

2012 Collaborative Wheat Quality Evaluation Program



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2012 Collaborative Wheat Quality Evaluation Program

- What is it?
- How does it work?
- Why participate?
- Who does it benefit?

2012 Collaborative Wheat Quality Evaluation Program


- What is it?
 - Collaboration between breeders, mills, farmers, and end-users
 - Test lines for potential release
 - Collaborator meeting
 - Discusses new developments and activities in wheat world
 - Round-table discussion
 - Breeders showcase new lines
 - Mills evaluate those lines' potential

2012 Collaborative Wheat Quality Evaluation Program



- How does it work?
- Call for entries into UC Regional Cereal Evaluation Tests
- Ask breeders to submit top lines for potential release
 - Grow entries in 80-foot strips
 - Yields ~ 100 pounds per entry
 - Sent to collaborating mills for quality analysis

2012 Collaborative Wheat Quality Evaluation Program



- How does it work?
- Check Varieties
 - Known high performers for head-to-head comparisons
 - Common Wheat
 - Cal Rojo (Red Wheat)
 - Blanca Grande 515 (White Wheat)
 - Durum Wheat
 - Kronos

2012 Collaborative Wheat Quality Evaluation Program

- How does it work?
- Check Varieties
 - Replicated three times and mixed together
 - Check reproducibility of the results from mills

		ADM	CARGILL	CFP	CONAGRA	CWC		ADM	CARGILL	CFP	CONAGRA	CWC
ENTRY NAME		PRO	PRO	PRO	PRO	PRO		Vol	Vol	Vol	Vol	Vol
		%	%	%	%	%						
CAL ROJO		13.25	12.98	13.20	13.20	12.74		2850	873	3104	2625	965
BLANCA GRANDE 515		13.96	14.13	14.10	14.10	13.64		2700	885	2986	2525	985
WB DA905-10		12.59	12.70	12.60	12.60	12.27		2775	885	2986	2575	970
CLEAR WHITE 515		14.73	14.78	14.60	14.60	14.32		2775	898	3074	2550	950
PATWIN 515		12.54	12.68	12.50	12.40	12.36		2700	865	2897	2500	910
UC 1715		13.72	13.81	13.70	13.70	13.72		2700	853	2633	2575	925
ATOMO		12.64	12.91	12.80	12.70	12.54		2700	788	3104	2500	900
08SB0073		13.21	13.39	13.30	13.20	12.82		2750	828	2721	2575	940
CAL ROJO		13.35	13.16	13.20	13.40	12.98		3000	893	3045	2725	1000
BLANCA GRANDE 515		14.08	14.01	14.00	13.90	13.80		2775	918	2868	2550	1030
WB-JOQUIN ORO		14.82	14.86	14.90	14.80	14.68		2775	955	2927	2500	1000
WB-PERLA		14.74	14.70	14.80	14.70	14.51		2700	905	2986	2550	1000
WB SJ907-229		14.90	14.90	14.90	14.80	14.62		2900	958	3015	2550	1025
APB W9-3AL		13.35	13.51	13.10	13.10	13.21		2600	833	2927	2400	925
APB NM-1		12.41	12.41	12.50	12.40	12.05		2775	863	2691	2600	890
APB MC-1		12.91	12.77	13.00	12.80	12.67		3000	878	3104	2700	925
CAL ROJO		13.20	13.07	13.00	13.10	12.72		2900	945	3074	2650	930
BLANCA GRANDE 515		14.06	14.10	14.10	13.90	13.87		2700	890	2868	2500	960
CAL ROJO MIX AVERAGE		13.3	13.1	13.1	13.2	12.8		2916.7	903.7	3074.1	2666.7	965.0
BLANCA GRANDE 515 MIX AVERAGE		14.0	14.1	14.1	14.0	13.8		2725.0	897.7	2907.3	2525.0	991.7
LAB VARIATION CAL ROJO MIX		0.58%	0.69%	0.88%	1.15%	1.13%		2.62%	4.11%	0.96%	1.95%	3.63%
LAB VARIATION BLANCA GRANDE 515 MIX		0.46%	0.44%	0.41%	0.83%	0.86%		1.59%	1.98%	2.34%	0.99%	3.58%



Very good consistency. All within 5%

2012 Collaborative Wheat Quality Evaluation Program

- How does it work?
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 - Replicated three times and mixed together
 - Check reproducibility of the results from mills
- Samples sent without names

2012 Collaborative Durum Entry List		
Sample	UC Entry #	Name
1	951	KRONOS
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

