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NF562 Wheat Disease Fact Sheet No. 4: Management Program for Soil-Borne Wheat Mosaic and Wheat Yellow Mosaic (Wheat Spindle Streak)

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Wheat Disease Fact Sheet No. 4

Management Program for Soil-Borne Wheat Mosaic and Wheat Yellow Mosaic (Wheat Spindle Streak)

John E. Watkins, Extension Plant Pathologist

Cause and Occurrence

Soil-borne Wheat Mosaic

Cause: Soil-borne Wheat Mosaic Virus

Occurrence: early April to mid-May

Wheat Yellow Mosaic

Cause: Wheat Spindle Streak Mosaic Virus

Occurrence: mid-March to early May

Both viruses are transmitted by the root-infecting fungus, *Polymyxa graminis*.

Key Symptoms

Soil-borne Wheat Mosaic

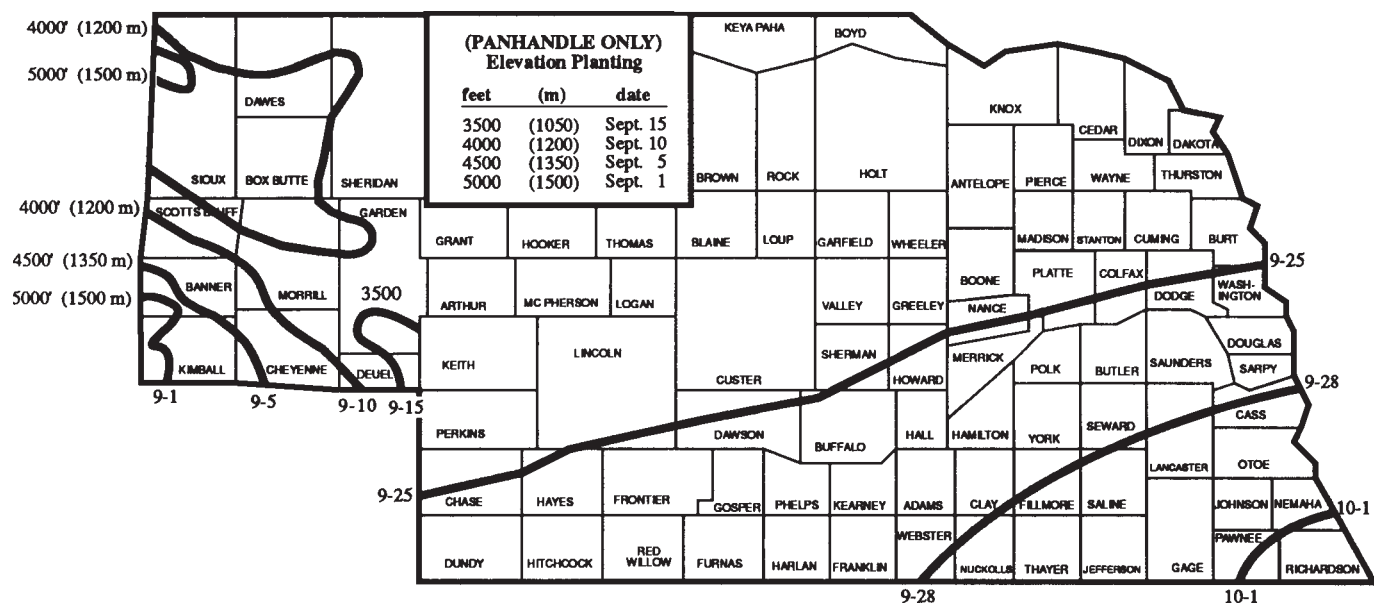
- Yellow to pale green mosaic mottling and streaking of leaves.
- Stunted plants.
- Field symptoms are irregular patches of yellow or pale green wheat often associated with low wet areas.
- Symptom expression is favored by temperatures below 65°F.

Wheat Yellow Mosaic

- In early spring symptoms appear as distinct light green to yellow, spindle-shaped dashes on leaves.
- Infected plants are yellow and stunted.
- Symptoms may appear before those of soil-borne wheat mosaic.

Cultural Management Practices

- Grow resistant or tolerant varieties.
 - Consult the "Nebraska Seed Book, Fall Planted Crops" published by the Nebraska Crop Improvement Association for current information on the disease reaction of wheat varieties recommended for Nebraska.
 - Plant winter wheat at the recommended date for your geographical area (*see map*).
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Suggested Seeding Dates for Winter Wheat in Nebraska

File under: PLANT DISEASES

C-15, Field Crops

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