



FREE PHOS²⁴
Trial Booklet

WWW.CULTIVACEGROWTH.COM

FREE PHOS²⁴

“THERE IS NOTICEABLY MORE ROOT FIBER WITH FREE PHOS THAN THE UNTREATED CHECK. IN A YEAR WITH LOW MOISTURE, THIS WILL MAKE A BIG DIFFERENCE.”

-MATT S. | HAMPTON, IOWA



- Keeps phosphate free so it is plant available
- Contains 100% orthophosphate
- Can be applied as a pop-up fertilizer
- Immediately available phosphate for uptake
- Supplies zinc for early germination
- Reduces potential phosphate pollution
- Contains proprietary formulation
- Can be applied to plant foliage
- Low salt index Increases rooting
- Saves money over conventional products
- Stimulates soil biology

This booklet showcases a glimpse of the benefits of Free pHOS 24, CultivAce’s advanced liquid phosphate fertilizer, through its proven success in diverse agricultural settings. In 2023, field trials across the United States, including in Indiana and California, have highlighted Free pHOS 24’s superior performance. This innovative product not only meets but often surpasses standard agricultural practices, underscoring its efficacy and value.

In the Indiana Corn Trial, for example, Free pHOS 24 achieved a notable 5.78% increase in gross return per acre compared to the standard treatment. Meanwhile, in the California Silage Trial, it outperformed the standard by an impressive 8%, demonstrating its effectiveness in different crop environments. These results, echoed in trials from Kentucky to South Dakota, illustrate Free pHOS 24’s consistent ability to enhance yields and profitability.

By opting for Free pHOS 24, farmers are not just choosing a product; they’re investing in a scientifically proven solution that offers cost-effective growth and development for a range of crops and soil types.



To Our Growers



YOUR SUCCESS IS OUR COMMITMENT

GRATITUDE FOR YOUR COMMITMENT AND CONTRIBUTION

At CultivAce, we are driven by a singular mission – to provide growers with top-quality foliar and starter fertilizers that maximize yield and profitability. Our journey began 15 years ago under the visionary leadership of Wayne Sledge, our CEO, who brought over five decades of agricultural expertise to the table. With a deep understanding of farming and fertilizer industry nuances, we are committed to manufacturing products that not only meet the highest quality standards but also ensure significant return on investment for our growers.

This year has been a remarkable journey for CultivAce, and it wouldn't have been possible without the unwavering dedication and invaluable contributions of our trial participants. Your involvement in the 2023 trials has been instrumental in advancing our mission and shaping the future of agriculture. Each of you, hailing from diverse corners of our nation, brought unique insights and invaluable expertise that enriched our collective endeavor. Your commitment to sustainable practices and innovative techniques has not only propelled our research forward but has also set a new standard for excellence in agricultural development. We are immensely grateful for your time, effort, and the knowledge you shared, which have been pivotal in driving significant advancements in our field.

ACKNOWLEDGING OUR DIVERSE PARTICIPANTS

We recognize the broad spectrum of states represented in this year's trials. From the rolling fields of Kentucky to the vast farmlands of Illinois, from the fertile plains of Indiana to the corn belts of Iowa, and from the robust wheat fields of Kansas to the prairies of South Dakota, your collective participation has painted a picture of unity and diversity. This geographical tapestry has not only contributed to the richness of our trials but has also demonstrated the solidarity of farmers nationwide in striving for agricultural innovation and sustainability. Your diverse perspectives and regional expertise have been the cornerstone of this year's success, and for that, we extend our deepest gratitude.

2023 Western Kansas Corn Free Phos 24 Comparison Trial

On this Western Kansas farm, NH₃ was applied to the field during the spring using a Strip-till bar. Planting took place on May 6th, 2023, covering 20 acres with 3 gallons of Free Phos 24 per acre in-furrow. Half of these Free Phos 24 acres also received the seed treatment Tune Up+. An additional 20 acres were planted with 2 gallons of Lumen and 3 gallons of 10-34-0 fertilizer per acre, with half of them also receiving Tune Up+. Throughout the season, all other pre and post-plant nutrition applications remained consistent across treatments. The harvest on October 6th, 2023, revealed intriguing yield results: the field with Free Phos 24 and Tune Up+ yielded 215 bushels per acre, while the acres with just Free Phos 24 yielded 213 bushels

The acres treated with 2 gallons of Lumen and 3 gallons of 10-34-0 fertilizer averaged 190 bushels per acre. In comparison, the acres with 2 gallons of Lumen and 3 gallons of 10-34-0 fertilizer combined with Tune Up+ yielded 187 bushels per acre. Gross returns per acre for Free Phos treatments were \$1075 and \$1065, while for Lumen treatments, they were \$950 and \$935, respectively. These results shed light on the intriguing impact of different treatments on yield and returns.

