



NITRO-30[®] SRN 30-0-0

WITH 85% SLOW RELEASE NITROGEN

- **Safe, Low Salt Index 2-4**
- **Environmentally Friendly - Reduced Leaching**
- **No Nitrates - Less Ground Applied N**

GUARANTEED ANALYSIS:

Total Nitrogen (N)30%
4.5% Urea Nitrogen
25.5% Slowly Available Nitrogen*

Sources: Low Biuret Urea, Methylene Urea.
25.5% Slowly Available Nitrogen from Methylene Urea.
F106

TECHNICAL DATA:

Weight per gallon (lbs.) 10.38
pH 10
Salt Index 2-4
Pounds N per gallon (0.37 Kg N/ L) 3.1
Gallons per Ton (2,000 lbs.) 192.7
pH 10
Salting out Temperature , °F 32

PRODUCT DESCRIPTION:

Nitro-30 liquid slow release nitrogen is a unique fertilizer technology that provides your crops with a steady, reliable and safe feed of nitrogen. As a foliar feed, it is absorbed into the leaf cuticle and reserved there. The nitrogen is steadily released and is absorbed through the stomatal openings as the plant requires it. This avoids unwanted rapid growth spurts. Studies show that Nitro-30 has reduced nitrogen leaching and volatilization by up to 75%, so that the amount of soil applied nitrogen can be reduced, while improving crop yield. Nitro-30 will provide up to a twelve week nitrogen release, saving you the time and labor of repeated fertilizer applications. Field studies in Europe and the US have confirmed that foliar (leaf) application of Nitro-30 quickly corrects nitrogen deficiencies and that nitrogen rates can be reduced to less than 1/2 of soil applied rates. Nitro-30 has the lowest salt index of all nitrogen fertilizers (salt index of 2), significantly reducing burn potential that often results from quick-release nitrogen, high salt index fertilizers. It can also be used as a chemical sticker to enhance pesticide uptake.

It can be applied to soil as banded, sidedress or injected through the irrigation system; sprinkler, drip or center pivot or by low volume aerial application as a concentrate with sufficient water to achieve adequate plant coverage.

MIXING PROCEDURES:

- Fill water spray tank with approximately 1/2 water.
- Begin mixing or circulation.
- Add desired amount of Nitro-30 .
- Add compatible micronutrients.

- **Corrects Nitrogen Deficiencies**
- **Source for Minor Element Induction**
- **Contains 85% Smart Nitrogen**

- Add Flowable materials and emulsifiables.
- Add water soluble fertilizers and / or soluble powders. (Pre-mix powders in water prior to adding to spray tank mix solution.)
- Finish filling spray tank with water to desired volume. Mix or circulate tank mix prior to spraying.
- Be sure to rinse out spray and nursery equipment after use.

AGRICULTURAL GENERAL DIRECTIONS:

Foliar: Nitro-30 can be used on all field crops, vegetables and permanent crops such as fruit and nut trees as a foliar spray application to correct nitrogen deficiencies, improve growth and crop yield. Nitro-30 can be applied as a ground spray. Always apply with enough water to obtain adequate plant coverage. It can be applied by aerial application as a concentrate with sufficient water to achieve adequate plant coverage.

Fertigation: Nitro-30 can also be applied to soil as a band, sidedress or injected through the irrigation system; sprinkler, drip or center pivot.

GREENHOUSE & NURSERY:

Nitro-30 is a high quality, concentrated slow release nitrogen solution. It has the lowest salt index of any nitrogen source at 2-4. It is ideal for both supplement feeding and constant feed of nursery stock for both foliar and root uptake. This clear liquid can be injected through fertigation, drip irrigation or overhead sprinkler systems.

For Supplemental Feeding: Use between applications of granular coated fertilizer to level off nutrients that are often not available or depleted because of adverse weather conditions. This will extend nutrient availability at the end of feeding cycle to avoid costly hand topdressing. Apply at the end of growing cycle prior to shipment, as a final feed to avoid labor, waste and spillage.

