Other Options

Fine Tuning Wheat

Peter Johnson

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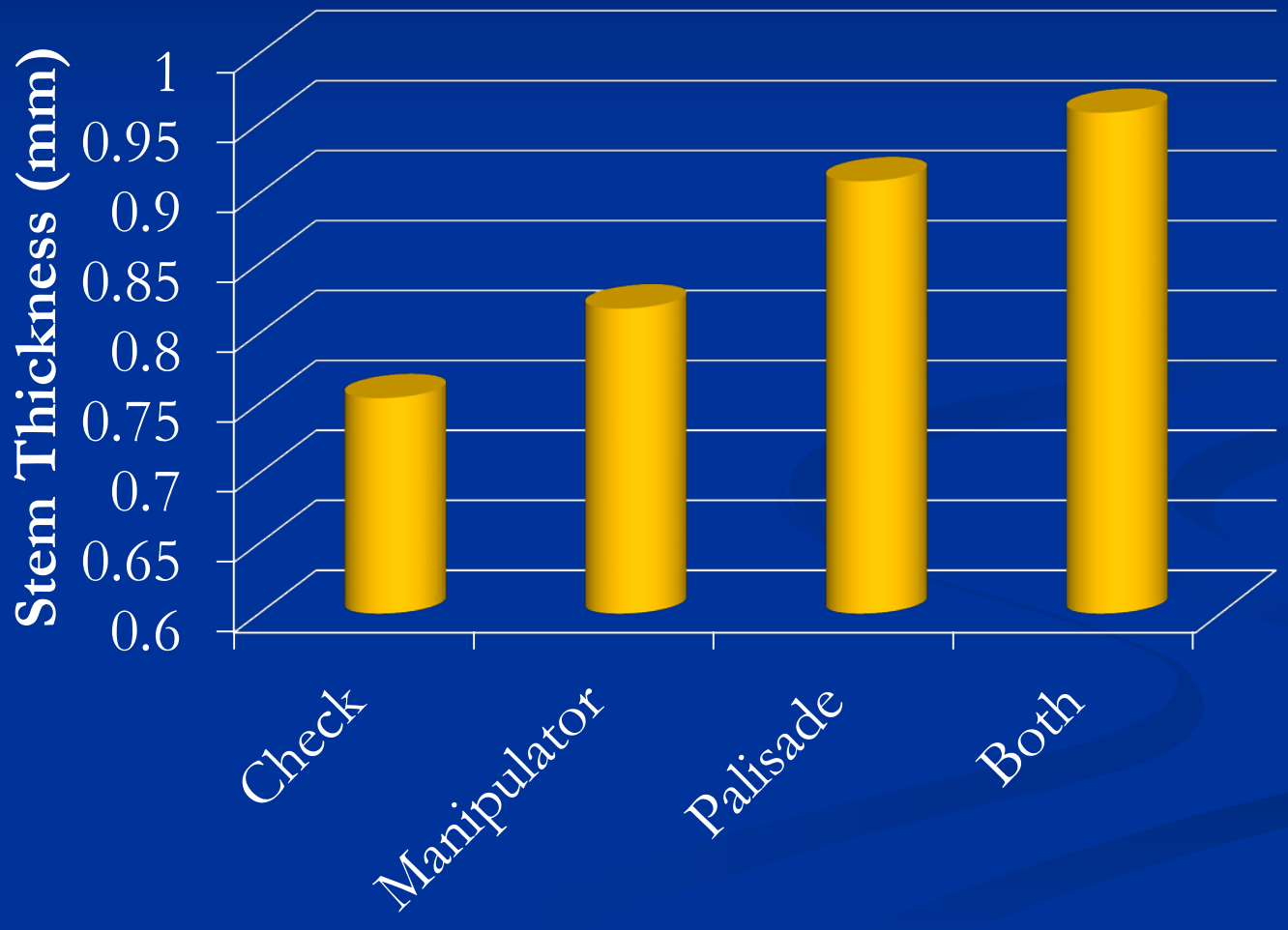
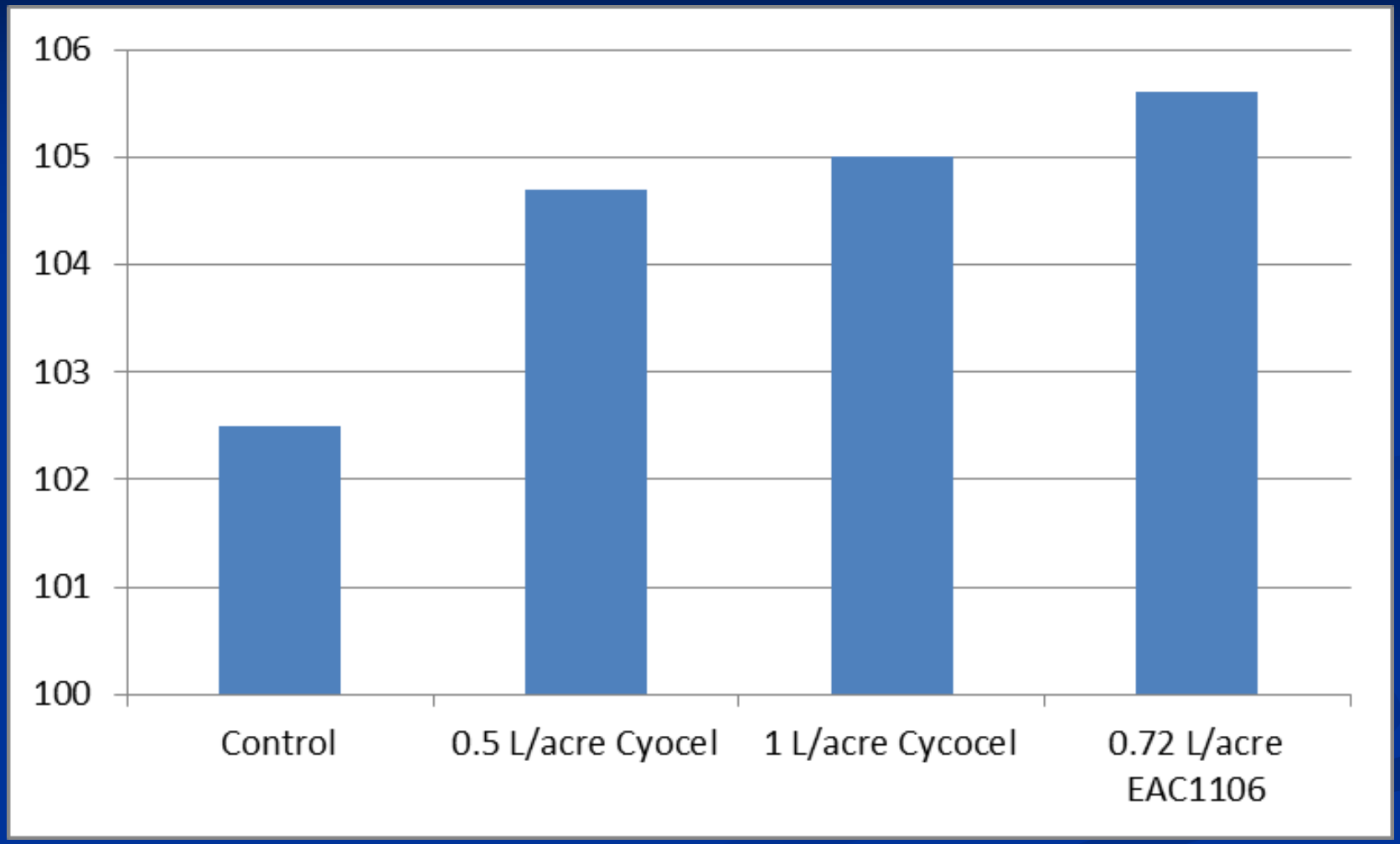
“Your level of success will equal slightly less than the average of the 10 people closest to you.”

