



Winter Cereals

Sustainability in Action

South Dakota West River Locations: 2010

Hard winter wheat yield results

Variety	Location Yield Avg. (bu/a at 13% moist.)										West Yield Avg. (bu/a)		State Yield Avg. (bu/a)	
	Bison		Sturgis		Wall		Hayes		Kennebec		2010	3-Yr	2010	3-Yr
	2010	3-Yr	2010	3-Yr	2010	3-Yr	2010	3-Yr	2010	3-Yr				
Alice (white)	30	34	70	55	42	52	71	64	32	54	49	52	60	57
Wendy (white)	26	40	71	50	28	51	78	70	25	50	45	52	60	60
Arapahoe	30	34	67	53	33	50	68	64	36	60	47	52	58	57
Art	28	--	72	--	30	--	72	--	35	--	47	--	62	--
Boomer	31	--	60	--	37	--	66	--	25	--	44	--	57	--
Camelot	29	--	72	--	48	--	74	--	32	--	51	--	60	--
Darrell	26	36	70	57	38	52	76	69	43	61	50	55	58	60
Expedition	27	38	73	57	46	55	79	71	27	55	50	55	64	62
Fuller	23	32	69	53	28	48	70	64	32	53	44	50	59	58
Harding	20	33	62	52	28	49	70	64	33	60	43	51	53	56
Hatcher	31	36	73	61	51	55	72	62	36	51	53	53	59	58
Hawken	25	35	64	51	45	54	78	66	40	57	50	52	59	58
Jagalene	25	32	62	51	40	51	65	60	34	49	45	49	56	55
Jerry	26	32	65	52	33	50	65	60	34	55	45	50	54	54
Lyman	34	40	72	57	31	48	78	67	45	64	52	55	62	60
Millennium	28	35	72	57	40	55	75	67	39	62	51	55	60	60
Overland	29	37	74	59	43	60	75	67	28	59	50	57	63	63
Radiant	28	--	67	--	39	--	63	--	19	--	43	--	51	--
Settler CI	24	33	70	50	41	54	78	71	25	53	47	52	62	58
Smoky Hill	25	34	66	53	36	53	77	70	38	60	48	54	60	61
Striker	28	--	61	--	36	--	68	--	21	--	43	--	56	--
Wahoo	34	40	74	59	38	55	76	66	31	60	51	56	60	59
Wesley	29	36	73	58	42	54	76	66	41	58	52	54	59	60
SD05118-1	33	37	72	55	35	53	74	67	34	63	50	55	62	62
Test Average	28	36	69	55	38	53	72	66	32	57	48	53	59	59
High Yield	34	40	74	61	51	60	79	71	45	64	53	57	64	63
Low Yield	20	32	61	50	28	48	63	60	21	49	43	49	51	54
LSD (0.05)#	5.7	NA	4.2	4.2	3.2	3.1	5.8	4.5	8.0	12.8	--	--	--	--
TPG value##	29	NA	71	55	48	57	74	67	37	58	--	--	--	--
C.V.###	14.2	20.6	4.3	9.6	6.0	6.7	5.6	8.4	17.4	12.8	--	--	--	--

If the difference between two varieties within a column equals or exceeds the LSD value, the difference is significant; if not, the difference is nonsignificant (NS) at the 0.05 level of probability.

Minimum value required for variety to qualify for the top performance group (TPG).

A measure of experimental error, 15% or less is best for yield.

Bolded yields indicate values within a column that qualify for the top performance group (TPG).

