

**CORN CASE STUDY 1**

<b>FROM PRIMARY INFORMATION</b>	
<b>IMPORTANT SYMPTOMS</b>	Stunted growth, yellow leaves, sandy soil
<b>INITIAL DIAGNOSIS</b>	These symptoms are consistent with either nitrogen or potassium deficiency. The yellowed leaves seem to have the V-shaped pattern associated with nitrogen deficiency.
<b>MATCHING SYMPTOMS</b>	Stunted growth, yellow leaves, sandy soil
<b>AFTER READING SECONDARY INFORMATION</b>	
<b>IS YOUR INITIAL DIAGNOSIS CONFIRMED?</b>	Answers will vary.
<b>IF NOT, WHAT IS YOUR NEW DIAGNOSIS?</b>	Answers will vary.
<b>IF NOT, WHAT CAUSED YOU TO CHANGE YOUR DIAGNOSIS?</b>	The second photograph shows a leaf with the V-shaped pattern of yellowing that is consistent with nitrogen deficiency. The fact that the fields have been exposed to heavy rains further supports the nitrogen-deficiency diagnosis.

**CORN CASE STUDY 2**

<b>FROM PRIMARY INFORMATION</b>	
<b>IMPORTANT SYMPTOMS</b>	Stunted growth, yellow leaves, sandy soil
<b>INITIAL DIAGNOSIS</b>	These symptoms are consistent with either nitrogen or potassium deficiency.
<b>MATCHING SYMPTOMS</b>	Stunted growth, yellow leaves, sandy soil
<b>AFTER READING SECONDARY INFORMATION</b>	
<b>IS YOUR INITIAL DIAGNOSIS CONFIRMED?</b>	Answers will vary.
<b>IF NOT, WHAT IS YOUR NEW DIAGNOSIS?</b>	Answers will vary.
<b>IF NOT, WHAT CAUSED YOU TO CHANGE YOUR DIAGNOSIS?</b>	The second photograph shows a yellowed leaf with dried edges that are consistent with potassium deficiency. The fact that the plants have weak stems further supports the potassium-deficiency diagnosis.

**CORN CASE STUDY 3**

<b>FROM PRIMARY INFORMATION</b>	
<b>IMPORTANT SYMPTOMS</b>	Stunted growth, compacted (dense) soil; purple color on some leaves
<b>INITIAL DIAGNOSIS</b>	The symptoms are consistent with phosphorus deficiency.
<b>MATCHING SYMPTOMS</b>	Stunted growth, compacted (dense) soil; purple color on some leaves
<b>AFTER READING SECONDARY INFORMATION</b>	
<b>IS YOUR INITIAL DIAGNOSIS CONFIRMED?</b>	Answers will vary.
<b>IF NOT, WHAT IS YOUR NEW DIAGNOSIS?</b>	Answers will vary.
<b>IF NOT, WHAT CAUSED YOU TO CHANGE YOUR DIAGNOSIS?</b>	Plants mature later than normal. The second photograph of a leaf shows distinct purple coloration, which is characteristic of phosphorus deficiency.