Al Schultz

PGR's


Stem Thickness (mm)
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
Check
Manipulator
Palisade
Both

Growth Regulators



Lodging??

- WEATHER! 65F/50F
- Nitrogen rate, timing, source
- Variety
- Soil type
- Plant Growth Regulators (PGR's)
- Planting Date
- Seeding Rate

98% OF AMERICANS SAY 'OH SHIT' BEFORE GOING IN THE DITCH ON A SLIPPERY ROAD.
THE OTHER 2% ARE FROM MICHIGAN AND SAY, 'HOLD MY BEER I'M GONNA TRY SOMETHING .'

Chloride Effect on Wheat 3 Year Summary

Year	# of Plots	Yield (bu/ac) With Potash	Yield (bu/ac) Without
1999	13	86.4	85.3
1998	17	75.5	74.0
1997	8	77.6	76.3
1997-1999 Summary	38	79.8	78.5

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Fall Nitrogen?

	N Rate				
	90	30+90	120	30+120	150
Yield (bu/ac)	80.8	83.9	88.7	89.4	92.9

Johnson , McClure 32 sites 2010-2012

FLYING U RODEOS

SULPHUR

Crop	Yield /acre	Sulphur Removal Lb S/ac
Alfalfa (D.M.)	4 ton	22
Canola	45 bu	15
W.Wheat grain	90 bu	9
Corn grain	150 bu	10
Corn silage	20 ton	22
Soybeans	50 bu	9

