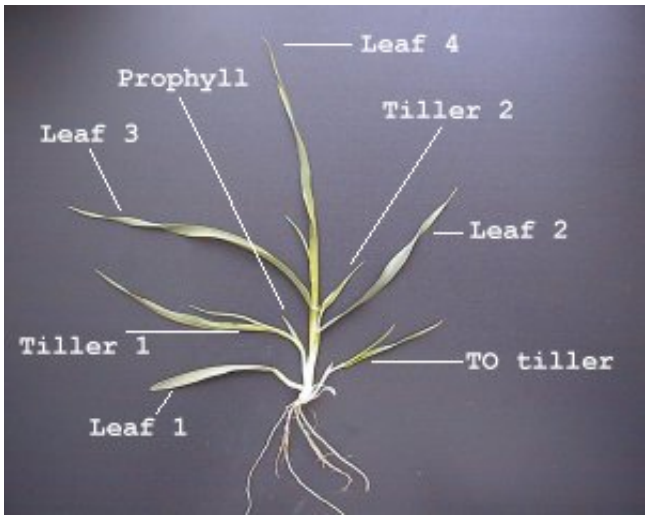
2002 Small Grains Report for Southcentral and Southeastern Idaho

Denise Wedel, Larry Robertson and Katherine O'Brien



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Jim and Brent McCall - (Paul) Rupert
Steve and Dewitt Marshall - Jerome
Kirk Thomson - Castleford
Don Ayers - Soda Springs
Dave Cook - Ririe
Kurt Kandler – Ashton
John Remsberg – Rupert
Marc Thiel – Idaho Falls

UI Extension Educators

Lance Brower
Steve Salisbury
Brian Finnigan
George Hamilton
Steve Harrison
Gale Harding
Matt Schuster
Wayne Jones

Other University of Idaho Employees

Nita Anderson
Misty Pratt
Jeremy Ziebarth
Kristi Copeland
Lura Schroeder
Teri Adamson
Thomas Adamson
Elaine Ledford
Bonnie Grover

Disclaimer Statement

This report contains a summary of research results. These are not to be construed as recommendations for the use of any agricultural chemical that may be mentioned. Pesticide users are responsible for reading the label and following all directions.

2001-2002 Trial Locations

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About the Authors

Denise Wedel is a Scientific Aide at the University of Idaho's Aberdeen Research and Extension Center. Larry Robertson is an Extension Crop Management Specialist at the Aberdeen R&E Center, and Katherine O'Brien is the Lab Manager of the UI's Wheat Quality Laboratory at Aberdeen.

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2001 Small Grains Report for Southcentral and Southeastern Idaho

Denise Wedel, Larry Robertson, and Katherine O'Brien

Introduction

Increases in cereal grain yields result from a combination of genetic improvements in varieties and from improved agronomic practices. Studies have shown that genetic improvements have contributed more than 50 percent of the total improvement in yield over the past 30 or 40 years. The objective of the University of Idaho Small Grain Performance Trials is to provide an unbiased appraisal and evaluation of currently available varieties and advanced experimental lines. This information will assist Idaho growers in comparing and selecting varieties best suited to their particular area and growing conditions.

Varietal development programs strive not only for greater yield potential, but also for improved end-use quality, better disease and insect resistance, and yield stabilization through improved winter hardiness, better straw strength, etc. A more detailed description of variety development, cooperative extension testing and evaluation, and seed production programs is given in the University of Idaho publication titled, "Small Grain Variety Development and Adaptation in Idaho", CIS 976. Bringing a new variety to the market place is a cooperative effort by many individuals.

Varieties are best evaluated by comparing performance over a number of locations and preferably over more than one year. Varietal performance can change in response to both environmental and cultural/management conditions. This report summarizes small grain trials conducted throughout south-central and southeastern Idaho that were harvested in 2001, as well as milling and baking data from trials harvested in 2000.

Test Procedures

Locations

Cereal trials were established at four winter and eight spring locations throughout SC and SE Idaho during the fall of 2000 and the spring of 2001 (see Table 1). The Idaho Falls winter, Ririe spring, Fairfield, and Soda Springs trials were grown under dryland conditions, all other trials were grown under irrigation. The trials at Aberdeen were grown on a UI Research and Extension Center, and the remaining trials were grown in producers' fields and received the same management inputs as the surrounding field.

Agronomic Practices

Seeding rates were set at 1,000,000 seeds per acre for all irrigated locations (800,000 seeds per acre for spring barley) and 700,000 seeds per acre for all dryland locations (600,000 seeds per acre for dryland spring barley). This seeding rate corresponds to approximately 95 and 65 pounds of seed per acre for average sized wheat and barley seed. Row spacing was set at 7 inches for all trials except the Ririe winter trial that had 14 inches between rows. All entries were replicated 3 times at each location in a randomized complete block design. All trials were established and maintained under "grower management" conditions except for the Aberdeen site that was located on the University of Idaho Research and Extension Center. Except for planting, staking, alley maintenance, and harvest operations, each nursery received the same "grower management" or cultural operations as applied to the surrounding commercial wheat or barley field. Fertilizers and pesticides applied are listed in Table 1 for the sites where the information was reported. Planting and harvesting operations by university

personnel were timed to approximately coincide with corresponding cooperator operations.

