

2017 Wheat Variety Selection

Small Grains Update

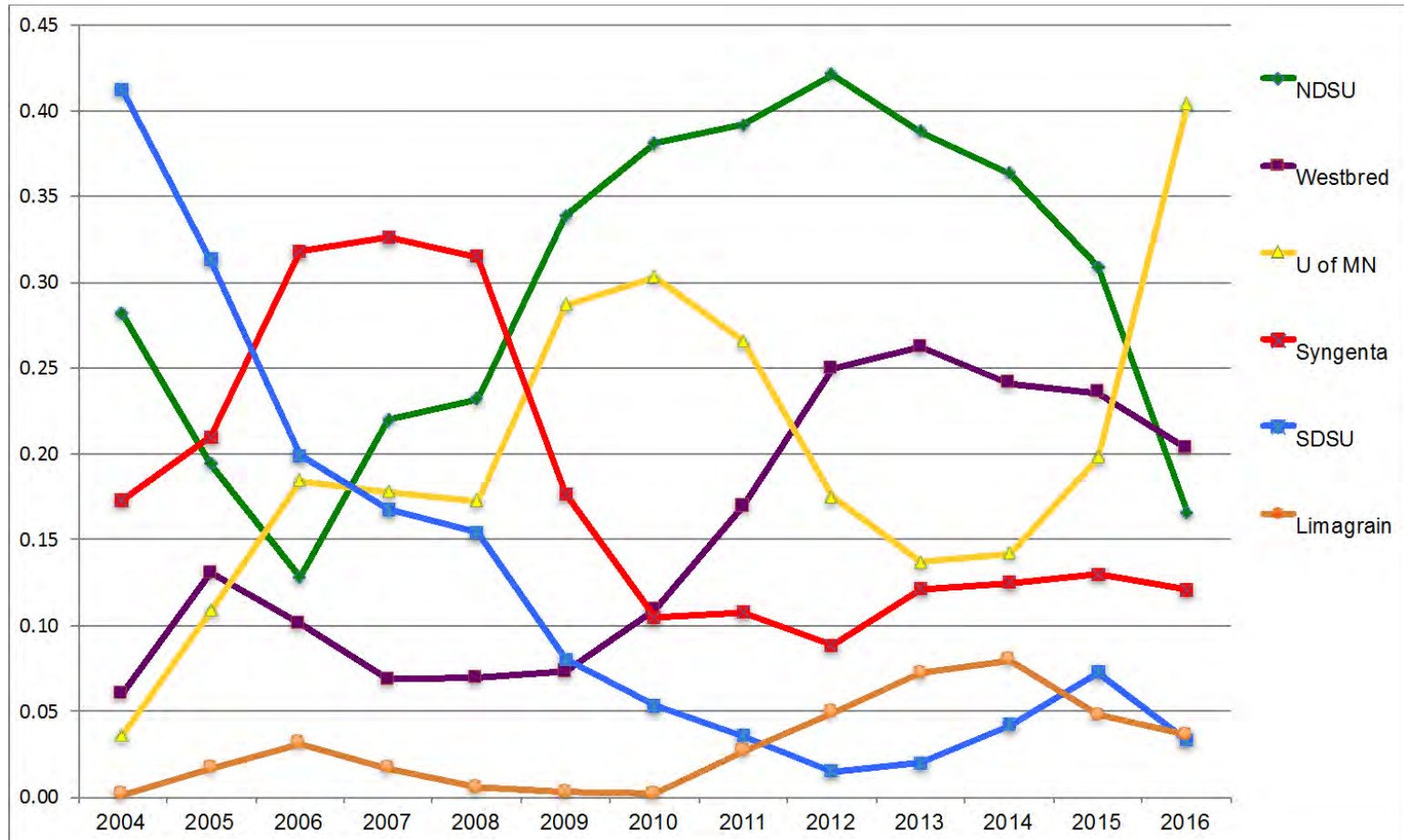
Jim Anderson & Jochum Wiersma



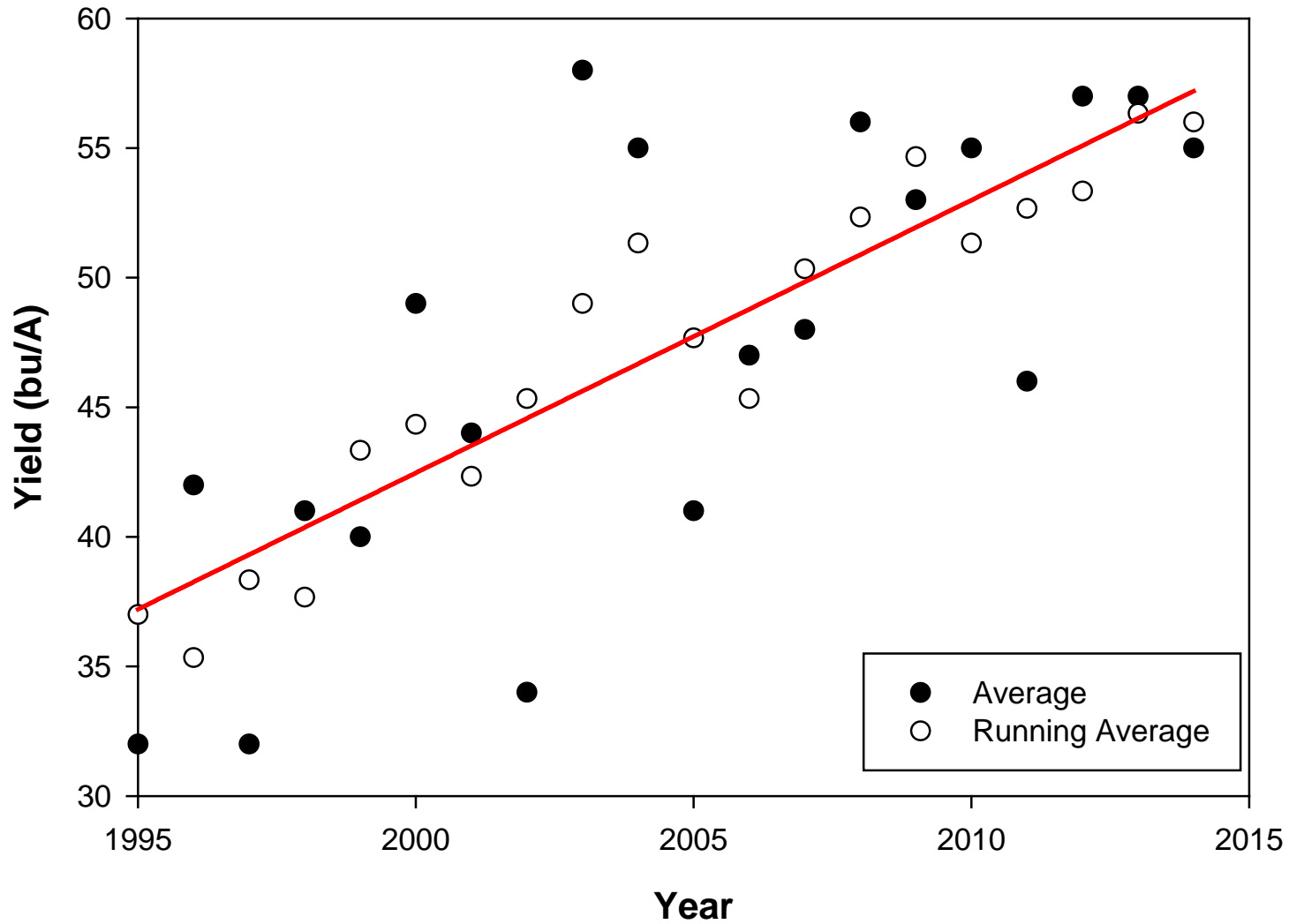
UNIVERSITY OF MINNESOTA

Driven to Discover™

Minnesota's HRSW Acreage



Making Progress



First Impressions

<i>Variety</i>	<i>Pluses</i>	<i>Minuses</i>
Boost (SDSU)	LR	LD (for SDSU)
Dyna-Gro Ambush		
HRS 3616 (Croplan)	Balanced	
LCS Anchor (Limagrain)		
LSS Prime (Limagrain)		
Shelly (UofM)	YLD	
Surpass (SDSU)		
TCG-Cornerstone	LD	
TCG-Spitfire	LD	
TCG-Wildfire	LD	



Straw Strength

Entry	Straw Strength	Entry	Straw Strength
Linkert	2	Boost	5
HRS 3361	3	Ambush	5
HRS 3419	3	Faller	5
HRS 3504	3	Glenn	5
Norden	3	HRS 3530	5
Rollag	3	LCS Albany	5
TCG-Cornerstone	3	LCS Anchor	5
TCG-Spitfire	3	LCS Nitro	5
WB-Mayville	3	LCS Prime	5
Bolles	4	RB07	5
Chevelle	4	Shelly	5
HRS 3616	4	SY Rowyn	5
LCS Breakaway	4	WB9507	5
LCS Iguacu	4	Elgin-ND	6
Prevail	4	Forefront	6
SY Ingmar	4	Prosper	6
SY Soren	4	Focus	7
SY Valda	4	Surpass	7
TCG-Wildfire	4		
WB9653	4		

- 2-3: Very good
- 4-5: Classical HRSW and adequate in most circumstances
- 6-7: Weaker HRSW and lodging problems a real possibility



Leaf Rust

Entry	Leaf rust	Entry	Leaf rust
Bolles	1	Rollag	4
Boost	2	Shelly	4
Elgin-ND	2	Faller	5
Forefront	2	Glenn	5
LCS Albany	2	Prosper	5
Norden	2	WB9507	8
Prevail	2	Chevelle	–
RB07	2	Dyna-Gro Ambush	–
SY Soren	2	HRS 3504	–
Focus	3	HRS 3530	–
HRS 3361	3	HRS 3616	–
Breakaway	3	LCS Anchor	–
SY Ingmar	3	LCS Prime	–
