

# Checklist of Oregon Ophioglossaceae

Thea Jaster, Stephen C. Meyers and Scott Sundberg, eds.

Version 2.1 © 2023 Oregon Flora Project



## Botrychium

Checklist contributor: Peter Zika, 11/5/1996

Flora contributor: Ben Legler

---

### ***Botrychium ascendens*** W.H. Wagner

Common names: upswept moonwort

Origin: native

Voucher: OSU, most recently collected in 2016.

FN - 2:095, accepted, in Oregon; FOO - 1:89, accepted, in Oregon (explicit); FPN2 - 49, accepted, in Oregon (implied), ; JPM - 99, accepted, in Oregon (implied); JPM2 - 122, accepted, in Oregon (implied).

---

### ***Botrychium crenulatum*** W.H. Wagner

Common names: crenulate moonwort, dainty moonwort

Origin: native

Voucher: OSU, most recently collected in 2016.

FN - 2:095, accepted, in Oregon; FOO - 1:89, accepted, in Oregon (explicit); FPN2 - 48, accepted, in Oregon (implied), ; JPM - 99, accepted, in Oregon (implied); JPM2 - 122, accepted, in Oregon (implied).

---

### ***Botrychium hesperium*** W.H. Wagner & Lellinger

Common names: western moonwort

Origin: native

Voucher: OSU, most recently collected in 2002.

FN - 2:096, accepted, not in Oregon; FOO - 1:90, accepted, in Oregon (explicit); FPN2 - 47, accepted, in Oregon (explicit), .

---

### ***Botrychium lanceolatum*** (S.G. Gmel.) Ångstr.

FPN - 45, accepted, not in Oregon; FPN2 - 47, accepted, not in Oregon, ; GWM - 19, accepted, in Oregon (explicit); IL - 1:4, accepted, not in Oregon; IN - 1:191, accepted, in Oregon (implied); PEK - 46, accepted, in Oregon (explicit); VP - 1:50, accepted, not in Oregon.

Synonyms:

***Botrychium viride*** ined.

FPN2 - 47, accepted, in Oregon (explicit).

---

### ***Botrychium lanceolatum*** (S.G. Gmel.) Ångstr. ssp. *lanceolatum*

Common names: triangle moonwort

Origin: native

Voucher: OSU, most recently collected in 2007.

FN - 2:097, accepted, in Oregon; FOO - 1:90, accepted, in Oregon (explicit).

---

### ***Botrychium lineare*** W.H. Wagner

Common names: slender moonwort

Origin: native

Voucher: OSU, most recently collected in 1998.

FOO - 1:90, accepted, in Oregon (explicit); JPM2 - 122, accepted, in Oregon (implied); Wagner & Wagner, 1994 - accepted, protologue.

---

### ***Botrychium minganense*** Vict.

Common names: mingan moonwort

Origin: native

Voucher: OSU, most recently collected in 2016.

FN - 2:098, accepted, in Oregon; FOO - 1:91, accepted, in Oregon (explicit); FPN2 - 49, accepted, in Oregon (implied), ; JPM - 99, accepted, not in Oregon; JPM2 - 122, accepted, in Oregon (implied); PEK - 46, accepted, in Oregon (explicit).

Synonyms:

***Botrychium lunaria*** (L.) Sw. var. *minganense* (Vict.) Dole

FN - 2:098, synonym for *Botrychium minganense*, in Oregon; GWM - 19, accepted, in Oregon (explicit); IN - 1:191, synonym for *Botrychium lunaria*, in Oregon (implied); VP - 1:51, synonym for *Botrychium lunaria*, in Oregon (implied).

Misapplied names:

***Botrychium lunaria*** (L.) Sw. var. *onondagense* (Underw.) House

FPN - 45, accepted, in Oregon (implied).

***Botrychium montanum* W.H. Wagner**

Common names: western goblin, mountain moonwort

Origin: native

Voucher: OSU, most recently collected in 2002.

FN - 2:098, accepted, in Oregon; FOO - 1:91, accepted, in Oregon (explicit); FPN2 - 49, accepted, in Oregon (implied); ; JPM - 99, accepted, in Oregon (implied); JPM2 - 122, accepted, in Oregon (implied).

---

***Botrychium neolunaria* Stensvold & Farrar**

Common names: common moonwort

Origin: native

Voucher: OSU, most recently collected in 2007.

FPN2 - 48, accepted, in Oregon (implied).

Synonyms:

***Botrychium lunaria* (L.) Sw. var. *onondagense* (Underw.) House**

***Botrychium yaaxudakeit* Stensvold & Farrar**

ploidal variant

FPN2 - 48, accepted, in Oregon (explicit); ; JPM2 - 123, accepted, in Oregon (explicit).

Misapplied names:

***Botrychium lunaria* (L.) Sw.**

FN - 2:097, accepted, in Oregon; FOO - 1:90, accepted, in Oregon (explicit); FPN - 45, accepted, in Oregon (implied); IL - 1:3, accepted, in Oregon (implied); JPM - 99, accepted, in Oregon (implied); JPM2 - 122, accepted, in Oregon (implied); PEK - 46, accepted, in Oregon (explicit).

***Botrychium lunaria* (L.) Sw. var. *lunaria***

FPN - 45, accepted, in Oregon (implied); IN - 1:191, accepted, in Oregon (implied); VP - 1:51, accepted, in Oregon (explicit).

---

***Botrychium paradoxum* W.H. Wagner**

Common names: paradox moonwort

Origin: native

Voucher: OSU, most recently collected in 1996.

FN - 2:099, accepted, not in Oregon, Oregon not included in range; FOO - 1:91, accepted, in Oregon (explicit); FPN2 - 46, accepted, in Oregon (explicit); ; JPM2 - 122, accepted, in Oregon (implied).

---

***Botrychium pedunculosum* W.H. Wagner**

Common names: stalked moonwort

Origin: native

Voucher: OSU, most recently collected in 2002.

FN - 2:099, accepted, in Oregon; FOO - 1:91, accepted, in Oregon (explicit); FPN2 - 47, accepted, in Oregon (explicit); .

---

***Botrychium pinnatum* H. St. John**

Common names: northwestern moonwort

Origin: native

Voucher: OSU, most recently collected in 2019.

FN - 2:100, accepted, in Oregon; FOO - 1:92, accepted, in Oregon (explicit); FPN - 45, synonym for *Botrychium boreale*, in Oregon (explicit); FPN2 - 47, accepted, in Oregon (explicit); ; JPM - 99, accepted, in Oregon (implied); JPM2 - 122, accepted, in Oregon (implied); PEK - 46, accepted, in Oregon (explicit).

Synonyms:

***Botrychium boreale* Milde var. *obtusilobum* (Rupr.) M. Broun**

FN - 2:100, matched with *Botrychium boreale* ssp. *obtusilobum* (subtaxon form), synonym for *Botrychium pinnatum*, in Oregon; FPN - 45, synonym for *Botrychium boreale*, in Oregon (explicit); IN - 1:191, accepted.

Misapplied names:

***Botrychium boreale* Milde**

FN - 2:100, accepted, not in Oregon, in Greenland; FPN - 45, accepted, in Oregon (explicit); GWM - 19, accepted, in Oregon (explicit); IN - 1:191, accepted, in Oregon (explicit); VP - 1:50, accepted, in Oregon (explicit).

---

### ***Botrychium pumicola* Coville ex Underw.**

Common names: pumice moonwort

Origin: native

Voucher: OSU, most recently collected in 2017.

FN - 2:100, accepted, in Oregon; FOO - 1:92, accepted, in Oregon (explicit); FPN2 - 47, accepted, in Oregon (explicit); IL - 1:3, accepted, in Oregon (explicit); JPM2 - 122, accepted, in Oregon (explicit); PEK - 46, accepted, in Oregon (explicit).

---

### ***Botrychium simplex* E. Hitchc.**

FN - 2:101, accepted, in Oregon; FOO - 1:93, accepted, in Oregon (explicit); FPN - 44, accepted, in Oregon; GWM - 19, accepted, in Oregon (explicit); IL - 1:3, accepted, in Oregon (implied); IN - 1:189, accepted, in Oregon (implied); JPM - 99, accepted, given distribution: NCoRH, CaR, SN, SnBr, Wrn, W&I; to e N.Am, Eur, Japan; PEK - 46, accepted, in Oregon (explicit); VP - 1:55, accepted, in Oregon (implied).

---

### ***Botrychium simplex* E. Hitchc. var. *compositum* (Lasch) Milde**

Common names: Yosemite moonwort

Origin: native

Voucher: OSU, most recently collected in 2018.

FOO - 1:93, accepted, in Oregon (explicit); FPN2 - 47, accepted, in Oregon (implied); IN - 1:190, accepted; JPM2 - 122, accepted, in Oregon (implied).

---

### ***Botrychium simplex* E. Hitchc. var. *simplex***

Common names: least moonwort

Origin: native

Voucher: OSU, most recently collected in 2011.

FOO - 1:93, accepted, in Oregon (explicit); FPN2 - 48, accepted, in Oregon (explicit); JPM2 - 122, accepted, in Oregon (explicit).

---

## **Literature cited for Botrychium**

(Excluding the standard references unless specifically cited in the flora manuscript.)

Wagner, W.H., Jr. and F.S. Wagner. 1981. New species of moonworts, *Botrychium* subg. *Botrychium* (Ophioglossaceae), from North America. *American Fern Journal* 71(1):20-30.

Wagner, W.H., Jr. and F.S. Wagner. 1986. Three new species of moonworts (*Botrychium* subg. *Botrychium*) endemic in western North America. *American Fern Journal* 76(2):33-47.

Wagner, W.H., Jr. and F.S. Wagner. 1994. Another widely disjunct, rare and local North American moonwort (Ophioglossaceae: *Botrychium* subg. *Botrychium*). *American Fern Journal* 84(1):5-10.

Zika, P.F. and D.R. Farrar. 2010. *Botrychium ascendens* W.H. Wagner (Ophioglossaceae) in Newfoundland and notes on its origin. *American Fern Journal* 99:249-259.

Zika, P.F. and E.R. Alverson. 1996. Ferns new to the Willowa Mountains, Oregon. *American Fern Journal* 86:61-64.

---

## **Botrypus**

Checklist contributor:

Flora contributor: Ben Legler

---

### ***Botrypus virginianus* (L.) Michx.**

Common names: rattlesnake-fern

Origin: native

Voucher: OSU, most recently collected in 2002.

FOO - 1:93, accepted, in Oregon (explicit); FPN2 - 50, accepted, in Oregon (explicit); JPM2 - 123, accepted, in Oregon (implied).

Synonyms:

***Botrychium virginianum* (L.) Sw.**

FN - 2:091, accepted, in Oregon; FPN - 45, accepted, not in Oregon; GWM - 20, accepted, in Oregon (explicit); IL - 1:4, accepted, in Oregon (explicit); PEK - 46, accepted, in Oregon (explicit); VP - 1:55, accepted, not in Oregon.

---

## **Ophioglossum**

Checklist contributor: Peter Zika, 11/5/1996

Flora contributor: Ben Legler

---

## ***Ophioglossum pusillum* Raf.**

Common names: northern adder's tongue

Origin: native

Voucher: OSU, most recently collected in 2005.

FN - 2:105, accepted, in Oregon; FOO - 1:94, accepted, in Oregon (explicit); FPN2 - 50, accepted, in Oregon (implied), ; JPM - 99, accepted, in Oregon (implied); JPM2 - 123, accepted, in Oregon (implied).

Misapplied names:

### ***Ophioglossum vulgatum* L.**

FN - 2:105, accepted, not in Oregon; FPN - 45, accepted, not in Oregon; IL - 1:2, accepted, not in Oregon; PEK - 45, accepted, in Oregon (explicit); VP - 1:56, accepted, in Oregon (implied).

---

## **Literature cited for *Ophioglossum***

(Excluding the standard references unless specifically cited in the flora manuscript.)

Alverson, E.R. and P.F. Zika. 2008. Ferns and friends in the Willa Watta Mountains, Oregon. *Kalmiopsis* 15:21-31.

Wagner, W.H., Jr. and F.S. Wagner. 1981. New species of moonworts, *Botrychium* subg. *Botrychium* (Ophioglossaceae), from North America. *American Fern Journal* 71(1):20-30.

Wagner, W.H., Jr. and F.S. Wagner. 1986. Three new species of moonworts (*Botrychium* subg. *Botrychium*) endemic in western North America. *American Fern Journal* 76(2):33-47.

---

## **Sceptridium**

Checklist contributor:

Flora contributor: Ben Legler

---

### ***Sceptridium multifidum* Nishida ex Tagawa**

Common names: leather grape-fern

Origin: native

Voucher: OSU, most recently collected in 2018.

FOO - 1:94, accepted, in Oregon (explicit); FPN2 - 50, accepted, in Oregon (implied), ; JPM2 - 123, accepted, in Oregon (implied).

Synonyms:

#### ***Botrychium multifidum* (S.G. Gmel.) Trevis.**

FN - 2:093, accepted, in Oregon; FPN - 45, accepted, in Oregon (implied); GWM - 19, accepted, in Oregon (explicit); JPM - 99, accepted, given distribution: NCo, CaR, SNH, CCo, MP; to e N.Am., Eur; VP - 1:53, accepted, in Oregon (implied).

#### ***Botrychium multifidum* (S.G. Gmel.) Trevis. ssp. *silaifolium* (C. Presl) R.T. Clausen**

VP - 1:53, accepted.

#### ***Botrychium silaifolium* C. Presl**

FN - 2:093, synonym for *Botrychium multifidum*, in Oregon; FPN - 45, synonym for *Botrychium multifidum*, in Oregon (implied); IL - 1:4, accepted, in Oregon (implied); PEK - 46, accepted, in Oregon (explicit).

---

---

# Literature cited for Ophioglossaceae

(Excluding the standard references unless specifically cited in the flora manuscript.)

---

Alverson, E.R. and P.F. Zika. 2008. Ferns and friends in the Wallowa Mountains, Oregon. *Kalmiopsis* 15:21-31.

Wagner, W.H., Jr. and F.S. Wagner. 1981. New species of moonworts, *Botrychium* subg. *Botrychium* (Ophioglossaceae), from North America. *American Fern Journal* 71(1):20-30.

Wagner, W.H., Jr. and F.S. Wagner. 1986. Three new species of moonworts (*Botrychium* subg. *Botrychium*) endemic in western North America. *American Fern Journal* 76(2):33-47.

Wagner, W.H., Jr. and F.S. Wagner. 1994. Another widely disjunct, rare and local North American moonwort (Ophioglossaceae: *Botrychium* subg. *Botrychium*). *American Fern Journal* 84(1):5-10.

Zika, P.F. and D.R. Farrar. 2010. *Botrychium ascendens* W.H. Wagner (Ophioglossaceae) in Newfoundland and notes on its origin. *American Fern Journal* 99:249-259.

Zika, P.F. and E.R. Alverson. 1996. Ferns new to the Wallowa Mountains, Oregon. *American Fern Journal* 86:61-64.

---

Abbreviations Used			
FN = Flora of North America	GWM = Guide to the plants of the Wallowa Mountains of northeastern	JPM = The Jepson manual	a- = no authority given in the reference
FPN = Flora of the Pacific Northwest	IL = An Illustrated Flora of the Pacific States	KZ = A synonymized checklist...(Kartesz)	a+ = authority in the reference matches checklist
FOO = Flora of Oregon	IN = Intermountain Flora	PEK = A manual of the higher plants of Oregon	a± = authority abbreviation in the reference differs
	IPNI = The International Plant Names Index	PLANTS = <a href="http://plants.usda.gov">http://plants.usda.gov</a>	sa = authority at the specific level in the reference
		VP = Vascular Plants of the Pacific Northwest	ssa = authority at the subspecific level in the reference