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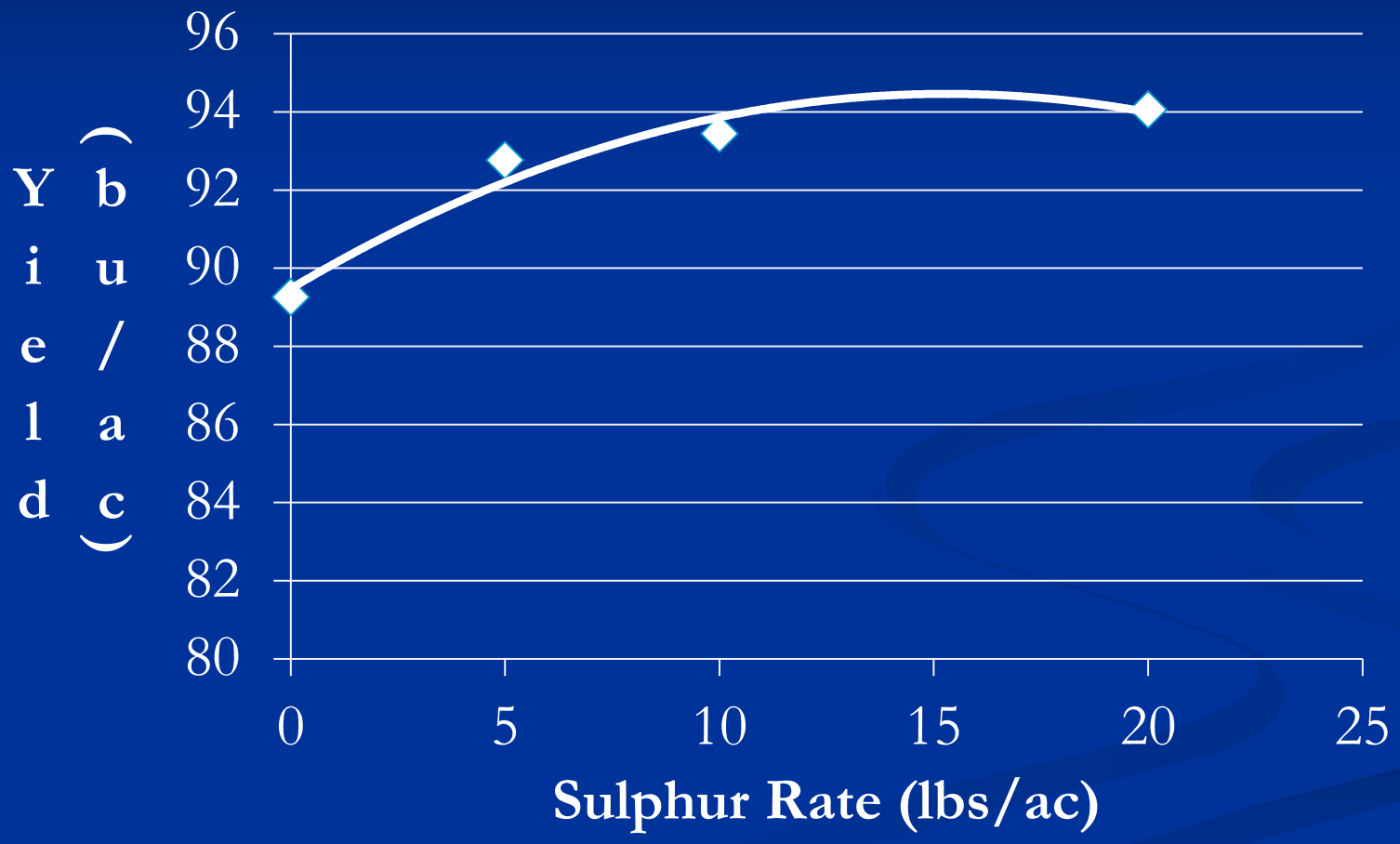
Sulphur Response in Wheat



Johnson, McClure 2012-2014 13 responsive sites @WheatPete

Sulphur!

Crop	S lb/ac	Source
Canola	20	NH4SO4, ATS
Alfalfa	50?	K2SO4, Elemental
Wheat	10	NH4SO4, ATS
Clover	?	Elemental?
Corn	?	NH4SO4, ATS
Soybean	0	None

2015 suggestions, accurate sulphur soil test not yet available.

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Urea vs 28%

Year	Sites	28%	Urea	% Wins
2004	8	88.7	84.8	88
2005	11	85.8	83.4	73
Average	36	**87.3**	**84.1**	79

