

**LEAVING YOUR WINDOW  
OPEN IN CANADA.**



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Meanwhile in Canada...



Looks like spring is near!



**Springtime in Saskatchewan**

Spring is on its way!!!



You can already see  
the deer on the meadow.





# Seeding Rates of Durum and Soft White Wheat

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# Effect of Increasing Wheat Seeding Rates



## Possible **Positive** Effects

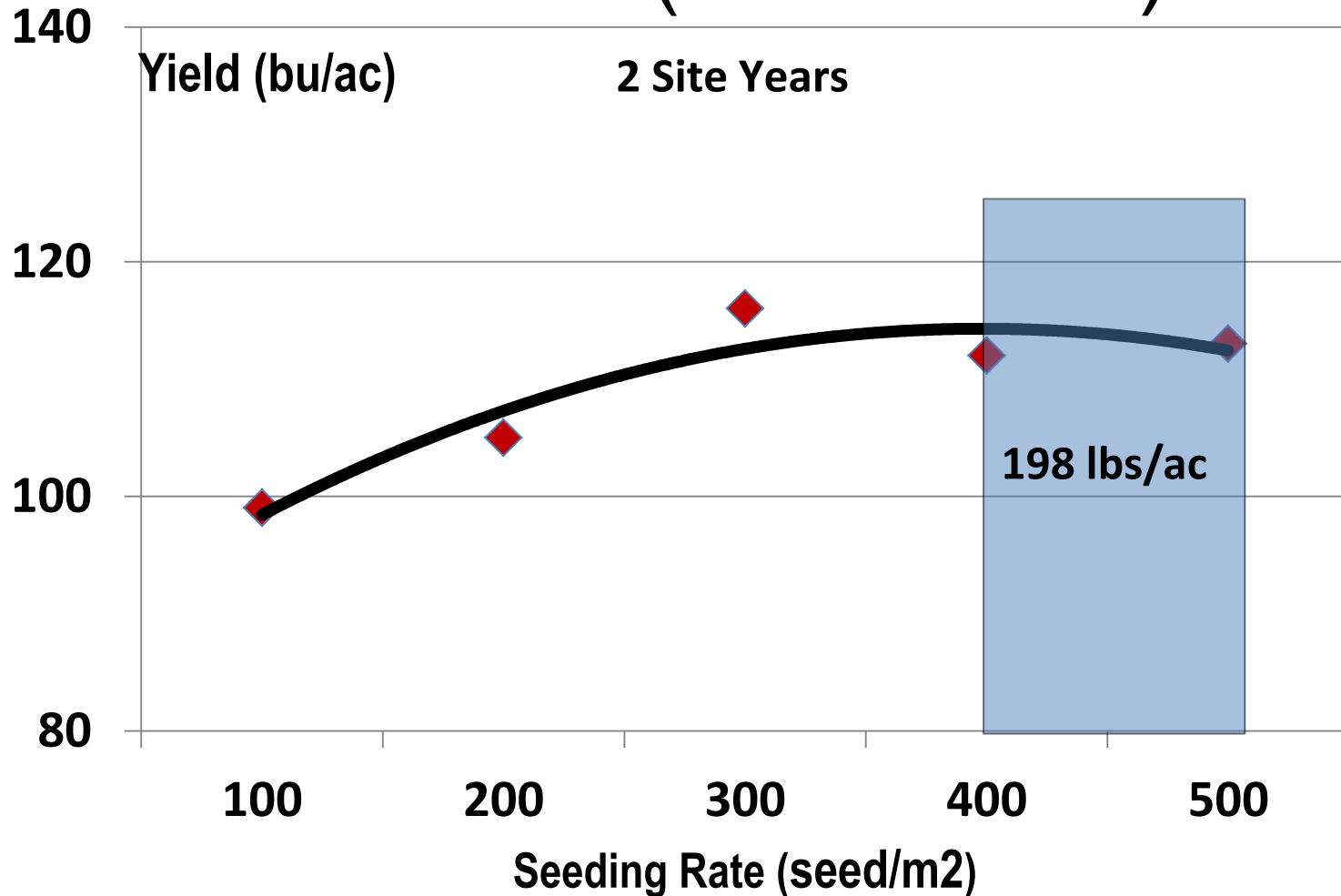
- Increased yield
- Decreased maturity (< tillering)
- Decreased weed competition

## Possible **Negative** Effects

- Decreased yield
- Increased seed costs and planting time
- Increased disease pressure
- Lodging issues

