



NITRO+K (22-0-16)

CONTAINS 18.7% SLOW RELEASE NITROGEN

CROP TREATMENT RECOMMENDATIONS

GUARANTEED ANALYSIS:

Total Nitrogen (N)22%
3.3% Urea Nitrogen
18.7% Slowly Available Nitrogen*

Soluble Potash (K₂O) 16%

Sources: Low Biuret Urea, Methylene Urea, Potassium Carbonate

*18.7% Slowly Available Nitrogen from Methylene Urea.

Weight per gallon12.1 lbs.

Salt Index60

1 gallon contains2.66 lbs. N

1 gallon contains1.9 lbs. K

1 Ton (2,000 lbs.) = 166 gallons

PRODUCT DESCRIPTION:

Nitro+K (22-0-16) is a crystal clear liquid nitrogen / potassium solution that can be applied by ground or by air. Because of the sticker benefit of the slow release nitrogen, there is improved K uptake. Nitro+K does not contain any chlorides or sulfates. The low salt formulation was developed to supplement standard soil fertility practices as a foliar feed on crops. Because Nitro+K can be used as a foliar applied nitrogen / potassium source the amount of soil applied nitrogen can be reduced, thus decreasing losses from nitrate leaching and volatilization. Each gallon of Nitro+K contains 2.66 lbs. nitrogen and 1.9 lbs. potassium. Nitro+K can also be used as a sticker to enhance chemical pesticide uptake.

CAUTION:

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

- DO use Nitro+K 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 add wettable or soluble powders, emulsifiables or flowables to water in the mix and wet, dissolve or disperse before adding Nitro+K.

- DO use the correct label spray rates of any pesticide used with Nitro+K.

- 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.

- DO NOT spray to run off. Do not spray to visible droplet coalescence. Do not allow concentrated spray mist to run on fruit or leaves.

- DO NOT apply during the heat of the day.

CROP TREATMENT RECOMMENDATIONS:

All recommendations are based on broadcast spray application. When band or directed sprays are used, calculate the rate for the "sprayed acre" only. For the most field and horticultural crops the early season applications are directed sprays.

For treatment of individual trees and vines, divide rate per acre by number of trees or vines per acre.

FIELD CROPS:

Alfalfa: ½ - 2 gal/acre (5 - 19 l/ha) immediately after each cutting. 1 - 2 gal/acre (9 - 19 l/ha) after the final cutting of the season.

Canola: ½ - 1 gal/acre (5 - 9 l/ha) pre-bloom.

Corn: ¾ - 2 gal/acre (7 - 19 l/ha) after pollination.

Corn (Seed): 1 - 2 gal/acre (9 - 19 l/ha) before detasseling and repeat after pollination.

Cotton: For seedlings apply ½ to ¾ gallon/acre (5 - 7 l/ha) after true leaves appear. After seedling stage apply ¼ to ¾ gallon (2 - 7 l), apply as a carrier for crop protection, chemicals and growth regulators. For boll development apply ¾ - 1 gallon (7 - 9 l) during early boll formation and repeat at 14 - 21 day intervals.

Dry Beans: 1 - 2 gal/acre (9 - 19 l/ha) at early bloom, and repeat after pods are formed.

Flax: ¾ - 1 gal/acre (7 - 9 l/ha) at early boll development.

Grass (Seed production): ¾ - 1 gal/acre (7 - 9 l/ha) at pre-bloom. 2 - 3 gal/acre (19 - 28 l/ha) at seed head elongation. Can be applied in multiple applications with fungicide. Can be applied to Penncross Stolens at ½ - 1½ gal/acre (5 - 14 l/ha).

Grain Sorghum: ¾ - 1 gal/acre (7 - 9 l/ha) after pollination.

Hops: ¾ - 1¼ gal/acre (7 - 12 l/ha) before cone development.

Milo: 1 - 2½ gal/acre (9 - 23 l/ha) 3 - 4 times each season starting at 3 week intervals, starting at 8 - 12 inch height.

Mint (Peppermint, Spearmint): For row mint or established.