SY Rowyn	3	Surpass	–
WB-Mayville	3	SY Valda	–
HRS 3419	4	TCG-Cornerstone	–
LCS Iguacu	4	TCG-Spitfire	–
LCS Nitro	4	TCG-Wildfire	–
Linkert	4	WB9653	–

- Overall pressure very light in 2015 & 2016
- Rating < 4 no problems expected
- Rating > 4 requires active scouting



Stripe Rust

- Damaged susceptible varieties in 2015 & 2016. Inoculum coming from Great Plains winter wheat, favored by cooler temps.
- Most varieties have adequate resistance, but there are some notable susceptibles

Stripe Rust Reactions



Resistant



Intermediate



Susceptible



Stripe Rust

Entry	Stripe Rust	Entry	Stripe Rust
Bolles	1	SY Soren	2
Chevelle	1	SY Valda	2
Glenn	1	WB9653	2
HRS 3419	1	Focus	3
Linkert	1	HRS 3361	3
Norden	1	HRS 3530	3
Prevail	1	LCS Albany	3
Rollag	1	WB-Mayville	3
Shelly	1	LCS Prime	4
SY Rowyn	1	Faller	5
Boost	2	LCS Iguacu	5
Elgin-ND	2	Prosper	5
Forefront	2	WB9507	8
HRS 3504	2	Ambush	–
Breakaway	2	HRS 3616	–
LCS Nitro	2	LCS Anchor	–
RB07	2	TCG-Cornerstone	–
Surpass	2	TCG-Spitfire	–
SY Ingmar	2	TCG-Wildfire	–



FHB

Entry	Scab	Entry	Scab
Forefront	3	WB9507	4
Glenn	3	Chevelle	5
Rollag	3	Elgin-ND	5
Bolles	4	HRS 3361	5
Boost	4	HRS 3419	5
Faller	4	LCS Breakaway	5
Focus	4	LCS Nitro	5
HRS 3530	4	Linkert	5
LCS Albany	4	Prosper	5
LCS Iguacu	4	SY Soren	5
LCS Prime	4	WB9653	5
Norden	4	HRS 3504	6
Prevail	4	WB-Mayville	7
RB07	4	Ambush	–
Shelly	4	HRS 3616	–
Surpass	4	LCS Anchor	–
SY Ingmar	4	TCG-Cornerstone	–
SY Rowyn	4	TCG-Spitfire	–
SY Valda	4	TCG-Wildfire	–

