

Wheat Research Progress Report

Project #: 4150-2295

Title: Evaluation of Wheat Varieties

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Progress Report Year: 2008

ACCOMPLISHMENTS:

1. **2008 Nurseries (Table 1):** The WSU Extension Uniform Cereal Variety Testing Program (Variety Testing Program) evaluated performance of 132 different entries of winter and spring wheat varieties/experimental lines in replicated trials in 2008. Both winter and spring wheat nurseries included nearly all commercially available public varieties from the Pacific Northwest, experimental lines from public breeding programs that are being considered for release and proprietary varieties/experimental lines entered on a 'fee for entry' basis. All trials within a grain class were evaluated with the same entries across locations and are thus termed 'uniform' meaning all entries are planted at each location with the same experimental design. **Soft White Winter Wheat (SWWW)** trials were established at 18 dryland locations and one irrigated (Moses Lake, center pivot irrigation) location (Table 1). Each SWWW nursery had 7 soft white club and 43 soft white common entries. Eleven dryland **Hard Winter Wheat (HWW)** nurseries included 24 hard red winter (HRW) and 6 hard white (HWWW) winter entries. An irrigated (Moses Lake) hard winter nursery included 16 HRW and 4 HWWW winter entries. Specific fertility programs for the hard winter wheat nurseries were conducted to provide conditions similar to grower management and produce good protein levels for quality determinations. Fertilizer rates were based on a yield goal, determined by annual precipitation, residual soil nitrogen, and cropping history. Total nitrogen supply was based on 3.0# N per expected bushel for both HRW and HWWW. **Spring Wheat** nurseries were established at 14 dryland locations. Each spring wheat location had separate soft white spring (SWSW), hard white spring (HWSW), and hard red spring (HRSW) nurseries. Separate fertility management was conducted for each market class to provide conditions similar to grower management and produce good protein levels for quality determinations. Fertilizer rates were based on a yield goal, determined by annual precipitation, residual soil nitrogen, and cropping history. Total nitrogen supply was based on 2.7#N/bushel for SWSW, 3.2#N/bushel for HWSW, and 3.7#N/bushel for HRSW. There were 17 common and 4 club entries evaluated in the SWSW nurseries, 12 HWSW entries

evaluated in the hard white nurseries, and 21 HRSW entries in the hard red nurseries. Nearly 50% of the total trial entries were cultivars developed at WSU by WSU or USDA/ARS programs. Table 2 provides an overview of market class entries by originator and characteristics. These data show that averaged across trial types, over 50% of the entries originated from WSU or WSU based USDA-ARS programs. The variety trials continue to support cultivar development for Washington by Washington based breeding programs. In addition, some of the proprietary varieties are from Washington programs. A review of the fee structure for proprietary varieties is underway, and preliminary analysis shows that there is greater input by WSU and the Washington Wheat Commission than by the proprietary fees on a per entry per location basis, and thus proprietary entry fees may be restructured to gain closer parity among contributors to the Variety Testing Program.

TABLE 1. WSU Variety Testing Nursery Locations: 2008

	HARD (RED/WHITE) WINTER	SOFT WHITE WINTER	SPRING: SOFT WHITE HARD RED HARD WHITE
1	Almira	Almira	Almira
2	Connell	Anatone	Bickleton (No-till)
3	Dayton	Bickleton (No-till)	Connell
4	Horse Heaven	Colton	Dayton
5	Lamont	Connell	Endicott
6	Lind (WSU Research Station)	Dayton	Farmington
7	Pullman	Dusty	Horse Heaven
8	Reardan	Fairfield	Lamont
9	Ritzville	Farmington (No-till)	Lind (Lind Research Station)
10	St Andrews	Harrington	Mayview
11	Walla Walla (not reported)	Lamont	Moses Lake (irrigated)
12		Lind (Lind Research Station)	Pullman (Spillman Farm)
13		Mayview	Reardan (No-till)
14		Moses Lake (irrigated)	St John
15		Pullman	Walla Walla
16		Reardan	
17		Ritzville	
18		St Andrews	
19		St John	
20		Walla Walla	
21		Wilbur-Creston	

Table 2. Source and Characteristics of Entries into the WSU Variety Testing Program nurseries.

Market Class	Percent (%) of entries					
	WSU	U Idaho	OSU	Proprietary	IMI (Clearfield)	Blends
SW Winter	37	14	14	27	16	8
Hard Winter	47	10	3	40	3	0
SW Spring	81	10	0	10	0	0
HW Spring	58	8	0	33	0	0
HR Spring	36	7	0	57	4	0
Average	52	10	3	33	5	2

2. **Novel Traits:** Included in the SWWW nurseries were eight cultivars that carried the Clearfield[®] novel trait characteristic that confers tolerance to IMI (Imidazolinone) herbicides in plants. This was the sixth consecutive year that Clearfield[®] varieties were evaluated in the Variety Testing Program and producers were able to make multiple-year comparative decisions on adaptation of these cultivars across multiple locations. Clearfield entries were not sprayed with Beyond[®] due to logistic considerations and experimental bias that application would create.
3. **WEB Site:** <http://variety.wsu.edu/> The web site for the Variety Testing Program continued to be an important extension programming tool for information dissemination. Another tool used for electronic based information dissemination is a list serve (prelimdata@lyris.cahnrs.wsu.edu) that enables subscribers to receive e-mail with quick turn around time of post harvest data sent out prior to being posted on the web site. There are over 160 subscribers to this server that represented many interested persons that use variety performance information. An additional feature of both the web site and list serve is inclusion of interpretation abstracts from each location that provides information about the data.
4. **Field days/tours** were conducted at nursery locations and other special events in 2008 at 18 separate locations (Table 3). At nearly all tour locations there are actually multiple nurseries viewed and discussed since many winter and spring nurseries are co-located. At these events, many wheat breeders/research scientists from both public and private breeding programs participated at different tours along with WSU County Extension Educators. Special emphasis was placed on providing growers with comparative historical yield and quality evaluations at each location. Printed data summary sheets were provided and used with all presentations at the tour sites. A special thanks goes to Steve VanVleet, Extension educator for Whitman Co., for his work to make sure these tours were conducted in the absence of a principle investigator in the Variety Testing Program
5. **AGROBASETM Generation II:** The Variety Testing Program expanded use of a new database management system that utilizes AGROBASETM Generation II software (Agronomix Software Inc., Winnipeg, Manitoba, Canada). This software program increased efficiency and accuracy by integrating data management, field experimental designs, and data entry and analysis.

Table 3. 2008 Crop Tours in Washington and nearby areas.

<i>Date</i>	<i>Time</i>	<i>Tour</i>	<i>Contact Information</i>
4-Jun	9:30 AM	Horse Heaven	Phil Petersen, 509-545-3511
5-Jun	6:00 PM	Connell	Phil Petersen, 509-545-3511
10-Jun	7:00 AM	Western Whitman County Research Tour	Steve Van Vleet , 509-397-6290
10-Jun	8:30 AM	Pendleton Field Day	Don Wysocki, 541-278-4396
11-Jun	7:30 AM	Moro Field Day	Don Wysocki, 541-278-4396
11-Jun	8:00 AM	Moses Lake	Andy McGuire, 509-754-2011
12-Jun	7:30 AM	U of I Weed Tour	Donn Thill, 208-885-6214
17-Jun	8:00 AM	St. John	Steve Van Vleet , 509-397-6290
18-Jun	8:00 AM	Walla Walla	John Fouts, 509-524-2685
18-Jun	8:30 AM	Organic Dryland Production Systems	Dennis Pittmann, 509-335-7484
19-Jun	8:30 AM	Lind Field Day	Bill Schillinger, 509-235-1933
20-Jun	5:00 PM	St. Andrews	Dale Whaley, 509-745-8531
24-Jun	7:00 AM	Fairfield	Diana Roberts, 509-477-2167
25-Jun	7:00 AM	Reardan	Diana Roberts, 509-477-2167
25-Jun	9:30 AM	Wilke Farm Field Day, Davenport, WA	Aaron Esser, 509-659-3210
25-Jun	7:30 AM	UI Oilseed Field Day, Parker Farm, Moscow, ID	Jack Brown, 208-885-7078
26-Jun	7:00 AM	Almira	Diana Roberts, 509-477-2167
26-Jun	7:30 AM	Bioenergy Cropping Systems Research Field Day (Palouse Conservation Field Station)	David Huggins, 509-335-3379
26-Jun	6:00 PM	Pullman	Steve Van Vleet , 509-397-6290
27-Jun	8:00 AM	Mayview	Dave Bragg, 509-843-3701
27-Jun	2:30 PM	Anatone	Mark Heitstuman, 509-243-2009
30-Jun	8:30 AM	Dayton	Paul Carter, 509-382-4741
1-Jul	6:00 PM	Pullman Twilight Pulse Crop Tour	Kevin McPhee, 509-335-9522
8-Jul	6:00 PM	Colton (Genesee/Johnson Union)	Steve Van Vleet , 509-397-6290
10-Jul	12:00 PM	Bickleton	Susan Kerr, 509-773-5817

6. Harvest Results: 1-2-Day Turn-around: Winter wheat harvest results were sent electronically to plant breeders, researchers, Extension personnel, producers, and industry personnel within 2-days after harvest for all winter wheat data. Spring wheat data was completed and available within the first two weeks of September 2008. Spring wheat data was usually submitted within one week of harvest. Winter wheat performance data was given highest priority to be made available for producers to use in making fall 2008 winter wheat variety planting decisions. All data was also posted to the Variety Testing Program web site (<http://variety.wsu.edu/>) very soon after harvest.

7. **WSCIA Seed Buying Guides:** Variety Testing Program data from the winter and spring wheat nurseries is used exclusively for development and publication of the WSCIA 2008 Spring Variety Seed Buying Guide and the WSCIA 2008 Winter Seed Buying Guide. This is the sole source of production data listed in these Seed Buying Guides.
8. **Wheat Quality: Genotype by Environment (GxE) Research Project:** The Variety Testing Program continued to play a major role in enhancing the ability of the USDA/ARS Western Wheat Quality Lab (WWQL), Pullman, WA to conduct genotype by environment (GxE) analysis of winter and spring wheat varieties for quality evaluations by providing sub-samples of varieties harvested and processed from all testing locations. Over 5000 individual samples of winter and spring wheat were provided for quality determination to the WWQL and over 600 of these samples were used for complete milling and baking studies for the multi-year GxE research project. The data collected from the G&E samples are important in variety release decisions in Washington. They often represent over half of the data analyzed for variety release decisions. The balance of samples was used extensively in support of other wheat quality research. The Western Wheat Quality Lab accounted for over 95% of all samples provided for further quality evaluations with the balance of the samples provided to other public and private wheat breeders.
9. **Federal Grain Inspection Service (FGIS): Market Class Evaluations:** Unidentified (blind) samples of new winter and spring wheat varieties/experimental lines from public and private breeding programs were submitted to USDA Federal Grain Inspection Service (FGIS), Olympia, WA to obtain preliminary market class grain grade evaluations. Each sample consisted of 50 grams of seed of an individual variety from each location. FGIS quality assurance specialists evaluated hundreds of samples from the 2008 nurseries. This was the seventh consecutive year that winter and spring variety samples were submitted as blind sample packets for evaluation. All grade and quality results are provided to the respective wheat breeder to assist in making variety release decisions.

10. Additional Supporting Accomplishments:

- Location Map Book – 2008 Winter Wheat, a reference document that includes nursery maps, plot schematics and individual road location maps for all nursery sites. Location maps were also posted on the web site.
- Location Map Book – 2008 Spring Wheat, a reference document that includes nursery maps, plot schematics and individual road location maps for all nursery sites. Location maps were also posted on the web site.
- 2008 Winter Wheat Cultural Record Book, a reference document that includes all agronomic data associated with each nursery
- 2008 Spring Wheat Cultural Record Book, a reference document that includes all agronomic data associated with each nursery
- Individual seed weight measurements for each variety that provides planting on a seeds per square foot basis so each plot has the same seeding density.
- Providing X. Chen, USDA/ARS Plant Pathologist, with complete winter and spring nursery seed entry sets to establish multiple winter and spring wheat stripe rust evaluation trials in eastern and western Washington. The synergism associated with the Variety Testing Program and the USDA/ARS Plant Pathology

programs provided extensive information on stripe rust resistance and susceptibility among commercial and experimental varieties. These data sets are included in the [2008 Cereal Variety Evaluation Results](#) and are posted to the Variety Testing Program web site (<http://variety.wsu.edu/>)

- **Supplemental Agronomic Data:** The Variety Testing Program also collected early spring regrowth notes at winter wheat nurseries to aid in varietal adaptation and winter survival estimates. Heading dates and plant height values were collected at each location for all entries and replications of both winter and spring wheat trials. These data provide a comprehensive evaluation of variety performance across all locations that are unavailable from other sources. Wheat breeders use these data to provide better evaluation of variety performance and maturity date variances across years and environments
- All locations were characterized using GPS for each nursery location with an accuracy of 30 feet and presented in latitude and longitude to tenths of a second accuracy. Other location information includes elevation, fertility, fertilizer added, crop year precipitation, soil type, previous crop plot schematics, previous crop history, seeding rate, seeding method, row spacing, seeding date, harvest date, and harvested area in addition to grain yield and quality data.
- All data were statistically analyzed for the current year and across 2-year, 3-year and 5-year data to provide historical averages. This is a unique data set available for producers to use when making varietal selection decisions using multi-year location information for nearly all commercially available winter and spring wheat varieties. The 2008 summaries were changed from across all location averages to an improved interpretation format of multi-location results by summarizing yield, test weight and protein within precipitation zones. This allows persons in the low rainfall area, for example, to have averaged 2008 performance results across the low rainfall locations. This also reduces variety and location interaction when interpreting summarized performance.

