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**Diseases of Switchgrass**

**Causes**
- A. Viruses
- B. Bacteria
- C. Fungi
- D. Nematodes

**Effects**
- Reduced yield
- Increased production costs

**Diseases associated w/ stand establishment**
- Seed decay, seedling blight, damping off, root rot
- Caused by fungi, bacteria
- Favored by moisture and warm/cool temperatures

**Management**
- Use clean seed
- Seed treatments
- Good soil drainage
- Optimum planting depth

**Virus Diseases of Switchgrass**
- Panicum mosaic
- Switchgrass mosaic
- Barley yellow dwarf
- Sugarcane mosaic

**Foliar Fungal Diseases of Switchgrass**
- Rust
- Anthracnose
- Spot blotch
- Moisture
- Wind
- Warm temps

**Management**
- Resistance
- Fungicide sprays
Smut of Switchgrass

- Seed transmitted
- Causes severe stunting
- Up to 40% yield loss reported

Management
- Resistance
- Clean seed
- Fungicide seed treatments
- Prescribed burning

Summary

Diseases reported on switchgrass in the U.S.:
- Virus diseases
- Fungal leaf spots
- Rust
- Smut

Management
- Scout fields for early disease detection
- Viruses: Resistance, equipment cleaning
- Fungal diseases: Resistance, sanitation, fungicide sprays and seed treatments