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35 bu/ac

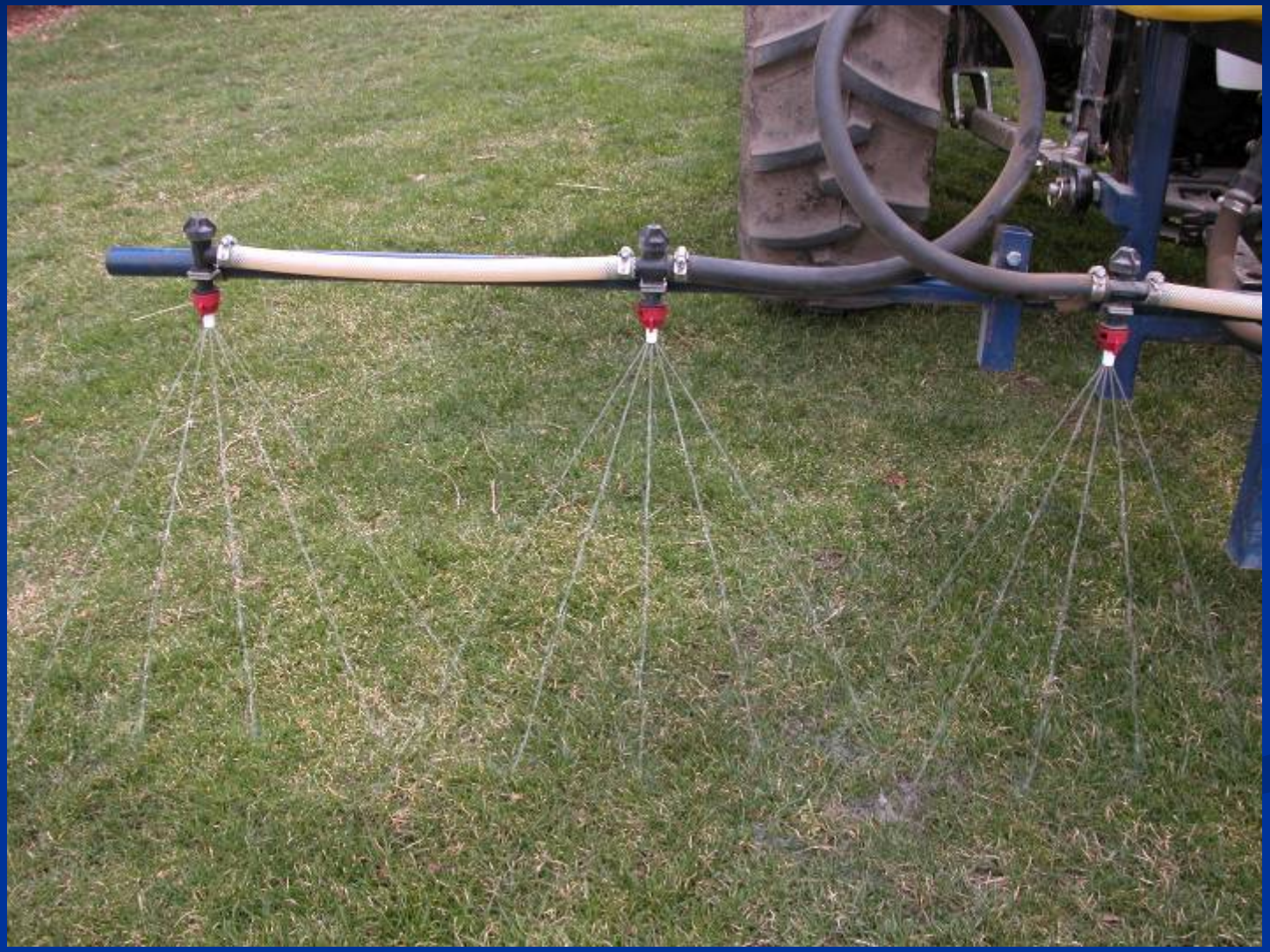
Streamer Nozzles

TeeJet Three-Stream

TeeJet Three-Stream

TeeJet Three-Stream

HARDI Quinta-Stream



HARDI Quinta-Stream

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HARDI Quinta-Stream

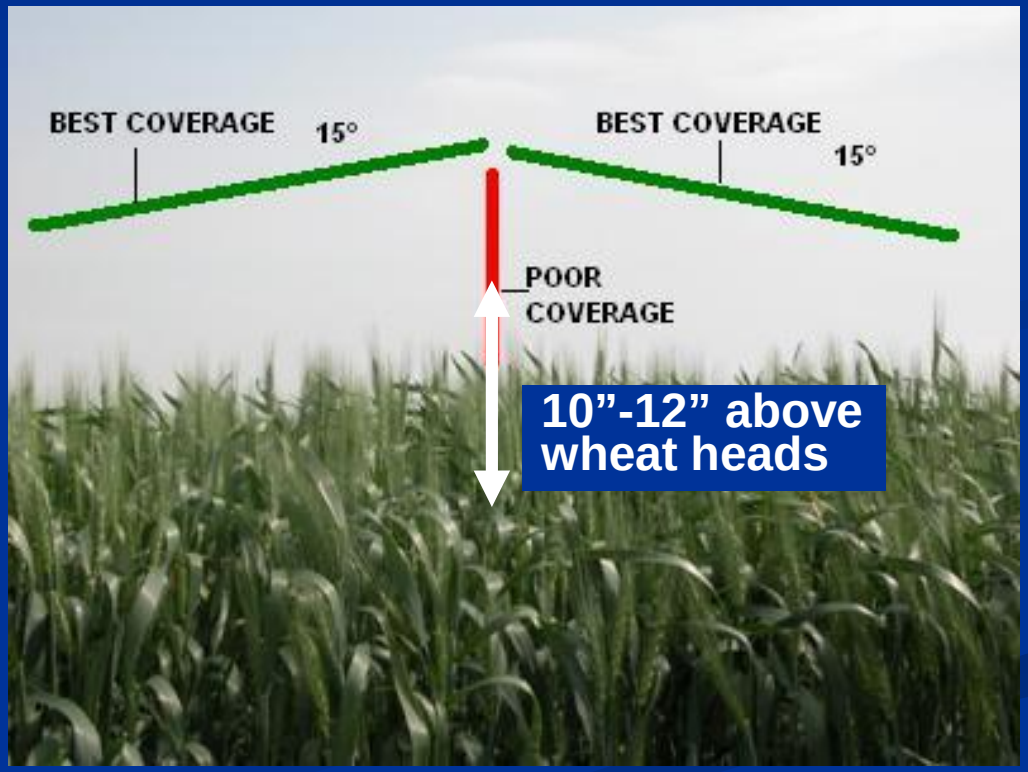
Harvest Timeliness

Harvest Date	Yield (bu/ac)	Test Wt (lb/bu)	Fusarium (%)
Aug 28th	92.5	65.0	0.2
Sept 6th	87.3	61.8	0.7

surely he won't talk about fusarium nozzles again….

utc

Spray Nozzles Setup for Fusarium Control



Spray Nozzles Setup for Fusarium Control

Turbo Teejet

- Forward, backward
- (2X water volume)

Turbo FloodJet

At least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower.