1¼ - 2¼ gal/acre (12 - 21 l/ha) end of March/early April

2¼ - 4¼ gal/acre (21 - 40 l/ha) post flame late April/early May

1¼ - 2¼ gal/acre (12 - 21 l/ha) mid June

2¼ - 4¼ gal/acre (21 - 40 l/ha) mid July

1¼ - 2¼ gal/acre (12 - 21 l/ha) post harvest

Can be combined with fungicides & insecticides if buffered properly.

Peanuts: 2 - 4 gal/acre (19 - 38 l/ha) at early bloom and repeat as necessary until pods are filled.

Rice: 2 - 4 gal/acre (19 - 38 l/ha) at flag leaf emergence and repeat when nitrogen needs are evident.

Safflower: 2 - 4 gal/acre (19 - 38 l/ha) at early bloom.

Seed Crops: 1 - 1¼ gal/acre (9 - 12 l/ha) at early bloom. 3 to 4 weeks later apply 1½ gal/acre (12 l/ha). 30 - 60 days prior to harvest apply 1½ gal/acre (14 l/ha) to fill out seed.

Soybeans: 1¼ - 2¼ gal/acre (12 - 21 l/ha) at early pod and repeat in 14 - 21 days.

Sugar Beets: 2 gal/acre (19 l/ha) at 10 - 12 inch leaf stage and repeat at 20 inch leaf stage.

Sunflowers: ¾ - 1¼ gal/acre (7 - 12 l/ha) when outer seeds start to fill. Repeat in 10 - 14 days.

Tobacco: 1 - 1½ gal/acre (9 - 14 l/ha) at plant bed stage to near maturity as needed to maintain crop growth and quality.

Wheat, Barley & Oats: 1¼ - 4 gal/acre (12 - 38 l/ha) at flag leaf stage. Can be applied with herbicides at ¼ - 1¼ gal/acre (2 - 12 l/ha).

VINE CROPS:

Grapes (Table): ¾ - 2½ gal/acre (7 - 24 l/ha) when nitrogen needs are evident or an increase in canopy is required to reduce sunburn.

COLE CROPS:

Cabbage (Bok Choy & Nappa), Cauliflower, Broccoli, Brussels Sprouts: 1¼ - 2 gal/acre (12 - 19 l/ha) at early head and repeat 7 - 10 days later.

VEGETABLE CROPS:

Snap Beans: 2½ gal/acre (24 l/ha) at early bloom (with fungicide). Can be applied in split applications.

Green Beans & Peas: ½ - 2½ gal/acre (5 - 24 l/ha) shortly after first flowers appear, and repeat 10 - 14 days later.

Lima Beans: 1½ - 2½ gal/acre (14 - 24 l/ha) at early bloom, and repeat after pod fill begins.

Potatoes: For single applications apply 2 gal. (19 l/ha) for mid tuber development. For multiple applications apply ¾ - 1 gal (7 - 19 l/ha), during tuber initiation and repeat at 10-14 day intervals until maximum tuber development has occurred.

Artichokes: 1 - 2½ gal/acre (9 - 24 l/ha) 3 to 4 weeks prior to each peak harvest period.

Asparagus: 1¼ - 2 gal/acre (12 - 19 l/ha) beginning at mid-fern development, then at 14 - 21 day intervals.

Carrots: ¾ - 1½ gal/acre (7 - 14 l/ha) when plants are 3 - 6 inches tall. Repeat at 3 week intervals.

Celery: ½ - 1½ gal/acre (5 - 14 l/ha) 10 days after transplanting. Repeat at 2 gal/acre (19 l/ha) in 3 intervals until 2 - 3 weeks prior to harvest, using 8 gal/acre (72 l/ha) total over crop.

Cucumbers: For single applications apply 2 gal (19 l/ha)

for early fruit set. For multiple applications apply $\frac{3}{4}$ - 1 gal. (7 - 9 l/ha) During early flower and repeat at 10-14 day intervals.

Lettuce: $1\frac{1}{2}$ - $2\frac{1}{2}$ gal/acre (14 - 24 l/ha) after thinning. Repeat 14 days later and again 14 days prior to harvest.

Onions: $1\frac{1}{2}$ gal/acre (14 l/ha) when onions reach 6 - 8 inches. Repeat during bulb fill and again 2 weeks prior to harvest.