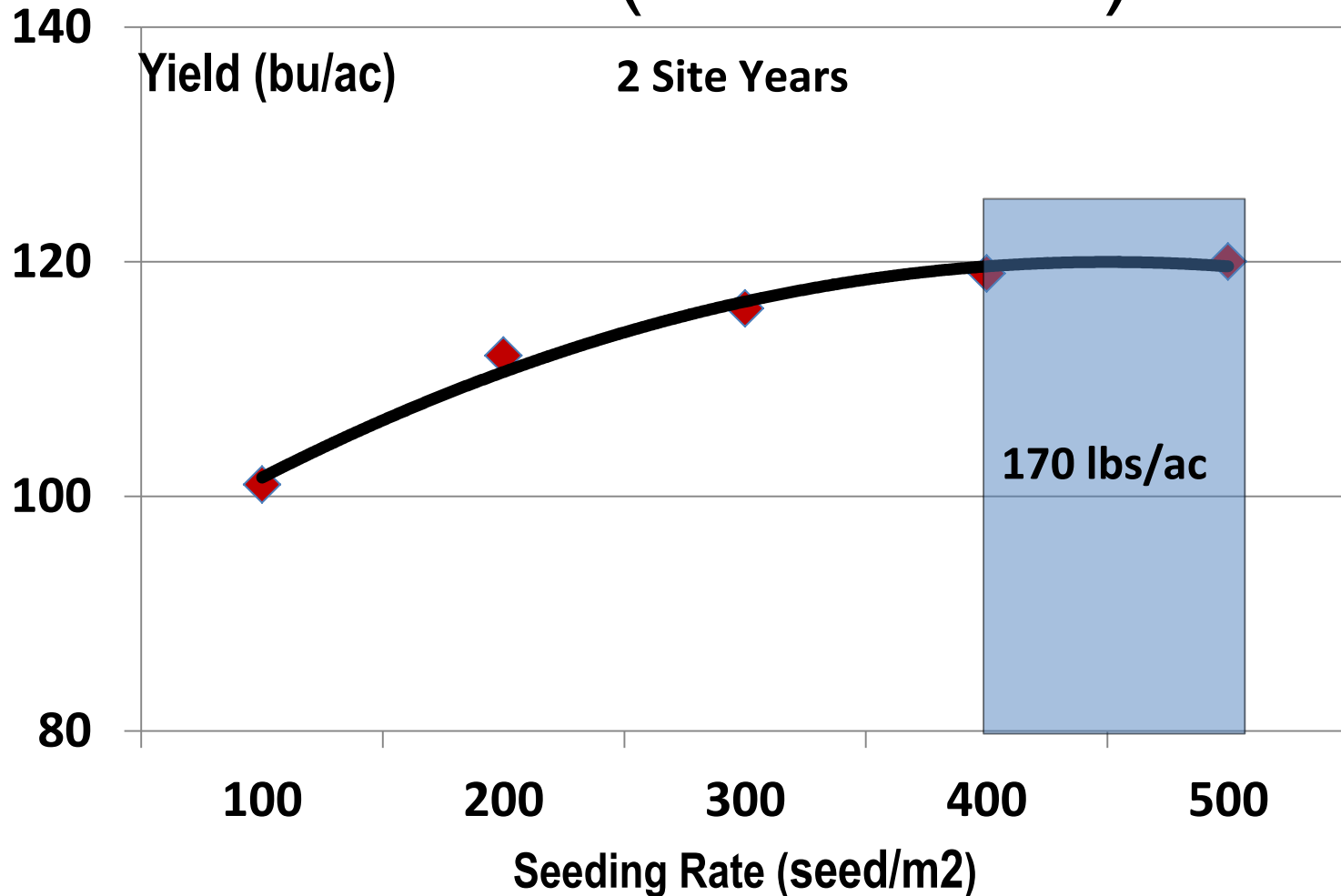
# Lethbridge Seeding Rate vs Yield

## Durum (2007/2009)



# Lethbridge Seeding Rate vs Yield

## SWS (2007/2009)



# Seeding Rate – Durum & SWS



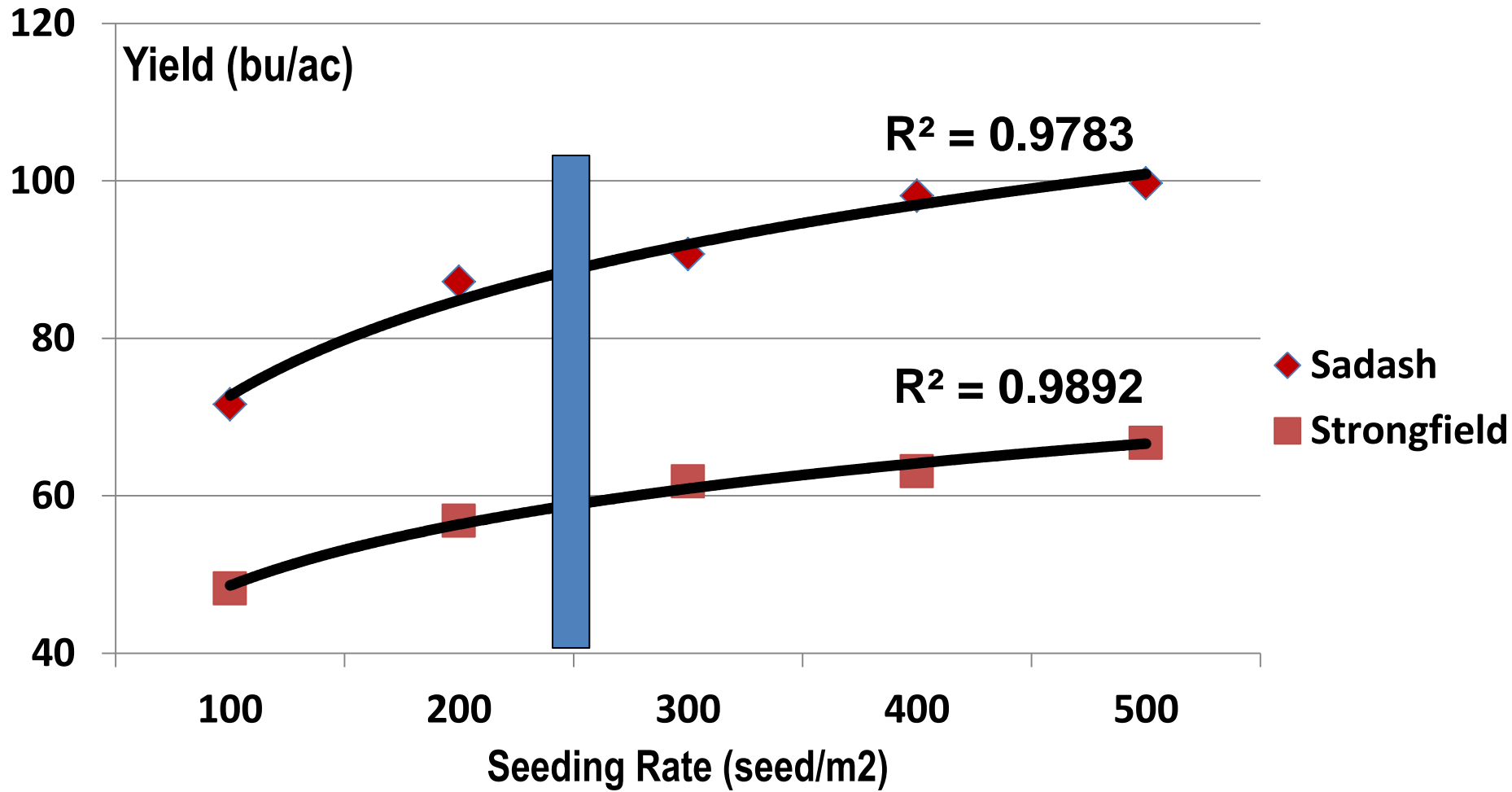
<b>Seeding Rate (plants/m<sup>2</sup>)</b>	<b>Strongfield Seeding Rate lb./acre</b>	<b>Sadash Seeding Rate lb./acre</b>
<b>100</b>	<b>57</b>	<b>45</b>
<b>200</b>	<b>114</b>	<b>90</b>
<b>300</b>	<b>172</b>	<b>135</b>
<b>400</b>	<b>229</b>	<b>179</b>
<b>500</b>	<b>287</b>	<b>224</b>

