From, Availability and mobility of macro and micronutrient in soil and plant

1. Macronutrients: used in large quantities by the plant

a. Structural nutrients: C, H, O b. Primary nutrients: N, P, K c. Secondary nutrients: Ca, Mg, S

2. Micronutrients: used in small quantities by the plant

a. Fe, B, Cu, Cl, Mn, Mo, Zn, Co, Ni

Nutrient	Macro/micro	Uptake form	Mobility in Plant	Mobility in Soil
C 1	C 1 1/		Plant	
Carbon	Carbon Macro	CO_2 ,		
		H_2CO_3		
Hydrogen	Hydrogen Macro	H^+ , OH^- ,		
		H_2O		
Oxygen	Macro	O_2		
Nitrogen	Macro	NO ₃ -, NH ₄ +	Mobile	Mobile as NO ₃ , immobile as
				$\mathrm{NH_4}^+$
Phosphorus	Macro	HPO ₄ ²⁻ ,H ₂ PO ₄ ⁻	Somewhat mobile	Immobile
Potassium	Macro	K ⁺	Very	Somewhat
	1714610		mobile	mobile
Calcium	Macro	Ca ²⁺	Immobile	Somewhat mobile
Magnesium	Macro	Mg ²⁺	Somewhat mobile	Immobile
Sulfur	Macro	SO ₄	Mobile	Mobile
Boron	Micro	H ₃ BO ₃ ,	Immobile	Very mobile
Copper	Micro	Cu ²⁺	Immobile	Immobile
Iron	Micro	BO ₃ Cu ²⁺ Fe ²⁺ , Fe ³⁺	Immobile	Immobile
Manganese	Micro	Mn^{2+}	Immobile	Mobile
Zinc	Micro	Zn ²⁺	Immobile	Immobile
Molybdenum	Micro	MoO ₄	Immobile	Somewhat mobile
Chlorine	Micro	Cl	Mobile	Mobile
Cobalt	Micro	Co ²⁺	Immobile	Somewhat mobile
Nickel	Micro	Ni ²⁺	Mobile	Somewhat mobile