- Best Fungicides (Caramba & Prosaro) are reducing damage by ~70%
- Larger application window may be effective (anthesis to 6 days later)



BLS

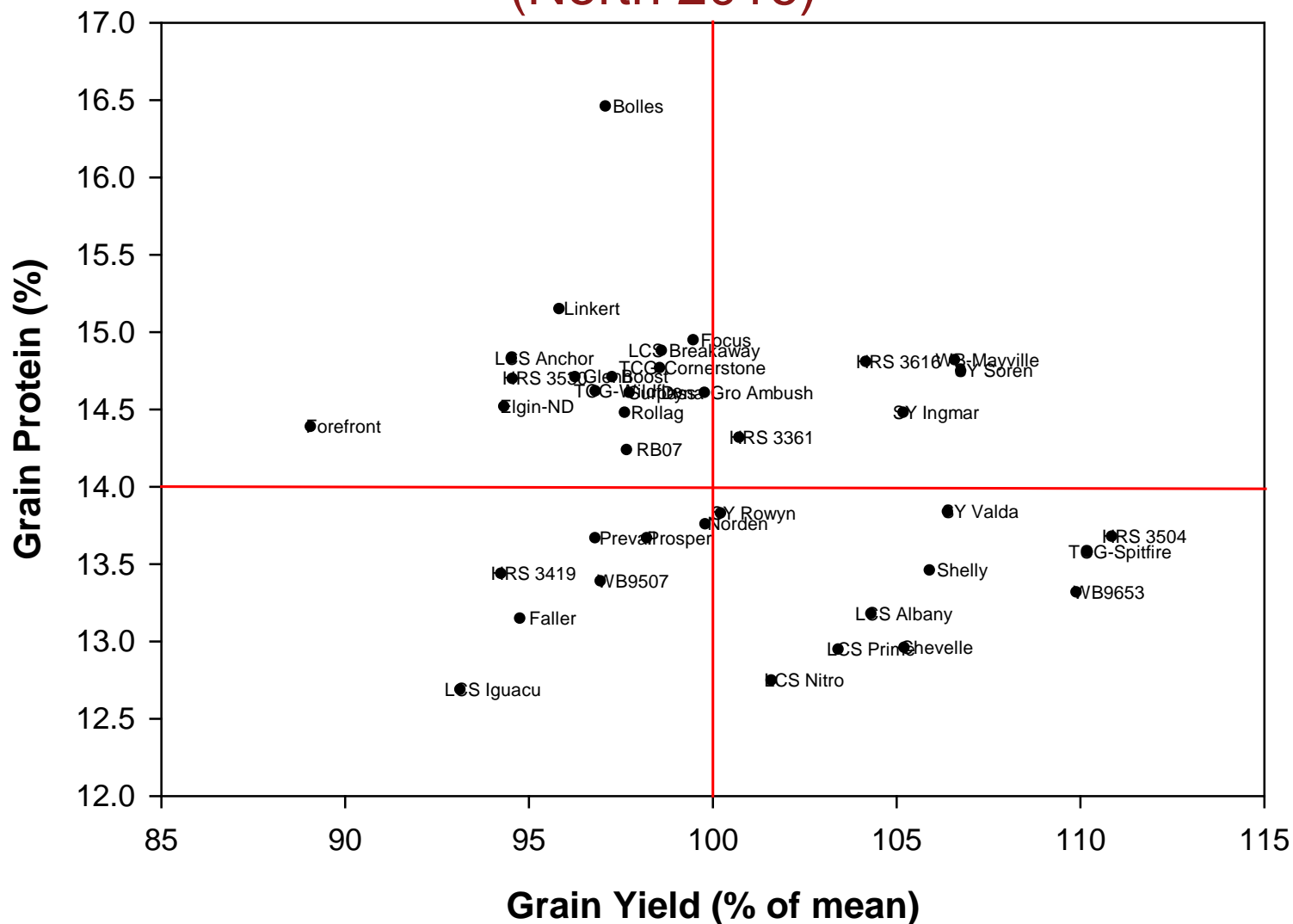
Entry	BLS	Entry	BLS
Boost	2	HRS 3419	6
Prevail	2	LCS Albany	6
SY Rowyn	2	LCS Nitro	6
Focus	3	RB07	6
Forefront	3	WB-Mayville	6
Breakaway	3	WB9507	6
SY Ingmar	3	Chevelle	–
Bolles	4	Ambush	–
Faller	4	HRS 3504	–
Glenn	4	HRS 3530	–
HRS 3361	4	HRS 3616	–
LCS Iguacu	4	LCS Anchor	–
Linkert	4	LCS Prime	–
Norden	4	Surpass	–
Prosper	4	SY Valda	–
Rollag	4	TCG-Cornerstone	–
Shelly	4	TCG-Spitfire	–
SY Soren	4	TCG-Wildfire	–
Elgin-ND	5	WB9653	–

- No control options, but there are differences among variety responses (select <5)
- Not much disease in 2015 or 2016, much worse in 2014.



