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**Winter Wheat**  
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Table 3. Winter wheat variety performance results at Craigmont, 2005-2006.

Variety or Selection	Seed Yield bu/acre	Seed Protein %	Hardness Score 0-100	Test Weight lb/bu	Plant Height inches	Lodging %
<b><u>Soft White</u></b>						
Brundage 96	48	16.3	15	46.9	27	0
Concept	43	15.9	12	46.4	27	20
Finch	40	16.7	15	47.7	28	0
Hubbard	48	16.2	17	50.1	32	0
IDO 587	51	15.8	17	47.2	29	0
Lambert	45	16.0	18	46.9	31	0
Madsen	41	17.9	20	47.8	26	0
Masami	43	16.4	16	47.6	25	0
Mohler	47	16.2	13	47.2	29	0
ORCF-101	48	16.7	17	47.5	30	0
ORCF-102	57	16.0	19	50.1	32	0
Simon	48	15.8	20	49.5	28	0
Stephens	49	15.6	14	46.7	28	0
Tubbs 06	53	16.5	22	47.5	31	0
WestBred 528	48	15.6	15	50.5	27	2
IDO 654	47	15.9	14	46.2	28	0
IDO 655	54	15.0	17	51.5	33	0
ID 92-22407A	46	15.1	13	51.1	28	0
ID 99-419	43	16.2	14	47.7	27	2
ID 99-435	51	15.3	17	47.7	33	0
ORH010920	51	15.4	13	49.1	26	0
<b>Average</b>	48	16.0	16	48.2	29	1
<b><u>Hard Wheat</u></b>						
MDM (HW)	40	17.7	51	48.0	27	17
IDO 641 (HW)	38	14.5	41	52.5	26	36
Boundary (HR)	44	15.2	50	48.4	27	0
Bauermeister (HR)	42	16.1	57	47.1	28	4
IDO 621 (HR)	46	15.2	51	51.1	26	9
<b>Average</b>	42	15.7	50	49.4	27	13
<b><u>Club</u></b>						
Chukar	41	15.8	26	47.1	25	7
Coda	47	16.4	23	50.6	30	0
Rohde	45	16.0	19	49.4	25	2
ARS 97135-9	42	16.0	23	46.3	26	19
<b>Average</b>	44	16.1	23	48.4	27	7
Overall Average	46	16.0	23	48.4	28	4
LSD (0.10)	4	--	--	1.2	2	6
CV (%)	8	--	--	2.2	5	135

Table 4. Winter wheat variety performance results at Lewiston, 2005-2006.

Variety or Selection	Seed Yield bu/acre	Seed Protein %	Hardness Score 0-100	Test Weight lb/bu	Plant Height inches	Lodging %
<b><u>Soft White</u></b>						
Brundage 96	95	12.5	29	59.1	36	0
Concept	95	12.6	26	59.8	37	11
Finch	103	12.6	28	59.6	41	1
Hubbard	99	11.3	30	60.4	44	0
IDO 587	93	12.8	36	58.5	36	11
Lambert	106	11.6	39	58.7	42	5
Madsen	93	12.6	33	58.4	39	4
Masami	94	12.3	32	57.9	39	15
Mohler	102	12.3	34	59.4	40	27
ORCF-101	96	12.2	32	58.2	39	0
ORCF-102	99	11.8	33	60.2	40	1
Simon	99	11.9	32	60.2	40	0
Stephens	98	11.8	35	59.4	38	0
Tubbs 06	96	11.8	35	58.5	41	0
WestBred 528	108	12.1	35	61.0	37	8
IDO 654	95	12.9	33	57.6	38	11
IDO 655	86	13.3	32	58.7	42	40
ID 92-22407A	93	12.5	26	59.6	40	20
ID 99-419	91	11.4	24	58.4	38	3
ID 99-435	102	11.9	36	58.3	42	12
ORH010920	99	12.1	29	58.3	35	0
<b>Average</b>	97	12.2	32	59.1	39	8
<b><u>Hard Red</u></b>						
MDM (HW)	80	13.0	54	58.2	43	56
IDO 641 (HW)	94	11.5	59	62.1	38	6
Boundary (HR)	99	11.7	64	61.0	39	0
Bauermeister (HR)	70	12.4	61	57.0	41	66
IDO 621 (HR)	103	12.0	64	61.5	38	2
<b>Average</b>	89	12.1	60	60.0	40	26
<b><u>Club</u></b>						
Chukar	99	11.2	31	58.0	38	22
Coda	88	12.7	35	60.1	39	26
Rohde	88	12.8	36	62.3	39	19
ARS 97135-9	98	12.2	33	57.9	37	14
<b>Average</b>	93	12.2	34	59.6	38	20
Overall Average	95	12.2	37	59.3	39	13
LSD (0.10)	9	--	--	1.1	2	20
CV (%)	8	--	--	1.6	4	138

