Controlled Release Nutrition

for

Potatoes & Sweet Potatoes

Potato and sweet potato

Multicote Agri

Multicote® Agri products combine controlled-release and readily available sources of nitrogen, phosphorus and potassium.

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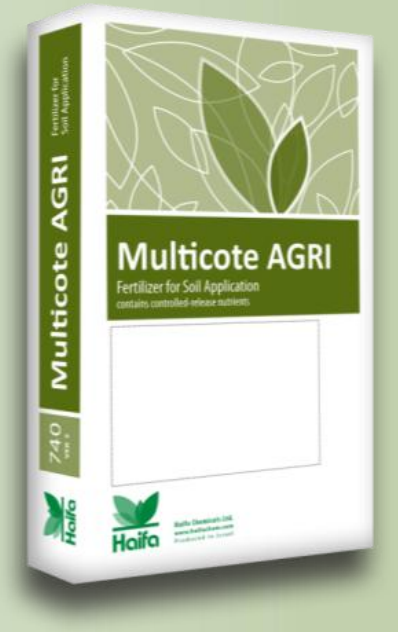


CoteN™

Controlled-Release nitrogen

- CoteN™ is a source of controlled-release nitrogen, based on polymer-coated urea.

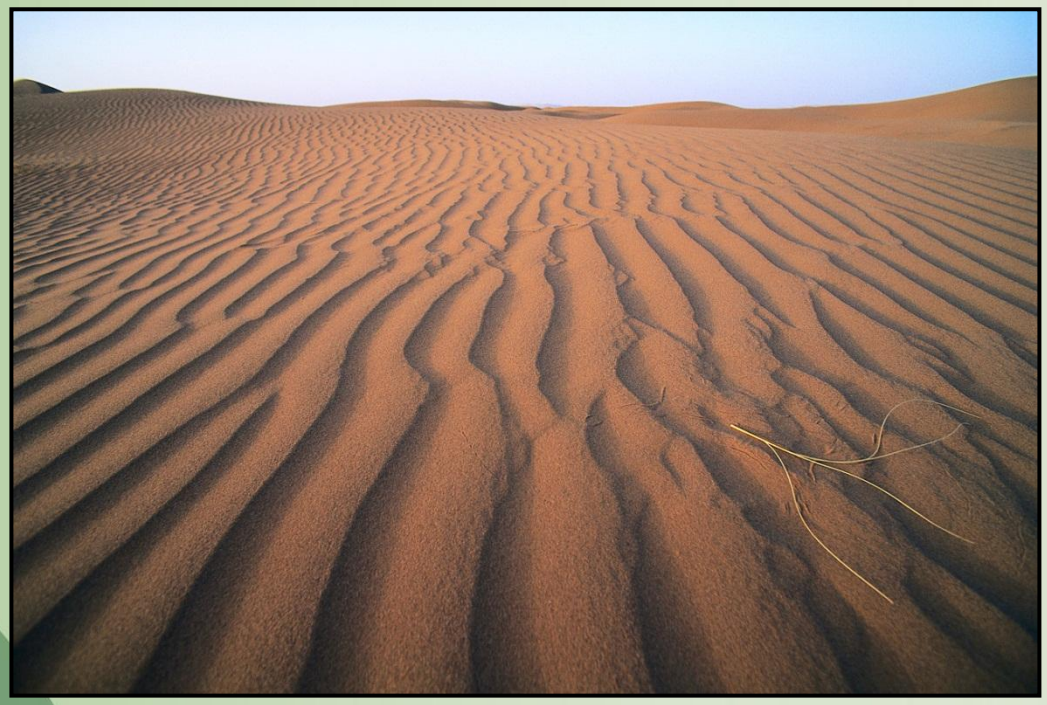
- CoteN™ may be blended with

  non-coated N, P, or K to create CoteN Mix

The benefits of Multicote Agri & CoteN™

- Single application per season = labor saving
- Optimized supply of nutrients
- Minimizes losses through leaching
  - Availability of nutrients is ensured
  - Lower application rates are required
  - Minimized contamination of soil and groundwater

