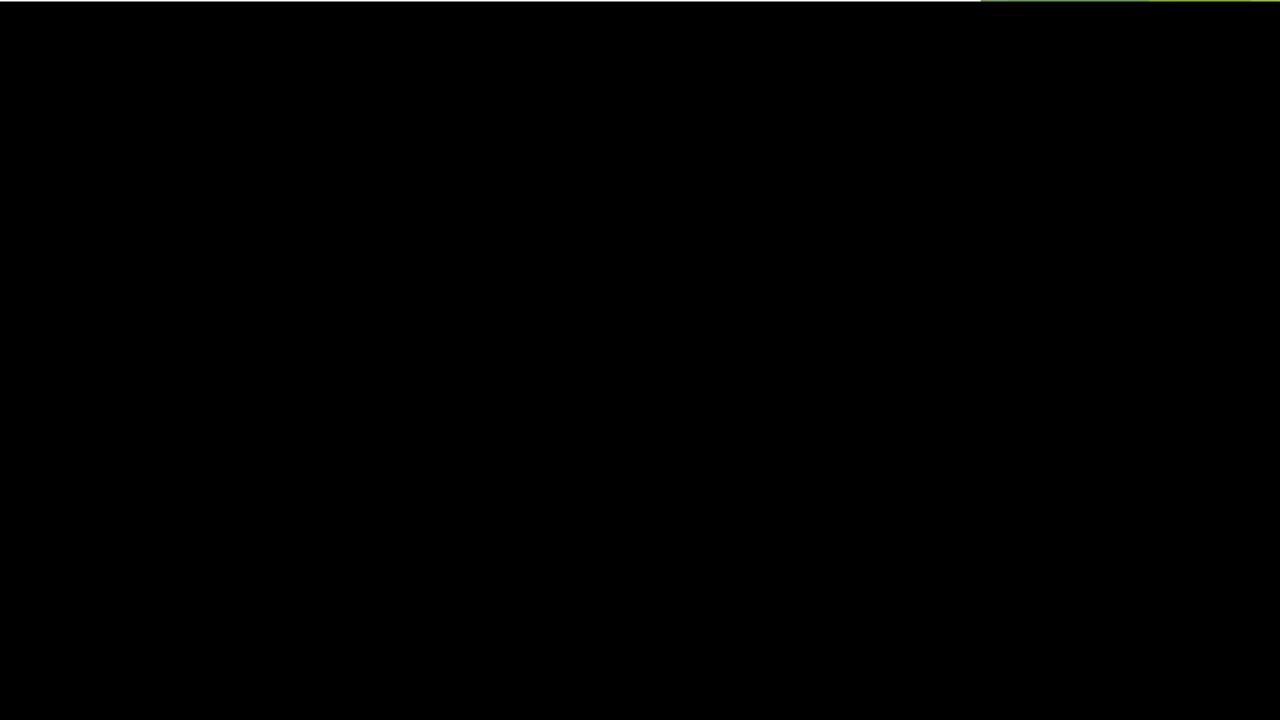




Greeneye's mission is to dramatically reduce chemical usage in agriculture while increasing productivity and profitability for farmers.







Broadcast Spraying

Farmers spray their entire fields uniformly even though approximately 10% of their fields are infested with weeds

Precision Spraying

Greeneye's proprietary precision spraying system transition from wasteful and broadcast to precise spraying of herbicides



Precision Spraying Value Proposition





Retrofit

With a retrofit-first approach, Greeneye system is the only commercial system in North America that is uniquely designed to integrate to any commercial sprayer with seamless integration, relevant for all spraying applications.

Dual-line

Retrofit your sprayer with our proprietary dual-line system to precisely spray weeds with non-residual herbicides from the precision line, while simultaneously broadcasting residual herbicides to ensure the ultimate weed control.





Cameras

24 High-resolution cameras are scanning more than 5,500 frames every second.

GPUs

It takes only 150 milliseconds from detecting the weed, classifying it down to the species level, triggering the right nozzle, and precisely spraying it. All done in real-time by 12 rugged graphic processing units.





PWM

Individually control 144 nozzles with our proprietary 100Hz PWM system.
Providing the only plant-level spraying precision in the industry.



Artificial intelligence

Greeneye utilizes artificial intelligence, deep learning technology and a proprietary datasets of millions of labeled images to identify weeds in crop down to the species level with unparalleled accuracy.



Savings & Profitability

Reduce an average of 88% of non-residual herbicides by precisely spraying only the weeds.

With nozzle spacing of 10 inches we provide the industry most precise spraying resolution which ensures plant-level treatment and the highest savings on crop inputs.

Reduce crop damage

By spraying just the weeds in the field with our unique plant-level precision, you can almost entirely eliminate the unnecessary spraying of your crop, reducing crop damage and improving your productivity.



