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Custom formulations are available as well as tolling and private labeling.

To those of you that know us and use our products, we thank you!

To those of you who are just learning about us for the first time,
we welcome you, and know that you will find these to be
the time tested finest products.

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## DOGGETT'S PROFESSIONAL 20-10-20 GENERAL PURPOSE GREENHOUSE FERTILIZER

### 100% Soluble for Continuous Liquid Feed Programs

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N) 20.00%
8.2% Ammoniacal Nitrogen
11.8% Nitrate Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> ). 10.00%
Soluble Potash (K <sub>2</sub> O) 20.00%
Magnesium (Mg) 0.15%
0.15% Water Soluble Magnesium
Sulfur (S) 0.45%
0.45% Combined Sulfur(S)
Boron (B) 0.02%
Copper (Cu) 0.05%
0.05% Chelated Copper (Cu)
Iron (Fe)0.10%
0.10% Chelated Iron (Fe)
Manganese (Mn)0.05%
0.05% Chelated Manganese (Mn)
Molybdenum (Mo) 0.01%
Zinc (Zn)0.05%
0.05% Chelated Zinc (Zn)

#### **NUTRIENTS DERIVED FROM:**

Ammonium Nitrate, Potassium Nitrate, Monopotassium Phosphate, Potassium Sulphate, Magnesium Sulphate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA.

Potential Acidity: 420 lbs. Calcium carbonate equivalent per ton.

Warning – Product contains molybdenum. Do not apply to crops that will be grazed by ruminant animals.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### MIXING INSTRUCTIONS

Amount of dry fertilizer (oz.) to add to each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION				
Desired N	Injector Setting E.C.Value			
feed Rate	1:15	1:100	1:200	(mmhos)
50 ppm	.5	3.38	6.75	.32
100 ppm	1.0	6.75	13.5	.64
200 ppm	2.0	13.5	27.0	1.28

Limit of solubility = 4.5 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag.

In solution, color will remain consistent.

SUGGESTED PPM FEEDING RATES
Doggett's Professional recommends these
feed rates for the following crops.
Remember to also consider plant stage,
pot size, leaching fraction and
environmental conditions when applying
suggested rates. The quality of your water
source will also affect overall feed rates,
frequency and other additions in order to
achieve optimum growth.

	Continuous Liquid Feed (CLF)	Periodic Every 7-10 Days
Plugs/Salt Sensitive	50-125	175-225
Woody Ornamentals	50-100	200-375
Bedding Plants	100-150	200-250
General Foliage	100-200	250-300
Cut Flowers	175-225	300-450
Garden/Landscape	200-300	400-750
Heavy Feeders	200-300	350-400
Light Feeders	75-150	200-250





### **DOGGETT'S PROFESSIONAL 15-5-15 CAL-MAG SPECIAL GREENHOUSE FERTILIZER**

100% Soluble for Continuous Liquid Feed Programs

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)15.00%
4.14% Ammoniacal Nitrogen
10.86% Nitrate Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> ) 5.00%
Soluble Potash (K <sub>2</sub> O)15.00%
Calcium (Ca)4.00%
Magnesium (Mg)2.00%
2.00% Water Soluble Magnesium
Sulfur (S)2.11%
2.11% Combined Sulfur(S)
Boron (B)0.02%
Copper (Cu)0.01%
0.01% Chelated Copper (Cu)
Iron (Fe)0.10%
0.10% Chelated Iron (Fe)
Manganese (Mn)0.05%
0.05% Chelated Manganese (Mn)
Molybdenum (Mo)0.007%
Zinc (Zn)0.01%
0.01% Chelated Zinc (Zn)

#### NUTRIENTS DERIVED FROM:

Ammonium Nitrate, Potassium Nitrate, Calcium Nitrate, Magnesium Nitrate, Potassium Sulfate, Monopotassium Phosphate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA. Zinc EDTA.

Potential Basicity: 75 lbs. Calcium carbonate equivalent per ton.

Warning – Product contains molybdenum. Do not apply to crops that will be grazed by ruminant animals.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### MIXING INSTRUCTIONS

Amount of dry fertilizer (oz.) to add to each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION				
Desired N	Injector Setting E.C.Value			
feed Rate	1:15	1:100	1:200	(mmhos)
50 ppm	.67	4.44	8.89	.36
100 ppm	1.33	8.89	17.77	.67
200 ppm	2.67	17.77	35.54	1.35

Limit of solubility = 4.5 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.

SUGGESTED PPM FEEDING RATES Doggett's Professional recommends these feed rates for the following crops. Remember to also consider plant stage, pot size, leaching fraction and environmental conditions when applying suggested rates. The quality of your water source will also affect overall feed rates, frequency and other additions in order to achieve optimum growth.

	Continuous Liquid Feed (CLF)	Periodic (Every 7-10 days)
Plugs	50-125	150-225
Bedding Plants	100-150	200-250
General Foliage	100-200	200-300
Garden/Landscape	50-100	150-350
Mums	250-300	350-400







# DOGGETT'S PROFESSIONAL 21-7-7 ACID SPECIAL GREENHOUSE FERTILIZER

100% Soluble for Continuous Liquid Feed Programs

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N) 21.00%
11.26% Ammoniacal Nitrogen
2.00% Nitrate Nitrogen
7.74% Urea Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> ) 7.00%
Soluble Potash (K <sub>2</sub> O) 7.00%
Magnesium (Mg) 0.70%
0.70% Water Soluble Magnesium
Sulfur (S)12.36%
12.36% Combined Sulfur(S)
` '
12.36% Combined Sulfur(S) Boron (B)0.01%
12.36% Combined Sulfur(S)
12.36% Combined Sulfur(S) Boron (B)

#### **NUTRIENTS DERIVED FROM:**

Ammonium Sulphate, Urea, Ammonium Nitrate, Potassium Sulphate, Monoammonium Phosphate, Magnesium Sulphate, Boric Acid, Sodium Molybdate, Iron EDTA, Manganese EDTA and Zinc EDTA.