Table 5. Winter wheat variety performance results at Genesee direct seeded, 2005-2006.

Variety or Selection	Seed Yield bu/acre	Seed Protein %	Hardness Score 0-100	Test Weight lb/bu	Plant Height inches
<b><u>Soft White</u></b>					
Brundage 96	82	11.6	27	60.5	31
Concept	87	11.4	24	61.2	32
Finch	89	11.8	30	59.9	36
Hubbard	82	11.8	30	61.1	41
IDO 587	81	12.1	31	60.9	32
Lambert	75	11.6	33	61.2	34
Madsen	81	12.6	30	59.9	33
Masami	85	11.8	32	57.4	35
Mohler	92	12.0	31	61.6	35
ORCF-101	88	11.9	29	61.0	34
ORCF-102	100	11.8	33	61.8	37
Simon	85	12.1	33	60.6	34
Stephens	81	11.6	33	61.1	31
Tubbs 06	91	11.6	35	59.7	36
WestBred 528	82	12.3	34	62.7	31
IDO 654	80	12.0	33	60.6	31
IDO 655	96	11.7	34	61.7	39
ID 92-22407A	80	12.2	29	60.1	37
ID 99-419	92	11.0	25	60.2	34
ID 99-435	86	11.1	33	61.3	38
ORH010920	81	12.2	31	60.8	28
<b>Average</b>	86	11.8	31	60.7	34
<b><u>Hard Red</u></b>					
MDM (HW)	87	12.1	56	59.3	38
IDO 641 (HW)	78	12.3	55	64.6	32
Boundary (HR)	80	12.2	64	62.1	32
Bauermeister (HR)	94	11.5	60	60.1	38
IDO 621 (HR)	84	11.7	60	62.5	30
<b>Average</b>	85	12.0	59	61.7	34
<b><u>Club</u></b>					
Chukar	86	10.5	36	58.9	33
Coda	84	12.1	39	61.9	35
Rohde	79	12.0	37	63.2	32
ARS 97135-9	85	11.1	35	58.7	31
<b>Average</b>	84	11.4	37	60.7	33
Overall Average	85	11.8	36	60.9	34
LSD (0.10)	6	--	--	0.8	2
CV (%)	6	--	--	1.1	4

Table 6. Winter wheat variety performance results at Moscow direct seeded, 2005-2006.