RESULTS:

1. **Data Sets:** 73 individual data sets and an additional 19 Summary Tables (attached) from the 2008 Variety Testing Program for each class of winter and spring wheat were developed and posted on the Variety Testing Program web site (<http://variety.wsu.edu/>). Included with the individual data sets are narrative discussions that described specific conditions influencing yield and quality performance at each location for both winter and spring wheat market classes. These descriptive narratives were also sent to all e-mail subscribers to the preliminary data list serve that received data immediately after harvest processing. Many locations included both hard and soft winter wheat trials and these locations enabled growers to make more informed decisions by comparing soft white and hard red winter wheat alternatives.
2. **Web site:** The web site (<http://variety.wsu.edu/>) has become one of the most efficient and accessible sources of information evidenced by high numbers of documented usage during peak periods prior to fall 2008 planting that assisted growers in making planting decisions. During FY08 the Variety Testing Program web site recorded over 405,000 hits with over

47,000 different visitors. These same estimates are expected for FY09.

3. **Historical averages:** Use of the data set that include 2, 3, and 5-year averages, agronomic performance, disease resistance, and other characteristics are considered to have accelerated the adoption of high performing varieties at specific agroclimatic regions that will result in at least a five bushel per acre yield increase for producers when they choose better adapted varieties. This process of updating varieties is an ongoing process for growers and providing timely, unbiased, and encompassing information aids adoption of new varieties. Providing good information when new cultivars are available speeds the technology to growers and increases the value of the investments in variety development. A good example of rapid adoption of a new variety is Xerpha. In the 2008 variety trials, Xerpha averaged 6-16 bu/a higher yield than the widely grown varieties Eltan, Madsen, Stephens, and ORCF-102. Xerpha foundation seed was sold out for 2008 planting and acreage of Xerpha should increase to the limit of seed availability. This desire for Xerpha is based on the consistent high performance in the variety trials.
4. **Outreach:** Nursery tours continued as an effective venue to communicate and market opportunities for the use of new varieties as well as familiarize pending releases from public and private breeding programs. Participation was good at the nursery tours and most individuals that grow wheat participated in at least one of the many Extension tours or other educational venues. It is estimated that tour attendees represented at least 90% of the commercial certified seed industry of Washington State and grower attendance is estimated to account for at least 30%-40% of the wheat acreage planted in the state. Results from the 2008 trials are scheduled to be published in the Washington Association of Wheat Growers monthly magazine, *Wheat Life*, and will be used in other popular press articles and at short courses, workshops and grower meetings.

PUBLICATIONS:

1. Guy, S. and Kuehner J., Cereal Variety Performance Trials – December 2008, WSU Dept of Crop and Soil Sciences Tech Report (in final preparation).
2. Guy, S., Marsh D. and Kuehner J., Variety Testing Web Site: <http://variety.wsu.edu/>, Sep 2007, Includes current year and historical variety data.

PRESENTATIONS AND REPORTS:

1. Variety Testing Program Update, 25 Nov 2008, Spokane Co. Crop Improvement Assn Meeting, Spokane, WA, 60 participants
2. Variety Testing Program Update, 17 Nov 2008, Washington State Crop Improvement Assn Annual Meeting, Spokane, WA, 140 participants
3. Variety Testing Program Update, 5 Nov 2008, Adams Co. Crop Improvement Assn Meeting, Ritzville, WA, 25 participants
4. On behalf of the Variety Testing Program presenting, many presentations were made at field tours and other meetings by associated individuals before the new principle investigator for the project started in that capacity in October, 2008. The variety program continued during the gap when a project leader was not in place by directions from Bill Pan, the tireless hard work of John Kuehner, and many other persons who helped with the project.

Attachments:

1. 2008 WSU Soft White Winter Wheat Variety Trial Summary, greater than 20" inch PPT
2. 2008 WSU Soft White Winter Wheat Variety Trial Summary, 16-20" PPT
3. 2008 WSU Soft White Winter Wheat Variety Trial Summary, 12-16" PPT
4. 2008 WSU Soft White Winter Wheat Variety Trial Summary, less than 12" PPT
5. 2008 WSU Hard Red Winter Wheat Variety Trial Summary, greater than 16" PPT
6. 2008 WSU Hard Red Winter Wheat Variety Trial Summary, 12-16" PPT
7. 2008 WSU Hard Red Winter Wheat Variety Trial Summary, less than 12" PPT
8. 2008 WSU Soft White Spring Wheat Variety Trial Summary, greater than 20" inch PPT
9. 2008 WSU Soft White Spring Wheat Variety Trial Summary, 16-20" PPT
10. 2008 WSU Soft White Spring Wheat Variety Trial Summary, 12-16" PPT
11. 2008 WSU Soft White Spring Wheat Variety Trial Summary, less than 12" PPT
12. 2008 WSU Hard White Spring Wheat Variety Trial Summary, greater than 20" inch PPT
13. 2008 WSU Hard White Spring Wheat Variety Trial Summary, 16-20" PPT
14. 2008 WSU Hard White Spring Wheat Variety Trial Summary, 12-16" PPT
15. 2008 WSU Hard White Spring Wheat Variety Trial Summary, less than 12" PPT
16. 2008 WSU Hard Red Spring Wheat Variety Trial Summary, greater than 20" inch PPT
17. 2008 WSU Hard Red Spring Wheat Variety Trial Summary, 16-20" PPT
18. 2008 WSU Hard Red Spring Wheat Variety Trial Summary, 12-16" PPT
19. 2008 WSU Hard Red Spring Wheat Variety Trial Summary, less than 12" PP

TABLE: 2008 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
Precipitation Zone=>20"

VARIETY NAME <i>(SWH Club in italics)</i>	COLTON	FAIRFIELD	FARMINGTON	MOSES LAKE <i>(Irrigated)</i>	PULLMAN	AVERAGE YIELD	COLTON	FAIRFIELD	FARMINGTON	MOSES LAKE <i>(Irrigated)</i>	PULLMAN	AVERAGE TEST WEIGHT	COLTON	FAIRFIELD	FARMINGTON	MOSES LAKE <i>(Irrigated)</i>	PULLMAN	AVERAGE PROTEIN
	YIELD (BU/A)						TEST WEIGHT (LBS/BU)						PROTEIN (%)					
XERPHA	130	78	129	189	157	137	60.2	60.5	57.8	60.8	56.3	59.1	11.2	10.5	11.4	12.7	11.2	11.4
ID990435	145	85	116	178	153	135	61.0	60.1	56.2	60.9	55.7	58.8	11.7	10.5	12.1	12.7	11.3	11.7
ORCF-102	137	102	124	173	132	134	59.8	60.5	57.2	61.7	54.7	58.8	11.5	10.6	12.3	12.4	11.6	11.7
LEGION	132	85	118	191	140	133	59.1	60.0	55.6	60.2	54.6	57.9	12.0	10.4	12.3	12.3	11.6	11.7
LAMBERT	128	80	121	190	143	132	61.3	60.6	57.5	61.2	56.0	59.3	11.8	10.7	11.3	12.5	11.1	11.5
AP 700 CL	131	96	119	177	135	132	60.4	60.8	56.6	59.6	54.1	58.3	11.8	10.7	12.0	12.2	11.8	11.7
ORCF-103	139	99	115	172	125	130	59.8	60.0	57.7	60.7	55.3	58.7	11.8	10.4	12.1	12.4	11.8	11.7
ORF2267-03	132	87	113	170	144	129	60.2	60.5	57.3	60.6	56.3	59.0	11.4	9.9	11.6	12.4	11.0	11.3
9364901A	135	72	105	176	156	129	59.6	59.4	56.5	61.5	55.8	58.6	11.6	10.2	12.0	12.0	11.2	11.4
ID02-859	128	83	119	162	148	128	59.4	60.1	56.6	59.8	54.6	58.1	11.6	10.0	11.5	12.6	11.2	11.4
ARS960277L	133	74	110	181	143	128	60.8	60.1	57.8	61.3	56.6	59.3	11.0	10.2	11.2	11.8	10.8	11.0
ROD/TUBBS06	128	74	112	180	137	126	59.4	58.9	56.0	60.9	54.8	58.0	11.3	10.3	12.0	12.4	11.3	11.5
ELTAN	140	93	97	162	139	126	60.7	59.4	58.4	60.6	55.9	59.0	11.3	10.1	11.7	12.2	11.5	11.4
SALUTE	129	75	106	190	131	126	60.3	58.9	56.0	61.2	54.4	58.2	12.0	10.8	12.2	12.5	11.7	11.8
WA008065	120	79	107	193	126	125	61.9	61.6	56.9	62.3	55.9	59.7	12.2	11.0	12.7	12.7	12.3	12.2
GEORGE	131	88	110	157	140	125	59.6	57.0	57.3	61.1	56.0	58.2	11.1	10.1	12.0	12.1	11.4	11.3
FINCH	128	67	116	165	150	125	61.3	60.3	59.1	61.6	58.5	60.2	10.8	10.5	11.0	12.6	10.5	11.1
ORCF-101	127	90	114	165	126	125	60.0	60.6	56.6	61.4	53.9	58.5	12.4	10.6	12.7	12.9	12.0	12.1
ELTAN/TUBBS06	131	83	107	168	133	125	60.3	59.6	57.7	60.6	55.0	58.6	11.3	10.2	11.5	12.5	11.8	11.5
TUBBS 06	126	74	92	187	144	125	59.3	59.1	55.7	60.4	54.4	57.8	11.5	10.0	11.9	11.7	11.2	11.3
MJ-9	126	72	109	174	139	124	58.9	60.0	55.7	60.1	54.1	57.8	11.6	10.5	12.3	12.6	11.6	11.7
WB 1020M	121	99	107	174	119	124	61.1	61.3	56.0	61.8	54.2	58.9	11.5	10.2	12.7	12.4	11.9	11.7
RJAMES	118	79	104	174	141	123	57.7	58.3	54.0	60.5	53.5	56.8	11.5	9.6	11.6	11.8	10.5	11.0
ROD	123	68	93	186	143	123	59.3	59.1	55.5	61.1	54.7	57.9	11.3	10.3	11.7	12.2	11.1	11.3
WB 523	121	79	103	169	140	122	61.5	61.9	57.2	62.7	55.8	59.8	11.7	10.5	11.7	12.7	11.4	11.6
MADSEN/ROD	122	82	104	176	127	122	59.2	59.7	56.4	61.1	54.6	58.2	11.8	10.4	11.9	12.5	11.5	11.6
BRUEHL	124	78	105	172	130	122	58.3	58.1	56.1	58.9	54.6	57.2	12.0	10.6	12.4	12.8	11.5	11.9
WA008066	129	62	103	173	143	122	61.2	59.1	58.5	61.5	58.6	59.8	11.4	10.7	11.6	12.5	11.1	11.5
STEPHENS	129	68	92	191	127	122	60.4	60.0	56.8	61.2	54.9	58.7	11.8	10.5	11.7	11.8	11.2	11.4
WB-528	130	72	98	183	125	121	61.9	61.2	57.4	62.5	56.2	59.8	12.4	10.1	12.4	12.6	11.4	11.8
BRUNDAGE 96	120	81	108	163	133	121	59.2	59.1	56.1	59.9	54.3	57.7	11.8	10.0	11.8	12.5	11.5	11.5
OR2050910	119	62	108	184	132	121	58.8	58.5	55.4	60.6	54.8	57.6	12.3	11.0	12.4	12.6	11.6	12.0
MASAMI	111	74	106	168	145	121	58.2	58.8	56.9	60.2	55.8	58.0	11.3	10.2	11.0	12.0	10.9	11.1
WA008064	113	70	93	192	135	121	60.6	61.1	56.7	60.4	55.8	58.9	12.2	11.4	12.5	12.2	11.8	12.0
ELTAN/MADSEN	122	76	106	161	131	119	60.0	58.7	56.9	60.6	55.5	58.3	11.9	10.2	11.8	12.8	11.5	11.6
WA008063	110	74	91	186	133	119	61.0	60.8	57.2	60.6	55.6	59.0	12.2	11.5	12.6	12.3	12.1	12.1
SIMON	118	60	94	187	132	118	59.7	59.4	56.1	61.5	55.7	58.5	11.3	10.7	12.5	12.1	11.9	11.7
BITTERROOT	115	65	95	180	128	116	60.3	59.3	56.6	62.0	55.9	58.8	10.7	10.1	12.3	11.7	11.5	11.3
BZ6WM04-1066	123	74	104	154	125	116	62.1	62.5	59.0	63.2	55.6	60.5	13.4	12.4	13.4	14.1	12.6	13.2
ARS970278-2	123	63	91	170	123	114	60.7	60.0	56.8	61.0	55.6	58.8	12.0	11.0	12.4	13.1	11.2	11.9
CASHUP	98	73	104	165	131	114	60.0	60.9	55.9	61.3	55.8	58.8	11.6	10.1	12.1	12.7	11.4	11.6
ARS970075-3	115	81	80	177	118	114	60.3	60.4	55.4	62.4	54.9	58.7	12.5	10.7	12.4	13.2	11.7	12.1
MADSEN	108	71	91	174	117	112	59.0	59.4	55.2	61.0	54.1	57.7	12.0	10.4	12.6	12.3	11.8	11.8
SKILES	102	76	99	169	112	112	58.7	60.0	56.2	61.3	54.8	58.2	12.6	10.6	12.6	13.0	12.3	12.2
CODA	123	73	83	148	129	111	61.8	62.1	56.0	62.2	56.4	59.7	12.2	10.4	12.6	14.0	12.1	12.3
WB 456	102	66	91	167	117	109	60.8	62.3	55.9	63.4	54.2	59.3	12.9	11.0	13.4	13.1	12.7	12.6
ARS970168-2C	107	76	94	156	105	108	59.9	60.7	57.2	61.3	55.1	58.8	11.8	10.6	11.9	12.3	11.7	11.7
CHUKAR	107	64	80	148	114	103	58.3	58.4	54.8	61.3	54.1	57.4	12.0	10.7	12.5	13.4	11.6	12.0
CARA	103	63	76	159	106	101	57.5	58.9	53.4	61.0	52.4	56.6	12.7	10.7	13.0	13.6	12.0	12.4
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	9	13	10	4	8	8	1.2	1.3	1.5	0.8	1.3	1.2	4.6	5.3	3.9	3.1	3.4	4.1
LSD (0.10)	12	11	12	9	13	5	0.8	0.9	1.0	0.6	0.9	0.4	0.6	0.7	0.6	0.5	0.5	0.2
Average	123	77	103	174	133	122	60.0	60.0	56.6	61.1	55.2	58.6	11.8	10.5	12.1	12.5	11.5	11.7
Highest	145	102	129	193	157	137	62.1	62.5	59.1	63.4	58.6	60.5	13.4	12.4	13.4	14.1	12.7	13.2
Lowest	98	60	76	148	105	101	57.5	57.0	53.4	58.9	52.4	56.6	10.7	9.6	11.0	11.7	10.5	11.0