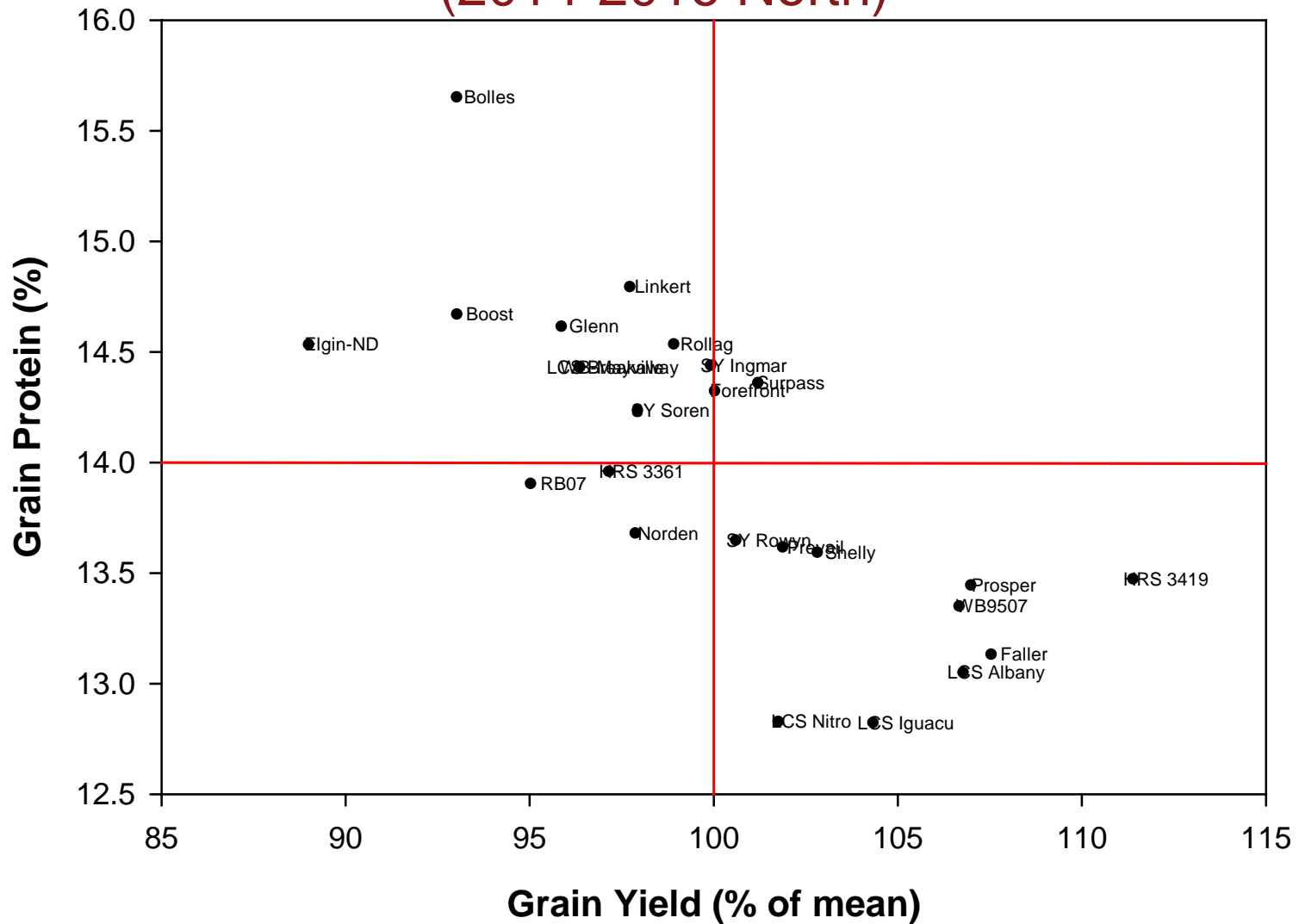
Yield and Grain Protein

(North 2016)



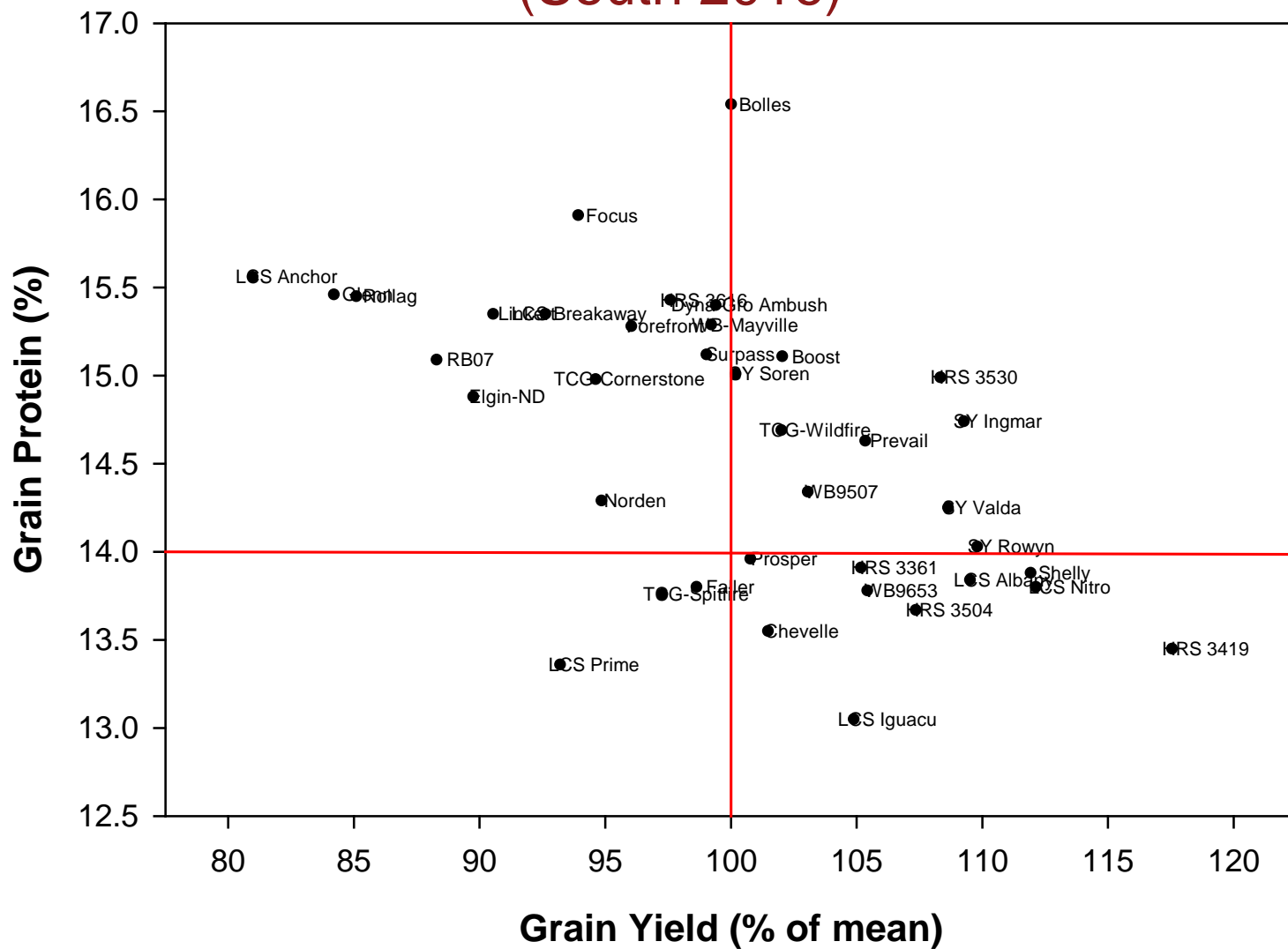
Yield and Grain Protein

(2014-2016 North)



