Multi-Genetic Planting

Jason Webster
Beck's Hybrids Practical Farm Research
Innovation Lead

BECK'S

Multi-Genetic Planting

- ***What is it?***
  - Precision Hybrid Placement
    - Place the right corn hybrid for each acre
  - Management Zone Creation
    - Allowing offensive hybrids to flourish in HP soils
    - Enabling defensive hybrids to “hold” yield in LP soils

BECK'S

Multi-Genetic Planting

Beck's Multi-Genetic Planting Recap

- 2011 Idea was born to create a multi-hybrid planter project
- 2012 First full planting season
  - Kinze 8/15 planter converted for multi-hybrid twin row transitions
- 2013 Second full planting season
  - Additional Kinze planter added for multi-hybrid planting in IL
  - Great Plains twin row planter added in IL
  - 1st Center Fill Planter Planter for multi-hybrid planting
- 2014 Third full planting season
  - (2) Kinze 4900 dual meter **single row** multi-hybrid planters
  - (2) Great Plains Twin Row multi-hybrid planters
  - Precision Planting Dual multi-hybrid meter

BECK'S


Trimble


KINZE
BECK'S

Contact:
Brooke Baxley
Karwoski & Courage Public Relations
b.baxley@creativepr.com
612-342-9817

FOR IMMEDIATE RELEASE

Kinze Announces the World's First Electric Multi-Hybrid Concept Planter

Technology allows farmers to change the seed hybrid automatically

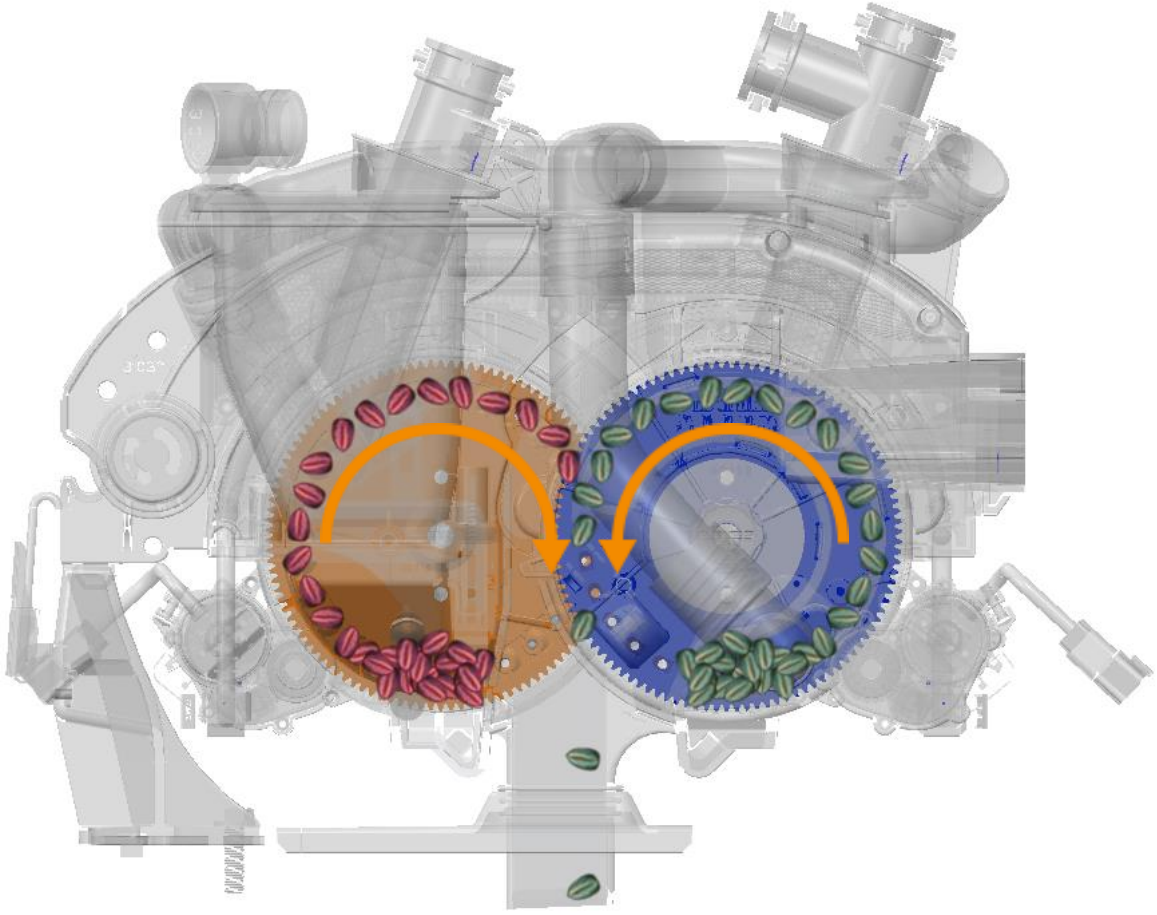
WILLIAMSBURG, Iowa (Dec. 10, 2013) – In order to help farmers optimize their seed hybrids and increase their yields, Kinze® Manufacturing, Inc. announces the world's first electric multi-hybrid concept planter. Multi-hybrid technology provides farmers with the ability to change the seed hybrid they are planting automatically as the planter moves through the field.