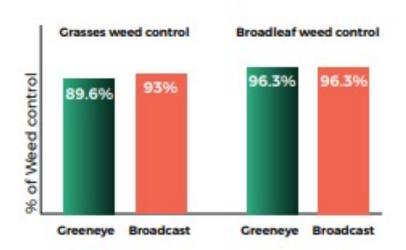
Efficacy Field trial

Greeneye precision spraying system vs. Broadcast spraying

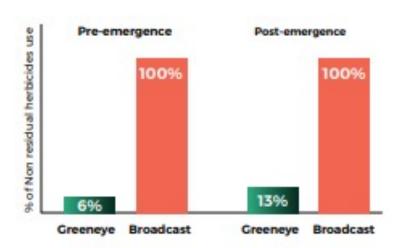
Conclusions:

- Spraying with Greeneye dual-tank reduced 94% of the non-residual herbicides on pre-emergence.
- Spraying with Greeneye dual-tank reduced 87% of the non-residual herbicides on post-emergence.
- Weed control on broadleaf was identical (96.3%) between broadcast treatment to Greeneye.
- Weed control on grass was slightly better with broadcast treatment with 93% compared to Greeneye 89.6%.
- With broadcast treatment the cost of the program is \$105.8/acre compared to Greeneye cost of \$40.6/acre.
 Greeneye is cheaper by \$65.1/acre.

Efficacy



Non residual herbicides use





Greeneye plot 21 days after post emergence spraying



Untreated plot 21 days after post emergence spraying



Broadcast plot 21 days after post emergence spraying (Crop damage caused by dicamba was observed)

Avg. of 3 repetitions

[&]quot;Control rate was observed 21 days after post emergence spraying

^{***} The trial was conducted by the University of Nebraska supervised by Prof. Amit 1. 3hala



ROI Analysis

Business model that suits every customer

Key Figures					
Сгор	Corn				
Farm Size	4,000 acres				
Herbicide costs per acre	\$55.5 / acre				
Greeneye's savings per acre	\$28.2 / acre				
Total herbicides cost	\$222,000				
Total savings	\$112,800				

Model 1 - Capital Equipment						
Upfront cost	\$195,000					
Annual savings	\$112,800					
Annual subscription	-					
ROI (years)	1.7					
Total cost - 5 years	\$195,000					
Net savings - 5 years	\$369,000					
Total cost - 10 years	\$195,000					
Net savings - 10 years	\$933,000					

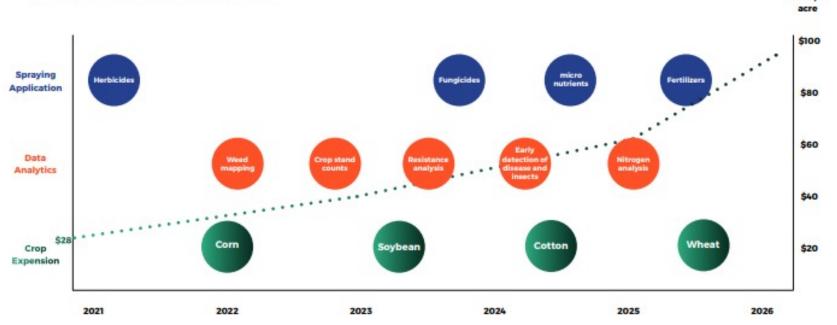
Model 2 - Annual Subscription						
Installation fee	\$20,000					
Annual savings	\$112,800					
Annual subscription	\$56,000					
ROI (years)	0.7					
Total cost - 5 years	\$300,000					
Net savings - 5 years	\$264,000					
Total cost - 10 years	\$580,000					
Net savings - 10 years	\$548,000					



The Bigger Mission - Treating the field at the plant level

Precision spraying of herbicides is only the first step. Value Proposition Expansion:

- 1. Precision spraying of additional chemical applications
- 2. Collecting & analyzing data from the field
- 3. Crop and market expansion



Greeneye Advantages

- Save an Average of 88% on contact herbicides
- ► NO FEES
- Capable of Spraying 24 hours a day
- Less fills
- Reduced drift
- Increased Yields



Central Tire Inflation Systems

www.ptg.info



CTIS – Have you ever heard of it?







Who We Are – History of PTG



- Offer CTIS (Design, Production, Sales)
- One of the market leaders worldwide
- Neuss, Germany (near Dusseldorf/Cologne)
- Distribution and service network in **Europe and North America**
- Certified according ISO 9001:2015 (2008)
- Over 30 years of experience
- 50+ employees (January 2024)
- Acquired by Michelin in 2018































Why Adapt Tire Pressure?





