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Some Lichens from Southern Colorado

By JAMES H. CRAFT

The cryptogams of the San Juan and Sangre de Cristo mountains of southern Colorado have not attracted the attention of many botanists during the past half century. The published ecological and floristic studies of North American cryptogams show few records from any portion of Colorado further south than Pike's Peak. Llano (2) and Thomson (3) make but incidental mention of lichens collected by visitors in 1899, 1937, and 1942. The collections listed below constitute a material addition to this very meagre record. All these specimens, collected in the period between February, 1950-September, 1951, were found at altitudes between 7600 and 9500 feet except *Peltigera scabrosa* which was collected at 11,000 feet.

The writer gratefully acknowledges the generous assistance of Dr. A. W. C. T. Herre who made most of the species determinations.

List of Lichens

1. *Acarospora oxytona* (Ach.) Fries. Conejos Co. On igneous rocks.
2. *Alectoria jubata* (L.) Nyl. Huerfano Co. On lava and old wood.
3. *Buellia lauri-cassiae* (Fee) Müll. Arg. Conejos Co., On alders.
4. *Caloplaca elegans* (Link) Th. Fries. Conejos Co. On rocks.
5. *Candelariella vitellina* (Ehrh.) Müll. Arg. Conejos Co. On rocks and old wood.
6. *Cetraria pinastri* (Scop.) Rohling. Archuleta Co. On bark of a fallen spruce.
7. *Cladonia cariosa* forma *squamulosa* (Müll. Arg.) Vainio. La Plata Co. On soil.
8. *Cladonia chlorophaea* (Floerke) Spreng. Huerfano, Conejos, and Mineral Counties. On soil and rotting wood.
9. *Cladonia coniocrea* (Floerke) Spreng. Mineral Co. On rotting wood.
10. *Cladonia fimbriata* (L.) E. Fries. La Plata Co. On soil.
11. *Cladonia pyxidata* (I.) Hoffman. Conejos Co. On soil and rotten wood.
12. *Dermatocarpon miniatum* (L.) Mann. Mineral Co. On igneous rocks.
13. *Dermatocarpon miniatum* var. *complicatum* (Lightf.) Th. Fries. Mineral Co. On rock.
14. *Lecanora hageni* Ach. Archuleta Co. On rocks, trees, and old wood.
15. *Lecanora rubina* (Vill.) Ach. Costilla Co. On rocks, rarely on old wood.
16. *Lecidea atro-brunnea* Ach. Archuleta Co. On granitic rocks.
17. *Lecidea elaeochroma* Ach. Archuleta Co. On bark.
18. *Leptogium hildenbrandi* (Garovagl.) Nyl. Archuleta Co.
19. *Nephroma laevigatum* Ach. Archuleta Co. On bark.
20. *Ochrolechia upsaliensis* (L.) Mass. Mineral Co. Growing over *Selaginella*.

21. *Parmelia chlorochroa* Tuck. Cited in Fink (1.) as *Parmelia molliuscula* Ach. Huerfano, Costilla, Saguache, and Hinsdale Counties. Grows very loosely attached to the soil and is readily blown about by the wind.
22. *Parmelia conspersa* (Ehrh.) Ach. Conejos, Costilla, Huerfano, Mineral, Hinsdale, and La Plata Counties. One of the most prominent saxicolous lichens of the region.
23. *Parmelia furfuracea* (L.) Ach. Fink cites this as *Evernia furfuracea* (L.) Mann. Archuleta Co. On trees.
24. *Parmelia olivacea* (L.) Ach. La Plata and Conejos Counties. On *Pinus edulis*.
25. *Peltigera apthosa* (L.) Willd. Conejos, Archuleta and Huerfano Counties. On soil, rotting wood, and over moss. Not common.
29. *Peltigera venosa* (L.) Baumg. Huerfano Co. On moist soil. dale, Saguache, and Alamosa Counties. On soil, rotting wood, and over moss. One of our commonest lichens of the forest floor.
27. *Peltigera canina* var. *spongiosa* Tuck. Tuerfano and Mineral Counties. On soil and over moss. Not previously reported from Colorado by Thomson (3.).
28. *Peltigera scabrosa* Th. Fries. Mineral Co. A circumpolar arctic and arctic-alpine species. Not previously reported from Colorado. On soil.
29. *Peltigera venosa* (L.) Baumg. Huerfano Co. On moist soil.
30. *Pertusaria leioplaca* (Ach.) D.C. Archuleta Co. On trees.
31. *Physcia pulverulenta* (Schreb.) Nyl. Archuleta Co. On trees and old wood.
32. *Physcia stellaris* (L.) Nyl. Mineral and Huerfano Counties. On trees and rocks.
33. *Umbilicaria papulosa* (Ach.) Nyl. Renamed, by Llano (2.), as *Lasallia papulosa* (Ach. Llano. Mineral Co. On igneous rock.
34. *Usnea glabrata* (Ach.) Vainio. Conejos Co. On conifers and old wood.
35. *Xanthoria fallax* (Hepp) Arnold. Huerfano Co. On dead saplings of *Robinia*.
36. *Xanthoria parietina* (L.) Beltr. Cited as *Teloschistes parietinus* (L.) Norm, in Fink (1.) La Plata Co. On old wood.

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