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Variety	Location Yield Avg. (bu/a at 13% moist.)														East Yield Avg. (bu/a)		State Yield Avg. (bu/a)	
	Selby			Brookings			Beresford		Onida		Pierre		Platte					
	IMS*	2010	3-Yr	IMS*	2010	3-Yr	2010	3-Yr	2010	3-Yr	2010	3-Yr	2010	3-Yr	2010	3-Yr	2010	3-Yr
Alice (white)	93	89	74	72	52	66	53	--	59	62	60	49	56	63	67	63	60	57
Wendy (white)	90	80	80	84	65	71	61	--	53	61	65	51	56	71	69	67	60	60
Arapahoe	85	84	76	80	57	65	48	--	50	57	57	45	61	66	65	62	58	57
Art	91	85	--	86	60	--	60	--	57	--	64	--	64	--	71	--	62	--
Boomer	88	89	--	88	63	--	50	--	50	--	45	--	48	--	65	--	57	--
Camelot	92	87	--	75	56	--	51	--	51	--	63	--	52	--	66	--	60	--
Darrell	87	81	78	79	49	68	45	--	53	61	51	47	56	66	63	64	58	60
Expedition	96	91	79	85	68	73	61	--	56	63	63	51	65	77	73	69	64	62
Fuller	94	91	80	81	64	72	53	--	57	62	60	50	53	63	69	65	59	58
Harding	83	79	76	69	56	65	43	--	48	54	50	47	54	61	60	61	53	56
Hatcher	77	83	76	74	58	66	48	--	55	58	55	46	57	64	63	62	59	58
Hawken	77	81	76	85	55	69	50	--	57	60	59	45	59	66	65	63	59	58
Jagalene	84	81	72	82	52	57	45	--	58	64	50	51	54	67	63	62	56	55
Jerry	81	80	77	77	63	64	38	--	49	54	44	35	47	58	60	58	54	54
Lyman	87	89	79	85	64	71	49	--	55	58	56	47	66	69	69	65	62	60
Millennium	82	83	78	81	59	65	49	--	53	60	61	50	63	70	66	65	60	60
Overland	92	79	79	88	66	70	52	--	61	67	60	55	64	75	70	69	63	63
Radiant	82	65	--	86	45	--	39	--	50	--	39	--	37	--	55	--	51	--
Settler CI	93	85	72	88	69	69	59	--	57	60	57	47	62	68	71	63	62	58
Smoky Hill	101	96	84	79	47	69	54	--	54	62	57	54	58	73	68	68	60	61
Striker	91	79	--	82	63	--	55	--	51	--	45	--	46	--	64	--	56	--
Wahoo	86	83	75	74	62	65	54	--	52	57	56	49	57	67	65	63	60	59
Wesley	85	73	74	84	64	69	45	--	58	63	48	48	59	70	64	65	59	60
SD05118-1	95	92	84	92	70	77	47	--	50	62	49	46	55	71	69	68	62	62
Test Average	88	84	77	82	59	68	50	--	54	60	54	48	54	68	66	64	59	59
High Yield	101	96	84	92	70	77	61	--	61	67	65	55	66	77	73	69	64	63
Low Yield	77	65	72	69	45	57	38	--	49	54	39	35	37	58	55	58	51	54
LSD (0.05) #	11.1	11.4	5.8	7.8	11.4	6.2	10.6	--	6.3	4.3	6.7	4.0	6.2	5.3	--	--	--	--
TPG value ##	90	85	79	85	59	71	51	--	55	63	58	51	60	72	--	--	--	--
C.V. ###	8.9	9.6	9.3	6.7	13.6	11.4	14.8	--	8.4	8.8	8.7	10.3	7.8	9.7	--	--	--	--

If the difference between two varieties within a column equals or exceeds the LSD value, the difference is significant; if not, the difference is nonsignificant (NS) at the 0.05 level of probability.

#Minimum value required for variety to qualify for the top performance group (TPG).

###A measure of experimental error, 15% or less is best for yield.

* IMS = Intensive Management Study

Bolded yields indicate values within a column that qualify for the top performance group (TPG).

Winter Cereals: Sustainability in Action

is a joint research and education initiative of Ducks Unlimited and Bayer CropScience. The initiative promotes improving agricultural productivity while maintaining habitat for wildlife by increasing winter wheat acres in the Prairie Pothole Region.

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