Helmut Spieser, OMAFRA

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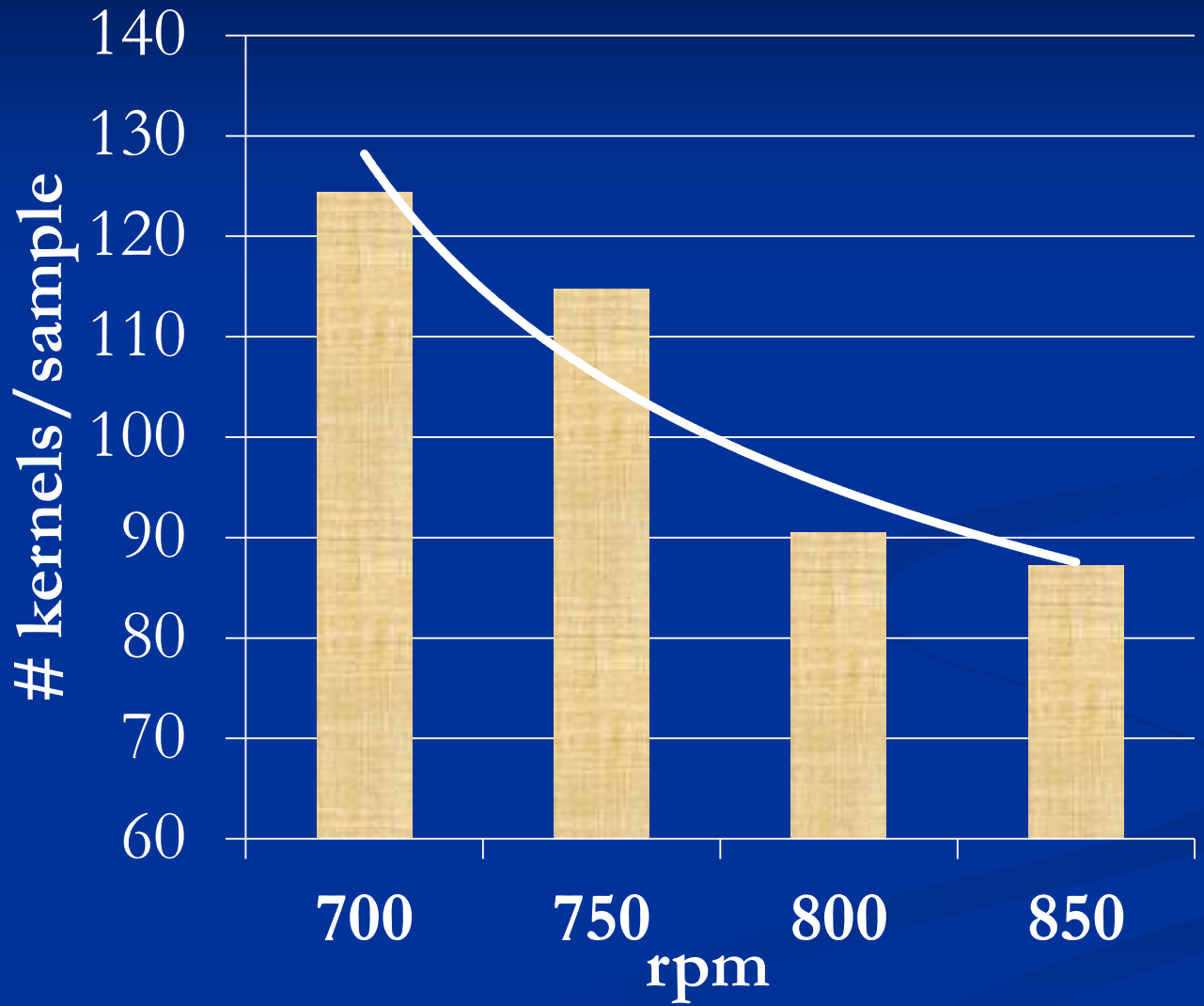
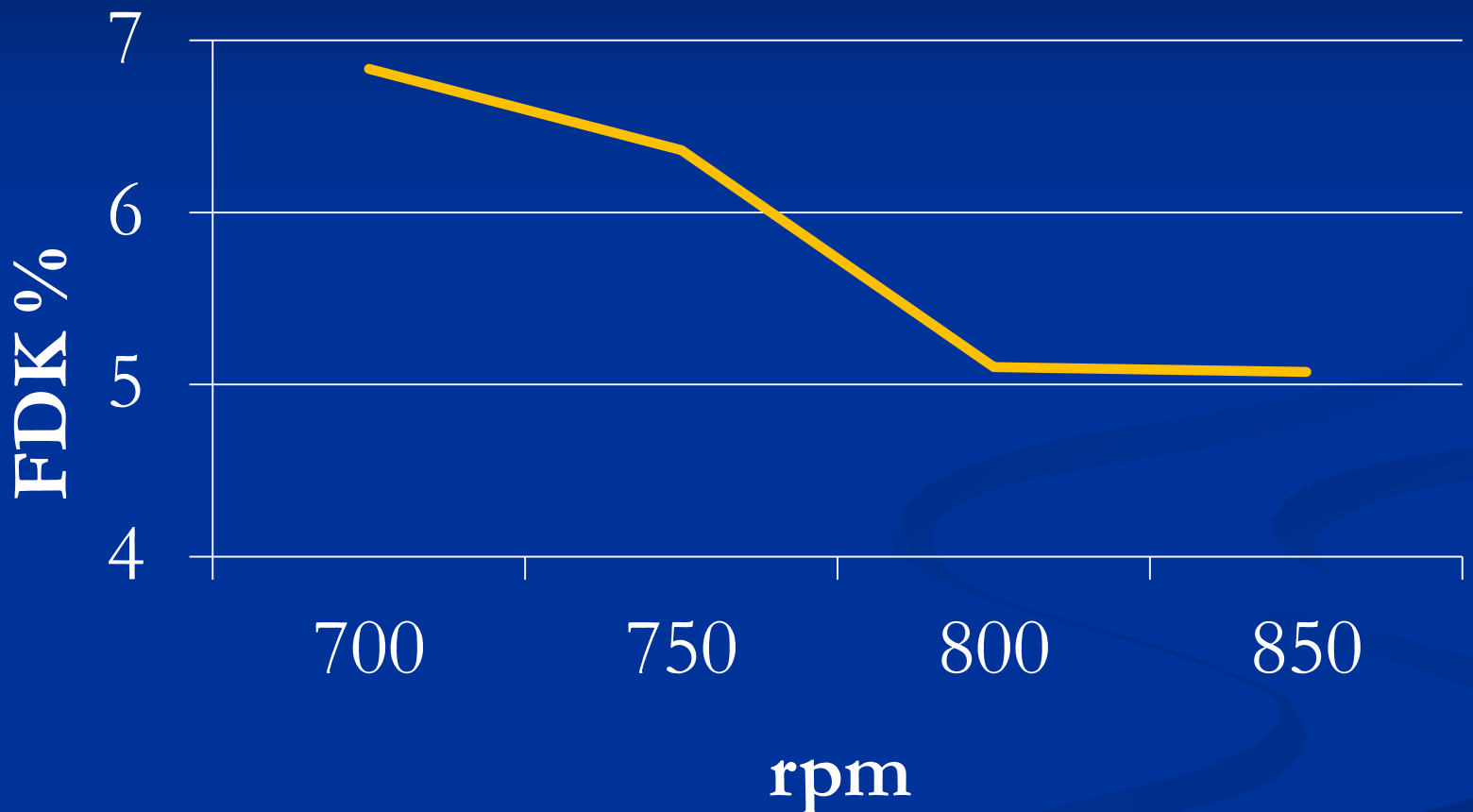
WIND SPEED!!!

