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Questions about FNA Provisional Publications may be directed to Ms. Heidi Schmidt, Managing Editor, Flora of North America Association, at heidi.schmidt@mobot.org.

Christopher P. Randle

Herbs, perennial; obligate root hemiparasites, caudex woody.  
Stems erect, not succulent, hirsutulous.  Leaves cauline, in whorls of 3, not fleshy or leathery; petiole absent; blade margins entire.  Inflorescences terminal, racemes; bracts present.  Pedicels present; bracteoles absent.  Flowers: sepals 5, calyx nearly radially symmetric, broadly campanulate, lobes deltate; petals 5, corolla yellow, proximally inflated and subrotate, abaxial lobes 3, adaxial lobes 2; stamens 4, inserted at base of corolla, didynamous, filaments glabrescent proximally, villous distally, staminode 0; ovary 2-locular, placentation axile; stigma clavate.  Capsules symmetric, dehiscence loculicidal.  Seeds 100+, dark brown, ellipsoid, +/- winged.

Species 1: sw United States, n Mexico.

Brachystigma is unispecific and narrowly restricted to dry mountain slopes of southeastern Arizona, southwestern New Mexico, and northern Mexico.  F. W. Pennell (1928) differentiated it from the similar genus Agalinis by its yellow
corolla, glabrous anthers, capitate stigma, more acute capsule, and winged seeds. Phylogenetic analysis of three chloroplast genes supports this distinction (M. C. Neel and M. P. Cummings 2004). Further, *Brachystigma* may be differentiated from closely related genera *Aureolaria*, *Dasistoma*, and *Seymeria* by its leaves arranged in whorls of three, a character unique among the Orobanchaceae.


Plants unbranched or branching at the rhizome. Stems slender, 30--55 cm. Leaves filiform-linear, 30--60 x 2--3 mm, proximal leaves longer than distal. Inflorescences racemes of paired flowers, occupying to 2/3 the height of stem, bracts resembling foliage leaves. Pedicels 11--30 mm. Flowers 10--26 x 7--16 mm; calyx 3--5 x 4--7 mm, lobes broadly deltate, 1--1.5 mm; corolla
abruptly inflating just beyond calyx, 24--30 mm wide, pubescent externally, glabrous internally, lobes orbicular; filaments 8--11 mm, anthers included, base bluntly sagittate, glabrous, locules equal, 5 mm; ovary ovoid, 4--5 x 2--4 mm, style incurring at maturity, 5--6 mm. Capsules with persistent calyces, globose-ovoid. 8--10 x 5--8 mm. Seeds reticulate, 2 mm.