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SCAN THE QR CODE TO VIEW AND ORDER REDOX RESULT FROM THE DASHBOARD







Dr. Gifford Gillette provides an in-depth overview of 2023 research in this Redox Grows Podcast.









NUTRIENT

EFFICIENCY

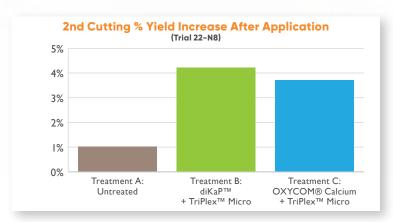
diKaP[™], TriPlex[™] Micro, and OXYCOM® Calcium on Newly Planted Alfalfa ALFALFA

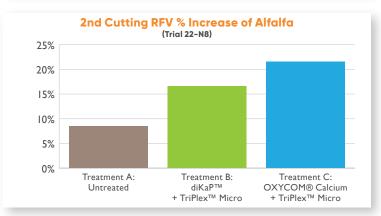


Determine what combination of Redox Bio-Nutrients products provided the best benefit to alfalfa yield and quality.

KEY OUTCOMES

A combination of Redox Bio-Nutrients products increased yield at the second cutting and the relative feed value compared with the untreated.







BACKGROUND

First year, spring-seeded alfalfa and two mature cuttings harvested prior to fall dormancy.

THE TRIAL



WHO:

Redox Research Team



WHAT:

Product	Rate	Timing	Application Method
Treatment A:			
Untreated	-	-	-
Treatment B:			
diKaP™	I lb/acre	After	Foliar
TriPlex™ Micro	I pint/acre	Cutting	FOIIAI
Treatment C:			
OXYCOM® Calcium	I lb/acre	After	Foliar
TriPlex™ Micro	I pint/acre	Cutting	Foliar



EVALUATION PARAMETERS:

- Yield
 - Relative Feed Value (RFV)



WHERE: Cassia County, ID

Increasing RFV on Alfalfa with Redox Products

Alfalfa, Sprinkler

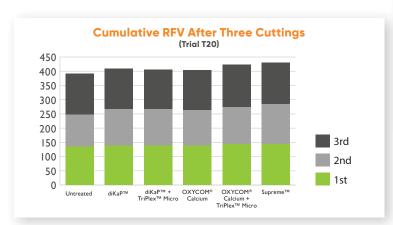


RESEARCH OBJECTIVE

Evaluate general benefits of Redox products for RFV while also evaluating additive benefits of $TriPlex^{TM}$ Micro on forage quality.

KEY OUTCOMES

All Redox Bio-Nutrients products increased relative feed value of alfalfa across three cuttings. The combination of TriPlex™ Micro and OXYCOM® Calcium doubled the percent increase of OXYCOM® Calcium alone with average increase of RFV from 3.4% to 8.1%. This combination treatment also increased yield 6% across four cuttings. Supreme™ Flowable increased yield 4.5%.



BACKGROUND

Alfalfa was in its 2nd year since planting.

THE TRIAL



WHO:

Redox Research Team



MAT:

	Rate	Timing & Application
Untreated		
diKaP™	I Ib/a	
diKaP™ + TriPlex™ Micro	l lb/a 0.125 gal/a	
OXYCOM® Calcium	I Ib/a	Foliar Application, Applied after every cutting once it has
OXYCOM® Calcium +	Hb/a	reached around 3 inches
TriPlex™ Micro	0.125 gal/a	
Supreme™ Flowable	0.25 gal/a	



EVALUATION PARAMETERS:

RVF



WHERE: Redox Research Farm, Burley, ID

EFFICIENCY

Mainstay[™] Calcium 2.0 Reduces Bitter Pit and Increased Yield

APPI F



The purpose of this trial was to determine whether bi-weekly or weekly applications of Mainstay™ Calcium 2.0 would outperform weekly applications of calcium chloride. Applications were made from April 18 to August 24.

KEY OUTCOMES

Mainstay™ Calcium 2.0 applications reduced bitter pit and increased yield over calcium chloride applications







THE TRIAL



WHO

Crop Matters, LLC.



WHAT:

Treatment	Product	Rate	Number of Applications
Treatment I	Grower Standard	-	14
Treatment 2	Calcium Chloride 32%	5 lbs./acre	14
Treatment 3	Mainstay™ Calcium 2.0	0.5 gals./ acre	14
Treatment 4	Mainstay™ Calcium 2.0	0.5 gals./ acre	7

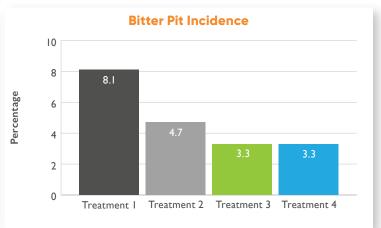


EVALUATION PARAMETERS:

- Bitter Pit
- Brix
- Yield



WHERE: Washington



NUTRIENT

EFFICIENCY

RDX-N[™] at a Half-rate of In-Season Nitrogen Improves Yield and Quality on Melons
CANTALOUPE

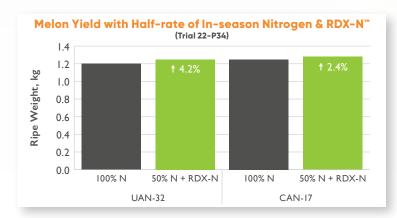


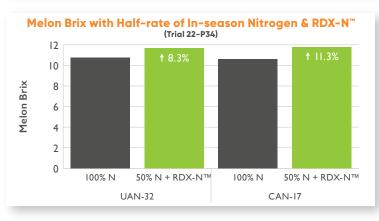
RESEARCH OBJECTIVE

Determine if the nitrogen source, UAN-32 or CAN-17, would impact the efficacy of RDX-N[™] at reduced rates of nitrogen on melons.