Infected Kernels



Fusarium



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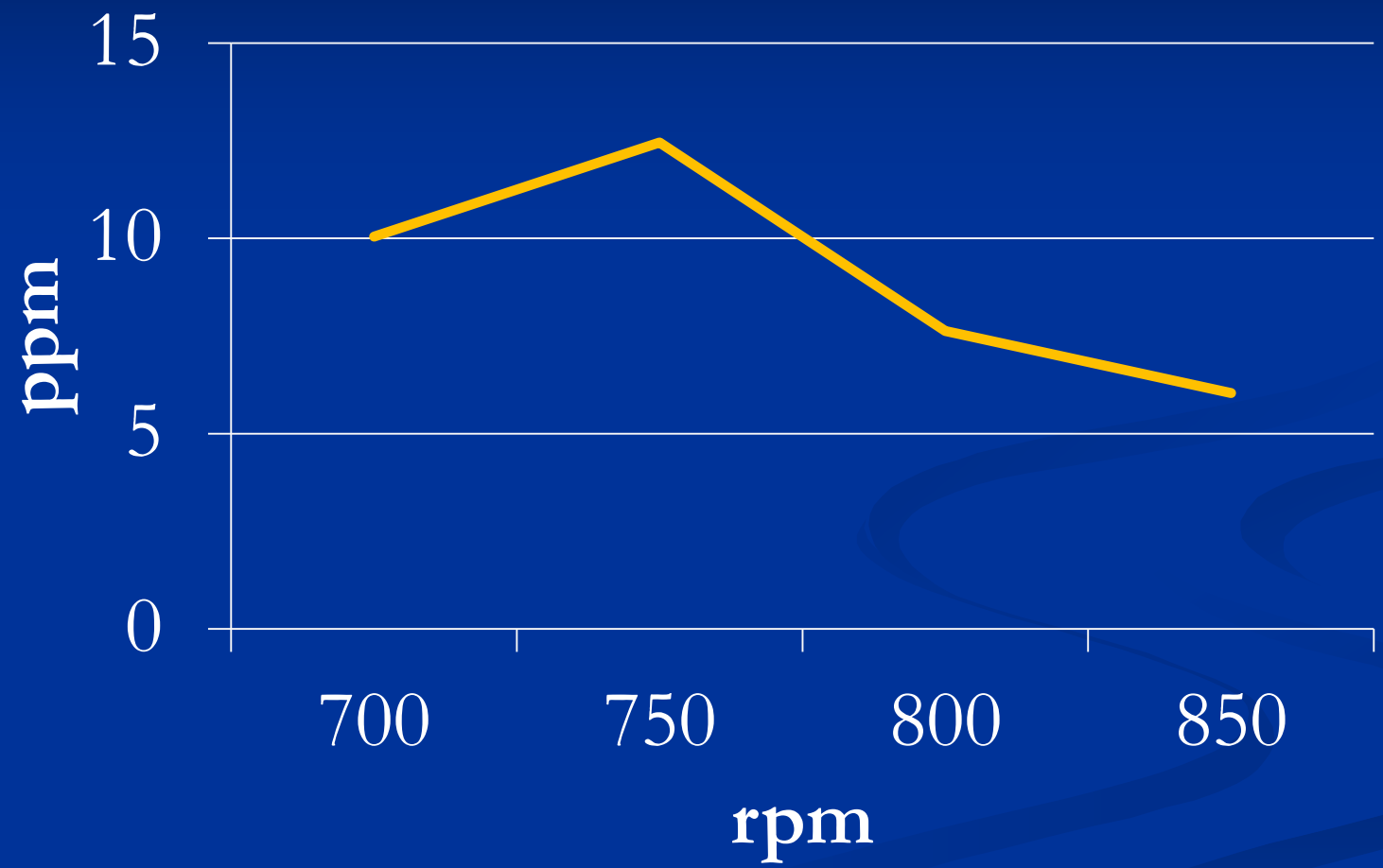
DON