Description of Data Collected

Each entry at each location was measured for grain yield, test weight, plant height, heading date, and where present, lodging. Yield was calculated for wheat at 60 pounds per bushel, 48 pounds per bushel for barley and 32 pounds per bushel for oats. Test weight is reported in pounds per standard bushel, and plant height is reported in inches from the soil surface to the tip of the heads, awns excluded. Heading date is reported as days from January 1 that 50 percent of the heads emerged from the boot, and lodging is reported as the percent of the plot area that was not standing straight prior to harvest. Spring stand is a visual rating of the total established stand on a 1-9 scale with 1 the poorest and 9 being the best. Emergence is a visual rating of speed of emergence prior to full stand establishment. This was taken at selected locations where dry soil was a factor in emergence.

Due to the time necessary to complete milling and baking evaluations, these test results are not available for the 2000 harvest. Data is given for these characteristics from the 1999 harvest.

Milling and baking tests and plump seed evaluations use standardized testing methods and are described below:

- Flour protein, 14 percent moisture basis: this is the flour protein content, measured on a fixed 14 percent moisture basis. Lower numbers are better for soft wheat; higher numbers are preferred for hard wheat.

- Break flour yield: represents ease of milling or kernel softness; higher numbers are preferred.

- Flour yield: the percent of flour obtained from a sample of wheat; higher percentages are better.

- Whole grain protein percent: protein content of the whole grain, 12 percent moisture basis. Lower percentages are preferred for soft wheat, higher percentages are preferred for hard wheat.

- Hardness value: a measure of kernel hardness; soft wheat should be below 50; hard wheat should be above 50.

- Cookie diameter: diameter of a cookie in centimeters; larger numbers are better for soft wheat.

For hard wheat, additional dough and baking evaluations include the following:

- Bake volume: This is the volume of an experimental loaf of bread measured in cubic centimeters, higher volume preferred.

For barley:

- Plump seed percentage is the percent of a sample that stayed on top of a 6/64 screen after shaking.

- Thin percentage is that percent of a sample that passed through a 5.5/64 screen after shaking.

Statistical Interpretation

Most tables have a least significant difference (LSD) statistic at the bottom of the table. This statistic is given at the 10 percent error level and is an aid in comparing varieties. If the measured values of any two varieties within a table differ by the LSD value or more, they may be considered different with a confidence level of 90 percent. If the measured values are less than the LSD value, the differences may be due to random error rather than real differences. Coefficient of variation (CV

percent) statistic is a general measurement of the precision of each experiment. Lower CV percent values indicate less experimental variation and greater precision. Most tables that do not have the LSD and CV statistic, are averages over locations or years where specific statistical analysis was not run on the combined data or are from data that was obtained from only one replication (ex. quality data). Most tables from individual locations also contain yield data from two previous years. The average, LSD, and CV for these data represent the original data set not just the selected varieties presented in these tables.

Growing Conditions and Factors Affecting Trials

Winter trials were seeded (fall of 2000) into generally good seedbeds at all irrigated locations. Normal stands were obtained, and these trials went into winter in good condition. The dryland location at Ririe was very dry, and the crop emerged from about four inches of soil coverage, and incomplete stands were obtained. Adequate stands were eventually obtained by almost all varieties. The winter was warmer than normal and no winterkill was observed. Spring seeding progressed at about average times across the southern part of the state. Good stands were obtained at all locations. The warm temperatures of the winter continued through early spring. Spring conditions had extremely variable temperatures and higher than normal winds, creating continual stress on developing plants. Summer temperatures were hotter than normal, causing the crop to ripen ahead of average. The season was generally good across the southern Idaho production area. Near ideal harvest conditions lasted through the entire grain harvest. Winter cereals were mostly normal in yield while most spring-seeded cereals were average to slightly below average. Test weights tended to be below average. On dryland where soil moisture was limited, some kernel shriveling occurred.

The Jerome and Rupert winter trials were both very productive and high yields were obtained. Winter barley at Jerome had excessive lodging. The Aberdeen winter trial lacked proper N fertilization, and yields and grain protein content were lower than normal. The Ririe winter and spring trials were stressed for moisture, and low yields were obtained. At all spring locations, very little rainfall occurred after seeding, and, consequently, all non-irrigated locations had low yields. Twin Falls spring location had very high levels of N and lodging occurred in most barley varieties, resulting in lower test weights than normal. Rupert, Aberdeen and Idaho Falls spring locations had good yields in relatively uniform fields. Ashton was very short of soil moisture early in the season, requiring irrigation much earlier than normal. The crop did tiller well and developed normally.

Seasonal average measurements of several plant growth characteristics taken from the variety trials are shown in Table 2 for the period 1991-2001. 2001 yield was somewhat below average for winter wheat and spring wheat but slightly above average for spring barley. 2001 test weight of winter wheat was near average, spring wheat was above average by almost two pounds/bushel, and spring barley was 2 pound/bushel lower than average. Plant height was shorter than average for winter wheat and both spring crops. Heading date was near average for all crops, and lodging was below average for wheat and above average for spring barley.

Varieties Tested

A list of released varieties tested in 2000-2001 is given in Table 3. Included in this table are seed size, number of seeds per pound, and the adjusted seeding rate. Information is also given on the year of release and the releasing agency or company. A short description of new varieties is given in Table 4. Additional information is available from the releasing agency or company.

Table 1. Extension small grain variety trial locations and test conditions, 2001-2002.