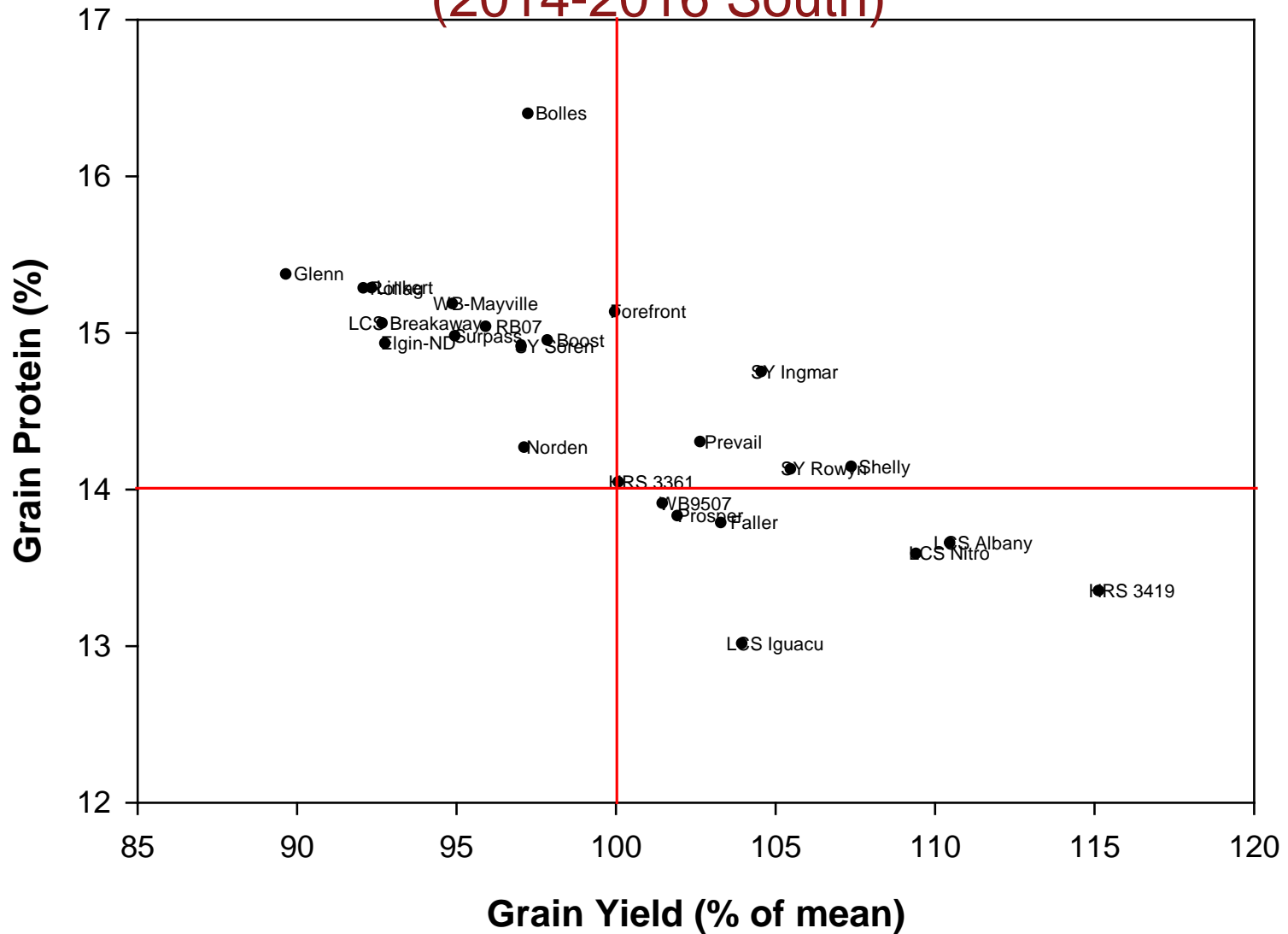
Yield and Grain Protein

(South 2016)



