


Hard Spring Wheat Quality Tour 2010

DAY 1		2010 SPRING WHEAT CROP TOUR													
24-Jul-07															
Route	Class	Est. 2010	Calc. 2010	Std Dev	Hi	Lo	# Fields	2009	2008	2007	2006	2005	2004	2003	
Purple #1	HRS	47.7	45.4	10.2	64.2	32.0	9	45.5	49.4	37.5	25	41.7	44.3	40.1	
	DUR														
	HRW	47.0	38.1	11.7	46.4	29.8	2	59.5	69.8						
Green #2	HRS		44.4	8.1	58.4	31.3	12	41.2	43.5	49.1	25.7	36.7	38.6	40.5	
	DUR														
	HRW							38.9	39.5				39.1		
Yellow #3	HRS	46.0	43.0	7.3	54.0	29.0	11	44.8	44.6	44.	38.3	36.6	49.2	42.0	
	DUR														
	HRW							50.0	47.0						
Orange #4	HRS	51.5	43.9	6.8	51.0	30.0	10	39.7	43.2	33.5	38.3	42.7	37.9	50.2	
	DUR														
	HRW									37.4					
Red #5	HRS		50.5	17.2	80.0	19.0	12	49.7	44.5	39.5	37.8	31.9	42.9	41.2	
	DUR											29.2			
	HRW														
Pink #6	HRS	34	32.9	10.9	45.2	19.7	9	44.3	42.0	19.8	27.4	42.7	48.3	35.6	
	DUR										17.4			51.0	
	HRW								54.0						
Blue #7	HRS	36.8	36.1	6.7	50.6	28.0	10	48.4	22.1	45.2	17.9	31.8	25.7	26.9	
	DUR		36.7				1		19.4	36.7			25.4	23.0	
	HRW							51.4				21.4			
Black #8	HRS	43.5	43.5	5.4	54.0	36.2	14	45.1	17.5	28.2	29.3	29.7	26.4	27.5	
	DUR	43.5	32.1	8.9	38.4	25.8	2				24.5	24.2	18.0		
	HRW							67.0	13.3	38.3				45.0	
Purple #9	HRS	No Route			0.0	0.0	0								
	DUR														
	HRW														
Green #10	HRS	36.0	37.9	13.3	64.0	22.5	11	49.2							
	DUR														
	HRW							43.5							
Yellow #11	HRS	35.7	38.6	9.9	57.0	18.3	11	55.4	29.5	35.2			26.1		
	DUR														
	HRW						1	72.0	25.6						
Orange #12	HRS	No Route			0.0	0.0	0		41.1	31.5	35.9				
	DUR								43.0						
	HRW								51.0						
Red #13	HRS	52.3	55.9	13.2	77.7	36.8	10	40.4						35.1	
	DUR							23.8						17.2	
	HRW														
Pink #14	HRS	42.0	43.7	11.1	62.7	20.4	12	45.0	29.3	36.5				37.9	
	DUR													29.0	

HRW		26.3					
Blue #15	HRS	No Route	0.0	0.0	0	45.9	
	DUR					44.0	
	HRW						
Black #16	HRS	No Route	0.0	0.0	0	42.9	
	DUR					54.6	
	HRW					60.4	

	EST.	CALC.	SD	Flds
Wt. Avg.	42.4	42.7	11.7	137
HRS	42.5	43.1	11.6	131
DUR	37.7	30.6	6.8	3
HRW	44.0	37.4		3

	Weighted Averages						
	2009	2008	2007	2006	2005	2004	2003
Wt. Avg.	45.9	38.2	36.2	31.1	36.4	37.4	36.9
HRS	46.5	37.6	36.2	31.2	36.8	37.8	37.5
DUR	44.2	27.4	36.7	28.5	26.7	20.5	26.8
HRW	50	45.9	37.9		21.4	38.5	45
Fields HRS	164	129	136	106	100	118	125
Fields DUR	5	3	1	2	2	3	9
Fields HRW	15	14	5		1	3	1
Total Fields	184	146	142	108	103	124	135

[Back to Top](#)