Potential Acidity: 1556 lbs. Calcium carbonate equivalent per ton.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### MIXING INSTRUCTIONS

Amount of dry fertilizer (oz.) to add to each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION				
Desired N	Inject	or Setti	ng	E.C.Value
feed Rate	1:15	1:100	1:200	(mmhos)
50 ppm	.48	3.17	6.35	.25
100 ppm	.95	6.35	12.69	.48
200 ppm	1.90	12.69	25.39	1.00

Limit of solubility = 3.75 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.

SUGGESTED PPM FEEDING RATES Doggett's Professional recommends these feed rates for the following crops. Remember to also consider plant stage, pot size, leaching fraction and environmental conditions when applying suggested rates. The quality of your water source will also affect overall feed rates, frequency and other additions in order to achieve optimum growth.

	Continuous	Periodic
	Liquid Feed	(Every
	(CLF)	7-10 days)
Acid loving plants	100-200	200-300
Garden/Landscape	50-100	150-350





### **DOGGETT'S PROFESSIONAL 22-5-16 MUM SPECIAL GREENHOUSE FERTILIZER**

100% Soluble for Continuous Liquid Feed Programs

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N) 22.00%
10% Ammoniacal Nitrogen
12% Nitrate Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> ) 5.00%
Soluble Potash (K <sub>2</sub> O) 16.00%
Magnesium (Mg) 0.05%
.05% Water Soluble Magnesium
Sulfur (S)2.70%
2.7% Combined Sulfur(S)
Boron (B) 0.02%
Copper (Cu) 0.01%
0.01% Chelated Copper (Cu)
Iron (Fe)0.20%
0.20% Chelated Iron (Fe)
Manganese (Mn) 0.05%
0.05% Chelated Manganese (Mn)
Molybdenum (Mo) 0.01%
Zinc (Zn) 0.05%
0.05% Chelated Zinc (Zn)

#### **NUTRIENTS DERIVED FROM:**

Ammonium Nitrate, Potassium Nitrate, Potassium Sulfate, Monoammonium Phosphate, Magnesium Nitrate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA and Zinc EDTA.

Potential acidity equivalent to 520 pounds calcium carbonate per

Warning - Product contains molybdenum. Do not apply to crops that will be grazed by ruminant animals.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### MIXING INSTRUCTIONS Amount of dry fertilizer (oz.) to add to

each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION				
Desired N	Injector Setting E.G			E.C.Value
feed Rate	1:15	1:100	1:200	(mmhos)
50 ppm	0.5	3.33	6.66	0.45
100 ppm	1	6.66	13.33	0.80
200 ppm	2	13.33	26.66	1.75

Limit of solubility = 4.5 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.

SUGGESTED PPM FEEDING RATES Doggett's Professional recommends these feed rates for the following crops. Remember to also consider plant stage, pot size, leaching fraction and environmental conditions when applying suggested rates. The quality of your water source will also affect overall feed rates, frequency and other additions in order to achieve optimum growth.

	Continuous	Periodic
	Liquid Feed	(Every
	(CLF)	7-10 days)
Plugs	50-125	150-225
Bedding Plants	100-150	200-250
General Foliage	100-200	200-300
Garden/Landscape	50-100	150-350
Mums	250-300	350-400





### **DOGGETT'S PROFESSIONAL 17-18-19**

### **GREENHOUSE PEAT-BLEND SPECIAL**

100% Soluble for Continuous Liquid Feed Programs

This balanced N-P-K formulation is perfect for producing fast growing plants and for maintenance of finished plants.

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N) 17.00%	)
6.96% Ammoniacal Nitrogen	
10.04% Nitrate Nitrogen	
Available Phosphate(P <sub>2</sub> O <sub>5</sub> )18.00%	)
Soluble Potash (K <sub>2</sub> O)19.00%	)
Magnesium (Mg) 0.15%	
0.15% Water Soluble Magnesium (Mg)	
Sulfur (S)0.06%	)
0.06% Combined Sulfur(S)	
Boron (B)	,
Copper (Cu) 0.01%	,
0.01% Chelated Copper (Cu)	
Iron (Fe) 0.08%	0
0.08% Chelated Iron (Fe)	
Manganese (Mn) 0.04%	
0.04% Chelated Manganese (Mn)	
Molybdenum (Mo)	6
Zinc (Zn)0.04%	)
0.04% Chelated Zinc (Zn)	

#### **NUTRIENTS DERIVED FROM:**

Ammonium Nitrate, Monopotassium Phosphate, Potassium Nitrate, Sodium Nitrate, Magnesium Sulphate, Magnesium Nitrate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA.

Potential Acidity: 415 lbs. Calcium carbonate equivalent per ton.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### **MIXING INSTRUCTIONS**

Amount of dry fertilizer (oz.) to add to each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION						
Desired N	Inject	Injector Setting E.C.Value				
feed Rate	1:15	1:15   1:100   1:200   (r				
50 ppm	0.55	4.00	8.10	.34		
100 ppm	1.10	8.10	16.20	.68		
200 ppm	2.20	16.20	32.40	1.36		

Limit of solubility = 4.0 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag.

In solution, color will remain consistent.

#### SUGGESTED PPM FEEDING RATES

Doggett's Professional recommends these feed rates for the following crops. Remember to also consider plant stage, pot size, leaching fraction and environmental conditions when applying suggested rates. The quality of your water source will also affect overall feed rates, frequency and other additions in order to achieve optimum growth.

	Continuous Liquid Feed (CLF)	Periodic Every 7-10 Days
Plugs/Salt Sensitive	50-125	175-225
Woody Ornamentals	50-100	200-375
Bedding Plants	100-150	200-250
General Foliage	100-200	250-300
Cut Flowers	175-225	300-450
Garden/Landscape	200-300	400-750
Heavy Feeders	200-300	350-400
Light Feeders	75-150	200-250





### **DOGGETT'S PROFESSIONAL 21-5-20 GENERAL PURPOSE GREENHOUSE FERTILIZER**

### 100% Soluble for Continuous Liquid Feed Programs

Doggett's Professional 21-5-20 is a slightly acid formulation for alkaline water situations.