KEY OUTCOMES

Regardless of nitrogen source, UAN-32 or CAN-17, RDX-N[™] at reduced rates of nitrogen increased melon yield while increasing melon brix





BACKGROUND

The entire field received 350 lbs of pre-plant MAP (11-52-0) which means when considering the entire nitrogen budget for RDX-NTM efficiency rates were 70% and were outside our control. RDX-NTM was recommended at I quart per 40 lbs N delivered. The first application delivered 20 lbs of N and the second application delivered 7 lbs of N. Both applications received I pint of RDX-NTM.

THE TRIAL



WHO:

University of Arizona Cooperative Extension



WHAT:

Product	Rate	Timing	Application Method
UAN-32 (100%)	-		Injected through
UAN-32 (50%) + RDX-N™	l pt./acre	Applied at	
CAN-17 (100%)	-	planting and 3 weeks later	a drip irrigation manifold system.
CAN-17 (50%) + RDX-N™	l pt./acre		



EVALUATION PARAMETERS:

- Yield
- Brix



WHERE: Yuma, Yuma County, AZ

Mainstay™ Calcium Increases Yield on Celery

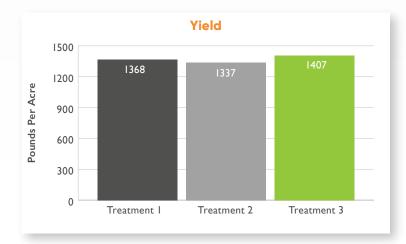
CELERY - ORGANIC



The purpose of this trial was to show that **∑** Mainstay[™] Calcium increased yield on celery.

KEY OUTCOMES

Mainstay™ Calcium improved yield by 3% over the grower standard and 5% over competing product.





THE TRIAL



WHO:

Holden Research and Consulting, Camarillo Ca.



WHAT:

Treatment	Product	Rate
Treatment I	AN20	81.5 gals./season
Treatment 2	AN20	81.5 gals./season
	Comp I	2.5 gals./season
Treatment 3	AN20	81.5 gals./season
	Mainstay™ Calcium	2 gals./season



EVALUATION PARAMETERS:

Yield



WHERE: Camarillo, CA



DEFENSE

Reducing Fruit Drop in Citrus with Mainstay™ Si and Banx™

CITRUS. VALENCIA



RESEARCH OBJECTIVE

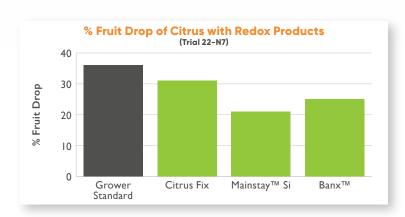
Determine how MainstayTM Si and BanxTM influence fruit drop in citrus.

KEY OUTCOMES

Both Redox treatments increased yield which increased overall fruit drop. However, the percentage of fruit that dropped was reduced for both treatments as well – by 10% for Mainstay™ Si and 5% for Banx™ (relative to the Grower Standard approach of Citrus Fix).

Fruit quality parameters such as solids and brix were also improved by $\sim 10\%$ with MainstayTM Si and 5% with BanxTM.

Overall, the Mainstay[™] Si program boosted gross return by 44% and the program with Banx[™] increased profits by 25%.



BACKGROUND

Under the conditions of this trial, Mainstay™ Si and Banx™ provide multiple, synergistic benefits to growers that impact yield and quality.

THE TRIAL



WHO:

Florida Ag Research



WHAT:

Product	Rate Timing		Application Method
Mainstay™ Si	2 qt./acre	Full bloom & 2 weeks later	Foliar
Banx™	3 lbs./acre	45 days after bloom	Foliar



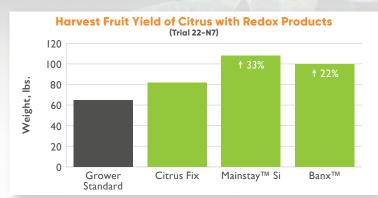
EVALUATION PARAMETERS:

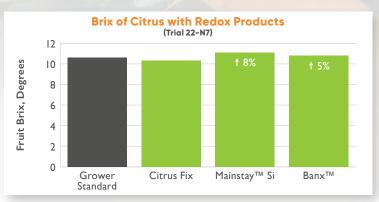
- % Fruit Drop
- Yield
- Brix
- Solids
- Gross Return

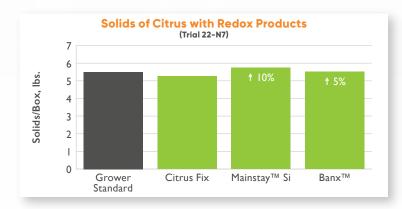


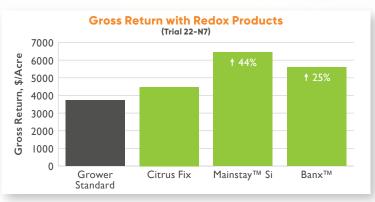
WHERE: Lake Wales, Polk County, FL











Notes:

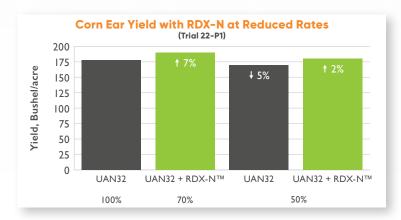
Greater Nitrogen Efficiency with RDX-N™ with Multiple In-season Applications on Corn

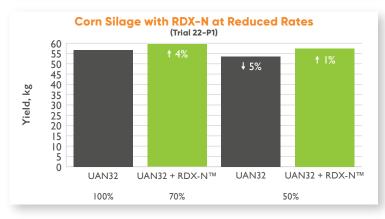


Determine if RDX-N[™] at a half-rate can maintain corn yield with regular nitrogen applications throughout the growing season.

