



## Full Species List of Ferns & Lycophytes

Ferns can be found in almost any habitat within Shenandoah National Park. The park supports 44 species of fern and an additional 11 species of related spore-producing plants (fern allies) such as club mosses and horsetails. Shenandoah's mid-Atlantic location straddles the ranges of both northern and southern adapted species, resulting in relatively high fern diversity. Threats to the park's ferns include competition from invasive exotic plants and habitat changes brought about by climate change.

Some of the largest displays of ferns in the park can be seen along the northern section of Skyline Drive near Elkwallow Wayside. Here, you can see hay-scented fern (*Dennstaedtia punctilobula*) growing throughout the understory for many miles. Wetland fern species such as interrupted fern (*Osmunda claytoniana*) can be viewed along the Limberlost Trail and at the base of the Stony Man Trail.

This checklist was compiled on March 10, 2015 using data exported from the National Park Service NPSpecies database. The database can be accessed at <https://irma.nps.gov/NPSpecies/>. Here you will find search tools that make it possible to create updated or customized lists. This checklist and others are found at <https://irma.nps.gov/NPSpecies/Search/SpeciesList/SHEN>. Lists are currently available for the following: mammals, birds, fish, reptiles, amphibians, butterflies, plants (complete list), trees and shrubs, wildflowers, ferns, and grasses. Please be advised that Latin scientific names often change as a result of new research; therefore, scientific names used here may not reflect the most current accepted nomenclature.



*Huperzia lucidula*



*Gymnocarpium appalachianum*



*Asplenium rhizophyllum*



*Osmunda claytoniana*



## Species List by Park Tag for Shenandoah National Park (SHEN)

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Bookmark this report: [https://irma.nps.gov/NPSpecies/Reports/Park/Species List with Park Tag Filter/SHEN?UnitCode=SHEN&CategoryCode=11&SortOrder=Sci&ShowSynonyms=False&ShowInReview=False&ParkTags=49,53](https://irma.nps.gov/NPSpecies/Reports/Park/Species%20List%20with%20Park%20Tag%20Filter/SHEN?UnitCode=SHEN&CategoryCode=11&SortOrder=Sci&ShowSynonyms=False&ShowInReview=False&ParkTags=49,53)

This report is filtered by the following Habitat Type(s), Life Form(s) or Season(s): Life Form: Fern, or Life Form: Lycopod and is filtered by the following Taxonomic Categories: Vascular Plants

Scientific Name	Common Names	Occ	Abd	Nat	NPS Tags	Park Tags	GRank	SRank
<b><u>Vascular Plants</u></b>								
<i>Adiantum pedatum</i>	maidenhair fern	P	C	N		Fe; MF, WL	G5	VA: S5
<i>Asplenium bradleyi</i>	Bradley's spleenwort	P	R	N	MP	Fe; RO, XF	G4	VA: S2
<i>Asplenium montanum</i>	mountain spleenwort	P	Uc	N		Fe; MF, RO, XF	G5	VA: S5
<i>Asplenium pinnatifidum</i>	lobed spleenwort	P	R	N		Fe; MF, RO, XF	G4	VA: S3
<i>Asplenium platyneuron</i>	ebony spleenwort	P	C	N		Fe; ME, MF, RO, XF	G5	VA: S5
<i>Asplenium resiliens</i>	black-stemmed spleenwort	P	R	N		Fe; MF, RO, XF	G5	VA: S4
<i>Asplenium rhizophyllum</i>	walking fern	P	Uc	N		Fe; MF, RO	G5	VA: S5
<i>Asplenium trichomanes</i>	maidenhair spleenwort	P	Uc	N		Fe; MF, RO	G5	VA: S5
<i>Athyrium filix-femina</i>	lady fern	P	C	N		Fe; MF, WL	G5	VA: S5
<i>Botrychium biternatum</i>	sparse-lobed grape fern	P	Uc	N		Fe; ME, MF, XF	G5	VA: S5
<i>Botrychium dissectum</i>	lace-frond grape fern	P	Uc	N		Fe; ME, MF, XF	G5	VA: S5
<i>Botrychium lanceolatum</i> <i>ssp. angustisegmentum</i>	narrow lance-leaved moonwort	P	R	N	MP	Fe; ME, MF, WL		
<i>Botrychium matricariifolium</i>	daisy-leaved moonwort	P	Uc	N		Fe; ME, MF	G5	VA: S3S4
<i>Botrychium multifidum</i>	leathery grape fern	P	R	N	MP	Fe; ME	G5	VA: S1
<i>Botrychium oneidense</i>	blunt-lobed grape fern	P	R	N	MP	Fe; ME, MF	G4	VA: S2
<i>Botrychium simplex</i>	least moonwort	P	R	N	MP	Fe; MF	G5	VA: S1
<i>Botrychium virginianum</i>	rattlesnake fern	P	C	N		Fe; ME, MF, WL, XF	G5	VA: S5
<i>Cheilanthes lanosa</i>	hairy lip fern	P	R	N		Fe; RO, XF	G5	VA: S5
<i>Cystopteris protrusa</i>	lowland brittle fern	P	Uc	N		Fe; MF	G5	VA: S5
<i>Cystopteris tenuis</i>	Mackay's brittle fern	P	Uc	N		Fe; MF	G5	VA: S4
<i>Dennstaedtia punctilobula</i>	hay-scented fern	P	A	N		Fe; ME, MF, RO, WL, XF	G5	VA: S5
<i>Deparia acrostichoides</i>	silvery spleenwort	P	Uc	N		Fe; MF, RO, WL	G5	VA: S4
<i>Dryopteris carthusiana</i>	toothed wood fern	P	C	N		Fe; MF, RO, WL	G5	VA: S5
<i>Dryopteris cristata</i>	crested wood fern	P	R	N		Fe; WL	G5	VA: S5
<i>Dryopteris goldiana</i>	Goldie's wood fern	P	R	N		Fe; MF, WL	G4G5	VA: S4
<i>Dryopteris intermedia</i>	fancy fern	P	C	N		Fe; MF, WL	G5	VA: S5