KINZE
KINZE 4900

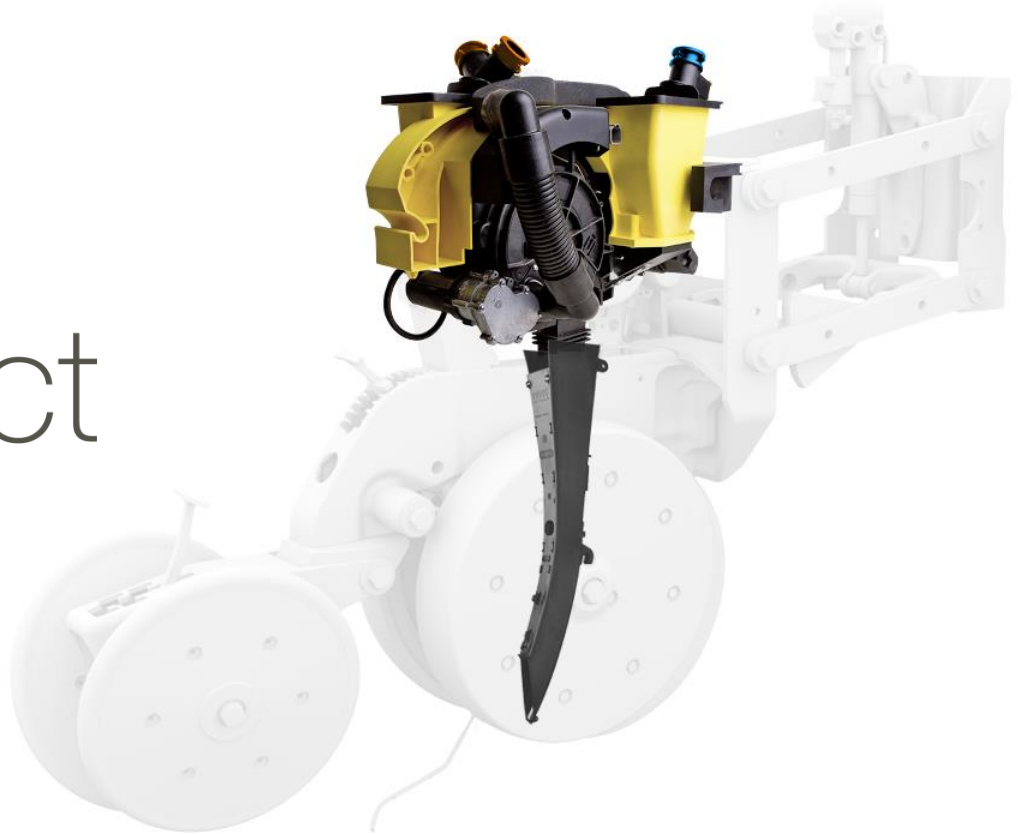
New 4000 Series Meter

- New patent pending electric drive
- 99% Accuracy
- Planting Speeds up to 8 MPH
- Infinite population rates

FarmSmart



vSet® Select



www.precisionplanting.com/#products/fieldview/

The central brain, sensors, and controller

20/20 SeedSense

+ Data portability, HD mapping, and advanced data handling

FieldView

+ Remote access across devices, and web-based planter management

FieldView Plus

FieldView

The Details | Field HD | Video | Connect | View Offers | Support

YOUR DATA PLATFORM EVOLVES

App Based Deployment

FieldView is iPad-based and easily updated. New features and capabilities are consistently released and instantly available on your device — this product doesn't get the chance to become outdated.

FieldView is designed for broad compatibility and all of our products are purpose-built for integration. Once you're in, you're in.

FAQ

What is the required iPad® tablet configuration, including data plan options?