# Seeding Rate - 2012



Treatment	Yield	Protein	Test Weight	TKW	Maturity	Plant Height	Lodging
	(bu/ac)	(%)	(gm/hl)	(gm)	(days)	(cm)	(1-9)
<b>Variety</b>							
Strongfield	59.3	16.8	75.3	37.5	100	90	4.2
Sadash	89.5	12.5	76.3	33.7	100	85	2.4
LSD (0.05)	5.8	0.7	0.8	NS	NS	4.0	0.7
CV (%)	5.6	3.9	0.8	16.7	0.9	4.4	27.4
<b>Seeding Rate</b>							
100 seed/m <sup>2</sup>	59.9	15.5	75.0	33.0	103	81	1.1
200 seed/m <sup>2</sup>	72.0	14.6	75.8	37.5	100	87	2.0
300 seed/m <sup>2</sup>	76.3	14.4	76.0	36.2	100	90	3.5
400 seed/m <sup>2</sup>	80.6	14.4	76.2	36.1	99	90	4.4
500 seed/m <sup>2</sup>	83.2	14.3	76.0	35.4	99	91	5.5
LSD (0.05)	4.3	0.6	0.6	NS	1	4.0	0.9
<b>Variety x Seeding Rate Interaction</b>							
LSD (0.05)	NS	NS	NS	NS	NS	NS	S