DAY 2		2010 SPRING WHEAT CROP TOUR												
28-Jul-10														
Route	Class	Est. 2010	Calc. 2010	Std Dev	Hi	Lo	# Fields	2009	2008	2007	2006	2005	2004	2003
Purple #1	HRS	44.2	44.6	14.2	64.4	20.1	11	45.3	42.3	35.4	29.8	30.8	35.4	38.0
	DUR	39.5	39.5					39.6	25.0	28.0		35.2	44.0	47.3
	HRW							45.5						
Green #2	HRS	42.4	46.1	9.5	60.9	34.7	11	40.5	38.4	34.1	25.9	29.7	37.4	31.3
	DUR	39.0	36.5				1	44.6		25.0	15.1	17.7		30.4
	HRW							51.3	47.9					
Yellow #3	HRS	48.0	47.9	8.8	60.8	35.6	11	46.0	44.4	39.9	31.7	41.4	36.4	38.8
	DUR		53.1				1					13.7		27.3
	HRW							75.0						
Orange #4	HRS	44.0	42.0	6.8	49.8	37.4	3	45.4	29.3	34.3	35.2	33.8	34.6	23.8
	DUR	37.5	37.6	6.9	50.9	32.1	6	34.0	20.3	34.9	29.6	32.0	29.1	22.8
	HRW	52.0	57.8											40.5
Red #5	HRS	44.0	50.2	7.9	61.9	41.1	9	44.6	38.6	39.6	28.2	30.8	36.9	29.1
	DUR	35.0	36.5	10.7	44.0	28.9	2	48.0	42.3		34.0	34.7	34.2	23.8
	HRW													
Pink #6	HRS	36.7	34.0	9.0	51.7	29.3	6	32.0	25.2	34.2	27.6	37.4	27.0	26.9
	Modified Durum	36.4	37.4	4.3	42.2	30.9	7	37.6	15.2	28.3	20.8	27.4	31.4	22.3
	HRW								24.2	35.8				
Blue #7	HRS	45.0	46.5	12.1	73.0	32.0	12	46.6	33.1	36.2	30.0	31.4	33.9	35.8
	DUR	34.0	42.0				1	33.5			7.0	38.0		26.6
	HRW							86.1						
Black #8	HRS	48.7	52.5	8.4	59.0	37.2	6	48.1	30.4	36.2	30.4	29.7	33.9	31.2

	DUR	41.7	39.5	4.1	42.0	34.8	3	24.9	22.9	20.3	27.4	39.0	31.8
	HRW										40.6		
Purple #9	HRS	No Route			0.0	0.0	0						
	DUR												
	HRW												
Green #10	HRS	49.1	47.8	8.7	63.0	31.0	13	41.6					
	DUR												
	HRW												
Yellow #11	HRS	43.9	47.1	10.9	65.8	31.6	15	46.7	34.1			36.1	
	DUR							30.5				13.4	
	HRW												
Orange #12	HRS	No Route			0.0	0.0	0	19.3	29.1	25.4			
	DUR				0.0	0.0	0	25.7	29.4	28.5			
	HRW									45.0			
Red #13	HRS	42.1	43.5	12.8	58.0	17.0	10	43.4					36.3
	DUR						1	21.5					32.3
	HRW												
Pink #14	HRS	48.4		9.2	58.4	40.2	3	27.0	32.7	26.6			29.6
Modified	DUR	40.4		17.5	87.2	23.4	12	29.1	31.1	27.8			25.7
Durum	HRW									32.3			
Blue #15	HRS	No Route			0.0	0.0	0	52.9	23.4				
	DUR							24.1					
	HRW												
Black #16	HRS	No Route			0.0	0.0	0	37.8					
	DUR				0.0	0.0	0	34.0	13.4				
	HRW												

	EST.	CALC.	SD	Flds
Wt. Avg.	43.2	44.6	11.2	147
HRS	44.5	46.3	10.7	110
DUR	37.2	38.9	11.2	34
HRW	45.6	47.5		3

2 day totals	2010	#	2009	#
HRS	44.5	241	45.1	313
DUR	38.2	37	36.7	33
All Wheat	43.6	284	44.7	367