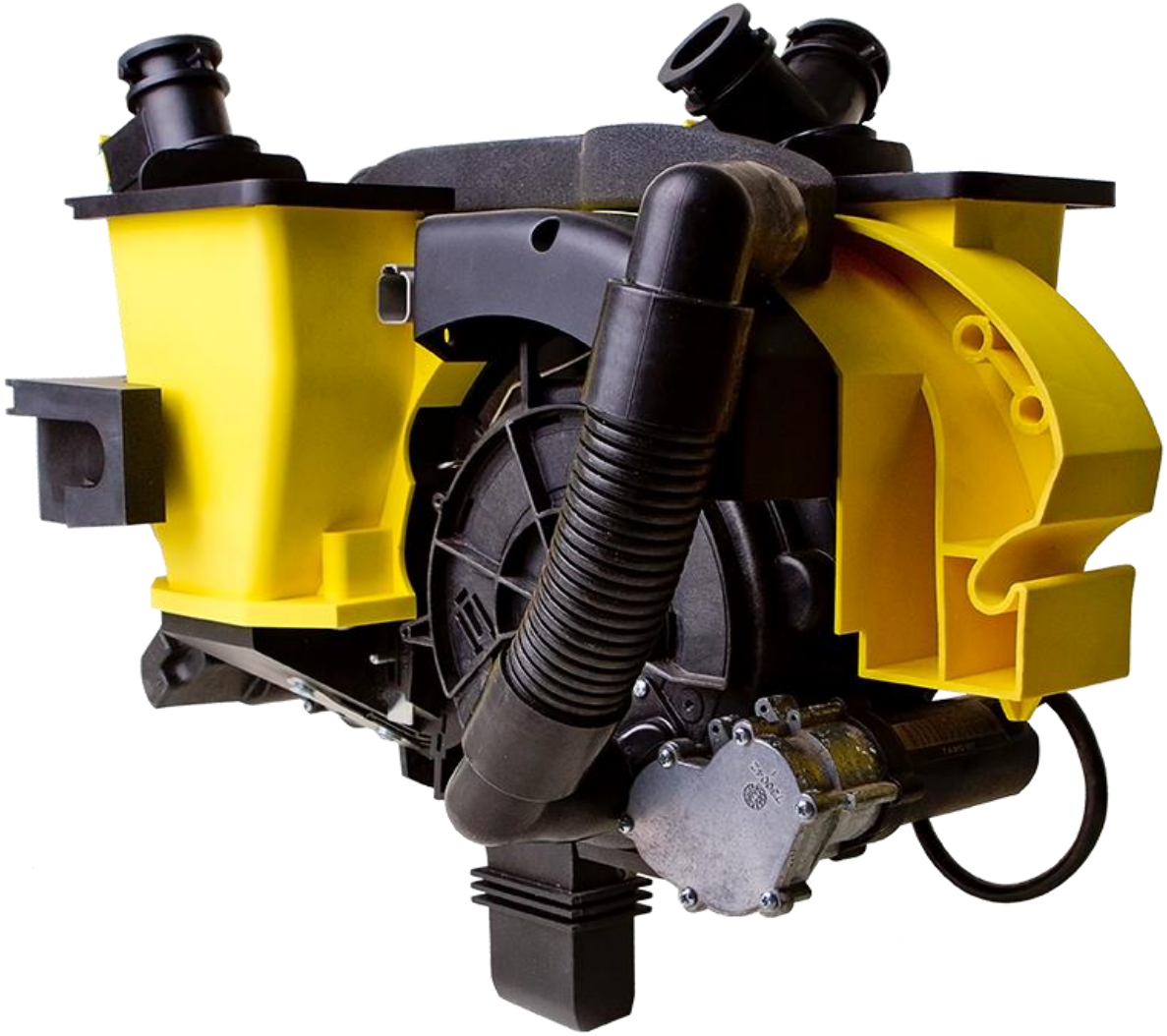
How many acres of mapping can be stored on a 32GB iPad tablet?

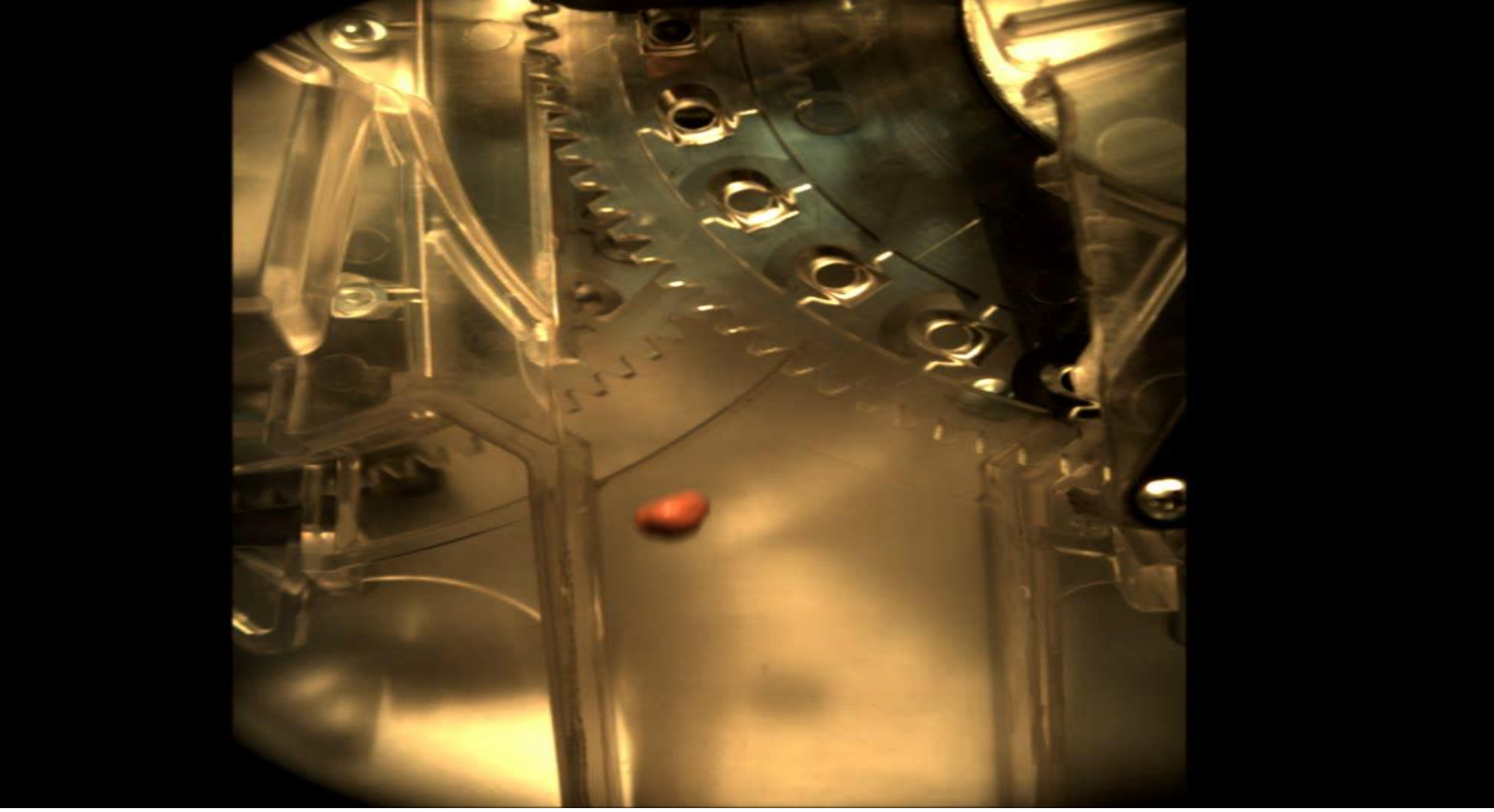
Can I view field data on an iPhone®?

