



2021 Potato Research Timac Agro

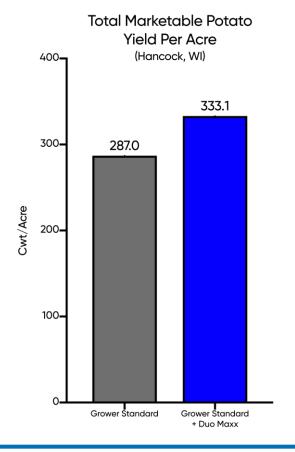
# DUO MAXX WITH LIQUID NITROGEN

#### **OBJECTIVE**

To compare the yield response in white potato variety *Russet Norkotah* by treating liquid nitrogen applied at final hilling with Duo Maxx at 8 oz/acre against the same rate of untreated liquid nitrogen.

## STUDY INFORMATION

Variety	Russet Norkotah
Planting Date	22-April-2020
Harvest Date	15-Sept-2020



SITE LOCATION: Hancock, WI



#### **RESEARCHER:**

University of Wisconsin Hancock Research Station

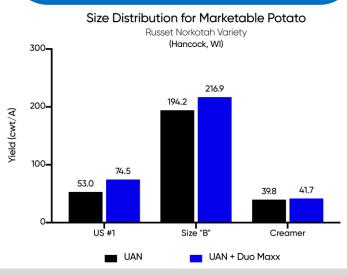
# KEY FINDINGS

+46.1 cwt/ac In marketable yield with Duo Maxx

Gains in Tuber Size, Yield & Quality

+15.9% in Tuber Counts +4% in Average Tuber Size -22.6% in Defects/Culls

# ROI: \$581.25/ac



**Graphs**: Liquid nitrogen treated with Duo Maxx increased yield 46.1 cwt/ac over untreated fertilizer. Revenue was calculated at \$15/cwt for US #1 size, \$10/cwt for Size "B", and \$20/cwt for Creamer. Duo Maxx was calculated at retail cost of \$100/gallon.

Trial ID: RT-21-CM-POT-DM-1

#### **Application Rate**

Standard Rate @ Final Hilling

UAN Treated with Duo Maxx

Treatment

UAN

**APPLICATION** 

Standard Rate @ Final Hilling with 8 oz/A

Timac Agro | R&D

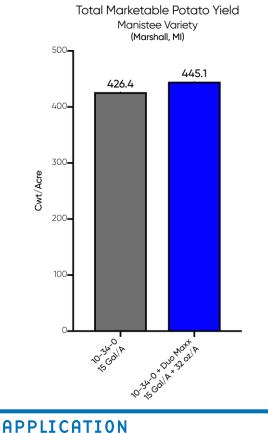
# **DUO MAXX WITH LIQUID FERTILIZER**

#### **OBJECTIVE**

To compare the yield response in chipper potato variety *Manistee* by treating liquid fertilizer blend with Duo Maxx at 32 oz/acre against the same rate of untreated liquid fertilizer applied at planting.

## STUDY INFORMATION

Variety	Manistee		
Population	20,000		
Planting Date	24-Apr-2021		
Harvest Date	12-Sept-2021		



SITE LOCATION: Marshall, MI



#### **RESEARCHER:**

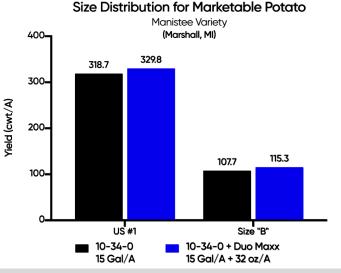
Third Party Contract Research Organization (CRO)

#### **KEY FINDINGS**

+18.7 cwt/ac

In marketable yield with Duo Maxx treated liquid fertilizer

# ROI: \$162.00/ac



**Graphs**: Liquid Fertilizer treated with Duo Maxx increased yield 18.7 cwt/ac over untreated fertilizer. Revenue was calculated at \$10/cwt for chipper variety potato. Duo Maxx was calculated at retail cost of \$100/gallon.

