



Bob Wells
Challenge Coordinator
Bement Illinois

SOYBEAN MANAGEMENT LESSONS LEARNED FROM THE 2018 ILLINOIS YIELD CHALLENGE

Fluid Fertilizer Forum
February 19, 2019
Phoenix Arizona

1994

“If you have 100 farmers in a room,
you will have 110 different ways to
farm.”



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“If you have 100 farmers in a room,
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In 2018

“Make that 210 different ways to farm”



FUN WITH NUMBERS !

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farm.”

In 2018

“Make that 210 different ways to farm”





MEY





MEY

Maximum

Economic

Yield



MEY

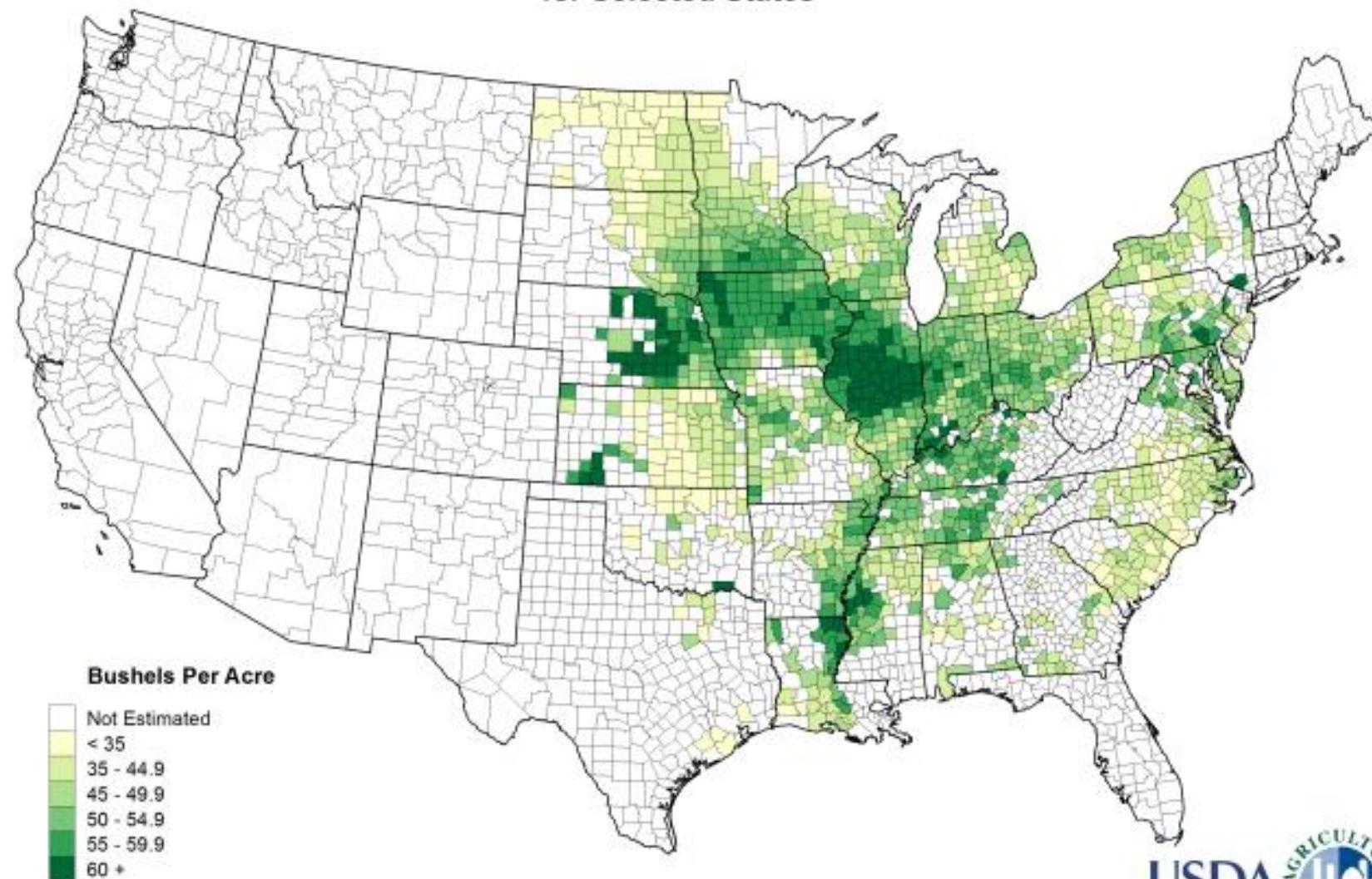
ROIT



YIELD



**Soybeans 2017
Yield Per Harvested Acre by County
for Selected States**



U.S. Department of Agriculture, National Agricultural Statistics Service



2018 Yields



2018 Yields

U.S. Avg - 51.8 bpa



2018 Yields

U.S. Avg - 51.8 bpa
Illinois Avg - 65+ bpa



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Cent IL Counties - 80+ bpa avg?