How do I register my FieldView display and install the FieldView app from the Apple App Store?

How do I view my prior year "as planted" maps?

What happens if I delete the FieldView icon






CASE IH
MAGNUM
BECK'S
BECK'S
JOHN DEERE


PRACTICAL FARM RESEARCH
MULTI HYBRID PLANTING
JOHN DEERE


RADLERS
BECK'S

2012-2014 Multi-Hybrid Planting Results

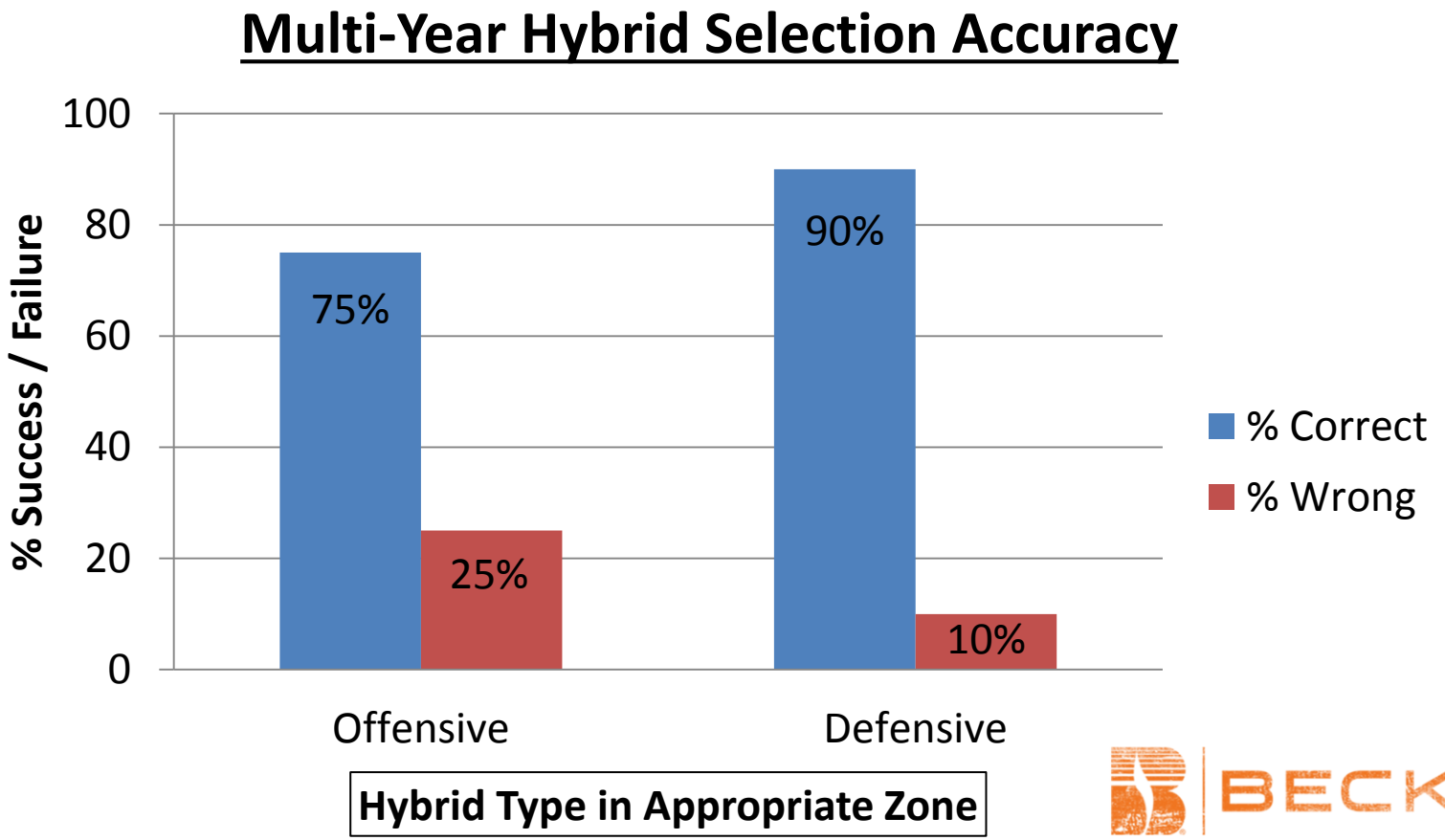
Low Productivity Soils Defensive Hybrid	
+7.5 Bu/A	+$39.03

