



Bloom & Flower Plant Food 12-31-14 PLUS

- **Develops larger blooms and more of them**
- **Stiffens stems and roots**

Bloom & Flower 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.

Guaranteed Analysis (For continuous liquid feeding)			
12-31-14+	Percent	Lbs/Ton	Concentration at
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
Sulfur (S)	3.0%	6.0	50 PPM as S
3.0% Combined Sulfur (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)			
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 Sulfur, Borax, Sodium Molybdate and the EDTA form of Copper, Iron, Manganese and Zinc. CAUTION: This fertilizer is to be used on soils which responds to molybdenum. Crops high in molybdenum are toxic to grazing animals. Potential acidity equivalent to 697 lbs. Calcium Carbonate per ton.

GREENHOUSE MIXING RATE FOR 100 PPM NITROGEN

HOSE END SPRAYER: 1:15 ratio- Premix 1.67 oz. in 1 gallon (12.5 grams per liter).

TANK: 0.11 oz. per gallon (0.83 grams per liter).

PROPORTIONER: 1:100 ratio use 11.11 oz. per gal. of concentrate (167 grams per liter).

OTHER RATIOS: Multiply ratio times weight divided by 100.

OTHER PPM: Multiply desired PPM times weight divided by 100. Increase or decrease PPM according to response.

NITROGEN PARTS PER MILLION CHART

Parts per Million	50	100	150	200	300	400
Injector Ratios	Ounces required per gal of concentrate					
1:15	.77	1.54	2.31	3.08	4.61	6.15
1:50	2.56	5.13	7.69	10.25	15.40	20.50
1:100	5.13	10.25	15.38	20.50	30.80	41.01
1:200	10.25	20.50	30.76	41.01	61.50	*
1:300	15.38	30.76	46.14	61.51	*	*

EC (+ - 10%) mmhos/cm.42 .84 1.25 1.67 2.51 3.34

*Maximum solubility approx. 60 oz. per gallon



Packaged in: 25lb (11.34kg) bags, 88 bags/pallet

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