KEY OUTCOMES

RDX-N[™] treatments maintained yield (e.g., 50%) and increased yield (70%) under the conditions of this trial with multiple applications of nitrogen throughout the year.







BACKGROUND

This research plot was following potatoes. The plot was conducive to collecting both ear and silage yield which mimics cultural practices in close proximity to dairys.

THE TRIAL



WHO:

Redox Research Team



WHAT:

Product	Rate	Timing	Application Method
UAN-32 (100%)	-		
UAN-32 (70%) + RDX-N™	I qt./40 lbs. N	At planting,	Fertigation through drip
UAN-32 (50%)	-	V3, V6, V10	
UAN-32 (50%) + RDX-N™	I qt./40 lbs. N		

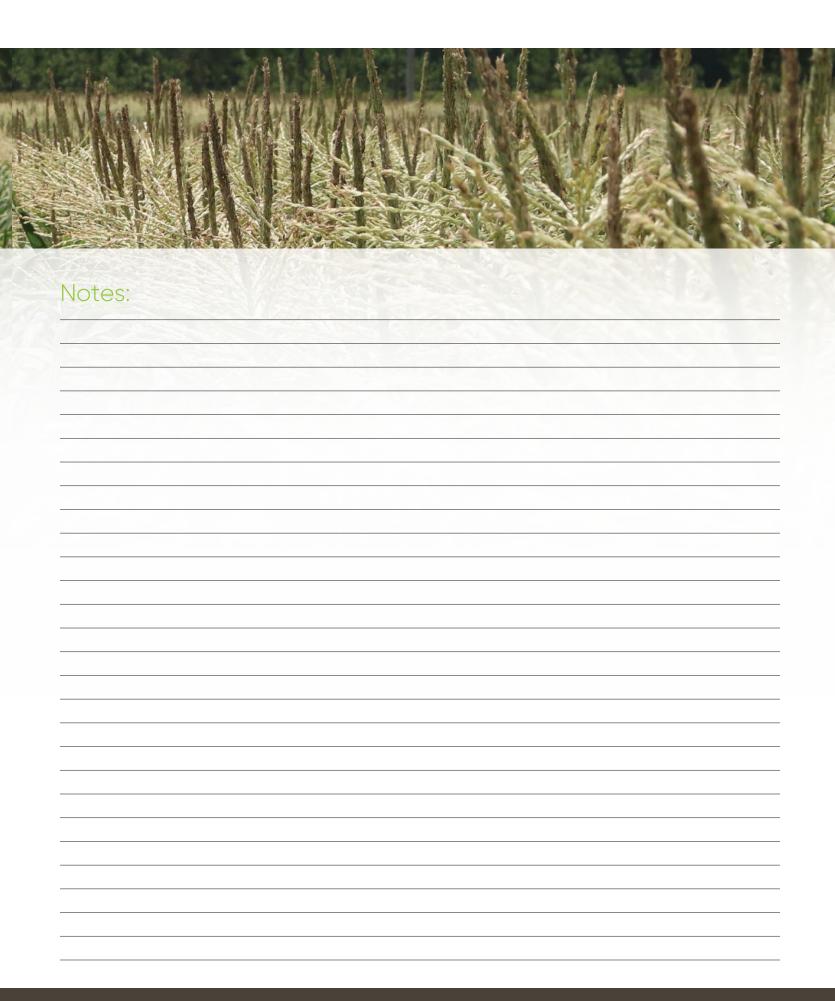


EVALUATION PARAMETERS:

- Ear yield
- Silage yield



WHERE: Burley, Cassia County ID



ROOT DEVELOPMENT

Rootex[™] as a starter on corn for root development CORN



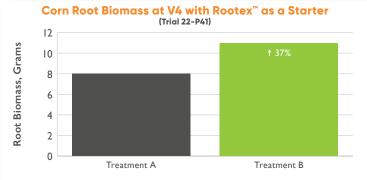
RESEARCH OBJECTIVE

Determine if **Rootex**[™] added to a starter program could improve corn root growth and yield.

KEY OUTCOMES

Corn root biomass increased by 37% at V4 stage with RootexTM and ultimately led to a 6% increase in yield.





BACKGROUND

Sulfur was removed from the treatment with $Rootex^{TM}$ to indicate the ability for $Rootex^{TM}$ to drive root growth and yield in its absence.

THE TRIAL



WHO:
GLC Consulting



WHAT:

Product	Rate	Timing	Application Method
Treatment A:			
Grower Standard	-	-	-
10-34-0	10 gal/acre	At planting	In-furrow
28-0-0-3\$	10 gal/acre	23 DAP	Sidedress
Treatment B:			
10-34-0	10 gal/acre	At planting	In-furrow
Rootex™	2 qt/acre	At planting	In-furrow
28-0-0 (no sulfur)	10 gal/acre	23 DAP	Sidedress

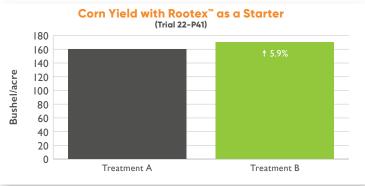


EVALUATION PARAMETERS:

- Root Biomass
- Yield



WHERE: Brooks County, GA

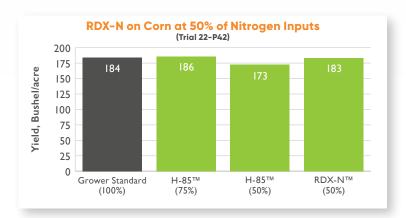


RDX-N[™] at 50% Nitrogen Inputs **Maintains Yield on Corn** CORN

RESEARCH OBJECTIVE

KEY OUTCOMES

compared with the Grower Standard at 100% of nitrogen





BACKGROUND

The local Co-op blended with 10-34-0 to make the 25% and 50% nitrogen reductions while keeping phosphate inputs consistent at planting. Total pounds of nitrogen applied per acre at 100% was 225.

