

# CCA Pretest

Nutrient Deficiency Symptoms

# Keys to visual examination:

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- Plant part affected
- Clarity of symptom
- Position on plant (mobile or immobile nutrient)
- Appearance of symptom (similar to other problem?)
- Soil type (likely deficiencies)
- Pattern in field
- Root condition





# N DEFICIENCY



USE PLANT ANALYSIS  
TO CONFIRM VISUAL  
DEFICIENCY SYMPTOMS















	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
Rate	10	40	40
Yield	110	0	80
97.8 Bu/A.			

	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
Rate	0	0	0
Yield	100	160	0
85.6 Bu/A.			





NORMAL

LOW K



**SULPHUR  
DEFICIENT**

**NORMAL**

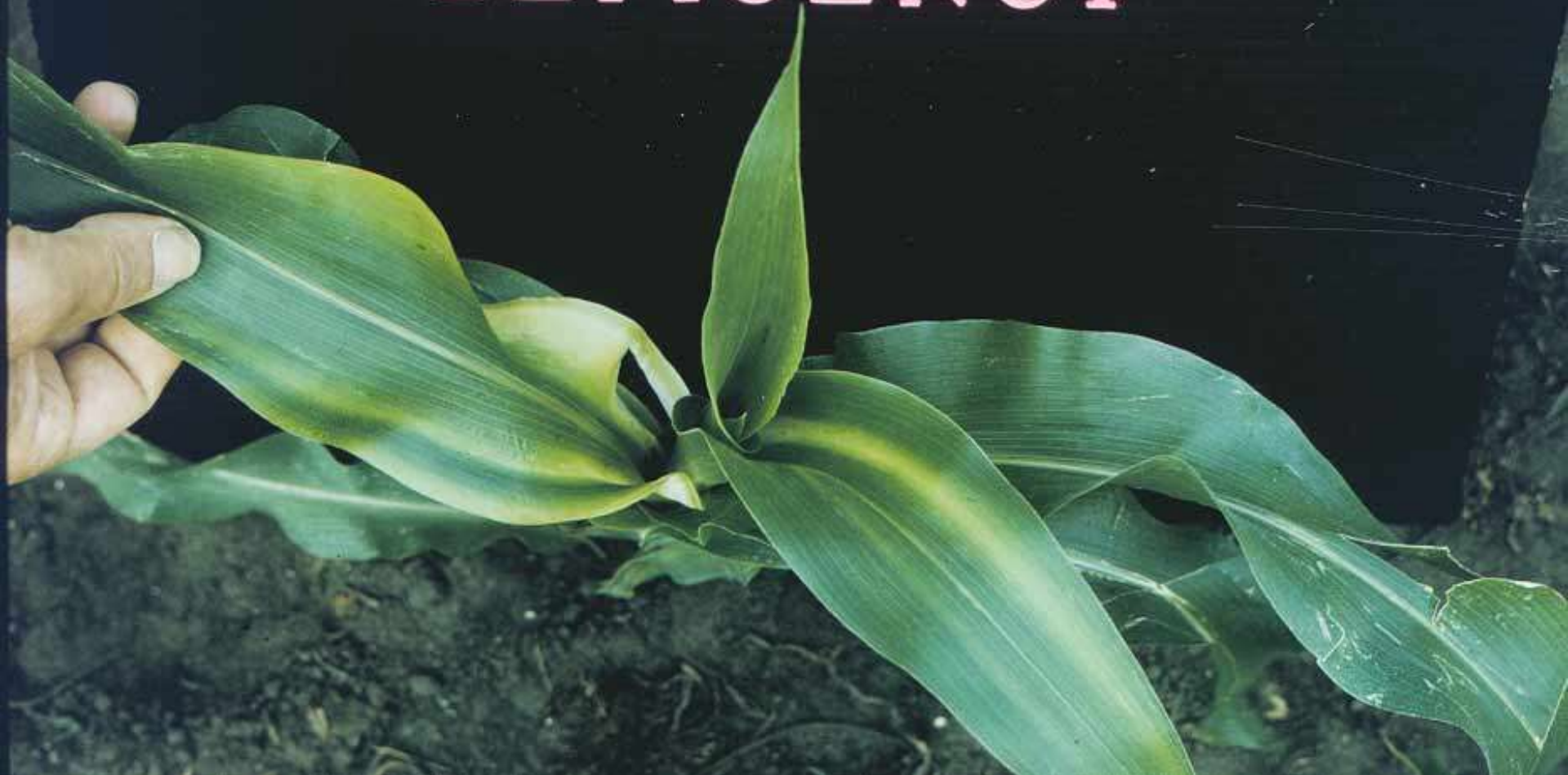








# ZINC DEFICIENCY















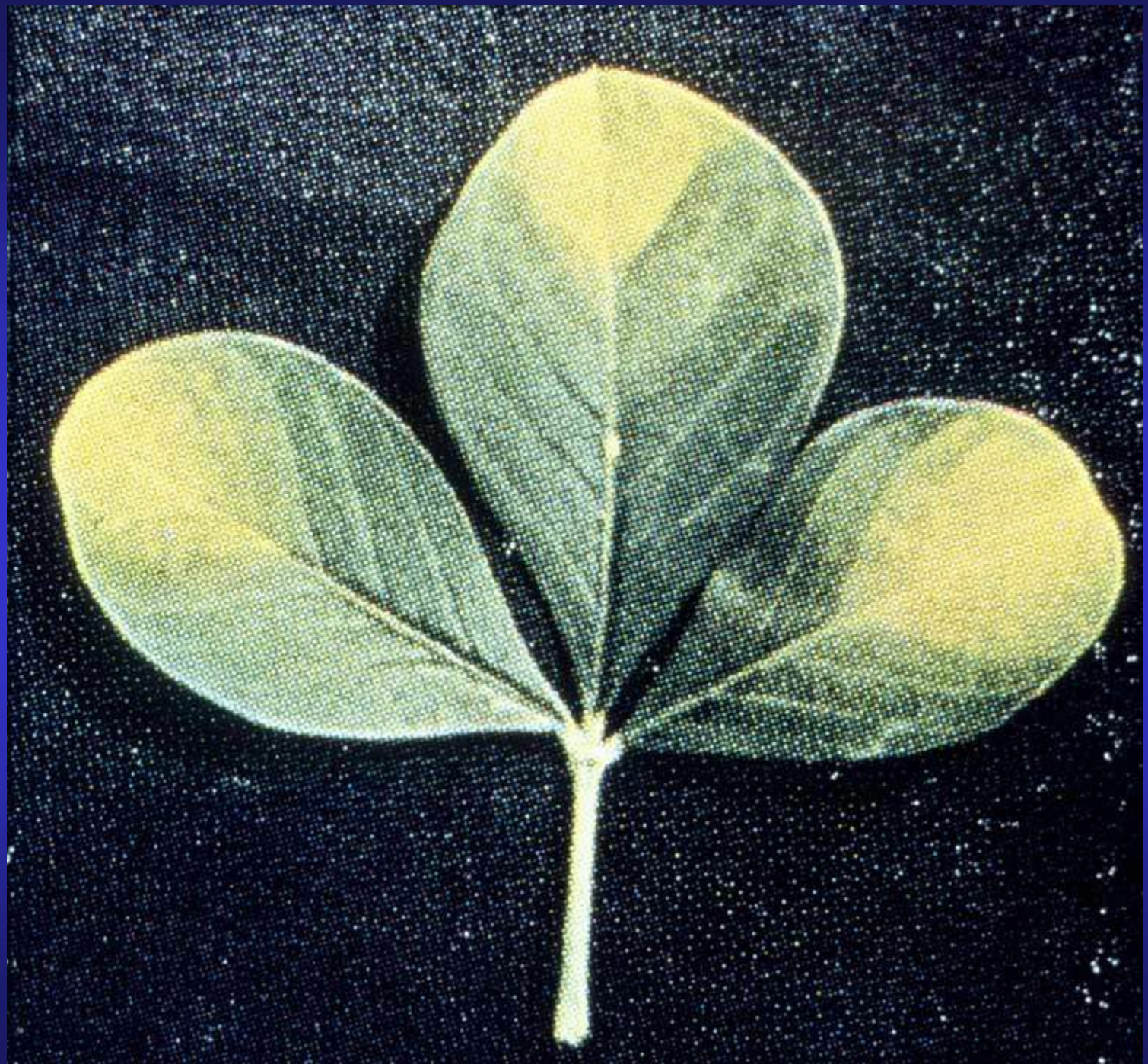




BORON DEF









# POTASSIUM DEFICIENCY



CHLOROSIS  
&  
MARGINAL  
NECROSIS



# K Deficiency









# MANGANESE DEFICIENCY