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Scientific Name	Common Names	Occ	Abd	Nat	NPS Tags	Park Tags	GRank	SRank
<i>Dryopteris marginalis</i>	marginal wood fern	P	C	N		Fe; MF, RO, WL, XF	G5	VA: S5
<i>Equisetum arvense</i>	field horsetail	P	Uc	N		Fe; ME, MF, WL	G5	VA: S5
<i>Equisetum hyemale</i>	tall scouring rush	P	Uc	N		Fe; MF, WL	G5	VA: S5
<i>Gymnocarpium appalachianum</i>	Appalachian oak fern	P	Uc	N	MP	Fe; MF, RO, XF	G3	VA: S3
<i>Huperzia appalachiana</i>	Appalachian fir clubmoss	P	R	N	EC, MP	Ly; RO	G5	VA: S2
<i>Huperzia lucidula</i>	shining clubmoss	P	Uc	N	EC	Ly; MF, WL	G5	VA: S5
<i>Isoetes engelmannii</i>	strong quillwort	P	R	N		Ly; WL	G4	VA: S4
<i>Lycopodium annotinum</i>	stiff clubmoss	P	R	N	EC	Ly; ME, MF, WL	G5	VA: SNR
<i>Lycopodium clavatum</i>	running clubmoss	P	Uc	N	EC	Ly; ME, MF, WL	G5	VA: S5
<i>Lycopodium digitatum</i>	fan clubmoss	P	C	N	EC	Ly; ME, MF	G5	VA: S5
<i>Lycopodium obscurum</i>	princess pine	P	Uc	N	EC	Ly; MF, WL	G5	VA: S5
<i>Lycopodium tristachyum</i>	ground-cedar	P	Uc	N	EC	Ly; ME, RO, XF	G5	VA: S5
<i>Onoclea sensibilis</i>	sensitive fern	P	C	N		Fe; ME, MF, WL	G5	VA: S5
<i>Ophioglossum engelmannii</i>	limestone adder's-tongue	P	R	N		Fe; RO, XF	G5	VA: S3
<i>Ophioglossum vulgatum</i>	common adder's tongue	P	Uc	N		Fe; ME, MF, WL	G5	VA: S5
<i>Osmunda claytoniana</i>	interrupted fern	P	C	N		Fe; MF, WL	G5	VA: S5
<i>Osmunda regalis</i>	royal fern	P	Uc	N		Fe; ME, WL	G5	VA: S5
<i>Osmundastrum cinnamomea</i>	cinnamon fern	P	Uc	N		Fe; MF, WL		
<i>Phegopteris hexagonoptera</i>	broad beech fern	P	C	N		Fe; MF, WL	G5	VA: S5
<i>Polypodium appalachianum</i>	Appalachian polypody	P	Uc	N		Fe; MF, RO, WL, XF	G4G5	VA: S4?
<i>Polypodium virginianum</i>	rock polypody	P	Uc	N		Fe; MF, RO, XF	G5	VA: S5?
<i>Polystichum acrostichoides</i>	Christmas fern	P	C	N		Fe; MF, WL, XF	G5	VA: S5
<i>Pteridium aquilinum</i>	bracken fern	P	C	N		Fe; ME, MF, RO, WL, XF	G5	VA: S5
<i>Selaginella rupestris</i>	rock spike-moss	P	Uc	N		Ly; RO, XF	G5	VA: S5
<i>Thelypteris noveboracensis</i>	New York fern	P	C	N		Fe; ME, MF, WL	G5	VA: S5
<i>Thelypteris palustris</i>	marsh fern	P	Uc	N		Fe; ME, MF, WL	G5	VA: S5
<i>Woodsia ilvensis</i>	rusty cliff fern	P	Uc	N		Fe; RO	G5	VA: S4
<i>Woodsia obtusa</i>	blunt-lobed cliff fern	P	Uc	N		Fe; MF, RO, XF	G5	VA: SNR
<i>Woodwardia areolata</i>	netted chain fern	P	Uc	N		Fe; MF, WL	G5	VA: S5