High Productivity Soils Offensive Hybrid	
+8.3 Bu/A	+$46.50

7.9 Bu. Yield Increase = $42.77 / Acre

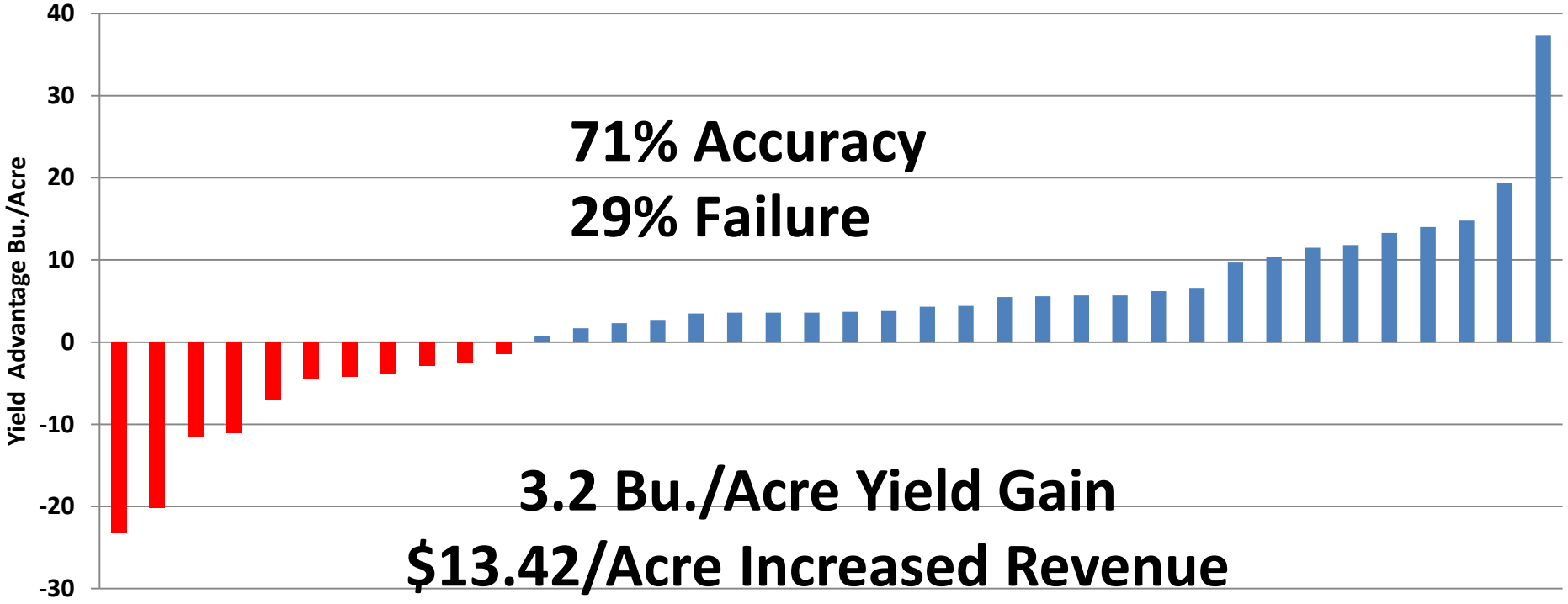
BECK'S

2012-2014 Multi-Hybrid Planting Summary



BECK'S

2014 Summary: Offensive Hybrid in High Productivity Soils



BECK'S

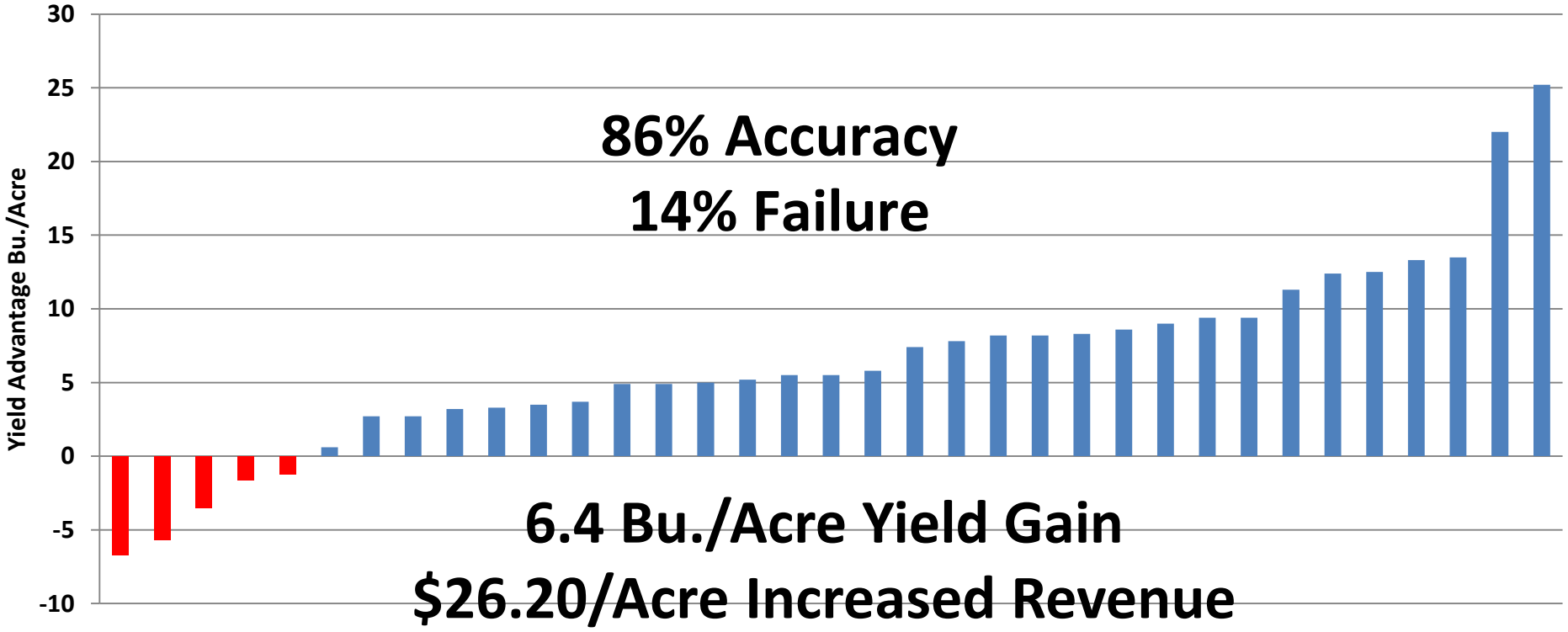
Saturated Soils all Summer

Diplodia Ear Rot

Stalk Rot Severity

BECK'S

2014 Results: Defensive Hybrid in Low Productivity Soils



BECK'S

2013-2014 Multi-Variety SB Planting Results

Low Productivity Soils Defensive Variety		High Productivity Soils Offensive Variety	
+3.0 Bu/A	+$40.21	+3.4 Bu/A	+$36.75

3.2 Bu. Yield Increase = $38.48 / Acre