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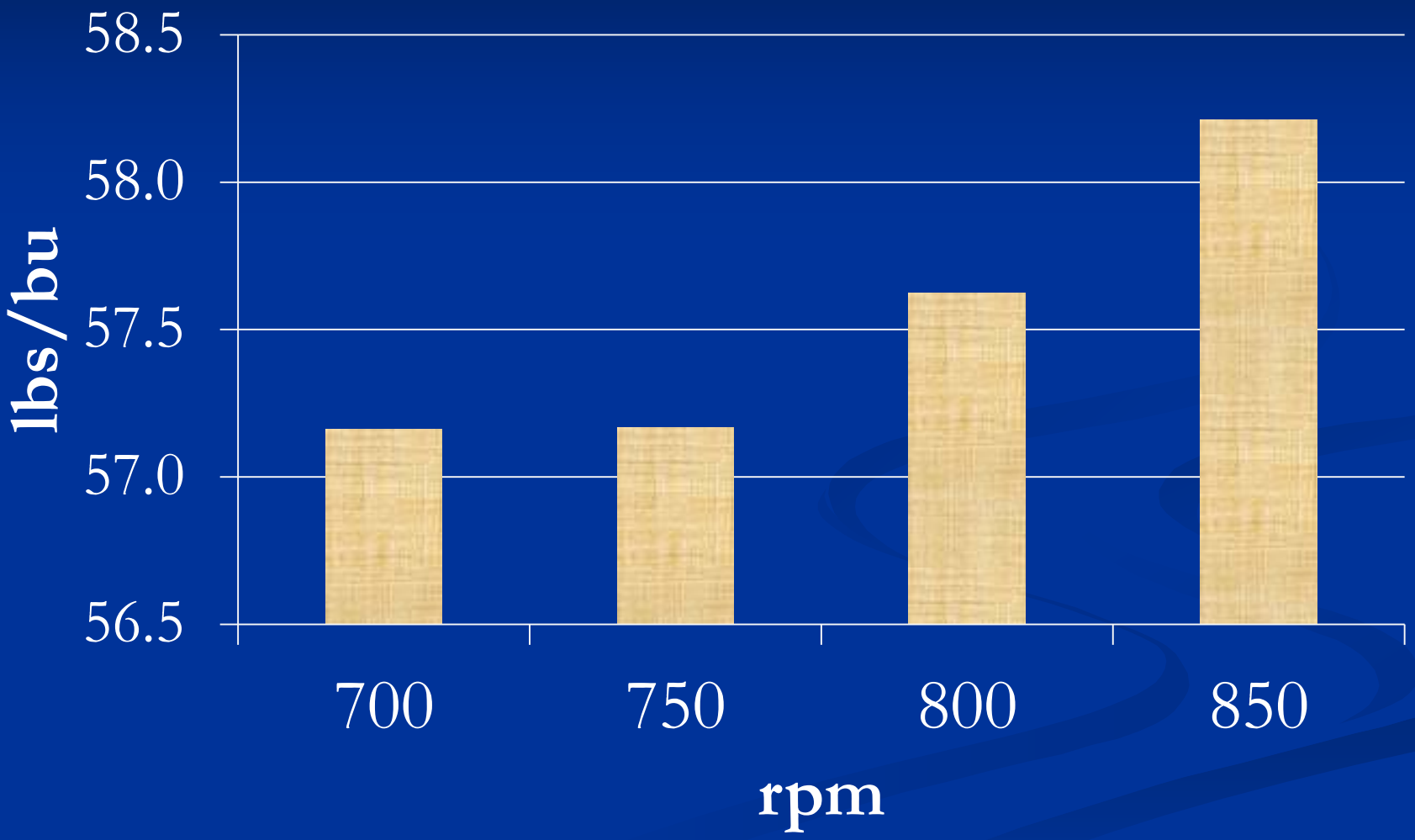
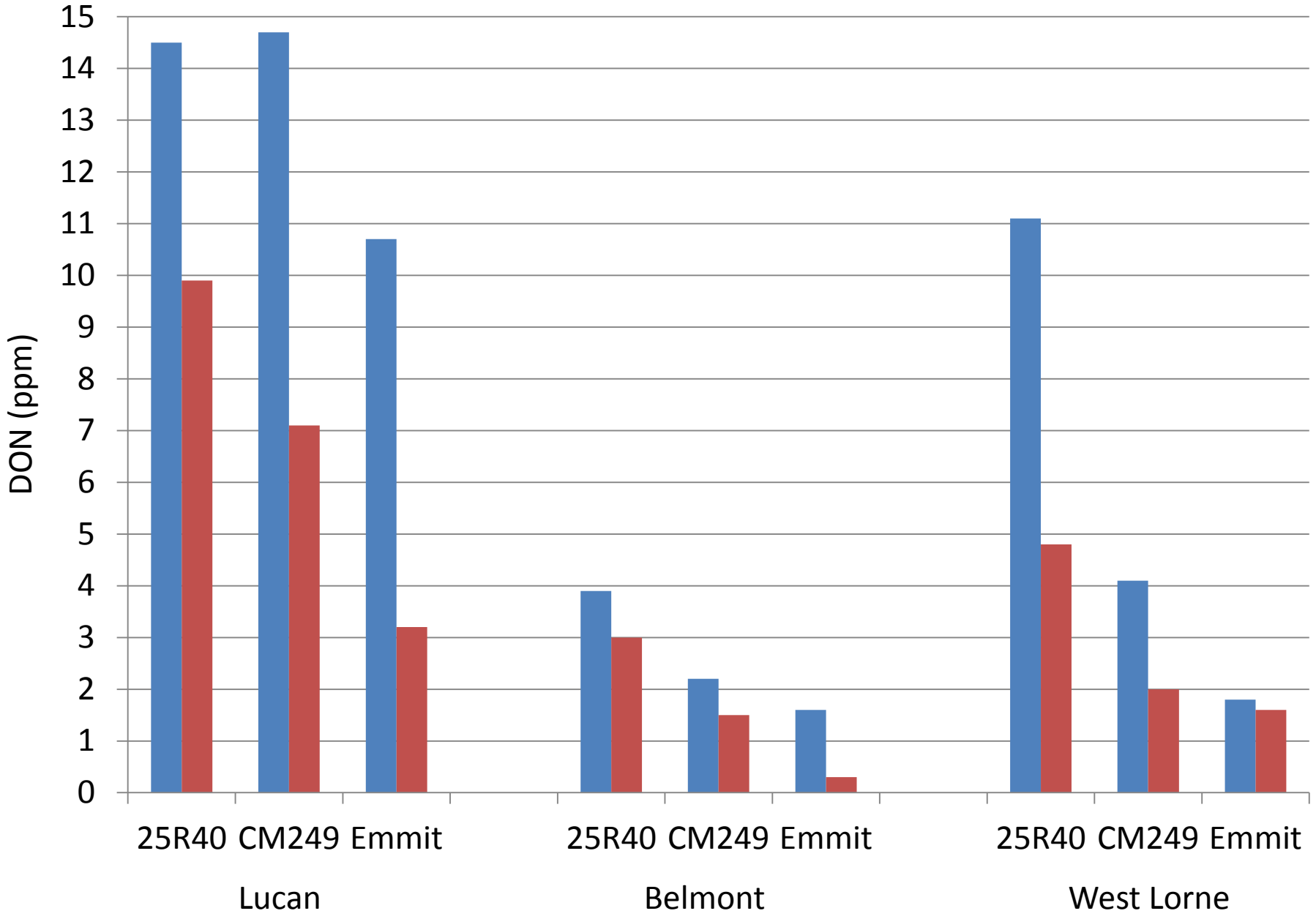
Test Weight