Garlic: Spray $\frac{1}{2}$ - $1\frac{1}{2}$ gal/acre (5 - 14 l/ha) directed over row from 10 - 12 inches height. Make 3 to 4 applications.

Peppers: $1\frac{1}{2}$ - $2\frac{1}{2}$ gal/acre (14 - 24 l/ha) at early bloom and repeat 14 days later to improve fruit set and canopy to reduce sunburn.

Spinach: $1\frac{1}{2}$ - $2\frac{1}{2}$ gal/acre (14 - 24 l/ha) when adequate foliage. Apply again 7 - 10 days prior to harvest if double cropping.

Sweet Corn: 1 - 2 gallons (9 - 19 l/ha) per sprayed acre starting at second to third leaf stage, pretassel and early leaf development and again at early silk stage.

Sweet Potatoes: Use planting drench of $2\frac{1}{2}$ gallons per 100 gallons of water (24 l per 379 l), then foliar apply 1 - 3 gal/acre (9 - 28 l/ha) 3 weeks after planting.

Tomatoes: $1\frac{1}{2}$ - 2 gal/acre (14 - 19 l/ha) at early bloom. Repeat at fruit set and again 15 - 30 days later. Apply 2 - 3 gal/acre (19 - 28 l/ha) 3 - 4 weeks prior to harvest to strengthen canopy to reduce sunburn.

BERRIES:

Strawberries: $\frac{1}{2}$ - 2 gal/acre (5 - 19 l/ha) early bloom and repeat in 14 - 21 days.

Blueberries: 1 - $1\frac{1}{2}$ gal/acre (9 - 14 l/ha) early fruit set and repeat at early fruit color.

Caneberries: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) prior to fruit set.

Cranberries: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) at hook stage and repeat after fruit set.

NUTS:

Almonds: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) at pre-pink bud to early bloom to increase set. Repeat in 30 days at $1\frac{3}{4}$ - $2\frac{1}{4}$ gal/acre (16 - 21 l/ha) to maintain set. Use higher rates for larger trees and/or when more foliage is present. Post harvest apply 1 - 2 gallons (9 - 19 l/ha) in 1 or 2 applications. Compatible with Zinc.

Filberts: Single application: 1 - 3 gal/acre (9 - 28 l/ha) at

early nut filling. Multiple applications: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) at early leaf expansion and repeat at 14 - 21 day intervals.

Hazelnuts: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) at early leaf expansion and repeat at 14 - 21 day intervals. Post harvest apply 2 - 3 gal/acre (19 - 28 l/ha) in 1 or 2 applications to strengthen buds.

Pecans & Pistachios: $\frac{3}{4}$ - 1 gal/acre (7 - 9 l/ha) at full leaf, repeat at early nut development.

Walnuts: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) when nitrogen needs are evident. (mid-June to late July in California) Post harvest apply 2 - 4 gal/acre (19 - 38 l/ha) in 1 or 2 applications.

FRUIT TREES:

Apples: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) in bud swell to king bloom and $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) 30 - 40 days prior to harvest for sizing. Post harvest apply 2 - 4 gal/acre (19 - 38 l/ha) in 1 or 2 applications.

Figs: 1 to 2 gal/acre (9 - 19 l/ha), 3 to 4 times each season. Starting at first full leaf, then at fruit set, fruit size and 3 to 4 weeks prior to harvest.

Pears (Bartlett): $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) at pre-bloom and repeat every 30 days until 4 weeks prior to harvest. As some varieties (i.e. De Anjou) are more sensitive under certain conditions, extreme caution should be exercised. Post harvest apply 4 - 5 gal/acre (38 - 47 l/ha) in 1 or 2 applications.

MELON:

Squash, Pumpkins, Watermelons, and Cantaloupes: $\frac{3}{4}$ - 2 gal/acre (7 - 19 l/ha) at early bloom, and repeat approximately 4 weeks after bloom application.

STONE FRUIT TREES:

Cherries & Apricots: 1 to $2\frac{1}{2}$ gal/acre (9 - 24 l/ha), 3 to 4 times each season. Starting at pink bud, first full leaf, then at fruit midsize and post harvest.