TABLE: 2008 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
Precipitation Zone=16"-20"

VARIETY NAME (<i>SWH Club in italics</i>)	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE YIELD
	YIELD (BU/A)					
XERPHA	133	94	80	134	154	119
ORF2267-03	119	104	77	127	147	115
ROD	118	93	71	121	144	109
ARS960277L	112	82	64	138	147	109
ORCF-102	119	100	75	115	133	108
LEGION	118	95	67	129	131	108
FINCH	112	87	88	121	132	108
SKILES	110	91	78	126	133	108
ROD/TUBBS06	118	93	66	121	138	107
ARS970075-3	105	96	85	112	139	107
WB-528	118	99	58	125	135	107
ORCF-101	119	91	71	122	132	107
ID02-859	112	83	87	120	132	107
MADSEN/ROD	117	93	78	117	129	107
WA008066	105	85	82	121	137	106
BRUNDAGE 96	117	88	79	122	122	106
ELTAN/TUBBS06	109	95	79	117	127	105
GEORGE	103	92	83	120	128	105
SALUTE	117	87	59	126	135	105
MASAMI	112	92	75	118	126	104
LAMBERT	113	82	60	133	134	104
CARA	105	82	79	120	136	104
BRUEHL	114	96	72	109	130	104
CHUKAR	107	84	77	116	136	104
MJ-9	110	92	65	116	135	104
WB 523	109	89	71	121	126	103
WA008064	114	88	59	123	132	103
TUBBS 06	105	86	59	126	139	103
SIMON	106	86	60	125	139	103
RJAMES	114	92	70	121	117	103
WA008063	114	87	67	111	131	102
CODA	107	86	76	106	131	101
ELTAN/MADSEN	107	94	78	117	111	101
WA008065	108	88	66	123	121	101
CASHUP	98	87	67	116	133	100
WB 456	112	81	65	122	120	100
9364901A	103	93	60	117	122	99
ORCF-103	105	88	68	113	118	99
ELTAN	108	89	71	107	117	98
MADSEN	102	85	65	110	131	98
ARS970278-2	103	83	64	109	132	98
BITTERROOT	98	87	66	111	130	98
STEPHENS	108	86	52	114	130	98
WB 1020M	99	87	62	115	126	98
AP 700 CL	109	84	55	116	121	97
OR2050910	111	84	50	121	114	96
ARS970168-2C	96	83	79	106	114	96
ID990435	102	78	53	112	123	93
BZ6WM04-1066	103	67	69	104	101	89
	STATISTICS					
CV (%)	6	8	16	9	7	9
LSD (0.10)	7	8	13	13	10	5
Average	110	88	70	119	130	103
Highest	133	104	88	138	154	119
Lowest	96	67	50	104	101	89

DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE TEST WEIGHT	
TEST WEIGHT (LBS/BU)						
58.6	59.9	58.8	59.6	60.2	59.4	
58.0	60.3	58.8	59.3	60.2	59.3	
57.5	59.8	57.7	57.0	59.2	58.2	
57.2	59.1	58.7	59.0	59.8	58.8	
59.4	60.7	58.3	60.4	60.8	59.9	
56.1	58.6	56.6	56.5	59.4	57.4	
59.4	60.7	59.5	59.0	61.4	60.0	
59.0	61.0	58.3	58.8	61.2	59.7	
57.7	59.8	56.9	57.4	59.6	58.3	
58.8	60.2	59.3	58.1	60.5	59.4	
60.7	62.2	59.2	61.0	61.6	60.9	
57.4	59.5	56.9	58.5	60.0	58.5	
58.3	58.4	57.4	57.0	60.0	58.2	
58.7	59.5	58.1	58.2	59.7	58.8	
59.2	60.9	59.2	59.7	61.5	60.1	
58.4	59.4	57.9	57.3	59.6	58.5	
58.9	60.2	57.9	58.3	60.2	59.1	
58.6	59.9	58.9	58.9	59.6	59.2	
56.9	58.7	57.1	57.6	59.0	57.9	
58.0	58.9	57.1	57.6	59.3	58.2	
58.5	59.0	58.2	58.9	59.9	58.9	
57.0	59.7	58.1	57.5	58.4	58.1	
56.3	58.7	57.5	56.4	57.5	57.3	
57.1	58.7	58.7	57.3	58.7	58.1	
55.5	58.4	56.8	56.3	59.3	57.3	
60.6	61.6	59.0	59.9	61.1	60.4	
58.1	59.3	59.1	58.2	59.8	58.9	
57.3	58.4	57.0	58.0	60.0	58.1	
58.7	59.7	57.9	59.2	60.1	59.1	
58.0	58.8	57.3	57.2	59.1	58.1	
58.1	59.5	60.0	57.9	59.7	59.0	
59.3	61.9	60.1	58.9	61.3	60.3	
59.4	60.5	58.8	59.5	60.4	59.7	
59.2	60.1	58.2	59.0	62.0	59.7	
59.9	60.5	58.8	59.3	60.7	59.8	
60.6	61.6	59.2	60.9	62.3	60.9	
59.3	60.0	57.8	59.5	60.8	59.5	
58.6	60.4	58.5	58.7	59.7	59.2	
60.2	61.0	59.6	58.9	60.3	60.0	
59.3	59.7	58.1	58.1	60.4	59.1	
57.5	60.2	59.4	57.8	58.8	58.7	
59.8	60.1	58.5	60.0	60.6	59.8	
56.4	58.1	56.9	56.9	59.8	57.6	
59.3	59.9	57.8	58.6	60.5	59.2	
56.9	58.9	56.1	57.2	60.6	57.9	
57.3	59.0	54.3	57.1	59.3	57.4	
58.9	61.1	61.0	59.3	60.9	60.2	
58.1	58.7	57.1	58.5	59.5	58.4	
60.5	62.3	60.0	61.0	61.8	61.1	
	STATISTICS					
1.1	1.4	1.2	1.6	0.6	1.2	
0.7	1.0	0.8	1.1	0.4	0.4	
58.4	59.9	58.2	58.5	60.1	59.0	
60.7	62.3	61.0	61.0	62.3	61.1	
55.5	58.1	54.3	56.3	57.5	57.3	

DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE PROTEIN	
PROTEIN (%)						
12.5	12.5	12.6	11.0	10.3	11.8	
12.1	11.5	12.6	10.9	9.6	11.3	
12.3	11.1	13.1	11.5	9.6	11.5	
12.2	12.0	12.6	10.2	9.2	11.2	
12.4	11.6	13.1	11.1	9.8	11.6	
12.6	11.7	12.8	11.5	10.3	11.8	
12.8	12.2	12.3	12.0	10.6	12.0	
13.1	12.5	13.7	12.3	11.3	12.6	
12.3	10.9	13.1	11.5	10.0	11.6	
12.7	12.0	12.9	11.6	10.0	11.8	
12.5	12.4	14.0	11.3	11.2	12.3	
13.2	12.8	13.3	12.5	10.9	12.5	
12.2	12.0	11.9	11.6	10.4	11.6	
12.5	11.9	12.2	11.8	10.4	11.8	
13.0	12.1	12.6	11.9	10.5	12.0	
12.3	12.2	12.2	11.8	10.6	11.8	
12.3	11.7	12.3	12.4	10.2	11.8	
13.0	11.9	12.7	11.4	10.2	11.8	
12.4	12.4	13.2	11.5	10.3	12.0	
12.3	11.6	12.2	11.7	10.6	11.7	
12.2	12.1	12.8	11.2	10.0	11.7	
12.5	11.1	12.5	11.4	9.8	11.5	
13.0	11.1	13.3	12.2	10.4	12.0	
12.3	10.7	12.1	11.6	9.9	11.3	
12.7	11.9	13.0	12.2	10.5	12.1	
12.6	12.0	13.2	11.6	10.8	12.0	
13.0	13.0	14.1	11.0	10.2	12.3	
12.8	11.9	13.4	11.3	9.4	11.8	
12.6	11.9	13.3	11.7	10.3	12.0	
11.8	11.5	11.9	11.3	10.9	11.5	
13.0	12.6	14.0	11.5	10.1	12.2	
13.4	11.3	13.2	13.1	10.7	12.3	
12.6	11.5	12.1	11.5	11.0	11.7	
13.5	13.2	13.5	12.0	11.6	12.8	
12.5	12.0	12.9	11.7	9.5	11.7	
13.3	13.3	14.7	12.8	11.8	13.2	
11.9	11.9	13.0	11.4	10.6	11.8	
12.7	12.3	13.0	11.8	10.2	12.0	
12.4	11.7	12.9	11.6	9.5	11.6	
12.8	12.2	13.2	12.5	10.3	12.2	
12.7	11.7	13.5	11.5	9.5	11.8	
12.5	12.3	12.5	11.3	10.5	11.8	
13.0	12.6	13.4	11.8	9.8	12.1	
12.6	11.7	13.0	11.7	10.2	11.8	
12.7	12.3	13.4	12.0	10.5	12.2	
13.2	11.8	13.4	12.1	11.2	12.3	
12.9	12.2	12.5	12.1	10.0	11.9	
12.8	12.6	13.6	12.0	10.3	12.3	
12.9	13.1	14.6	13.1	11.2	13.0	
	STATISTICS					
2.3	5.5	4.6	6.9	6.8	5.3	
0.3	0.8	0.7	0.9	0.8	0.3	
12.6	12	13	11.7	10.3	11.9	
13.5	13.3	14.7	13.1	11.8	13.2	
11.8	10.7	11.9	10.2	9.2	11.2	

TABLE: 2008 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
Precipitation Zone=12"-16"