County	Nursery Location	Type[1]	Planting Date	Harvest Date	Previous Crop	Fertilizer[2] N-P-K-S (lb\A)	Chemical Name(s)[3]	Chemical Rate(s)[4]
Jerome	Jerome	W-I	10/8/2001	7/30/2002	Potatoes	205-280-1280	Weedone 638	1.5 pt
Twin Falls	Castleford	S-I	4/4/2002	8/12/2002	Beets	117-250-1140-72	Bronate	1 pt
							Express	1/3 oz
Minidoka	Rupert	W-I	10/17/2002	8/6/2002	Potatoes	285-370-920	Bronate	1.5 pt
							Foliar	3 gal/ac
Minidoka	Rupert	S-I	4/11/2002	8/28/2002	Beets	202-249-720-91	Bronate	1.5 pt
							Starane	1/2 pt
Bingham	Aberdeen	W-I	9/26/2001	8/7 & 8/8	Fallow	165-88-480-91	---	---
Bingham	Aberdeen	S-I	4/9/2002	8/14 - 8/16	Fallow	165-88-480-91	---	---
Bonneville	Idaho Falls	S-I	4/24/2002	8/22/2002	Potatoes	164-128-440-40	Bison	1 pt
							Preference	3.2 oz
Jefferson	Ririe	W-D	9/18/2001	7/31/2002	Fallow	168-88-2080	Roundup	14 oz
							Ally	1/10 oz
							Salvo	5 oz
Jefferson	Ririe	S-D	4/24/2002	8/13/2002	Fallow	189-96-800-28	Roundup	14 oz
							Ally	1/10 oz
							Salvo	5 oz
Fremont	Ashton	S-I	5/15/2002	9/3/2002	Potatoes	351-152-533-144	Bronate	1.5 pt
							Achieve	.44 lb/ac
Caribou	Soda Springs	S-D	4/29/2002	8/23/2001	Barley	247-204-1160-36	Tordon	1.25 pt
							2,4-D	0.33 pt

[1]W and S refer to winter and spring cereal nurseries, respectively. D and I refer to dryland and irrigate

[2]Fertilizer values represent nutrients available in soil at planting and any applied fertilize

[3]Use of chemicals and their trade names does not constitute or imply recommendation or endorsement of their u by the Cooperative Extension System or the University of Idaho. Cooperators are responsible for use of pesticides in accordance with labeled uses and at registered rates.

[4]Chemical rates used by cooperators are given in units of commercial product on a per acre basis unless otherwise specifie

Table 2. Average seasonal measurements for selected agonomic characteristics, 2001-2002.

Winter Wheat

YIELD			TEST WEIGHT			PLANT HEIGHT			HEADING DATE			LODGING		
Year	# of Loc.	bu/A	Year	# of Loc.	lb/bu	Year	# of Loc.	in.	Year	# of Loc.	Days fr. Jan.1	Year	# of Loc.	%
1993	3	116.4	1993	3	62.0	1999	3	31	1992	3	151	2001	4	0
1995	3	109.2	1995	3	61.5	1992	4	31	2000	4	154	1999	3	0
2000	4	107.6	2000	4	61.4	2002	4	31	1994	4	157	2002	4	0
1997	4	107.3	1996	4	61.0	1997	4	32	1997	4	159	1995	3	1
1992	4	105.2	1992	4	60.9	2001	4	32	2001	4	160	2000	4	2
1998	4	103.9	2001	4	60.9	2000	4	34	**Avg.**	---	**162**	1991	4	3
Avg.	---	**99.9**	1991	4	60.5	**Avg.**	---	**34**	2002	4	162	1997	4	3
1996	4	99.4	1998	4	60.4	1996	4	35	1998	4	164	1998	4	3
1991	4	94.0	**Avg.**	---	**60.2**	1994	4	35	1996	4	164	1996	4	4
1999	3	93.2	1994	4	59.1	1994	3	35	1995	3	166	**Avg.**	---	**4**
2001	4	88.6	1999	3	59.0	1993	3	36	1993	3	166	1992	4	9
2002	4	88.1	1997	4	58.2	1995	3	36	1991	3	169	1994	4	9
1994	4	86.2	2002	4	57.8	1998	4	38	1999	3	170	1993	3	10

Spring Wheat

YIELD			TEST WEIGHT			PLANT HEIGHT			HEADING DATE			LODGING		
Year	# of Loc.	bu/A	Year	# of Loc.	lb/bu	Year	# of Loc.	in.	Year	# of Loc.	Days fr. Jan.1	Year	# of Loc.	%
1997	6	99.3	2000	6	61.6	2000	6	29	2000	6	171	2000	6	0
1995	6	87.3	2001	7	61.4	2001	7	29	1997	5	173	1992	6	0
1996	6	80.0	1995	6	61.2	2002	7	29	1994	6	174	2002	7	0
2000	6	79.9	1994	6	60.8	1996	5	30	1992	4	174	1994	7	1
1991	6	79.9	2002	7	60.8	1992	6	30	2001	6	176	2001	7	1
1993	7	79.8	1997	6	60.6	1999	7	30	1996	6	179	1995	6	2
2001	7	78.9	**Avg.**	---	**59.5**	1994	6	30	**Avg.**	---	**181**	1991	6	4
Avg.	---	**78.0**	1992	6	59.5	**Avg.**	---	**31**	2002	7	181	1997	6	5
1992	6	74.5	1999	7	59.1	1995	5	32	1998	6	183	**Avg.**	---	**6**
1998	6	73.1	1991	6	58.9	1998	5	33	1995	5	186	1993	7	7
1999	7	70.4	1994	7	58.3	1993	7	34	1999	7	186	1999	7	7
2002	7	67.4	1998	6	57.8	1997	6	34	1991	2	191	1996	6	11
1994	7	65.7	1993	7	54.2	1991	3	35	1993	7	192	1998	6	23

