

been gathered within an area of four square miles, which area could still further be reduced to three square miles if we except *Woodsia glabella*. In the United States a friendly rivalry exists as to which State holds the record for the best fern localities. At present the State of Vermont which adjoins our County of Stanstead claims premier honors (the same as it does for the orchids,) having three localities, Willoughby Lake, Dorset and Manchester where thirty-five, and Pittsford, where thirty-four true species of ferns have been collected. In view of this it has recently been said that apparently only Vermont can compete effectively with Vermont, a statement which I hope ere long to refute, seeing that my list of true ferns for Hatley now stands at twenty-eight species, and this for only two years work, whereas most, if not all, of the above lists have been in the making for over twenty years. It seems strange in view of Gosse's diversified love of natural history subjects, he should have entirely ignored the ferns, for we find no mention whatever of them in his "The Canadian Naturalist," 1840, written whilst residing in these parts from 1835-38.

In conclusion, my best thanks are due to Mr. William R. Maxon, who after the death of Mr. James M. Macoun, kindly undertook to verify my determinations, and who in many other ways has given me much valuable help and assistance which has greatly facilitated the writing of this paper. To Dr. Harvie I am indebted for the information regarding the geological formation of this district, and for naming samples of rock submitted.

LIST OF THE FERNS OF HATLEY, 1920.

POLYPODIACEÆ.

- Polypodium vulgare* L. Common Polypody.
Adiantum pedatum L. Maidenhair.
Pteridium latiusculum (Desv.) Maxon. Common Brake, Bracken.
Athyrium angustifolium (Michx.) Milde. Narrow-leaved Spleenwort.
Athyrium acrostichoides (Sw.) Diels. Silvery Spleenwort.
Athyrium angustum (Willd.) Presl. Lady Fern.
Polystichum acrostichoides (Michx.) Schott. Christmas Fern.
Polystichum acrostichoides var. *Scheinitzii* (Beck) Small (var. *incisum* Gray).
Polystichum Braunii (Spenner) Fee. Braun's Holly Fern.
Thelypteris palustris Schott. Marsh Fern.
Thelypteris noveboracensis (L.) Nieuwl. l.c. New York Fern.
Thelypteris Phegopteris (L.) Slosson. Long Beech Fern.

- Thelypteris hexagonoptera* (Michx.), n. comb. Broad Beech Fern.
Thelypteris Dryopteris (L.) Slosson. Oak Fern.
Thelypteris marginalis (L.) Nieuwl. l.c. Marginal Shield Fern.
Thelypteris marginalis var. *elegans* J. Robinson.
Thelypteris Goldiana (Hook.) Nieuwl. l.c. Goldie's Fern.
Thelypteris Bootlii (Tuckerm.) Nieuwl. Boot's Shield Fern.
Thelypteris cristata (L.) Nieuwl. l.c. Crested Shield Fern.
Thelypteris cristata, var. *Clintoniana* (D. C. Eaton), n. comb. Clinton's Wood Fern.
Thelypteris spinulosa, var. *intermedia* (Muhl.), n. comb. Spinulose Wood Fern.
Thelypteris spinulosa, var. *americana* (Fisch.), n. comb. Spreading Wood Fern.
Cystopteris bulbifera (L.) Bernh. Bulblet Bladder Fern.
Cystopteris fragilis (L.) Bernh. Fragile Bladder Fern.
Woodsia glabella R. Br. Smooth Woodsia.
Dennstaedtia punctilobula (Michx.) Moore. Hay-scented Fern.
Onoclea sensibilis L. Sensitive Fern.
Onoclea sensibilis var. *obtusilobata* (Schkuhr.) Torr.
Pteretis nodulosa (Michx.) Nieuwl. Ostrich Fern.

OSMUNDACEÆ.

- Osmunda regalis* L., var. *spectabilis* (Willd.) Gray. Royal Fern.
Osmunda Claytoniana L. Interrupted Fern.
Osmunda cinnamomea L. Cinnamon Fern.

OPHIOGLOSSACEÆ.

- Ophioglossum vulgatum* L. Adder's tongue.
Botrychium Lunaria (L.) Sw. Moonwort.
Botrychium ramosum (Roth.) Aschers. Matricary Grape Fern.
Botrychium obliquum Muhl. Common Grape Fern.
Botrychium obliquum var. *elongatum* Gilbert & Haberer.
Botrychium obliquum var. *dissectum* (Spreng) Clute. Feathery Grape Fern.
Botrychium obliquum var. *oneidense* (Gilbert) Waters.
Botrychium ternatum (Thunb.) Sw., var. *intermedium* D. C. Eaton. Ternate Grape Fern.
Botrychium virginianum (L.) Sw. Rattlesnake Fern.