

AGRY 515 - Plant Mineral Nutrition

Nutrient Stress and Adaptation

Types of stress

Low Nutrient Availability

Natural vegetation - Type 1 & Type 2

Characteristics

Nutrient Efficiency / Agronomic Efficiency

Nutrient Use Efficiency / Physiological Efficiency

Uptake Efficiency / Recovery efficiency

Potential Mechanisms

Characteristics of nutrient relations in infertile soils

Crop species - desirable attributes

Heavy Metals

Strategies

Exclusion

Tolerance

Avoidance

Metal tolerance Index

Tolerance and Exclusion Mechanisms

Cu, Zn, Ni

Acid Mineral Soils

Al

Mn

Mechanisms of adaptation