Spring Barley

YIELD			TEST WEIGHT			PLANT HEIGHT			HEADING DATE			LODGING		
Year	# of Loc.	bu/A	Year	# of Loc.	lb/bu	Year	# of Loc.	in.	Year	# of Loc.	Days fr. Jan.1	Year	# of Loc.	%
1997	6	112.3	1995	6	53.0	1999	7	28	1992	6	165	2000	6	2
1993	7	105.5	1996	6	52.4	2000	6	29	2000	6	170	1992	7	12
1992	7	103.2	1992	7	51.3	2001	7	29	1997	5	170	1991	8	13
2001	7	101.4	1994	8	51.3	1996	6	30	1994	6	174	1994	8	14
2000	6	99.3	2000	6	50.9	1992	7	31	1996	6	177	1996	6	18
1996	6	98.8	1997	6	50.5	1991	4	31	2001	6	177	**Avg.**	---	**20**
1995	6	98.6	**Avg.**	---	**50.3**	**Avg.**	---	**31**	2002	7	178	1995	6	20
Avg.	---	**98.1**	2002	7	50.1	2002	7	32	**Avg.**	---	**178**	2002	7	22
2002	7	95.8	1999	7	50.1	1994	6	32	1998	6	182	1997	6	23
1991	8	94.9	1993	7	49.6	1995	5	33	1995	5	183	1999	7	23
1999	7	94.4	1991	8	48.5	1993	7	34	1991	5	184	2001	7	25
1994	8	89.0	2001	7	48.4	1997	6	34	1999	7	186	1998	6	29
1998	6	83.7	1998	6	47.8	1998	6	34	1993	7	193	1993	7	37

Table 3. Released varieties in 2001-2002 with seed size and adjusted seeding rate.

Variety	Exp. No.	1000.0 Kernel Weight (g)	Seeds per Pound	Adjusted Seeding Rate1 (lb/A)	Released	Developer(s)/Distributor of variety
Soft White Winter Wheat						
Albion	GT00123M	43.5	10,437	96	2001	Cenex Harvest States
Beamer	Bz6W93-481	42.0	10,810	93	2000	Western Plant Breeders, Bozeman, MT
Brundage	ID86-14502B	38.0	11,947	84	1997	Idaho AES, USDA
Brundage 96	ID-B-96	39.5	11,494	87	2001	Idaho AES, USDA
CDC Falcon		31.0	14,645	68	2001	Western Plant Breeders, Bozeman, MT
Daws	WA6099	49.0	9,265	108	1976	Washington AES, USDA
Eltan	WA7431	40.0	11,350	88	1990	Washington, Idaho & Oregon AES, USDA
Hubbard	8610420A	47.0	9,660	104	2000	Western Plant Breeders, Bozeman, MT
Kmor	WA7529	38.5	11,792	85	1990	Washington, Idaho & Oregon AES, USDA
Lambert	ID85-153	49.5	9,172	109	1993	Idaho AES, USDA
MacVicar	OR75336	50.5	8,990	111	1992	Oregon & Idaho AES, USDA
Madsen	WA7163	38.5	11,792	85	1988	Washington, Idaho & Oregon AES, USDA
Malcolm	ORCW8113	42.5	10,682	94	1987	Oregon & Idaho AES, USDA
Sprague		37.0	12,270	81	1973	Washington AES, USDA
Stephens		49.5	9,172	109	1977	Oregon AES, USDA
Tubbs	OR939526	49.0	9,265	108	1999	Oregon AES, USDA
Weatherford	OR898120	46.5	9,763	102	1998	Oregon AES, USDA
Westbred 470	Bz6W90-470	50.0	9,080	110	1997	Western Plant Breeders, Bozeman, MT
Hard Red Winter Wheat						
Bonneville	IDO421	41.0	11,073	90	1993	Idaho AES, USDA
Boundary	IDO467	44.0	10,318	97	1997	Idaho AES, USDA
Declo	SDM215-2	39.5	11,494	87	1999	Sunderman Breeding, Twin Falls, ID
DW	ID0513	35.5	12,789	78	2001	Idaho AES, USDA
Garland	UT1706-1	42.0	10,810	93	1992	Utah AES, USDA
Manning	UT89099	40.5	11,210	89	1979	Utah AES, USDA
Neeley	RL4200	43.0	10,558	95	1980	Idaho AES, USDA
Promontory	UT1567-51	40.0	11,350	88	1990	Utah AES, USDA
Residence		54.0	8,407	119	2002	Cenex Harvest States
Semper		52.5	12,270	81	2002	Cenex Harvest States
Survivor		40.5	11,210	89	1990	Idaho AES, USDA
Utah 100	UT1650-150	40.5	11,210	89	1997	Utah AES, USDA
Ute	UT1195-152	38.0	11,947	84	1983	Utah AES, USDA
Weston		44.5	10,202	98	1978	Idaho AES, USDA
Hard White Winter Wheat						
Gary	ID0550	42.0	10,810	93	2001	Idaho AES, USDA
Golden Spike	UT1944-158	37.5	12,107	83	1999	Utah AES, USDA
NuFrontier	GM10001	33.5	13,552	74	2001	General Mills, Great Falls, MT
NuHorizon	GM10002	37.0	12,270	81	2001	General Mills, Great Falls, MT

[1]Adjusted to plant 1 million seeds per acre according to the number of seeds per pound for each variety.