TRIAL DETAILS

Crop: Corn
Location: Colby, Kansas
Plant Date: 05/06/2023
Harvest Date: 10/06/2023
Tillage: Strip Till
Variety: 1366Q

CHECK 1

2 gal/acre - Lumen
3 gal/acre - 10-34-0

CHECK 2

2 gal/acre - Lumen
3 gal/acre - 10-34-0
Seed Treatment - Tune Up +



Left 3 gal/acre Free Phos 24 | Right - 2 gal/acre Lumen +
3 gal/acre of 10-34-0

GROSS RETURN

Corn Price: \$5

Gross Return Check 1: \$950/acre

Gross Return Check 2: \$935/acre

Gross Return Treated 1: \$1,075/acre

Gross Return Treated 2: \$1,065/acre

Gross Return Check 1 & 2 v. Treated 1 & 2



TREATED 1

3 gal/acre - Free Phos 24 in-furrow at planting

TREATED 2

3 gal/acre - Free Phos 24 in-furrow at planting
Seed Treatment - Tune Up +

AVERAGE YIELD

Check 1 Average Yield: 190 bu/acre

Check 2 Average Yield: 187 bu/acre

Treated 1 Yield: 213 bu/acre

Treated 2 Yield: 215 bu/acre

2023 Eastern Kansas Cost Reduction Corn Trial with Free Phos

In Sedgwick, Kansas, the grower embarked on a trial on April 20, 2023, planting a 10-acre irrigated field with Free Phos 24, applying 3 gallons per acre in-furrow. Additional acres were planted with the standard practice, involving 4.5 gallons of Pro-Germinator, 1.5 gallons of Kalibrate, 1 quart of Micro 500, and 1 pint of Mn EDTA per acre in-furrow, while all other pre-plant and post-plant nutrition remained consistent across treatments.

The harvest on September 19, 2023, revealed an estimated yield of 202.9 for both the grower standard and Free Phos 24 treatments. Remarkably, despite the identical yields, the Free Phos 24 treatment proved to be significantly more cost-effective, utilizing half the total product volume at a lower per acre cost. This trial highlights the potential for substantial savings while maintaining yield consistency.



Grower Standard on Left | Free Phos 24 on Right

TRIAL DETAILS

Crop: Corn
Location: Sedgwick, Kansas
Planting Date: 4/20/2023
Harvest Date: 9/19/2023
Tillage method: No tillage
Variety: DKC 65-95

GROWER STANDARD

4.5 gal/acre - Pro Germinator (in furrow)
1.5 gal/acre - Kalibrate (in furrow)
1 qt/acre - Micro 500 (in furrow)
1 pint Mn EDTA per acre (in furrow)

TREATED

3 gal/acre - Free Phos 24 (in furrow)

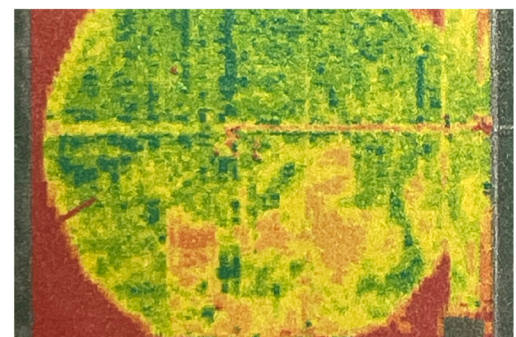
AVERAGE YIELD

Grower Standard Average Yield: 202.9 bu/acre
Free Phos 24 Average Yield: 202.9 bu/acre

GROSS RETURN

Corn Price: \$4
Grower Standard Gross Return: \$1,014.50/acre
Treated Gross Return: \$1,014.50/acre

Gross Return Check v. Free Phos 24



Yield Map of Whole Field

2023 Free Phos 24 Corn Trial in Indiana

This trial was conducted in Montpelier, Indiana. The grower employed two distinct nutrient treatments to evaluate their impact on crop yield. Free Phos 24 was applied at a rate of 3 gallons per acre in alternating strips on May 12th, covering a total of 10 acres in-furrow. Simultaneously, the grower followed a standard practice, applying 4.5 gallons of 6-24-6 fertilizer plus 2 quarts of a biological v over 15 acres in-furrow.

It is important to note that pre and post-plant nutrition remained consistent between these treatments. The field was later harvested on November 4th, revealing noteworthy results. The Free Phos 24 treatment yielded an average of 238 bushels per acre, while the grower's standard approach yielded an average of 225 bushels per acre, **giving a 13 bu/acre improvement in yield**. These findings suggest the potential benefits of utilizing Free Phos 24 in optimizing crop yield under these specific conditions.

TRIAL DETAILS

Crop: Corn
Location: Montpelier, Indiana
Planting Date: 5/15/2023
Harvest Date: 9/04/2023
Tillage method: Vertical Tillage
Variety: Hybrid AV649AM

GROWER STANDARD

15 acres - alternating strips
4.5 gal/acre - 6-26-6
2 qt/acre - biological rhizosphere