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N) 21.00%
8.76% Ammoniacal Nitrogen
12.00% Nitrate Nitrogen
.24% Urea Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> )5.00%
Soluble Potash (K <sub>2</sub> O)20.00%
Magnesium (Mg)0.15%
0.15% Water Soluble Magnesium (Mg)
Sulfur (S)2.02%
2.02% Combined Sulfur(S)
Boron (B)
` ,
Boron (B)

#### **NUTRIENTS DERIVED FROM:**

Ammonium Nitrate, Potassium Nitrate, Urea, Monopotassium Phosphate, Potassium Sulphate, Magnesium Sulphate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA.

Potential Acidity: 390 lbs. Calcium carbonate equivalent per ton.

Warning - Product contains molybdenum. Do not apply to crops that will be grazed by ruminant animals.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### MIXING INSTRUCTIONS

Amount of dry fertilizer (oz.) to add to each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION						
Desired N	Inject	Injector Setting E.C.Value				
feed Rate	1:15	1:100	(mmhos)			
50 ppm	0.52	3.51	6.90	.32		
100 ppm	1.10	6.90	13.80	.65		
200 ppm	2.20	13.80	27.60	1.29		

Limit of solubility = 4 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag.

In solution, color will remain consistent.

#### SUGGESTED PPM FEEDING RATES

Doggett's Professional recommends these feed rates for the following crops. Remember to also consider plant stage, pot size, leaching fraction and environmental conditions when applying suggested rates. The quality of your water source will also affect overall feed rates, frequency and other additions in order to achieve optimum growth.

	Continuous Liquid Feed (CLF)	Periodic Every 7-10 Days
Plugs/Salt Sensitive	50-125	175-225
Woody Ornamentals	50-100	200-375
Bedding Plants	100-150	200-250
General Foliage	100-200	250-300
Cut Flowers	175-225	300-450
Garden/Landscape	200-300	400-750
Heavy Feeders	200-300	350-400
Light Feeders	75-150	200-250





### DOGGETT'S PROFESSIONAL HYDROPONIC CLASSIC 5-11-26

### 100% Soluble for Continuous Liquid Feed Programs

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)5.00%
1.08% Ammoniacal Nitrogen
3.92% Nitrate Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> )11.00%
Soluble Potash (K <sub>2</sub> O)26.00%
Magnesium (Mg)3.00%
3.00% Water Soluble Magnesium
Sulfur (S)6.97%
6.97% Combined Sulfur(S)
Boron (B) 0.05%
Copper (Cu) 0.02%
0.02% Chelated Copper (Cu)
Iron (Fe)0.30%
0.30% Chelated Iron (Fe)
Manganese (Mn)0.05%
0.05% Chelated Manganese (Mn)
Molybdenum (Mo)0.01%
Zinc (Zn)0.02%
0.02̂% Ćhelated Zinc (Zn)

#### NUTRIENTS DERIVED FROM:

Potassium Nitrate, Ammonium Nitrate, Monopotassium Phosphate, Potassium Sulphate, Magnesium Sulphate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA.

Warning – Product contains molybdenum. Do not apply to crops that will be grazed by ruminant animals.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### MIXING INSTRUCTIONS

Amount of dry fertilizer (oz.) to add to each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION					
Desired N	Inject	or Setti	E.C.Value		
feed Rate	1:15	1:100	(mmhos)		
50 ppm	2.5	20.0	40.0	.15	
100 ppm	5.0	40.0	-	.30	
200 ppm	10.0	-	-	.60	

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.

Potential Basicity: 215 lbs. Calcium carbonate equivalent per ton. Limit of solubility = 3 lbs. per gallon

Follow these steps for a precipitate free solution.

1. Dissolve 130 ounces (8lbs. 2 oz.) of DOGGETT'S HYDROPONIC CLASSIC 5-11-26 in 1,000 gallons of final feed solution. You will obtain the following elemental PPM concentrations:

ELEMENT	N	Р	K	Mg	SO <sub>4</sub>	Fe	Mn	Zn	Cu	В	Мо
PPM	50	52	215	63	246	3	.50	.15	.15	.50	.10

- Test to determine if additional Epsom salts required before proceeding.
   For most crops 50-75 PPM magnesium is desirable in the final solution. If additional magnesium level is required, dissolve Epsom salts into tank. One ounce of Epsom salts dissolved in 1000 gallons provides 7.5 PPM magnesium.
- **3.** Dissolve 86 ounces of Calcium Nitrate into the above 1,000 gallon solution to obtain a total nutrient concentration of 150 PPM Nitrogen and 116 PPM Calcium.





### **DOGGETT'S PROFESSIONAL GENERAL PURPOSE HYDROPONIC 12-8-16**

### 100% Soluble for Continuous Liquid Feed Programs

Doggett's General Purpose Hydroponic is an all-in-one product that contains the needed calcium without typical fallout issues.

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N) 12.00%
4.50% Ammoniacal Nitrogen
7.50 % Nitrate Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> )8.00%
Soluble Potash (K <sub>2</sub> O)16.00%
Calcium (Ca)3.00%
Magnesium (Mg)1.50%
1.50% Water Soluble Magnesium
Sulfur (S)5.42%
5.42% Combined Sulfur(S)
Boron (B)0.05%
Copper (Cu)0.02%
0.02% Chelated Copper (Cu)
Iron (Fe)0.40%
0.40% Chelated Iron (Fe)
Manganese (Mn)0.05%
0.05% Chelated Manganese (Mn)
Molybdenum (Mo)0.01%
Zinc (Zn)0.02%
0.02% Chelated Zinc (Zn)

#### **NUTRIENTS DERIVED FROM:**

Ammonium Nitrate, Calcium Nitrate, Magnesium Nitrate, Potassium Sulphate, Phosphoric Acid, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA and Zinc EDTA.

Potential Acidity: 50 lbs. Calcium carbonate equivalent per ton.

Warning – Product contains molybdenum. Do not apply to crops that will be grazed by ruminant animals.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### MIXING INSTRUCTIONS

Amount of dry fertilizer (oz.) to add to each gallon of water to make a concentrated solution. Check injector setting before use.