THE TRIAL



GLC Consulting



WHAT:

Product	Rate	Timing	Application Method
Grower Standard	100% nitrogen	At Planting	Soil
Grower Standard H-85™	75% nitrogen I pint/acre	At Planting	Soil
Grower Standard H-85™	50% nitrogen I pint/acre	At Planting	Soil
Grower Standard RDX-N™	50% nitrogen 4 gal/acre	At Planting	Soil



EVALUATION PARAMETERS:



WHERE: Brooks County, GA

10-34-0 reductions of 50%, 75%, 90%, and 100% on corn with RDX-P™

CORN, RAINFED

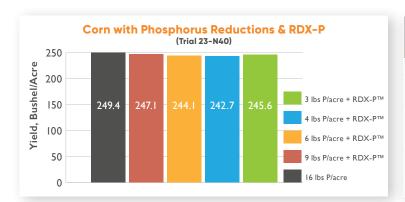


-

Maintain corn yield with reduced phosphate wher RDX-P™ is included in the starter.

KEY OUTCOMES

All phosphorus rate reductions included with RDX-P[™] and the phosphate replaced with RDX-P[™] delivered by 10-34-0 maintained corn yield within 2.7% (or 7 bushels/acre).





BACKGROUND

- 14 A

When 10-34-0 was reduced, UAN-32 was added to balance the nitrogen delivered across treatments.

THE TRIAL



WHO:

Alpha Ag Research



WHAT:

Treatment	gal/acre	lb P/acre	Timing & Application
10-34-0 (100%)	4	15.9	
10-34-0 (50%) + RDX-P™	2 0.34	9.1	All applications were in-furrow at planting. RDX-P was mixed
10-34-0 (25%) + RDX-P™	l 0.53	5.7	with the 10-34-0 and the UAN-32 that was added to
10-34-0 (10%) + RDX-P™	0.4 0.62	3.6	balance the Nitrogen applied across treatments.
RDX-P™ Only	0.96	3.2	



EVALUATION PARAMETERS:

Yield



WHERE: O'Brien County, IA



Rootex[™] replacement of 10-34-0 on corn

CORN, under center pivot

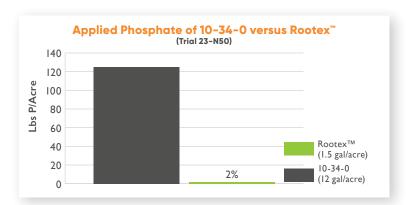


Quantify the ability to replace 10-34-0 with **Rootex**TM on corn.

KEY OUTCOMES

Replacing a single application of 10-34-0 (12 gal/acre) at planting with an application of Rootex at planting (2 qt/acre) and at V6 sidedress (1 gal/acre) increased yield by 12 bushel/acre.

		Grower Standard + 10-34-0	Grower Standard + Rootex™
	Yield, Bu/Ac	247.2	259.1
At Harvest	SEM, Bu/Ac	6.8	3.7
i iai vest	Test Weight, Lb/Bu	60.2	61.2
	Root Weight, g	5.6	8.0
At V5	Plant Height, in	21.0	24.6
	Stem Diameter, mm	9.5	12.9





BACKGROUND

_

The CRO stated, "All the nitrogen with Rootex™ was broadcast, while 13 lbs N with 10-34-0 was applied 2x2. This may have provided an early season N advantage to the 10-34-0 treatment."

THE TRIAL



WHO:



WHAT:

Treatment	N, Ibs/acre	P, Ibs/acre	K, Ibs/acre	Timing & Application
Grower Standard with 10-34-0	239.7	125.7	141.5	10-34-0 was applied at planting
Grower Standard with Rootex	239.4	2.2	141.8	Rootex [™] was applied in-furrow at planting & as a sidedress at V6



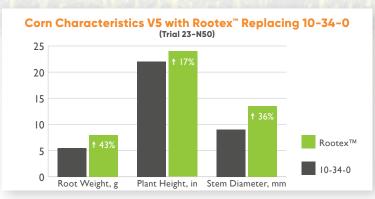
EVALUATION PARAMETERS:

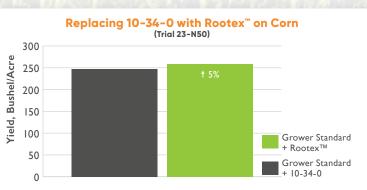
- Yield
- Grain density
- V5 Evaluations



WHERE: Tifton County, GA







Notes:	

RDX-N™ mixed with UAN-32 at 71% of the Grower Standard nitrogen

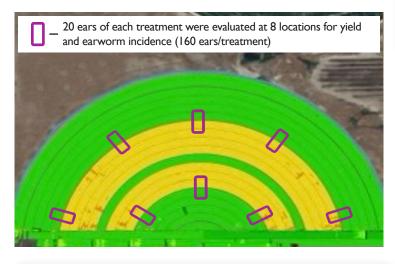
Corn, Center Pivot

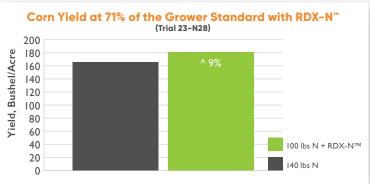
RESEARCH OBJECTIVE

Evaluate yield, pest incidence, and soil characteristics (postharvest) of corn treated with RDX-N™ in a practical farm research setting.