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(irrigated / down from 2016 171.8 bpa)

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Illinois Avg - 65+ bpa

Cent IL Counties - 80+ bpa avg?

Randy Dowdy (GA) - 156.84 bpa

(irrigated / down from 2016 171.8 bpa)

Nebraska grower - 138 bpa
(dryland)



Illinois 100-Bushel Yields

Anonymous	121.67	Chuck Walsh (Reg. 2)	112.48
Paul Klein (State 100)	110.94	Greg McClure (st. Irr.)	110.19
Ken Elmore (Reg. 3)	108.31	Cameron McClure (Irr.)	108.06
Joe Klein	106.28	Greg McClure (dryland)	105.18
Dan Luepkes (Reg. 1)	103.46	Edward Logan	103.19
Duane Noland	102.50	Tom Elmore	101.89
Marc Padrutt	101.07	Travis Rovey (2)	100.78

Illinois 90-Bushel Yields

Don Dugan	99.25	Zane Freeland (2)	98.47
Luke & Eric Heaton	97.46	Aaron Ehnle	97.00
Dick Haas (3)	96.98	Carl Luebchow	96.83
Grant Strom (2)	96.65	Daryl Keiser	96.07
Cory Utterback	95.88	Chad & Kyle Kuenstler	95.68
Michael Denton (3)	95.01	Jason Lakey	93.93
Robert Lakey (2)	91.95	Derek Martin	91.76
Bryan Severs	91.40	Mickey Williams	91.12
Mark Kannmacher	90.84	Barbara Zick	90.53
Matt Krausz (Reg. 4)	90.22	Jimmy Ayers	90.30
Kelsey Schwab	90.00		

Illinois 80-Bushel Yields

Bob Jodts (s-b-s)	89.02
Kris Ehler	88.43
David Wessel (Irr.)	88.26
Jason Lay	87.47
Rex Schwartz	87.27
Eric Dolbeare	85.83
Brian Mansfield (s-b-s)	85.70
Alan Madison	84.65
Brad Crane	83.70
Gary Rapp	82.10
Jim Martin (s-b-s)	82.00

Yields 68-79.9 bushels per acre

James Ryan	79.78
Vernon Mayer	75.24
Ralph Timpner	72.07
Fred Schirer	69.69
John Breedlove (Reg. 2 S-b-S)	68.26

Double Crop Yields

Matt & Mark Krausz (Reg. 3)	64.94
James Kight-Garlisch (Reg. 2)	62.68
Chad Kuenstler	61.64
Larry Garlisch	58.66
- No Region 1 Entries	