VARIETY NAME (SWH Club in italics)	ALMIRA	ANATONE	CRESTON	LAMONT	AVERAGE YIELD	ALMIRA	ANATONE	CRESTON	LAMONT	AVERAGE TEST WEIGHT	ALMIRA	ANATONE	CRESTON	LAMONT	AVERAGE PROTEIN
	YIELD (BU/A)					TEST WEIGHT (LBS/BU)					PROTEIN (%)				
XERPHA	93	89	122	91	99	59.2	58.0	58.9	58.2	58.6	11.4	11.2	9.1	9.2	10.2
GEORGE	95	82	108	99	96	59.1	54.5	58.0	59.3	57.7	11.6	13.1	8.4	9.1	10.6
ELTAN	87	80	113	90	92	58.8	57.2	58.8	59.6	58.6	11.5	11.0	8.6	9.3	10.1
ORCF-102	91	72	112	90	91	60.0	56.8	58.7	59.9	58.9	10.9	12.0	9.6	9.6	10.5
ORF2267-03	86	82	104	93	91	59.6	57.5	58.6	58.6	58.6	11.5	11.1	8.9	9.7	10.3
ROD	92	72	110	89	91	58.9	54.6	58.2	57.8	57.4	11.3	12.2	9.0	9.7	10.6
ELTAN/TUBBS06	92	71	109	90	90	58.5	55.6	58.0	58.7	57.7	11.7	12.1	8.7	9.5	10.5
ARS960277L	84	71	116	91	90	58.9	55.3	58.7	57.2	57.5	11.1	11.9	8.7	8.5	10.1
LEGION	90	62	111	92	89	57.6	55.5	57.0	57.5	56.9	11.2	12.3	9.0	9.5	10.5
WA008065	87	68	107	93	89	60.9	59.1	59.1	60.8	60.0	12.2	12.3	10.0	10.5	11.3
ELTAN/MADSEN	80	74	112	86	88	58.7	56.8	58.4	59.8	58.4	12.1	11.8	8.8	9.7	10.6
ROD/TUBBS06	84	69	122	77	88	57.6	56.0	58.2	58.1	57.5	11.6	11.8	9.5	9.6	10.6
BRUEHL	92	72	105	82	88	57.7	52.8	57.9	57.8	56.6	12.0	12.5	9.0	10.1	10.9
SALUTE	87	65	107	91	87	58.4	55.1	57.6	57.0	57.0	11.5	11.9	9.7	10.0	10.8
ID02-859	90	85	N/A	85	87	58.7	56.8	N/A	57.4	57.6	11.4	11.1	N/A	9.6	10.7
MADSEN/ROD	86	66	110	84	86	59.0	55.5	58.5	58.7	57.9	11.6	12.2	9.0	9.7	10.6
SKLES	81	66	107	90	86	59.2	56.0	59.3	60.0	58.6	12.7	12.8	9.3	10.3	11.3
FINCH	82	71	100	89	86	59.6	57.3	60.2	60.2	59.3	12.2	11.5	9.2	9.9	10.7
TUBBS 06	89	64	103	86	85	58.3	55.6	57.9	58.0	57.5	11.3	12.5	9.5	9.8	10.8
LAMBERT	83	75	90	92	85	58.9	58.4	58.1	58.5	58.5	12.1	11.6	9.0	9.5	10.6
MADSEN	75	79	109	76	85	59.4	57.2	58.2	59.6	58.6	12.5	11.8	9.7	9.7	10.9
RJAMES	87	62	104	86	85	58.1	52.1	57.3	57.6	56.3	11.6	12.7	8.6	9.6	10.6
WA008064	89	67	101	82	85	59.4	57.3	59.0	58.4	58.5	11.2	12.6	9.8	10.0	10.9
WB 1020M	79	73	105	81	84	59.5	57.2	58.8	59.6	58.8	11.8	11.8	9.1	10.2	10.7
MASAMI	86	60	105	86	84	58.0	54.8	58.4	58.3	57.4	11.4	12.3	9.3	10.0	10.8
ARS970075-3	78	72	102	85	84	59.2	55.1	59.4	58.7	58.1	12.7	12.2	9.9	9.9	11.2
MJ-9	80	67	106	80	83	56.9	54.4	58.5	55.9	56.4	12.2	12.9	9.3	10.1	11.1
AP 700 CL	79	64	103	86	83	58.1	56.7	57.6	58.3	57.7	11.7	11.3	9.8	10.1	10.7
SIMON	80	61	104	85	83	59.5	57.1	59.1	58.9	58.7	11.5	12.4	9.7	10.5	11.0
WA008063	87	64	99	80	83	59.4	58.3	59.2	58.4	58.8	11.7	12.3	10.4	10.2	11.2
9364901A	78	63	106	82	82	60.4	56.2	58.7	59.4	58.7	11.2	12.0	9.5	10.3	10.8
ORCF-103	85	65	104	75	82	59.0	56.6	58.4	59.1	58.3	11.4	11.9	9.3	10.2	10.7
ARS970168-2C	78	72	100	76	82	60.3	57.8	60.0	59.9	59.5	12.3	11.6	9.8	10.0	10.9
CODA	76	69	92	87	81	59.8	59.7	60.6	60.5	60.2	12.2	11.7	9.9	9.5	10.8
WB 456	76	70	92	85	81	62.0	59.7	59.7	61.0	60.6	12.6	13.1	10.9	10.8	11.9
WB-528	79	62	97	85	81	61.2	58.4	59.8	60.2	59.9	11.9	12.5	9.9	10.3	11.2
ARS970278-2	86	66	100	70	80	58.3	56.1	58.2	57.3	57.5	11.3	11.9	8.9	9.8	10.5
BZ6WM04-1066	80	77	84	79	80	61.3	60.9	60.3	60.5	60.8	12.5	12.5	10.5	10.7	11.6
ORCF-101	75	57	102	86	80	59.6	55.0	58.5	58.6	57.9	12.1	13.0	10.5	10.7	11.6
BRUNDAGE 96	80	72	N/A	87	80	58.6	56.3	N/A	57.4	57.4	11.8	12.3	N/A	9.8	11.3
ID990435	73	59	105	82	80	59.2	56.0	58.3	58.5	58.0	12.1	13.1	10.0	10.8	11.5
WA008066	72	63	104	79	79	60.2	55.8	60.4	60.5	59.2	12.4	12.8	8.7	10.3	11.1
WB 523	66	71	101	80	79	59.3	59.0	59.3	60.4	59.5	12.0	12.1	9.8	10.2	11.0
STEPHENS	77	65	92	79	78	57.3	57.3	58.2	57.6	57.6	12.2	11.6	9.7	10.4	11.0
BITTERROOT	68	70	98	71	77	60.8	57.7	58.3	59.8	59.2	11.8	11.8	9.4	10.4	10.9
CASHUP	74	68	86	78	76	60.0	57.2	58.7	60.2	59.0	12.4	12.2	9.2	10.1	11.0
CHUKAR	69	66	N/A	78	71	56.0	55.0	N/A	57.2	56.1	12.6	12.6	N/A	8.6	11.3
CARA	73	61	N/A	77	71	57.3	53.5	N/A	57.1	56.0	12.4	13.0	N/A	9.1	11.5
OR2050910	69	38	97	75	70	58.2	53.0	57.4	56.6	56.3	12.1	13.5	10.0	10.8	11.6
	STATISTICS					STATISTICS					STATISTICS				
CV (%)	11	12	10	10	11	1.7	2.1	0.9	0.6	1.4	5.9	7.8	5.5	5.8	6.5
LSD (0.10)	10	9	13	10	5	1.2	1.4	0.6	0.4	0.5	0.8	1.1	0.6	0.7	0.4
Average	82	68	104	84	84	59.1	56.4	58.7	58.8	58.2	11.9	12.2	9.4	9.9	10.9
Highest	95	89	122	99	99	62.0	60.9	60.6	61.0	60.8	12.7	13.5	10.9	10.8	11.9
Lowest	66	38	84	70	70	56.0	52.1	57.0	55.9	56.0	10.9	11.0	8.4	8.5	10.1

TABLE: 2008 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
Precipitation Zone= <12"

VARIETY NAME (<i>SWH Club in italics</i>)	CONNELL	HARRINGTON	LIND	RITZVILLE	ST. ANDREWS	AVERAGE YIELD
	YIELD (BU/A)					
ELTAN	38	27	25	30	60	36
XERPHA	47	28	26	31	46	36
GEORGE	37	21	26	27	62	35
ROD	43	22	24	32	52	35
FINCH	43	22	18	30	53	33
SKILES	42	24	25	29	45	33
WB 1020M	43	24	25	27	46	33
LEGION	42	26	23	32	41	33
ORCF-103	51	22	20	24	46	33
ELTAN/TUBBS06	37	24	21	26	53	32
ELTAN/MADSEN	38	22	21	29	49	32
ROD/TUBBS06	46	24	20	26	42	32
ORCF-102	49	26	19	25	40	32
TUBBS 06	45	24	21	27	39	31
ID02-859	52	23	18	25	38	31
MADSEN/ROD	43	22	19	28	43	31
BRUEHL	26	22	22	32	52	31
MASAMI	44	19	19	29	44	31
WA008066	39	26	18	25	44	31
LAMBERT	40	22	18	26	46	30
ORF2267-03	45	24	20	25	38	30
WA008065	39	26	20	22	45	30
MADSEN	41	25	20	26	39	30
SALUTE	35	22	21	25	48	30
ARS970168-2C	47	21	20	24	37	30
CHUKAR	42	20	23	29	35	30
AP 700 CL	46	21	22	27	33	30
ARS960277L	37	18	19	24	50	29
CODA	36	25	23	24	39	29
ARS970075-3	38	23	17	24	44	29
BRUNDAGE 96	39	21	17	26	43	29
RJAMES	28	21	16	25	51	28
WB-528	47	20	17	25	31	28
WA008064	39	25	18	26	31	28
CASHUP	33	14	22	26	44	28
ARS970278-2	32	24	21	24	38	28
MJ-9	33	21	19	27	38	27
WB 523	40	16	15	25	39	27
STEPHENS	43	21	17	22	31	27
SIMON	41	16	18	24	31	26
BZ6WM04-1066	34	24	16	23	33	26
WA008063	33	24	18	28	26	26
ID990435	36	20	16	21	35	25
9364901A	42	21	13	17	33	25
CARA	34	17	17	26	32	25
ORCF-101	37	21	16	26	N/A	25
BITTERROOT	33	19	14	20	37	25
WB 456	36	16	16	22	25	23
OR2050910	32	18	16	22	22	22
	STATISTICS					
CV (%)	17	21	20	16	17	18
LSD (0.10)	8	5	5	5	8	3
Average	40	22	19	26	41	30
Highest	52	28	26	32	62	36
Lowest	26	14	13	17	22	22

CONNELL	HARRINGTON	LIND	RITZVILLE	ST. ANDREWS	AVERAGE TEST WEIGHT	
TEST WEIGHT (LBS/BU)						
60.5	57.4	61.2	59.6	58.4	59.4	
61.4	58.1	60.1	58.9	57.0	59.1	
59.2	56.1	59.9	58.7	58.6	58.5	
59.2	56.2	58.8	59.2	55.1	57.7	
60.5	57.0	60.6	60.3	56.1	58.9	
60.2	57.9	59.1	59.4	56.8	58.7	
61.2	58.6	60.1	60.2	59.0	59.8	
59.8	56.0	59.4	58.7	56.8	58.1	
61.3	57.7	60.6	59.3	57.0	59.2	
59.9	56.4	60.5	59.4	57.8	58.8	
61.3	57.6	61.0	59.4	58.0	59.5	
59.4	56.1	59.1	59.2	56.0	58.0	
61.5	59.2	60.6	59.9	58.0	59.8	
59.7	57.0	59.0	58.7	55.5	58.0	
61.4	57.1	59.5	58.3	57.2	58.7	
60.5	57.8	60.1	59.1	57.5	59.0	
59.4	54.0	59.0	58.6	56.7	57.5	
60.4	54.9	59.8	59.3	55.7	58.0	
60.3	56.6	60.4	60.0	58.5	59.2	
60.4	58.1	60.0	59.1	58.0	59.1	
60.6	57.4	59.4	59.6	57.8	59.0	
61.5	58.3	60.0	59.7	59.1	59.7	
60.6	58.3	60.0	59.5	57.0	59.1	
59.0	55.6	57.6	57.8	55.5	57.1	
62.7	58.6	61.9	60.2	58.2	60.3	
59.5	54.5	58.0	57.3	50.4	55.9	
60.1	56.7	60.2	58.9	56.5	58.5	
59.3	56.1	59.7	59.1	58.3	58.5	
60.8	57.7	60.6	60.7	58.7	59.7	
60.7	57.1	60.2	58.8	56.1	58.6	
59.8	56.7	59.8	58.6	57.1	58.4	
58.6	55.6	59.2	58.5	57.7	57.9	
62.4	59.6	61.2	60.7	57.5	60.3	
61.7	58.1	61.4	60.6	56.7	59.7	
61.1	57.0	61.6	60.6	58.1	59.7	
60.4	56.6	59.6	58.4	57.2	58.4	
59.3	53.7	58.4	58.2	56.8	57.3	
60.7	59.0	61.5	60.5	58.7	60.1	
60.4	56.2	59.7	58.9	55.3	58.1	
60.3	56.5	58.8	59.7	54.1	57.9	
61.8	59.7	61.1	59.8	59.1	60.3	
61.8	60.3	61.1	60.3	52.2	59.1	
59.5	57.5	59.6	58.8	56.4	58.4	
60.0	56.7	60.0	59.6	58.0	58.9	
58.5	52.4	58.0	57.2	52.2	55.7	
60.6	57.2	60.1	60.1	N/A	59.5	
60.7	58.0	60.1	59.5	57.8	59.2	
61.7	59.6	60.9	60.8	56.3	59.9	
57.7	55.4	59.1	58.4	52.3	56.6	
	STATISTICS					
1.3	2.0	1.2	1.0	3.2	1.9	
0.9	1.4	0.8	0.7	2.1	0.6	
60.4	57.1	60.0	59.3	56.8	58.7	
62.7	60.3	61.9	60.8	59.1	60.3	
57.7	52.4	57.6	57.2	50.4	55.7	

CONNELL	HARRINGTON	LIND	RITZVILLE	ST. ANDREWS	AVERAGE PROTEIN	
PROTEIN (%)						
13.2	12.8	13.4	11.1	12.9	12.7	
11.7	12.4	13.3	10.0	12.2	11.9	
13.0	13.3	13.4	10.7	11.9	12.5	
12.4	13.2	13.2	10.8	12.3	12.4	
12.3	14.1	14.0	10.8	12.1	12.7	
12.7	13.4	14.6	12.0	13.3	13.2	
12.5	12.9	13.5	11.3	11.6	12.4	
11.8	13.4	13.4	11.1	12.6	12.5	
11.8	13.4	13.9	11.6	12.4	12.6	
12.8	13.4	13.5	11.7	11.5	12.6	
12.6	13.0	13.9	11.7	11.6	12.6	
11.6	12.9	13.5	11.2	11.8	12.2	
12.2	12.9	13.6	11.4	12.2	12.5	
11.8	12.4	13.1	11.5	12.6	12.3	
11.5	13.1	13.4	11.2	11.7	12.2	
12.1	12.9	13.9	10.8	11.8	12.3	
14.5	14.1	13.4	11.2	12.3	13.1	
11.6	14.3	13.7	10.9	12.1	12.5	
12.6	13.1	13.8	11.5	12.7	12.7	
11.6	13.5	13.4	11.9	12.3	12.5	
11.7	13.1	14.0	11.1	12.0	12.4	
12.9	13.2	14.2	12.2	13.2	13.1	
13.1	13.1	13.9	11.2	13.0	12.9	
11.9	13.0	13.8	11.1	12.3	12.4	
11.6	13.0	13.0	11.5	12.6	12.3	
12.1	13.2	12.9	10.9	12.6	12.3	
12.1	14.0	13.6	11.8	12.8	12.9	
11.6	13.1	13.9	11.5	12.6	12.5	
13.1	13.8	14.1	11.7	13.9	13.3	
12.6	13.4	13.9	12.0	12.6	12.9	
12.5	13.5	13.5	11.7	11.9	12.6	
13.6	12.4	13.3	10.6	11.2	12.2	
11.6	12.7	14.7	12.2	12.6	12.8	
11.8	13.3	14.8	12.1	12.8	13.0	
13.0	13.2	13.4	11.2	12.3	12.6	
13.4	12.5	13.6	11.2	12.8	12.7	
12.4	13.4	14.9	11.3	12.7	12.9	
12.5	12.8	14.3	11.9	12.6	12.8	
12.3	13.8	13.7	12.3	12.3	12.9	
12.2	14.0	14.5	11.8	12.8	13.1	
12.5	13.1	14.7	12.6	13.0	13.2	
12.6	12.8	14.5	12.2	13.0	13.0	
12.5	12.7	13.3	12.1	12.4	12.6	
12.4	12.8	14.0	12.0	12.1	12.7	
12.7	14.3	13.3	11.0	13.0	12.9	
12.6	14.4	14.2	12.1	N/A	13.3	
12.6	13.5	14.4	11.7	12.5	12.9	
13.8	14.8	15.5	12.9	13.2	14.0	
13.3	13.9	13.8	12.4	12.9	13.3	
	STATISTICS					
7.0	6.9	3.5	5.0	5.7	5.8	
1.0	1.1	0.6	0.7	0.8	0.4	
12.4	13.3	13.8	11.5	12.5	12.7	
14.5	14.8	15.5	12.9	13.9	14.0	
11.5	12.4	12.9	10.0	11.2	11.9	

