

**A NEW SPECIES OF SCHIEDEA**

By

**EDWARD L. CAUM AND EDWARD Y. HOSAKA**

BERNICE P. BISHOP MUSEUM

OCCASIONAL PAPERS

VOLUME XI, NUMBER 23

HONOLULU, HAWAII  
PUBLISHED BY THE MUSEUM  
April 10, 1936



## A NEW SPECIES OF SCHIEDEA

By EDWARD L. CAUM AND EDWARD Y. HOSAKA

### **Schiedea kealiae**, new species.

Suffrutex ad 50 cm altus, glaber, subtus lignosus. Folia trinervata, lato-lanceolata, 4-8 cm longa, 6-11 mm lata, apice acuminatum, basi angustum. Inflorescentia terminalis, paniculata, 2-3-fid, rami oppositi, folii nodorum reducti. Pediculi semi-erecti, filiformi. Bracteoli lato-lanceolati. Sepala ovata, acuta, virida, 2.5 mm alta. Stamina et staminodia 15, biseriatim; series exteriora 5 staminodia lato-triangularia sepala opposita et 5 staminodia, series interiora 5 staminodia staminodiorum lata bases affixa. Styli 3-4, capsula ovoidea, semina submuricata.

An erect to semi-decumbent under-shrub, to about 50 cm tall, glabrous terete and woody below, the branches herbaceous and angular above, the nodes swollen. Leaves glabrous, dark green above, paler beneath, broad-lanceolate, 4-8 cm long, 6-11 mm wide at the widest part, acuminate at the apex, narrowed to the clasping base, this very pale in color, prominently 3-nerved, thin chartaceous, the margins thickened. Inflorescence terminal, thyrsoid paniculate, contracted, 4-8 cm high, projecting beyond the leaves, 2-3 times compound, the branches opposite, at each node of the rhachis a pair of progressively reduced leaves. Pedicels nearly erect, very slender filiform, 4-7 mm long, the broad-lanceolate bractlets 1-2 mm long by 0.5 mm wide, green with narrow hyaline margins. Sepals ovate, acute, green, 2.5 mm long by 1 mm wide, faintly 3-nerved. Staminal cup 2-ranked, the outer rank consisting of 5 broad-triangular staminodia, lying opposite the sepals, and 5 stamens alternating with them, the inner rank of 5 stamens affixed at the bases of the staminodes. Staminodes about half the length of the sepals, the stamens slightly exceeding the sepals. Styles 3 or 4, about 1 mm long, curling. Capsule ovoid-pyramidal, 3 mm high, enclosed by the calyx, splitting at maturity into valves corresponding in number to the styles, the free-central placenta split into several bristle-like processes. Seeds minute, orbicular-reniform, brown, crustaceous, slightly muricate.

Oahu, Waianae Mountains, on dry cliffs and among rocks along the trail on the Kealia side of the Kaena-Kealia boundary ridge, where it forms a conspicuous part of the vegetation at elevations of 500 to 800 feet, growing in company with *Bidens*, *Lepidium*, *Eragrostis* and other plants that favor such a location. Collected February 14, 1913, by C. N. Forbes no. 1838-O, H. A. Pilsbry and C. M. Cooke, Jr. at Kawaihapai (probably at or very near the type station); September 23, 1931, O. Degener no. 5923; September 25, 1934, E. H. Bryan, Jr. no. 786, O. H. Swezey and d'A. A. Welch; August 4, 1935, E. Y. Hosaka no. 1292; February 2, 1936, F. R. Fosberg no. 12853; February 2, 1936, E. Y. Hosaka no. 1320 (type in B. P. Bishop Museum).



FIGURE 1—*Schiedea kealiae*: a, habit; b, c, flower; d, capsule; e, seed.

*Schiedea kealiae* is closely allied to *S. ligustrina* Chamisso and Schlechtendal and *S. hookeri* Gray, both from the same general region. From *S. ligustrina* it differs principally in the wider triplinerved leaves and the more open panicle, and from *S. Hookeri* principally in the much more contracted almost glabrous panicle.