



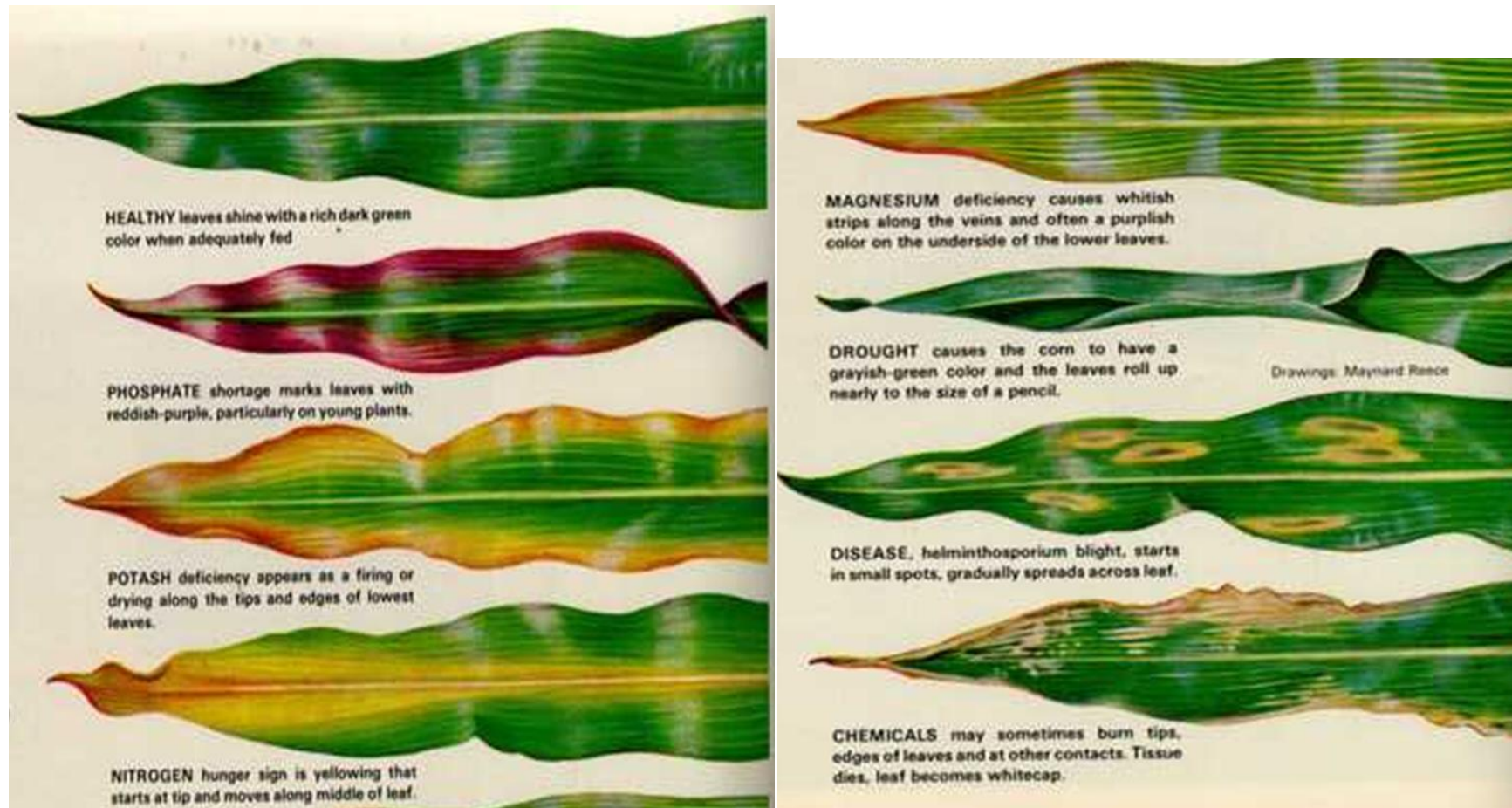
## PLANT NUTRITIONAL DEFICIENCIES SYMPTOMS CHART

Symptoms	Ca	S	Fe	Mn	Zn	B	Cu	N	P	K	Mg	Mo
Chlorosis throughout leaves		Y/O citrus						O Starts @ tips		O starts @ edge		O
Interveinal chlorosis leaves			Y	Y	Y/O legumes						O	
Chlorosis in tiny spots - dicot				Y								
Grey-green spots-monocot				Y								
Bleached/blanched leaves			Y	Y			Y	O				O
Dark green/purple leaf/stem									O			
Bronzed leaves possible					Y						O	
Marginal/tip leaf chlorosis burn								O starts @ tips		O starts @ edge		O starts @ edge
Necrotic spots on leaves										O		
Growing tips die	Y					Y	Y					
Drooping leaves/wilting											O	
Leaf drop							Y	O				O
Strap-like leaves					Y							
Rosetting of leaves					Y	Y	Y					
Distorted leaves	Y					Y	Y			O		O
Reduced flowering/fruiting	*							*	*	*		*
Weak/brittle/thin stems		*							*	*		
Stunted growth						*	*	*	*	*		*
Abnormal root growth	*				*				*			

**Key:** Calcium(Ca); Sulfur(S); Iron(Fe); Manganese(Mn); Zinc (Zn); Boron(B); Copper(Cu); Nitrogen(N); Phosphorus (P); Potassium(K); Magnesium(Mg); Molybdenum(Mo)      Y = Younger    O = Older    \* = present    Chlorosis = Yellow

## Nutritional Deficiencies in Corn

### NUTRIENT DEFICIENCY SYMPTOMS IN CORN



<http://www.ctahr.hawaii.edu/oc/freepubs/pdf/SCM-10.pdf>

<http://www.puricare.co.za/UserFiles/File/Essential%20Nutrients%20for%20Plant%20Growth.pdf>

Uchida, R. Essential Nutrients for Plant Growth: Nutrient Functions and Deficiency Symptoms in Silva, J. A. & Uchida, R., eds., CTAHR UH 2000. Plant Nutrient Management in Hawaii Soils, Approaches for Tropical and Subtropical Agriculture.