

Additional Pictures of Interest to
Field Inspectors.

Wheat, Jointgrass, and Cross of the two



See if you can spot the jointgrass,
wheat and the hybrid





Triticale (left) is the result of crossbreeding rye with wheat (right).

Triticale is a
PROHIBITED CROP in a field of certified wheat.



Three heads of triticale. Triticale can be awnless, awnleted or awned (not shown). The awnless one is the left head while the two heads on the right are awnleted.



Rye (two heads on left) and awnleted Triticale (two on right)



Triticale in a
field of wheat.
Triticale is a
prohibited crop
in a certified
field of wheat



Rye (4 heads left) awnleted and awned
triticale heads (right) Both are
PROHIBITED CROPS IN WHEAT



When I asked inspector Betsy Reinert if I could use this photo she said the caption should be "Exhausted field inspector Betsy Reinert makes her way through a jungle of Certified awnleted triticale!"



Six-row Barley.
Barley can be
awnleted or
awned. There are
six rows of seed.

Smut in
an
awned,
six-row
barley
field



A field of oats



A photograph of a field of tall, green grass, likely wheat or barley, with some yellowing at the base. In the lower-left foreground, there is a small, distinct purple flower. The field extends to a flat horizon under a clear blue sky.

Oats in a wheat field

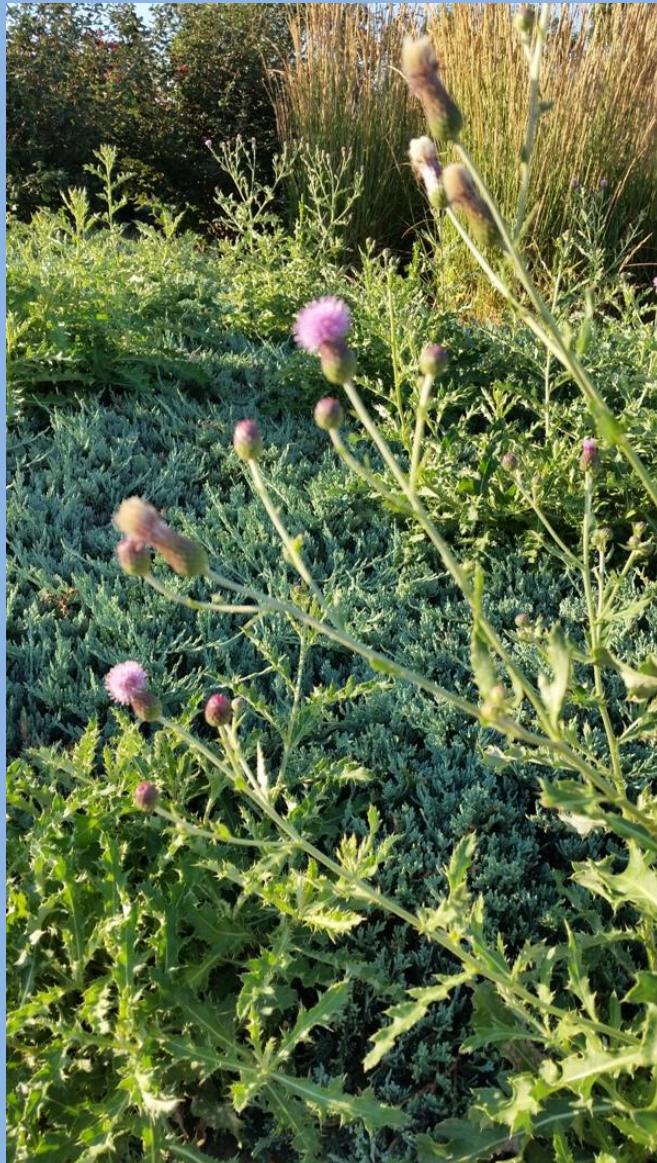


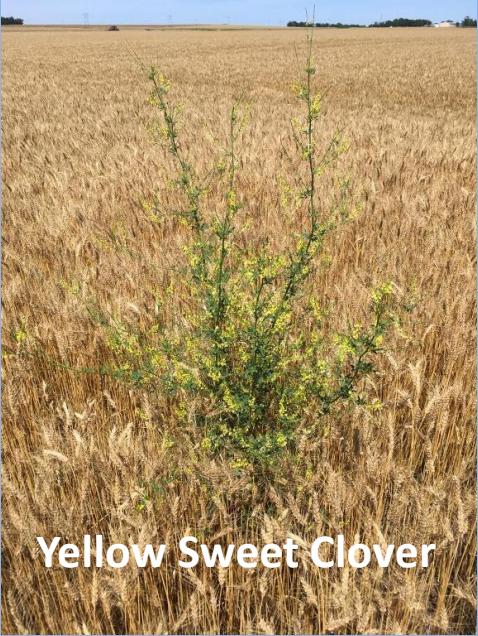
Hail damage in wheat – damaged heads,
broken stems, torn leaves