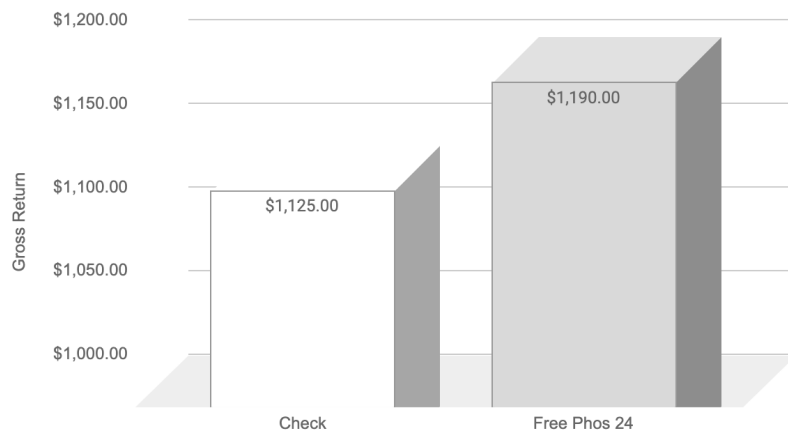
TREATED

10 acres - alternating strips
3 gal/acre - Free Phos 24

AVERAGE YIELD

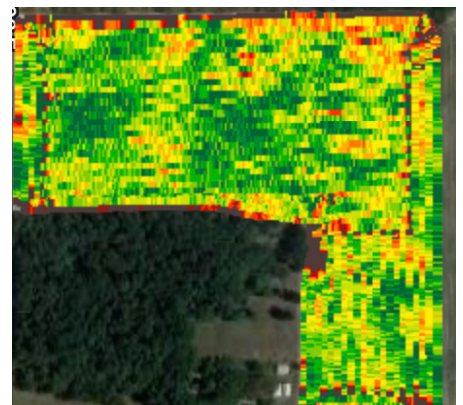
Grower Standard Average Yield: 225 bu/acre
Free Phos 24 Average Yield: 238 bu/acre

Gross Return Check v. Free Phos 24

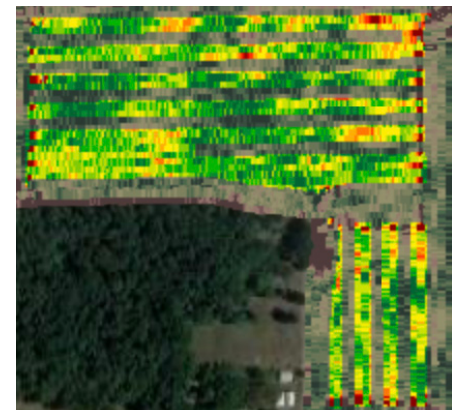


GROSS RETURN

Grower Standard Gross Return: \$1,125/acre
Free Phos 24 Gross Return: \$1,190/acre



Yield Map of Whole Field



Yield Map of Free Phos 24 Treatment

2023 Iowa No Till Corn Trial with Free Phos 2024

The grower planted this field on May 9th. The grower applied 3 gallons of Free Phos 24 per acre in-furrow in strips resulting in a plot size of 16 acres. The other 18 acres of the field received the grower standard treatment of 5 gallons of 6-24-6 per acre in-furrow. All pre and post nutrition applications remained the same between treatments. Upon harvesting October 24th the grower found that the Free Phos 24 treatment resulted in an average yield of 226 bushel per acre while the grower standard resulted in an average yield of 219 per acre. The gross return per acre for the Free Phos 24 treatment was \$1130 per acre while the gross return for the grower standard was \$1095 per acre.

TRIAL DETAILS

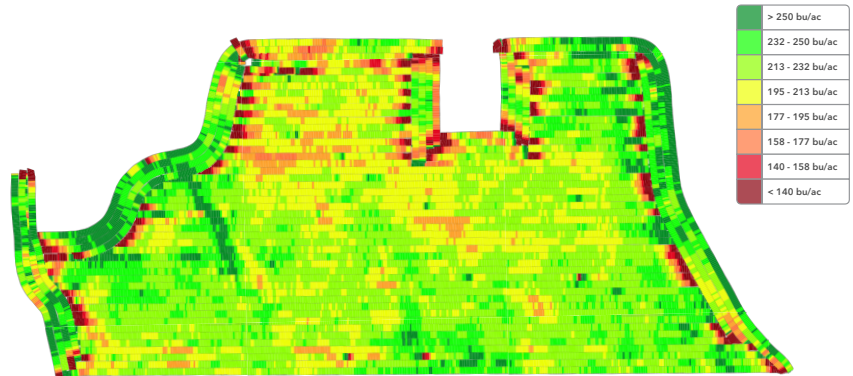
Crop: Corn
Location: Inwood, Iowa
Planting Date: 5/9/2023
Harvest Date: 10/24/2023
Tillage method: Limited Tillage
Variety: P05737V

CHECK

5 gal/acre - 6-24-6 (in-furrow)

TREATED

3 gal/acre - Free Phos 24 (in-furrow)



Yield Map of Whole Field

AVERAGE YIELD

Check Average Yield: 219 bu/acre
Free Phos 24 Average Yield: 226 bu/acre

Gross Return Check v. Free Phos 24



GROSS RETURN

Corn Price: \$5
Check Gross Return: \$1,095/acre
Free Phos 24 Gross Return: \$1,130/acre



Left - 3 gal/acre Free Phos 24 | Right - 5 gal/acre 6-24-6

2023 Ohio Corn Free Phos 24 Trial v. 5-15-5 + B4 + Phenom

FREE PHOS²⁴

In a trial conducted in Washington Courthouse, Ohio, the grower planted DKC59-82 corn on May 17th and implemented alternating passes with different treatments. One pass involved using 3 gallons of Free phos 24 per acre, while the other pass utilized 3 gallons of 5-15-5 plus B4 plus Phenom per acre. A total of 40 acres were planted with Free phos 24, while an additional 100 acres were planted using standard practice. All pre and post-plant nutrition applications were consistent across treatments.