TABLE: 2008 WSU HARD WINTER WHEAT TRIAL SUMMARY
Precipitation Zone= >16"

VARIETY NAME	DAYTON	PULLMAN	REARDAN	WALLA WALLA	AVERAGE YIELD	DAYTON	PULLMAN	REARDAN	WALLA WALLA	AVERAGE TEST WEIGHT	DAYTON	PULLMAN	REARDAN	WALLA WALLA	AVERAGE PROTEIN
	YIELD (BU/A)					TEST WEIGHT (LBS/BU)					PROTEIN (%)				
Hard Red Winter															
WA008067	110	160	88	127	121	60.1	58.0	59.6	60.3	59.5	12.9	12.8	12.3	13.1	12.8
ACS 52025	121	152	78	126	119	59.6	57.5	60.2	61.0	59.6	12.7	13.0	13.5	12.3	12.9
IDO621	105	139	94	133	118	61.3	59.6	59.1	60.6	60.2	12.4	13.7	12.5	12.8	12.9
ML9W05-2506	105	150	71	140	116	61.3	58.6	60.4	63.0	60.8	12.6	13.4	13.7	12.6	13.1
BOUNDARY	94	142	90	136	116	59.9	58.7	60.0	60.6	59.8	12.8	13.2	13.0	12.2	12.8
WA008068	101	148	81	128	115	60.9	59.5	60.4	62.2	60.8	14.1	13.3	13.7	13.7	13.7
BC002-2	105	142	82	118	111	60.6	54.1	60.3	61.4	59.1	13.8	12.2	14.9	13.6	13.6
BAUERMEISTER	99	149	74	117	110	59.0	59.0	59.8	58.9	59.2	12.8	12.8	12.6	13.0	12.8
WA008023	97	143	72	127	110	57.4	57.9	56.1	60.0	57.9	13.1	13.0	13.3	12.6	13.0
BZ9W02-2032	93	139	83	119	109	59.1	57.7	58.8	60.1	58.9	13.1	13.5	13.5	12.7	13.2
W98-344	104	131	66	134	109	59.7	55.2	61.2	61.5	59.4	12.8	12.2	14.3	12.5	13.0
AGRIPRO PALADIN	108	121	71	132	108	61.6	57.7	60.6	62.3	60.6	12.8	12.9	14.1	12.8	13.2
NORWEST 553	107	120	78	124	107	60.9	57.1	61.1	61.7	60.2	12.6	12.0	14.0	13.4	13.0
DECLO	100	110	86	127	106	61.4	55.5	60.6	61.3	59.7	13.3	12.0	13.1	13.4	13.0
DH99-37-100	87	138	79	119	106	59.1	56.1	61.1	61.8	59.5	13.1	12.5	11.9	12.8	12.6
WA008069	92	130	76	123	105	60.1	55.4	59.6	60.9	59.0	12.4	11.7	12.6	11.9	12.2
TX97F4-33-1B	103	133	67	113	104	59.7	57.9	60.4	62.1	60.0	12.5	12.3	14.1	12.1	12.8
WA008022	91	132	68	107	99	58.4	55.6	58.9	59.7	58.2	12.9	12.3	12.7	13.3	12.8
HATTON	84	139	68	104	99	62.9	56.4	61.9	62.8	61.0	12.9	12.0	12.8	13.0	12.7
EDDY	95	90	69	134	97	62.2	55.6	59.7	63.0	60.1	12.7	11.7	13.8	12.8	12.8
FINLEY	88	132	72	90	96	61.1	55.4	61.2	61.7	59.9	13.2	12.8	13.3	13.3	13.2
FARNUM	84	107	82	98	93	58.5	59.3	57.2	59.5	58.6	14.3	12.8	13.1	13.9	13.5
WA008060	85	102	80	104	93	58.9	57.3	57.7	59.7	58.4	14.2	12.6	12.9	13.8	13.4
WA008061	76	101	68	86	83	60.0	54.2	60.5	60.7	58.9	14.4	11.5	14.2	14.6	13.7
Hard White Winter															
MDM	101	137	85	113	109	59.9	60.1	60.4	59.5	60.0	12.4	12.8	12.3	12.6	12.5
NUDAKOTA	114	127	67	115	105	60.5	57.0	58.9	60.8	59.3	12.0	11.9	13.9	12.5	12.6
PALOMINO	104	129	60	121	103	61.0	55.3	59.0	62.0	59.3	13.2	12.4	14.9	13.0	13.4
WA008070	87	134	71	113	101	59.6	58.2	58.9	61.0	59.4	13.1	11.7	12.5	13.1	12.6
UI DARWIN	88	141	64	110	101	62.2	55.8	61.4	61.8	60.3	12.9	11.5	13.7	12.7	12.7
Soft White Common															
ELTAN (Check)	105.1	150.6	76.2	120.4	113.1	59.6	55.1	59.7	59.5	58.5	12.5	11.3	11.5	12.2	11.9
	STATISTICS					STATISTICS					STATISTICS				
CV (%)	7	8	12	9	9	0.9	1.5	1.3	1.3	1.2	2.1	4.0	2.6	3.1	3
LSD (0.10)	8	12	11	12	5	0.6	1.0	0.9	0.9	0.4	0.3	0.6	0.4	0.5	0.2
Average	98	132	76	119	106	60.2	57.0	59.8	61.1	59.5	13.0	12.5	13.3	12.9	12.9
Highest	121	160	94	140	121	62.9	60.1	61.9	63.0	61	14.4	13.7	14.9	14.6	13.7
Lowest	76	90	60	86	83	57.4	54.1	56.1	58.9	57.9	12.0	11.3	11.5	11.9	11.9

TABLE: 2008 WSU HARD WINTER WHEAT TRIAL SUMMARY
Precipitation Zone=12"-16"

VARIETY NAME	YIELD (BU/A)			TW (LBS/BU)			PROTEIN (%)		
	ALMIRA	LAMONT	AVERAGE YIELD	ALMIRA	LAMONT	AVERAGE TEST WEIGHT	ALMIRA	LAMONT	AVERAGE PROTEIN
Hard Red Winter	YIELD (BU/A)			TW (LBS/BU)			PROTEIN (%)		
FINLEY	80	94	87	61.1	63.0	62.1	12.1	9.6	10.9
ACS 52025	91	82	87	61.5	61.1	61.3	11.7	10.3	11.0
WA008067	85	87	86	59.2	59.8	59.5	11.5	9.6	10.6
IDO621	99	70	84	61.7	61.4	61.6	11.5	10.7	11.1
BAUERMEISTER	85	84	84	59.8	60.6	60.2	12.2	10.2	11.2
BOUNDARY	82	85	84	60.0	60.5	60.3	12.0	10.5	11.3
FARNUM	81	84	83	58.0	60.1	59.1	12.6	10.6	11.6
BC002-2	87	78	82	60.9	61.3	61.1	12.7	11.7	12.2
WA008022	81	82	82	58.6	59.6	59.1	11.7	10.2	11.0
WA008060	87	76	81	59.6	60.3	60.0	11.3	10.9	11.1
TX97F4-33-1B	86	76	81	62.2	61.4	61.8	11.3	9.9	10.6
WA008023	74	86	80	58.4	59.3	58.9	12.6	10.3	11.5
EDDY	82	76	79	62.4	62.3	62.4	11.8	10.9	11.4
WA008068	74	83	79	61.2	62.1	61.7	12.1	10.8	11.5
HATTON	83	73	78	63.2	63.6	63.4	11.6	10.5	11.1
DH99-37-100	77	76	77	61.3	61.4	61.4	11.4	10.7	11.1
ML9W05-2506	72	79	76	61.6	62.8	62.2	12.6	10.9	11.8
AGRIPRO PALADIN	74	75	75	61.9	61.9	61.9	12.8	11.4	12.1
BZ9W02-2032	72	76	74	60.9	60.7	60.8	12.1	11.0	11.6
WA008061	73	74	73	60.7	61.0	60.9	13.0	11.2	12.1
NORWEST 553	68	78	73	60.9	60.3	60.6	12.9	10.9	11.9
W98-344	73	70	72	60.3	61.0	60.7	11.9	10.4	11.2
WA008069	70	73	71	59.4	59.9	59.7	11.6	10.4	11.0
DECLO	72	66	69	60.8	61.8	61.3	13.0	11.7	12.4
Hard White Winter									
MDM	93	93	93	60.6	60.8	60.7	11.2	9.2	10.2
NUDAKOTA	83	73	78	60.7	60.4	60.6	11.2	10.7	11.0
PALOMINO	77	73	75	60.9	61.3	61.1	12.8	11.5	12.2
UI DARWIN	76	71	74	62.7	63.0	62.9	11.7	10.6	11.2
WA008070	71	76	74	60.3	60.8	60.6	11.9	10.2	11.1
Soft White Common									
ELTAN (Check)	87	91	89	59.7	60.2	60.0	11.5	10.1	10.8
	STATISTICS			STATISTICS			STATISTICS		
CV (%)	12	10	11	1.4	0.8	1.1	4.4	4.5	4.4
LSD (0.10)	14	9	8	1.2	0.5	0.6	0.7	0.6	0.4
Average	80	79	79	60.7	61.1	60.9	12.0	10.6	11.3
Highest	99	94	93	63.2	63.6	63.4	13.0	11.7	12.4
Lowest	68	66	69	58.0	59.3	58.9	11.2	9.2	10.2

TABLE: 2008 WSU HARD WINTER WHEAT TRIAL SUMMARY
Precipitation Zone= <12"

VARIETY NAME	CONNELL	HORSE HEAVEN	LIND	RITZVILLE	ST. ANDREWS	AVERAGE YIELD	CONNELL	HORSE HEAVEN	LIND	RITZVILLE	ST. ANDREWS	AVERAGE TEST WEIGHT	CONNELL	HORSE HEAVEN	LIND	RITZVILLE	ST. ANDREWS	AVERAGE PROTEIN
	YIELD (BU/A)						TEST WEIGHT (LBS/BU)						PROTEIN(%)					
Hard Red Winter																		
IDO621	45	24	21	27	61	36	60.6	59.8	61.8	60.9	59.9	60.6	12.1	13.7	13.5	12.1	12.1	12.7
BOUNDARY	38	19	22	31	60	34	60.7	57.1	60.9	60.6	59.2	59.7	12.3	14.5	13.5	12.2	12.1	12.9
FARNUM	34	25	24	30	55	34	59.6	55.9	59.7	59.3	57.6	58.4	13.0	14.3	13.8	11.8	12.9	13.2
BAJERMEISTER	37	22	21	32	54	33	60.2	55.4	61.4	60.5	55.0	58.5	12.8	14.2	13.3	11.6	11.6	12.7
WA008060	35	23	21	34	49	32	60.3	56.6	60.1	59.2	57.3	58.7	12.0	14.2	13.6	11.1	12.5	12.7
WA008068	44	22	21	30	44	32	62.9	59.3	62.3	61.8	56.9	60.6	12.7	14.5	14.5	12.2	13.1	13.4
WA008067	43	22	23	31	40	32	61.6	57.9	61.0	59.7	57.5	59.5	11.5	13.8	13.1	11.4	12.0	12.4
FINLEY	36	21	23	31	48	32	63.4	59.4	62.7	62.7	60.1	61.7	12.3	15.5	13.9	11.8	12.7	13.2
WA008022	34	23	22	34	42	31	61.3	57.9	61.2	59.9	57.7	59.6	12.8	13.7	13.3	11.2	12.0	12.6
WA008023	42	16	18	31	46	31	60.0	54.9	59.8	59.2	57.1	58.2	11.8	14.2	13.8	11.5	12.6	12.8
HATTON	40	21	23	28	40	30	64.6	62.2	63.9	63.3	58.4	62.5	11.7	14.1	13.6	11.9	12.9	12.8
AGRIPROPALADIN	42	17	19	32	42	30	63.5	61.4	63.0	63.2	60.4	62.3	12.7	14.5	14.5	12.4	13.6	13.5
BC002-2	40	20	17	28	42	30	62.2	59.5	62.2	61.4	57.3	60.5	13.2	15.0	15.0	12.6	13.3	13.8
WA008061	34	20	17	26	48	29	63.1	60.0	62.1	61.9	60.3	61.5	12.6	15.4	15.2	12.9	12.9	13.8
TX97F4-33-1B	47	20	16	25	37	29	63.2	62.1	64.1	62.0	61.9	62.7	11.3	14.0	13.8	12.6	12.7	12.9
DH99-37-100	32	24	18	24	44	28	62.8	60.0	62.9	61.7	60.8	61.6	11.6	13.4	13.2	11.3	12.0	12.3
W98-344	43	20	17	23	38	28	63.3	59.2	62.8	61.1	58.0	60.9	11.9	14.6	14.7	12.7	13.6	13.5
NORWEST 553	49	18	16	27	29	28	63.7	60.0	62.7	61.7	50.8	59.8	11.8	14.8	14.5	11.8	12.6	13.1
ACS 52025	35	20	16	25	44	28	62.3	60.4	61.5	61.1	57.7	60.6	13.1	14.3	13.8	11.9	13.0	13.2
ML9W05-2506	36	21	18	28	35	28	63.2	60.6	63.5	62.2	59.7	61.8	12.7	14.6	14.0	12.1	13.5	13.4
EZ9W02-2032	37	21	19	24	37	28	62.8	61.8	62.5	61.5	58.5	61.4	13.5	14.8	14.3	12.8	13.8	13.8
WA008069	33	17	21	30	31	26	62.1	57.7	61.4	60.2	53.4	59.0	12.7	14.1	13.3	11.6	12.8	12.9
EDDY	37	17	15	27	35	26	63.2	60.2	63.0	62.0	59.7	61.6	12.9	14.8	14.9	12.5	14.1	13.8
DECLO	36	18	16	21	25	23	64.1	60.9	62.8	62.5	52.4	60.5	13.3	15.7	15.3	13.2	12.8	14.1
Hard White Winter																		
MDM	30	23	23	31	60	33	60.5	58.4	62.0	60.3	59.0	60.0	12.5	13.7	12.9	11.2	11.4	12.3
WA008070	40	21	18	33	44	31	61.1	58.2	62.2	61.1	57.6	60.0	11.3	14.0	13.6	10.1	11.8	12.2
PALOMINO	42	21	22	28	35	30	62.5	60.6	62.5	61.4	59.7	61.3	11.8	14.3	14.0	13.0	13.2	13.3
NUDAKOTA	33	20	15	25	43	27	62.4	60.6	62.4	61.2	60.0	61.3	11.6	14.1	13.6	11.7	13.0	12.8
UI DARWIN	36	19	17	23	36	26	63.1	61.4	62.4	63.0	60.7	62.1	12.4	14.2	13.7	12.2	13.0	13.1
Soft White Common																		
ELTAN (Check)	42	24	26	29	55	35	60.7	58.7	62.1	60.0	58.4	60.0	12.3	13.5	12.4	10.6	10.8	11.9
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	20	15	20	16	16	18	1.1	—	0.6	0.7	3.8	2.5	6.1	4.2	2.8	6.4	4.6	4.9
LSD (0.10)	9	4	5	5	8	3	0.8	—	0.5	0.5	2.6	1.0	0.9	0.7	0.5	0.9	0.7	0.3
Average	38	21	20	28	43	30	62.2	59.3	62.1	61.2	58.1	60.6	12.3	14.4	13.9	11.9	12.7	13.0
Highest	49	25	26	34	61	36	64.6	62.2	64.1	63.3	61.9	62.7	13.5	15.7	15.3	13.2	14.1	14.1
Lowest	30	16	15	21	25	23	59.6	54.9	59.7	59.2	50.8	58.2	11.3	13.4	12.4	10.1	10.8	11.9