Variety or Selection	Seed Yield bu/acre	Seed Protein %	Hardness Score 0-100	Test Weight lb/bu	Plant Height inches
<b><u>Soft White</u></b>					
Brundage 96	86	9.8	24	59.2	34
Concept	84	9.7	24	60.5	31
Finch	88	9.5	28	61.4	34
Hubbard	84	9.8	28	61.0	38
IDO 587	77	10.3	27	59.9	31
Lambert	72	9.6	31	59.4	32
Madsen	80	9.6	25	59.7	33
Masami	88	8.8	27	58.5	34
Mohler	84	9.6	26	59.8	34
ORCF-101	77	10.2	26	59.9	32
ORCF-102	83	9.7	29	60.1	33
Simon	78	10.1	28	58.9	32
Stephens	78	10.1	27	59.3	30
Tubbs 06	86	9.3	29	59.1	35
WestBred 528	73	9.7	25	60.8	31
IDO 654	78	10.1	23	59.5	31
IDO 655	87	9.6	25	61.9	37
ID 92-22407A	87	9.8	20	60.0	35
ID 99-419	88	8.7	14	59.9	32
ID 99-435	76	10.0	31	59.5	36
ORH010920	76	10.5	27	59.2	27
<b>Average</b>	81	9.7	26	59.9	33
<b><u>Hard Red</u></b>					
MDM (HW)	86	9.4	45	61.1	34
IDO 641 (HW)	78	10.2	49	62.9	33
Boundary (HR)	77	10.5	59	61.1	31
Bauermeister (HR)	89	9.9	58	60.8	37
IDO 621 (HR)	76	10.4	59	62.0	29
<b>Average</b>	81	10.1	54	61.6	33
<b><u>Club</u></b>					
Chukar	88	9.6	32	59.2	35
Coda	79	10.2	36	62.1	34
Rohde	79	10.0	33	62.4	29
ARS 97135-9	87	10.1	34	58.6	32
<b>Average</b>	83	10.0	34	60.6	33
Overall Average	82	9.8	32	60.3	33
LSD (0.10)	7	--	--	0.5	2
CV (%)	7	--	--	0.7	4

Table 7. Winter wheat variety performance results at Bonners Ferry, 2005-2006.

Variety or Selection	Seed Yield bu/acre	Seed Protein %	Hardness Score 0-100	Test Weight lb/bu	Plant Height inches	Lodging %
<b><u>Soft White</u></b>						
Brundage 96	100	10.6	15	57.8	30	4
Concept	105	10.8	12	56.2	31	31
Finch	110	10.4	17	57.5	34	4
Hubbard	116	10.5	29	59.2	38	16
IDO 587	98	11.1	26	57.4	28	22
Lambert	114	11.1	33	57.7	32	36
Madsen	116	11.3	31	58.1	34	7
Masami	116	10.4	27	55.8	33	30
Mohler	119	10.2	22	59.1	34	32
ORCF-101	105	11.3	23	57.7	31	11
ORCF-102	114	10.9	24	58.5	33	11
Simon	108	10.8	26	58.4	32	14
Stephens	103	10.5	19	58.2	30	10
Tubbs 06	115	10.3	25	57.9	33	22
WestBred 528	121	11.2	23	59.8	32	15
IDO 654	105	10.5	21	58.0	28	18
IDO 655	106	10.3	22	59.2	32	41
ID 92-22407A	117	9.8	15	57.8	35	19
ID 99-419	118	9.6	13	57.1	32	22
ID 99-435	105	11.2	29	56.8	33	38
ORH010920	100	11.4	22	57.3	27	10
<b>Average</b>	110	10.7	23	57.9	32	20
<b><u>Hard Red</u></b>						
MDM (HW)	107	11.6	55	58.2	36	59
IDO 641 (HW)	100	11.4	45	60.2	30	52
Boundary (HR)	103	11.6	52	59.3	32	11
Bauermeister (HR)	104	11.3	51	57.6	34	79
IDO 621 (HR)	102	11.4	51	59.8	28	27
<b>Average</b>	103	11.5	51	59.0	32	46
<b><u>Club</u></b>						
Chukar	108	10.8	26	56.1	36	25
Coda	103	10.9	23	58.3	34	15
Rohde	107	11.4	27	59.7	32	9
ARS 97135-9	105	10.3	23	55.9	34	15
<b>Average</b>	106	10.9	25	57.5	34	16
Overall Average	108	10.8	28	58.0	32	24
LSD (0.10)	10	--	--	0.6	2	15
CV (%)	7	--	--	0.9	5	52

Table 8. Combined winter wheat performance data for Craigmont, Lewiston, Genesee, Moscow and Bonners Ferry, 2005-2006

