

Cryptogramme acrostichoides, R. Br.—New Geyser Basin on Shoshone Lake, September 6.

Aspidium Lonchitis, Swartz.—Upper Téton Cañon, July 28.

Aspidium spinulosum, Swartz.—Eastern cañons of the Téton Range, September.

Cystopteris fragilis, Benth.—Téton Range; along Snake River.

Botrychium lunarioides, Swartz., var. *obliquum*, Gray.—Common in both Geyser Basins, August.

Woodsia scopulina, D. C. Eaton.—Lower Falls of the Yellowstone, August; Eastern cañons of the Téton Range, September.

Woodsia Oregana, D. C. Eaton.—Mountains near Ogden, Utah, June.

LYCOPODIACEÆ.

Selaginella rupestris, Spreng.—Common everywhere on the route.

HYDROPTERIDES.

Marsilia vestita, Hook. and Grev.—In the water of Henry's Fork of Snake River, July 18.

CHARACEÆ.

Chara fragilis? Desv., no fruit.—Yellowstone Lake, August 23.

Nitella ———, (?) Species undeterminable.

MUSCI.

Determined by Leo Lesquereux, Esq.

Sphagnum acutifolium, Ehrh.—Shoshone Lake, September.

Dicranum interruptum, Bryol. Eur.—Upper Téton Cañon, July 24.

Dicranum scoparium, Hedw., (Bryol. Eur.)—Upper Téton Cañon, July 24.

Ceratodon purpureus, Brid.—Téton Cañon, July; Snake River, September; Fort Hall, Idaho, October.

Encalypta vulgaris, Hedw.—Near Fort Hall, Idaho, July.

Grimmia (*Schistidium*) *conferta*, Funk.—Near Fort Hall, Idaho; Yellowstone Valley, August.

Grimmia Scouleri, Müll.—Yellowstone Valley, August.

Grimmia calyptrata, Hook.—Fort Hall, Idaho, July.

Racomitrium fasciculare, Brid.—Hot springs near Ogden, Utah, June; Henry's Fork of Snake River, July; Jackson's Lake, September.

Racomitrium fasciculare, Brid., var.—Téton Cañon, July 26.

Racomitrium lanuginosum, Brid.—Upper Téton Cañon, July 26.

Hedwigia ciliata, Ehrh.—Shoshone Lake, September.

Bartramia fontana, Brid.—Hot springs near Ogden, Utah, June; Fort Hall, Idaho; Téton Cañon, July; Fire-Hole Basin; Yellowstone Valley, August; Jackson's Lake, September; Snake River Cañon, October.

Bartramia fontana, Brid., var.—Téton Cañon, July 24.

Bryum pyriforme, Hedw.—Yellowstone Lake, August 23.

Bryum intermedium, Brid.—Téton Cañon, July 24; First Cañon of the Gallatin; Jackson's Lake, September.

Bryum bimum, Schreb.—First Cañon of the Gallatin, sterile; Fort Hall, Idaho, July.

- Bryum pseudo-triquetrum*, Bryol. Eur.—Shoshone Lake, September.
Bryum turbinatum, Hedw.—Upper Téton Cañon, July 26.
Bryum inclinatum, Hedw.—Upper Téton Cañon, July 26.
Bryum —, (?) undeterminable, no fruit.—Téton Cañon, July.
Bryum —, (?) undeterminable, no fruit.—Téton Basin, August.
Bryum —, (?) undeterminable.—Téton Range; elevation 10,000 feet, July 24.
Bryum —, (?) undeterminable, no fruit.—Téton Cañon, July 26.
Bryum —, (?) no fruit.—Yellowstone Valley, August 23.
Bryum —, (?) undeterminable, no fruit.—Jackson's Lake, September.
Bryum —, (?) undeterminable, no fruit.—Lower Fire-Hole Basin, August.
Mnium punctatum, Hedw.—Near Fort Hall, Idaho, July.
Mnium cuspidatum, Hedw.—Shoshone Lake, September.
Mnium affine, Bland.—Upper Téton Cañon, July 26.
Mnium —, (?) undeterminable.—Téton Cañon, July 24.
Aulacomnion palustre, Schwægr.—Téton Cañon, July 24; Shoshone Lake, September.
Timmia megapolitana, Hedw.—Fort Hall, Idaho, July; Téton Cañon, July 24.
Polytrichum juniperinum, Hedw.—Fort Hall, Idaho, July 5.
Fontinalis antipyretica, L.—Henry's Fork of Snake River, July 16.
Dichelyma falcatum, Myrin.—Snake River Valley, July 15.
Camptothecium Nevadense, Lesqx.—First Cañon of the Gallatin, September 18.
Climacium dendroides, Web. and Mohr.—Upper Cañon of the Madison, August.
Hypnum triquetrum, L. (*Hylocomium triquetrum*, Bryol. Eur.)—Téton Cañon, July 24; First Cañon of the Gallatin, September 18.
Hypnum splendens, Hedw. (*Hylocomium splendens*, Bryol. Eur.)—First Cañon of the Gallatin, September 18.
Hypnum giganteum, Schimp.—Upper Téton Cañon, July 26.
Hypnum uncinatum, Hedw.—Téton Cañon, July 24; Yellowstone Valley, August 23; First Canon of the Gallatin, September 18.
Hypnum fluitans, L.—Jackson's Lake, September.
Hypnum aduncum, Hedw.—Yellowstone Lake, August 23.
Hypnum salebrosum, Hoffm., (*Brachythecium salebrosum*, Bryol. Eur.)—Upper Téton Cañon, July 26.
Hypnum latum, Brid.—Yellowstone Valley, August 23.
Hypnum rivulare, Bruch., (*Brachythecium rivulare*, Bryol. Eur.)—Upper Téton Cañon, July 26.
Hypnum Nuttallii, Wils., (*Leskea Californica*, Hampe in Linæa, 1859, p. 460.)—Téton Cañon, July 24; First Cañon of the Gallatin, September, 18.
Hypnum riparium, L., (*Amblystegium riparium*, Bryol. Eur.)—Yellowstone Valley, August 23; Fire-Hole Basin, September.
Hypnum riparium, L., var.—Snake River Valley, July.
Hypnum filicinum, L.—First Cañon of the Gallatin, September 18.
Hypnum irriguum, Wils., var. *fallax*, Brid.—Near Fort Hall, Idaho, July 5.