**100+ Bu
Yields**



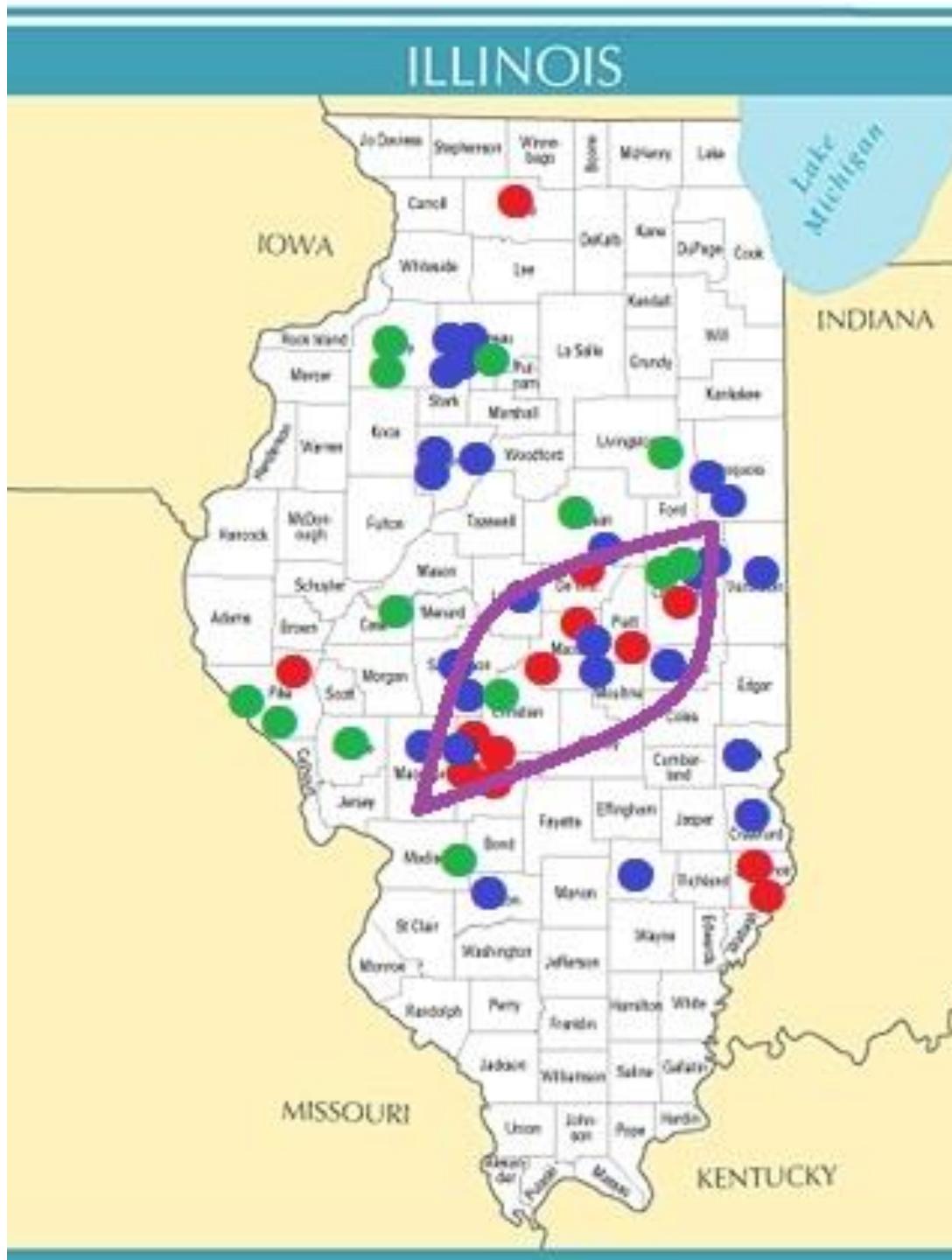
**90+ Bu
Yields**



80+ Bu Yields



High Yield Zone



Yields by Region



Yields by Region

97.32 bpa

79.18 bpa



95.15 bpa

95.92 bpa

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After five years of research, we're pleased to share this summary of the Six Secrets of Soybean Success.

6

Secrets of Soybean Success

WHAT FIVE YEARS OF RESEARCH HAS TAUGHT US



PHOTO COURTESY OF FRED BELOW

FRED E. BELOW, PH.D.
Professor of Crop Physiology, University of Illinois

1 WEATHER:

The number one influence on soybean yields, but beyond our control

2 FERTILITY:

Proactive fertilization can boost yields over 60 bushels

3 FOLIAR PROTECTION:

Fungicides and insecticides protect foliage and prevent yield loss

4 GENETICS:

The fullest maturities for the region produce the greatest yield increases

5 ROW SPACING:

Narrower, 15- or 20-inch rows increase yield and respond better to more intense management

6 SEED TREATMENT:

Early season protection protects yield potential



CHECKOFF & MEMBERSHIP
PROGRAMS

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- Seed Treatment

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CHECKOFF & MEMBERSHIP
PROGRAMS

What is the P1, K, pH???

- We don't know!
- Questions on Entry Forms asked:
 - Fall application?
 - Spring application?
 - Starter used?
 - Manure applied?
 - Even then, no consistency from our survey to account for nutrient levels

Fertilizer Applications

Manure used?	Yes = 15%	98.11 bpa
	No = 85%	95.24 bpa
Fall application?	Yes = 79%	95.69 bpa
	No = 21%	95.19 bpa
Spring application?	Yes = 31%	91.77 bpa
	No = 69%	96.13 bpa

* From all responding entry forms



Fertilizer Applications

Both Fall & Spring?	93.09 bpa
Starter only	96.70 bpa
All 3 times (incl. Starter)	93.84 bpa
No fertilizer application at all	88.90 bpa



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Seed Treatments

Seed Inoculant Used	Yes = 53%	95.95 bpa
	No = 47%	94.23 bpa
Seed Fung / Insecticide	Yes = 84%	96.37 bpa
	No = 16%	88.53 bpa
Seed Nematicide	Yes = 27%	98.54 bpa
	No = 73%	93.85 bpa

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CHECKOFF & MEMBERSHIP
PROGRAMS

Foliar Applications

Foliar Fungicide Used	Yes = 90%	96.93 bpa
	No = 10%	83.44 bpa
Foliar Insecticide Used	Yes = 83%	96.67 bpa
	No = 17%	90.61 bpa
Foliar Stack Used	Yes = 70%	95.10 bpa
	No = 30%	97.09 bpa