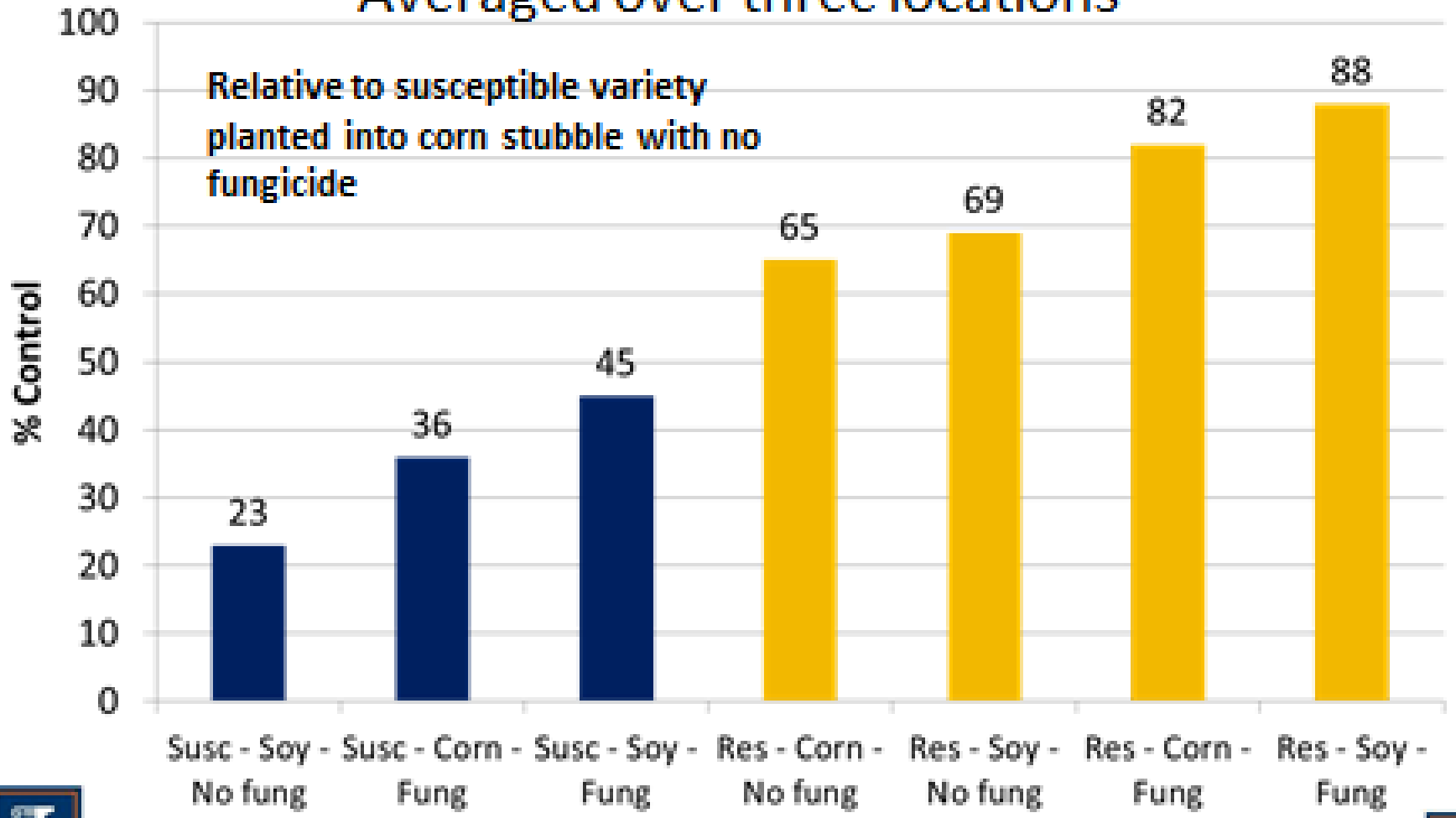



DON (ppm)
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
25R40 CM249 Emmit
Lucan
25R40 CM249 Emmit
Belmont
25R40 CM249 Emmit
West Lorne

Control of DON (vomitoxin)

Illinois Integrated Management Trials – 2010

Averaged over three locations



EXTENSION

EXTENSION

Questions?

Thank-you!

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