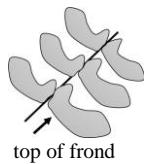


## **Common Ferns of the Atlantic and Gulf Coastal Plain**



\*Caution-This is a limited species key  
NWPL

1. Ferns with dimorphic fronds with distinct sterile and fertile leaflets separate on one frond or as two separate and distinct fronds\*.
2. Ferns with two separate types of fronds (dimorphic), sterile and fertile.
  3. Fronds once cut.\*
  4. Leaflets opposite ..... *Onoclea*
  4. Leaflets alternate..... *Woodwardia* (in part)
  3. Fronds twice cut\*
    5. Fronds grow from a blackish knobbed base, stems and leaflets mostly lacking hairs..... *Matteuccia*
    5. Fronds lacking blackish knobbed base, stems and underside of leaflets very hairy..... *Osmundastrum*
2. Ferns with fronds that have separate sterile and fertile leaflets on the same frond.
  6. Fronds once cut.
    7. Stalk green; all pinnae with a thumb-shaped base ..... *Polystichum*
    7. Stalk dark brown; basal pinnae with a thumb-shaped base..... *Asplenium*
  6. Fronds twice cut ..... *Osmunda*
1. Ferns with only one type of frond, fertile and sterile fronds, and leaflets similar, sometimes the fronds of an individual fern may lack any fertile sori.
  8. Fronds twice cut.
    9. Stalked, fan-shaped pinnules..... *Adiantum* (in part)
    9. Pinnules not on stalks, various shapes.
      10. Sori elongated in chain like structures\*\*
  10. Sori circular or crescent shaped but not in elongated chain like arrangements.
    11. Lower two pinnae (leaflets) pointing downward..... *Phegopteris*
    11. Lower two pinnae more or less at right angle to stem.





12. Fronds broadest at base, stem wire-like  
and black, leaf edges rolled....*Thelypteris*  
12. Fronds tapered at both ends, stems thin,  
brown to green.....*Parathelypteris*



8. Fronds thrice cut.

13. Fronds with very scaly bases.....*Dryopteris*



13. Fronds with very few scales or scales lacking.



14. Fronds divided from the base, forming a cluster  
of fronds.

15. Fronds wider than 6 inches and taller than 1 foot  
.....*Athyrium*

15. Fronds smaller than 6 inches wide and 1 foot tall  
.....*Cystopteris*

14. Fronds divided from a central stalk and/or from near base but  
not forming clusters of fronds.

16. Fronds divided into a circular or semi-circular shape  
with black forked stalks, 1 – 1.5 feet tall

.....*Adiantum* (in part)

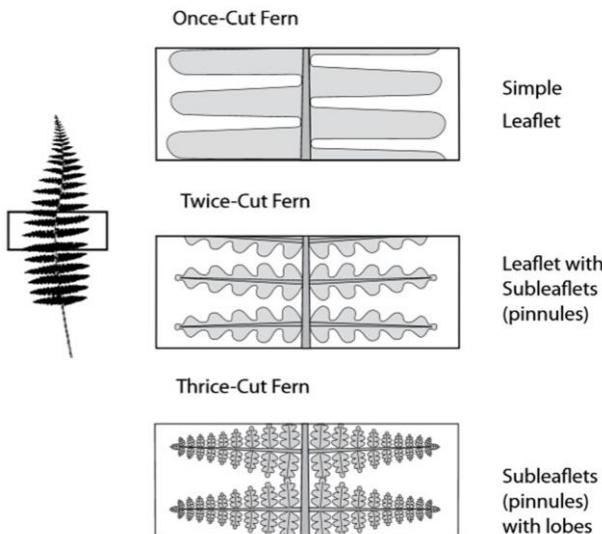


16. Fronds divided into a three parted triangle  
stalks green to pale brown; 1.5 – 5 feet tall

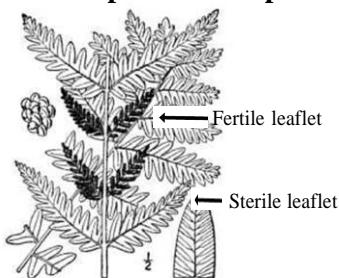
.....*Pteridium*

- \* Frond(s) is equal to saying leaf or leaves. The smaller leaf units on a frond are referred to as pinnae or leaflets. See below for types of dimorphic fronds.