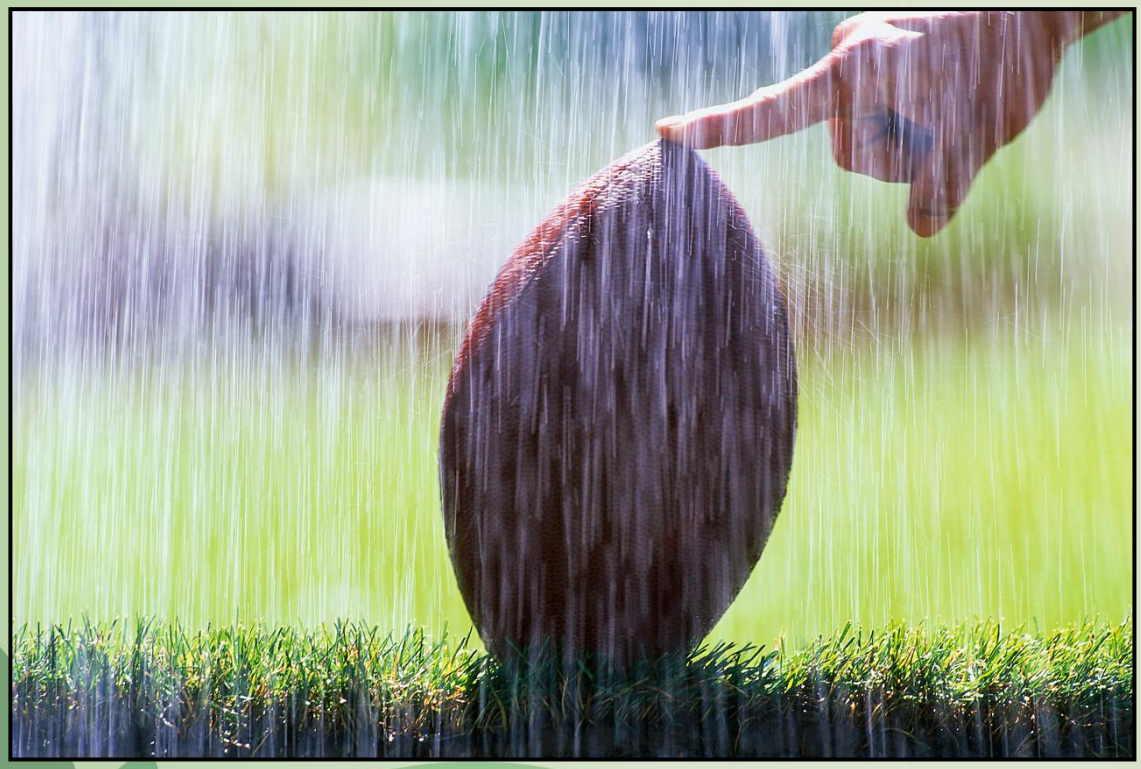
CoteN™ is recommended



On light soils

where nutrients are easily leached

CoteN™ is recommended



As base fertilizers for rainy season crops

Rainfall accelerates nutrient leaching...

CoteN™ is recommended

While the mud makes side-dressing application troublesome

CoteN™ is recommended

Where nitrogen application rates are limited by local regulations, so high efficiency of nutrient use is desired

Trial in Kibbutz Ruhama, Israel (Negev), 2006 - Treatments

Crop: Potato cv Venus

Soil type: Sandy loam

Application method:
pre-sowing application in 2 banded rows at both sides of the trench.

Treatment	Fertilizer	N kg/ha	Total tuber yield ton/ha	% dry matter
Grower's practice	Urea 46-0-0	400	61.4	18.88
CoteN	43-0-0 (70% coated)	240	62.5	19.23

Trial in Kibbutz Ruhama, Israel (Negev), 2006

Yield (ton/ha)

CoteN™ treatment: Higher yields at lower application rate

Trial in Kibbutz Nir-Eliyahu, Israel, 2006 - Treatments

Crop: Potato cv Mondial

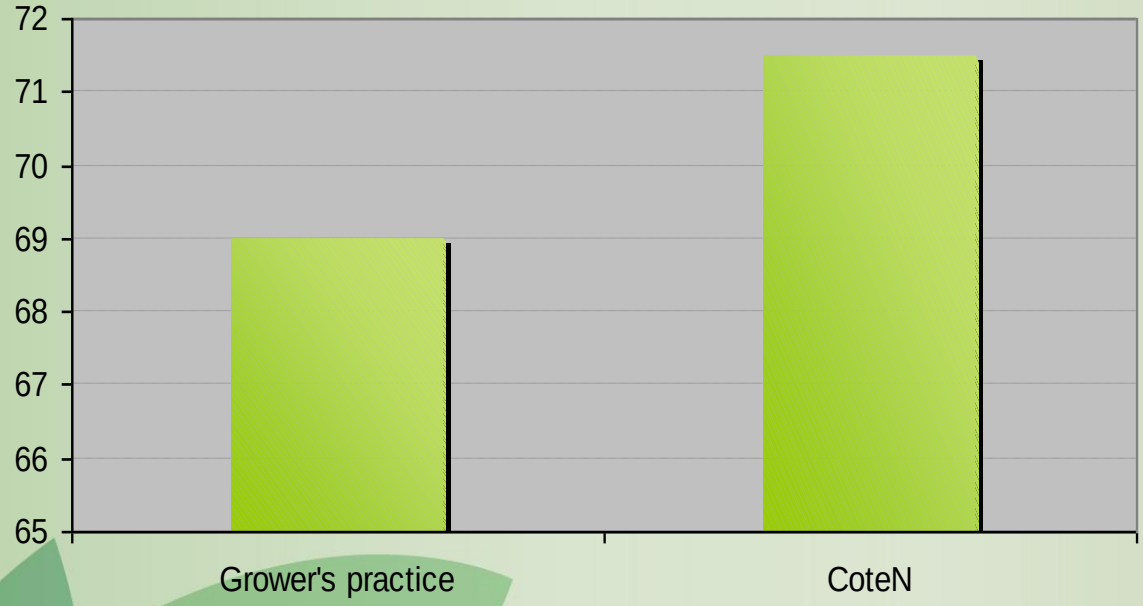
Soil type: Red loam

Application method: Pre-sowing application

Treatment	Fertilizer	N kg/ha	Total tuber yield ton/ha
Grower's practice	Urea 46-0-0	420	69
CoteN	43-0-0 (70% coated)	350	71.5