BECK'S

Multi-Hybrid/Variety Return on Investment

Kinze 4900 MH Planter	Precision Planting VSet Select
$29,185 or $1824/Row	$31,200 or $1950/Row

Beck's Multi-Year Data (12-14')

Corn	+7.9 Bu/A	$42.77/Acre
Soybeans	+3.2 Bu./A	$38.48/Acre
		$40.63/Acre

Break-even Acreage

Corn = 353 acres Soybeans 392 acres

BECK'S

Multi-Hybrid/Variety Return on Investment

Kinze 4900 MH Planter	Precision Planting VSet Select
$29,185 or $1824/Row	$31,200 or $1950/Row

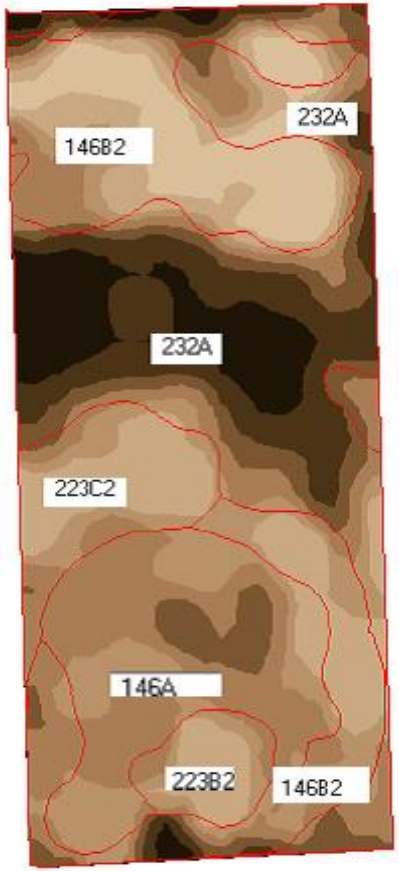
Beck's Multi-Year Data (12-14')		Todays Prices?	Revenue$$
Corn	+7.9 Bu/A	$3.30	$26.07/Acre
Soybeans	+3.2 Bu./A	$8.70	$27.84/Acre
			$26.96/Acre