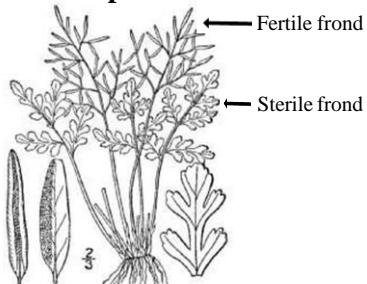
## Leaflet Shapes



### Dimorphic leaflets/pinnae



### Dimorphic fronds



USDA-NRCS PLANTS Database / Britton, N.L., and A. Brown. 1913. An illustrated flora of the northern United States, Canada and the British Possessions. 3 vols. Charles Scribner's Sons, New York. Vol. 1: 32.

- \*\* Sori are clusters of sac like structures known as sporangia that contain spores, a reproductive unit of ferns.



Sori on margins of pinnae



Elongated sori arranged in chains

*Adiantum capillus-veneris*  
Southern Maidenhair (FACU)



Species Key:

Leaflets about as long as wide.....  
*A. capillus-veneris*

-OR-

Leaflets about 3 times as long as wide.....*A. pedatum*

*Adiantum pedatum*  
Northern Maidenhair (FACU)



*Asplenium platyneuron*  
Ebony Spleenwort (FACU)



*Athyrium angustum*  
Northern Lady Fern (FAC)



*Cystopteris protrusa*  
Lowland Bladder Fern (FAC)



NWPL

Species Key:

1. Scales at base scattered; sori in between leaflet margin and midvein (Fig A.);
  2. Fronds twice to thrice cut and dying in winter.....*D. carthusiana*
  2. Fronds once to twice cut and green through winter.....*D. ludoviciana*
1. Scales at base in dense tufts; sori near leaflet margin (Fig B); fronds twice to thrice cut and green through winter.....*D. marginalis*  
(next page)

*Dryopteris carthusiana*

Spinulose Wood Fern (FACW)



Fig. A

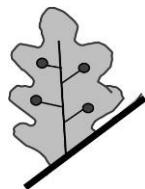
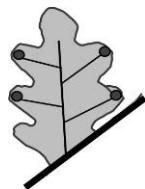


Fig. B



*Dryopteris ludoviciana*  
Southern Wood Fern (FACW)



*Dryopteris marginalis*  
Marginal Wood Fern (FACU)



4. © 2016 Arthur Haines

*Matteuccia struthiopteris*  
Ostrich Fern (FACW)



5. ©2016 Bruce Patterson

*Onoclea sensibilis*  
Sensitive Fern (FACW)



*Osmunda spectabilis*  
Royal Fern (OBL)



**Species Key:**

Fertile (spore bearing) leaflets at the top of frond; infertile leaflets below fertile leaflets ..... *O. spectabilis*

-OR-

Infertile leaflets above and below fertile leaflets..... *O. claytoniana*

*Osmunda claytoniana*  
Interrupted Fern (FAC)



*Osmundastrum cinnamomeum*

Cinnamon Fern (FACW)



6. © 2016 Glen Mittelhauser



6. © 2016 Glen Mittelhauser

*Parathelypteris noveboracensis*

New York Fern (FAC)



NWPL

*Phegopteris hexagonoptera*  
Broad Beech Fern (FACU)



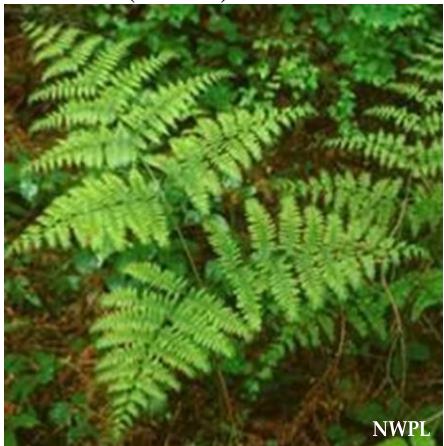
NWPL

*Polystichum acrostichoides*  
Christmas Fern (FACU)



NWPL

*Pteridium aquilinum*  
Northern Bracken Fern (FACU)



NWPL

NWPL

*Thelypteris palustris*  
Eastern Marsh Fern (OBL)



*Thelypteris knuthii*  
Knuth's Maiden Fern (FACW)



**Species Key:**

Scales at base of frond ovate and not hairy.....*T. palustris*

-OR-

Scales at base of frond hairy and linear-lanceolate (similar width throughout).....*T. knuthii*

*Woodwardia areolata*  
Netted Chain Fern (OBL)



9. © JK Marlow

Species Key:

Alternate, once cut leaflets.

.....*W. areolata*

-OR-

Alternate, twice cut leaflets.

.....*W. virginica*



6. © Louis-M. Landry



Photo Credit:

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