Trial ID: RT-21-GL-POT-DM-1

#### Treatment

10-34-0

10-34-0 w/ Duo Maxx

15 Gallons @ Planting + 32 oz/A

**Application Rate** 

15 Gallons @ Planting

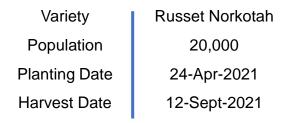
L Timac Agro | R&D

# **DUO MAXX WITH LIQUID FERTILIZER**

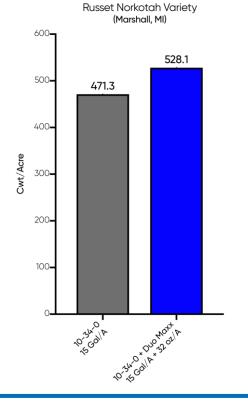
#### **OBJECTIVE**

To compare the yield response in white potato variety *Russet Norkotah* by treating liquid fertilizer blend with Duo Maxx at 32 oz/acre against the same rate of untreated liquid fertilizer applied at planting.

## STUDY INFORMATION



Total Marketable Potato Yield



SITE LOCATION: Marshall, MI



#### **RESEARCHER:**

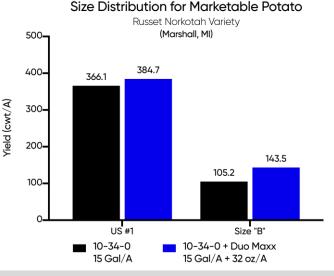
Third Party Contract Research Organization (CRO)

#### **KEY FINDINGS**

+56.8 cwt/ac

In marketable yield with Duo Maxx treated liquid fertilizer

# ROI: \$557.00/ac



**Graphs**: Liquid Fertilizer treated with Duo Maxx increased yield 56.7 cwt/ac over untreated fertilizer. Revenue was calculated at \$15/cwt for US #1 size and \$10/cwt for Size "B" potato. Duo Maxx was calculated at retail cost of \$100/gallon.

Trial ID: RT-21-GL-POT-DM-2

#### APPLICATION

**Application Rate** 

15 Gallons @ Planting

10-34-0 w/ Duo Maxx

Treatment

10-34-0

15 Gallons @ Planting + 32 oz/A

Timac Agro | R&D

#### OBJECTIVE

To compare the yield and size distribution impact in yellow skin variety *Satina* potato for multiple foliar applications of Fertileader Gold during tuber development against grower standard practice. SITE LOCATION Immokalee, FL



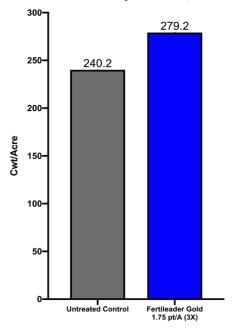
RESEARCHER

Colton Davis Timac Agro USA

STUDY INFORMATION

Variety	Satina
Population	23,868
Planting Date	23-Nov-2020
Harvest Date	15-March-2021





KEY FINDINGS

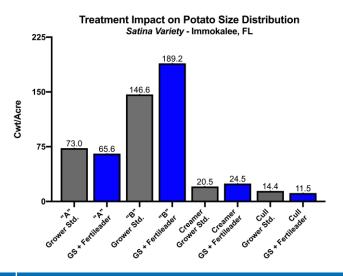
Trial ID: RT-21-SE-POT-FLGO

# +39.04 cwt/ac

In marketable yield with Fertileader Program

Reduced Cull Weight by 19.8%

# ROI: \$1,036.56/ac



**Application Rate** 

N/A

3X @ 1.75 pt/acre, 14-day intervals

APPLICATION

#### Treatment

Grower Standard Practice

Fertileader Gold

Fimac Agro | R&D

#### **OBJECTIVE**

To compare the yield and size distribution impact in red skin variety Thompson potato for multiple foliar applications of Fertileader Gold during tuber development against grower standard practice.

SITE LOCATION Immokalee, FL

Ροτατο

Trial ID: RT-21-SE-POT-FLGO-2

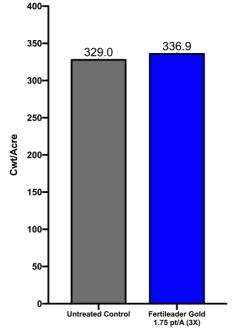
#### RESEARCHER

Colton Davis Timac Agro USA

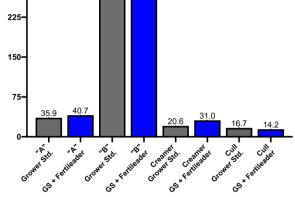
Variety Thompson Population 23,868 Planting Date 16-Nov-2020 Harvest Date 15-March-2021