The results showed that Free Phos 24 led to an average yield of 266 bushels per acre, slightly outperforming the standard practice, which yielded 261 bushels per acre. The field's overall average yield was 255 bushels per acre. The gross revenue for the entire field averaged \$1275 per acre. Specifically, the areas treated with the standard practice generated an average of \$1305 per acre, while those treated with Free Phos 24 achieved **a higher gross revenue of \$1330 per acre.**

TRIAL DETAILS

Crop: Corn
Location: Washington Courthouse, Ohio
Plant Date: 5/17/2023
Harvest Date: 10/10/2023
Variety: :DKC59-82

FIELD

Standard Practice Program

CHECK

3 gal/acre - 5-15-5 + B4 + Phenom (in-furrow at planting)

TREATED

3 gal/acre - Free Phos 24 (in-furrow at planting)

AVERAGE YIELD

Field Average Yield: 255 bu/acre

Check Average Yield: 261 bu/acre

Free Phos 24 Yield: 266 bu/acre



Yield Map of Whole Field

Gross Return Field v. Check v. Free Phos 24



GROSS RETURN

Corn Price: \$5

Field Gross Return: \$1,275/acre

Check Gross Return: \$1,305/acre

Free Phos 24 Gross Return: \$1,330/acre



2023 South Dakota Corn Trial Free Phos 24 v. On Target

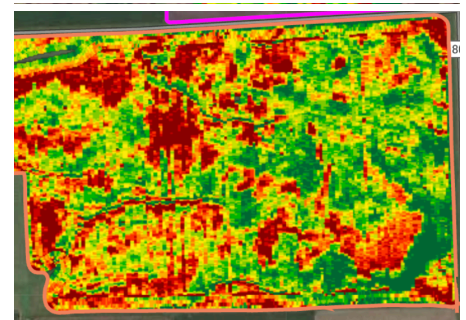
In a side by side corn trial conducted in Platte, South Dakota, the objective was to evaluate the performance of two distinct treatments, Free Phos 24 and On Target, on crop yield. The trial involved the planting of two varieties, B01V22AM and P0404AM, on May 12th, with the harvest occurring on September 16th.

For this study, both treatments were applied with uniformity. All sections of the field received a 2X2 application of 32% nitrogen. Specifically, 40 acres of the field were treated with 3 gallons per acre of Free Phos 24, applied in-furrow, while the remaining portion of the field received an equivalent application rate of 3 gallons per acre of On Target, also applied in-furrow. It's noteworthy that post-fertilizer and herbicide applications were consistent throughout the entire field, ensuring that the only variable considered was the choice of nutrient treatment.

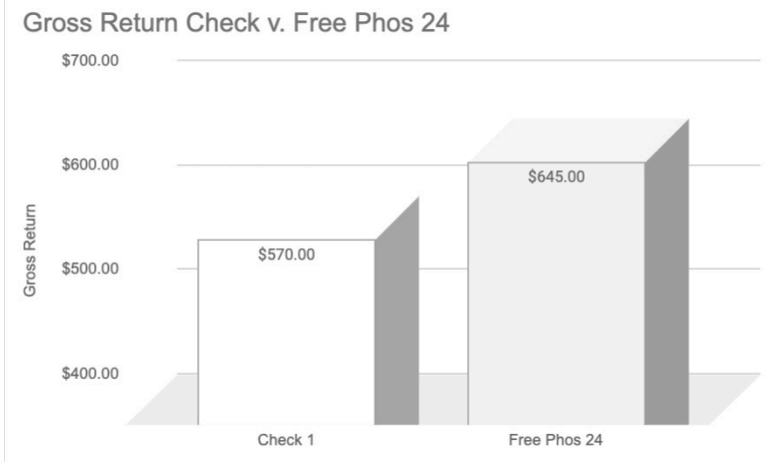
Upon harvest, the results indicated that the Free Phos plot **yielded an average of 129 bushels per acre**, while the On Target treatment yielded an average of 114 bushels per acre. These findings highlight the advantage of the Free Phos 24 treatment, showcasing its potential to enhance crop yield in this specific agricultural context.

TRIAL DETAILS

Crop: Corn
Location: Platte, South Dakota
Plant Date: 5/12/2023
Harvest Date: 9/16/2023
Tillage: Conventional
Varieties: B01V22AM, P0404AM



Yield Map of Whole Field



GROSS RETURN

Silage Price: \$55/ton
Check Gross Return: \$570/acre
Free Phos 24 Gross Return: \$645/acre

CHECK

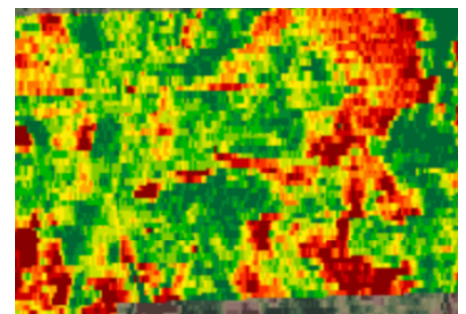
3 gal/acre - On Target - in furrow

TREATED

3 gal/acre - Free Phos 24 - in furrow

AVERAGE YIELD

Check Average Yield: 114 bu/acre
Free Phos 24 Yield: 129 bu/acre



Yield Map of Free Phos 24 Treatment

2021 University of Nebraska Corn Trial with Free Phos 24

FREE PHOS²⁴

The 2021 University of Nebraska Corn Trial, conducted in York County, Nebraska, compared the efficacy of two starter fertilizers: Free Phos 24 (8-24-0-0.25 Zn) and 10-34-0, applied at a rate of 3 gallons per acre.

