

# 2013 Collaborative Wheat and Durum Quality Evaluation Meeting

Phil Mayo, Program Leader

Diane Prato, Lab Assistant

Sam Fraser, Staff Research Associate

# What makes a good wheat?

It depends who you ask!

# What makes a good wheat?



Disease resistant



High Yield

High Protein



16%!

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# What makes a good wheat?



High Yield



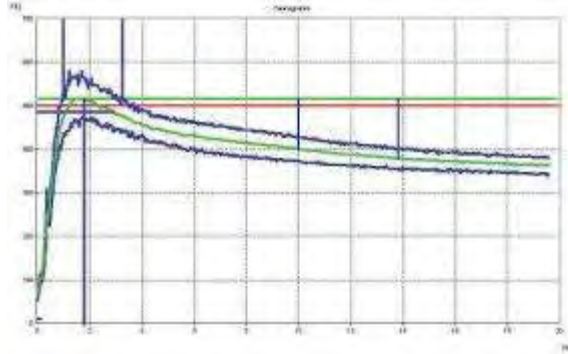


# HIGH QUALITY

FLOUR YIELD

FARINOGRAPHS

FALLING NUMBERS



# What makes a good wheat?



High Yield

High Quality



# QUALITY PRODUCTS

Bread



Cake



Cookies



Pasta





# What makes a good wheat?



High Yield

High Quality



Quality Products



# HOW THE PROGRAM WORKS

- Solicit breeders for their top-tier lines (lines for potential release)
- Grow trials alongside regional trials

# 2013 Davis Regional Variety Trials



Regionals

Collabs

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- Grow trials alongside regional trials
  - Treated the same as our regionals (Fertilization, Irrigation, etc...)
    - Common Wheat: Sac Valley (Davis) and San Joaquin Valley (WSREC)
    - Durum Wheat: Imperial Valley (DREC)
- Gather agronomic performance data from regionals (Yield, disease resistance, etc...)
- Trials include check varieties – 3 replications

2013 COMMON WHEAT COLLABORATIVE TRIAL

1478	1657
1727	1726
1740	1741
1478	1743
1657	1744
1747	1746
1748	1749
1478	1750
1657	FILL

2013 COMMON WHEAT COLLABORATIVE TRIAL

1478	1657
1727	1726
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1657	1744
1747	1746
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2013 COMMON WHEAT COLLABORATIVE TRIAL

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1727	1726
1740	1741
1478	1743
1657	1744
1747	1746
1748	1749
1478	1750
1657	FILL

2013 DURUM WHEAT COLLABORATIVE TRIAL	
951	1690
1721	1697
1753	1741
951	1754
1757	1755
1758	951



2013 DURUM WHEAT COLLABORATIVE TRIAL	
951	1690
1721	1697
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951	1754
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  - Treated the same as our regionals (Fertilization, Irrigation, etc...)
  - Common Wheat: Sac Valley (Davis) and San Joaquin Valley (WSREC)
  - Durum Wheat: Imperial Valley (DREC)
- Gather agronomic performance data from regionals (Yield, disease resistance, etc...)
- Trials include check varieties – 3 replications
  - Common: Cal Rojo and Blanca Grande 515
  - Durum Wheat: Kronos
    - Standard of comparison using known high-quality lines
    - Check reproducibility of results from collaborating mills
- Send samples to labs without entry names
- Labs will evaluate samples using their own criteria – give a rating
- Send data to me for presentation
- Format and send to CWC for printing

# 2013 Wheat Collaborative Tests

## Breeding Companies:

- Arizona Plant Breeders (Arizona Grain)
- Limagrain Cereal Seeds
- Resource Seeds, Inc. (Syngenta)
- University of California, Davis
- WestBred (Monsanto)

## Collaborating Mills:

- ADM
- Bay State Milling
- California Wheat Commission
- ConAgra
- Horizon Milling (Cargill)
- Miller Milling

2013 COLLABORATIVE DURUM WHEAT

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APB	1,6,10	951	KRONOS	7030	(1)	14.19	(4)
UC	2	1690	MIWOK	6620	(3)	14.70	(1)
LG	3	1697	KIKO NICK	6080	(6)	14.09	(5)
LG	4	1721	ALIRON	7000	(2)	12.82	(8)
APB	5	1753	APB D7-12	4630	(8)	13.89	(7)
APB	7	1754	APB KRLCD	6090	(5)	14.29	(3)
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SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

**2013 COLLABORATIVE COMMON WHEAT**

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BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

**2013 COLLABORATIVE COMMON WHEAT**

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
<b>LG</b>	<b>4</b>	<b>1727</b>	<b>LG 08SB0008-B</b>	<b>HRS</b>	<b>6320 (4)</b>	<b>6350 (1)</b>	<b>12.08 (7)</b>	<b>13.01 (4)</b>	<b>1.0</b>	<b>2.3</b>
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0



2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

**2013 COLLABORATIVE COMMON WHEAT**

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
<b>WB</b>	<b>12</b>	<b>1748</b>	<b>WB SJ909-368</b>	<b>HRS</b>	<b>6080 (8)</b>	<b>5280 (11)</b>	<b>11.92 (10)</b>	<b>11.78 (10)</b>	<b>1.0</b>	<b>1.0</b>
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

**2013 COLLABORATIVE COMMON WHEAT**

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
<b>WB</b>	<b>13</b>	<b>1749</b>	<b>WB DA907-047</b>	<b>HWS</b>	<b>6040 (11)</b>	<b>5650 (6)</b>	<b>12.7 (3)</b>	<b>11.95 (8)</b>	<b>1.0</b>	<b>1.0</b>
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0

2013 COLLABORATIVE COMMON WHEAT

BREEDER	ENTRY	UC ENTRY	NAME	CLASS	2013 DAVIS YIELD (LB/ACRE)	2013 FRESNO YIELD (LB/ACRE)	2013 DAVIS PROTEIN %	2013 FRESNO PROTEIN %	2013 DAVIS STRIPE RUST RATING	2013 FRESNO STRIPE RUST RATING
SY-RSI	1,7,15	1478	CAL ROJO	HRS	6220 (6)	5690 (5)	11.98 (8)	11.54 (12)	1.0	1.0
SY-RSI	2,8,16	1657	BLANCA GRANDE 515	HWS	6650 (1)	5590 (9)	11.75 (11)	12.61 (6)	1.0	1.0
LG	3	1726	LG 08SB0738	HWS	6280 (5)	6340 (2)	13.11 (1)	12.7 (5)	1.0	1.0
LG	4	1727	LG 08SB0008-B	HRS	6320 (4)	6350 (1)	12.08 (7)	13.01 (4)	1.0	2.3
UC	5	1741	UC 1741	HWS	6490 (3)	5610 (8)	11.96 (9)	11.73 (11)	1.0	1.0
UC	6	1743	UC 1743	HWS	6080 (8)	5460 (10)	12.6 (4)	13.45 (2)	1.0	1.0
UC	9	1744	UC 1744	HWS	6150 (7)	4630 (12)	12.1 (6)	12.33 (7)	1.0	1.0
APB	10	1746	APB 770229	HWS	6070 (10)	5950 (3)	13.02 (2)	13.42 (3)	1.0	1.0
APB	11	1747	APB 430701	HRS	5490 (12)	5630 (7)	12.33 (5)	13.64 (1)	1.0	1.0
WB	12	1748	WB SJ909-368	HRS	6080 (8)	5280 (11)	11.92 (10)	11.78 (10)	1.0	1.0
WB	13	1749	WB DA907-047	HWS	6040 (11)	5650 (6)	12.7 (3)	11.95 (8)	1.0	1.0
WB	14	1750	WB DA908-306	HWS	6500 (2)	5760 (4)	11.45 (12)	11.83 (9)	1.0	1.0



## 2014 Collaborator Program

- 2014 Call for Entries sent
- 2013 APR finished
- Changes?
- Many thanks to all

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