

Total N 36

Application Guide

Guaranteed Analysis

	W/V%	Gms/Lt
Total Nitrogen (N).....	36.1%	361
Nitrogen (N) as Slow Release	26.05%*	260.5
Nitrogen (N) as Urea.....	10.05%	100.5

*72 % of N is Slowly available nitrogen derived from urea-triazone solution

Total N 36, is a clear liquid containing the patented slow-release nitrogen compound TRIAZONE™. TRIAZONE nitrogen means increased crop safety, increased nitrogen absorption, translocation and remobilisation when used on agricultural crops including vegetable, fruit, nut and field crops.

Total N 36 gives the grower excellent crop safety and helps promote uniform growth.

Total N 36, contains 72% slow-release nitrogen (SRN) and less urea than any other slow-release nitrogen fertiliser solution.

Total N 36, may be applied as a foliar application on all field crops to enhance growth and quality and to correct nitrogen deficiencies.

Key Benefits include

- Efficient usage of N – Provides immediate and slow release N effectively.
- Can deliver higher rate of N with lower water rates without burning – very safe.
- Provides N as the plant requires.
- Rainfast under normal conditions in 1 hour.
- Most absorbed in 6 – 8 hours – all in 24 hours.
- Minimum losses from hydrolysis, denitrification and leaching.
- By staying in the liquid phase on the leaf it does not crystallise on the leaf surface or lose Nitrogen to the atmosphere through ammonia volatilisation.
- Convenient liquid.
- Compatible with most agro chemicals and foliar fertilisers.
- Formulated for maximum uptake and crop safety.

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KEEP OUT OF REACH OF CHILDREN • USE CAUTION WHEN HANDLING

GENERAL DIRECTIONS

Total N 36 is well suited to the custom formulation of fertiliser blends and is compatible with many phosphorus, potassium and micronutrient sources as well as many crop protection chemicals. In the absence of published data, Growth Agriculture recommends testing for compatibility in all spray combinations by a simple jar test with appropriate concentrations. Care should be taken not to blend Total N 26 with highly acidic materials and materials containing a high level of free ammonia.

Total N 36's normal nitrogen release pattern is eight to ten weeks.

Total N 36 may be applied in low or high volume air or ground application. Apply with sufficient water to achieve adequate plant coverage, avoid application when temperatures are above 33° C and relative humidity is below 30%.

Total N 36 may be soil applied as a band, side dress or injected through the irrigation system, sprinkler, drip or centre pivot.

SUGGESTED APPLICATION RATES

BROAD ACRE CROPS - FOLIAR

Crop	Rate Lt/Ha	Time of Application	Crop	Rate Lt/Ha	Time of Application
Canola	10 to 20	Apply just prior to bolting.	Peanuts	10 to 15	Early bloom and repeat at 14 to 21 day intervals until pods are filled.
Corn	5 to 20	When plants are 30 cm to 60 cm tall, then at tassel emergence and repeat after pollination.	Potatoes	10 to 20	Tuber initiation and repeat at 10 to 14 day intervals until maximum tuber development has occurred.
Cotton (As an aid to overcome water logging)	2 to 5 plus 2 to 5 lt Growth B&B	If possible, apply immediately prior to a likely waterlogging event or immediately after such event. Add B&B to mix last and apply in sufficient water to obtain adequate coverage.	Rice	10 to 25	Panicle initiation. Repeat as required.
Cotton (Early Season)	5 to 10	Apply in an over the row application after plants reach 4 leaf stage.	Small Grains	10 to 20	Tillering through flag leaf emergence.
Cotton (Late Season)	5 to 20	Apply at first flower and repeat as necessary.	Soybeans	5 to 20	Early pod formation and repeat in 14 to 21 days.
Grain Sorghum	5 to 15	After pollination.	Sugar Cane	10 to 20	Apply when cane is 1 mt high
Grass Seed Production	10 to 24	Seed head elongation.	Sunflowers	10 to 20	When outer seeds start to fill, repeat in 10 to 14 days.
Hops	10 to 15	Before cone development.	Wheat & Winter Cereals	10 to 30	At flag leaf stage depending on residual soil fertiliser or rainfall, etc. Repeat as required.
Lucerne	10 to 20	Apply after each cutting when sufficient foliage is present.	Other Broad acre crops	10 to 15	When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rates are desirable.

BROAD ACRE CROPS - FERTIGATION

Centre Pivot - Apply 30 to 50 Litres per Hectare per application as needed based on crop requirements.

Drip Irrigation - Apply 30 to 50 Litres per Hectare per application 3 to 6 times during the growing season as needed.

Sprinkler Irrigation - Beginning at the 3rd to 4th leaf stage, apply 30 to 50 Litres per Hectare per application every 10 to 14 days based on crop requirement.