KEY OUTCOMES

The reduction in nitrogen in combination with RDX-N[™] increased yield by 9%, reduced earworm incidence by 7%, and improved 10 soil biological characteristics.







THE TRIAL



WHO:

Grower-Cooperator



WHAT

Treatment	Rate	N lbs/ acre	Timing & Application	Total N
Grower Standard UAN-32 UAN-32		90 50	At planting as 3x3 At sidedress	140
GS (71%) + RDX-N UAN-32 RDX-N UAN-32	0.125	50 50	At planting as 3x3 At planting as 3x3 At sidedress	100

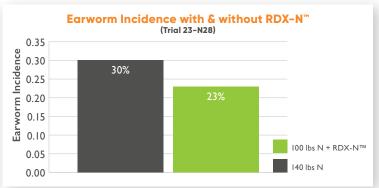
7-ft

EVALUATION PARAMETERS:

- Yield
- Soil Biology
- Earworm Incidence

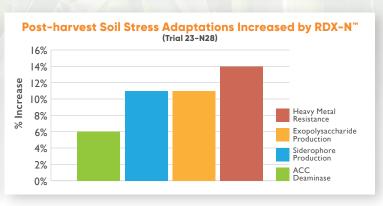


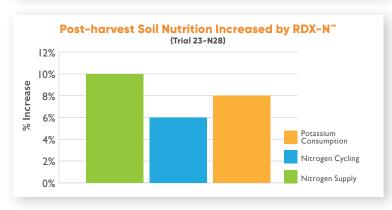
WHERE: Cassia County, ID













Notes:				

Supreme[™] Increases Cotton Turnout, Color and Yield

COTTON



KEY OUTCOMES

With an application of 0.5 lbs./acre of **Supreme**[™] at first



THE TRIAL



WHO:
GLC Consulting LLC – Ag Research



Product	Rate	Timing
Grower Standard	-	-
Supreme™	0.5 lb./acre	First Bloom



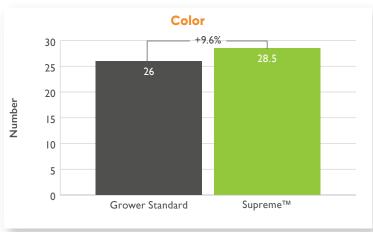
EVALUATION PARAMETERS:

- Yield
- Color
- Turnout
- Lint Uniformity
- Lint Length
- Lint Strength

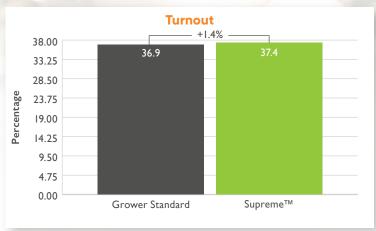


WHERE: Quitman, GA











Notes:			

DEFENSE

Abiotic Stress Relief by OXYCOM® Calcium in Cotton

COTTON, UPLAND

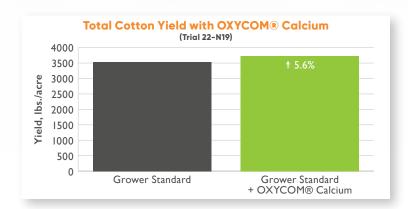


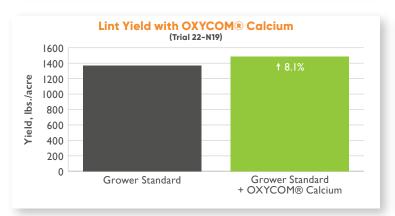
RESEARCH OBJECTIVE

Provide regular foliar applications of OXYCOM® Calcium to combat plant stress and evaluate impacts on cotton yield and quality.

KEY OUTCOMES

Cotton yield increased by almost 6%, lint yield by 8%, and cotton quality increased with OXYCOM® Calcium applications.





THE TRIAL



WHO:
GLC Consulting



WHAT:

Product	Rate	Timing	Application Method
Grower Standard	-	-	-
Grower Standard + OXYCOM® Calcium	0.5 lbs./acre	Ist application at bloom and then every 2 weeks	3 Foliar Applications

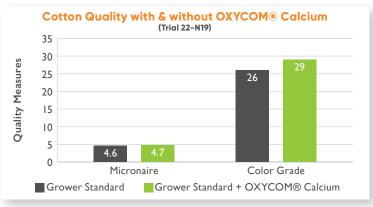


EVALUATION PARAMETERS:

- Total Yield
- Lint Yield & Quality



WHERE: Quitman, Brooks, GA



DEFENSE

Mainstay™ Si Improves Grape Quality in High-Heat Growing Conditions

WINE GRAPES, PINOT NOIR

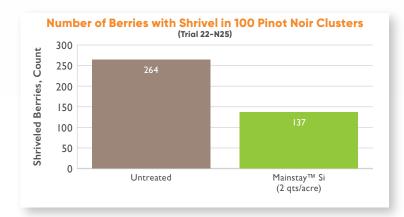


RESEARCH OBJECTIVE

Determine the ability of $Mainstay^{TM}$ Si to help with grape quality among clusters.