NITROGEN PARTS PER MILLION					
Desired N	Inject	Injector Setting E.C.Value			
feed Rate	1:15 1:100 1:200 (mmhos)				
50 ppm	.88	5.5	11.0	.44	
100 ppm	1.75	10.5	21.0	.90	
200 ppm	3.5	21.0	42.0	1.80	

Limit of solubility = 3 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.





### **DOGGETT'S PROFESSIONAL**

### **GENERAL PURPOSE LANDSCAPE 20-20-20**

### Stabilized Nitrogen Technology for Extended Release

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)20.00%
.85% Ammoniacal Nitrogen
19.15% Urea Nitrogen
Available Phosphate (P2O5) . 20.00%
Soluble Potash (K2O) 20.00%
Magnesium (Mg)0.05%
0.05% Water Soluble Magnesium
Sulfur (S)3.44%
3.44% Combined Sulfur(S)
Boron (B)0.01%
Copper (Cu) 0.05%
0.05% Chelated Copper (Cu)
Iron (Fe)0.10%
0.10% Chelated Iron (Fe)
Manganese (Mn)0.05%
0.05% Chelated Manganese (Mn)
Zinc (Zn)0.05%
0.05% Chelated Zinc (Zn)

Non-plant food ingredients: Hydrexx 1% by Total Wt.

#### **NUTRIENTS DERIVED FROM:**

Urea, Monopotassium Phosphate, Potassium Sulphate, Monoammonium Phosphate, Magnesium Sulphate, Boric Acid, Iron EDTA, Copper EDTA, Manganese EDTA and Zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

#### Limit of solubility = 5.0 lbs. per gallon

Potential Acidity: 555 lbs. Calcium carbonate equivalent per ton

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution.

SUGGESTED FEEDING CONCENTRATIONS NITROGEN PARTS PER MILLION					
PPM	PPM OZ / 10 gal OZ / 100 gal				
50 ppm	.35 3.5				
100 ppm	ppm .70 7.0				
200 ppm	ppm 1.4 14.0				
300 ppm 2.8 28.0					

MIX RATES PER 1,000 SQ. FT.					
Desired lbs. of Nitrogen 1/8 1/4 1/2 1					
Ounces of Fertilizer	10	20	40	80	

Apply Fertilizer in 2-6 gallons of water per 1,000 sq. ft.

GENERAL MIX RATES				
20-20-20 Fertilizer WATER AREA TREATED				
1 level Tablespoon	1 gallon	4 sq. ft.		
5 level Tablespoons	5 gallons	20 sq. ft.		
8 ounces	25 gallons	100 sq. ft.		
2 pounds	100 gallons	400 sq. ft.		

DOGGETT recommends these feed rates for the following crops. Remember to also consider plant stage, pot size, leaching fraction and environmental conditions when applying suggested rates. The quality of your water source will also affect overall feed rates, frequency and other additions in order to achieve optimum growth.

CROP	Continuous Liquid Feed (CLF)
Plugs/Salt Sensitive	50-125
Woody Ornamentals	50-100
Bedding Plants	100-150
General Foliage	100-200
Cut Flowers	175-225
Garden/Landscape	200-300
Heavy Feeders	200-300
Light Feeders	75-150



**NET WT. 25 LBS** 

The manufacturer disclaims all responsibility for damage to plants and equipment through the use of this product whether used in accordance with directions or not.



### DOGGETT'S PROFESSIONAL **BLOOM LANDSCAPE SPECIAL 15-30-15**

Stabilized Nitrogen Technology for Extended Release

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)15.00%
5.86% Ammoniacal Nitrogen
0.06% Nitrate Nitrogen
9.08% Urea Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> ) 30.00%
Soluble Potash (K <sub>2</sub> O) 15.00%
Magnesium (Mg) 0.05%
0.05% Water Soluble Magnesium
Sulfur (S) 5.14%
5.14% Combined Sulfur(S)
Boron (B)0.02%
• •
Boron (B)0.02%
Boron (B)

Non-plant food ingredients: Hydrexx .5% by Total Wt.

#### **NUTRIENTS DERIVED FROM:**

Urea, Magnesium Nitrate, Monoammonium Phosphate, Potassium Sulphate, Monopotassium Phosphate, Boric Acid, Sodium Molybdate, Copper EDTA, Iron **EDTA, Manganese EDTA, Zinc EDTA.** 

Potential Acidity: 668 lbs. Calcium carbonate equivalent per ton.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

#### SUGGESTED FEEDING CONCENTRATIONS

Remember to also consider plant stage, pot size, leaching fraction and environmental conditions when applying suggested rates. The quality of your water source will also affect overall feed rates, frequency and other additions in order to achieve optimum growth.

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution.

NITROGEN PARTS PER MILLION					
Desired N	Injector Setting			E.C.Value	
feed Rate	1:15 1:100 1:200			(mmhos)	
50 ppm	.75	5.0	10.0	.27	
100 ppm	1.50	10.0	20.0	.54	
200 ppm	3.00	20.0	40.0	1.8	

Limit of solubility = 3 lbs. per gallon

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.

MIX RATES PER 1,000 SQ. FT.				
Desired lbs. of Phosphorous	1/8	1/4	1/2	1
Ounces of Fertilizer	6	13	26	52

Apply Fertilizer in 2-6 gallons of water per 1,000 sq. ft.

GENERAL MIX RATES				
BLOOM 15-30-15	WATER	AREA TREATED		
1 level Tablespoon	1 gallon	4 sq. ft.		
5 level Tablespoons	5 gallons	20 sq. ft.		
8 ounces	25 gallons	100 sq. ft.		
2 pounds	100 gallons	400 sq. ft.		





### DOGGETT'S PROFESSIONAL HIGH K LANDSCAPE SPECIAL 20-5-30

### Stabilized Nitrogen Technology for Extended Release

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)20.00%	
5.3% Nitrate Nitrogen	
14.7% Urea Nitrogen	
Available Phosphate(P <sub>2</sub> O <sub>5</sub> )5.00%	
Soluble Potash (K <sub>2</sub> O)30.00%	
Magnesium (Mg)0.05%	
0.05% Water Soluble Magnesium	
Sulfur (S)2.77%	
2.77% Combined Sulfur(S)	
Boron (B) 0.02%	
Copper (Cu)	
0.05% Chelated Copper (Cu)	
Iron (Fe)0.10%	
0.10% Chelated Iron (Fe)	
Manganese (Mn)0.05%	
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	6
Zinc (Zn)0.05%	
0.05% Ćhelated Zinc (Zn)	

Non-plant food ingredients: Hydrexx .8% by Total Wt.

#### **NUTRIENTS DERIVED FROM:**

Potassium Nitrate, Urea, Magnesium Nitrate, Potassium Sulphate, Monopotassium Phosphate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution.

SUGGESTED FEEDING CONCENTRATIONS NITROGEN PARTS PER MILLION				
PPM OZ / 10 gal OZ / 100 gal				
200 ppm	1.2 12			
300 ppm 2.0 20				

MIX RATES PER 1,000 SQ. FT.				
Desired lbs. of Nitrogen	1/8	1/4	1/2	1
Ounces of Fertilizer	10	20	40	80

Apply Fertilizer in 2-6 gallons of water per 1,000 sq. ft.

<b>GENERAL MIX RATES</b>				
High K 20-5-30 WATER AREA TREATEI				
1 level Tablespoon	4 sq. ft.			
5 level Tablespoons	20 sq. ft.			
8 ounces	25 gallons	100 sq. ft.		
2 pounds	100 gallons	400 sq. ft.		



### **DOGGETT'S PROFESSIONAL SPRAY-FOL LANDSCAPE SPECIAL 30-5-10**

Spray-Fol should be applied with every spray application during the growing season. Spray-Fol will improve the health and appearance of trees and shrubs by supplying plant nutrients that can be absorbed through the foliage when it is applied alone or in conjunction with your regular spray.

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N) 30.00%
4% Ammoniacal Nitrogen
26% Urea Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> ) 5.00%
Soluble Potash (K <sub>2</sub> O)10.00%
Magnesium (Mg)0.05%
0.05% Water Soluble Magnesium
Sulfur (S)6.65%
6.65% Combined Sulfur(S)
Boron (B)0.02%
Copper (Cu)0.05%
0.05% Chelated Copper (Cu)
Iron (Fe)0.10%
0.10% Chelated Iron (Fe)
Manganese (Mn)0.05%
0.05% Chelated Manganese (Mn)
Molybdenum (Mo)0.001%
Zinc (Zn)0.05%
0.05% Chelated Zinc (Zn)

#### **NUTRIENTS DERIVED FROM:**

Urea, Ammonium Sulphate, Potassium Sulphate, Monoammonium Phosphate, Magnesium Sulphate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA and Zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution.

SUGGESTED FEEDING CONCENTRATIONS NITROGEN PARTS PER MILLION			
PPM OZ / 10 gal OZ / 100 gal			
100 ppm	ppm 0.5 5		
200 ppm 1.0 10			

GENERAL MIX RATES				
SPRAY FOL 30-5-10 WATER AREA TREATED				
½ pound	25 gallons	100 sq. ft.		
2 pounds	100 gallons	400 sq. ft.		
4 pounds	200 gallons	800 sq. ft.		
12 pounds	600 gallons	2,400 sq. ft.		

Potential Acidity: 400 lbs. Calcium carbonate equivalent per ton.





### DOGGETT'S PROFESSIONAL TURF GENERAL PURPOSE 20-20-20

### Stabilized Nitrogen Technology for Extended Release

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)20.00%			
.85% Ammoniacal Nitrogen			
19.15% Urea Nitrogen			
Available Phosphate(P <sub>2</sub> O <sub>5</sub> )20.00%			
<b>Soluble Potash (K<sub>2</sub>O)20.00%</b>			
Magnesium (Mg)0.05%			
0.05% Water Soluble Magnesium			
Sulfur (S)3.44%			
3.44% Combined Sulfur(S)			
Boron (B)0.01%			
Copper (Cu)0.05%			
0.05% Chelated Copper (Cu)			
Iron (Fe)0.10%			
0.10% Chelated Iron (Fe)			
Manganese (Mn)0.05%			
0.05% Chelated Manganese (Mn)			
Zinc (Zn)0.05%			
0.05% Chelated Zinc (Zn)			

Non-plant food ingredients: Hydrexx 1.0% by Total Wt.

#### **NUTRIENTS DERIVED FROM:**

Urea, Monopotassium Phosphate, Potassium Sulphate, Monoammonium Phosphate, Magnesium Sulphate, Boric Acid, Iron EDTA, Copper EDTA, Manganese EDTA and Zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution. Check injector setting before use.

NITROGEN PARTS PER MILLION			
PPM	OZ / 10 gal	OZ / 100 gal	
100 ppm	1	10	
200 ppm	2	20	
300 ppm	3	30	

TURF RATES PER LB. OF NITROGEN				
Desired lbs. of Nitrogen per 1,000 sq. ft.				
Ounces of Fertilizer	10	20	40	80

Apply Fertilizer in 2-6 gallons of water per 1,000 sq. ft.

#### **GENERAL MIXING RATES**

GENERAL PURPOSE 20-20-20	WATER	AREA TREATED
1 level Tablespoon	1 gallon	4 sq. ft.
5 level Tablespoons	5 gallons	20 sq. ft.
½ pound	25 gallons	100 sq. ft.
2 pounds	100 gallons	400 sq. ft.

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.





### DOGGETT'S PROFESSIONAL TURF HIGH IRON 24-0-8

### Stabilized Nitrogen Technology for Extended Release

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)24.00%
.23% Ammoniacal Nitrogen
23.77% Urea Nitrogen
Soluble Potash (K2O) 8.00%
Magnesium (Mg)1.50%
1.50% Water Soluble Magnesium
Sulfur (S) 5.00%
5.00% Combined Sulfur(S)
Boron (B) 0.02%
Copper (Cu) 0.05%
0.05% Chelated Copper (Cu)
Iron (Fe)2.00%
2.00% Chelated Iron (Fe)
Manganese (Mn) 0.05%
0.05% Chelated Manganese (Mn)
Zinc (Zn) 0.05%
0.05% Chelated Zinc (Zn)

Non-plant food ingredients: Hydrexx 1.3% by Total Wt.

#### **NUTRIENTS DERIVED FROM:**

Urea, Ammonium Sulphate, Potassium Sulphate, Magnesium Sulphate, Boric Acid, Copper EDTA, Iron EDTA, Manganese EDTA, Zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution.

NITROGEN PARTS PER MILLION			
PPM OZ / 10 gal OZ / 100 gal			
100 ppm	1	10	
200 ppm	2	20	

#### TURF RATES PER LB. OF NITROGEN

Desired Pounds of	Fertilizer	Pounds
Nitrogen per	required	required per
1,000 sq. ft	in ounces	Acre
1/10	5.71	15.55
1/8	7.14	19.44
1/4	14.29	38.9
1/2	28.57	77.78
1	67.14	155.56

Apply Fertilizer in 2-6 gallons of water per 1,000 sq. ft.

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.





### DOGGETT'S PROFESSIONAL TURF BENT SPECIAL 27-7-17

### Stabilized Nitrogen Technology for Extended Release

#### **GUARANTEED ANALYSIS**

Total Nitrogen (N)27.00% 2.38% Ammoniacal Nitrogen
4.00% Nitrate Nitrogen
20.62% Urea Nitrogen
Available Phosphate(P <sub>2</sub> O <sub>5</sub> )7.00%
Soluble Potash (K <sub>2</sub> O)17.00%
Magnesium (Mg)0.05%
0.05% Water Soluble Magnesium
Sulfur (S)2.38%
2.38% Combined Sulfur(S)
Boron (B)0.01%
Copper (Cu)0.05%
0.05% Chelated Copper (Cu)
Iron (Fe)0.10%
0.10% Chelated Iron (Fe)
Manganese (Mn)0.05%
0.05% Chelated Manganese (Mn)
Molybdenum (Mo)0.001%
Zinc (Zn)0.05%
0.05% Chelated Zinc (Zn)

Non-plant food ingredients: Hydrexx 1.12% by Total Wt.

#### **NUTRIENTS DERIVED FROM:**

Urea, Ammonium Nitrate, Potassium Nitrate, Monopotassium Phosphate, Potassium Sulphate, Magnesium Sulphate, Boric Acid, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution.

NITROGEN PARTS PER MILLION			
PPM	OZ / 10 gal OZ / 100 gal		
100 ppm	.75	7.5	
200 ppm	1.5	15	
300 ppm	3.0	30	

#### TURF RATES PER LB. OF NITROGEN

Desired Pounds of	Fertilizer	Pounds		
Nitrogen per	required	required per		
1,000 sq. ft	in ounces	Acre		
1/10	5.71	15.55		
1/8	7.14	19.44		
1/4	14.29	38.9		
1/2	28.57	77.78		
1	67.14	155.56		

Apply Fertilizer in 2-6 gallons of water per 1,000 sq. ft.

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.





### **DOGGETT'S PROFESSIONAL TURF HYDRO STARTER 16-32-16**

### Stabilized Nitrogen Technology for Extended Release

#### **GUARANTEED ANALYSIS**

Non-plant food ingredients: Hydrexx 0.65% by Total Wt.

#### **NUTRIENTS DERIVED FROM:**

Urea, Monoammonium Phosphate, Monopotassium Phosphate, Potassium Sulphate, Magnesium Sulphate, Boric Acid, Iron EDTA, Copper EDTA, Manganese EDTA and Zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

#### Important Notes

E.C. value is the best method to determine fertilizer strength. Fertilizer appearance may vary in color due to variation in raw material size and tracer dye distribution upon the particles in the bag. In solution, color will remain consistent.

**NEWLY SEEDED TURF Apply 1.3 lbs.** of 16-32-16 per 1,000 sq. ft. every week to 10 days until new seeds are established.

#### TANK MIXING RATES FOR PPM

Amount of dry fertilizer (oz.) to add to tank to make a ready-to-use solution. Check injector setting before use.

NITROGEN PARTS PER MILLION							
PPM OZ / 10 gal OZ / 100 gal							
100 ppm	0.5	5					
200 ppm	1.0	10					
300 ppm	2.0	20					

#### **GENERAL MIXING RATES**

HYDRO STARTER 16-32-16	WATER	AREA TREATED		
1 level Tablespoon	1 gallon	4 sq. ft.		
5 level Tablespoons	5 gallons	20 sq. ft.		
8 ounces	25 gallons	100 sq. ft.		
2 pounds	100 gallons	400 sq. ft.		

#### TURF RATES PER LB. OF PHOSPHATE

Desired Pounds of Phosphate per 1,000 sq. ft	Fertilizer required in ounces			
1/16	3			
1/8	6			
1/4	13			
1/2	25			
3/4	38			
1#	50			

Apply Fertilizer in 2-6 gallons of water per 1,000 sq. ft.





# DOGGETT'S PROFESSIONAL TURF CHELATED MICRO MIX

#### **GUARANTEED ANALYSIS**

Magnesium (Mg) 3.25%
3.25% Water Soluble Magnesium (Mg)
Sulfur (S) 4.28%
4.28% Combined Sulfur(S)
Boron (B) 0.02%
Copper (Cu) 0.05%
0.05% Chelated Copper (Cu)
Iron (Fe) 6.00%
6.00% Chelated Iron (Fe)
Manganese (Mn) 2.50%
2.50% Chelated Manganese (Mn)
Zinc (Zn) 0.15%
0.15% Chelated Zinc (Zn)

#### **NUTRIENTS DERIVED FROM:**

Magnesium Sulphate, Boric Acid, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA

Information regarding the contents and levels of metals in this product is available on the internet at http://aapfco.org/ metals.html

For best results, use warm water to dissolve product. Doggett's fertilizers are made with 100% soluble raw materials that will form a true solution. Some raw materials are slower to dissolve than others. Keep stock tank covered to reduce light and debris inputs.

DOGGETT'S TURF CHELATED MICRO MIX is formulated to be used as a nutrient source supplement on professionally maintained golf and sports turf, lawn and landscapes. It can enhance color, help promote growth, or correct many nutrient deficiency symptoms.

#### **DIRECTIONS FOR USE**

**TURF CHELATED MICRO MIX** can be applied as foliar spray, fertigation injection, or drip irrigation.

#### **TURF APPLICATION RATES**

Apply DOGGETT'S MICRO MIX at 2.5 to 5.0 lbs./acre bi-weekly. For smaller turf area applications apply 1-2 ounces/1,000 sq. ft. bi-weekly.

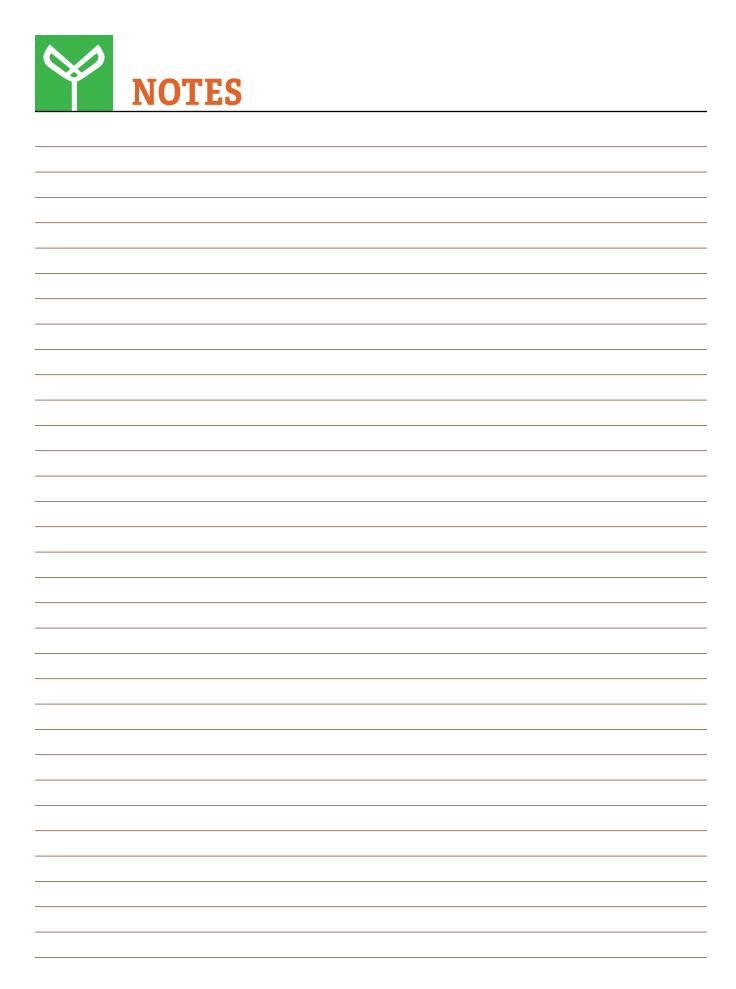
Rate can be increased or decreased according to the frequency of application. Apply only to actively growing turf.

#### LANDSCAPE PLANT RATES

Apply DOGGETT'S MICRO MIX at 0.5-1.0 ounce per 1,000 sq. ft. of bed area for enhanced color, plant growth, or remedial action for nutrient deficiency symptoms.



**AVAILABLE IN 5 LBS OR 25 LBS. NET WT.** 



### PPM THROUGH AN INJECTOR

#### **OUNCES OF FERTILIZER REQUIRED PER GALLON OF WATER TO ACHIEVE 100 PPM**

The column on the left will refer to the % of the fertilizer element and the bar on top will be the ratio of your injector. Where these two meet is the ounces of fertilizer you need per gallon of concentrate to achieve 100 PPM. To achieve a different PPM, multiply the desired PPM by the 100 PPM result. For example: to achieve 200 PPM multiply your 100 PPM result by 2.

% Fertilizer										
Element	1:15	1:50	1:100	1:150	1:200	1:250	1:300	1:350	1:400	1:500
3%	6.66	22.21	44.43	66.64	88.85	111.07	133.28	155.49	177.71	0.05
4%	5	16.66	33.32	49.98	66.64	83.3	99.96	116.62	133.28	0.07
5%	4	13.33	26.66	39.98	53.31	66.64	79.97	93.3	106.62	0.08
6%	3.33	11.11	22.21	33.32	44.43	55.53	66.64	77.75	88.85	0.1
7%	2.86	9.52	19.04	28.56	38.08	47.6	57.12	66.64	76.16	0.12
8%	2.5	8.33	16.66	24.99	33.32	41.65	49.98	58.31	66.64	0.13
9%	2.22	7.4	14.81	22.21	29.62	37.02	44.43	51.83	59.24	0.15
10%	2	6.66	13.33	19.99	26.66	33.32	39.98	46.65	53.31	0.17
11%	1.82	6.06	12.12	18.17	24.23	30.29	36.35	42.41	48.47	0.18
12%	1.67	5.55	11.11	16.66	22.21	27.77	33.32	38.87	44.43	0.2
13%	1.54	5.13	10.25	15.38	20.5	25.63	30.76	35.88	41.01	0.22
14%	1.43	4.76	9.52	14.28	19.04	23.8	28.56	33.32	38.08	0.23
15%	1.33	4.44	8.89	13.33	17.77	22.21	26.66	31.1	35.54	0.25
16%	1.25	4.17	8.33	12.5	16.66	20.83	24.99	29.16	33.32	0.27
17%	1.18	3.92	7.84	11.76	15.68	19.6	23.52	27.44	31.36	0.28
18%	1.11	3.7	7.4	11.11	14.81	18.51	22.21	25.92	29.62	0.3
19%	1.05	3.51	7.01	10.52	14.03	17.54	21.04	24.55	28.06	0.32
20%	1	3.33	6.66	10	13.33	16.66	19.99	23.32	26.66	0.33
21%	0.95	3.17	6.35	9.52	12.69	15.87	19.04	22.21	25.39	0.35
22%	0.91	3.03	6.06	9.09	12.12	15.15	18.17	21.2	24.23	0.37
23%	0.87	2.9	5.79	8.69	11.59	14.49	17.38	20.28	23.18	0.38
24%	0.83	2.78	5.55	8.33	11.11	13.88	16.66	19.44	22.21	0.4
25%	0.8	2.67	5.33	8	10.66	13.33	15.99	18.66	21.32	0.42
26%	0.77	2.56	5.13	7.69	10.25	12.82	15.38	17.94	20.5	0.43
27%	0.74	2.47	4.94	7.4	9.87	12.34	14.81	17.28	19.75	0.45
28%	0.71	2.38	4.76	7.14	9.52	11.9	14.28	16.66	19.04	0.47
29%	0.69	2.3	4.6	6.89	9.19	11.49	13.79	16.09	18.38	0.48
30%	0.67	2.22	4.44	6.66	8.89	11.11	13.33	15.55	17.77	0.5