2012 Collaborative Common Wheat Entry List			
Sample	UC Entry #	Name	Type
1	1478	CAL ROJO	HRS
2	1657	BLANCA GRANDE 515	HWS
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			


2012 Collaborative Wheat Quality Evaluation Program

- How does it work?
 - Check Varieties
 - Replicated three times and mixed together
 - Check reproducibility of the results from mills
 - Samples sent without names
 - Processed for quality analysis
 - Ranked by mills to show favorable traits

2012 Collaborative Wheat Quality Evaluation Program

- Why participate?
- Regional testing submits samples for quality to CWC
 - Multiple mills
 - Collaborator meeting
 - Discussion with mills about what they like and don't

2012 Collaborative Wheat Quality Evaluation Program



- Who benefits?
- Everyone!
 - Breeders – Feedback from mills
 - Mills – Chance to tell breeders what they're looking for
 - Farmers – Learn which new varieties are favorable to mills
 - End-users – Higher quality products

Collaborators

Breeding Companies

Arizona Plant Breeders

Limagrain

Resource Seeds, Inc. (Syngenta)

University of California

WestBred (Monsanto)

Collaborators

Milling Companies

ADM Milling Co.

California Wheat Commission

Cereal Food Processors, Inc.

Conagra Foods

Horizon Milling (Cargill)

Miller Milling



Changes to 2012 Collaborative Wheat Program

- Eliminate checks sent to CWC to test for variability in the field – unnecessary
- Change white wheat check variety from Blanca Grande to Blanca Grande 515 – more commonly grown
- Grow common wheat at Davis and SJ Valley
 - SJ Valley – show varieties under standard growing conditions
 - Davis – express full potential of varieties
 - Excluded from testing – missed irrigation and smut problem led to poor quality

2012 Collaborative Durum

2012 Collaborative Durum Entry List				
Sample	UC Entry #	Name	Parentage	Source
1	951	KRONOS	APB MSFRS POP SEL	APB
2	1440	HELIOS	MSFRS pop. Matt α male	APB
3	1640	APB D1-2	D94-1 x MSFRS Population Az	APB
4	1690	UC 1690	WWW D6523/UC1308	UC
5	1717	UC 1717	MOHAWK/UC1375	UC
6	951	KRONOS	APB MSFRS POP SEL	APB
7	1719	UC 1719	UC1375/UC1308	UC
8	1720	IMHOTEP		LIMAGRAIN
9	1722	06D2410		LIMAGRAIN
10	1735	APB CP-1		APB
11	1736	APB IM-1		APB
12	951	KRONOS	APB MSFRS POP SEL	APB
SOURCE: APB = Arizona Plant Breeders; LIMAGRAIN = Limagrain Seeds; UC = University of California, Davis				

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8	1720	IMHOTEP		LIMAGRAIN
9	1722	06D2410		LIMAGRAIN
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2012 Collaborative Durum

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)				Protein (%)				Stripe Rust
					Cent Valley	Rank	Imp Valley	Rank	Cent Valley	Rank	Imp Valley	Rank	Overall
1, 6, 12	951	KRONOS	DUR	APB	-	-	-	-	-	-	13.79	7	-
2	1440	HELIOS	DUR	APB	6100	5	7490	4	10.95	8	14.04	5	1.1
3	1640	APB D1-2	DUR	APB	5330	9	7320	6	12.40	1	14.36	2	1.0
4	1690	UC 1690	DUR	UC	6150	3	7600	1	11.48	4	14.14	3	1.0
5	1717	UC 1717	DUR	UC	6170	2	7550	2	12.08	2	14.01	6	1.0
7	1719	UC 1719	DUR	UC	5900	6	7080	7	11.42	5	14.10	4	1.0
8	1720	IMHOTEP	DUR	LIMAGRAIN	6150	3	6870	8	10.89	9	12.93	10	1.9
9	1722	06D2410	DUR	LIMAGRAIN	5640	7	6250	9	11.17	7	16.19	1	1.0
10	1735	APB CP-1	DUR	APB	5340	8	7390	5	11.67	3	13.49	9	1.0
11	1736	APB IM-1	DUR	APB	6480	1	7550	2	11.18	6	13.55	8	1.0

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4	1690	UC 1690	DUR	UC	6150	3	7600	1	11.48	4	14.14	3	1.0
5	1717	UC 1717	DUR	UC	6170	2	7550	2	12.08	2	14.01	6	1.0
7	1719	UC 1719	DUR	UC	5900	6	7080	7	11.42	5	14.10	4	1.0
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9	1722	06D2410	DUR	LIMAGRAIN	5640	7	6250	9	11.17	7	16.19	1	1.0
10	1735	APB CP-1	DUR	APB	5340	8	7390	5	11.67	3	13.49	9	1.0
11	1736	APB IM-1	DUR	APB	6480	1	7550	2	11.18	6	13.55	8	1.0