Trial in Kibbutz Nir-Eliyahu, Israel, 2006

Yield (ton/ha)



CoteN™ treatment: Higher yields at lower application rate

Trial in Kibbutz Nir-Eliyahu, Israel, 2006

Additional benefits of CoteN treatment

- Higher N levels in the soil refer to reduced leaching
- Higher chlorophyll levels in the leaves

Trial in Cudgen, Australia (NSW), 2005 - Treatments

Crop: Sweet potato cv *Beaureguard*

Treatment	Fertilizer	kg/ha		
		N	P_2O_5	K_2O
Grower's practice	Granular fertilizers	112	128	200
Multicote Agri Hi	Multicote Agri 6M 14.5-16-25 60-0-70% coated	102	112	175
Multicote Agri Med		84	93	145
Multicote Agri Lo		74	82	128

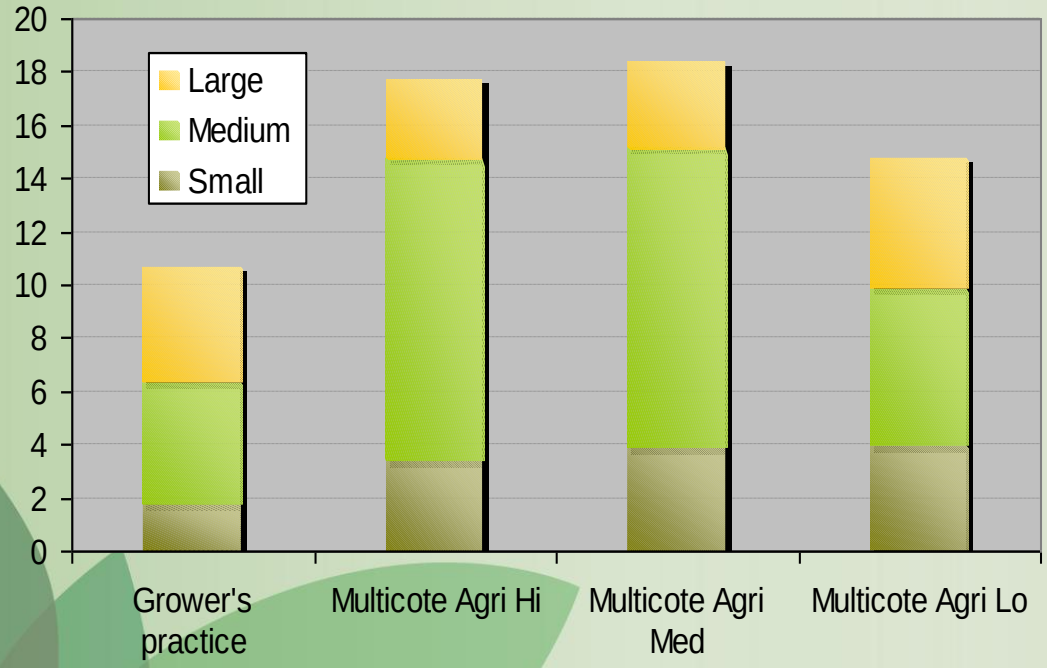
Application method
Grower's practice: base dressing + 2 side dressing applications
Multicote® Agri: base-dressing, fertilizer was incorporated to the soil at bed formation before planting

Trial in Cudgen, Australia (NSW), 2005 - Results

Treatment	Tuber size distribution (%)			Total yield Ton/ha	Income
	S	M	L		US$/ha
Grower's practice	6	16	15	28.7	9,020
Multicote Agri Hi	9	31	8	36.9	16,610
Multicote Agri Med	11	32	9	35.3	16,975
Multicote Agri Lo	12	18	15	32.8	12,580

Trial in Cudgen, Australia (NSW), 2005

Yields (ton/ha)



Highest yields and income were obtained with Multicote® Agri at 75% of conventional rates.

Application recommendations

	Application Rate % of local practice			% coated nutrients		
	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Light soil	60-70	100	70	70	-	Up to 50
Heavy soil	70-90	100	80	50-60	-	Up to 50

Application recommendations

- The recommendations should be considered as a general guide only. Actual application rates and percentage of coated nutrients may be up to 10% more or 10% less than the values given in the able .
- The exact rates, timing and mode of application should be determined according to specific crop needs, soil and water conditions, and the grower’s experience .
- Consult Haifa agronomist to customize the optimal fertilization program for your needs

Thank You

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