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PROGRAMS

Weed Control Practices

Pre-Emergence Herbicide Used (all conducted a post-emerge appl)	96.85 bpa
No Pre-Emergence Herbicide Used	88.91 bpa
Burndown only w/ Post trip	89.24 bpa



Weed Control Practices

Widest Used Post Emerge Chemistries

Glyphosate 50% of respondents

Key non-Glyphosate 37% of respondents

Dicamba 41% of respondents



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CHECKOFF & MEMBERSHIP
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Tillage Practices

Fall Tillage Used	Yes = 85%	97.80 bpa
	No = 15%	84.10 bpa
Spring Tillage Used	Yes = 68%	97.09 bpa
	No = 32%	92.92 bpa
Fall Tillage Only	23%	96.85 bpa
Spring Tillage Only	6%	86.74 bpa
Strip-Till Only	19%	85.71 bpa

- * Notes: 1 – No-Till (83.70 bpa)
- 2 – Minimum-Till (95.25 bpa, one grower)



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CHECKOFF & MEMBERSHIP
PROGRAMS

Genetics

• All Brands Avg	95.30 bpa
• Brand A	96.52 bpa
• Brand B	96.30 bpa
• Brand C	85.47 bpa
• Brand D	96.77 bpa
• Brand E	96.74 bpa
• Brand F	95.50 bpa
• Brand G	90.83 bpa
• Misc Brands (6)	97.66 bpa

Row Spacing

42 Respondents Avg	94.96 bpa
7.5" Rows (3)	81.59 bpa
10" Rows (1)	95.68 bpa
15" Rows (15)	95.16 bpa
20" Rows (6)	98.94 bpa
30" Rows (17)	95.70 bpa

Planting Population

39 Respondents Avg	95.30 bpa
>120k (3)	95.45 bpa
125k (6)	100.22 bpa
130k (3)	98.54 bpa
135k (4)	104.93 bpa
140k (10)	92.95 bpa
140-155k (5)	95.18 bpa
160k (5)	92.33 bpa
+165k (3)	84.24 bpa

Planting Dates

Avg Plant Date 4/28/2018 (38)	94.42 bpa
3/22 - 4/2 (3)	93.64 bpa
4/22 - 4/26 (12)	98.96 bpa
4/28 - 4/29 (11)	96.25 bpa
5/1 - 5/8 (5)	91.23 bpa
5/10 - 5/20 (7)	86.39 bpa
	(incls a 108.31)
	(82.74 bpa)

* Note - 3/22 - 4/2 yields: 103.19, 102.5, 75.24

Crop Rotation

2016 / 2017 / 2018

42 Respondents Averaged 96.77 bpa

Soybeans / Corn / Soybeans	48%	95.66 bpa
Corn / Corn / Soybeans	43%	97.73 bpa
Corn / Soybeans / Soybeans	9%	98.03 bpa

Maturity Groups

41 Entries averaged 95.91 bpa

2.9 (2)	90.58 bpa	3.6 (10)	98.25 bpa
3.0 (4)	96.58 bpa	3.7 (3)	96.70 bpa
3.1 (2)	95.36 bpa	3.8 (4)	95.07 bpa
3.2 (1)	106.28 bpa	3.9 (6)	96.84 bpa
3.3 (1)	87.47 bpa	4.2 (2)	90.67 bpa
3.4 (3)	98.83 bpa	4.3 (1)	72.07 bpa
3.5 (2)	98.29 bpa		

Maturity Groups

40 Entries averaged 96.57 bpa

Lower 14	96.69 bpa
Middle 14	97.43 bpa
Higher 13	95.22 bpa

* Removing the 4.3 @ 72.07 bpa



Maturity Groups

38 Entries averaged 96.83 bpa

2.9 – 3.3 (10) 95.19 bpa

3.4 – 3.6 (15) 98.37 bpa

3.7 – 3.9 (13) 96.26 bpa

* Removing the 4.2s & the 4.3

A faint, abstract network graph background consisting of numerous small, light gray dots connected by thin, light gray lines, resembling a complex web or a molecular structure.

What's Coming in the Future??

National Contest?

Higher Yields??

A horizontal decorative bar located in the center of the slide. It consists of three segments: a dark green segment on the left, a small yellow segment in the middle, and a teal segment on the right.



Thank You
To the
Fluid Fertilizer Foundation

A large, abstract network graphic is visible in the background, consisting of numerous small, light-gray circular nodes connected by thin, light-gray lines. A horizontal bar is positioned in the center of the graphic, consisting of three segments: a dark green segment on the left, a yellow segment in the middle, and a teal segment on the right.