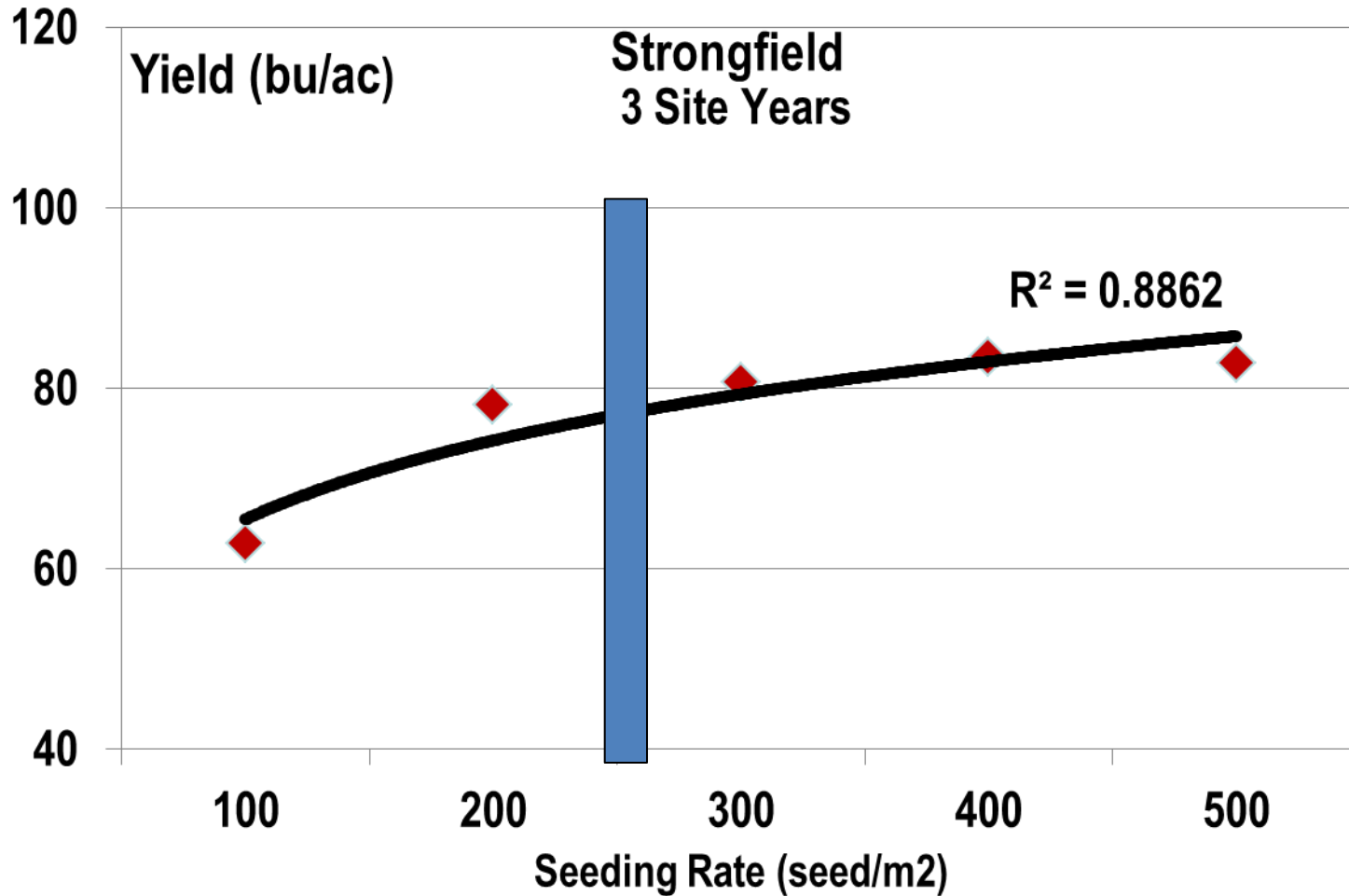
# Seeding Rate vs Yield 2012



	lbs/ac				
Sadash	45	90	135	180	225
Strongfield	60	120	180	240	300

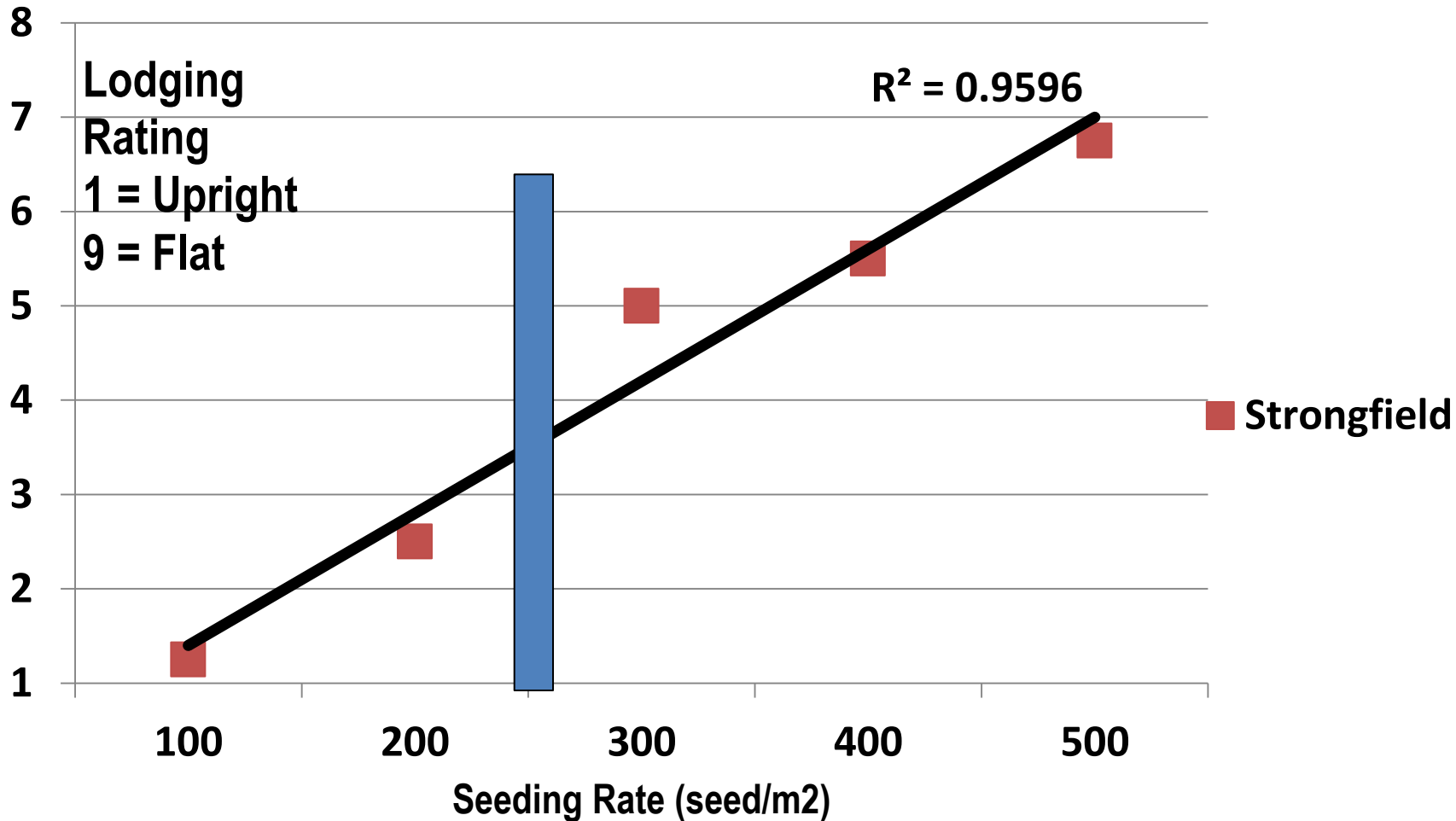


