

# Crop Troubleshooting Checklist

Customer: \_\_\_\_\_ Date: \_\_\_\_\_  
Address: \_\_\_\_\_

## CLIMATE:

Temperature: \_\_\_\_\_  
heat \_\_\_\_\_  
frost \_\_\_\_\_

Moisture: \_\_\_\_\_  
normal \_\_\_\_\_  
abnormal \_\_\_\_\_

Wind: \_\_\_\_\_

Hail: \_\_\_\_\_

Lightning: \_\_\_\_\_

## CULTURAL PRACTICES

Tillage: \_\_\_\_\_  
Tillage depth: \_\_\_\_\_  
Tillage date: \_\_\_\_\_  
Tillage method: \_\_\_\_\_  
No tillage: \_\_\_\_\_

Planting: \_\_\_\_\_  
Date: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Equipment condition: \_\_\_\_\_  
Seed bed condition: \_\_\_\_\_  
Crusting of soil: \_\_\_\_\_

Compaction of soil:  
Use a spade to dig or compaction tester: a spade should  
penetrate the soil easily

Old buildings or fence line present: \_\_\_\_\_

Other: \_\_\_\_\_

## PREVIOUS CROP: \_\_\_\_\_

Yield: \_\_\_\_\_

Fertilizer: \_\_\_\_\_  
Rate: \_\_\_\_\_  
Type: \_\_\_\_\_

Herbicide: \_\_\_\_\_  
Rate: \_\_\_\_\_  
Type: \_\_\_\_\_

Insecticide: \_\_\_\_\_  
Rate: \_\_\_\_\_  
Type: \_\_\_\_\_

Lime: \_\_\_\_\_  
Rate: \_\_\_\_\_  
Purity: \_\_\_\_\_  
Year: \_\_\_\_\_

Soil: \_\_\_\_\_  
Soil type: \_\_\_\_\_  
Characteristics: \_\_\_\_\_

Tillage: \_\_\_\_\_  
Implement type: \_\_\_\_\_  
Direction: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Worked when wet: \_\_\_\_\_

## TESTING:

Soil test results: \_\_\_\_\_  
Previous test: pH \_\_\_\_\_ P \_\_\_\_\_ K \_\_\_\_\_ ppm  
current test taken: yes \_\_\_\_\_ no \_\_\_\_\_

Plant tissue results: \_\_\_\_\_  
current test: \_\_\_\_\_

Photographs of area and plant leaf symptoms:  
yes \_\_\_\_\_ no \_\_\_\_\_

Compaction tester readings: \_\_\_\_\_  
Psi \_\_\_\_\_  
depth of readings: \_\_\_\_\_

---

---

## PRESENT CROP SPECIES: \_\_\_\_\_

Variety: \_\_\_\_\_

Genetic background: \_\_\_\_\_

Plant population: \_\_\_\_\_

Fertilizer: \_\_\_\_\_

Rate: \_\_\_\_\_  
Type: \_\_\_\_\_  
Time of application: \_\_\_\_\_ spring \_\_\_\_\_ fall  
Starter: \_\_\_\_\_ rate \_\_\_\_\_ analysis  
Sidedress: \_\_\_\_\_ material \_\_\_\_\_ rate

Check the equipment for accuracy:

Was the planter and sprayer adjusted properly?

Herbicide: \_\_\_\_\_  
Rate: \_\_\_\_\_  
Type: \_\_\_\_\_

Insecticide: \_\_\_\_\_  
Rate: \_\_\_\_\_  
Type: \_\_\_\_\_

Manure: \_\_\_\_\_  
Rate: \_\_\_\_\_  
Type: \_\_\_\_\_

Tillering: \_\_\_\_\_

Root system: \_\_\_\_\_

Restricted: \_\_\_\_\_

Stunted: \_\_\_\_\_

Swollen: \_\_\_\_\_

Malformed: \_\_\_\_\_

Normal

Insects: \_\_\_\_\_

Leaves: \_\_\_\_\_

Roots: \_\_\_\_\_

Nematodes: \_\_\_\_\_

Test results: \_\_\_\_\_

Diseases: \_\_\_\_\_

Leaves: \_\_\_\_\_

Roots: \_\_\_\_\_

Stalk or stem: \_\_\_\_\_ split with a knife

Seedling: \_\_\_\_\_ rotted

Other Symptoms: \_\_\_\_\_

---

---

#### DAMAGE IN THE FIELD:

Symptoms: \_\_\_\_\_

Area of the field: \_\_\_\_\_

Spots in field: \_\_\_\_\_

Strips in field: \_\_\_\_\_

Entire field: \_\_\_\_\_

Pattern described: \_\_\_\_\_

High ground vs. low ground: \_\_\_\_\_

Follow soil types in field: \_\_\_\_\_

Herbicide drift from adjacent field: \_\_\_\_\_

Mechanical injury from implement: \_\_\_\_\_

Planter problems: \_\_\_\_\_

Seed depth: \_\_\_\_\_

Deer feeding: \_\_\_\_\_

Symptoms of leaves: \_\_\_\_\_

Young leaves or old leaves on plant: \_\_\_\_\_

Leaf discoloration or stripes: \_\_\_\_\_

Leaf spots: \_\_\_\_\_ size: \_\_\_\_\_ shape: \_\_\_\_\_

Chlorosis: \_\_\_\_\_

Necrosis: \_\_\_\_\_

Wilting: \_\_\_\_\_

Stunting of growth: \_\_\_\_\_

Holes in leaves: \_\_\_\_\_

Reproductive failure: \_\_\_\_\_

#### OTHER GROWTH FACTORS: \_\_\_\_\_

Topography:

Level

Hilly: \_\_\_\_\_ % slope

Internal drainage: \_\_\_\_\_ good \_\_\_\_\_ poor \_\_\_\_\_

Erosion: \_\_\_\_\_ severe \_\_\_\_\_ moderate \_\_\_\_\_

Low spots: \_\_\_\_\_

Irrigation:

Water quality: \_\_\_\_\_

Rate applied: \_\_\_\_\_

Tile installed:

Spacing: \_\_\_\_\_

Depth: \_\_\_\_\_

Soil type: \_\_\_\_\_

Soil texture: \_\_\_\_\_ % sand \_\_\_\_\_ % silt \_\_\_\_\_ % clay

Soil classification: \_\_\_\_\_

Comments: \_\_\_\_\_

*Checklist provided by Belmond Labs, Belmond, Iowa*