	Weighted Averages						
	2009	2008	2007	2006	2005	2004	2003
Wt. Avg.	43.5	31.2	33.8	28.8	32	34.2	31.4
HRS	44.6	34.4	35.7	39.5	32.6	34.9	33.7
DUR	35.4	23.3	28.8	23.5	29.8	30.8	27.4
HRW	45	40.6		40.5			38.2
Fields HRS	149	134	95	104	82	103	95
Fields DUR	28	54	37	17	25	22	56
Fields HRW	6	3	3	1	1	0	1
Total Fields	183	191	135	122	108	125	152

[Back to Top](#)

DAY 3														
2010 SPRING WHEAT CROP TOUR														
29-Jul-10														
Route	Class	Est.	Calc.	Std	Hi	Lo	#	2009	2008	2007	2006	2005	2004	2003
		2010	2010	Dev			Fields							
Purple #1	HRS	52.0	59.4	16.1	78.0	40.0	5	45.0	43.7	45.1	41.6	46.8	48.1	45.7
	DUR													52.7
	HRW	55.0	66.5				2				45.5			

Green #2	HRS	51.8		8.5	68.6	38.3	9	46.8	41.9	42.1	39.2	35.5	51.3	38.8	
	DUR							24.3			35.2			35.2	
	HRW														
Yellow #3	HRS	48.8	46.2		9.6	53.5	27.0	8	46.5	47.2	46.3	34.6	38.3	42.8	47.2
	DUR	37.0	35.0						1.0	32.8					31.2
	HRW														
Orange #4	HRS	51.0	56.6		18.4	77.7	33.8	4	44.5	40.5	32.6	34.9		42.7	35.8
	DUR		34.5					1						46.8	31.7
	HRW														
Red #5	HRS		50.3		7.0	59.3	43.1	4	59.3	45.7	52.5	43.9	36.6	50.7	38.9
	DUR														
	HRW														
Pink #6	HRS	49.3	53.8		10.0	67.0	41.6	6	54.3	38.1	45.0	32.2	37.1	42.2	45.2
	DUR													18.6	
	HRW														
Blue #7	HRS	48.1	49.8		10.0	63.7	32.7	9	57.8	49.7	40.5	39.3	35.0	41.5	36.7
	DUR							1							
	HRW														
Black #8	HRS	48.7	67.8		23.8	87.8	41.4	3	51.0	42.2	43.7	31.2	39.4	42.7	37.3
	DUR														
	HRW														
Purple #9	HRS	No Route													
	DUR														
	HRW														
Green #10	HRS	41.8	47.6		9.9	62.3	30.6	10	43.0						
	DUR														
	HRW														
Yellow #11	HRS	42.2	45.9		6.5	56.3	32.5	13	53.2					41.6	
	DUR	34.0	31.3					1	28.1						
	HRW														
Orange #12	HRS	No Route									37.1				
	DUR														
	HRW														
Red #13	HRS	43.1	45.6		7.2	55.9	37.0	6							52.0
	DUR														49.2
	HRW														
Pink #14	HRS	43.3	47.6		4.7	53.0	44.9	3	50.8	46.5	37.1				35.4
	DUR														
	HRW									34.4					
Blue #15	HRS	No Route							49.4						
	DUR														
	HRW														
Black #16	HRS	No Route							39.7						
	DUR														
	HRW														

	EST.	CALC.	SD	Flds
Wt. Avg.	46.1	50.2	11.3	86

Weighted Averages						
2009	2008	2007	2006	2005	2004	2003

HRS	46.0	50.3	11.1	80
DUR	43.5	40.2	13.3	4
HRW	55.0	66.5		2

Wt. Avg.	49.7	42.9	42.6	37	37.1	44.5	41.8
HRS	50.2	43.1	42.6	36.7	37.1	44.8	41.8
DUR	26.2	32.8				32.7	42.1
HRW		34.3			45.5		
Fields HRS	89	83	55	62	66	84	88
Fields DUR	2	1	0	0	0	2	6
Fields HRW		1	0	2	0	0	0
Total Fields	91	85	55	64	66	86	94

[Back to Top](#)