# Seeding Rate vs Yield – Durum (2010-2012)



Strongfield (lbs/ac)	60	120	180	240	300
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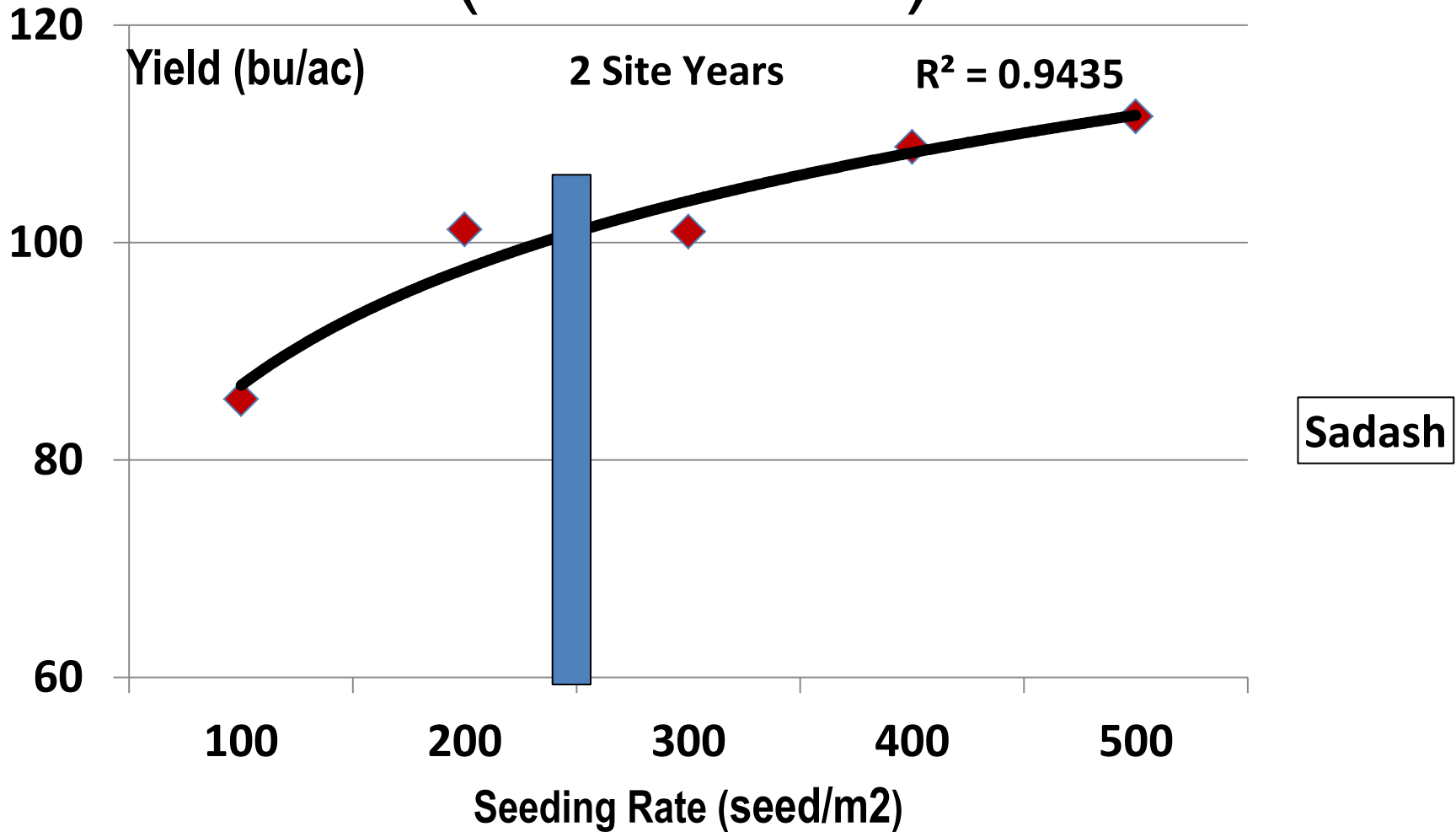
# Seeding Rate vs Lodging - Durum