Variety or Selection	Seed Yield						4 sites	5 sites	3 sites
	Craigmont	Lewstn.	Genesee	Moscow	B. Ferry	Average	Test Weight+	Plant Height	Lodging*
	-----bu/acre-----						lb/bu	inches	Lodging*
									%
<b>Soft White</b>									
Brundage 96	48	95	82	86	100	82	59.2	32	1
Concept	43	95	87	84	105	83	59.4	32	21
Finch	40	103	89	88	110	86	59.6	35	2
Hubbard	48	99	82	84	116	86	60.4	39	5
IDO 587	51	93	81	77	98	80	59.2	31	11
Lambert	45	106	75	72	114	82	59.3	34	14
Madsen	41	93	81	80	116	82	59.0	33	4
Masami	43	94	85	88	116	85	57.4	33	15
Mohler	47	102	92	84	119	89	60.0	34	20
ORCF-101	48	96	88	77	105	83	59.2	33	4
ORCF-102	57	99	100	83	114	91	60.2	35	4
Simon	48	99	85	78	108	84	59.5	33	5
Stephens	49	98	81	78	103	82	59.5	31	3
Tubbs 06	53	96	91	86	115	88	58.8	35	7
WestBred 528	48	108	82	73	121	86	61.1	32	8
IDO 654	47	95	80	78	105	81	58.9	31	10
IDO 655	54	86	96	87	106	86	60.4	37	27
ID 92-22407A	46	93	80	87	117	85	59.4	35	13
ID 99-419	43	91	92	88	118	86	58.9	33	9
ID 99-435	51	102	86	76	105	84	59.0	36	17
ORH010920	51	99	81	76	100	81	58.9	29	3
<b>Average</b>	48	97	86	81	110	84	59.5	33	12
<b>Hard Red</b>									
MDM (HW)	40	80	87	86	107	80	59.2	36	44
IDO 641 (HW)	38	94	78	78	100	78	62.5	32	31
Boundary (HR)	44	99	80	77	103	81	60.9	32	4
Bauermeister (HR)	42	70	94	89	104	80	58.9	36	50
IDO 621 (HR)	46	103	84	76	102	82	61.5	30	13
<b>Average</b>	42	89	85	81	103	80	60.6	33	22
<b>Club</b>									
Chukar	41	99	86	88	108	84	58.1	33	18
Coda	47	88	84	79	103	80	60.6	34	14
Rohde	45	88	79	79	107	80	61.9	31	10
ARS 97135-9	42	98	85	87	105	83	57.8	32	16
<b>Average</b>	44	93	84	83	106	82	59.6	33	14
Overall Average	46	95	85	82	108	83	59.6	32	13
LSD (0.10)	4	9	6	7	10	3	0.4	0.9	8
CV (%)	8	8	6	7	7	-	-	-	-

\*Lodging data are average of Craigmont, Lewiston and Bonners Ferry

+Test weight averages do not include Craigmont data, which had an average test weight of 48.4 lb/bu

Table 9. Grain yield averages for winter wheat varieties tested for three years in northern Idaho

Variety or Selection	2003-2004	2004-2005	2005-2006	Average
Number of Sites	5	5	5	15
	-----bu/acre-----			
<b><u>Soft White</u></b>				
Brundage 96	107	104	82	98
Concept	102	100	83	95
Finch	105	98	86	96
Hubbard	111	92	86	96
IDO 587	111	99	80	97
Lambert	111	106	82	100
Madsen	103	98	82	94
Mohler	113	107	89	103
ORCF-101	102	100	83	95
ORCF-102	110	103	91	101
Simon	104	101	84	96
Stephens	110	104	82	99
WestBred 528	110	109	86	102
<b>Average</b>	108	102	84	98
<b><u>Hard Red</u></b>				
Boundary	107	85	81	91
<b>Average</b>	107	85	81	91
<b><u>Club</u></b>				
Chukar	104	99	84	96
Coda	107	92	80	93
Rohde	109	99	80	96
<b>Average</b>	107	97	81	95
Overall Average	107	100	84	97
LSD (0.10)	5	4	3	-

Hard red winter wheat performance with nitrogen rate and application timing under replicated conventional-till and no-till management near Genesee, 2005-2006.