Planted on May 3rd and harvested on September 23rd, the trial revealed a slight yield advantage for Free Phos 24, producing 276 bushels per acre, while 10-34-0 yielded 272 bushels per acre. This statistically significant difference at a 90% confidence level suggests a modest improvement with Free Phos 24 at a comparative rate.

Free Phos 24 is a unique blend that contains 100% orthophosphate, making it immediately available for plant uptake. This feature is particularly beneficial for early plant growth stages, ensuring a robust start. Additionally, the product is designed to enhance soil biology, which aids in the long-term release of soil nutrients that are otherwise inaccessible to plants. It's suitable for use in a wide range of pH soils and can be applied as a pop-up or foliar fertilizer.

TRIAL DETAILS

Crop: Pioneer® Corn
 Location: York County, Nebraska
 Plant Date: 4/29/2021
 Harvest Date: 10/14/2023
 Tillage: Spring tillage, Row cultivation
 Variety: P1185Q

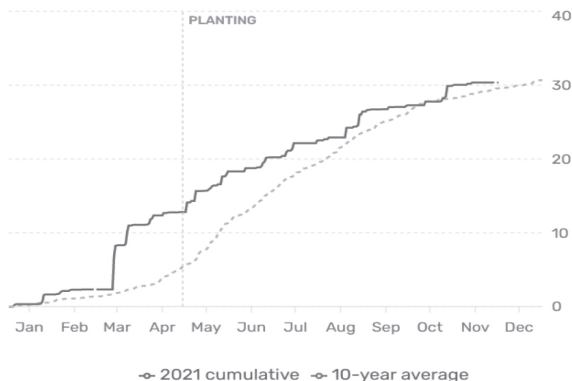
Soil Tests: (October 2020)

pH	BpH	OM LOI %	Nitrate – N ppm N	Mehlich P-III ppm P	Ammonium Acetate (ppm)				CEC me/100g	% Base Saturation				
					K	Ca	Mg	Na		H	K	Ca	Mg	Na
6.6		3.4	5.7	22	390	2023	306	41	13.8	0	7	73	18	1
6.8		3.2	6.2	14	355	2193	317	46	14.7	0	6	74	18	1

CHECK

3 gal/acre - 10-34-0 in-furrow at planting

- 190 lbs/acre of Nitrogen as anhydrous ammonia
- 200 lbs/acre of MESZ®
- 2 qt/acre - Medal® II ATZ at planting (herbicide)
- 5 oz/acre - Cavallo™ at planting (herbicide)
- 8 oz/acre - Lorsban™ (foliar insecticide)
- 15.2 oz/acre - XYWAY™ in furrow (foliar fungicide)



TREATED

3 gal/acre - Free Phos 24 in-furrow at planting

- 190 lbs/acre of Nitrogen as anhydrous ammonia
- 200 lbs/acre of MESZ®
- 2 qt/acre - Medal® II ATZ at planting (herbicide)
- 5 oz/acre - Cavallo™ at planting (herbicide)
- 8 oz/acre - Lorsban™ (foliar insecticide)
- 15.2 oz/acre - XYWAY™ in furrow (foliar fungicide)
- 4 oz/acre - Ethos® XB (seed treatment)
- 4 oz/acre - Battalion™ in furrow (seed treatment)

AVERAGE YIELD

Check Average Yield: 272 bu/acre

Free Phos 24 Yield: 276 bu/acre

	Early Season Stand Count (plants/ac)	Harvest Stand Count (plants/ac)	Stalk Rot (%)	Greensnap (%)	Moisture (%)	Yield (bu/ac)†
10-34-0	31,000 A*	30,300 A	1 A	3 A	16.7 A	272 B
FREE PHOS 24	31,300 A	31,000 A	2 A	1 A	16.7 A	276 A
P-Value	0.745	0.184	0.749	0.338	0.476	0.012

*Values with the same letter are not significantly different at a 90% confidence level.

†Yield values are from cleaned yield monitor data. Bushels per acre corrected to 15.5% moisture.

2023 No-Till Corn Trial in Kentucky with Free Phos 24

In this no-till trial in Bardwell, Kentucky, a field received an application of 6 gallons per acre of 10-34-0, along with 100 pounds per acre of DAP broadcast. On May 23rd, Free Phos 24 was applied foliarly at a rate of 1 gallon per acre, mixed with 10 gallons of water, over 20 acres.

The entire field then received a 37-gallon per acre nitrogen application on June 7th. After harvesting on September 16th and cleaning the yield data to remove anomalies, the average yield was found to be 223 bushels per acre in untreated areas, and 231 bushels per acre where Free Phos 24 was applied.

The corn price of \$5 per bushel, the addition of Free Phos 24 resulted in an enhanced gross return of **\$40 more per acre**. This equates to \$1,155 per acre for the treated areas, compared to \$1,115 for the untreated.



