

Cogongrass (Imperata cylindrica) is an aggressive invader of natural and disturbed areas throughout the Southeast. It disrupts ecosystem functions, reduces wildlife habitat, decreases tree seedling growth and establishment success, and alters fire regimes and intensity. Recognizing the presence of cogongrass is necessary before beginning any management activities. While other species may look similar, cogongrass has a unique combination of characteristics that make field identification possible. This field guide describes and illustrates these characteristics and compares them to other grass species commonly found in similar habitats. Easyto-understand terminology is used when possible, and definitions for technical terms are provided below. Cogongrass is a Federal Noxious Weed and any infestation must be identified by the appropriate state or federal authority. If you think you have cogongrass on your land, please contact your local Alabama Forestry Commission office. For more information on cogongrass ecology and control, visit www.forestry.alabama.gov or www.cogongrass.org.

Scientific Names of Compared Species:

- Vasey grass (Paspalum urvillei)
- Johnsongrass (Sorghum haplense)
- Silver beardgrass (Bothriochloa laguroides)
- Broomsedge (Andropogon virginicus)

Definitions:

Flower/seed head - entire group of flowers or seeds attached to flower stalk

Leaf sheath - lower portion of the leaf which encloses the stem Ligule - Small projection at the base of a leaf blade Collar region - junction of the leaf blade with the leaf sheath Rhizome - Underground stem which often roots at nodes (often thicker and more fleshy than roots)

Citation

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Key Identification Features of Cogongrass

Flower/seed head

- Cylindrical in shape
- 2-8 inches in length (total flower or seed head)
- Silvery white in color
- Light fluffy dandelion-like seeds
- Blooms from late March to mid June (flower timing depends somewhat on local climate)







Leaves

- Blades up to 6 feet long
- About 1 inch wide
- Whitish, prominent midrib that is often off center
- Margins finely serrate
- Some leaves are very erect, but some may droop or lie flat
- Often light yellowish-green in color
- Could have a reddish cast in fall/winter or brown after frost or freeze





Key Identification Features of Cogongrass

Leaf collar/Ligule

- Ligule is a thin-fringed membrane
- Leaf sheaths overlapping, giving the plant a round appearance
- Hairy (the ligule is the most hairy part of the plant, the plant base may also be somewhat hairy)



Plant Base

- No apparent stem
- Leaves appear to arise directly from or close to the ground
- Overlapping sheaths give a rounded appearance to the plant base
- All vegetation doesn't arise from one dense clump; instead the plants are more spread out
- Light-green to yellowish in color, or could be reddish
- Often a lot of thatch around base







Key Identification Features of Cogongrass

Rhizome/Roots

- Dense mat
- Many sharp points
- Covered in flaky scales
- Bright white under scales
- Strongly segmented





Rhizomes with scales removed (top) and intact (bottom)





Whole Plant

- Densely growing patches
- Tall grass (up to 6 feet, averaging 3-4 feet)
- Circular infestations
- Plants often turn brown in winter (at least partially, but may depend on local climate)





Cogongrass Infestation Identification



Forest - Flowering



Forest - Non-flowering



Forest - Dormant Season



Utility Rights-of-way

Cogongrass Infestation Identification



Circular - Flowering



Circular - Non-flowering



Open Area - Sparse Flowering



Open Area - Dense Flowering



Roadside - Flowering



Roadside - Non-flowering



Aerial View

Cogongrass - Flower and Seed Head Comparison





Flower/seed head

- Cylindrical in shape
- 2-8 inches in length (total flower or seed head)
- Silvery white in color- Light fluffy dandelion-like seeds
- Blooms from late March to mid June (flower timing depends somewhat on local climate)





Vasey Grass

Flower/seed head not fluffy, but loosely branched and spreading.



Broomsedge

Flower/seed head is thin and sparsely flowered, blooms late summer.



Silver Beardgrass

Very similar in looks, but often somewhat branched and blooms later in the year (June-August).



Johnsongrass

Flower/seed head not-fluffy, but loosely branched and spreading.

Cogongrass - Leaf Comparison



Leaves

- Blades up to 6 feet long
- About 1 inch wide
- Whitish, prominent midrib that is often off center
- Margins finely serrate
- Some leaves are very erect, but some may droop or lie flat
- Often light yellowish-green in color
- Could have a reddish cast in fall/winter or brown after frost or freeze

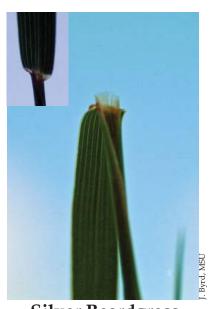




Vasey Grass
Leaves arise from apparent stem, and serrations are not as obvious.



Leaves are thin and often curled, and arise from apparent stem.



Silver BeardgrassLeaves are not serrated and arise from an apparent stem. Midrib not as apparent.



JohnsongrassLeaves wider than cogongrass, edges are not serrate.

Cogongrass - Leaf Collar and Ligule Comparison





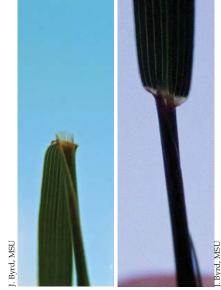
Leaf collar/Ligule

- Ligule is a thin-fringed membrane
- Leaf sheaths overlapping, giving the plant a round appearance
- Hairy (the ligule is the most hairy part of the plant, the plant base may also be somewhat hairy)





Vasey Grass
Only membranous ligule is hairy, leaf collar flared, giving the region a less rounded look.



Silver BeardgrassCollar region hairless except for ligule, which has sparse long hairs.





BroomsedgeSheath is somewhat hairy, ligule is covered in numerous long thin hairs.





JohnsongrassSmooth collar, not hairy except for a small white hair-patch behind ligule.

Cogongrass - Plant Base Comparison







Plant Base

- No apparent stem
- Leaves appear to arise directly from or close to the ground
- Overlapping sheaths give a rounded appearance to the plant base
- All vegetation doesn't arise from one dense clump, instead the plants are more spread out
- Light-green to yellowish in color, or could be reddish
- Often alot of thatch around base





Vasey Grass

Base thick and flattened, often with a reddish-purple color. Plant is very bunched in appearance.



Broomsedge

Plant base has a strongly bunched appearance, with very apparent stems.



Silver Beardgrass

Plant base has a strongly bunched appearance, with apparent stems.



Johnsongrass

Plant base also rounded, but very thick in comparison to cogongrass. Plant does not appear bunched.

Cogongrass - Rhizome and Root Comparison







Rhizome/Roots

- Dense mat

- Many sharp pointsCovered in flaky scalesBright white under scales
- Strongly segmented





Vasey Grass

Thin root system, not extensive and lacking thick, segmented rhizomes.



BroomsedgeRoot system fibrous, lacking

rhizomes.



Silver Beardgrass
Root system fibrous, lacking rhizomes.





Johnsongrass

Rhizome system not as extensive. Rhizomes lacking scaly coverings.

Cogongrass - Whole Plant Comparison



Whole Plant

- Densely growing patches
- Tall grass (up to 6 feet, averaging 3-4 feet)
- Circular infestations
- Plants often turn brown in winter (at least partially, but may depend on local climate)







Vasey Grass



Silver Beardgrass



Broomsedge



Johnson grass

