

Blooming & Flowering Plant Food

Blooming & Flowering Plant Food 12-31-14^{PLUS} is used as an all purpose feed for greenhouse crops; especially useful to promote vigorous development of roots in seedlings and cuttings, for reducing shock to transplants and for finishing off blooming crops. To insure successful initiation of embryonic flower bud development 12-31-14 should be used exclusively during the early stages of growth of all crops. Sown seed can be watered in with this formula as well as cuttings when stuck. 12-31-14 can also be used as the watering in solution for any plant being shifted or transplanted. This formula also induces prolific blooms with flowers of deeper color and longer life as cut flowers.

GREENHOUSE MIXING RATE FOR 200 PPM NITROGEN

HOSE END SPRAYER:
1:15 ratio- Premix
3.33 oz. in 1 gallon (25 grams per litre).
TANK: 0.22 oz. per gallon (1.67 grams per litre).
PROPORTIONER:
1:100 ratio use 22.21 oz. per gal. of concentrate (167 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 PPM according to response.

Guaranteed Analysis (For continuous liquid feeding)			
12-31-14+ Blooming & Flowering Plant	Percent	Lbs/Ton	Concentration at 200 PPM
Total Nitrogen (N)	12%	240	200 PPM as N
8.28% Ammoniacal Nitrogen			
3.72% Nitrate Nitrogen			
Available Phosphate (P ₂ O ₅)	31%	620	517 PPM as P ₂ O ₅
Soluble Potash (K ₂ O)	14%	280	233 PPM as K ₂ O
Magnesium (Mg)	0.05%	1.0	0.83 PPM as Mg
Sulphur (S)	3%	6.0	50 PPM as S
3% Combined Sulphur (S)			
Boron (B)	0.02%	0.4	0.33 PPM as B
Copper (Cu)	0.05%	1.0	0.83 PPM as Cu
0.05% Chelated Copper (Cu)			
Iron (Fe)	0.15%	3.0	2.50 PPM as Fe
0.15% Chelated Iron (Fe)			
Total Manganese (Mn)	0.05%	1.0	0.83 PPM as Mn
0.05% Chelated Manganese (Mn)			
Molybdenum (Mo)	0.0009%	0.018	0.015 PPM as Mo
Zinc (Zn)	0.06%	1.2	1.00 PPM as Zn
0.06% Chelated Zinc (Zn)			

Derived from Ammonium Phosphate, Ammonium Sulfate, Magnesium Sulphate, Borax, Sodium Molybdate and the EDTA form of Copper, Iron, Manganese and Zinc. Potential acidity equivalent to 697 lbs. Calcium Carbonate per ton.

Nitrogen Parts Per Million Chart				
Injector Ratio	Ounces required per Gallon of concentrate			
	100 PPM	150 PPM	200 PPM	300 PPM
1:50	5.13	7.69	10.26	15.39
1:100	10.25	15.37	20.50	30.75
1:150	15.39	23.08	30.78	46.17
1:200	20.50	30.75	41.00	61.50
1:300	30.76	46.14	61.52	92.28

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

Conductivity of 12-31-14+ using distilled water mixed at: (allow +/- 10%)	
50 PPM Nitrogen =	.42 Millimhos/CM
100 PPM Nitrogen =	.84 Millimhos/CM
150 PPM Nitrogen =	1.25 Millimhos/CM
200 PPM Nitrogen =	1.67 Millimhos/CM
300 PPM Nitrogen =	2.51 Millimhos/CM
400 PPM Nitrogen =	3.34 Millimhos/CM
500 PPM Nitrogen =	4.18 Millimhos/CM