Yield Map of Whole Field

TRIAL DETAILS

Crop: Corn
Location: Bardwell, Kentucky
Planting Date: 5/4/2023
Harvest Date: 9/16/2023
Tillage method: No tillage
Varieties: DKC 6270, DKC 68

CHECK

6 gal/acre - 10-34-0 (2x2)
100# of DAP
37 gal/acre - Nitrogen - 6/7

TREATED

6 gal/acre - 10-34-0 (2x2)
100# of DAP
1 gal/acre - Free Phos 24 (Foliar) - 5/23
37 gal/acre - Nitrogen - 6/7

AVERAGE YIELD

Check Average Yield: 223 bu/acre
Free Phos 24 Average Yield: 231 bu/acre

Gross Return Check v. Free Phos 24



GROSS RETURN

Corn Price: \$5
Check Gross Return: \$1,115/acre
Free Phos 24 Gross Return: \$1,155/acre



Yield Map of Free Phos 24 Treatment

2023 Silage Corn Trial in California Free Phos 24 v. Pro-Germinator

This 20-acre field was planted on May 20th. The entire field received 60 gallons of UN32 side dressed. 10 acres received 5 gallons of Pro-Germinator; the other 10 received 3 gallons of Free Phos 24. The grower harvested on September 15th and each load was weighed to confirm trial results.

The grower reported that the Pro-Germinator acres yielded 28.97 tons of silage per acre. The Free Phos 24 acres yielded 31.3 tons per acre. The grower received a price of \$55 per ton of silage.

The Pro-Germinator plot resulted in a gross profit per acre of \$1,593.95, and the Free Phos 24 plot resulted in a gross profit per acre of \$1,721.50. The total gross return over 10 acres for Pro-Germinator was \$15,939.50, not including treatment cost. The total gross return over 10 acres for Free Phos 24 was \$17,215.00, not including treatment costs. **Free Phos 24 resulted in a gain of \$1,275.50 over 10 acres.**

TRIAL DETAILS

Crop: Corn-Silage
Location: Newman, California
Plant Date: 5/20/2023
Harvest Date: 9/15/2023
Tillage: Conventional
Variety: LG7531

CHECK

60 gal/acre - UN32 (side dressed)
5 gal/acre - Pro Germinator

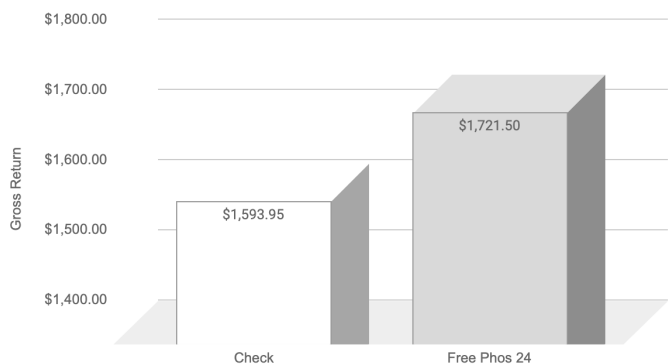
TREATED

60 gal/acre - UN32 (side dressed)
3 gal/acre - Free Phos 24

FREE PHOS²⁴



Gross Return Check v. Free Phos 24



AVERAGE YIELD

Check Average Yield: 28.97 tons/acre
Free Phos 24 Yield: 31.3 tons/acre

GROSS RETURN

Silage Price: \$55/ton
Check Gross Return: \$1,593.95/acre
Free Phos 24 Gross Return: \$1,721.50/acre

2023 Illinois Foliar Application Free Phos 24 Trial on Corn

In Strawn, Illinois, during the 2023 growing season, an 80-acre field was divided in half to assess the impact of a June 2nd foliar application of 1 gallon of Free Phos 24 per acre on corn varieties DKC65-94RIB and DKC64-64RIB. Uniform pre and post-plant nutrition was applied across the entire field.

After harvest on October 4th, the treated section produced an average yield of 233 bushels per acre, outperforming the untreated half, which yielded 229 bushels per acre. These findings highlight the potential benefits of Free Phos 24 for enhancing corn crop yields in similar conditions.

Gross Return Check v Free Phos 24



FREE PHOS²⁴

TRIAL DETAILS

Crop: Corn
Location: Strawn, Illinois
Application Date: 6/2/2023
Harvest Date: 10/4/2023
Tillage method: No tillage
Varieties: DKC65-94RIB, DKC64-64RIB

TREATMENT

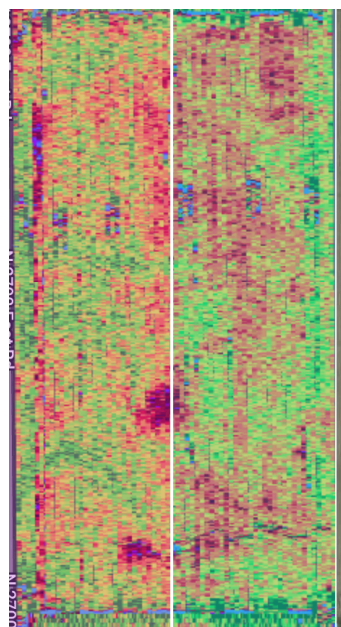
1 gal/acre - Free Phos 24 (Foliar) - 5/23

AVERAGE YIELD

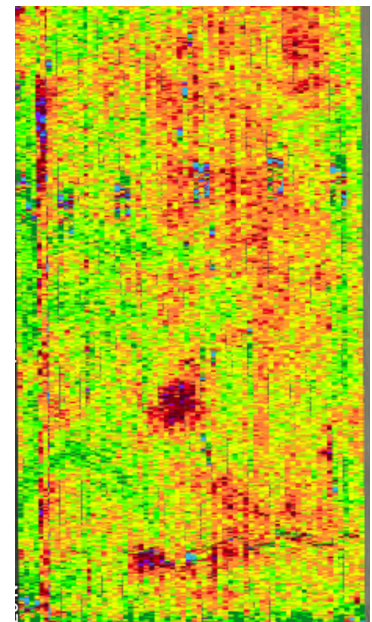
Check Average Yield: 229 bu/acre
Free Phos 24 Average Yield: 233 bu/acre