23 psi

2390 cm² / 370 in²

ROAD-PRESSURE

- Reduced fuel consumption (10% and more)
- Less tire wear (up to 20%)
- Less tire damage
- High load capacity at high speeds
- · High driving stability / safety on the road



COSTS

SOIL

PRODUCTIVITY



7.3 psi

4190 cm² / 650 in²

FIELD-PRESSURE

- Reduced ground pressure / compaction
 - Reduced lane depth
 - Reduced rolling resistance
 - Significant increase in traction
 - Increased yields

Ideal Applications









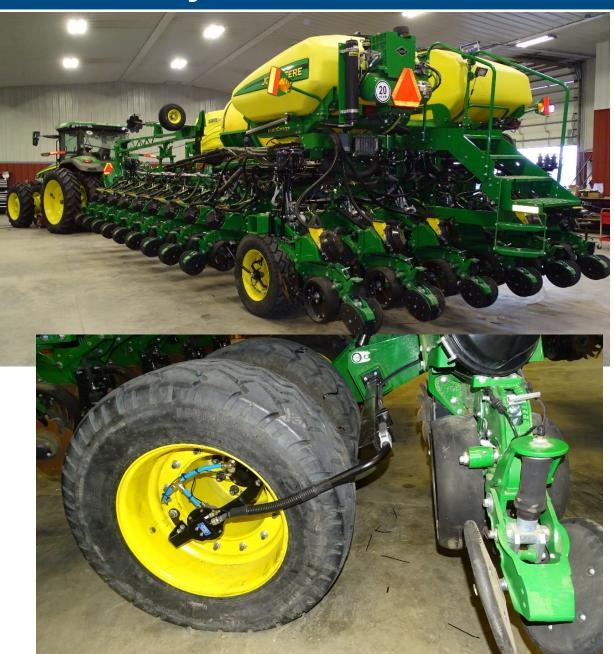






Planter-systems – John Deere Solutions



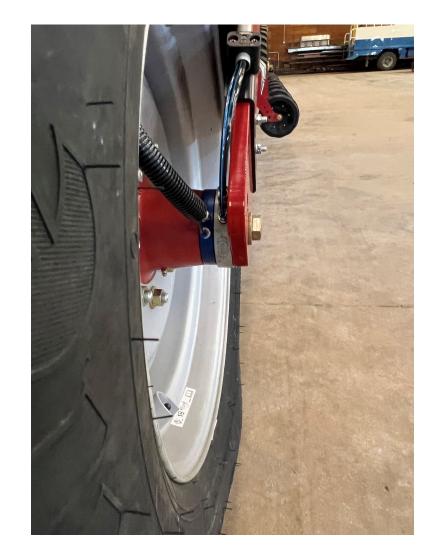




Planter-systems – Case IH Solutions







CTIS and Planter – Visual Comparison in Field



Standard Pressure Tractor Rears – 35 PSI Planter Mains – 70 PSI



CTIS Enabled Field Pressure Tractor Rears – 9 PSI Planter Mains – 24 PSI



CTIS and Planter – Visual Comparison in Field



Standard Pressure
Tractor Rears – 30 PSI / 2.1 bar
Planter Mains – 61 PSI / 4.2 bar



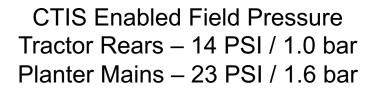
CTIS Enabled Field Pressure Tractor Rears – 14 PSI / 1.0 bar Planter Mains – 23 PSI / 1.6 bar



CTIS and Planter - Water Infiltration



Standard Pressure
Tractor Rears – 30 PSI / 2.1 bar
Planter Mains – 61 PSI / 4.2 bar







Adjusted Tire Pressure - physics



HARVESTERS & FLOATERS

CEREXBIB® 2

Tire specifications and pressure table. Load per tire in lbs.*

Rim Size (inch) Description 30 VF 520/85 R30 CFO+ 172A8 TL											MSPN (CAI) 86907 (188276)				
Section Width	Overall Diam. (in.)	Loaded Radius (in.)	Roll Circun		Recommen Rim	ded	Acceptable Rims		Min. D Triple Spa				Tread depth (32nd in.)		
20.6	63.9	27.9	188	3.9	W16L					26.9		114.9		58	
Psi	17	20	23	25	26	28	29	30	32	33	35	36	38	39	41
6 mph Cyc	12930	14430	15930	16225	16525	1681	10 17110	17405	17690	17990	18275	18815	19355	1988	5 20425
10 mph Cyc	11795	13160	14530	14795	15000	150	15595	15850	16125	16390	16655	17150	17650	1813	5 18630
25 mph	8820	9790	10750	11000	11265	1152	20 11775	12025	12280	12555	12785	13060	13340	1361	5 13890

69

*IMPORTANT:

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables. Technical data is subject to change without prior notice.