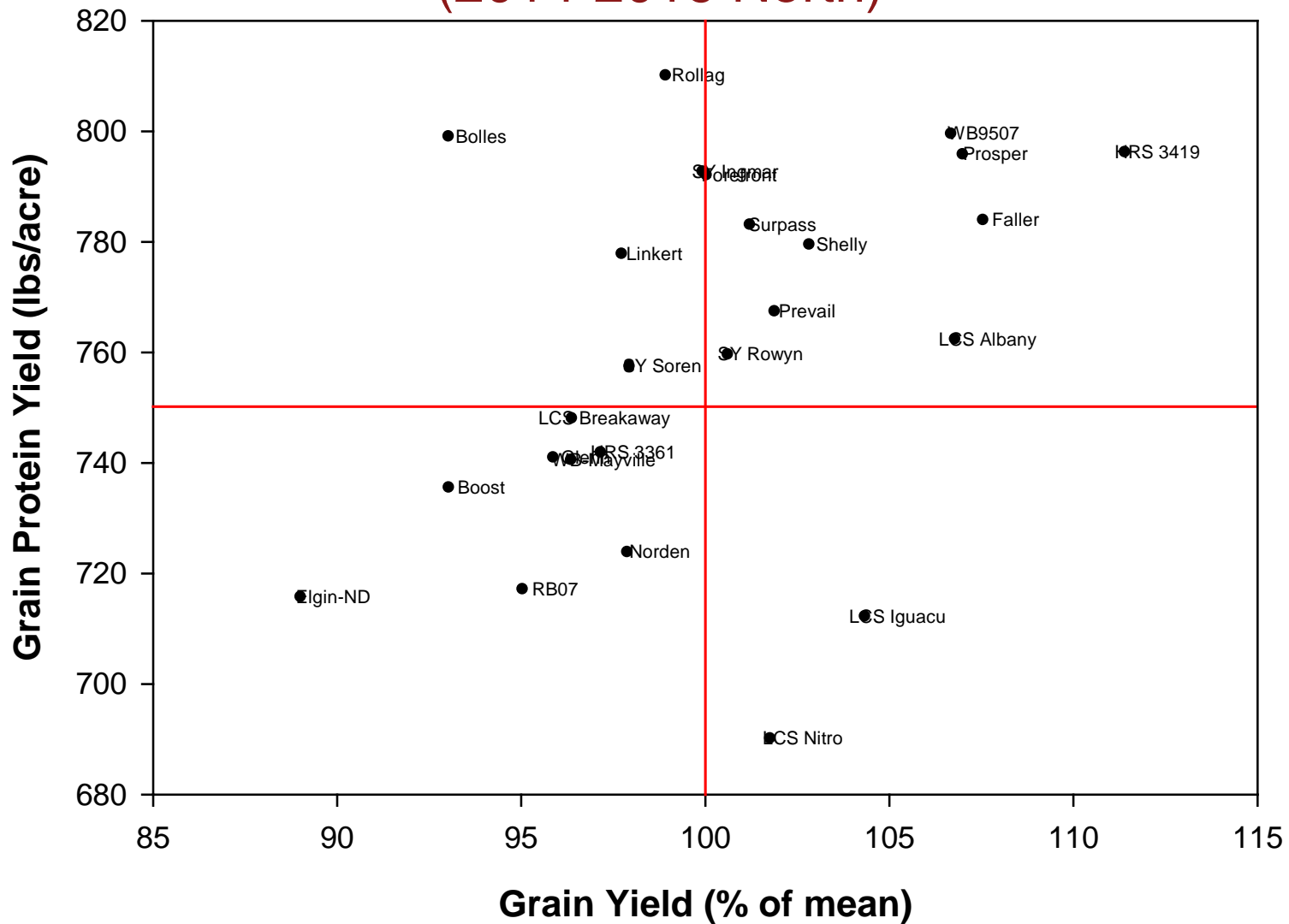
Grain and Grain Protein

(2014-2016 South)



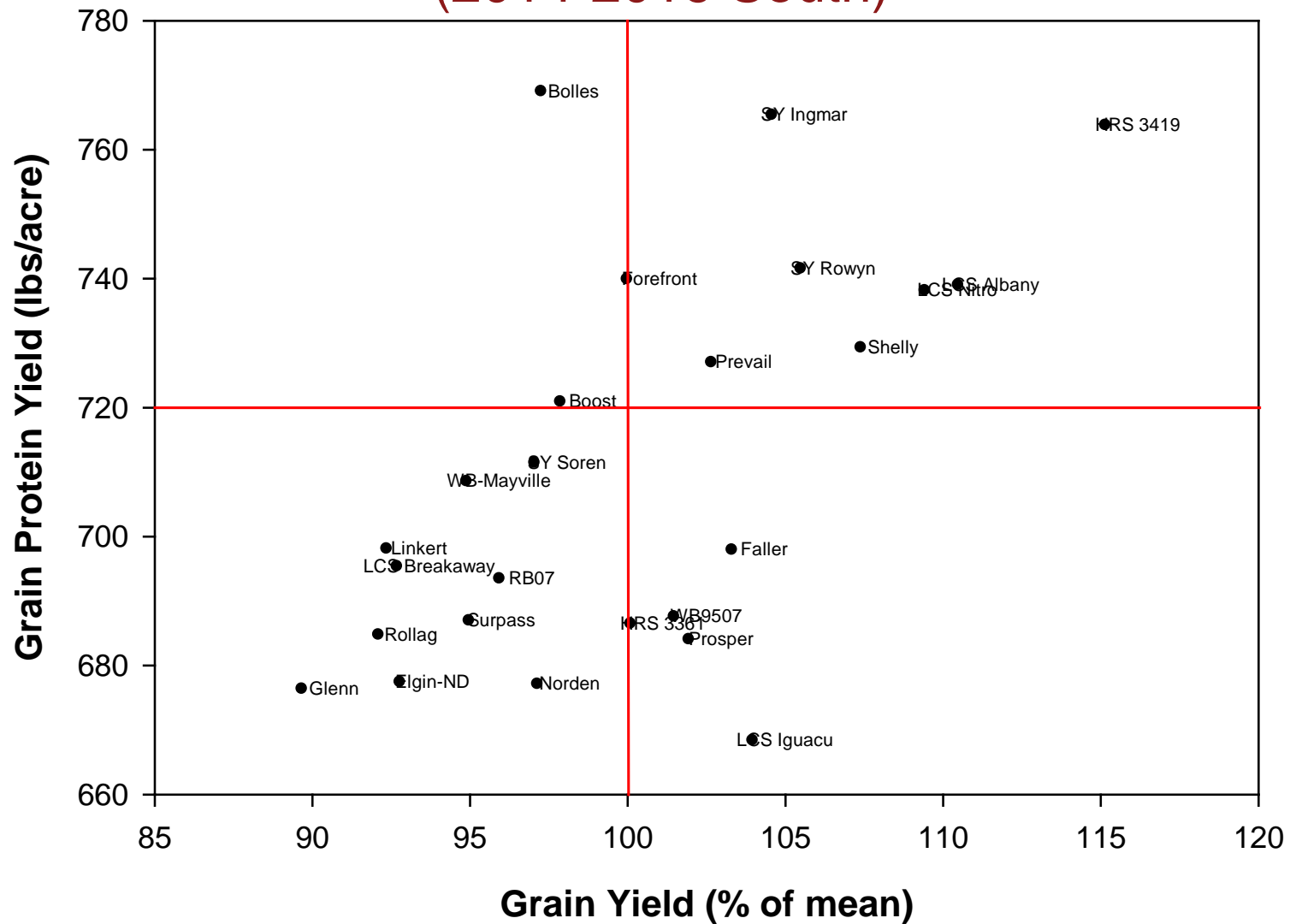
Nitrogen Use Efficiency

(2014-2016 North)

