

# Rose Food

Rose Food 19-26-14<sup>PLUS</sup> is an exclusive formulation that Plant Marvel Laboratories developed specifically for roses. It has a balance of NPK that should promote vigorous green growth and prolific blooming qualities. Our original formula for roses was a 20-30-10 developed many years ago. Over time and through experiments it was learned that roses, which are gross feeders, responded better with slightly higher levels of potash in relation to the nitrogen and phosphorous. This new formula will provide lush foliage, sturdy stems, and extensive vigorous root system and larger blooms of deep color and longer keeping qualities.

**MIXING RATE FOR  
200 PPM NITRO-  
GEN**

HOSE END SPRAYER:  
1:15 ratio- Premix 2.1  
oz. per gallon (15.79  
grams per litre).

TANK: 0.14 oz. per  
gallon (1.05 grams  
per litre).

PROPORTIONER:  
1:100 ratio use 14.03  
oz. per gal. of concen-  
trate (105 grams per  
litre).

OTHER RATIOS:  
Multiply ratio times  
weight divided by  
100.

OTHER PPM: Multi-  
ply desired PPM times  
weight divided by  
200. Increase or de-  
crease PPMN accord-  
ing to crop response.

<b>Guaranteed Analysis</b> (For continuous liquid feeding)			
<b>19-26-14+ Rose Food</b>	<b>Percent</b>	<b>Lbs/Ton</b>	<b>Concentration at 200 PPM</b>
Total Nitrogen (N) .....	19%	380	200 PPM as N
5.93% Ammoniacal Nitrogen			
4.17% Nitrate Nitrogen			
8.90% Urea Nitrogen			
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	26%	520	274 PPM as P <sub>2</sub> O <sub>5</sub>
Soluble Potash (K <sub>2</sub> O) .....	14%	280	147 PPM as K <sub>2</sub> O
Magnesium (Mg) .....	0.05%	1.0	0.53 PPM as Mg
Sulphur (S) .....	1%	20	11 PPM as S
1% Combined Sulphur (S)			
Boron (B) .....	0.02%	0.40	0.21 PPM as B
Copper (Cu) .....	0.05%	1.0	0.53 PPM as Cu
0.05% Chelated Copper (Cu)			
Iron (Fe) .....	0.10%	2.0	1.05 PPM as Fe
0.10% Chelated Iron (Fe)			
Manganese (Mn) .....	0.05%	1.0	0.53 PPM as Mn
0.05% Chelated Manganese (Mn)			
Molybdenum (Mo) .....	0.0009%	.018	0.01 PPM as Mo
Zinc (Zn) .....	0.05%	1.0	0.53 PPM as Zn
0.05% Chelated Zinc (Zn)			
Derived from Ammonium Phosphate, Potassium Nitrate, Ammonium Sulphate, Magnesium Sulphate, Urea, Borax, Sodium Molybdate, and the EDTA form of Copper, Iron, Manganese and Zinc. Potential acidity equivalent to 723 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>	3.51	5.26	7.02	10.53
<b>1:100</b>	7.01	10.52	14.02	21.03
<b>1:150</b>	10.53	15.79	21.06	31.59
<b>1:200</b>	14.03	21.04	28.06	42.09
<b>1:300</b>	21.04	31.56	42.08	63.12
Based on 1/2 gallon per square foot coverage. Two Tablespoons equals One Ounce (approximately) One Cup equals One Pound (approximately)				

<b>Conductivity of 19-26-14+ using distilled water mixed at: (allow +/- 10%)</b>	
50 PPM Nitrogen =	.21 Millimhos/CM
100 PPM Nitrogen =	.42 Millimhos/CM
150 PPM Nitrogen =	.63 Millimhos/CM
200 PPM Nitrogen =	.84 Millimhos/CM
300 PPM Nitrogen =	1.25 Millimhos/CM
400 PPM Nitrogen =	1.67 Millimhos/CM
500 PPM Nitrogen =	2.09 Millimhos/CM