Strongfield (lbs/ac)	60	120	180	240	300
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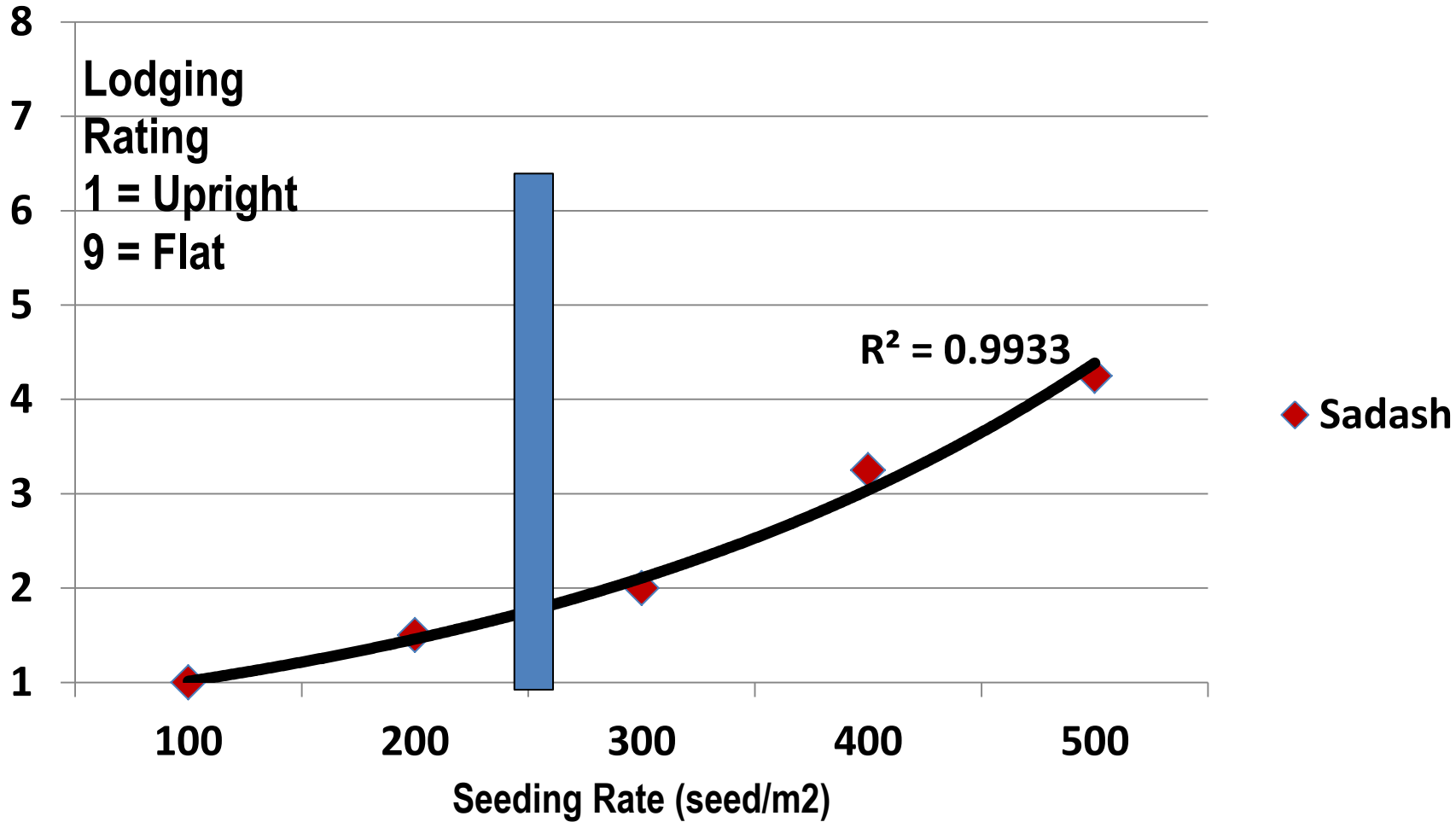
# Seeding Rate vs Yield – Soft White

## (2010/2012)



Sadash (lbs/ac)	45	90	135	180	225
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# Seeding Rate vs Lodging - SWS



Sadash (lbs/ac)	45	90	135	180	225
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# Durum & SWS Seed Rate Summary