Olives: 1 - 2 gal/acre (9 - 19 l/ha) 3 times each season. Starting in pre-bloom, early fruit development and 3 - 4 weeks prior to harvest.

Peaches, Prunes, Plums & Nectarines: $\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) at bud swell to early bloom when increased fruit set is desired and repeat in 30 days to maintain increased set. Apply 3 - 4 gal/acre (28 - 38 l/ha) 4 - 6 weeks prior to harvest for improved fruit sizing, firmness and reduction in "green shoulders". Post harvest apply 4 - 5 gal/acre (38 - 47 l/ha) in 1 or 2 applications to strengthen buds and to stor-

age. Compatible with Zinc.

CITRUS:

Citrus: $\frac{3}{4}$ - $1\frac{1}{4}$ gal/acre (7 - 12 l/ha) at pre-bloom or bloom to increase fruit set and repeat in 30 days. Subsequent applications when nitrogen needs are evident.

YOUNG TREES:

For growth response use $4\frac{1}{2}$ gallons (43 l) in 100 gallons (379 l) water and spray to wet.

Transplant Solutions and Drenches: Mix thoroughly 1 - 2 gallons of water (9 - 19 l) and drench roots. For vegetables drench entire plant. Plant immediately after drenching. Do not allow plants to dry or wilt. Total amount of Nitro+K used should not exceed 3 gal/acre (28 l/ha) regardless of amounts of water used in transplanting.

OTHER:

Avocados: $\frac{1}{2}$ to $2\frac{1}{2}$ gallons per acre (5 - 24 l/ha) timed to pre-bloom, early fruit set and fruit sizing periods.

SUGGESTED PROGRAM FOR CONTROL OF CORKY ROOT AND CLUB ROOT:

Head and leaf lettuce varieties, cauliflower, broccoli, and other vegetable crops with similar root disorders.

$\frac{1}{2}$ gal/acre (5 l/ha) to foliage following thinning or transplanting

$1\frac{1}{2}$ gal/acre (14 l/ha) to foliage 2 - 3 weeks after first application

$1\frac{1}{2}$ gal/acre (14 l/ha) to foliage 2 - 3 weeks after second application

$1\frac{1}{2}$ gal/acre (14 l/ha) to foliage 2 - 3 weeks after third application on maturing crops with large leaves and developing heads. (Cauliflower, Broccoli, Brocflower)

Use in sufficient water for complete coverage. Spray in a band wide enough to cover crop to economize and to reduce nitrate accumulation concerns.

RECOMMENDED DRIP FERTIGATION RATES:

Strawberries: 2 - 4 gal/acre (19 - 38 l/ha) twice a month for 5 to 6 months in California.

Tomatoes and Peppers: 2 - 4 gal/acre (19 - 38 l/ha) twice a month for 3 to 4 months.

Grapes: 2 - 4 gal/acre (19 - 38 l/ha) three times per season.

Lettuce: 2 - 4 gal/acre (19 - 38 l/ha) at first irrigation and repeat as needed.

Trees & Vines: 4 gal/acre (38 l/ha) at least every 30 days in sandy soils. Apply in combination with other drip materials at 25 and 50% ratios to improve fertilizer efficiency.

RECOMMENDED APPLICATION FOR FRUIT AND NUT TREES, PRE BLOOM THROUGH BLOOM:

To increase flower initiation and fruit set for increased yields of fruits and nuts: For almonds, apricots, citrus, filberts, kiwi, nectarines, peaches, plums, prunes and walnuts.

$\frac{1}{2}$ - 1 gal/acre (5 - 9 l/ha) of Nitro+K at pink bud, popcorn or early bloom in adequate water for complete coverage.

$1\frac{1}{2}$ - 2 gal/acre (14 - 19 l/ha) of Nitro+K at petal fall to thirty days after bloom spray in adequate water for complete coverage.

PRECAUTIONARY STATEMENTS:

CAUTION:

KEEP OUT OF REACH OF CHILDREN

CONDITIONS OF SALE:

Follow directions carefully. Timing and methods of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

STORAGE & DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Triple rinse container; empty rinsate into spray tank. Dispose of the empty container according to approved local practices; contact county agricultural commissioner for disposal information.

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