Yield Potential

Weighted Averages

Standard Deviation

Total Fields

Total	45.2	11.7	370
HRS	46.0	11.5	321
DUR	38.4	11.2	41
HRW	48.4		8

July 27-29, 2010

Overall Weighted Tour Averages

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
HRS	31.3	32.5	30.5	36.4	34.9	32.0	37.6	38.8	35.5	31.7	37.3	37.7	46.2	46.0
DUR	27.7	26.8	23.2	26.6	28.3	25.4	28.6	29.8	29.6	23.3	29.0	23.7	36.2	38.4
HRW	39.6			46.3			42.8	38.5	31.0	45.3	36.7	43.0	51.3	48.4
All Wheat	30.4	30.8	28.4	34.2	33.5	31.1	35.9	38.1	34.9	31.3	36.3	36.0	45.7	45.2

Fields Surveyed

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
HRS	388	368	316	325	355	316	310	308	305	272	286	346	402	321
DUR	140	132	128	135	113	86	49	71	27	19	38	58	35	41
HRW	3	5	0	0	4	0	1	2	3	3	8	18	21	8
All	531	505	444	460	472	402	360	381	335	294	332	422	458	370

Tour Participants - Breakdown

Class	Number	Percent	
Government	9	17	Total = 54
University	2	4	
Media	4	7	
Grain	10	19	
Milling	17	31	
Baker	4	7	

Producer	3	6
Other	5	9

2010 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 26-29 in North Dakota plus parts of South Dakota and Minnesota. ([Tour Map](#)) There were 54 participants this year, and 34 of them were first-timers on this tour.

The 321 spring wheat fields surveyed averaged 46.0 bushels per acre, almost exactly like last year's 46.2 bushels. The 41 durum fields averaged 38.4 bushels, up from 36.2 bushels last year. We evaluated 8 hard winter fields and they averaged 48.4 bushels, down from 51.3 one year ago.

The average for all 370 field stops was 45.2 bushels per acre compared to 45.7 last year and the five year average of 38.9 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 field was estimated at 80 bushels and the lowest was 18.3, with a day one average of 42.7 bushels versus last year at 45.9 bushels. Tour members going into the far western areas reported the same kinds of yields as the cars elsewhere. This is the second consecutive year that western producers are getting a fine crop.

Day Two covered northwest and north central North Dakota. We did find a few more durum fields in the far northwest this year. We had 34 durum stops compared to 28 a year ago. The yields were impressive again as we moved along the routes. We had a high for the day of 73 bushels, a low of 17 with a day two average of 44.6 bushels. Last year these routes averaged 43.5 bushels.

Day Three concluded the tour by covering north central/north east North Dakota and north west/west central Minnesota. As is usually the case, this was the highest yielding area of the tour. The day three average was estimated at 50.2 bushels, compared to 49.7 one year ago. Our high was 87.8 and our low was 27 bushels per acre.

This crop is almost an exact replica of the one we witnessed last year. Only two-tenths of a bushel potential yield below last year's record. Again I emphasize the word "potential."

This is a tremendous crop with very few problems any place as far as disease or pests are concerned. The burning question is—"Will we have higher protein levels than a year ago?" I would guess that the answer is YES! The crop progress reports all along had the crop later maturing than usual. In the last couple of weeks the crop has matured very rapidly and many areas are starting to harvest or will start in the next week. There have been few super hot days, but something has caused this crop to catch up. There may have been just enough stress to develop more protein than last year. Let's hope so.

Again, we really saw little potential difference in this crop from East to West or North to South. It looked very much like the crop from 2009. In the final analysis, I predict that we will be very close to the final number ND Ag Statistics comes up with.

I would expect this to be a very good quality crop with high test weights and no vomitoxin issues. I don't know if we will reach the desired 14-14.5% protein levels, but I'm sure it will be higher than last year. I think most producers applied more nitrogen after last year's surprises. I think this crop will probably be very manageable by the processors.

Once again our results are not official. The North Dakota Ag Statistics Service will publish official results next week. 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 2011.

Please mark the Wheat Quality Council 2011 Annual Meeting dates on your calendar. It should be interesting evaluating all the new wheat lines grown under these conditions. The dates are February 15-17 at the Embassy Suites in Kansas City.