2012 Collaborative Common Wheat

2012 Collaborative Common Wheat Entry List					
Sample	UC Entry #	Name	Type	Parentage	Source
1	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'/VEE#5/3/BONUS	RSI (SYNGENTA)
2	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)
3	1624	WB DA905-10	HRS	993-191/998-5//SUMMIT/DASH 12	WB (MONSANTO)
4	1679	CLEAR WHITE 515	HWS	Clear White 515 HP Yr5, Yr15, 2NS, Gpc	UC
5	1680	PATWIN 515	HWS	PATWIN Yr5, Yr15	UC
6	1715	UC 1715	HRS	EXPRESS*6/Lr37/RED RIVER 68//SERRA	UC
7	1723	ATOMO	HWS		LIMAGRAIN
8	1724	08SB0073	HRS		LIMAGRAIN
9	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'/VEE#5/3/BONUS	RSI (SYNGENTA)
10	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)
11	1728	WB-JOAQUIN ORO	HRS		WB (MONSANTO)
12	1729	WB-PERLA	HWS		WB (MONSANTO)
13	1730	WB SJ907-229	HRS		WB (MONSANTO)
14	1734	APB W9-3AL	HWS		APB
15	1737	APB NM-1	HRS		APB
16	1738	APB MC-1	HRS		APB
17	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'/VEE#5/3/BONUS	RSI (SYNGENTA)
18	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)
TYPE: HRS = Hard Red Spring; HWS = Hard White Spring SOURCE: APB = Arizona Plant Breeders; LIMAGRAIN = Limagrain Seeds; RSI (SYNGENTA) = Resource Seeds, Inc.; UC = University of California, Davis; WB (MONSANTO) = Westbred LLC					

2012 Collaborative Common Wheat

2012 Collaborative Common Wheat Entry List					
Sample	UC Entry #	Name	Type	Parentage	Source
1	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'VEE#5/3/BONUS	RSI (SYNGENTA)
2	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)
3	1624	WB DA905-10	HRS	993-191/998-5//SUMMIT/DASH 12	WB (MONSANTO)
4	1679	CLEAR WHITE 515	HWS	Clear White 515 HP Yr5, Yr15, 2NS, Gpc	UC
5	1680	PATWIN 515	HWS	PATWIN Yr5, Yr15	UC
6	1715	UC 1715	HRS	EXPRESS*6/Lr37/RED RIVER 68//SERRA	UC
7	1723	ATOMO	HWS		LIMAGRAIN
8	1724	08SB0073	HRS		LIMAGRAIN
9	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'VEE#5/3/BONUS	RSI (SYNGENTA)
10	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)
11	1728	WB-JOAQUIN ORO	HRS		WB (MONSANTO)
12	1729	WB-PERLA	HWS		WB (MONSANTO)
13	1730	WB SJ907-229	HRS		WB (MONSANTO)
14	1734	APB W9-3AL	HWS		APB
15	1737	APB NM-1	HRS		APB
16	1738	APB MC-1	HRS		APB
17	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'VEE#5/3/BONUS	RSI (SYNGENTA)
18	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)

TYPE: HRS = Hard Red Spring; HWS = Hard White Spring

SOURCE: APB = Arizona Plant Breeders; LIMAGRAIN = Limagrain Seeds; RSI (SYNGENTA) = Resource Seeds, Inc.;

UC = University of California, Davis; WB (MONSANTO) = Westbred LLC

2012 Collaborative Common Wheat

2012 Collaborative Common Wheat Entry List					
Sample	UC Entry #	Name	Type	Parentage	Source
1	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'/VEE#5/3/BONUS	RSI (SYNGENTA)
2	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)
3	1624	WB DA905-10	HRS	993-191/998-5//SUMMIT/DASH 12	WB (MONSANTO)
4	1679	CLEAR WHITE 515	HWS	Clear White 515 HP Yr5, Yr15, 2NS, Gpc	UC
5	1680	PATWIN 515	HWS	PATWIN Yr5, Yr15	UC
6	1715	UC 1715	HRS	EXPRESS*6/Lr37/RED RIVER 68//SERRA	UC
7	1723	ATOMO	HWS		LIMAGRAIN
8	1724	08SB0073	HRS		LIMAGRAIN
9	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'/VEE#5/3/BONUS	RSI (SYNGENTA)
10	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)
11	1728	WB-JOAQUIN ORO	HRS		WB (MONSANTO)
12	1729	WB-PERLA	HWS		WB (MONSANTO)
13	1730	WB SJ907-229	HRS		WB (MONSANTO)
14	1734	APB W9-3AL	HWS		APB
15	1737	APB NM-1	HRS		APB
16	1738	APB MC-1	HRS		APB
17	1478	CAL ROJO	HRS	CMT1171-4//PFAU'S'/VEE#5/3/BONUS	RSI (SYNGENTA)
18	1657	BLANCA GRANDE 515	HWS	Blanca Grande Yr5, Yr15	RSI (SYNGENTA)