Break-even Acreage

Corn = 575 acres Soybeans =539 acres

BECK'S

Multi-Genetic Planting



- Management zones are key to success
- Spatial locations are needed of:
  - High yielding zones
  - Low yielding zones

Without management zones, multi-hybrid planters are worthless

BECK'S

The Future of Multi-Genetic Planting?

- Two glaring problems that could hold this technology back

1. Management Zone Creation
2. Prescription Generation

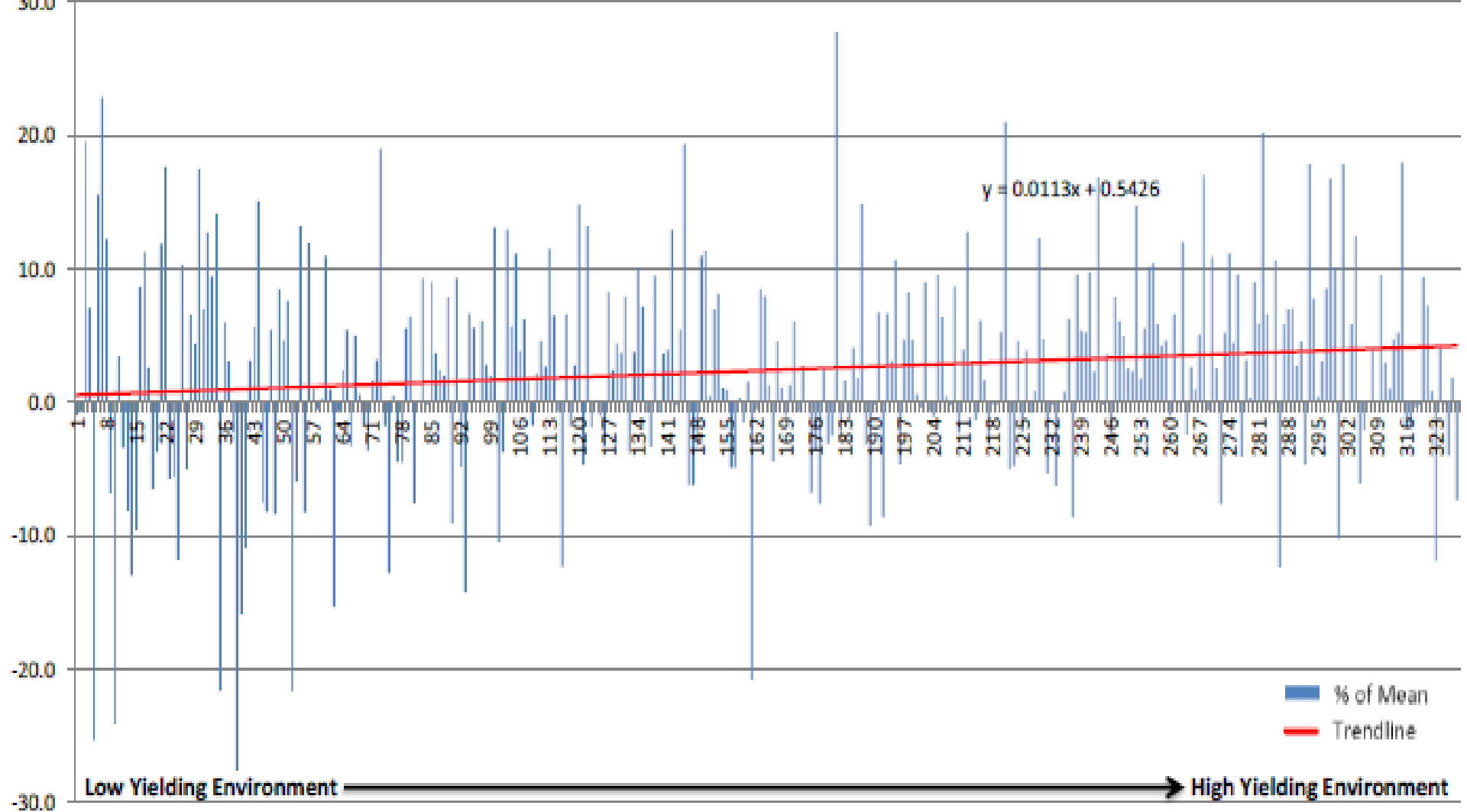
https://www.farmserver.com

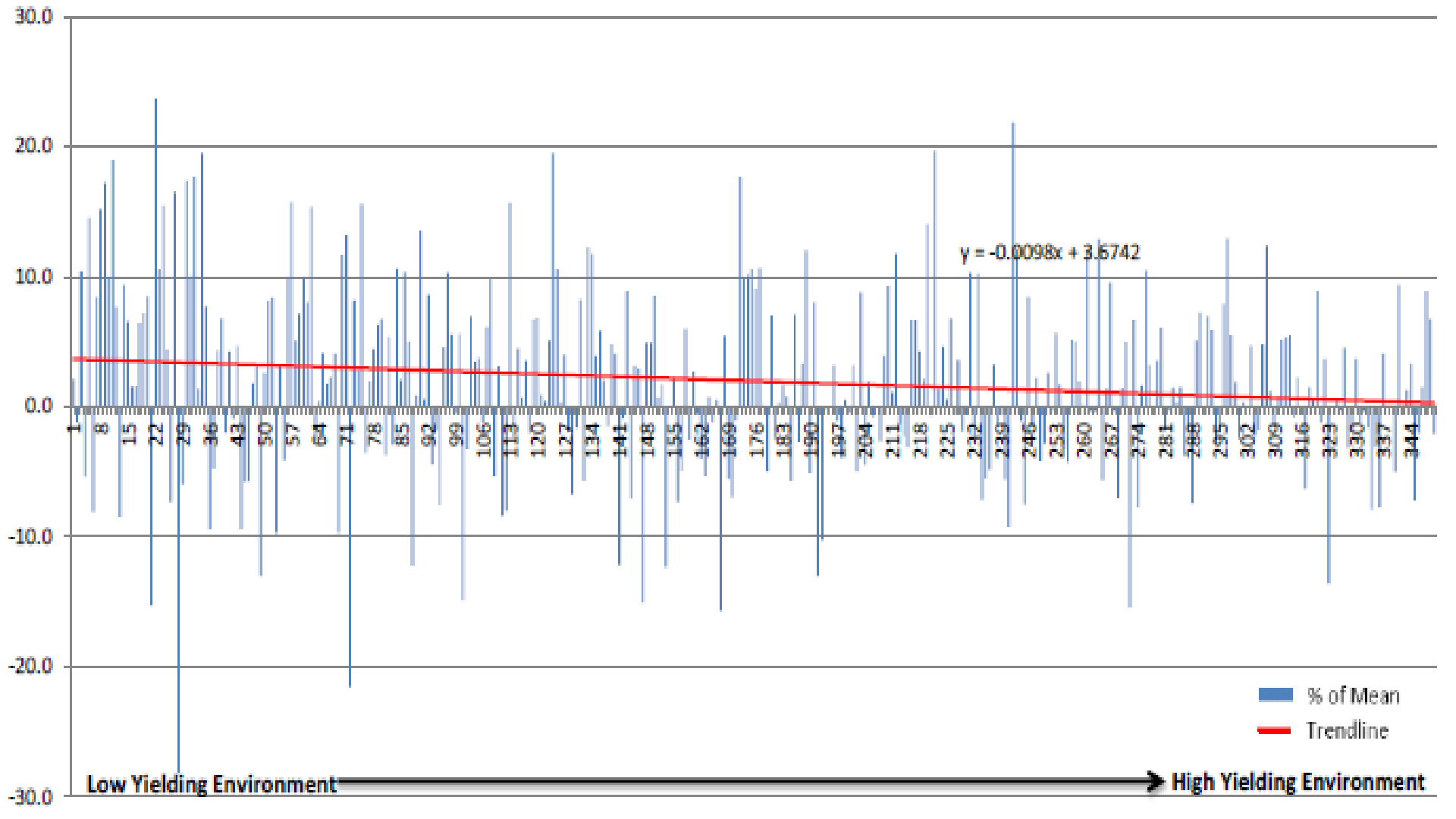
FARMserver™

TRY FOR FREE | LOG IN

ABOUT | SEE HOW IT WORKS | PRICING | NEWS TO USE | CONTACT

Proper Hybrid Selection is also a Key to Success


30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
y = 0.0113x + 0.5426
1
8
15
22
29
36
43
50
57
64
71
78
85
92
99
106
113
120
127
134
141
148
155
162
169
176
183
190
197
204
211
218
225
232
239
246
253
260
267
274
281
288
295
302
309
316
323
% of Mean
Trendline
Low Yielding Environment
High Yielding Environment


30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
y = -0.0098x + 3.6742
% of Mean
Trendline
Low Yielding Environment
High Yielding Environment

Market Availability

Single Row Dual Meter

KINZE

JOHN DEERE

CASE IH AGRICULTURE

KINZE

Precision PLANTING vSet Select

"Twin Row" Transitions

Great Plains

KINZE

MONOSEM

BECK'S

2014 PFR Book

www.beckshybrids.com/Research/Practical-Farm-Research

BECK'S

Thank You!

Jason Webster

815-584-7711

jwebster@beckshybrids.com

@jwebstercilpfr

BECK'S