For Constant Feed: Use on all nursery stock, potted and containerized plants as both foliar or root feeding.

TREES & ORNAMENTALS:

The nitrogen release period for deep root injection extends 3 to 6 months depending on soil and climate conditions. There is no danger of phytotoxicity. No special agitation is required. For trees, apply 1 lb. nitrogen per 1,000 sq. ft. (under canopy). Inject 4"-8" below soil surface, into root zone, with correctly calibrated tree fertilizer injection equipment. For ornamentals, apply 3/4 lb. nitrogen twice a year as a soil drench.

COMPATIBILITY:

Fertilizer Blends: Nitro-30 can be blended with other N-P-K ma-

materials to enhance their absorption and efficacy, and sticking properties. It is compatible with many potassium, phosphorus, micronutrients and crop protection chemicals. Be sure to always read label instructions of technical materials before mixing. When mixing with other products be sure that the final pH of the mixed solution is pH 7 or above. For further instructions on mix , please contact Growth Products prior to making blends. Do NOT mix with highly acid materials. Always use a jar test with appropriate concentrations before mixing chemicals in your tank.

CAUTION:

The following conditions must be observed in order to apply Nitro-30 successfully. Failure to follow these instructions may result in damage to the plant.

- DO use Nitro-30 under conditions of optimum plant growth including highest humidity, moderate temperatures and adequate soil moisture.
- DO add, as a minimum, equal amount of water. Do use sufficient water to provide thorough coverage.
- DO a jar test before mixing chemicals in your tank.
- DO dilute Nitro-30 with water prior to mixing with other nutrients or pesticides. The following mixing procedures should be used after Nitro-30 has been diluted with water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles, 4. surfactants, 5. emulsifiable concentrates.
- DO agitate during each addition. Be sure each product is mixed well before adding the next technical material. It is recommended to apply all of mixture in one day.
- DO use the correct label spray rates of any pesticide used with Nitro-30.
- DO consult your local distributor for rate and application instructions.
- DO NOT use when crop is under heavy stress from pests, heat or inadequate moisture levels.
- DO NOT apply by aircraft if surface wind is greater than 5 miles per hour to assure adequate crop coverage and droplet deposition.

STORAGE & HANDLING

When stored below 32° F (0° C) for long periods of time, Nitro-30 will become cloudy or viscous. When placed in warmer temperatures or mixed with warm water Nitro-30 will regain its normal fluid state. Freezing does not affect the agronomic quality of this product.

Greenhouse Foliar Spray Recommendation		
Application	Rate	Frequency / Notes
For All Types of Greenhouse Crops	Transplanting: Mix 1-2 oz per gallon of water (8-16 ml per liter water)	Soak plug tray or foliar spray after transplanting
	Propagation: ½-1 oz per gallon water (4-8 ml per liter water)	Apply at 2nd leaf stage and then every 10-14 day intervals.
	Maintenance: ½ -2 oz per gallon water (4-16 ml per liter water)	Apply at 10-14 day intervals to supplement nutrient requirements.

Nitro-30 (30-0-0)							
Fluid Ounces of Nitro-30 (30-0-0) per Gallon of Stock Tank Water							
PPM Nitrogen	25	50	75	100	150	200	300
1:500	4	9	13	17	26	35	52
1:300	3	5	8	10	16	21	31
1:200	2	3	5	7	10	14	21
1:100	1	2	3	3.5	5	7	10
1:50	.5	1	1	2	3	3.5	5
1:15 Ratio for Hozon Proportioner							
1:15	0.13	0.26	0.39	0.52	0.78	1	1.56

