K-STATE RESEARCH & EXTENSION

Field Diagnosis Check List

Things to take to the field: shovel, moisture probe, soil test probe, soil sample bags, plastic bucket, zip lock bags and trash bags with twist ties, hand lens, pocket knife, camera, collection of crop production handbooks and diagnosing production problems booklets, plant disease and weed books.

Cooperator____________________________ County_________________________

Field name or # __________________________ Soil series ___________________

Present crop __________________ Planting date __________ Planting rate __________

Variety/hybrid __________________ Type of planter __________________________

Soil condition at planting________________________________________________

Problem Assessment

Date symptoms first appeared __________

Visible symptoms: Stunting_______ Wilting ______ Leaf tip dieback __________

Discoloration (what color, which leaves or parts of leaves) __________________________

Leaf spots or injury ________________ Abnormal/twisted growth ________________

Mosaic pattern ________________ Damage to roots __________________________

Insect damage ________________ Disease symptoms __________________________

Field pattern of symptoms: Thin stands ____________ Yelling ____________

Browning ____________ Strips in field ____________ Edge of field ____________

Width of pattern ____________ Does pattern match equipment width? ____________

Could previous crop management have caused problem? __________________________

Have there been any recent weather conditions that could have caused the problem?

____________________________

Are there any areas in the field that look normal? ______

Describe growth stage and relative size of normal plants compared to affected plants

____________________________________

Current management practices
Herbicide(s) ______________________ When & rate applied _______________________

Method of application __________ Other herbicide considerations _______________________

Fertility program: List source and amount of N \( \text{P}_2\text{O}_5 \) \( \text{K}_2\text{O} \) S Zn Other

preplant _________________________________________________

planting time starter ________________________________________

topdress/sidedress ________________________________________

Total __________________________________________________

Other fertility considerations (such as manure applications) ________________________________

Insecticide(s) ________________ When & how much applied _________________________

Method of application ___________________

Other insecticide considerations _________________________________________________

Seed treatment (including inoculants) ________________

**Field History**

Tillage: type and number of operations _________________________________________________

Any compaction problems (tilled wet?) _________________________________________________

General soil conditions (such as, eroded, sides slopes, thin & shallow, alkali or sodic spots, deep/good, etc.) _________________________________________________

Was previous crop residue distributed uniformly? ______________________________________

Soil test results: nutrient levels N _______ P _______ K _______ pH ______

Organic matter _______ year sampled _______ sampling depth __________

Other considerations about soil test _________________________________________________

Irrigation: Type ________________ Amount ________________

Water electroconductivity __________

Any irrigation problems ____________________________________________________________

Previous crop ________________________
Fertility __________________________

Herbicides _______________ When applied & rate _______________________________

Level of weed control _______________ Weather conditions _________________

Type of tillage _________________ Harvest conditions _________________

Compaction ___________________ Yield level ______________________

Draw a map of where the damaged areas occur in the field:

For more information and help, please contact your local County Research & Extension agent.

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