOWERS with calyx 3.5-5 mm long; corolla yellow, salverform, 5-6.5 mm long. CAPSULES 2-2.5 mm long, dehiscence septicidal and loculicidal. SEEDS numerous, globose, wingless, 0.4 mm in diameter. --Rocky limestone slopes in sagebrush of Mohave Desert; Virgin R., n Mojave Co.; 600-800 m (2000-2500 ft); Apr-Jul; e CA, s NV, sw UT.

A similar species, *Buddleja marrubifolia* Benth. (resembling *Marrubium*), of the Chihuahuan Desert, is cultivated in s AZ. It can be recognized by its ovate to rhomboid tomentose leaves 1-3(-6) cm long and its yellowish-orange flowers in a globose terminal head.



Buddlejaceae Fig. 1. A, distributions of *Buddleja scordioides* (open circle), *B. sessiliflora* (closed circle), and *B. utahensis* (open square). B, *B. scordioides*, Nov. gen. sp. 2: 278 ed. fol. t. 183. 1818, habit x 1.5. C, *B. utahensis* Cov., Contrib. U. S. Natl. Herb. 4, t. 12. 1893, habit x 1.5, a, flower, b, open corolla, c, open calyx, d, pistil, e, capsule, f, seed, a-f x 4.5.