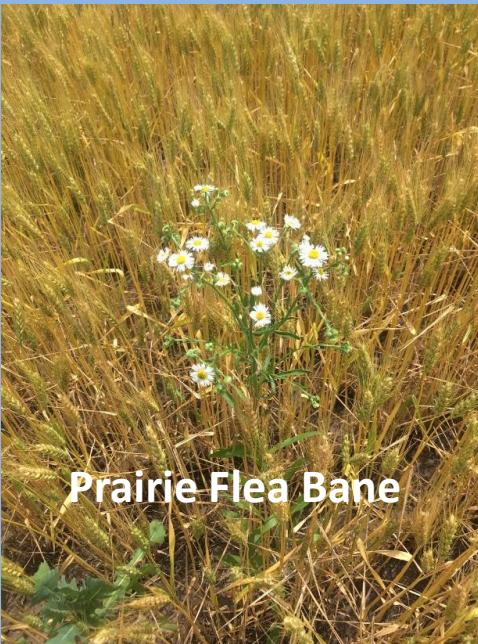
Freeze damage in wheat

Canada Thistle – Noxious (Prohibited Weed)





Yellow Sweet Clover



Prairie Flea Bane



Marestail



Poke weed

Examples of common weeds one might see in a field. Common weeds are not an issue unless they impede inspection.



Kochia

Lambsquarter



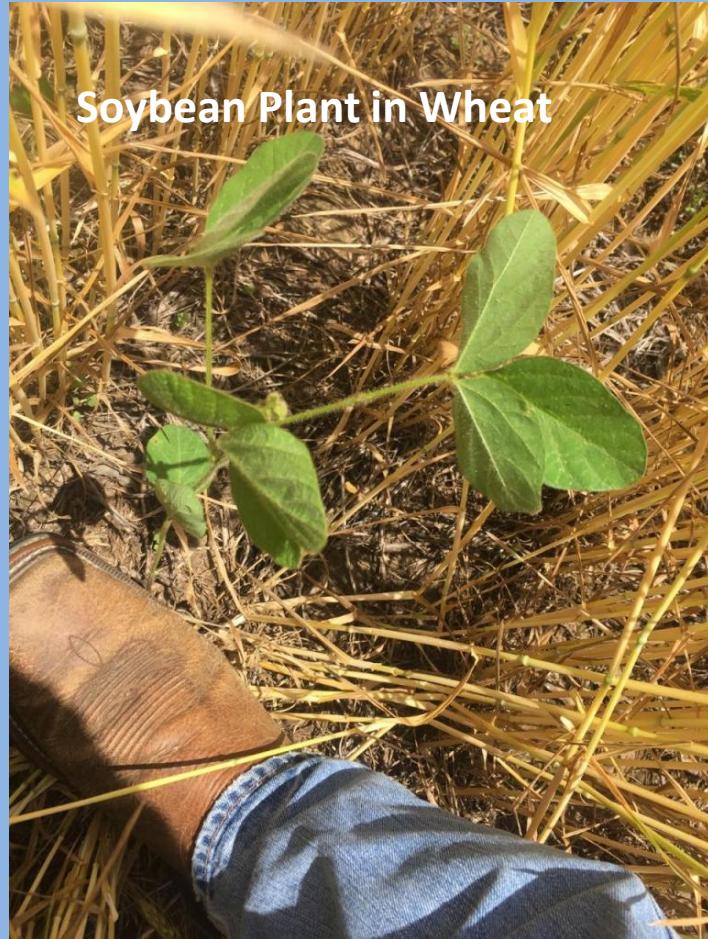
Ergot in rye. Can also affect wheat and other grasses. The dog-toenail like sclerotia contain alkaloids which are toxic and some say that it was ergot that lead to strange behaviors which in turn led to the Salem witch trials.



Bull Thistle

Bull Thistle is a commonly seen thistle. It is a common weed and should not be confused with Musk Thistle which is a prohibited noxious weed.

Other plants you might see



Common Weeds

**Yellow Goatsbeard
in amongst the
prickly lettuce and
downy brome**



Scab KSU
Plant
Pathology



Head Scab, or Fusarium Head Blight (FHB).

FHB can occur when wet cool weather occurs during wheat flowering. The fungus enters the wheat spike at a floret and disrupts vascular flow at point of entry and above which accounts for the characteristic half-dead spike. You may be able to see reddish coloration at the base of the affected spikelets.

FHB can be a major disease in some years. The seed are shrivelled and will get a white to pink mycelial coverage. These shrunken kernels are called “tombstones”