TABLE: 2008 WSU SOFT WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= >20"

VARIETY NAME (SWH Club in italics)	YIELD (BU/A)			TW (LBS/BU)			PROTEIN (%)		
	FARMINGTON	PULLMAN	AVERAGE YIELD	FARMINGTON	PULLMAN	AVERAGE TEST WEIGHT	FARMINGTON	PULLMAN	AVERAGE PROTEIN
WA008090	65	70	67	60.2	60.3	60.3	10.2	10.4	10.3
<i>EDEN</i>	65	69	67	59.1	60.9	60.0	10.6	10.1	10.4
WAKANZ	58	75	67	58.5	59.1	58.8	11.5	11.2	11.4
NICK	63	68	66	60.3	59.6	60.0	11.0	10.9	11.0
ALPOWA	59	71	65	59.9	59.4	59.7	10.9	11.3	11.1
WA008039	61	70	65	59.6	59.3	59.5	10.7	10.8	10.8
WA008089	60	69	65	60.3	61.6	61.0	10.2	10.3	10.3
LOUISE	60	69	65	58.6	59.5	59.1	10.8	10.7	10.8
<i>WA008047</i>	59	69	64	60.4	61.9	61.2	11.1	10.5	10.8
WA008059	61	65	63	60.3	60.7	60.5	11.7	12.0	11.9
ZAK	62	63	62	59.2	60.0	59.6	11.1	11.5	11.3
WA008058	60	64	62	60.8	62.1	61.5	11.9	11.7	11.8
WHIT	57	65	61	59.6	58.7	59.2	11.1	11.1	11.1
BZ604-026	54	64	59	60.8	59.2	60.0	11.4	10.9	11.2
WA008046	59	57	58	59.0	58.1	58.6	11.1	11.3	11.2
WA008042	52	63	57	60.0	59.6	59.8	11.5	11.3	11.4
<i>WA008049</i>	47	66	57	60.3	60.4	60.4	12.1	11.2	11.7
<i>WA008082</i>	55	58	56	59.8	60.0	59.9	11.9	12.0	12.0
WA008041	53	60	56	57.9	58.2	58.1	11.4	11.2	11.3
ALTURAS	51	59	55	58.9	58.7	58.8	10.9	9.9	10.4
UI CATALDO	49	59	54	58.5	58.1	58.3	11.4	11.1	11.3
	STATISTICS			STATISTICS			STATISTICS		
CV (%)	7	4	6	1.2	1.3	1.3	3.0	5.2	4.3
LSD (0.10)	6	4	3	1.0	1.0	0.7	0.5	0.8	0.5
Average	58	65	61	59.6	59.8	59.7	11.2	11.0	11.1
Highest	65	75	68	60.8	62.1	61.5	12.1	12.0	12.0
Lowest	47	57	54	57.9	58.1	58.1	10.2	9.9	10.3

TABLE: 2008 WSU SOFT WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= 16"-20"

VARIETY NAME (SWH Club in italics)	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE YIELD	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE TEST WEIGHT	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE PROTEIN
	YIELD (BU/A)						TEST WEIGHT (LBS/BU)						PROTEIN (%)					
WAKANZ	61	58	43	68	48	56	55.3	60.7	60.0	59.0	59.6	58.9	12.2	10.8	10.4	11.6	12.2	11.4
ZAK	57	52	41	66	52	54	56.6	61.0	61.2	58.0	60.5	59.5	12.6	11.1	10.9	12.2	12.6	11.9
WHIT	62	57	37	64	43	53	56.1	60.1	61.0	57.3	60.2	58.9	12.0	10.7	11.0	11.8	12.6	11.6
LOUISE	61	56	42	56	47	52	56.7	60.4	61.7	59.5	59.5	59.6	12.0	10.3	10.0	11.2	11.8	11.1
WA008090	64	59	35	53	48	52	58.6	60.8	61.7	59.3	60.6	60.2	11.6	9.9	10.3	11.4	11.9	11.0
ALPOWA	57	54	41	64	42	51	57.1	62.2	61.8	58.6	61.3	60.2	11.6	10.1	10.9	11.3	12.2	11.2
WA008041	58	53	41	59	46	51	55.5	60.3	60.1	57.5	59.7	58.6	11.9	10.6	10.9	12.2	12.4	11.6
NICK	59	54	36	51	47	49	57.4	60.6	61.2	59.3	60.3	59.8	12.1	11.0	11.1	12.6	13.0	12.0
WA008089	57	54	42	45	46	49	58.6	61.2	62.5	60.2	61.0	60.7	11.5	10.0	9.7	11.5	11.3	10.8
<i>ILYN</i>	55	54	31	60	42	48	58.9	61.8	62.2	60.1	61.7	60.9	11.0	10.3	11.7	11.5	11.8	11.3
WA008046	50	51	36	60	42	48	56.1	60.2	60.6	57.8	59.5	58.8	12.2	12.0	11.0	12.2	12.4	12.0
WA008059	55	52	33	57	43	48	57.2	62.7	61.2	57.7	60.3	59.8	12.9	12.5	12.0	13.1	13.6	12.8
WA008039	54	52	37	49	44	47	57.0	61.9	61.6	57.9	61.2	59.9	11.5	11.0	10.5	11.8	11.7	11.3
WA008042	54	49	34	50	47	47	57.6	61.5	61.4	58.8	60.3	59.9	12.5	11.0	10.7	12.3	12.6	11.8
BZ604-026	57	52	33	46	45	47	57.9	62.0	61.6	58.1	61.3	60.2	12.1	11.1	11.9	12.2	13.0	12.1
<i>WA008047</i>	59	56	31	42	41	46	58.5	62.1	62.2	59.3	61.3	60.7	11.8	10.3	10.4	12.3	12.8	11.5
ALTURAS	52	54	34	45	39	44	56.8	60.2	60.0	57.6	59.7	58.9	11.4	10.7	10.7	11.3	11.5	11.1
WA008058	54	47	33	44	38	43	57.5	62.9	61.7	58.1	60.5	60.1	12.7	11.7	11.4	13.1	13.7	12.5
UI CATALDO	46	50	26	42	38	41	55.8	60.1	60.0	57.4	59.8	58.6	12.2	11.1	11.2	11.3	12.4	11.6
<i>WA008082</i>	49	40	24	46	32	38	57.9	61.4	61.0	58.6	59.9	59.8	12.8	12.3	12.4	12.4	13.6	12.7
<i>WA008049</i>	44	40	26	32	29	34	56.4	60.4	60.4	57.3	58.4	58.6	12.5	11.4	11.6	13.0	13.5	12.4
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	5	5	9	14	9	9	0.4	0.7	0.8	1.5	0.7	0.9	1.1	4.2	2.5	4.5	1.7	3.1
LSD (0.10)	4	3	4	10	5	3	0.3	0.6	0.7	1.2	0.6	0.3	0.2	0.6	0.4	0.8	0.3	0.2
Average	55	52	35	52	43	47	57.1	61.2	61.2	58.5	60.3	59.7	12.1	11.0	11.0	12.0	12.5	11.7
Highest	64	59	43	68	52	56	58.9	62.9	62.5	60.2	61.7	60.9	12.9	12.5	12.4	13.1	13.7	12.8
Lowest	44	40	24	32	29	34	55.3	60.1	60.0	57.3	58.4	58.6	11.0	9.9	9.7	11.2	11.3	10.8

TABLE: 2008 WSU SOFT WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= 12"-16"

VARIETY NAME (SWH Club in italics)	ALMIRA	ENDICOTT	LAMONT	AVERAGE YIELD	ALMIRA	ENDICOTT	LAMONT	AVERAGE TEST WEIGHT	ALMIRA	ENDICOTT	LAMONT	AVERAGE PROTEIN
	YIELD (BU/A)				TW (LBS/BU)				PROTEIN (%)			
WA008090	57	68	26	51	58.9	62.5	58.7	60.0	10.8	12.4	11.3	11.5
WHIT	59	62	29	50	59.8	60.9	57.3	59.3	11.1	12.8	12.0	12.0
<i>WA008047</i>	61	63	25	50	61.4	63.2	59.4	61.3	10.8	13.5	12.0	12.1
NICK	60	61	27	49	60.7	61.3	58.3	60.1	11.0	13.2	12.5	12.2
ALPOWA	57	62	27	49	60.3	62.5	58.7	60.5	11.1	13.0	11.4	11.8
LOUISE	56	66	25	49	59.3	61.5	58.4	59.7	11.0	12.3	11.2	11.5
WAKANZ	57	56	31	48	59.5	61.2	56.4	59.0	11.7	12.6	11.4	11.9
WA008039	61	54	28	47	61.9	62.4	58.6	61.0	10.9	12.9	11.8	11.9
ZAK	54	59	29	47	59.8	61.7	57.5	59.7	11.4	13.1	11.9	12.1
WA008089	61	55	25	47	61.2	62.3	59.4	61.0	10.5	12.2	11.6	11.4
BZ604-026	56	62	23	47	61.0	62.6	58.9	60.8	11.3	13.0	11.9	12.1
WA008041	59	53	29	47	60.0	61.3	57.3	59.5	10.9	13.4	12.1	12.1
ALTURAS	54	63	21	46	58.8	62.4	57.7	59.6	11.1	12.2	10.4	11.2
<i>EDEN</i>	57	54	27	46	61.0	62.6	59.6	61.1	10.5	12.5	11.3	11.4
WA008042	56	61	20	46	61.0	63.0	58.3	60.8	11.9	13.3	11.7	12.3
WA008058	54	54	24	44	61.8	62.3	56.9	60.3	12.0	14.1	13.7	13.3
WA008046	51	53	29	44	59.1	61.3	57.5	59.3	11.5	12.9	11.8	12.1
WA008059	51	51	29	44	61.2	61.9	57.5	60.2	12.1	14.4	13.5	13.3
UI CATALDO	52	57	17	42	59.0	61.4	57.8	59.4	11.7	13.1	11.4	12.1
<i>WA008082</i>	47	43	27	39	59.7	61.6	57.6	59.6	12.3	14.5	13.0	13.3
<i>WA008049</i>	57	37	19	38	60.5	61.1	56.8	59.5	11.3	14.9	13.0	13.1
	STATISTICS				STATISTICS				STATISTICS			
CV (%)	6	8	13	8	1.3	0.9	0.9	1.0	3.2	3.2	3.3	3.2
LSD (0.10)	4	6	5	3	1.1	0.8	0.7	0.5	0.5	0.6	0.5	0.3
Average	56	57	26	46	60.3	62.0	58.0	60.1	11.3	13.2	12.0	12.2
Highest	61	68	31	51	61.9	63.2	59.6	61.3	12.3	14.9	13.7	13.3
Lowest	47	37	17	38	58.8	60.9	56.4	59.0	10.5	12.2	10.4	11.2

TABLE: 2008 WSU SOFT WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= <12"