Table 3 (cont'd). Released varieties tested in 2001-2002 with seed size and adjusted seeding rate.

Variety	Exp. No.	1000.0 Kernel Weight (g)	Seeds per Pound	Adjusted Seeding Rate[1] (lb/A)	Released	Developer(s)/Distributor of variety
Soft White Spring Wheat						
Alpowa	WA7677	43.0	10,558	95	1993	Washington, Oregon, & Idaho AES, USDA
Alturas	(ID0526)	37.5	12107	83	2001	Idaho AES, USDA
Challis	Bz692-108	45.5	9,978	100	1999	Western Plant Breeders, Bozeman, MT
Eden	WA7902	31.5	14413	69	2002	Washington AES, USDA
Jubilee	IDO525	35.0	12,971	77	2000	Idaho AES, USDA
Penawawa		42.0	10,810	93	1985	Washington AES, USDA
Treasure		37.5	12,107	83	1986	Idaho AES, USDA
Whitebird	IDO392	35.0	12,971	77	1996	Idaho AES, USDA
Zak	WA7850	38.5	11,792	85	1999	Washington AES, USDA
Hard Red Spring Wheat						
Hank	Bz992-332	53.5	8,486	118	1999	Western Plant Breeders, Bozeman, MT
Iona	IDO492	38.5	11,792	85	1999	Idaho AES, USDA
Jefferson	IDO462	40.5	11,210	89	1997	Idaho AES, USDA
Jerome	IDO566	41.0	11,073	90	2004	Idaho AES, USDA
Rick		40.0	11,350	88	1980	Utah AES, USDA
Saxon		37.0	12,270	81		Agripro Plant Breeders
Scarlet	WA7802	46.5	9,763	102	2000	Washington AES, USDA
Tara	WA7824	46.5	9,763	102	2000	Washington AES, USDA
Westbred 936	PH986-61	48.5	9,361	107	1993	Western Plant Breeders, Bozeman, MT
Zeke	Bz987-331	50.5	8,990	111	1999	Western Plant Breeders, Bozeman, MT
Hard White Spring Wheat						
Blanca Grande		53.0	8566	117	2002	General Mills, Great Falls, MT
Idaho 377s	IDO377s	39.5	11,494	87	1996	Idaho AES, USDA
Klasic		47.0	9,660	104	1982	Northrup-King Co., Minneapolis, MN
Lolo	IDO533	39.0	11,641	86	2000	Idaho AES, USDA
Macon	WA7899	41.0	11073	90	2002	Washington AES, USDA
Plata		35.5	12,789	78	2002	General Mills, Great Falls, MT
Pristine	Bz991-408	56.5	8,035	124	1999	Western Plant Breeders, Bozeman, MT
Winsome	OR4870453	39.0	11,641	86	1999	Oregon AES, USDA
Spring Durum Wheat						
Kronos		55.5	8,180	122	1996	Arizona Plant Breeders
Matt		52.0	8,731	115	2000	Simplot Agrisource, Burley, ID
Utopia		56.0	8,107	123	1997	World Wide Wheat, L.L.C.

[1]Adjusted to plant 1 million seeds per acre according to the number of seeds per pound for each variety.

Table 3 (cont'd). Released varieties tested in 2001-2002 with seed size and adjusted seeding rate.

Variety	Exp. No.	1000.0 Kernel Weight (g)	Seeds per Pound	Adjusted Seeding Rate[1] (lb/A)	Released	Developer(s)/Distributor of variety
Winter Barley						
Boyer		44.0	10,318	97	1975	Washington AES, USDA
Eight-twelve	79Ab812	40.0	11,350	88	1988	Idaho AES, USDA
Mal		41.5	10,940	91	1980	Oregon AES, USDA
Schuyler		36.5	12,438	80	1969	Cornell AES, USDA
Scio		45.0	10,089	99	1979	Oregon AES, USDA
Sprinter		44.0	10,318	97	1987	Western Plant Breeders, Bozeman, MT
Strider	ORW6	46.5	9,763	102	1998	Oregon AES, USDA
Sunstar Pride	SDM204-B	41.5	10,940	91	1995	Sunderman Breeding, Twin Falls, ID
Two-Rowed Spring Barley						
Bancroft	78Ab10274	47.0	9,660	83	1996	Idaho AES, USDA
Baronesse	NS078054	48.5	9,361	85	1992	Western Plant Breeders, Bozeman, MT
Calgary		43.0	10,558	76		Arizona Plant Breeders
Camas		51.5	8,816	91	1999	Idaho AES, USDA
Criton	91Ab3148	51.0	8,902	90	2001	Idaho AES, USDA
Galena	AC84-66-15	44.5	10,202	78	1992	Coors Brewing Co. Inc., Burley, ID
Garnet	86Ab2317	47.5	9,558	84	1996	Idaho AES, USDA
Harrington	WA006783	45.0	10,089	79	1986	University of Saskatchewan
Hector		43.5	10,437	77	1973	Agriculture Canada
Klages		44.0	10,318	78	1972	Idaho AES, USDA
Merit	2B91-4947	41.5	10,940	73	1997	Busch Agricultural Resources, Inc., Ft. Collins, CO
Moravian 14		42.5	10,682	75		Coors Brewing Co. Inc., Burley, ID
Moravian 37	C37	48.0	10,437	77	2001	Coors Brewing Co. Inc., Burley, ID
Targhee	78Ab10099B	47.0	9,660	83	1991	Idaho AES, USDA
Valier	MTLB30	44.0	10,318	78	1999	Montana AES, USDA
Xena	Bz594-19	53.0	8,566	93	1999	Western Plant Breeders, Bozeman, MT
Six-Rowed Spring Barley						
Brigham	UT002120	39.0	11,641	69	1999	Utah AES, USDA
Century	UT1705L	43.5	10,437	77	1996	Utah AES, USDA
Colter	79Ab10719-66LC	38.5	11,792	68	1991	Idaho AES, USDA
Creel	93Ab13449	38.5	11792	68	2002	Idaho AES, USDA
Foster	ND11055	32.0	14,188	56	1995	North Dakota AES, USDA
Legacy	6B93-2978	35.0	12,971	62	2000	Busch Agricultural Resources, Inc., Ft. Collins, CO
Millennium	UT004603	36.5	12,438	64	1999	Utah AES, USDA
Morex		43.0	10,558	76	1978	Minnesota AES, USDA
Statehood	UT1705D	44.5	10,202	78	1996	Utah AES, USDA
Steptoe		39.0	11,641	69	1973	Washington AES, USDA