KEY OUTCOMES

Mainstay[™] Si reduced raisining by 48%. A total of 265 shriveled grapes were observed among 100 clusters for untreated blocks. Only 137 shriveled grapes were counted among the same amount of clusters in blocks treated with Mainstay[™] Si. Additionally, no Botrytis infections were observed in blocks treated with Mainstay[™] Si. Three grape clusters in untreated blocks exhibited low Botrytis infections.



*Example I of berry raisining. In this cluster, 7 berries would have been counted.

BACKGROUND

Late-season application with harvest in early September. Average daily highs were over 100°F during this month with a high of 108°F. Observations regarding grapes occurred 25 days after the Mainstay™ Si application.

THE TRIAL



WHO

Grower-Cooperator Tech Team



WHAT:

Product	Rate	Timing	Application Method
Untreated	-	-	-
Mainstay™ Si	2 qts/acre	Late Season	Foliar



EVALUATION PARAMETERS:

· Berry shrivel



WHERE: Monterey County, CA





^{*}Example 2 of berry raisining. In this cluster, 2 berries would have been counted.

diKaP™ Improves Lettuce Yield

LETTUCE



The purpose of this trial was to determine if adding diKaP™ to a fungicide would improve lettuce yield.

KEY OUTCOMES

diKaP™ at 3 lbs. per acre improves lettuce yield by 14% over the grower standard and by 9% over the standalone fungicide application.





THE TRIAL



WHO: Redox R&D Team



WHAT:

Treatment	Product	Rate
Treatment I	Grower Standard	-
Treatment 2	Fungicide	
Treatment 3	Fungicide	
rreaument 3	diKaP™	3 lbs./acre



EVALUATION PARAMETERS:

Yield



WHERE: Salinas Valley

NUTRIENT

EFFICIENCY

Rootex[™] Flowable Increases Yield

PEANUTS, VARIETY GA16HO

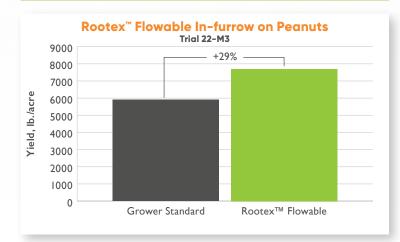


RESEARCH OBJECTIVE

Determine if an in-furrow application of **RootexTM Flowable** will increase plant health and peanut pod yield compared to Grower Standard with no Rootex treatment.

KEY OUTCOMES

Rootex[™] **Flowable** increased peanut yield by 29% with one in-furrow treatment of 0.5 gal./acre.



Treatment grades taken from the official USDA grade report provided by Sanchez Farms Buying Point in Old Town, FL. These grades are from the 6.5 acre test-strip only.

Category	Numeric Grade or Deduction	
Segregation	I	
LSK	4%	
Sound Splits	2%	
Hulls	21%	
Total Kernels	78%	
SMKSR	73%	
Total Damage	0	
Moisture	9.5%	
Total SMK	75%	

BACKGROUND

The project consisted of one large, irrigated field-scale demonstration implemented in Luraville, Florida. The previous planted crop in 2021 was a peanut runner-type variety. It was followed by a wheat cover crop.

THE TRIAL



WHO: 3rd Party



WHAT:

Product	Rate	Application Method
Rootex [™] Flowable	0.5 gal./acre	In-furrow



EVALUATION PARAMETERS:

Yield & Quality



WHERE: Luraville, FL

Photos were taken to document observations during the growing season. Pictured left are untreated peanuts in pivot 3, and right shows peanuts treated with $\mathbf{Rootex}^{\mathsf{TM}}$ Flowable from the trial.



NUTRIENT

EFFICIENCY

Efficient Soluble Calcium Plant Nutrition with Mainstay™ Calcium

PEANUTS, GA-06G



RESEARCH OBJECTIVE

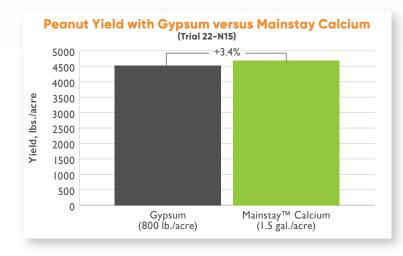
Provide soluble calcium plant nutrition with Mainstay[™] Calcium as an inclusion with standard fungicide and/or micro-nutrient sprays.

KEY OUTCOMES

The Mainstay[™] Calcium program increased peanut yield by 3% over the gypsum program with only 3.4% the amount of calcium applied.

The gypsum program delivered 184 lbs. of calcium/acre whereas Mainstay™ Calcium delivered 7.6 lbs. of calcium/acre.

Under the conditions of this trial, for every dollar spent on **Mainstay™ Calcium** the grower recovers \$3.70 (i.e., \$33.89/acre).



BACKGROUND

Growers are seeking more efficient ways to deliver soluble calcium nutrition. In this trial Mainstay™ Calcium was more efficient with less taken to the field but Mainstay™ Calcium was also delivered with an existing fungicide and micro-nutrient management program for peanuts.

THE TRIAL



WHO: SEAgR



WHAT:

Product	Rate	Timing	Application Method
Mainstay™ Calcium	3 qts./acre	Ist Bloom and 21 days later for a total of 1.5 gallons	Sprayed with fungicide and micro-nutrients



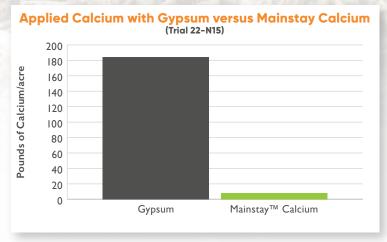
EVALUATION PARAMETERS:

- Yield
- ROI



WHERE: Tift, County, GA





Notes:
Notes.