GROSS RETURN

Corn Price: \$5
Check Gross Return: \$1,145/acre
Free Phos 24 Gross Return: \$1,165/acre



Free Phos 24 on Left | Check on Right



Yield Map of Whole Field

2023 Michigan Corn Trial with Free Phos 8-24-0 v. a 9-24-0-2S

In a Mount Pleasant, Michigan field trial, a grower compared Free Phos 24 with a standard fertilizer (9-24-0-2S) on corn. This trial was planted on May 20th, 2023, and harvested on December 13th.

To ensure accuracy, alternating passes received different treatments, and all other nutritional inputs were consistent across both treatments. Notably, the growing season was impacted by limited rainfall, affecting overall yield. Despite this, the results, observed upon harvesting on December 13th, 2023, were significant.

Free Phos 24-treated areas yielded 137 bushels per acre, outperforming the standard's 131 bushels per acre. This resulted in a higher gross profit of \$685 per acre for Free Phos 24, compared to \$655 for the standard, demonstrating Free Phos 24's effectiveness in enhancing yield and profitability.

TRIAL DETAILS

Location: Mount Pleasant, Michigan
Planting Date: May 20th 2023
Harvest Date: December 13th, 2023
Variety: 4672AM CV

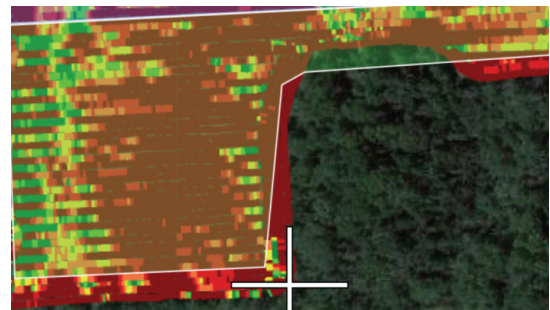
CHECK

3 gal/acre - 9-24-0-2S

TREATED

3 gal/acre - Free Phos 24 (8-24-0)

FREE PHOS²⁴



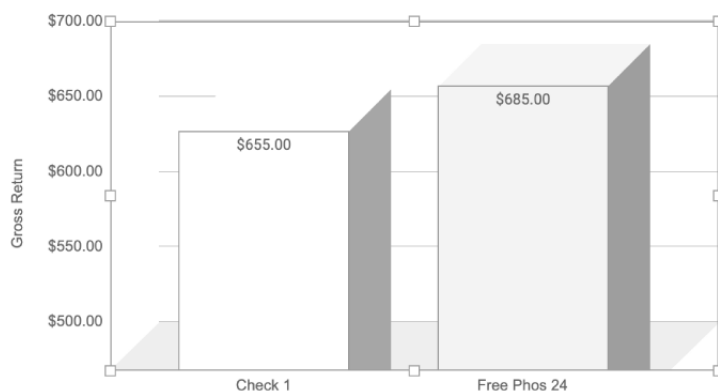
AVERAGE YIELD

Check Average Yield: 131 bu/acre
Free Phos 24 Yield: 137 bu/acre

GROSS RETURN

Check Gross Return: \$655/acre
Free Phos 24 Gross Return: \$685/acre

Gross Return Check v. Free Phos 24



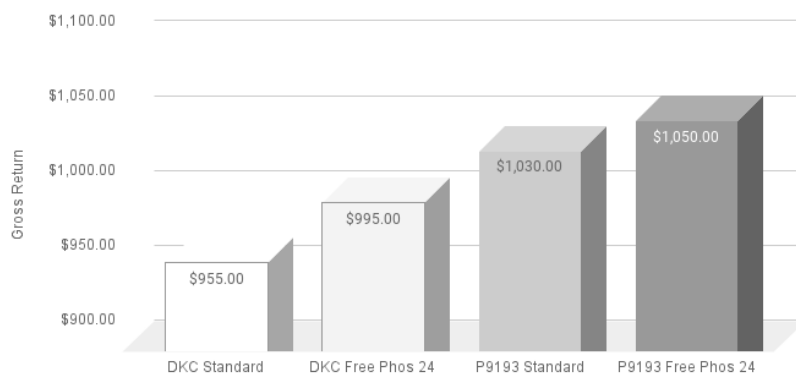
Left is 9-24-0-2s | Right is Free Phos 24

2023 Wisconsin Free Phos 24 v. 10-34-0 Pop Up Trial on Corn

During the growing season in Colfax, Wisconsin, a field trial was conducted to compare the effectiveness of Free Phos 24 with standard grower practices on two corn varieties, DKC 43-75 and P9193. The grower standard included a blend of 3 gallons of 10-34-0 per acre, with additional nutrients, while Free Phos 24 was applied at 3 gallons per acre.

Post-harvest analysis on November 24th revealed that Free Phos 24 led to higher yields in both corn varieties: 199 bushels per acre in DKC 43-75 and 210 bushels per acre in P9193, demonstrating its efficacy in enhancing crop yield with reduced volume application.