TYPE: HRS = Hard Red Spring; HWS = Hard White Spring

SOURCE: APB = Arizona Plant Breeders; LIMAGRAIN = Limagrain Seeds; RSI (SYNGENTA) = Resource Seeds, Inc.;

UC = University of California, Davis; WB (MONSANTO) = Westbred LLC

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Performance of 2012 Collaborative Entries in Regional Trials																			
Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripes		
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley			Rust	
						Rank		Rank		Rank		Rank		Rank		Rank			Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11		-	-	11.97	10	13.22	8		1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4		-	-	12.83	7	13.72	5		1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5		10.11	12	11.78	12	12.92	11		3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14		11.72	5	12.84	6	14.09	3		1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8		11.59	6	12.08	9	12.98	10		1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13		11.39	7	13.33	2	14.00	4		1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2		10.57	11	12.20	8	12.30	13		1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12		11.32	8	11.97	10	12.65	12		1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3		12.70	1	13.38	1	13.66	6		1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6		12.06	2	13.13	4	13.66	6		1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7		11.85	3	13.15	3	14.54	1		1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9		11.80	4	12.89	5	14.27	2		1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1		10.66	10	10.70	14	11.21	14		1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10		10.69	9	11.75	13	13.20	9		1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source		Yield (lb/acre)							Protein (%)						Stripe Rust Overall
						Sac Valley		SJ Valley		Imp Valley			Sac Valley		SJ Valley		Imp Valley		
							Rank		Rank		Rank			Rank		Rank		Rank	
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)		4000	13	4940	13	6790	11		-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)		3470	14	5790	5	7670	4		-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)		5770	2	6250	2	7560	5		10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC		5210	5	5190	12	6700	14		11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC		4940	7	5880	4	7250	8		11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC		5400	3	5480	8	6730	13		11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN		5970	1	6300	1	8300	2		10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN		5070	6	5260	11	6760	12		11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)		4630	9	5440	9	7840	3		12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)		4360	10	5640	7	7540	6		12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)		5280	4	6060	3	7510	7		11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB		4770	8	5350	10	7180	9		11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB		4150	11	5730	6	8410	1		10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB		4010	12	4940	13	7160	10		10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Performance of 2012 Collaborative Entries in Regional Trials																		
Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripes	
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley			Rust
						Rank		Rank		Rank		Rank		Rank		Rank		
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11		-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4		-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5		10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14		11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8		11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13		11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2		10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12		11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3		12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6		12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7		11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9		11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1		10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10		10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Performance of 2012 Collaborative Entries in Regional Trials																			
Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripes		
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley			Rust	
						Rank		Rank		Rank		Rank		Rank		Rank			
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11		-	-	11.97	10	13.22	8		1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4		-	-	12.83	7	13.72	5		1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5		10.11	12	11.78	12	12.92	11		3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14		11.72	5	12.84	6	14.09	3		1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8		11.59	6	12.08	9	12.98	10		1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13		11.39	7	13.33	2	14.00	4		1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2		10.57	11	12.20	8	12.30	13		1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12		11.32	8	11.97	10	12.65	12		1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3		12.70	1	13.38	1	13.66	6		1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6		12.06	2	13.13	4	13.66	6		1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7		11.85	3	13.15	3	14.54	1		1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9		11.80	4	12.89	5	14.27	2		1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1		10.66	10	10.70	14	11.21	14		1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10		10.69	9	11.75	13	13.20	9		1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		Rust
						Rank		Rank		Rank		Rank		Rank		Rank	Overall
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source	Yield (lb/acre)						Protein (%)						Stripe Rust Overall
					Sac Valley		SJ Valley		Imp Valley		Sac Valley		SJ Valley		Imp Valley		
						Rank		Rank		Rank		Rank		Rank		Rank	
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)	4000	13	4940	13	6790	11	-	-	11.97	10	13.22	8	1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)	3470	14	5790	5	7670	4	-	-	12.83	7	13.72	5	1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)	5770	2	6250	2	7560	5	10.11	12	11.78	12	12.92	11	3.9
4	1679	CLEAR WHITE 515	HWS	UC	5210	5	5190	12	6700	14	11.72	5	12.84	6	14.09	3	1.0
5	1680	PATWIN 515	HWS	UC	4940	7	5880	4	7250	8	11.59	6	12.08	9	12.98	10	1.1
6	1715	UC 1715	HRS	UC	5400	3	5480	8	6730	13	11.39	7	13.33	2	14.00	4	1.1
7	1723	ATOMO	HWS	LIMAGRAIN	5970	1	6300	1	8300	2	10.57	11	12.20	8	12.30	13	1.9
8	1724	08SB0073	HRS	LIMAGRAIN	5070	6	5260	11	6760	12	11.32	8	11.97	10	12.65	12	1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)	4630	9	5440	9	7840	3	12.70	1	13.38	1	13.66	6	1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)	4360	10	5640	7	7540	6	12.06	2	13.13	4	13.66	6	1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)	5280	4	6060	3	7510	7	11.85	3	13.15	3	14.54	1	1.1
14	1734	APB W9-3AL	HWS	APB	4770	8	5350	10	7180	9	11.80	4	12.89	5	14.27	2	1.2
15	1737	APB NM-1	HRS	APB	4150	11	5730	6	8410	1	10.66	10	10.70	14	11.21	14	1.1
16	1738	APB MC-1	HRS	APB	4010	12	4940	13	7160	10	10.69	9	11.75	13	13.20	9	1.5

2012 Collaborative Common Wheat

Performance of 2012 Collaborative Entries in Regional Trials

Sample #	UC Entry #	Name	Type	Source		Yield (lb/acre)							Protein (%)							Stripe Rust
						Sac Valley		SJ Valley		Imp Valley			Sac Valley		SJ Valley		Imp Valley			
							Rank		Rank		Rank			Rank		Rank		Rank		
1, 9, 17	1478	CAL ROJO	HRS	RSI (SYNGENTA)		4000	13	4940	13	6790	11		-	-	11.97	10	13.22	8		1.0
2, 10, 18	1657	BLANCA GRANDE 515	HWS	RSI (SYNGENTA)		3470	14	5790	5	7670	4		-	-	12.83	7	13.72	5		1.1
3	1624	WB DA905-10	HRS	WB (MONSANTO)		5770	2	6250	2	7560	5		10.11	12	11.78	12	12.92	11		3.9
4	1679	CLEAR WHITE 515	HWS	UC		5210	5	5190	12	6700	14		11.72	5	12.84	6	14.09	3		1.0
5	1680	PATWIN 515	HWS	UC		4940	7	5880	4	7250	8		11.59	6	12.08	9	12.98	10		1.1
6	1715	UC 1715	HRS	UC		5400	3	5480	8	6730	13		11.39	7	13.33	2	14.00	4		1.1
7	1723	ATOMO	HWS	LIMAGRAIN		5970	1	6300	1	8300	2		10.57	11	12.20	8	12.30	13		1.9
8	1724	08SB0073	HRS	LIMAGRAIN		5070	6	5260	11	6760	12		11.32	8	11.97	10	12.65	12		1.1
11	1728	WB-JOAQUIN ORO	HRS	WB (MONSANTO)		4630	9	5440	9	7840	3		12.70	1	13.38	1	13.66	6		1.0
12	1729	WB-PERLA	HWS	WB (MONSANTO)		4360	10	5640	7	7540	6		12.06	2	13.13	4	13.66	6		1.2
13	1730	WB SJ907-229	HRS	WB (MONSANTO)		5280	4	6060	3	7510	7		11.85	3	13.15	3	14.54	1		1.1
14	1734	APB W9-3AL	HWS	APB		4770	8	5350	10	7180	9		11.80	4	12.89	5	14.27	2		1.2
15	1737	APB NM-1	HRS	APB		4150	11	5730	6	8410	1		10.66	10	10.70	14	11.21	14		1.1
16	1738	APB MC-1	HRS	APB		4010	12	4940	13	7160	10		10.69	9	11.75	13	13.20	9		1.5

2013 Collaborative Wheat Program

- Call for entries has been sent out for 2013
- Potential changes to program?
 - In addition to rankings, add ratings?
 - High quality, low quality, average quality
 - Rankings can be deceiving (or difficult to determine for the mills) if many varieties are of similar quality
 - Other suggestions?

2012 Data Available!

www.smallgrains.ucdavis.edu

Thank you for coming!