SUGGESTED APPLICATION RATES CONT'

VEGETABLES - FOLIAR

Crop	Rate Lt/Ha	Time of Application	Crop	Rate Lt/Ha	Time of Application
Asparagus	10 to 20	At mid-fern development	Lettuce	10 to 15	After thinning, then at early head formation & repeat at 10 to 14 day intervals.
Beans	5 to 20	At early flowering and repeat in 7 to 10 days.	Onions & Garlic	10 to 20	Mid-set development and repeat a 14 to 21 day intervals.
Broccoli, Brussel Sprouts, Cabbage & Cauliflower	10 to 20	Prior to head formation and repeat in 10 to 14 days.	Peas	10 to 20	Early flowering and repeat in 10 to 14 days.
Carrots	10 to 15	When plants are 8 to 15 cms tall. Repeat at three week intervals or as required.	Peppers	10 to 20	Early fruit set and repeat at 10 to 14 day intervals.
Celery	10 to 15	When plants are 20 to 30cms tall & repeat at 10 to 14 day intervals.	Spinach	10 to 20	When sufficient foliage is present and repeat at 14 to 21 days.
Corn (sweet)	5 to 20	When plants are 30 to 60 cms tall, then at tassel emergence and repeat after pollination.	Tomatoes	10 to 20	At full bloom and repeat at 10 to 14 day intervals.
Cucumbers, Melons & Squash	10 to 20	Early flowering repeat at 10 to 14 day intervals.	Other Vegetable crops	10 to 15	When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rates are desirable.

VEGETABLES - FERTIGATION

Sprinkler Irrigation - Beginning at the 3rd to 4th leaf stage, Apply 20 to 50 Litres per Hectare per application every 10 to 14 days based on crop requirements.

Drip Irrigation - Apply 20 to 50 Litres per Hectare per application 3 to 6 times during the growing season as needed.

FRUIT & NUTS - FOLIAR

Crop	Rate Lt/Ha	Time of Application	Crop	Rate Lt/Ha	Time of Application
Almonds And Other Nuts	10 to 24	At full leaf and repeat at early nut and expansion.	Cranberries	10 to 15	Hook stage and repeat after fruit set.
Apples	10 to 15	Begin at first full leaf & apply as needed during the growing season.	Grapes (Wine & Table)	5 to 10	Prior to fruit set. When sufficient foliage is present. Repeat as required
Blueberries	10 to 15	Early fruit set and repeat at early fruit color.	Olives	10 to 15	Early fruit development and repeat as required.
Cherries, Pears, Plums and Peaches	10 to 15	Prior to fruit set	Strawberries	5 to 15	Early flowering and repeat every 14 days through harvest. Initiate autumn application when new growth reaches 8cms in height.
Citrus	10 to 24	Early bloom and repeat after fruit set. Apply in mid-winter and repeat as required.	Other Fruit and nut crops	10 to 15	When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rates are desirable.

SUGGESTED APPLICATION RATES CONT'

FRUIT & NUTS - FERTIGATION

Sprinkler Irrigation - Apply 20 to 50 Litres per Hectare per application every 10 to 14 days based on crop requirements.

Drip Irrigation - Apply 20 to 50 Litres per Hectare per application 3 to 6 times during the season when roots are actively growing as needed.

LAWN CARE PROGRAM

Cool Season Grasses:

Rates may vary from 700 mls to 1.4 litres of Total N 36 per 100 sq Metres 4 to 5 applications at 8 to 10 week intervals for a total application rate not to exceed 1.5 kgs to 2kgs of nitrogen per year.

Warm Season Grasses:

Rates may vary from 1 litre to 1.4 litres of Total N 36 per 100 sq Metres in 5 to 6 applications at 8 to 10 week intervals for a total application rate not to exceed 2.5 kgs to 4 kgs of nitrogen per year. Rates of nitrogen and frequency of application may vary due to cultivar and accepted turf practices.

MIXING PROCEDURES WHEN TANK MIXING

TOTAL N 36

- Add 1/2 of total water to mix tank
- Start circulating material in tank
- Add recommended amount of Total N 36
- Add compatible micronutrients
- Add flowable materials
- Add emulsifiables
- Add any soluble powders and/or water soluble fertilisers.
- All should be pre-dispersed in water before adding to the spray tank solution.
- Complete filling of spray tank to desired volume and continue circulating prior to spray application
- If using Growth B&B: Liquid Blood and Bone, add to the spray tank last
- Flush all spray and nurse tank equipment after usage.

TECHNICAL DATA INFORMATION

PLANT NUTRIENT CONTENT

Guaranteed Total Nitrogen (N), W/V %.....	36.1 Min
Urea Nitrogen (N), W/V %.....	10.05 Max
Slow-Release Nitrogen (N), W/V %.....	26.05 Min
Soluble Potash (K2O), Wt. %.....	0.6 Typical

TYPICAL DISTRIBUTION OF NITROGEN FORMS, % OF TOTAL N

Slow-Release Nitrogen, Total.....	72
From TRIAZONE compounds.....	67
From Other N compounds.....	5
Urea Nitrogen.....	28

TYPICAL PROPERTIES

Specific Gravity, 15°C.....	1.29
Ph.....	9.5
Salting-Out Temperature, °C.....	<0
Freezing Point, °C.....	<0
Appearance.....	Clear, Blue

TOTAL N 36 FORMULATION AND HANDLING FACTORS

Kgs per Litre.....	1.29
Litres per tonne.....	775.2
Kgs N per Litre.....	0.36

About Growth Agriculture

Growth Agriculture is a manufacturer and importer of a unique range of products heavily focused on liquid nutrition in crop production. Sustainable agriculture, clean green and environmentally acceptable agricultural practices are at the forefront of the company's philosophy.

Growth Ag is a small Australian owned, regionally based company with a strong commitment to the Agricultural sector. We believe in fostering strong partnerships with our suppliers, distributors and end users to ensure we provide high quality products and services which are genuinely acceptable to the high demands of environmental acceptability and cost efficient production.

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