VARIETY NAME (SWH Club in italics)	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE YIELD	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE TEST WEIGHT	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE PROTEIN
	YIELD (BU/A)					TW (LBS/BU)					PROTEIN (%)				
NICK	49	19	27	20	29	59.8	60.5	60.3	60.6	60.3	10.5	14.8	14.1	14.0	13.4
WA008090	36	28	31	19	28	59.8	61.0	59.6	60.4	60.2	10.6	13.8	13.6	13.7	12.9
WA008089	43	18	30	19	27	60.9	59.1	59.9	61.0	60.2	10.0	13.2	12.9	12.4	12.1
ZAK	40	21	31	17	27	59.9	60.1	58.3	59.2	59.4	10.6	14.5	14.1	14.3	13.4
LOUISE	41	17	28	18	26	58.7	58.7	59.1	60.5	59.3	10.0	13.9	13.6	13.3	12.7
WA008042	35	22	26	20	26	60.5	57.9	58.5	60.4	59.3	11.0	15.2	14.2	14.6	13.8
WHIT	44	19	22	17	25	58.7	60.0	59.2	59.6	59.4	10.7	13.8	13.8	13.6	13.0
WA008041	38	19	28	16	25	58.8	60.5	58.8	59.2	59.3	10.6	13.9	13.5	13.7	12.9
<i>WA008047</i>	38	18	28	16	25	61.4	59.8	60.1	60.7	60.5	10.7	14.0	13.5	13.5	12.9
WAKANZ	40	19	25	16	25	58.5	57.6	58.6	59.7	58.6	10.6	14.2	13.8	13.7	13.1
BZ604-026	38	19	25	17	25	60.5	60.8	59.9	61.3	60.6	10.9	14.7	14.1	14.2	13.5
WA008058	37	17	28	16	24	60.5	61.5	60.6	60.3	60.7	11.9	15.2	14.4	14.6	14.0
ALPOWA	37	18	24	18	24	59.8	60.3	60.3	61.5	60.5	10.5	13.5	12.9	13.5	12.6
WA008039	38	17	26	16	24	59.3	60.5	60.2	61.9	60.5	10.5	13.7	13.0	13.6	12.7
WA008046	37	18	24	17	24	58.2	59.7	59.0	59.9	59.2	10.9	14.4	13.7	14.2	13.3
<i>EDEN</i>	38	18	23	15	24	61.1	61.8	60.5	60.7	61.0	10.3	13.0	13.3	12.7	12.3
WA008059	34	17	25	15	23	60.1	60.9	59.8	59.9	60.2	12.1	15.2	14.6	14.9	14.2
ALTURAS	30	19	23	17	22	58.9	60.3	58.1	60.2	59.4	10.3	13.7	12.9	13.3	12.6
UI CATALDO	34	18	19	16	22	59.1	59.8	58.2	58.9	59.0	10.4	14.2	13.6	13.8	13.0
<i>WA008049</i>	35	15	23	14	22	59.7	57.5	57.8	59.2	58.6	11.0	14.5	15.1	14.4	13.8
<i>WA008082</i>	35	13	16	16	20	59.5	59.4	58.8	59.9	59.4	11.4	15.5	14.8	14.5	14.1
STATISTICS						STATISTICS					STATISTICS				
CV (%)	12	16	14	9	14	1.1	1.0	1.2	1.3	1.2	3.1	1.5	2.7	1.6	2.2
LSD (0.10)	7	4	5	2	2	0.9	0.8	1.0	1.1	0.5	0.5	0.3	0.5	0.3	0.2
Average	38	18	25	17	25	59.7	59.9	59.3	60.2	59.8	10.7	14.2	13.8	13.8	13.1
Highest	49	28	31	20	29	61.4	61.8	60.6	61.9	61.0	12.1	15.5	15.1	14.9	14.2
Lowest	30	13	16	14	20	58.2	57.5	57.8	58.9	58.5	10.0	13.0	12.9	12.4	12.1

TABLE: 2008 WSU HARD WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= >20"

VARIETY NAME	FARMINGTON	PULLMAN	AVERAGE YIELD	FARMINGTON	PULLMAN	AVERAGE TEST WEIGHT	FARMINGTON	PULLMAN	AVERAGE PROTEIN
	YIELD (BU/A)			TW (LBS/BU)			PROTEIN (%)		
<i>WA008079</i>	51	74	63	60.4	60.8	60.6	11.8	10.8	11.3
<i>WA008081</i>	53	72	62	59.3	59.5	59.4	12.2	12.3	12.3
<i>WA008078</i>	53	71	62	60.3	59.9	60.1	12.5	11.5	12.0
<i>LOLO</i>	49	74	61	60.7	61.3	61.0	12.9	11.3	12.1
<i>OTIS</i>	53	69	61	60.2	60.9	60.6	12.4	11.1	11.8
WA008080	50	69	59	59.3	58.2	58.8	12.2	12.0	12.1
MACON	51	66	58	59.5	57.9	58.7	11.4	12.0	11.7
CLEAR WHITE	51	65	58	60.5	58.4	59.5	12.2	11.2	11.7
07M SP1	42	71	57	60.5	61.8	61.2	12.3	10.8	11.6
RSI10348W	49	64	56	59.6	59.1	59.4	12.1	11.3	11.7
WA008037	46	64	55	59.3	58.1	58.7	12.8	12.8	12.8
BLANCA GRANDE	45	64	54	61.1	61.4	61.3	13.0	11.3	12.2
STATISTICS			STATISTICS			STATISTICS			
CV (%)	6	3	4	0.9	0.7	0.8	2.8	3.4	3.1
LSD (0.10)	4	3	2	0.8	0.6	0.5	0.5	0.6	0.4
Average	49	69	59	60.1	59.8	60.0	12.3	11.5	11.9
Highest	53	74	63	61.1	61.8	61.3	13.0	12.8	12.8
Lowest	42	64	54	59.3	57.9	58.7	11.4	10.8	11.3

TABLE: 2008 WSU HARD WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= 16"-20"

VARIETY NAME	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE YIELD
	YIELD (BU/A)					
WA008078	60	52	40	62	47	53
OTIS	61	55	39	55	53	52
LOLO	62	57	39	53	49	52
WA008079	61	58	43	45	49	51
WA008080	57	53	36	58	45	50
07MSP1	56	52	42	58	36	49
RS10348W	54	47	32	54	47	47
WA008037	49	47	39	49	40	45
MACON	50	56	31	46	36	44
WA008081	54	49	30	54	28	43
BLANCA GRANDE	54	48	27	43	35	41
CLEAR WHITE	55	50	32	41	25	41
	STATISTICS					
CV (%)	6	6	12	12	9	9
LSD (0.10)	5	5	6	9	5	3
Average	56	52	36	52	41	47
Highest	62	58	43	62	53	53
Lowest	49	47	27	41	25	41

DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE TEST WEIGHT	
TEST WEIGHT (LBS/BU)						
58.1	61.6	61.1	59.4	59.9	60.0	
57.9	62.2	60.9	60.5	60.7	60.4	
58.6	62.8	61.6	60.6	60.2	60.8	
57.6	61.9	61.0	59.0	59.7	59.8	
57.3	59.9	60.4	59.3	59.4	59.3	
58.4	62.0	61.2	59.6	61.3	60.5	
56.4	62.0	61.0	58.8	60.8	59.8	
57.0	59.8	61.0	58.9	60.2	59.4	
56.6	59.9	59.1	58.5	59.9	58.8	
55.8	60.8	59.4	58.4	57.8	58.4	
59.4	63.6	61.1	60.0	61.6	61.1	
57.0	61.3	60.5	58.9	58.0	59.1	
	STATISTICS					
0.5	0.5	0.9	1.2	1.0	0.9	
0.4	0.4	0.8	1.0	0.8	0.3	
57.5	61.5	60.7	59.3	60.0	59.8	
59.4	63.6	61.6	60.6	61.6	61.1	
55.8	59.8	59.1	58.4	57.8	58.4	

DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE PROTEIN	
PROTEIN (%)						
14.1	11.2	13.6	14.2	14.9	13.6	
13.7	11.4	12.5	13.5	13.6	12.9	
13.8	12.1	12.3	13.4	14.2	13.2	
13.1	10.4	12.4	12.7	13.5	12.4	
13.8	11.9	13.5	13.5	14.6	13.5	
13.7	11.7	13.1	13.6	14.7	13.4	
13.8	10.8	14.9	13.4	14.5	13.5	
14.9	12.8	13.8	14.9	15.1	14.3	
13.7	11.1	13.8	12.8	14.1	13.1	
14.4	11.2	15.1	13.5	15.8	14.0	
13.7	11.5	15.3	13.8	14.9	13.8	
13.1	10.2	14.1	12.8	14.2	12.9	
	STATISTICS					
2.1	5.3	3.2	2.5	1.4	3.0	
0.4	0.8	0.6	0.5	0.3	0.2	
13.8	11.4	13.7	13.5	14.5	13.4	
14.9	12.8	15.3	14.9	15.8	14.3	
13.1	10.2	12.3	12.7	13.5	12.4	

TABLE: 2008 WSU HARD WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= 12"-16"

VARIETY NAME	ALMIRA	ENDICOTT	LAMONT	AVERAGE YIELD	ALMIRA	ENDICOTT	LAMONT	AVERAGE TEST WEIGHT	ALMIRA	ENDICOTT	LAMONT	AVERAGE PROTEIN	
	YIELD (BU/A)				TW (LBS/BU)				PROTEIN (%)				
WA008078	59	64	29	51	59.2	62.7	58.8	60.2	12.2	14.0	14.1	13.4	
OTIS	58	64	22	48	60.2	62.7	58.0	60.3	12.2	12.8	13.5	12.8	
WA008080	53	64	23	47	57.9	61.7	57.8	59.1	12.3	14.4	13.5	13.4	
LQLO	54	63	20	46	60.2	62.5	58.4	60.4	12.4	12.8	13.6	12.9	
WA008079	54	59	22	45	59.9	61.5	58.4	59.9	11.4	13.0	13.5	12.6	
RS110348W	52	54	28	45	61.2	62.0	57.5	60.2	11.6	13.4	13.6	12.9	
07MSP1	53	53	27	44	59.9	62.3	58.7	60.3	12.4	13.4	13.7	13.2	
CLEAR WHITE	58	50	25	44	60.4	60.7	58.0	59.7	11.3	12.7	12.9	12.3	
BLANCA GRANDE	54	53	25	44	63.2	63.0	59.1	61.8	12.2	13.8	13.9	13.3	
WA008037	50	57	25	44	59.3	61.4	57.6	59.4	13.1	14.7	14.5	14.1	
MACON	52	58	20	43	58.4	60.8	57.4	58.9	12.0	13.0	13.4	12.8	
WA008081	53	49	25	42	59.5	59.6	56.8	58.6	12.5	14.5	14.4	13.8	
STATISTICS					STATISTICS					STATISTICS			
CV (%)	7	9	16	9	2.1	1.0	1.1	1.5	3.5	5.2	3.2	4.1	
LSD (0.10)	5	7	5	3	1.8	0.9	0.9	0.7	0.6	1.0	0.6	0.4	
Average	54	57	24	45	59.9	61.7	58.0	59.9	12.1	13.5	13.7	13.1	
Highest	59	64	29	51	63.2	63.0	59.1	61.8	13.1	14.7	14.5	14.1	
Lowest	50	49	20	42	57.9	59.6	56.8	58.6	11.3	12.7	12.9	12.3	

TABLE: 2008 WSU HARD WHITE SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= <12"

VARIETY NAME	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE YIELD	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE TEST WEIGHT	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE PROTEIN
	YIELD (BU/A)					TW (LBS/BU)					PROTEIN (%)				
07M SP1	36	23	24	17	25	58.2	62.2	61.1	61.6	60.8	13.4	14.8	15.0	14.9	14.5
OTIS	30	21	31	17	25	58.8	61.1	60.2	60.7	60.2	13.4	15.2	14.2	15.5	14.6
WA008080	36	20	24	18	25	56.6	59.0	58.6	59.6	58.5	13.1	15.6	14.8	15.6	14.8
WA008078	33	23	24	17	24	56.7	60.9	59.6	59.3	59.1	14.0	15.8	15.9	15.7	15.4
LOLO	31	21	26	20	24	57.9	60.6	60.2	60.6	59.8	13.6	15.8	15.1	15.6	15.0
WA008079	28	20	29	17	23	56.2	60.1	58.8	60.7	59.0	13.2	14.8	14.0	14.9	14.2
MACON	31	20	24	18	23	54.6	59.6	59.9	60.1	58.6	13.6	15.2	14.7	15.1	14.7
WA008081	31	20	21	17	22	56.0	59.9	59.2	58.7	58.5	13.9	16.2	16.2	15.9	15.6
CLEAR WHITE	35	18	17	16	22	58.0	61.1	59.9	61.6	60.2	12.9	15.2	15.0	15.0	14.5
RSI10348W	30	20	19	17	22	56.6	61.8	59.7	60.8	59.7	13.8	16.0	15.3	15.4	15.1
WA008037	31	19	21	15	21	55.9	60.1	59.1	60.3	58.9	14.0	16.1	15.7	16.6	15.6
BLANCA GRANDE	35	13	17	15	20	58.2	61.8	61.0	61.8	60.7	13.5	17.0	16.5	15.9	15.7
	STATISTICS					STATISTICS					STATISTICS				
CV (%)	12	11	15	8	12	1.9	0.6	1.3	1.3	1.3	3.1	1.5	1.7	1.9	2.1
LSD (0.10)	5	3	5	2	2	1.5	0.5	1.1	1.1	0.5	0.6	0.3	0.4	0.4	0.2
Average	32	20	23	17	23	57.0	60.7	59.8	60.5	59.5	13.5	15.6	15.2	15.5	15.0
Highest	36	23	31	20	25	58.8	62.2	61.1	61.8	60.8	14.0	17.0	16.5	16.6	15.7
Lowest	28	13	17	15	20	54.6	59.0	58.6	58.7	58.5	12.9	14.8	14.0	14.9	14.2

TABLE: 2008 WSU HARD RED SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= >20"