Nitrogen Treatment	Seed Yield		Test Weight		Seed Protein		Seed Hardness		Seed Weight	
	Conv-Till	No-Till	Conv-Till	No-Till	Conv-Till	No-Till	Conv-Till	No-Till	Conv-Till	No-Till
	-----bu/acre-----		-----lb/bu-----		-----%-----		---0-100---		-----g/200-----	
<b><u>N Fertilizer Timing</u></b>										
100% Fall	77	66	61.6	61.6	11.5	10.8	61	58	7.2	7.3
70% Fall + 30 % spring	73	67	61.5	61.4	11.4	11.0	59	58	7.3	7.1
60% Fall + 25% spring dry + 15% foliar at anthesis	73	68	61.8	61.8	11.4	10.8	59	58	7.5	7.4
LSD ( $P=0.05$ ) (among timing within tillage)	NS	NS	NS	NS	NS	NS	NS	NS	0.1	0.1
<b><u>N Fertilizer Rate (lb/acre)</u></b>										
50	68	57	62.0	62.1	10.7	10.0	59	58	7.8	7.8
75	74	62	62.0	61.9	11.0	10.1	60	57	7.7	7.5
100	73	68	61.5	61.0	11.2	10.5	59	57	7.3	7.4
125	81	71	61.9	61.7	11.7	11.3	62	59	7.4	7.3
150	76	72	61.1	61.2	12.0	11.6	59	58	6.9	6.9
175	77	72	61.2	60.8	12.0	11.9	59	59	6.9	6.7
Average	75	67	61.6	61.6	11.4	10.9 *	60	58	7.3	7.3
LSD ( $P=0.05$ )+	4	4	0.4	0.4	0.2	0.2	2	2	0.2	0.2
C.V.(%)	9	9	1.1	1.1	3.7	3.7	5.6	5.6	4.7	4.7

\* No-till values followed by an asterisk are significantly different than the conventional-till value  
+ among rates within tillage

Hard red winter wheat performance with nitrogen rate and application timing under replicated conventional-till and no-till management near Genesee, 2005-2006.

Nitrogen Treatment	Plant Height		Heads		Biomass		Harvest Index	
	Conv- Till	No- Till	Conv- Till	No- Till	Conv- Till	No- Till	Conv- Till	No- Till
	----inches----		---no./sq.ft.---		--1000 lb/acre--		---0.0-1.0---	
<b><u>N Fertilizer Timing</u></b>								
100% Fall	32	30	59.4	58.7	12210	10900	0.47	0.46
70% Fall + 30 % spring	31	31	59.2	65.4	12130	11890	0.47	0.46
60% Fall + 25% spring dry + 15% foliar at anthesis	31	31	57.8	64.2	11840	12010	0.47	0.46
LSD (P=0.05) (among timing within tillage)	NS	NS	NS	NS	NS	NS	NS	NS
<b><u>N Fertilizer Rate(lb/acre)</u></b>								
50	31	30	49.8	50.6	10910	9590	0.47	0.46
75	31	30	58.8	58.9	12280	11250	0.48	0.46
100	31	30	56.6	61.2	11760	11470	0.47	0.46
125	32	31	63.7	63.8	13270	12240	0.47	0.46
150	31	31	59.5	74.3	11670	1290	0.47	0.46
175	32	32	64.3	67.8	12480	12150	0.46	0.44
Average	31	31	58.8	62.7	12060	11600	0.47	0.46
LSD (P=0.05)*	1	1	6.8	6.8	1104	1104	0.01	0.01
C.V.(%)	4	4	19.5	19.5	16	16	5.4	5.4

\* among rates within tillage