STUDY INFORMATION

#### **Total Marketable Potato Yield** Thompson Red Variety - Immokalee, FL



**KEY FINDINGS** +7.97 cwt/ac In marketable yield with Fertileader **Reduced Cull Weight by** 14.7% **ROI: \$548.71/ac Treatment Impact on Potato Size Distribution** Thompson Red Variety - Immokalee, FL 300 272.5 265.2



**Application Rate** 

N/A

3X @ 1.75 pt/acre, 14-day intervals

#### APPLICATION

#### Treatment

**Grower Standard Practice** 

Fertileader Gold

imac Agro | R&D

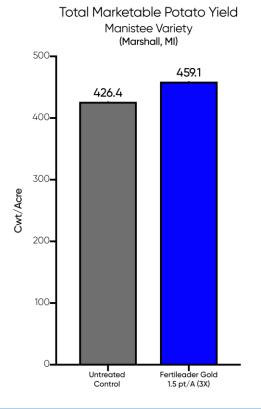
Cwt/Acre

#### **OBJECTIVE**

To compare the yield and size distribution impact in chipper potato variety *Manistee* for multiple foliar applications of Fertileader Gold during tuber development against grower standard practice.

## STUDY INFORMATION

Manistee
20,000
24-Apr-2021
12-Sept-2021



SITE LOCATION: Marshall, MI

#### **RESEARCHER:**

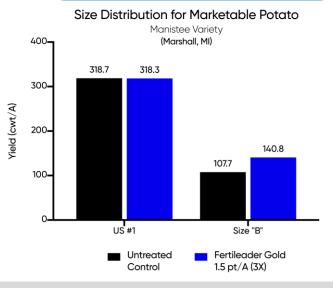
Third Party Contract Research Organization (CRO)

#### **KEY FINDINGS**

+32.7 cwt/ac

In marketable yield with Fertileader Program

# ROI: \$299.86/ac



**Graphs**: Foliar applied treatment of Fertileader Gold during tuber development increased yield 32.7 cwt/ac on Manistee variety potato. Revenue was calculated at \$10/cwt. Fertileader Gold was calculated at retail cost of \$48.25/gallon.

APPLICATION

Trial ID: RT-21-GL-POT-FLGO-1

Treatment	Application Rate	
Grower Standard Practice	N/A	
Fertileader Gold	3X @ 1.5 pt/acre, 14-day intervals	

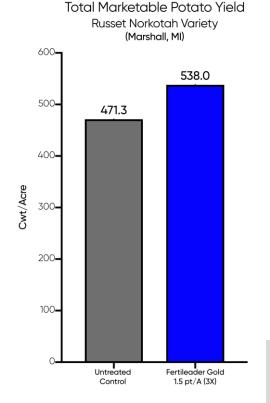


## **OBJECTIVE**

To compare the yield and size distribution impact in white potato variety *Russet Norkotah* potato for multiple foliar applications of Fertileader Gold during tuber development against grower standard practice.

# STUDY INFORMATION

Variety	Russet Norkotah		
Population	20,000		
Planting Date	24-Apr-2021		
Harvest Date	12-Sept-2021		



SITE LOCATION: Marshall, MI



**RESEARCHER:** 

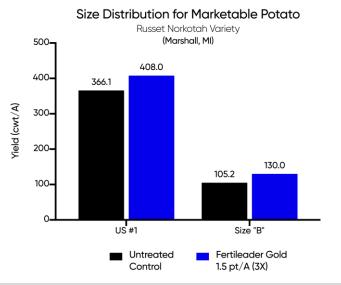
Third Party Contract Research Organization (CRO)

# **KEY FINDINGS**

+66.7 cwt/ac In marketable yield with

Fertileader Program

ROI: \$849.36/ac



**Graphs**: Foliar applied treatment of Fertileader Gold during tuber development increased yield 66.7 cwt/ac on Russet Norkotah variety potato. Revenue was calculated at \$15/cwt for US #1 size and \$10/cwt for Size "B" potato. Fertileader Gold was calculated at retail cost of \$48.25/gallon.

APPLICATION

Trial ID: RT-21-GL-POT-FLGO-2

Treatment	Application Rate		
Grower Standard Practice	N/A		
Fertileader Gold	3X @ 1.5 pt/acre, 14-day intervals		



#### **OBJECTIVE**

To compare the yield and size distribution impact in chipper potato variety *Snowden* for multiple foliar applications of Fertileader Gold during tuber development against grower standard practice.