Report Species Count: 55

NPSpecies - The National Park Service biodiversity database. IRMA Portal version. <https://irma.nps.gov/npspecies/>. Accessed 6/23/2015 2:47:17 PM

### Key



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	Code	Term	Definition
<b>Occurrence (Occ)</b>	P	Present	Species occurs in park; current, reliable evidence available.
	PP	Probably Present	High confidence species occurs in park but current, verified evidence needed.
	Un	Unconfirmed	Species is attributed to park but evidence is weak or absent.
	NP	Not In Park	Species is not known to occur in park.
<b>Abundance (Abd)</b>	A	Abundant	Animals: May be seen daily, in suitable habitat and season, and counted in relatively large numbers. Plants, Chromista, Protozoa, and Fungi: Large number of individuals; wide ecological amplitude or occurring in habitats covering a large portion of the park
	C	Common	Animals: May be seen daily, in suitable habitat and season, but not in large numbers. Plants, Chromista, Protozoa, and Fungi: Large numbers of individuals predictably occurring in commonly encountered habitats but not those covering a large portion of the park
	Uc	Uncommon	Animals: Likely to be seen monthly in appropriate habitat and season. May be locally common. Plants, Chromista, Protozoa, and Fungi: Few to moderate numbers of individuals; occurring either sporadically in commonly encountered habitats or in uncommon habitats
	R	Rare	Animals: Present, but usually seen only a few times each year. Plants, Chromista, Protozoa, and Fungi: Few individuals, usually restricted to small areas of rare habitat
	O	Occasional	Animals: Occurs in the park at least once every few years, varying in numbers, but not necessarily every year. Plants, Chromista, Protozoa, and Fungi: Abundance variable from year to year (e.g., desert plants)
	U	Unknown	Abundance unknown
<b>Nativeness (Nat)</b>	N	Native	Species naturally occurring in park or region.
	Nn	Non-native	Species occurring on park lands as a result of deliberate or accidental human activities.
	U	Unknown	Nativeness status is unknown or ambiguous.
<b>Nativeness Tags</b>	R	Restoration	Also refers to reintroductions. Native species that has been extirpated or substantially diminished from the park as a result of human-induced change, and that has been or is in the process of being restored.
	C	Cultivated	Species has been introduced or is maintained as part of the park's mission, significance, or cultural landscape (e.g., orchards, crops, fields)
	I	Invasive	Non-native species whose introduction is likely to cause economic or environmental harm.
	N	Noxious	Designation by a governmental authority. Species grows aggressively and has broad environmental tolerance that allows it to establish in many locations.
<b>NPS Tag (Management)</b>	EC	Exploitation Concern	Species is considered a target for collection, poaching, commercial harvesting, or other non-permitted or exploitative activities.
	MP	Management Priority	Species warrants particular management attention as determined by park management staff.
<b>NPS Tag (Seasonality)</b>	B	Breeder	Population reproduces in the park.



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<b>NPS Tag (Seasonality)</b>	R	Resident	A significant population is maintained in the park but does not breed within park boundaries.
	M	Migratory	Species occurs in the park only while in transition between breeding and wintering grounds.
	S	Summer	Typically spending only summer months in the park.
	W	Winter	Typically spending only winter months in the park.
	V	Vagrant	Park is outside of species' usual range.

<b>ParkTags</b>	<b>Code</b>	<b>Term</b>	<b>Definition</b>
<b>Vegetation Life Form</b>	<b>Form</b>		
	Tr	Tree	Tree
	Sh	Shrub	Shrub
	Vi	Vine	Vine
	He	Herb	Herb
	Gr	Graminoid	Graminoid (grass)
	Fe	Fern	Fern
	Ly	Lycopod	Lycopod
<b>Habitat</b>	<b>Hab</b>		
	AQ	Aquatic	Within rivers, streams and ponds
	CU	Cultural	Planted by humans, either by pre-park residents or park employees/contractors
	FE	Forest Edge	Forest borders and field margins
	ME	Meadow	Meadows, fields, lawns, forest clearings, and ruderal habitats
	MF	Mesic forest	Mesic and dry-mesic forests; represents a majority of park's forested area
	RO	Rock outcrop	Exposed and shaded outcrops, boulder fields, talus slopes, and rocky barrens
	SS	Shrub/Scrub	Second growth forest and habitats dominated by shrubs
	WL	Wetland	Riparian areas, seeps, springs, fens, swamps, and wetland hummocks
	XF	Xeric forest	Dry forests, including heath woodlands and shrublands
<b>Seasons when the species is most easily encountered.</b>	<b>Seas</b>		
	Sp	Spring	Spring (Mar, Apr, May)
	Su	Summer	Summer (Jun, Jul, Aug)
	Fa	Fall	Fall (Sept, Oct)
	Wi	Winter	Winter (Nov, Dec, Jan, Feb)
	All	All Year	All Year Round

GRank and SRank information is provided by NatureServe ([www.natureserve.org](http://www.natureserve.org)) and its network of natural heritage member programs, a leading source of information about rare and endangered species, and threatened ecosystems.