[1]Adjusted to plant 1 million seeds per acre according to the number of seeds per pound for each variety.

Table 4. New Variety Descriptions

SPRING BARLEY

Bob (WA8682-96) two-rowed feed variety, released by Washington, Oregon, and Idaho and the USDA Agricultural Research Service (ARS). Bob is a midseason maturity variety with medium height. Under irrigated conditions, Bob was equal in yield to Xena. Test weight is similar to Baronesse but less under more severely stressed dryland conditions. Bob is tall, similar to Harrington and about equal in straw strength.

Creel (93Ab688) six-rowed spring feed barley, released by the University of Idaho and the USDA Agricultural Research Service (ARS) in 2002. Creel has been equal to Colter and Brigham in yield Under dryland conditions, Creel yielded 6 bushels per acre less than Steptoe but was similar to Brigham and Legacy. Percentage plump seed was lower than Steptoe and Colter. Test weight, height, and heading date were similar to Colter and Steptoe.

Criton (91Ab3148)– two-row spring feed barley released by USDA-ARS and Idaho-AES. Criton has a good yield record especially on dryland production. Criton has above average test weight and percent plump kernels. Criton is taller than Baronesse and similar in straw strength.

IdaGold II (C32)– two-row spring feed barley released by Coors Brewing Co. IdaGold II is intended as a replacement for IdaGold and is similar in maturity and plant height. IdaGold II has strong straw relatively high yield and average test weight.

Legacy (6B93-2978)– six-row malt variety released by Busch Agricultural Resources, Inc. Legacy has good yield potential under both irrigated and higher moisture dryland conditions. It appears not as competitive when yields are below 50 bu/A. Test weight is average for six-row cultivars, and plant height is taller than average. Percent plump is above average for six-row malt varieties.

Valier (MTLB30) - two-row spring feed barley released by Montana State University. Yield has been equal to or higher than Crystal under both irrigation and dryland. Test weight has been very good and is equal to the better 2-rowed varieties, height is taller than average, and straw strength is better than average.

Moravian 37 (C37) - two-row spring malt barley released by Coors Brewing Co. Moravian 37 has slightly higher yield and test weight than Galena. Height and straw strength are similar to Galena. Heading date is earlier than Galena.

Merit (2B91-4947) – two-row spring malting barley released by Busch Agricultural Resources, Inc. Yields are similar to Galena and better than B 1202. Test weight is similar to most other 2-row varieties but tends to be lower under high test weight conditions. Height is about 2 inches taller than Moravian 19 but less than Logan. Lodging resistance is good, similar to Galena under most conditions but tends to be worse when lodging is high.

Xena (Bz594-19) – two-row spring feed barley released by Western Plant Breeders. Xena has had very high yields over the locations tested. It's yield has been comparable to Baronesse (often higher), and is about two inches taller but with similar straw strength. Test weight tends to be higher than Baronesse.

Camas (ND9147) – two-row spring feed barley released by Idaho AES/USDA. Camas is perhaps better adapted in northern Idaho than in southern Idaho, but it has shown good performance in both irrigated and dryland trials. Yield of Camas has been comparable to Baronesse in south Idaho trials and has higher test weight. Camas is taller than Baronesse, but straw strength has been as good as or better than Baronesse.

WINTER BARLEY

Sunstar Pride (SDM204-B) – winter barley released by Sunderman Breeding. Sunstar Pride is very high yielding and appears to have good winterhardiness. Test weight is higher than Mal and similar to Eight-Twelve. Sunstar Pride is shorter than most other winter barley varieties with very good straw strength. Date head is later than most varieties.

Strider (ORW6) -six-row winter feed barley released by Oregon AES. Strider has good yield potential being similar to Eight-Twelve. Test weight is similar to Eight-Twelve, and Boyer. Strider is taller than Eight-Twelve and similar to Sprinter. Heading date is similar to Eight-Twelve and straw strength is not as good as Eight-Twelve. Strider is resistant to Barley Stripe Rust.