#### STUDY INFORMATION

Variety	Snowden
Population	20,000
Planting Date	14-May-2021
Harvest Date	29-Sept-2021

Total Marketable Potato Yield Snowden Variety

(Hancock, WI)

SITE LOCATION: Hancock, WI

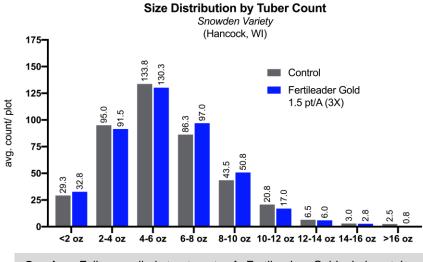
#### **RESEARCHER:**

University of Wisconsin Hancock Research Station

#### **KEY FINDINGS**

+10.7 cwt/ac





**Graphs**: Foliar applied treatment of Fertileader Gold during tuber development increased yield 10.7 cwt/ac on Snowden variety potato. Revenue was calculated at \$10/cwt. Fertileader Gold was calculated at retail cost of \$48.25/gallon.

#### APPLICATION

ate
ay intervals
ay



# WISCONSIN

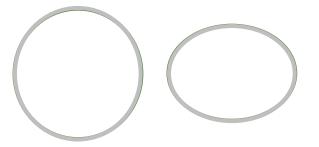
Snowden Chipper Potato

Trial ID: RT-21-CM-POT-FLGO-1

#### VOLUME & AREA DATA

Length x Width

Height x Width



	Width	Length	Height	Shape	S. Area
Control	2.62	2.74	1.99	27146.89	9256.7
Fertileader	2.64	2.72	1.98	27227.86	9206.05
	Cont	rol	FER		R®

#### HUNTER LAB COLOR DATA FROM PHOTO-SPECTROMETRY



	Specific			
	Gravity	L	a	b
Control	1.070	62.160	4.080	23.43
Fertileader	1.075	65.020	3.193	23.22

1

L\* Lightness Value Improved by

4.6%

(a) red/green value reduced by

21.7%

# STEM END SCORING SCALE

		UTC	UTC	UTC	UTC
	2				
85.2% 76.3%	4.9% 9.7%	6.3% 10.4%	3.5% 3.5%	0.0% 0.0%	0.0% 0.0%
0	1	2	3	4	5
				%0 %1 %	62 %3 %4 %5

	<b>%</b> 0	%1	%2	%3	%4	%5
Control	85.2	4.9	6.3	3.5	0.0	0.0
Fertileader	76.3	9.7	10.4	3.5	0.0	0.0



us.timacagro.com | 800-545-5474

#### **OBJECTIVE**

600.

500

400

300

200

100

Cwt/Acre

To compare the yield and size distribution impact in chipper potato variety *Atlantic* for multiple foliar applications of Fertileader Gold during tuber development against grower standard practice.

#### STUDY INFORMATION

452.3

Untreated Control

Atlantic
20,000
18-May-2021
22-Sept-2021

Total Marketable Potato Yield

Atlantic Variety (Antigo, WI) SITE LOCATION: Antigo, WI



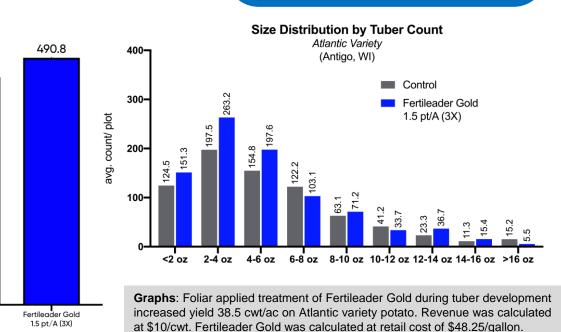
#### **RESEARCHER:**

University of Wisconsin Extension Research Farm

#### **KEY FINDINGS**

+38.5 cwt/ac In marketable yield with Fertileader Program

ROI: \$357.16/ac



#### **APPLICATION**

Treatment	Application Rate
Grower Standard Practice	N/A
Fertileader Gold	3X @ 1.5 pt/acre, 14-day intervals

