



**Palm Nutrition**

Formulated for palms and landscape trees, PALM-jet provides Nitrogen, Potassium, Iron, Manganese, and other essential nutrition for green foliage. 100 milliliters of PALM-jet supplies 2 grams of Manganese to help alleviate symptoms of Frizzle Top, a Manganese deficiency in new fronds.

NPK GRADE: 1 – 0 – 3

**Guaranteed Analysis:**

Total Nitrogen (N).....	1.0%
1.0% Urea Nitrogen (N)	
Soluble Potash (K <sub>2</sub> O).....	3.0%
Sulfur.....	1.5%
1.5% Combined Sulfur (S)	
Boron (B).....	0.2%
Iron (Fe).....	2.1%
2.1% Water Soluble Iron (Fe)	
Manganese (Mn).....	2.2%
2.2% Water Soluble Manganese (Mn)	
Zinc (Zn).....	0.2%
0.2% Water Soluble Zinc (Zn)	

Derived from: Urea, Potassium Hydroxide, Boric Acid, Ferrous Sulfate, Manganese Sulfate, Zinc Sulfate

**WARNING:** This fertilizer contains boron, which may be injurious to certain crops. Contact your local county agent or field consultant for specific information.

**NET CONTENTS: 1 Gallon (3.785 Liters)**  
**NET WEIGHT: 10.8 Lbs.**



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**CAUTIONARY STATEMENTS**

- ✓ Do not inject palms more than three times annually
- ✓ Not recommended for newly planted trees
- ✓ Do not treat herbicide damaged trees
- ✓ Do not inject trees within two weeks of any other spray or soil chemical treatment
- ✓ **Do not inject trees during temperature extremes (<40F or ≥90F) or when those conditions are expected within the next 48 hours**
- ✓ Drought stressed trees may take longer to inject
- ✓ Water trees first if drought stressed to improve uptake

**NOTE:** This product is NOT a pesticide

**APPLICATION & USES**

Iron and manganese deficiencies are often associated with calcareous, arid or sandy soil conditions affecting seasonal growth in palms. Useful in palms and landscape trees where iron and manganese deficiencies are difficult to control by foliar or soil applications. Use to promote green foliage.

**Treatment Uses**

- Iron and Manganese Deficiencies
- Nutrient Deficiencies
- Leaf Yellowing
- Interveinal Chlorosis
- Alkaline Soils
- Sandy Soils
- Arid Soil Conditions

For optimum results, treat trees prior to new growth. Systemic activity occurs when Palm-jet moves upward into the crown where it is utilized for new frond growth. Treatments will aid in the development of green fronds. Older fronds are unlikely to recover from severe nutrient deficiencies.

**APPLICATION RATES**

**Spring and Fall Rates: Dilute Palm-jet with 1 – 3 volumes of water**  
**Canary Palms (*Phoenix canariensis*): use half the Spring and Fall Rates**

Plant Size Class	Canopy Spread	Trunk Height Range	PALM-jet Dose (mLs) / Palm	Water (mLs) / Palm
Small	6 - 12'	5 – 19'	25 – 50	25 – 150
Medium	12 - 24'	20 – 39'	50 – 75	50 – 225
Large	24 - 48'	40 – 100'	75 - 100	75 - 300

**Summer Rates: Dilute Palm-jet with 3 volumes of water**  
**Canary Palms (*Phoenix canariensis*): use half the Summer Rates**

Plant Size Class	Plant Size (Canopy Spread)	Trunk Height Range (ft.)	PALM-jet Dose (mLs) / Palm	Water (mLs) / Palm
Small	6 - 12'	5 – 19'	10 - 25	30 – 75
Medium	12 - 24'	20 – 39'	25 - 45	75 – 135
Large	24 - 48'	40 – 100'	45 – 60	135 - 180

**Use both canopy spread and trunk height to determine size class for application rate**

Mix only what you intend to use per tree, or use within 24 hours of mixing. Only 1 injection site is generally required.