Gross Return Check v. Free Phos 24



FREE PHOS²⁴

TRIAL DETAILS

Crop: Corn
Location: Colfax, Wisconsin
Varieties: DKC 43-75, P9193
Planting Date: May 8th, 2023
Harvest Date: November 24th, 2023

CHECK

3 gal/acre - 10-34-0
1 gal/acre - K-Row
1 pt/acre - Humic Acid
1.5 lbs/acre - sugar

TREATED

3 gal/acre - Free Phos 24

AVERAGE YIELD

DKC heck Average Yield: 191 bu/acre
DKC Free Phos 24 Average Yield: 199 bu/acre
P9193 Check Average Yield: 206 bu/acre
P9193 Free Phos 24 Average Yield: 210 bu/acre

GROSS RETURN

Corn Price: \$5
DKC Check Gross Return: \$955/acre
DKC Free Phos 24 Gross Return: \$995/acre
P9193 Check Gross Return: \$1030/acre
P9193 Free Phos 24: \$1050/acre



Left: Grower Standard | Right: Free Phos 24

2023 Wisconsin Foliar Corn Trial with Free Phos 24

This trial in Colfax, Wisconsin involved two corn hybrids, DKC 48-69 and P9624AM, planted on a 10-acre field on May 8th. The grower's standard practice included 3 gallons of 10-34-0 per acre in-furrow, plus additions of K-Row, Zinc EDTA, humic acid, and sugar. Notably, 5 acres received an **extra foliar application of 1 gallon Free Phos 24 per acre**. All other nutrition applications were identical across treatments.

Harvested on November 24th, the results were significant. For DKC 48-769, Free Phos 24 yielded 205 bushels/acre, surpassing the standard's 200. In P9624AM, Free Phos 24 achieved 211 bushels/acre, again outperforming the standard's 206. These findings demonstrate Free Phos 24's potential to enhance yields even with sufficient initial phosphate.

TRIAL DETAILS

Crop: Corn
Location: Colfax, Wisconsin
Planting Date: 5/08/2023
Harvest Date: 11/24/2023
Varieties: DKC 48-69, P9624AM

GROWER STANDARD

10-34-0 - 3 gal/acre in-furrow
K-Row - 1 gal/acre in-furrow
Zinc EDTA - 1 pt/acre in-furrow
Sugar - 1.5 lbs/acre

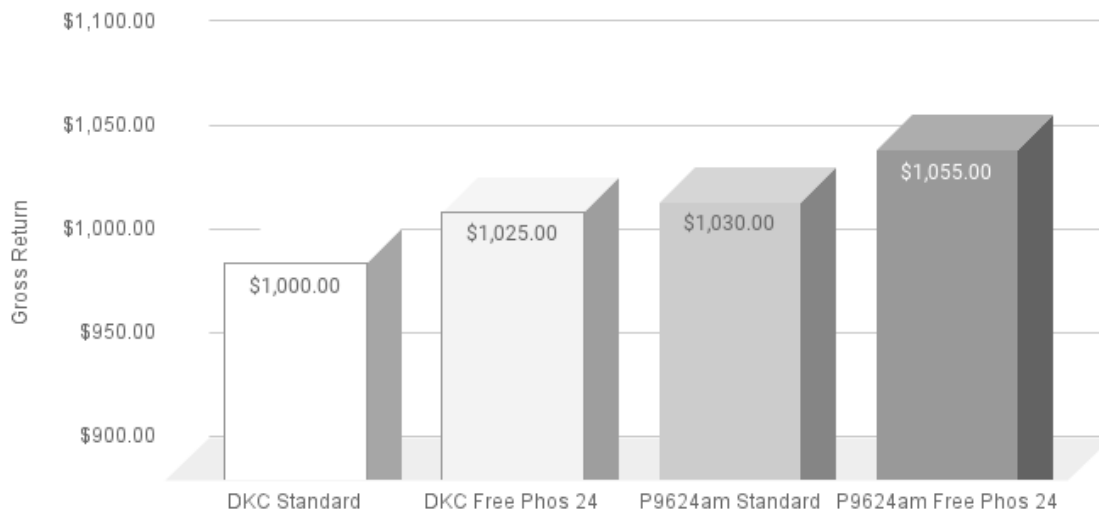
TREATED

10-34-0 - 3 gal/acre - In-furrow
K-Row - 1 gal/acre - In-furrow
Zinc EDTA - 1 pt/acre - In-furrow
Sugar - 1.5 lbs/acre - in-furrow
Free Phos 24 - 1 gal/acre - Foliar

AVERAGE YIELD

DKC Grower Standard Average Yield: 200 bu/acre
DKC Free Phos 24 Average Yield: 205 bu/acre
P9624am Grower Standard Average Yield: 206 bu/acre
P9624am Free Phos 24 Average Yield: 211 bu/acre

2023 Wisconsin Corn Trial | Gross Return Check v. Free Phos 24



GROSS RETURN

DKC Grower Standard Gross Return: \$1,000/acre
DKC Free Phos 24 Gross Return: \$1,025/acre
P9624am Grower Standard Gross Return: \$1,030/acre
P9624am Free Phos 24 Gross Return: \$1,055/acre





CULTIVACE

Get in Touch

(503) 559-6972

17887 SE GRAND ISLAND RD., DAYTON, OR 97114
INFO@CULTIVACEGROWTH.COM | CULTIVACEGROWTH.COM