Timac Agro | R&D

## WISCONSIN

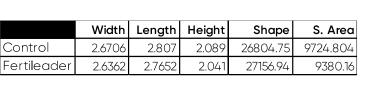
ATLANTIC CHIPPER POTATO

#### Trial ID: RT-21-CM-POT-FLGO-2



Length x Width

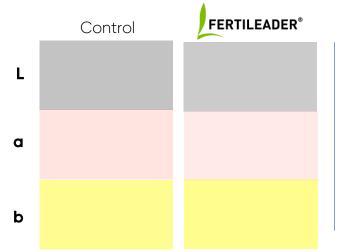
Height x Width



Control



#### HUNTER LAB COLOR DATA FROM PHOTO-SPECTROMETRY



Specific				
	Gravity	L	а	b
Control	1.082	57.11	5.88	21.59
Fertileader	1.090	59.98	5.23	22.48

L\* Lightness Value Improved by

# 5.0%

(a) red/green value reduced by

# 11%

0.0

0.0 0.0

#### STEM END SCORING SCALE

		UTC	UTC		UTC
91.0% 91.7%	0.0% 8.3%	5.6% 0.0%	0.0% 0.0%	2.8% 0.0%	0.0% 0.0%
0		2	3		5
<b>v</b>	÷	<b>~</b>	5	<b>•</b>	_
			Control	%0 %1 %2   91.0 0.0 5.6	%3 %4 %5   0.0 2.8 0.0

Fertileade

91.7

Timac Agro   R&E
------------------

us.timacagro.com | 800-545-5474

0.0

0.0

8.3

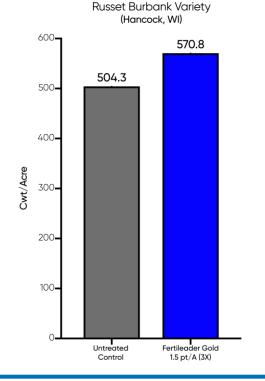
#### **OBJECTIVE**

To compare the yield and size distribution impact in baking/French fry potato variety *Russet Burbank* for multiple foliar applications of Fertileader Gold during tuber development against grower standard practice.

## STUDY INFORMATION

Variety	Russet Burbank		
Population	20,000		
Planting Date	12-May-2021		
Harvest Date	1-Oct-2021		

Total Marketable Potato Yield

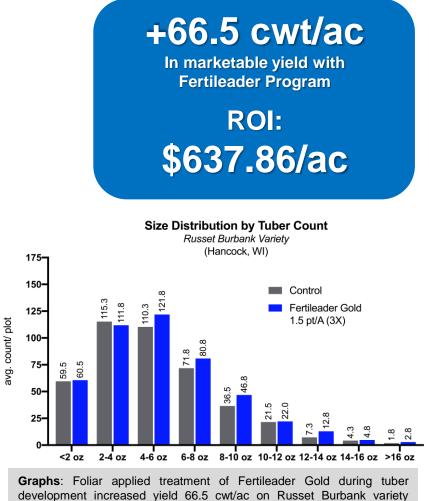


SITE LOCATION: Hancock, WI

#### **RESEARCHER:**

University of Wisconsin Hancock Research Station

#### **KEY FINDINGS**



potato. Revenue was calculated at \$10/cwt. Fertileader Gold was

**APPLICATION** 

Treatment	Application Rate
Grower Standard Practice	N/A
Fertileader Gold	3X @ 1.5 pt/acre, 14-day intervals
Fertileader Gold	5X @ 1.5 pl/acte, 14-day intervals

calculated at retail cost of \$48.25/gallon.

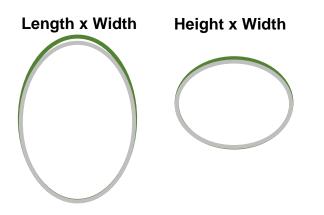


#### WISCONSIN

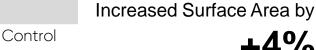
# **RUSSET BURBANK** FRY/BAKING POTATO

Trial ID: RT-21-CM-POT-FLGO-3

#### VOLUME & AREA DATA



	Width	Length	Height	Shape	S. Area
Control	2.37	3.32	1.77	29664.64	9717.89
Fertileader	2.39	3.41	1.86	30893.89	10110.51





#### FRY COLOR DATA FROM PHOTO-SPECTROMETRY



**FERTILEADER**<sup>®</sup>

Timac Agro | R&D

us.timacagro.com | 800-545-5474

