

**Peccania** Massal. in Arnold  
(LICHINACEAE)

After Fink, Herre, and Wetmore, 1985

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Thallus minutely fruticose, of  $\pm$  sparsely branched, erect lobes, forming small cushions or mats, olive to black, sometimes gray-pruinose, ecorticate, attached by "rhizines" (rhizoidal hyphae); tissue loose. Apothecia lateral to subterminal, constricted at base; disc initially often closed, later open and flat; thalloid margin thick; hypothecium colorless or pale; paraphyses thick, unbranched; asci clavate, unitunicate, 8-16(or more?)-spored; spores ovoid to ellipsoid, simple, hyaline, thin-walled. Pycnidia immersed; fulcrum ?exobasidial; pycnospores ellipsoid to acicular. Photobiont Gloeocapsa, algal sheaths yellowish toward the cortex ("Xanthocapsa"), embedded especially at the margins of the thallus. Usually on steep calcareous faces protected from rain and subject to seepage.

**1. Forming "polsters" (cushions); thallus foliose or fruticulose**, attached to substrate at a single point. ....2

**1. Not forming polsters; thallus fruticulose.** .....3

**2. Spores 8, subglobose.** Thallus black, indeterminate, minutely fruticulose, attached to substrate at a single point, forming subcrustaceous pulvinate nodules, appearing granulose; branches numerous, irregular,  $\pm$  knobbed, the tips often enlarged and broken up into several blunt points; surface matt. Apothecia rare; spores 7.5  $\mu$ m diam. On soil over rock. Arizona, New Mexico, California, Nevada. ....P. arizonica (Tuck.) Herre

**2. Spores 8-16 per ascus, oblong to ellipsoid, 5-9 x 3-4  $\mu$ m.** Thallus black, with stipitate, erect, clavate, lobate divisions, umbilicate, lobulate above, rigid. Apothecia 0.4-0.8 mm, subterminal, slightly immersed to adnate, the disc becoming convex, black; thalloid exciple thin, black, soon disappearing. Hymenium I+ blue. Paraphyses very distinct. On calcareous rock or soil, Kansas, Minnesota and New Mexico. ....P. kansana

**3. On soil. Lobes small.** Thallus black, with coralloid, upright cylindrical lobes with tips slightly swollen, 87-175  $\mu$ m across. Apothecia numerous, 0.4-0.6 mm diameter. Spores 8-12 x 4-5  $\mu$ m. North Dakota. ....P. subnigra

**3. On calcareous rock.** Lobes large. Thallus attached at the center, nodulose-lobulate. Apothecia unknown. Spermatogonia situate similarly to apothecia, containing filiform, bowed spermatia, upon simple sterigmata). Algae 6-11  $\mu$ m diameter, scattered among conspicuous filaments. Texas. ....P. texana

**Literature**

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