ROOT

DEVELOPMENT

Rx Platinum™ in-furrow on peanuts

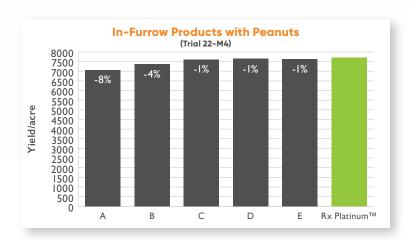
PEANUTS, BAILEY II VARIETY

RESEARCH OBJECTIVE

Evaluate if an in-furrow application of Rx Platinum™ will increase peanut yield compared to various programs with microbial products, micronutrients, biostimulants, and biologicals.

KEY OUTCOMES

Rx Platinum[™] was the highest yielding treatment and increased peanut yield by 8% over the grower standard with one in-furrow treatment of 0.5 gal/acre.





BACKGROUND

Current university guidance does not recommend conventional fertilizer in-furrow on leguminous crops.

THE TRIAL



WHO:

Severn Peanut Company-Wayne Nixon



WHAT:

Product	Rate	Timing	Application Method
A: Grower Standard Microbial (GS)	-		
B: GS + Fungicide	-		
C: GS High Rate + Fungicide	-	at planting	In-Furrow
D: GS + Fungicide + Micronutrient	·		
E: GS + Fungicide + Micro+ 3 Additional	-		
F: GS + Fungicide + Rx Platinum™	0.5 gal/acre		



EVALUATION PARAMETERS:

Yield



WHERE: Beargrass, Martin County, NC

TriPlex™ Zinc Increases Gross Crop Value

DRY PINTO BEANS



KEY OUTCOMES

TriPlex[™] Zinc showed an increase of \$198 in Gross Crop Value over Grower Standard.





BACKGROUND

Evaluating yield increases between TriPlex™ Zinc and comparable competing products.

THE TRIAL





WHAT:

Product	Rate	Timing	Application Method
Competitor	18.4 oz./acre	Once at pre-bloom	Foliar
Zinc Sulfate	0.3 lbs./acre	Once at pre-bloom	Foliar
TriPlex™ Zinc	0.4 lbs/acre	Once at pre-bloom	Foliar



EVALUATION PARAMETERS:

- ROI



WHERE: Nuevo León, Mexico

ABIOTIC STRESS DEFENSE

RootRx[™] on pistachios in year 1 of 3

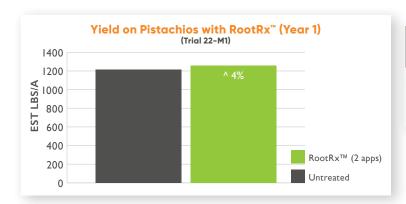
Pistachio



Determine the benefits of $RootRx^{TM}$ on a perennial crop, pistachio, after three years of annual foliar applications during early season (twice) and post-harvest (once).

KEY OUTCOMES

In year I pistachio yield increased by 4% with $RootRx^{TM}$ treatments versus a control.





BACKGROUND

Pistachio trees face many abiotic stressors throughout the growing season and $\mathbf{RootRx}^{\mathsf{TM}}$ aids the crop in maximizing its potential.

THE TRIAL



WHO:

Pacific Ag Research



WHAT:

Treatment	Rate	Timing & Application
Untreated	-	-
RootRx™	I gal/acre	Applied I gal/acre at root flush on April
ROOTKX ''''	.5 gal/acre	20th and .5 gal/acre on May 28th



EVALUATION PARAMETERS:

Yield



WHERE: Five Points, Fresno County, CA

DEFENSE

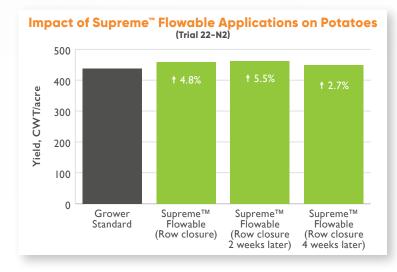
Supreme™ Flowable Once, Twice, Early, or Late Improves Potato Yield

POTATO, RUSSET BURBANK



RESEARCH OBJECTIVE

KEY OUTCOMES



BACKGROUND

Potato varieties that are indeterminate, like Russet Burbank, have additional growth potential after crop set with foliar applications. In this trial, row closure coincided with the 1st white mold application.

THE TRIAL



G2 Ag Research



Product	Rate	Timing	Application Method
	l qt./acre	Row closure	
Supreme™ Flowable		Row closure (2 weeks later)	Foliar, with fungicide sprays
		Row closure (4 weeks later)	3ρ. α/3



EVALUATION PARAMETERS:

Yield



WHERE: Idaho Falls, Bonneville County, ID

EFFICIENCY

TriPlex[™] Micro Shows No Symptoms of Phytotoxicity

GARDEN TOMATO, HEIRLOOM

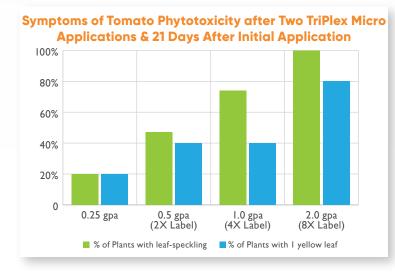


RESEARCH OBJECTIVE

Determine at what rate **TriPlex[™] Micro** caused phytotoxicity that harmed the plant's growth. Treatments were done with the equivalent of 40 gallons of water per acre.

