

from base, $\frac{1}{2}$ to 1 ft. high; herbage hispid with appressed and spreading hairs; leaves lanceolate or linear, $\frac{1}{2}$ to 1 in. long; spikes naked, in 2s or 3s, finally much elongated so that the flowers are remote; calyx-segments linear, scarcely 1 line long, in fruit often 2 to 3 or 4 lines long, hispid and armed with bristles 1 to $1\frac{1}{2}$ lines long; corolla 2 lines broad; nutlets ovate, acuminate, roughened with unusually sharp-pointed papillae, the ventral groove open and widening at base.—Hills and valleys, 1000 to 4000 ft.: coastal S. Cal.; Colorado and Mohave deserts; Tehachapi Mts.; Inyo Co. Var. *DUMETORUM* Jepson n. comb. Diffuse flexuous branches $\frac{1}{2}$ to 1 ft. high; leaves lanceolate, $\frac{1}{2}$ to 1 in. long, densely studded with the conspicuous white pustules at the base of the hairs; spikes single, in 2s or 3s, finally elongating so that the flowers are distant.—Mohave Desert and bordering ranges. (*Krynitzkia dumetorum* Greene.)

12. *C. utahensis* Greene. Stem branched from base, $\frac{1}{2}$ to 1 ft. high; herbage strigose-hispid; leaves linear, $\frac{1}{4}$ to $\frac{3}{4}$ in. long; spikes in 2s or 3s, very short; calyx 1 line long, rather densely silky-pubescent, not at all bristly; corolla $1\frac{1}{2}$ lines broad; nutlets (often solitary and adhering closely to gynobase) ovate-acuminate, sharp on the edges, $1\frac{1}{4}$ lines long, papillate and somewhat nerved dorsally, the ventral groove gradually widening toward base.—Desert valleys, 2000 to 4000 ft.: cent. and e. Mohave Desert; Inyo Co.; e. to Utah. May.

13. *C. ptèrocárya* Greene. Stem slender and loosely branched or diffusely much branched from base, 6 to 9 in. high; herbage hispid with appressed or spreading hairs; leaves linear, $\frac{1}{2}$ to 1 in. long; spikes short, at first glomerate, in 2s or 3s; calyx in fruit 2 lines long, the segments with a few stiff bristles, linear at first, in fruit becoming ovate, the midrib prominent; corolla not 1 line broad; nutlets ovate, papillate on the back, the edges produced into broad scarious somewhat crenate wings (or 1 nutlet wingless), the ventral groove open or closed, with open forks at base.—Colorado and Mohave deserts; e. side Sierra Nevada from Inyo Co. to Lassen Co.; n. to Wash., e. to Tex. Apr.-June. Var. *PURPUSII* Jepson n. var. Inflorescence denser; calyces smaller; nutlets with narrow wing (one wingless).—Argus Mts. (*Purpus* 5433, type).