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2014 Wheat Quality Council Hard Spring Wheat & Durum Tour Completed

Summary by Ben Handcock, Executive Vice President

The Wheat Quality Council hard spring and durum tour was conducted July 21-24 in North Dakota plus parts of South Dakota and Minnesota. (**Tour Map**) There were 54 registered participants this year, and 31 of them were first-timers on this tour.

The 373 spring wheat fields surveyed averaged 48.6 bushels per acre, a record for our tour. The 17 durum fields averaged 36.6 bushels, down from 41.7, and they are getting harder to find. We evaluated 13 hard winter fields and they averaged 44.0 bushels, down from 53.5 one year ago.

The average for all 403 field stops was 48 bushels per acre. The five year average is 45.18 bushels. (Tour Results)

Day One covered the southern half of North Dakota, southwestern Minnesota and northeast/north central South Dakota. Yields were good on all routes again this year. The highest yielding spring wheat field was estimated at 92.8 bushels and the lowest was 16.5, with a day one spring wheat average of 48.3 bushels versus last year at 43.3 bushels.

Day Two covered northwest and north central North Dakota. We find fewer durum fields each year, even in the far northwest. The yields were good again as we moved along the routes. We had a spring wheat high for the day of 84 bushels, a low of 24 with a day two average of 48.4 bushels. Last year these routes averaged 45 bushels.

Day Three concluded the tour by covering north central/north east North Dakota and north west/west central Minnesota. We had a huge contingent visiting the ND Mill so fewer stops were made. As is usually the case, this was the highest yielding area of the tour, although not by much. The day three average was estimated at 50.2 bushels, compared to 49.1 one year ago. Our high was 75 and our low was 24.1 bushels per acre.

My personal observations: I thought this crop had extremely high potential. It is the highest yield potential we have ever predicted. The unusual thing about this crop is the lateness of its harvest. We seem to have two crops--one planted in late April and one planted in late May or early June. We saw a lot of wheat that had just flowered and some that had not headed. It is likely six weeks to harvest on some of the crop, and four weeks on a lot more. The only issue this crop could have would be a stretch of very hot weather while filling. The extended forecast for

ND is below average temps for the next 10 days or so and that will be good. Harvesting wheat in North Dakota in September can sometimes be a real challenge.

There was very little disease noticed this year. It is fairly simple to see the disease on green wheat, but not very much appeared serious. I also thought the fields were extremely free of weeds. A lot of fields had been sprayed, which accounts for a lot of the lack of weeds and diseases.

Once again our results are not official. The North Dakota Ag Statistics Service will publish official results in early August. Watch for them and see how we compare. We have been very close for the past ten years or so. We are not as scientific as they are, we simply overwhelm them with the number of fields we visit, and our formula provided by NDSU has been working very well.

Thanks to all of you who came, drove cars or helped in any way to make this tour a success. The newcomers have told me they learned a great deal, had a lot of fun and would love to do it again. We look forward to 2015.

Please mark the Wheat Quality Council 2015 Annual Meeting dates on your calendar. It should be interesting evaluating all the new wheat lines grown this year. The dates are February 17-19 at the Embassy Suites in Kansas City.

The dates for the hard spring and durum tour in 2015 are July 27-30. We are moving it back a week as we are now seeing it pretty early. It would be nice to see a little bit of harvest going on as we do the tour.

2014 Spring Wheat Crop Tour

Yield Potential

<i>Weighted Averages</i>	<i>Standard Deviation</i>	<i>Total Fields</i>	
Total	48.0	12.2	403
HRS	48.6	12.0	373
DUR	36.6	10.7	17
HRW	44.0		13

July 22-24, 2014

Overall Weighted Tour Averages

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
HRS	34.9	32.0	37.6	38.8	35.5	31.7	37.3	37.7	46.2	46.0	41.5	44.9	44.9	48.6
DUR	28.3	25.4	28.6	29.8	29.6	23.3	29.0	23.7	36.2	38.4	31.8	42.4	41.7	36.6
HRW			42.8	38.5	31.0	45.3	36.7	43.0	51.3	48.4	47.0	45.8	53.5	44.0
All Wheat	33.5	31.1	35.9	38.1	34.9	31.3	36.3	36.0	45.7	45.2	41.1	44.8	44.8	48.0

Fields Surveyed

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
HRS	355	316	310	308	305	272	286	346	402	321	369	377	433	373
DUR	113	86	49	71	27	19	38	58	35	41	31	26	31	17
HRW	4	0	1	2	3	3	8	18	21	8	19	18	8	13
All	472	402	360	381	335	294	332	422	458	370	419	421	472	403

Tour Participants - Breakdown

Class	Number	Percent	
Government	5	9	Total = 54
University	1	2	
Media	3	6	
Grain	12	22	
Milling	14	26	
Baker	6	11	
Producer	1	2	
Other	12	22	

DAY 1

2014 SPRING WHEAT CROP TOUR

22-Jul-14

Route	Class	Est. 2014	Calc. 2014	Std Dev	Hi	Lo	# Fields	2013	2012	2011	2010	2009	2008	2007
Purple #1	HRS		65.5	15.6	92.8	40.8	12	52.0	54.5	44.2	45.4	45.5	49.4	37.5
	DUR						0							
	HRW		40.8				1			47.0	38.1	59.5	69.8	
Green #2	HRS		50.9	11.9	72.0	33.0	14	40.8	38.5	42.5	44.4	41.2	43.5	49.1
	DUR						0							
	HRW											38.9	39.5	
Yellow #3	HRS	45.0	47.0	9.4	58.0	26.0	12	46.4	40.1	45.5	43.0	44.8	44.6	44.0
	DUR						0							
	HRW	40.0	44.0				1	43.1		26.0		50.0	47.0	
Orange #4	HRS		44.9	8.5	62.2	32.8	11	47.7	48.8	37.6	43.9	39.7	43.2	33.5
	DUR						0							
	HRW							29.4						37.4
Red #5	HRS	46.8	42.0	10.4	65.3	26.9	15	57.9	35.6	46.2	50.5	49.7	44.5	39.5
	DUR						0	76.7						
	HRW							49.3						
Pink #6	HRS	46.0	44.3	12.2	60.0	17.0	12	34.0	49.2	30.3	32.9	44.3	42.0	19.8
	DUR						0							
	HRW									19.0			54.0	
Blue #7	HRS	46.0	45.6	12.3	73.0	37.0	8	48.3	39.1	36.5	36.1	48.4	22.1	45.2
	DUR						0		40.2		27.6		19.4	36.7
	HRW	54.0	57.0				2					51.4		
Black #8	HRS		39.2	7.6	51.5	25.1	12	33.5	33.6	29.1	43.5	45.1	17.5	28.2
	DUR						0			33.1	32.1			
	HRW											67.0	13.3	38.3
Purple #9 No Route	HRS						0	43.5	48.0					
	DUR						0							
	HRW													
Green #10 No Route	HRS						0	39.1	46.8	45.8	37.9	49.2		
	DUR						0							
	HRW									47.9		43.5		
Yellow #11	HRS	41.9	45.8	7.1	57.0	31.9	14	46.3	43.0	41.1	38.6	55.4	29.5	35.2
	DUR						0							
	HRW									30.5	36.0	72.0	25.6	
Orange #12	HRS	62.9	64.8	10.6	78.4	44.4	18	48.3	42.8	38.1			41.1	31.5
	DUR						0						43.0	
	HRW									36.2			51.0	
Red #13	HRS	56.8	53.0	12.2	63.8	32.4	6	46.5	46.4	46.6	55.9	40.4		
	DUR						0					23.8		
	HRW													
Pink #14	HRS	45.0	43.2	4.5	50.2	35.4	12	39.1	42.1	36.2	43.7	45.0	29.3	36.5
	DUR						0	41.4						
	HRW	40.0	33.2				3						26.3	
Blue #15	HRS	34.0	33.1	10.8	50.0	16.5	10	39.3	34.0	35.9		45.9		
	DUR						0		17.0	43.8		44.0		
	HRW							30.9	30.0					
Black #16 No Route	HRS						0	32.7	41.0	33.1		42.9		
	DUR						0			17.2		54.6		
	HRW											60.4		

Weighted Averages

	EST.	CALC.	SD	Flds	2013	2012	2011	2010	2009	2008	2007
Wt. Avg.	47.5	48.1	13.7	162	43.5	42.6	39.3	42.7	45.9	38.2	36.2
HRS	47.7	48.3	13.7	156	43.3	42.9	39.5	43.1	45.6	37.6	36.2
DUR				0	53.1	28.6	31.8	30.6	44.2	27.4	36.7
HRW	44.6	42.9		6	47	30.3	39.7	37.4	50	45.9	37.9
Fields HRS					195	171	154	131	164	129	136
Fields DUR					3	2	4	3	5	3	1
Fields HRW					5	3	11	3	15	14	5
Total Fields					203	176	169	137	184	146	142

DAY 2

2014 SPRING WHEAT CROP TOUR

23-Jul-14

Route	Class	Est. 2014	Calc. 2014	Std Dev	Hi	Lo	# Fields	2013	2012	2011	2010	2009	2008	2007
Purple #1	HRS		48.5	7.0	58.0	38.0	11	45.9		44.0	44.6	45.3	42.3	35.4
	DUR						0	53.6			39.5	39.6	25.0	28.0
	HRW		43.0				1					45.5		
Green #2	HRS	48.4	49.2	10.6	68.6	30.5	13	53.0	47.6	41.3	46.1	40.5	38.4	34.1
	DUR						0			36.5	36.5	44.6		25.0
	HRW											51.3	47.9	
Yellow #3	HRS	48.2	49.0	8.7	63.7	41.0	10	53.9	52.0	39.3	47.9	46.0	44.4	39.9
	DUR						0		41.0		53.1			
	HRW											75.0		
Orange #4	HRS	43.5	45.1	8.7	60.9	25.4	13	45.9	47.5	32.4	42.0	45.4	29.3	34.3
	DUR	32.8	31.1	7.8	41.7	20.4	5		48.7	35.8	37.6	34.0	20.3	34.9
	HRW							70.5			57.8			
Red #5	HRS	52.6	52.8	14.6	84.0	35.9	14	51.3	33.8	42.0	50.2	44.6	38.6	39.6
	DUR						0	36.0	23.0		36.5	48.0	42.3	
	HRW								48.6					
Pink #6	HRS	45.8	41.4	13.5	62.9	24.0	8	42.8	50.6	35.5	34.0	32.0	25.2	34.2
	DUR	35.0	35.9	15.0	46.5	25.3	2	41.1	46.5	29.0	37.4	37.6	15.2	28.3
	HRW	48.0	42.9				1						24.4	35.8
Blue #7	HRS	45.2	45.2	6.3	56.5	36.4	11	49.9	50.3	48.3	46.5	46.6	33.1	36.2
	DUR						0	59.5	54.0		42.0	33.5		
	HRW											86.1		
Black #8	HRS	46.3	47.1	10.6	60.0	28.0	12	36.3	35.7	53.2	52.5	48.1	30.4	36.2
	DUR	45.0	57.8				1	38.1	42.4	50.0	39.5		24.9	22.9
	HRW											76.0		
Purple #9 No Route	HRS						0	48.5	51.0	48.6				
	DUR						0	31.4		28.4				
	HRW									32.6				
Green #10 No Route	HRS						0	36.2	39.9	42.3	47.8	41.6		
	DUR						0		31.0					
	HRW													
Yellow #11	HRS	54.5	52.8	9.7	67.9	35.7	13	36.4	48.5	38.4	47.1	46.7	34.1	
	DUR	26.0	25.3				1		48.4			30.5		
	HRW	50.0	38.1				1							
Orange #12	HRS	65.9	57.8	12.9	83.9	44.8	10	41.6	42.2	35.0			19.3	29.1
	DUR	35.0	36.3	19.9	50.3	22.2	2	37.2	42.4	28.7			25.7	29.4
	HRW	62.0	62.7				1		55.1					
Red #13	HRS	47.1	49.6	9.1	65.1	36.8	13	46.9	49.3	47.5	43.5	43.4		
	DUR						0	28.7		18.6	27.0		21.5	
	HRW									49.4		40.4		
Pink #14	HRS	45.6	48.5	13.0	70.4	32.0	8	50.4	40.2	46.4	48.4	27.0	32.7	26.6
	DUR	42.3	43.0	3.7	45.3	38.8	3	38.9	36.0	26.3	40.4	29.1	31.1	27.8
	HRW	45.0	43.0				1			49.0				32.3
Blue #15	HRS	42.0	40.9	8.5	56.2	26.8	14	48.7	39.2	42.3		52.9	23.4	
	DUR						0	39.2		36.0			24.1	
	HRW													
Black #16 No Route	HRS						0	38.2	52.8	37.0		37.8		
	DUR						0	44.1	36.5			34.0	13.4	
	HRW								67.0	48.5				

Weighted Averages

	EST.	CALC.	SD	Flds	Wt. Avg.	2013	2012	2011	2010	2009	2008	2007
Wt. Avg.	47.2	47.3	11.4	169		44.6	45.5	41.3	44.6	43.5	31.2	33.8
HRS	48.3	48.4	10.9	150	HRS	45	45.5	42.1	46.3	44.6	34.4	35.7
DUR	35.9	36.6	11.6	14	DUR	40.1	42.6	31.8	38.9	35.4	23.3	28.8
HRW	51.2	45.9		5	HRW	70.5	52.8	57	47.4	54.5	32.2	34.7
2 day totals		2014 #	2013 #		Fields HRS	166	140	151	110	149	134	95
HRS		48.3	306	44.1	361	Fields DUR	23	23	27	34	28	54
DUR		36.6	14	41.6	26	Fields HRW	2	9	8	3	6	3
All Wheat		47.7	331	44.1	394	Total Fields	191	172	186	147	183	191

DAY 3

2014 SPRING WHEAT CROP TOUR

24-Jul-14

Route	Class	Est. 2014	Calc. 2014	Std Dev	Hi	Lo	# Fields	2013	2012	2011	2010	2009	2008	2007	
Purple #1	HRS	50.7	59.6	4.6	64.5	55.3	3	62.6		54.5	59.4	45.0	43.7	45.1	
	DUR	45.0	31.1				1								
	HRW														
Green #2	HRS	48.4	51.0	10.8	71.8	30.0	10	39.6	56.6	41.4	51.8	46.8	41.9	42.1	
	DUR						0	41.7			24.3				
	HRW								52.9						
Yellow #3	HRS		47.7	7.3	58.0	35.0	9	46.0	50.9	52.3	46.2	46.5	47.2	46.3	
	DUR						0				35.0	1.0	32.8		
	HRW														
Orange #4	HRS	50.5	44.4	6.9	53.3	38.2	4	41.9	48.9	53.9	56.6	44.5	40.5	32.6	
	DUR						0				34.5				
	HRW										41.3				
Red #5 No stops	HRS						0	57.3	49.8	43.4	50.3	59.3	45.7	52.5	
	DUR						0	57.1							
	HRW														
Pink #6	HRS	52.0	52.1	8.9	62.0	41.0	7	48.3	44.7	43.8	53.8	54.3	38.1	45.0	
	DUR						0								
	HRW														
Blue #7	HRS	49.0	53.0	1.1	53.7	52.2	2		48.5	39.3	49.8	57.8	49.7	40.5	
	DUR						0				60.0				
	HRW														
Black #8	HRS	55.0	61.5	2.1	63.0	60.0	2	52.5	43.3	47.1	67.8	51.0	42.2	43.7	
	DUR						0								
	HRW														
Purple #9 No Route	HRS						0	60.7	49.0	41.6					
	DUR						0	35.0							
	HRW														
Green #10 No Route	HRS						0	47.9	49.0	47.3	47.6	43.0			
	DUR						0	66.0							
	HRW														
Yellow #11	HRS	44.2	44.2	11.0	64.3	24.1	10		47.7	41.4	45.9	53.2			
	DUR						0				31.3	28.1			
	HRW	51.0	41.2				1								
Orange #12	HRS	45.9	44.7	7.0	57.5	36.0	7	41.3	46.3	32.0			37.1		
	DUR						0								
	HRW														
Red #13	HRS	56.4	57.7	9.9	75.0	47.0	7		44.9	38.8	45.6				
	DUR						0								
	HRW														
Pink #14	HRS	48.6	47.2				1	44.8	50.0	51.5	47.6	50.8	46.5	37.1	
	DUR	54.6	44.8				1								
	HRW	56.0	43.4				1	28.7				34.4			
Blue #15	HRS	49.0	53.8	15.2	71.1	32.4	5	50.4	39.3	48.7		49.4			
	DUR	35.0	34.3				1								
	HRW														
Black #16 No Route	HRS						0	48.0	57.3	46.7		39.7			
	DUR						0								
	HRW														

Weighted Averages

	EST.	CALC.	SD	Flds		2013	2012	2011	2010	2009	2008	2007
Wt. Avg.	49.2	49.4	10.4	72	Wt. Avg.	48.7	48.4	45.2	50.2	49.7	42.9	42.6
HRS	49.2	50.2	10.2	67	HRS	49.1	48.6	45.2	50.3	50.2	43.1	42.6
DUR	44.9	36.7	7.2	3	DUR	42.1	66		40.2	26.2	32.8	
HRW	53.5	42.3		2	HRW	52.5	43.1		66.5		34.3	
					Fields HRS	72	66	64	80	89	83	55
					Fields DUR	5	1	0	4	2	1	0
					Fields HRW	1	6	0	2		1	0
					Total Fields	78	73	64	86	91	85	55