- · When using single tire configuration:
- add 6 psi for use on slopes of more than 20%
- add 6 psi for intense road use exceeding 50%

- . 10 mph Cyc: Harvesting work with cyclic loads at 10 mph.
- CFO+: Cyclic Field Operation generating a bonus for cyclic loads in the field at 6 mph (1 mile maximum distance fully loaded).
- NRO (Narrow Rim Option): Add 3 psi to the calculated pressure to make up for the loss in volume of the narrower rim.





The PTG CTI-System





Additional Compressor

- · Fast inflation time
- Fully automated



Foldable front line

- For long road transit or narrow places
- Front line can be folded on mudguard
- Avoid any extra width on the machine





Electronic Reg. Valve

- Mechanical and Electronic Safety Features
- Incredibly precise pressure control



Digital or ISOBUS control



Internal rotary union

- No external line on rear axle
- Maintenance free,
- Last more than 10.000 tractor hours



Automatic tire valve

- Only open during inflation/deflation
- Safe use: no deflation due to leaks
- Fast air flow for fast deflation

35

PTG Solutions for OEs









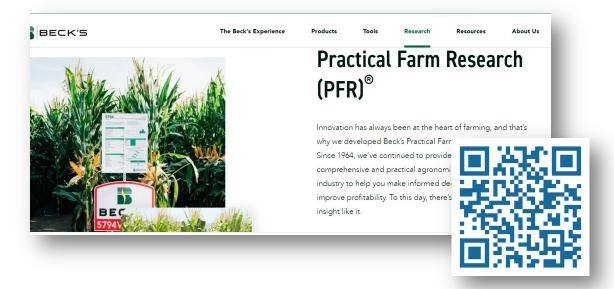




Studies / product videos



















PRODUCTIVITY



COSTS



Sean Higgins

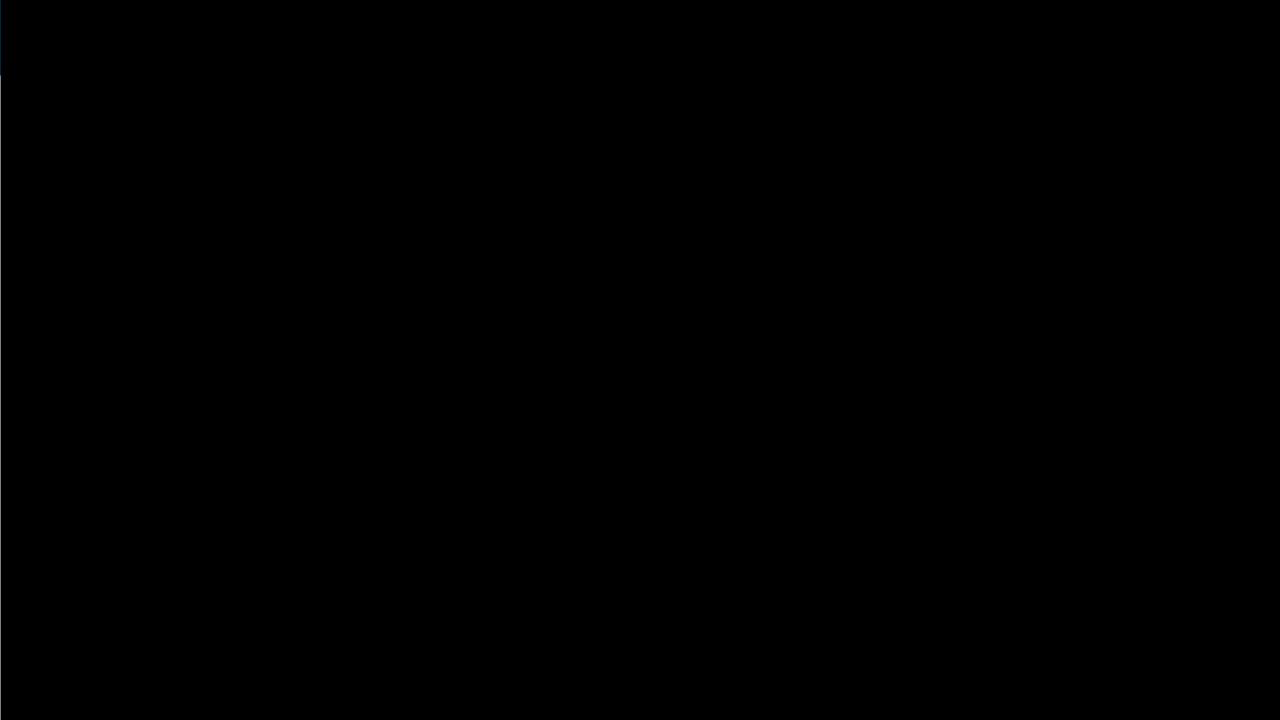
PTG Business Development Manager NA Michelin North America

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Thank you!









Co-Sponsored by No-Till Farmer and These Leading No-Till Suppliers:































