

**Bulldog Water Soluble Fertilizer**

# 20-20-20

## Multi-Purpose Plus

**PRODUCT DESCRIPTION:**

High analysis formula for use on turf and landscape applications and a wide variety of field and vegetable crops. Can be used for both soil and foliar feeding.

**GUARANTEED ANALYSIS:**

Total Nitrogen (N) .....	20%
3.5% Ammoniacal Nitrogen	
5.5% Nitrate Nitrogen	
11.0% Urea Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	20%
Soluble Potash (K <sub>2</sub> O) .....	20%
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)	

**DERIVED FROM:**

Potassium Nitrate, Urea, Ammonium Phosphate, Mono Potassium Phosphate, Iron EDDHA, Iron EDTA, Manganese EDTA, Copper EDTA, Zinc EDTA, Boric Acid, Sodium Molybdate. F1367.

Chlorine (Cl), Maximum ) ..... 0.50%

**POTENTIAL ACIDITY:** 580 lbs calcium carbonate equivalent per ton.

**SOLUBILITY (max.):** 3 lbs per gallon. Hot water and agitation improve solubility.

**USE SUGGESTIONS:**

**General Use:** Spray 5 to 10 lbs per acre as a foliar application to supplement nutrients available from fertilizers applied to soil.

**Aerial Application:** Can be mixed at rate of 1 pound per gallon of water per acre.

**Backpack Sprayer:** 1 TBSP per gallon.

**Mixing:** Add Bulldog to mix or spray tank when it is about half full then continue to fill.

**Caution:** Do not apply to drought stressed plants or during hot, high light conditions or when plants are wilting. Do not use with highly alkaline sprays, dormant oils, dinitro compounds, or lime-sulfur mixtures.

**Row Crops: Peanuts, Field Corn, Soybeans, Cotton, Sweet Potatoes, Beets.** Use 5 to 10 lbs per acre. One to five applications depending on crop and season.

**Cotton:** Use 10 - 15 lbs per acre applied at one week intervals after first bloom.

**Fruit Trees (Apples, Pears, Plums, Nectarines, Apricots, Cherries, Citrus:** Use 2 lbs per 100 gallons of water when applying in dilute sprays or 5 to 10 lbs per acre when applying with concentrate sprayers. Apply early in the growing season and whenever supplemental feeding is required to improve fruit or nut set, and tree growth. Make 3 to 5 applications during season, but avoid late season sprays if fruit color or maturity is delayed by nitrogen application.

**Tobacco:** For supplemental fertilization, especially during periods of high leaching from heavy rainfall, apply as a foliar spray at rate of 5 to 10 lbs per acre every 10-14 days depending on growth desired.

**Tomatoes, Peppers, Melons, Squash, Broccoli, Cabbage, Kale and Spinach:** Use 5 to 10 lbs per acre. First apply when plants are 3 - 4 weeks old. Repeat at 7 to 10 day intervals. Use 3 to 6 applications per season depending on weather conditions.

**Transplanting:** For most crops dissolve 5 lbs in 100 gallons of water. Use 200 to 300 gallons per acre (a cup of solution per plant).

**Vegetable Seedlings:** For most mature seedlings with expanded true leaves (Stage 3) and bedding plants, feed at 100 to 200 ppm N with constant liquid feeding.

**Turf Application:**

Pulse Feeding: Use 1/8 to 1/4 lb. of nitrogen (N) per 1000 square feet every week to ten days or as needed. Rate and amount of water needed will depend on soil moisture levels, turf species and weather conditions. Avoid spraying during hot, bright light conditions or when turf is drought stressed.

Lbs N / 1000 Ft <sup>2</sup>	1/8	1/4	1/2	1
Ounces / 1000 Ft <sup>2</sup>	10	20	40	80

- Turf and Fairways - Apply once a week for maximum growth or once a month to maintain fertility.
- Greens and Tees - Apply once a week.

Sprayer Application:

- Sprayer application is normally 1 pound of product in 5 to 20 gallons of water.
- Concentrated Sprayer Solution: This formula may be applied in a concentrated solution of 1 pound of product to 2 or 3 gallons of water, with thorough irrigation immediately after application to rinse off leaf surface.

Fertigation: Injection of a fertilizer solution through the irrigation system which will provide nutrients during the irrigation cycle. Use maximum of two pounds of product per gallon of stock solution. The recommended feeding rate is 200 to 400 ppm (N) nitrogen, depending on desired response. Adjust nitrogen ppm levels accordingly.

ppm N	100	200	300	400
EC (mS/cm)	0.40	0.80	1.20	1.60

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