Transplant Solutions		
Application	Rate	Frequency / Notes
Fruit, Nut, Citrus Trees, Berries, and Vines	1 gallons in 100 gallons of water (1 Liter in 100 Liters of water)	Drench roots at time of transplant with 1 - 2 gallons (4 - 8 Liters) of mix.
Plugs	Foliar Spray: ½-1 gallon in 100 gallons of water (1 Liters in 100 Liters of water)	Drench plug and plant immediately. Do not allow plants to dry or wilt.
	Injector Ratio: 3.5 fl oz per gallon of stock tank water ratio at a 1:100 ratio (25 ml per L water at 1:100 ratio)	Set injector at 100 PPM of Nitrogen.
Important: The total amount of Nitro-30 used should not exceed 3 gal per acre (28 Liters per Ha)		

Nursery Applications		
Application	Rate	Notes
Containerized and Field Grown Crops, (including but not limited to):Deciduous and Evergreen Trees, Foliage, Ornamental Grasses, Perennials, Tropicals, Woody Ornamentals	Foliar Spray: 1 gallon per 100 gal of water (1 L in 100 L water)	Thoroughly spray to point of run-off. Apply every 2-4 weeks.
	Injector Ratio: 5-7 fl oz per gallon of stock tank water at a 1:100 ratio (35 - 52 ml per 1 liter water)	Set injector at 150-200 PPM of Nitrogen. Apply monthly.

Fertigation / Drip Irrigation Rates		
Application	Rate per acre (Hectare)	Frequency / Notes
Sprinkler Irrigation	1-3 gallons (9-28 liters)	Apply 3-6 times per growing season or as needed to supplement nitrogen requirements
Drip Irrigation	Tomatoes & Peppers 1-3 gallons (9-28 liters)	Apply 2 times per month for 3 to 4 months.
	Strawberries 1-3 gallons (9-28 liters)	Apply twice monthly throughout growing season.
	Grapes, Trees & Vines 1-3 gallons (9-28 liters)	Apply 3 times per year or every 30 days in sandy soils.
	Lettuce, Celery and leafy Vegetables 1-3 gallons (9-28 liters)	Apply at first irrigation and repeat as needed.