## APPLICATION RATES (CONT.)

### Hardwood Tree Rates, including Live Oaks Spring and Fall Use: dilute with 1 – 3 volumes of water Summer Use: Dilute Palm-jet with 3 volumes of water

DBH"	Number of Injection Sites	mLs/injection site* (by micro-injection)	mLs PALM-jet dose/tree (by TREE I.V.)	mLs of water to add (1-3 volumes)
3 – 6"	3	8	24	24 - 72
7 – 9"	4	8	32	32 - 96
10 – 11"	5	8	40	40 - 120
12 – 13"	6	8	48	48 - 144
14 – 15"	7	8	56	56 - 168
16 – 17"	8	8	64	64 - 192
18 – 19"	9	8	72	72 - 216
20 – 21"	10	8	80	80 - 240
22 – 23"	11	8	88	88 - 264
24 – 25"	12	8	96	96 - 288

\*as formulated.

### GENERAL DIRECTIONS

PALM-jet is designed for use with Arborjet Tree Injection Systems. It may be used with other injection devices that meet the application and label requirements. Follow equipment manufacturer's directions for use.

Measure canopy spread, then estimate height of clear trunk to determine application rate in palms. Example 1: palms with 12-24' of spread and 20-39' height are in the medium sized tree class. Apply 50-75 mls Palm-jet in a spring or fall injection and 25-45 mls as the summer rate. Example 2: palms with 12-24' of spread but <20' is in a small tree size class. Use the 25-50 mls Palm-jet in a spring or fall injection and 10-25 mls as the summer rates. Summer rates are always diluted by 3 volumes of water.

Diameter at Breast Height is used for applications in hardwood trees, including Live Oak trees. If measuring circumference, divide by 3 to get DBH. Refer to the Hardwood Tree Rates Table for dosages to apply. When making injections in summer, dilute Palm-jet with 3 volumes of water. For example, to inject a 10" tree, mix 40 mLs of Palm-jet with 120 mls water. If using micro-injection, apply 24 mLs per injection site in 5 sites around the base of the tree.

### ARBORJET MICRO-INFUSION™ PROCEDURES

STOP!!! Read equipment training manuals before injecting trees.

#### Treating Palms

Inject into the trunk into lignified (hardened, woody) tissues typically within 2-3 ft. of the soil. Drill into the stem 4" deep using the 3/8" drill bit. Insert a #4 Arborplug™. Inject through the Arborplug. Only one injection site is needed.

#### Using the STINGER Tip for Palms

Use a 7/32" diameter drill bit. Push STINGER needle into hole and twist right for a snug fit; start application, and remove the STINGER needles upon completion. The STINGER Method requires no Arborplugs. Clean and disinfect needles between trees.

#### Using Arborplugs™ for Palms and Non-Palms

Use the 9/32" drill bit for the #3 Arborplug and the 3/8" diameter drill bit for the #4 Arborplug. Drill bits should be clean and sharp. Insert the Arborplug. Inject by Inserting the VIPER needle, start application, and remove the VIPER needle upon completion. The Arborplug will remain in the tree.

#### Use Arborplugs™ to Treat Resinous Conifers (e.g., Pine, Spruce)

Drill into conifers 1.5 – 2" deep. Insert an Arborplug so that the anchoring barbs are in the sapwood. The Arborplug should be countersunk the depth of the bark. Drill and inject into each site in turn. A long delay between drilling into the sapwood and injection may result in reduced uptake on account of resin flow. **Use Arborplugs™ or STINGER Tips to treat Hardwood Trees (e.g., Oak, Ash, Maple)**

Drill into hardwood trees 5/8 – 1.5" deep. Insert the Arborplug so that the anchoring barbs are in the sapwood. The Arborplug should be countersunk the depth of the bark.

### CLEAN-UP

**IMPORTANT!** It is critical to rinse the Arborjet Tree Injection System thoroughly after use. Use **CLEAN-jet** or warm soapy water; rinse clean with isopropyl alcohol. Residues left in the device may gum, clog or corrode the internal components.

### COMPATIBILITY

Palm-jet is intended to be used alone. Do not mix with or apply into trees with any other formulation, including pesticides.

### RESTRICTIONS

Keep away from children  
Keep away from heat and open flame

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal  
Keep from freezing  
Store in a cool, dry place

DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Dispose of empty bottles by triple rinsing and offering for recycling.

#### NOTICE OF WARRANTY

ARBORJET, Inc makes no warranty of fitness of this product for any other purpose, beyond its uses under normal conditions in keeping with the statements made on this label.



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Information regarding the contents and levels of metals in this product is available by calling 1-888-255-3924