HEPATICÆ.

- Riccia crystallina*, L.—Téton Cañon, July 26.
Marchantia polymorpha, L.—Henry's Fork of Snake River, July; Shoshone Lake, September 6.

Fegatella conica, Corda.—Upper Téton Cañon, July 28; Lower Fire-Hole Basin, August.

LICHENS.

Determined by Henry Willey, Esq.

[The order is that of Tuckerman's *Genera Lichenum*.]

Evernia vulpina, Wulf.—On trees at the Grand Falls of the Yellowstone. Fertile. (1.)

Usnea trichodea, Ach.—In some of the specimens the fibrils are tipped with minute black points resembling spermogones, but no spermatia could be detected. (2.)

Alectoria jubata, Fr.—Shoshone Lake, September. Infertile. (3.)

Alectoria jubata, Fr., var. *implexa*, Fr.—On branches of Coniferæ. Infertile. (3a.)

Theloschistes parietinus, (L. Desf.) Nyl., var. *lychneus*, Schær.—On dead wood, Jackson's Lake, September. (4.)

Parmelia saxatilis, Ach.—Fragments. Infertile. (5.)

Parmelia conspersa, Ach.—Infertile fragments. (6.)

Parmelia physodes, Ach.—On branches. (7.)

Parmelia olivacea, Ach., var. *exasperata*, (D. N.)—Very small and scanty specimens on dead wood. (8.)

Umbilicaria polyphylla, Hoffm.—Shoshone Lake, September. Infertile. (9.)

Umbilicaria cylindrica, Ach. (?)—Infertile. (10.)

Umbilicaria hirsuta, Ach.—Infertile. (11.)

Umbilicaria rugifera, Nyl.—Téton Mountains, elevation 12,000 feet, July 29. (12.)

Peltigera aphthosa, Hoffm.—Mystic Lake, near Fort Ellis, Montana, July. (13.)

Peltigera canina, Hoffm.—Téton Cañon; hot springs, and elsewhere. (14.)

Peltigera canina, Hoffm., var. *spuria*, Ach.—Téton Cañon. (14 a.)

Solorina saccata, Ach., var. *spongiosa*, Nyl.—On the earth among Algae; Cañon Creek, Idaho, September. (14b.)

Placodium cladodes, Tuckerm.—Téton Mountains. Infertile. (15.)

Placodium coralloides, Tuckerm.—Téton Cañon, (16.)

Placodium murorum, (Hoffm.) D. C.—The specimens are numerous. (17.)

Placodium murorum D. C., var. *citrinum*, (Ach.) Nyl.—With the above, but less abundant. (17a.)

Placodium callopismum, Ach.—The specimens are numerous. (18.)

Placodium peliophyllum, Tuckerm., (Genera, p. 108.)—Thallus crustaceous and white at the center, at the circumference lacinate linear multifid, glaucous fuscous. Apothecia central crowded, the margin entire, disk-plane white, pruinose, cracked. Paraphyses articulate. Hymenial gelatine blue with iodine. Spores polar-bilocular, .016–21 min. long, .008–10 min. wide. On rocks, Fort Ellis, Montana. (19.)

The specimens are scanty, but I venture to refer it as above, though I have only seen the brief description cited.

Placodium variabile, (Pers.) Nyl. (?)—Thallus tartarous, rimose areolate, whitish. Apothecia sessile, the disk black. Spores polar-bilocular, .015–18 min. long, .007–9 min. wide. (20.)

The single fragment is very small, and hardly sufficient for satisfactory determination.



Willey, Henry. 1873. "Lichens collected by the United States expedition under Dr. F.V. Hayden to the Yellowstone region in 1872." *Annual report. United States Geological and Geographical Survey of the Territories. 1st-12th, 1867-1878* 790–792.

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