

**Cal-Mag Special**

Cal Mag Special 17-5-17<sup>PLUS</sup> is probably very close to being the perfect fertilizer all in one bag. It contains all the major, secondary and minor elements almost any crop would need. NPK, Calcium, Magnesium, Six trace elements and a very high ratio of nitrogen in nitrate form. The calcium to magnesium ratio is perfectly proportioned so that they will not impede one another's uptake by acting as antagonists. And while slightly on the acid side, this formula allows the delivery of these essential cations without a major impact on media pH.

**MIXING RATE FOR 200 PPM NITROGEN**  
**HOSE END SPRAYER:** 1:15 ratio- Premix 2.35 oz. per gallon (17.65 grams per litre).  
**TANK:** 0.16 oz. per gallon (1.18 grams per litre).  
**PROPORTIONER:** 1:100 ratio use 15.88 oz. per gal. of concentrate (118 grams per litre).  
**OTHER RATIOS:** Multiply ratio times weight divided by 100.  
**OTHER PPM:** Multiply desired PPM times weight divided by 200. Increase or decrease PPMN according to crop response.

<b>Guaranteed Analysis</b> (For continuous liquid feeding)			
<b>17-5-17+ Cal-Mag Special</b>	<b>Percent</b>	<b>Lbs/Ton</b>	<b>Concentration at 200 PPM</b>
Total Nitrogen (N) .....	17%	340	200 PPM as N
4.42% Ammoniacal Nitrogen			
12.58% Nitrate Nitrogen			
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	5%	100	59 PPM as P <sub>2</sub> O <sub>5</sub>
Soluble Potash (K <sub>2</sub> O) .....	17%	340	200 PPM as K <sub>2</sub> O
Calcium (Ca) .....	4.0%	80	47 PPM as Ca
Magnesium (Mg) .....	1.0%	20	12 PPM as Mg
Sulfur (S) .....	0.06%	1.2	0.71 PPM as S
0.06% Combined Sulfur (S)			
Boron (B) .....	0.02%	0.40	0.24 PPM as B
Copper (Cu) .....	0.02%	0.40	0.24 PPM as Cu
0.02% Chelated Copper (Cu)			
Iron (Fe) .....	0.078%	1.56	0.88 PPM as Fe
0.078% Chelated Iron (Fe)			
Total Manganese (Mn) .....	0.05%	1.0	0.59 PPM as Mn
0.05% Water soluble Manganese (Mn)			
Molybdenum (Mo) .....	0.0007%	0.014	0.008 PPM as Mo
Zinc (Zn) .....	0.05%	1.0	0.59 PPM as Zn
0.05% Water soluble Zinc (Zn)			
Derived from Ammonium Nitrate, Potassium Nitrate, Potassium Phosphate, Calcium Nitrate, Magnesium Nitrate, Borax, Sodium Molybdate, Iron EDTA, and Copper Sulphate, Manganese Sulphate and Zinc Sulphate. Potential acidity equivalent to 59 pounds 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>	3.92	5.88	7.84	11.76
<b>1:100</b>	7.84	11.76	15.68	23.52
<b>1:150</b>	11.76	17.64	23.52	35.28
<b>1:200</b>	15.68	23.52	31.36	47.04
<b>1:300</b>	23.52	35.28	47.04	71.56
Based on 1/2 gallon per square foot coverage. Two Tablespoons equals One Ounce (approximately) One Cup equals One Pound (approximately)				

<b>Conductivity of 17-5-17+ using distilled water mixed at: (allow +/- 10%)</b>	
50 PPM Nitrogen =	.34 Millimhos/CM
100 PPM Nitrogen =	.68 Millimhos/CM
150 PPM Nitrogen =	1.01 Millimhos/CM
200 PPM Nitrogen =	1.37 Millimhos/CM
300 PPM Nitrogen =	2.04 Millimhos/CM
400 PPM Nitrogen =	2.70 Millimhos/CM
500 PPM Nitrogen =	3.40 Millimhos/CM