

Natural Resources Conservation Service

Old World Bluestem (OWB)

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Two Primary OWBs in Kansas

- Caucasion bluestem (Bothriochloa bladhii)
 - Warm season perennial grass native to subtropical Asia and Africa

Yellow Bluestem (Bothriochloa ischaemum)

 Warm season perennial from southern Europe and Asia

(Both introduced into the United States in the early 1900's)

Caucasion Bluestem

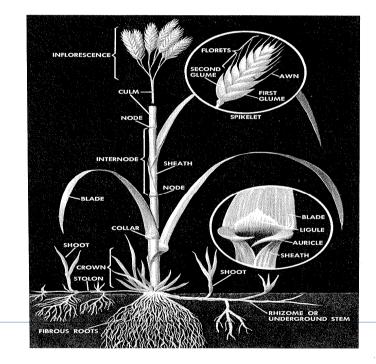
- Small blue-gray graceful grass, with flowering stems that can reach one to three feet high
- Forms dense tufts of blue-green smooth leaf blades up to 12 inches long and less than a ¼ inch wide with a thickened mid-vein
- Nodes are purple-tinged and may be smooth or with short hairs



□ Yellow Bluestem

- Larger than Caucasian bluestem, and has yellow-green leaves that are usually smooth
- Sheaths are rounded and blades are flat or folded
- Nodes may be smooth or with short hairs





OWB Spread

- Both grasses spread by root and by seed
- Length of seed viability in the soil is unknown
- May be spread by machine, animal, or wind
 - Be extremely cautious where machines, vehicles, and livestock have been or where they come from
 - Origination of hay



Problems on the landscape

- Not preferred as much by grazing livestock especially cattle, in comparison to native bluestem species
- Tolerates extreme grazing pressure
- Prolific seed producer



Problems on the landscape

- Very drought tolerant
- Alters soil function (carbon-to-nitrogen ratio that inhibits the growth of native plants)





Photo by Doug Spencer





Photo by Doug Spencer





Photo by Alex Miller



Problems on the landscape

- Seems to accelerate erosion on rangelands
- Often invades or occupies difficult control areas in pastures or rangeland
- Costly? (stay tuned for presentations to follow)

Previous attempts to control

- Spot treatment approach
 - Earth scorch approach
 - Fire and non-selective herbicide
 - Mixed results
- Future
 - Selective herbicide approach



NRCS Position on OWB

- Extreme concern
- Challenging resource concern
- Scout pastures for evidence of OWB presence
- Catch and treat

NRCS Position on OWB

- Evolving approach to treatment/management/control
- Follow Kansas State University recommendations and product label
- Payment Schedule Scenarios
 - EQIP (Grazinglands)

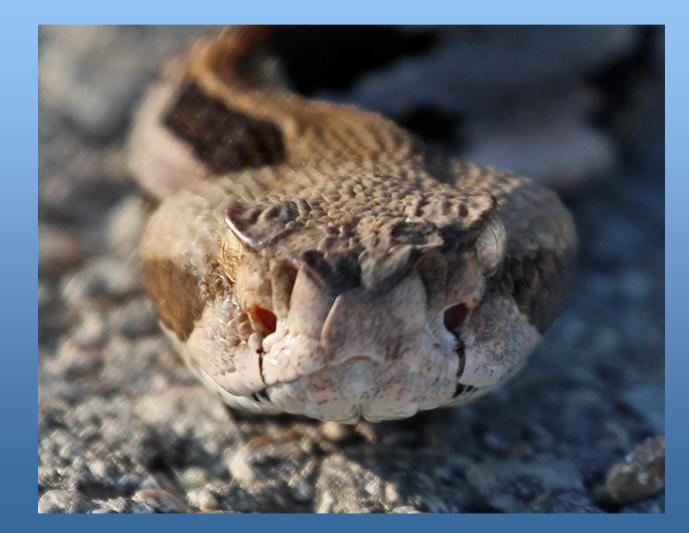


□ Information sources and references:

- USDA Plants Database
- Kansas State University
- Missouri Department of Conservation



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