VARIETY NAME	YIELD (BU/A)			TW (LBS/BU)			PROTEIN (%)		
	FARMINGTON	PULLMAN	AVERAGE YIELD	FARMINGTON	PULLMAN	AVERAGE TEST WEIGHT	FARMINGTON	PULLMAN	AVERAGE PROTEIN
JEDD	59	70	64	60.6	59.4	60.0	13.1	12.0	12.6
TARA 2002	52	72	62	59.5	59.4	59.5	13.9	12.6	13.3
WA008034	49	70	60	58.8	58.5	58.7	12.9	12.1	12.5
WA008026	50	68	59	60.8	61.9	61.4	14.0	12.4	13.2
WA008027	44	72	58	60.6	60.4	60.5	14.2	12.9	13.6
HANK	48	68	58	59.6	57.2	58.4	13.6	13.1	13.4
SCARLET	48	68	58	58.9	58.4	58.7	13.5	12.4	13.0
UI WINCHESTER	45	70	57	59.8	59.5	59.7	13.3	12.1	12.7
WA008033	48	66	57	59.1	59.1	59.1	13.1	11.6	12.4
VOLT	47	66	57	61.1	61.7	61.4	12.6	11.2	11.9
KELSE	44	70	57	60.8	59.8	60.3	14.0	12.8	13.4
WESTBRED 926	47	66	56	59.0	58.1	58.6	14.0	12.6	13.3
BZ901-717	46	66	56	60.6	59.2	59.9	14.2	12.6	13.4
NPBHR70	45	67	56	59.7	57.2	58.5	13.9	13.0	13.5
JEFFERSON	45	67	56	60.7	58.8	59.8	13.8	12.5	13.2
AP-81	45	65	55	62.3	62.1	62.2	13.2	11.0	12.1
WA008077	41	69	55	59.8	58.6	59.2	13.4	12.3	12.9
RSI20035	43	64	53	60.8	59.5	60.2	13.4	10.7	12.1
BUCK PRONTO	40	65	53	59.6	58.5	59.1	14.4	13.5	14.0
HOLLIS	44	62	53	60.0	58.9	59.5	14.4	13.0	13.7
WA008030	42	61	51	60.8	59.0	59.9	13.9	12.5	13.2
STATISTICS			STATISTICS			STATISTICS			
CV (%)	6	3	5	0.7	0.6	0.7	1.9	2.9	2.4
LSD (0.10)	4	3	3	0.6	0.5	0.4	0.4	0.5	0.3
Average	46	67	57	60.1	59.3	59.7	13.7	12.3	13.0
Highest	59	72	65	62.3	62.1	62.2	14.4	13.5	14.0
Lowest	40	61	51	58.8	57.2	58.4	12.6	10.7	11.9

TABLE: 2008 WSU HARD RED SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= 16"-20"

VARIETY NAME	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE YIELD	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE TEST WEIGHT	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE PROTEIN
	YIELD (BU/A)						TEST WEIGHT (LBS/BU)						PROTEIN (%)					
SCARLET	65	50	38	57	51	52	56.6	60.1	60.0	59.1	59.0	59.0	14.9	12.6	15.8	15.3	15.2	14.8
WA008034	64	50	41	58	47	52	55.7	59.6	59.5	58.7	58.8	58.5	14.5	12.7	15.0	14.8	14.9	14.4
WA008033	64	52	36	55	49	51	56.4	60.4	59.1	58.9	59.1	58.8	14.6	13.0	15.5	14.6	15.2	14.6
KELSE	61	54	38	52	47	50	57.8	61.6	60.4	59.7	60.3	60.0	15.9	13.1	16.5	15.3	16.6	15.5
WA008077	59	48	42	51	50	50	56.2	60.2	59.9	58.7	59.1	58.8	14.9	12.6	15.4	15.3	15.5	14.7
JEFFERSON	61	50	34	52	46	49	58.4	60.6	60.7	60.3	59.8	60.0	15.4	13.2	16.6	15.3	16.2	15.3
VOLT	62	52	38	55	33	48	59.1	62.8	60.2	60.6	60.1	60.6	14.1	12.0	14.5	13.7	16.0	14.1
HOLLIS	58	50	32	59	38	47	58.1	60.6	60.4	59.9	59.9	59.8	16.4	12.8	16.2	15.3	16.7	15.5
WA008030	60	48	37	44	46	47	58.9	60.9	61.0	60.3	59.8	60.2	16.0	12.9	16.1	15.1	16.2	15.3
AP-81	60	49	38	52	35	47	59.3	62.9	61.9	60.8	60.9	61.2	15.2	11.2	14.9	14.5	16.1	14.4
HANK	58	48	31	51	42	46	56.7	59.6	59.5	59.0	59.2	58.8	15.3	12.5	16.6	14.1	16.5	15.0
RSI20035	58	51	37	50	34	46	58.1	61.1	60.9	59.6	59.1	59.8	15.0	12.1	15.9	14.8	16.0	14.8
TARA 2002	61	53	22	57	37	46	58.9	61.5	60.1	60.7	59.2	60.1	14.6	12.3	17.7	14.2	17.3	15.2
WA008027	54	49	39	46	40	46	58.8	61.5	60.3	59.8	60.3	60.1	16.6	12.8	16.1	16.0	17.8	15.9
BUCK PRONTO	54	50	33	50	38	45	56.4	60.5	59.6	58.7	59.9	59.0	16.2	13.6	17.3	15.8	16.8	15.9
JEDD	57	51	33	50	34	45	58.0	61.8	61.2	60.8	61.2	60.6	14.8	11.9	15.6	13.8	16.4	14.5
NPBHR70	57	47	28	52	39	45	56.7	59.8	59.7	58.3	59.4	58.8	15.6	13.0	16.9	15.4	16.3	15.4
UI WINCHESTER	54	48	32	47	40	44	57.8	61.0	60.9	59.3	60.1	59.8	14.9	12.2	16.4	14.2	15.9	14.7
BZ901-717	56	49	33	44	38	44	57.4	61.0	60.7	59.3	60.1	59.7	15.8	12.6	17.2	15.4	17.3	15.7
WESTBRED 926	57	47	28	55	33	44	57.0	59.1	59.2	59.1	59.1	58.7	15.8	12.7	17.5	15.2	17.2	15.7
WA008026	55	52	29	48	27	42	60.0	63.3	61.0	60.7	60.5	61.1	15.2	12.1	17.1	15.3	17.5	15.4
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	4	6	8	11	9	8	0.5	1.0	0.7	0.7	0.5	0.7	1.3	4.9	2.3	2.6	1.2	2.6
LSD (0.10)	3	4	4	8	5	2	0.4	0.8	0.5	0.6	0.4	0.2	0.3	0.9	0.5	0.5	0.3	0.2
Average	59	50	34	52	40	47	57.7	61.0	60.3	59.6	59.8	59.7	15.3	12.6	16.2	14.9	16.4	15.1
Highest	65	54	42	59	51	52	60.0	63.3	61.9	60.8	61.2	61.2	16.6	13.6	17.7	16.0	17.8	15.9
Lowest	54	47	22	44	27	42	55.7	59.1	59.1	58.3	58.8	58.5	14.1	11.2	14.5	13.7	14.9	14.1

TABLE: 2008 WSU HARD RED SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= 12"-16"

VARIETY NAME	ALMIRA	ENDICOTT	LAMONT	AVERAGE YIELD	ALMIRA	ENDICOTT	LAMONT	AVERAGE TEST WEIGHT	ALMIRA	ENDICOTT	LAMONT	AVERAGE PROTEIN
	YIELD (BU/A)				TW (LBS/BU)				PROTEIN (%)			
SCARLET	55	61	33	50	57.6	61.3	57.6	58.8	13.3	16.1	14.1	14.5
KELSE	59	60	29	49	61.1	61.3	59.0	60.5	13.2	16.1	15.1	14.8
WA008033	50	62	31	48	58.7	61.7	56.7	59.0	12.7	15.6	14.0	14.1
WA008034	52	58	30	47	57.9	61.5	56.2	58.5	12.6	15.5	13.7	13.9
JEFFERSON	49	60	29	46	59.4	61.0	58.6	59.7	13.0	16.2	14.5	14.6
TARA 2002	53	59	27	46	59.2	60.9	58.7	59.6	12.8	16.1	15.5	14.8
RS120035	56	53	30	46	60.4	61.5	58.5	60.1	12.5	15.4	14.2	14.0
WA008077	54	52	31	46	58.5	60.7	57.5	58.9	12.6	16.0	14.4	14.3
WA008027	58	53	25	46	60.6	61.1	58.7	60.1	13.4	16.7	15.9	15.3
WESTBRED 926	55	50	30	45	59.3	60.8	57.5	59.2	13.0	16.2	15.6	14.9
HANK	50	54	30	45	57.8	59.9	57.8	58.5	12.9	15.9	14.8	14.5
HOLLIS	48	56	29	44	58.5	61.5	58.1	59.4	13.5	16.5	15.6	15.2
WA008030	51	55	27	44	60.1	61.4	59.0	60.2	13.4	15.8	15.5	14.9
JEDD	52	51	28	44	60.3	62.6	59.7	60.9	12.1	15.2	14.3	13.9
UI WINCHESTER	48	55	26	43	60.1	62.0	58.5	60.2	12.9	15.4	14.5	14.3
VOLT	53	50	26	43	62.1	62.9	58.5	61.2	12.4	15.1	14.4	14.0
AP-81	51	48	25	42	62.5	63.1	59.5	61.7	12.3	15.6	14.9	14.3
BZ901-717	57	41	27	42	60.8	60.0	58.7	59.8	13.1	16.5	15.8	15.1
NPBHR70	48	46	27	40	59.0	59.7	58.0	58.9	13.5	16.4	15.5	15.1
BUCK PRONTO	48	45	24	39	59.9	59.9	57.7	59.2	13.9	17.0	15.4	15.4
WA008026	51	42	24	39	61.2	62.2	59.0	60.8	12.9	16.4	15.6	15.0
	STATISTICS				STATISTICS				STATISTICS			
CV (%)	8	9	6	8	0.8	1.0	0.7	0.8	3.1	1.5	2.4	2.3
LSD (0.10)	5	7	2	3	0.6	0.8	0.6	0.4	0.6	0.3	0.5	0.3
Average	52	53	28	44	59.8	61.3	58.3	59.8	13.0	16.0	14.9	14.6
Highest	59	62	33	50	62.5	63.1	59.7	61.7	13.9	17.0	15.9	15.4
Lowest	48	41	24	39	57.6	59.7	56.2	58.5	12.1	15.1	13.7	13.9

TABLE: 2008 WSU HARD RED SPRING WHEAT TRIAL SUMMARY
Precipitation Zone= <12"

VARIETY NAME	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE YIELD	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE TEST WEIGHT	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE PROTEIN
	YIELD (BU/A)					TW (LBS/BU)					PROTEIN (%)				
SCARLET	33	19	32	17	25	56.1	59.0	59.4	59.3	58.5	14.8	17.0	15.5	17.3	16.2
<i>RSI20035</i>	33	19	25	17	23	57.6	60.3	60.5	61.1	59.9	14.4	16.1	15.6	16.7	15.7
AP-81	34	16	26	16	23	59.9	61.8	61.1	63.2	61.5	13.8	17.2	15.6	16.6	15.8
<i>WA008034</i>	29	18	28	17	23	54.8	59.3	58.1	60.4	58.2	14.4	16.2	15.0	16.5	15.5
KELSE	33	19	22	18	23	56.4	60.8	59.7	60.4	59.3	15.3	18.1	17.1	17.8	17.1
<i>WA008077</i>	32	17	27	16	23	55.7	58.5	58.6	58.8	57.9	14.5	16.7	15.8	17.3	16.1
WA008027	31	18	26	16	23	58.7	59.1	59.3	58.9	59.0	15.3	18.0	16.9	18.6	17.2
HANK	32	17	26	15	22	54.7	59.0	59.5	60.7	58.5	14.8	17.4	16.0	17.5	16.4
WA008033	25	18	28	17	22	54.1	60.1	58.1	60.2	58.1	14.6	15.9	15.1	16.7	15.6
HOLLIS	32	17	23	16	22	56.3	60.3	59.5	59.9	59.0	15.3	17.3	16.2	17.3	16.5
JEFFERSON	32	18	22	15	22	57.2	60.8	59.5	60.8	59.6	15.5	17.3	16.0	17.1	16.5
VOLT	30	19	23	15	22	58.0	61.5	61.3	61.6	60.6	14.2	17.2	15.5	16.0	15.7
BZ901-717	35	16	21	14	21	57.5	60.2	60.7	60.4	59.7	14.6	18.7	17.1	18.2	17.2
TARA 2002	30	14	25	15	21	55.9	59.0	59.5	59.5	58.5	15.5	17.9	16.0	17.0	16.6
NPBHR70	31	16	22	15	21	55.1	60.7	59.4	59.1	58.6	15.1	17.6	16.5	17.4	16.7
WA008030	28	16	21	15	20	56.6	60.6	60.0	61.2	59.6	15.3	17.7	16.0	17.6	16.7
<i>JEDD</i>	30	14	23	14	20	57.4	62.4	61.2	61.4	60.6	14.5	16.6	15.5	16.7	15.8
WA008026	30	14	22	13	20	58.7	60.5	60.2	60.5	60.0	14.9	18.0	16.6	17.2	16.7
WESTBRED 926	32	15	19	12	20	55.0	61.0	59.5	59.8	58.8	15.7	17.8	16.7	17.3	16.9
BUCK PRONTO	27	15	21	14	19	54.6	60.3	60.1	60.7	58.9	15.8	18.0	16.8	17.7	17.1
UI WINCHESTER	29	14	18	15	19	55.4	61.6	59.4	61.3	59.4	14.6	17.6	16.3	17.5	16.5
STATISTICS						STATISTICS					STATISTICS				
CV (%)	9	11	11	8	10	1.5	1.2	0.7	0.7	1.1	2.7	3.2	1.9	1.9	2.5
LSD (0.10)	4	3	4	2	2	1.2	1.0	0.6	0.6	0.4	0.5	0.8	0.4	0.5	0.3
Average	31	17	24	15	22	56.5	60.3	59.7	60.4	59.2	14.9	17.4	16.1	17.2	16.4
Highest	35	19	32	18	25	59.9	62.4	61.3	63.2	61.5	15.8	18.7	17.1	18.6	17.2
Lowest	25	14	18	12	19	54.1	58.5	58.1	58.8	57.9	13.8	15.9	15.0	16.0	15.5