

Key to the species of *Gibsoniothamnus*

1. Calyx lobes 20–25 mm long, densely villose; stems and leaves villose 7. *G. mirificus*
1. Calyx lobes <15 mm long, glabrous to pubescent; stems and leaves glabrous to pubescent.
 2. Calyx broadly alate, the wings 3–5 mm wide.
 3. Calyx magenta to pink, the tube 4–6 mm long, the lobes linear; leaves chartaceous to subcoriaceous 1. *G. alatus*
 3. Calyx red to purple, the tube 6–8 mm long, the lobes narrowly triangular; leaves coriaceous to subcoriaceous 9. *G. stellatus*
 2. Calyx exalate, narrowly winged, or angled.
 4. Calyx tube <5 mm long; leaves anisophyllous, flexible.
 5. Branches terete to slightly angled; calyx green or red to purple, the lobes narrowly triangulate.
 6. Calyx lobes <5 mm long, flat; leaves equal to subequal; corolla >2 cm long 3. *G. cornutus*
 6. Calyx lobes >5 mm long, slightly winged; leaves anisophyllous; corolla <2.5 cm long.
 7. Corolla magenta to pink; calyx lobes 4–6 mm long; branches strongly angled 4. *G. epiphyticus*
 7. Corolla red to purple; calyx lobes 1–3 mm long; branches terete to slightly angled 8. *G. parvifolius*
 5. Branches strongly angled; calyx pink to magenta, the lobes linear.
 8. Calyx lobes >7 mm long; corolla red to purple or white; pedicels >2 cm long 11. *G. versicolor*
 8. Calyx lobes <6 mm long; corolla pink to magenta; pedicels <1.8 cm long 2. *G. allenii*
 4. Calyx tube >5 mm long; leaves equal to subequal, stiff.
 9. Pedicels 1.5–2 cm long; calyx truncate, without lobes 10. *G. truncatus*
 9. Pedicels 2–3.5 cm long; calyx lobes triangular, or narrowly triangular.
 10. Corolla tube <3 cm long; staminode 4–5 mm long; calyx magenta to pink 6. *G. latidentatus*
 10. Corolla tube >3 cm long; staminode 10–20 mm long; calyx red to purple 5. *G. grandiflorus*