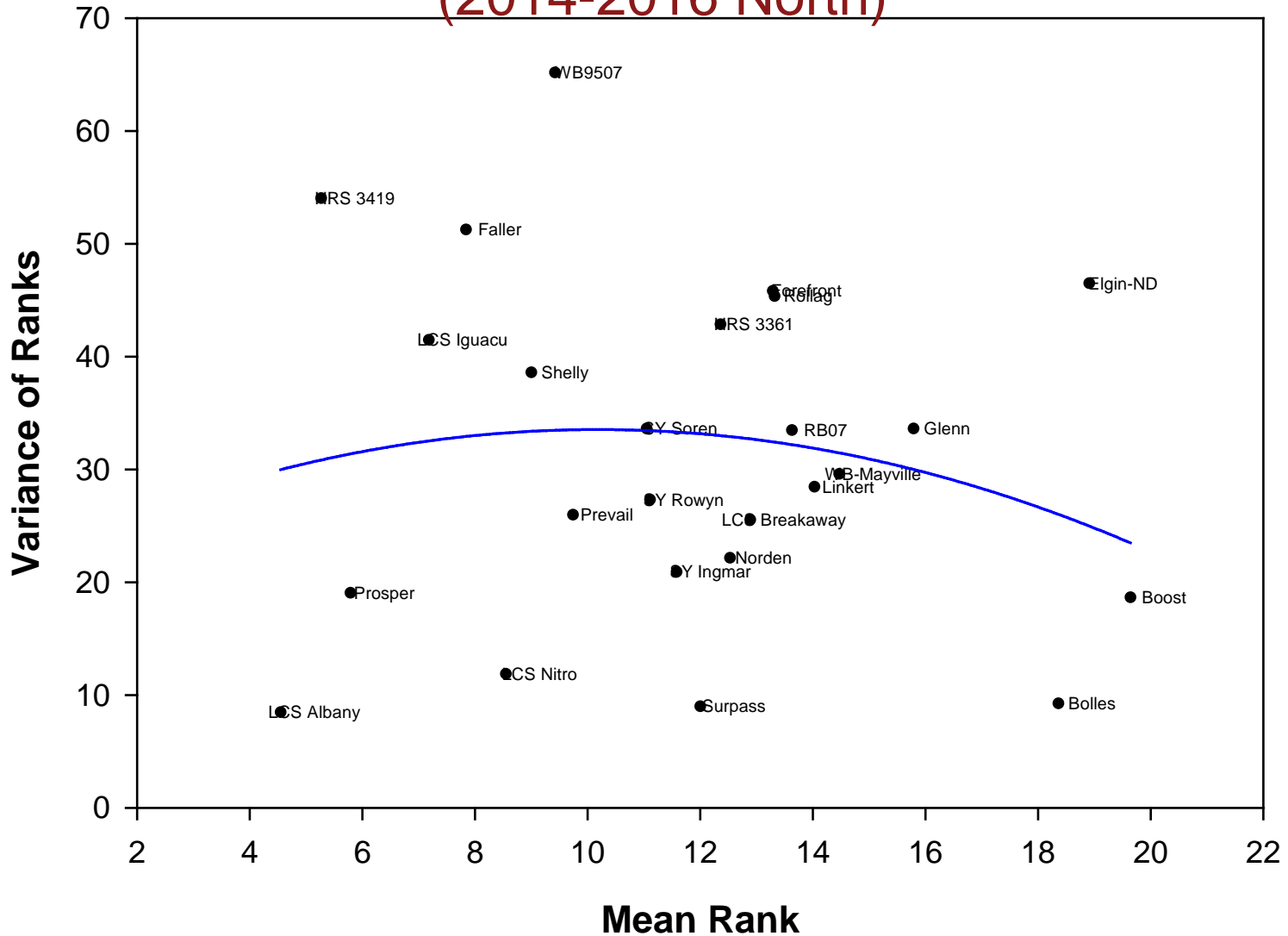


Nitrogen Use Efficiency

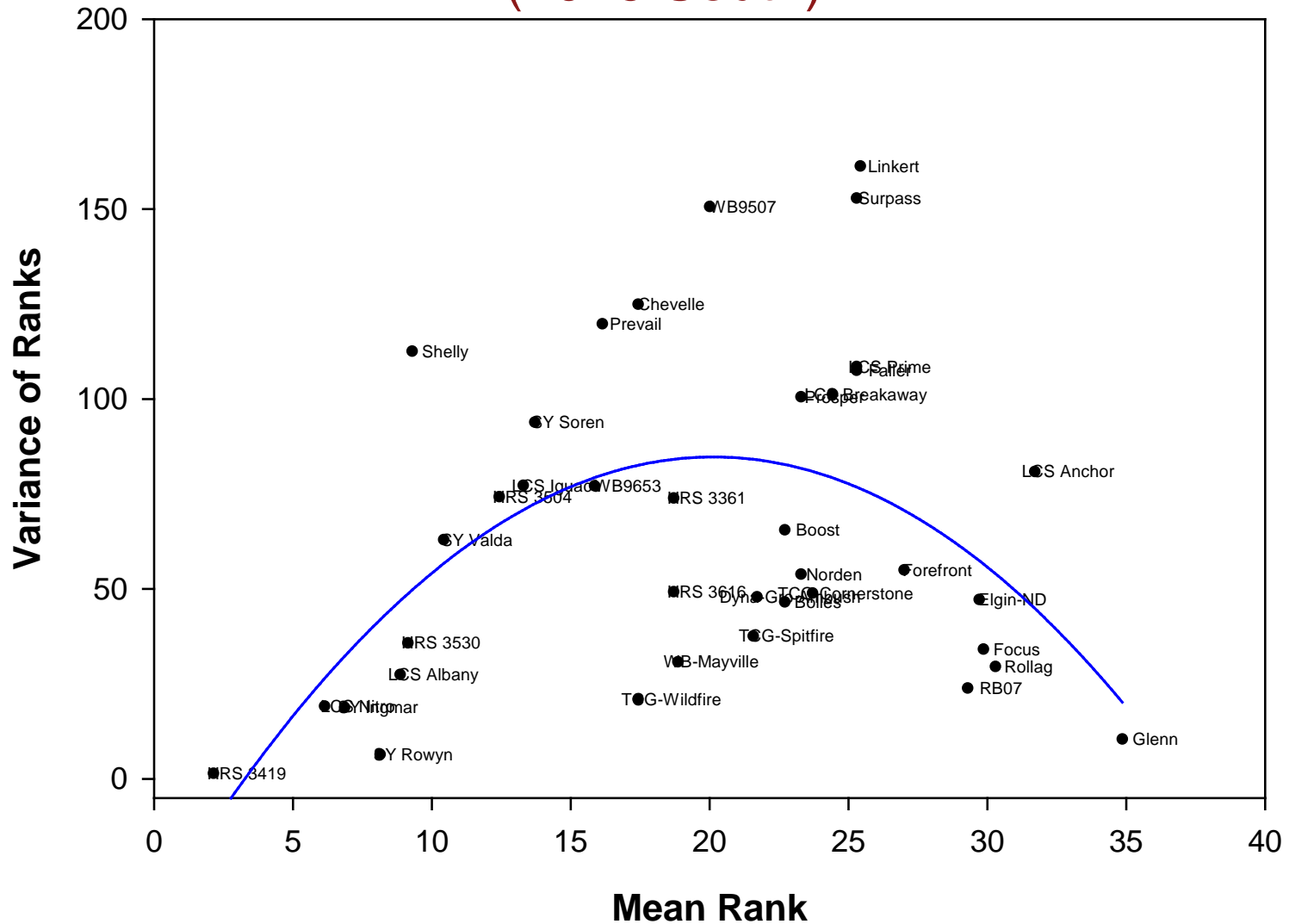
(2014-2016 South)



