

# General Purpose/Hi-Mag

General Purpose (Hi-Mag Formula) 20-7-20<sup>PLUS</sup> is similar to 20-10-20 in its Nitrate to Ammonium ratio but has an elevated amount of Magnesium. The Magnesium in this formula is derived from Magnesium Nitrate which is the most efficient form of Magnesium in its uptake by a plant.

**MIXING RATE FOR 200 PPM NITROGEN**  
 HOSE END SPRAYER: 1:15 ratio- Premix 2 oz. per gallon (15 grams per litre).  
 TANK: 0.13 oz. per gallon (1 gram per litre).  
 PROPORTIONER: 1:100 ratio use 13.33 oz. per gal. of concentrate (100 grams per litre).  
 OTHER RATIOS: Multiply ratio times weight divided by 100.  
 OTHER PPM: Mul-

<b>Guaranteed Analysis</b> (For continuous liquid feeding)			
20-7-20+ General Purpose/Hi-Mag	Percent	Lbs/Ton	Concentration at 200 PPM
Total Nitrogen (N) .....	20%	400	200 PPM as N
7.70% Ammoniacal Nitrogen			
12.30% Nitrate Nitrogen			
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	7%	140	70 PPM as P <sub>2</sub> O <sub>5</sub>
Soluble Potash (K <sub>2</sub> O) .....	20%	400	200 PPM as K <sub>2</sub> O
Magnesium (Mg) .....	0.50%	10	5.0 PPM as Mg
0.50% Water Soluble Magnesium (Mg)			
Sulfur (S) .....	0.7%	14	7.0 PPM as S
0.7% Combined Sulfur (S)			
Boron (B) .....	0.02%	0.40	0.20 PPM as B
Copper (Cu) .....	0.01%	0.20	0.10 PPM as Cu
0.01% Chelated Copper (Cu)			
Iron (Fe) .....	0.10%	2.0	1.0 PPM as Fe
0.10% Chelated Iron (Fe)			
Manganese (Mn) .....	0.06%	1.20	0.60 PPM as Mn
0.06% Chelated Manganese (Mn)			
Molybdenum (Mo) .....	0.01%	0.20	0.10 PPM as Mo
Zinc (Zn) .....	0.01%	0.20	0.10 PPM as Zn
0.01% Chelated Zinc (Zn)			

Derived from Ammonium Nitrate, Potassium, Potassium Nitrate, Magnesium Sulphate, Borax, Sodium Molybdate, Copper EDTA, Iron EDTA, Manganese EDTA and Zinc EDTA.  
 Potential acidity equivalent to 377 lbs. Calcium Carbonate per ton.

<b>Nitrogen Parts Per Million Chart</b>				
<b>Injector Ratio</b>	<b>Ounces required per Gallon of concentrate</b>			
	<b>100 PPM</b>	<b>150 PPM</b>	<b>200 PPM</b>	<b>300 PPM</b>
<b>1:50</b>	3.33	4.99	6.66	9.99
<b>1:100</b>	6.66	9.99	13.32	19.98
<b>1:150</b>	9.99	14.99	19.98	29.97
<b>1:200</b>	13.33	19.99	26.66	39.99
<b>1:300</b>	19.99	29.98	39.98	59.97

Based on 1/2 gallon per square foot coverage.  
 Two Tablespoons equals One Ounce (approximately)  
 One Cup equals One Pound (approximately)

<b>Conductivity of 20-7-20+</b> using distilled water mixed at: (allow +/- 10%)	
50 PPM Nitrogen =	.33 Millimhos/CM
100 PPM Nitrogen =	.65 Millimhos/CM
150 PPM Nitrogen =	.99 Millimhos/CM
200 PPM Nitrogen =	1.30 Millimhos/CM
300 PPM Nitrogen =	1.95 Millimhos/CM
400 PPM Nitrogen =	2.60 Millimhos/CM
500 PPM Nitrogen =	3.25 Millimhos/CM