SPRING WHEAT

Scarlet (WA7802)– hard red spring wheat released by Washington AES and USDA-ARS. Yields in 2001 were somewhat variable but generally good. Scarlet is relatively tall, being similar to Rick, and straw strength is not as good as most other varieties. Relative yield under dryland appears to be better than under irrigation. Test weight is similar to Probrand 751. End-use quality is very good.

Alturas (IDO526) – soft white spring wheat released by Idaho AES and USDA-ARS. Alturas appears to be adapted to both irrigated and dryland conditions. It is similar in height to Penawawa and heads about 1 day earlier. It is similar in yield and test weight to Penawawa. End-use quality of Alturas is very good.

Jefferson (IDO462) – hard red spring wheat released by Idaho AES and USDA-ARS. Jefferson is primarily intended as a dryland variety due to it being taller than Probrand 751 and Westbred 326 and similar to Idaho 377s. Irrigated yields have been slightly below test average but have been higher when grown on dryland. Yields have been similar to Probrand 751 with slightly higher test weight. Protein content is similar to Westbred 326, milling yield is good, and loaf volume is similar to Probrand 751 and Westbred 326.

Zeke (Bz987-331) – hard red spring wheat released by Western Plant Breeders. Zeke has yielded well under both irrigated and dryland conditions. Test weight has been about 1 pound lower than Westbred 936, but it is slightly shorter and earlier and has very good straw strength. Protein content is less than Westbred 936 but better than Rick and Probrand 751. Milling and baking characteristics have been good.

Iona (IDO492) – hard red spring wheat released by Idaho AES/USDA. Iona has yielded better under irrigation than under dryland. It has high test weight and is quite high in protein. Iona is relatively tall, taller than Rick, and has average straw strength. It is similar in heading date to Probrand 751 and Westbred 936. Milling and baking characteristics of Iona are good.

Challis (Bz692-108) – soft white spring wheat released by Western Plant Breeders. Challis has had high yields in both irrigated and dryland trials. It is average in test

weight, height, date head, and lodging resistance. Protein content is similar to Pomerelle and milling and baking scores have been good. Cookie spread is not as good as Whitebird.

Tara (WA7824) – hard red spring wheat released by Washington State University. Yield has been below the trial average under irrigation and above under dryland conditions. Test weight is average, height is taller and maturity is earlier than average.

Jubilee (IDO525) – soft white spring wheat released by University of Idaho. Jubilee has been fairly erratic in yield but generally has been slightly below average. Test weight, height and maturity are about average for soft white varieties, but end-use quality of Jubilee is excellent.

Lolo (IDO533) – hard white spring wheat released by University of Idaho. This variety is similar to Idaho 377s in most agronomic characteristics. It appears to have stronger straw.

Macon (WA7899) – hard white spring wheat released by Washington State University and USDA-ARS. Macon is resistant to Hessian Fly and moderately resistant to Stripe Rust. Macon yields about 6% less than Idaho 377s and has lower test weight. Winsome is shorter and earlier than Idaho 377s. Macon has high flour yield and good bread baking capability.

Pristine (Bz991-408) – hard white spring wheat released by Western Plant Breeders. Yields have been slightly less than Idaho 377s under both irrigated and dryland conditions. Test weight is similar to Idaho 377s, height is shorter, and date head is earlier. Straw strength is better than Idaho 377s.

Winsome (OR4870453) – hard white spring wheat released by Oregon AES. Winsome has similar yield to Pristine. Test weight is below average, height is shorter, and date head is later than most other comparable varieties. Straw strength is similar to Idaho 377s.

Zak (WA7850) – soft white spring wheat released by Washington State University. This variety was evaluated for the first time in 2000. Yield was somewhat variable but generally very good, especially on dryland. Test weight is also above average. It is similar in maturity to Pomerelle. End-use quality is very good.

WINTER WHEAT

Beamer (BZ6W93-481) – soft white winter wheat released by Western Plant Breeders. This variety was evaluated for the first time in 2000. Yields were lower than average, being similar to Temple and Daws. Test weight, date head, and maturity were similar to Stephens.

Brundage 96 (ID-B-96) – soft white winter wheat released by Idaho AES and USDA-ARS. Brundage 96 is a purified selection from Brundage with better resistance to Stripe Rust. Brundage 96 is similar to Brundage in being awnless, high yielding and strong straw. Brundage 96 averages 1-2 inches taller than Brundage and is about three days later in heading. Test weight of Brundage 96 is slightly lower than for Brundage.

Deloris (UT2030-32) – hard red winter wheat released by Utah State University. Deloris has good yield potential under both irrigated and dryland production systems but is taller than desired under irrigation. Test weight is higher than most other HRW varieties. Deloris is resistant to Dwarf Bunt.

DW (IDO513) – hard red winter variety released by Idaho and USDA-ARS. DW is best adapted to dryland environments. DW

tends to be slightly lower in yield compared to Boundary and Bonneville.

Gary (IDO550) – hard white winter wheat released by Idaho and USDA-ARS. Gary is similar in yield to Golden Spike, lower in test weight, earlier to head, and taller. Inadequate straw strength will limit acreage under irrigated conditions.

Hubbard (8610420A) – soft white winter wheat released by University of Idaho. Hubbard has an excellent yield record, higher than Stephens and similar to Lambert. Hubbard is tall like Lambert and is average in test weight, and date head. Protein content is similar to Brundage and similar to Malcolm.