Rank Stability (2014-2016 North)

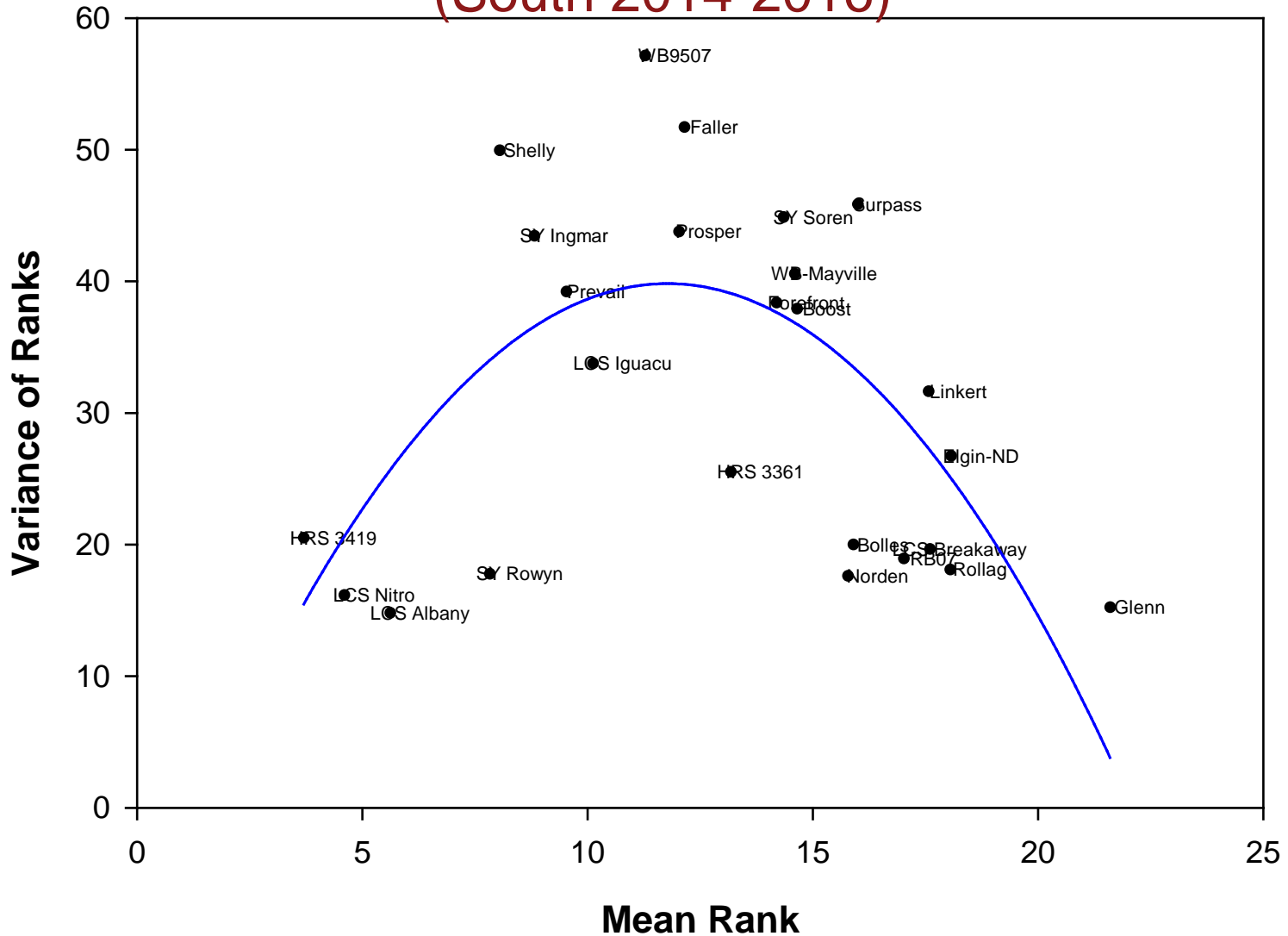


Rank Stability (2016 South)



Rank Stability

(South 2014-2016)



Picks

<i>Variety</i>	<i>Pluses</i>	<i>Minuses</i>
Bolles	GP	TWT
HRS 3419	YLD	GP, BLS
Linkert	GP, LD	
LCS Albany	YLD, FHB	GP, PHS, BLS
Prevail	YLD, BLS	
Prosper	YLD	GP, LR, SR, LD
Rollag	LD, FHB, GP	Early seeding
Shelly	YLD	
SY-Ingmar	Balanced, BLS	



Watch List

<i>Variety</i>	<i>Pluses</i>	<i>Minuses</i>
SY Valda	YLS	GP
HRS3530	YLD	