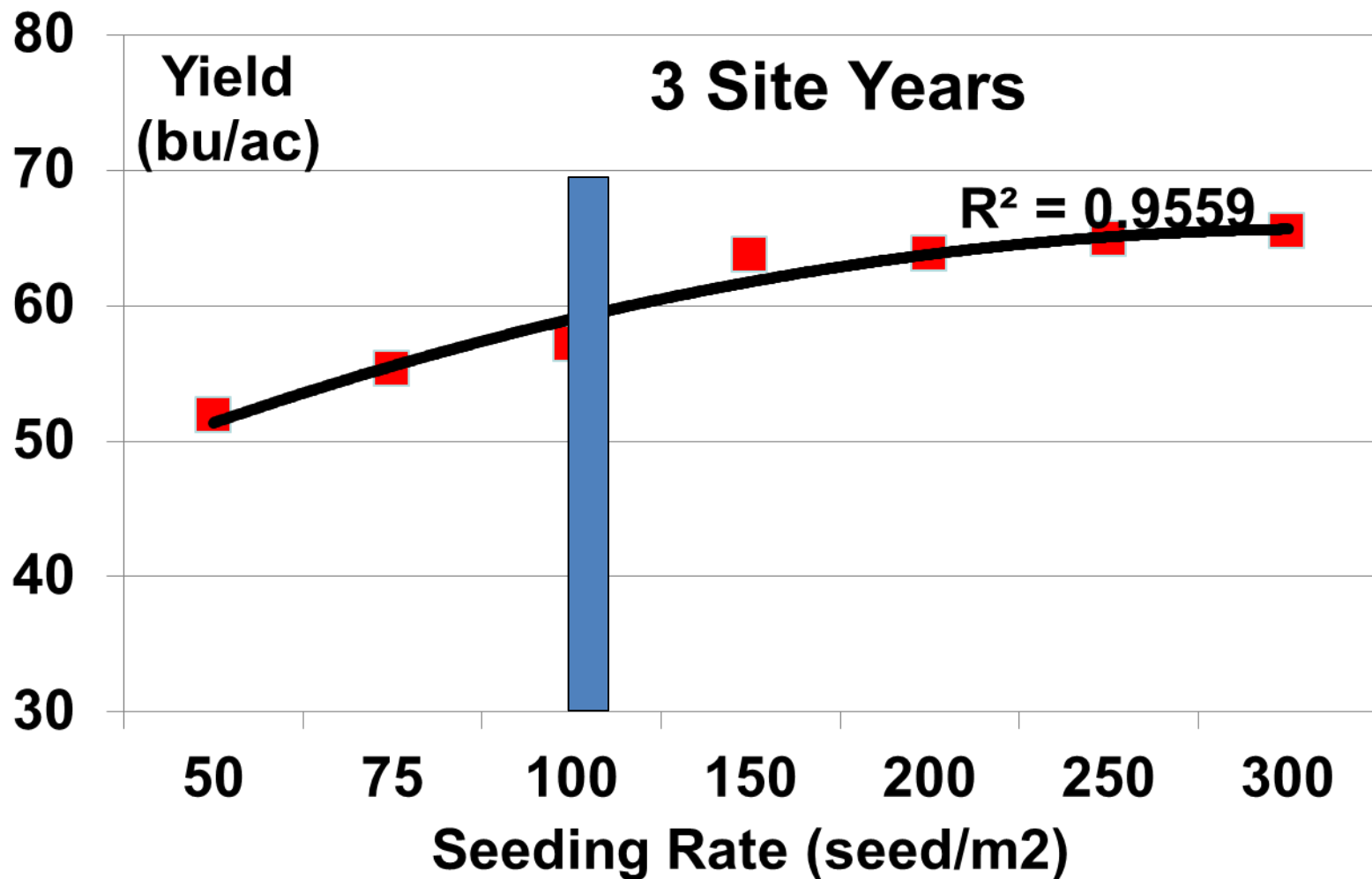
- Grain yield of both durum and soft white wheat increased as seeding rates increased.
- Increases in seeding rate beyond present recommendations did not affect protein, test weight, TKW, plant height or maturity but did increase lodging (all data not presented).
- For Durum modest yield increases to higher seeding rates do not warrant the much higher degree of lodging. **Maintain present target populations.**
- For SWS higher seeding rates **may be** warranted without affecting harvest management. SWS will be evaluated further in 2013.

# Seeding Rate - Canola



<b>Seeding Rate (plants/m<sup>2</sup>)</b>	<b>45H21 Seeding Rate lb./acre</b>	<b>5440 Seeding Rate lb./acre</b>
<b>50</b>	<b>3.0</b>	<b>2.5</b>
<b>75</b>	<b>4.5</b>	<b>3.7</b>
<b>100</b>	<b>5.9</b>	<b>4.9</b>
<b>150</b>	<b>9.0</b>	<b>7.5</b>
<b>200</b>	<b>12.0</b>	<b>10.0</b>
<b>250</b>	<b>14.9</b>	<b>12.4</b>
<b>300</b>	<b>17.9</b>	<b>14.9</b>

# Seeding Rate vs Yield – Canola (2011/2012)



≈ Rate (lbs/ac) 2.5    3.7    5.0    7.5    10    12.5    15.0