KEY OUTCOMES

Maximum labeled rate of TriPlex[™] Micro was safe for all garden tomato plants tested at different growth stages. No mortality of any tomato plants, including at rates that were 8 times the maximum labeled rate.



BACKGROUND

This trial provides baseline confidence in the safety of TriPlex[™] Micro as a foliar spray directed at tomato plants at different growth stages, including early growth (<30 Days).

THE TRIAL



WHO:

Redox Bio-Nutrients



WHAT

Product	Rate	Timing	Application Method
	0.25 gals./acre (maximum label rate)		
TriPlex™	0.5 gals./acre Two applications		Foliar
	1.0 gals./acre	14 days apart	TOllai
	2.0 gals./acre		



EVALUATION PARAMETERS:

- % of plants with at least one leaf speckled
- % of plants with at least one leaf yellow
- Verdure (0-5 Scale)



WHERE: Burley, ID







Notes:			

(22-R1)

DEFENSE

Increase Ball Speed on Greens with TurfRx Si

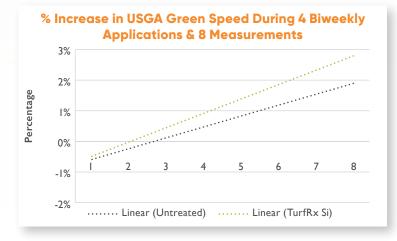
TURF

RESEARCH OBJECTIVE

Determine if TurfRx Si can increase ball speed.

KEY OUTCOMES

Cumulative percent increase in ball speed for TurfRx Si was 2.1% after 4 treatments.





BACKGROUND

This trial provides baseline confidence in the ability of TurfRx Si to increase ball speed on a USGA green. As more applications occurred, gains in speed increased. The green tested was not being rolled during treatments and this trial may indicate minimum speed increase potential.

Future trials will determine what threshold of treatments maximizes gains beyond 4 applications.

THE TRIAL



WHO:

Redox R&D Department



WHAT:

Product	Rate	Timing	Application Method
TurfRx Si	0.5 gals./acre	Biweekly	Foliar



EVALUATION PARAMETERS:

Weekly Stimpmeter Readings



WHERE: Burley, ID

DEFENSE

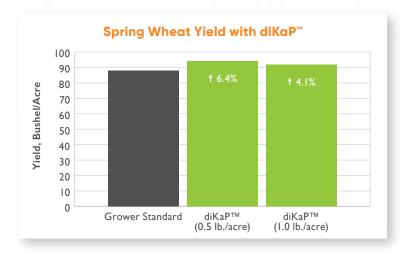
Efficient P & K Delivery with Abiotic Stress Relief of diKaPTM for Spring Wheat

HARD RED



RESEARCH OBJECTIVE

KEY OUTCOMES



BACKGROUND

All plants experience abiotic stress. In this trial weed and insect pressure were minimal, but colder than normal temperatures and above-average rain in May and June created stressful growing conditions.

THE TRIAL





WHAT:

Product	Rate	Timing	Application Method
diKaP™	0.5 lb./acre	Tillering and flowering	Foliar
UINAF ***	I.0 lb./acre	stage	TOIIai



EVALUATION PARAMETERS:

Yield



WHERE: Power County, ID

diKaP™ with herbicide spray on spring wheat

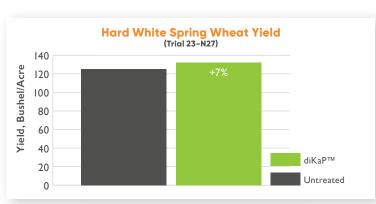
HARD WHITE SPRING WHEAT, Center Pivot

RESEARCH OBJECTIVE

Quantify the impact of a one-time foliar application of $diKaP^{TM}$ applied.

KEY OUTCOMES

A single foliar application of $diKaP^{TM}$ at 1 lb/acre increased spring wheat yield.



	Untreated	diKaP™	
% Protein	13.5%	13.0%	
Weight, lb/bu	59.9	61.8	



BACKGROUND

-

The prior crop was wheat. Wheat prices compared to cost of application during this trial support valuable return on investment.

THE TRIAL



WHO

Grower-cooperator



WHAT:

Treatment	Rate	Timing & Application
Grower Standard		
Grower Standard with diKaP	I lb/acre	Herbicide Spray at Feekes 3.5



EVALUATION PARAMETERS:

- Yield
- Protein
- Test Weight



WHERE: Minidoka County, ID

DEFENSE

Mainstay[™] Si applied with fungicide on wheat

WHEAT, Dryland

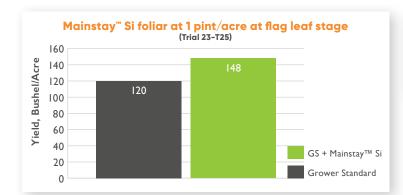


RESEARCH OBJECTIVE

Evaluate the impact on wheat yield of a single application of MainstayTM Si at flag leaf stage.

KEY OUTCOMES

Mainstay[™] Si significantly increased yield when included with the fungicide application - from 120 bushels/acre to 148 bushels/acre - an increase of 28 bushels/acre, or 23%.







BACKGROUND

\//L

Wheat variety was AP 1991 sourced from Harvey's Fertilizer.

THE TRIAL





WHO:

D&T Eason Farms INC



WHAT:

Treatment	Rate	Timing & Application
Grower Standard		Enlies and lighting of flow loof store
Mainstay™ Si	I pint/acre	Foliar applications at flag leaf stage



EVALUATION PARAMETERS:

Yield



WHERE: Edgecombe County, NC