For dosing calculators, please use the following link https://www.dosatronusa.com/resources



### **TANK MIXING FOR DIRECT APPLICATION**

The chart reflects the amount of fertilizer to add per gallon of water. Use this amount and multiply it by the number of gallons your tank holds or the number of gallons you are going to use. For example: To use 20-20-20 in a 10 gallon sprayer at a desired rate of 200 Parts Per Million Nitrogen, read across the chart at the 20% element to the 200 PPM column. It shows it will take 1.33 ounces of fertilizer times 10 gallons which equals 13.3 ounces of 20-20-20.

%	DESIRED FEEDING RATE IN PARTS PER MILLION									
Fertilizer Element	50	100	150	200	250	300	350	400	450	500
1	0.670	1.333	2.000	2.667	3.333	4.000	4.667	5.333	6.000	6.667
2	0.333	0.667	1.000	1.333	1.667	2.000	2.333	2.667	3.000	3.333
3	0.222	0.444	0.667	0.889	1.111	1.333	1.556	1.778	2.000	2.222
4	0.167	0.333	0.500	0.667	0.833	1.000	1.167	1.333	1.500	1.667
5	0.133	0.267	0.400	0.533	0.667	0.800	0.933	1.067	1.200	1.333
6	0.111	0.222	0.333	0.444	0.556	0.667	0.778	0.889	1.000	1.111
7	0.095	0.190	0.286	0.381	0.476	0.571	0.667	0.762	0.857	0.952
8	0.083	0.167	0.250	0.333	0.417	0.500	0.583	0.667	0.750	0.833
9	0.074	0.148	0.222	0.296	0.370	0.444	0.519	0.593	0.667	0.741
10	0.067	0.133	0.200	0.267	0.333	0.400	0.467	0.533	0.600	0.667
11	0.061	0.121	0.182	0.242	0.303	0.364	0.424	0.485	0.545	0.606
12	0.056	0.111	0.167	0.222	0.278	0.333	0.389	0.444	0.500	0.556
13	0.051	0.103	0.154	0.205	0.256	0.308	0.359	0.410	0.462	0.513
14	0.048	0.095	0.143	0.190	0.238	0.286	0.333	0.381	0.429	0.476
15	0.044	0.089	0.133	0.178	0.222	0.267	0.311	0.356	0.400	0.444
16	0.042	0.083	0.125	0.167	0.208	0.250	0.292	0.333	0.375	0.417
17	0.039	0.078	0.118	0.157	0.196	0.235	0.275	0.314	0.353	0.392
18	0.037	0.074	0.111	0.148	0.185	0.222	0.259	0.296	0.333	0.370
19	0.035	0.070	0.105	0.140	0.175	0.211	0.246	0.281	0.316	0.351
20	0.033	0.067	0.100	0.133	0.167	0.200	0.233	0.267	0.300	0.333
21	0.032	0.063	0.095	0.127	0.159	0.190	0.222	0.254	0.286	0.317
22	0.030	0.061	0.091	0.121	0.152	0.182	0.212	0.242	0.273	0.303
23	0.029	0.058	0.087	0.116	0.145	0.174	0.203	0.232	0.261	0.290
24	0.028	0.056	0.083	0.111	0.139	0.167	0.194	0.222	0.250	0.278
25	0.027	0.053	0.080	0.107	0.133	0.160	0.187	0.213	0.240	0.267
26	0.026	0.051	0.077	0.103	0.128	0.154	0.179	0.205	0.231	0.256
27	0.025	0.049	0.074	0.099	0.123	0.148	0.173	0.198	0.222	0.247
28	0.024	0.048	0.071	0.095	0.119	0.143	0.167	0.190	0.214	0.238
29	0.023	0.046	0.069	0.092	0.115	0.138	0.161	0.184	0.207	0.230
30	0.022	0.044	0.067	0.089	0.111	0.133	0.156	0.178	0.200	0.222
31	0.022	0.043	0.065	0.086	0.108	0.129	0.151	0.172	0.194	0.215
32	0.021	0.042	0.062	0.083	0.104	0.125	0.146	0.167	0.187	0.208
33 34	0.020	0.040	0.061	0.081	0.101	0.121	0.141	0.162	0.182	0.202
35	0.020 0.019	0.039 0.038	0.059 0.057	0.078 0.076	0.098 0.095	0.118	0.137	0.157	0.176	0.196
36	0.019	0.038	0.057	0.076	0.095	0.114 0.111	0.133 0.130	0.152 0.148	0.171 0.167	0.190 0.185
37	0.019	0.037	0.056	0.074	0.093	0.111	0.130	0.146	0.167	0.180
38	0.018	0.035	0.054	0.072	0.090	0.108	0.120	0.144	0.162	0.180
30	0.016	0.035	0.053	0.070	0.000	0.105	0.123	0.140	0.136	0.175