Crop Application Recommendations

Crop	Rate	Application Timing / Intervals
Bananas	1 - 3 gallons per acre (9-28 liters per hectare)	Apply at 2 - 3 week intervals. 20-30 applications per year.
Berries , such as (but not limited to): Blueberry, Blackberry, Raspberry, Strawberry	½ - 2 gallons per acre (5-18 liters per hectare)	Apply prior to bloom. Repeat at fruit set to early fruit color. Repeat every 14 - 21 days until harvest.
Bulb Vegetables , such as (but not limited to): Onions, Garlic, Shallots	½ - 1½ gallons per acre (5-14 liters per hectare)	Apply 3 times each season starting when first early-set is 3 inches, then at midseason, and then 2-3 weeks prior to harvest.
Citrus , such as (but not limited to): Grapefruit, Lemons, Limes, Oranges, Pomelo, Tangelo, Tangerines	½ - 3 gallons per acre (5-28 liters per hectare)	Apply early spring and on flush growth. Apply at pre-bloom to increase fruit set. Apply post bloom to 3rd petal fall to increase fruit size and cell elongation. Repeat in 30 days and when nitrogen needs are evident. Can be applied with crop protection sprays.
Cole Crops , such as (but not limited to): Broccoli, Cauliflower, Cabbage, Brussels Sprouts, Collards	½ - 2 gallons per acre (5-18 liters per hectare)	Apply at early head formation and repeat 14-21 days later.
Cucurbits , such as (but not limited to): Cucumber, Cantaloupe, Squash, Pumpkin, Melons	½ - 3 gallons per acre (5-28 liters per hectare)	Apply at early bloom and repeat approximately 4 weeks later.
Field Crops , such as (but not limited to): Barley, Corn, Oats, Peanut, Rice, Soybean, Sugar Beet and Wheat.	½ - 3 gallons per acre (5 - 28 liters per hectare)	Apply at flag leaf emergence or before flowering and repeat in 14-21 days after pollination.
Fruiting Vegetables , such as (but not limited to): Peppers, Tomato, Eggplant, Okra, Tomatillo	½ - 2½ gallons per acre (5-23 liters per hectare)	First application at early bloom. Repeat at fruit set and again 15 to 30 days later. Apply 3 to 4 weeks prior to harvest to strengthen canopy to reduce sunburn.
Grapes , such as (but not limited to): Wine and Table Grapes	¼ - 2 gallon per acre (2-19 liters per hectare)	Apply at shoot growth to promote full canopy. Reapply at bloom to set fruit, and then again after bloom when nitrogen is needed.
Grasses Grown for Seed, Sod Production, Pasture, Forage and Alfalfa	¼ - 2 gallons per acre (2 - 19 liters per hectare)	Apply in early spring for good growth, then apply monthly and again after harvesting.
Herbs and Spices , such as (but not limited to): Coriander, Basil, Chives, Dill, Rosemary, Sage & Mint	¼ - 1 gallon per acre (2 - 9 liters per hectare)	Apply after planting and reapply after harvesting.
Leafy Vegetables , such as (but not limited to): Lettuce, Celery, Spinach, Parsley, Radicchio	½ - 2 gallons per acre (5-18 liters per hectare)	Apply after transplanting, thinning, or at 2nd true leaf stage. Apply subsequent application at 7-14 day intervals. Use as needed to supplement nutritional requirements.
Legumes and Pulses , such as (but not limited to): Beans, Green Beans, Snap Beans, Lentils, Peas	½ - 3 gallon per acre (5-19 liters per hectare)	Apply shortly after first flower appears. Repeat 10 - 14 days later.
Root, Tuber and Corm Vegetables , such as (but not limited to): Carrot, Potato, Sweet Potato, Beets, Ginger, Radish, Ginseng, Turnip	½ - 3 gallons per acre (5-28 liters per hectare)	Apply after transplanting, thinning, or at 2nd true leaf stage. Apply subsequent application at 10-15 day intervals. Use as needed to supplement nutritional requirements.
Tree Fruits and Nuts , such as (but not limited to): Almond, Apple, Apricot, Cacao, Cherry, Coffee, Filbert, Nectarine, Olive, Peach, Pear, Pecan, Pistachio, Plum, Prune, Quince and Walnut	½ - 3 gallons per acre (5-28 liters per hectare)	Apply first application at green tip, pink bud, dud swell or early bloom. Apply at 30 day intervals up to harvest for improved sizing. Apply post harvest in 1 or 2 applications. Apply as needed to supplement nutritional requirements.
Tropical / Sub Tropical Fruits , such as (but not limited to): Avocados, Coffee, Dragon Fruit, Durian, Mangos, Papaya, Pineapples, Rubber Trees	½ - 2½ gallons per acre (5-23 liters per hectare)	Apply on new major growth and on successive flushes. Spray monthly until harvest. Do not apply during bloom.

Suggested Program For Control Of Corky Root And Club Root

Spray in a band wide enough to cover crop to economize. Apply with sufficient water for complete coverage.

	Rate per acre (Hectare)	Frequency / Notes
Head and Leaf Lettuce Varieties, Cauliflower, Broccoli, and Other Vegetable Crops with Similar Root Disorders	¾ gallon (7 Liters)	Apply to foliage following thinning or transplant.
	1¾ gallon (16 Liters)	Apply to foliage 2 to 3 weeks after first application. Repeat for another two applications 2-3 weeks later for a total of three applications.

Bulk Storage: Nitro-30 can be stored in polypropylene, fiberglass, stainless or mild steel tanks. Heat does not affect this product. Recommended storage temperature for Nitro-30 is 40° F and above. When stored outside for long periods of time in temperatures <32° F it is recommended to dilute the concentrate with water by 10-15% to assure fluidity. If temperatures are less than 100 F, store inside warehouse. Nitro-30 SRN does not require any special agitation. It is not corrosive to most metals with a slightly alkaline pH and can be used through any irrigation or spray equipment.

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. **IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**