Moreland (IDO517) – hard red winter wheat released by Idaho and USDA-ARS. Moreland is similar in yield to Boundary and higher than Garland. Height is similar to Declo, shorter than Boundary and taller than Garland. Straw strength is very good. Best adapted under irrigated conditions.

Pillar (BZ9W88-703) – hard red winter wheat released by Western Plant Breeders. Pillar is lower in yield than most currently available hard red winter wheat varieties. It is average in test weight, date head and height.

Tubbs(OR939526) – soft white winter wheat released by Oregon State University. Tubbs is higher in yield than Malcolm and less than Brundage. It is similar in test weight and height to Stephens but has stronger straw.

Weatherford (OR898120)- soft white winter wheat released by Oregon State University. It is resistant to stripe rust, foot rot, and common bunt, moderately resistant to leaf rust and moderately susceptible to dwarf bunt and Cephalosporium Stripe. Heading date is similar to Madsen and later than Stephens. Height is taller than most common soft white varieties, and winter hardiness is similar to Stephens. Yields in southern Idaho have been similar to Malcolm and slightly better than Stephens.

NuFrontier – (GM10001) hard white winter wheat released by General Mills. NuFrontier is similar in yield to Golden Spike but is 2-4 inches shorter. Straw strength appears to be good. Test weight is heavier than Golden Spike, and heading date is earlier. Protein content is higher than Golden Spike. Milling yield is slightly lower than for Golden Spike and NuHorizon.

NuHorizon (GM10002)– hard white winter wheat released by General Mills. NuHorizon is slightly lower in yield compared to Golden Spike and NuFrontier but has higher test weight, shorter straw and is higher in protein content. NuHorizon has better baking quality than NuFrontier and is similar to Golden Spike.

Westbred 470 (Bz6W90-470) – soft white winter wheat released by Western Plant Breeders. Yields have been somewhat variable but are only near the average of the trials. Test weight is very high, plant height is shorter, and date head is earlier than Stephens. Straw strength appears to be good.

Declo (SDM215-2) – hard red winter wheat released by Sunderman Breeding. Declo is a high yielding variety for irrigated conditions. It has high test weight and is shorter than Boundary and Promontory and taller than Garland. Date head is later than Promontory and earlier than Boundary. Protein content is higher than Boundary and similar to Promontory.

WINTER WHEAT-SOUTHCENTRAL AND SOUTHEASTERN IDAHO, 2001-2002

Table 5. Agronomic data for winter wheat at Jerome, Rupert, and Aberdeen, combined, irrigated, 2002.

	----------Yield (bu/A)----------				Test Wt.	Height	Date Head
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Average**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Soft White Winter Wheat							
ID 87-52814A	133.9	92.4	135.9	120.7	57.9	34	161
Daws	134.2	89.3	135.0	119.5	56.7	34	161
Brundage	130.9	103.3	120.7	118.3	57.8	32	156
Beamer	127.1	90.6	130.7	116.1	57.3	33	158
Lambert	120.0	92.0	133.2	115.1	56.7	37	159
Tubbs (OR939526)	118.4	88.2	136.4	114.3	54.5	33	161
CDC Falcon	123.8	93.4	123.5	113.6	58.8	33	158
Hubbard	127.3	87.0	125.7	113.3	58.3	39	162
Mohler (Bu6W93-477)	110.5	88.8	137.3	112.2	56.9	35	160
Stephens	108.4	90.4	135.9	111.6	55.6	34	159
IDO588	115.2	86.3	129.9	110.5	56.8	33	158
91-34302A	113.7	85.5	132.0	110.4	57.0	33	161
Brundage 96	117.3	100.9	111.8	110.0	55.3	33	159
Malcolm	114.4	84.2	131.4	110.0	56.1	34	161
ID17113A	116.7	79.4	131.8	109.3	55.6	34	163
Westbred 470	114.7	96.9	113.9	108.5	61.1	32	157
IDO587	113.2	84.7	125.0	107.6	54.8	33	159
MacVicar	105.4	88.7	127.3	107.1	56.6	33	160
Weatherford	112.9	83.8	124.7	107.1	56.4	35	162
OR941904	85.7	82.3	136.0	101.3	56.4	36	163
Madsen	89.1	93.7	120.5	101.1	57.0	34	162
ID0576	105.9	89.3	102.8	99.3	57.8	33	159
Average	115.7	89.4	127.3	110.8	56.9	34	160
Hard Red Winter Wheat							
Utah 100	141.5	118.9	114.9	125.1	58.5	40	159
Boundary	123.5	126.1	113.7	121.1	58.7	34	159
Deloris (UT2030-32)	127.6	123.0	112.3	121.0	61.0	41	158
Moreland (IDO517)	128.2	121.2	108.2	119.2	59.1	33	155
IDO571	130.7	121.2	103.8	118.6	58.9	32	156
Promontory	129.6	119.2	105.2	118.0	60.7	37	157
Neeley	115.6	112.8	115.0	114.5	60.7	40	159
Ute	128.1	116.0	98.9	114.3	57.7	27	159
Declo	130.3	103.5	109.1	114.3	59.5	32	156
Garland	127.0	112.7	102.0	113.9	57.0	26	159
DW (IDO513)	117.4	104.3	99.3	107.0	59.7	35	158
Hard White Winter Wheat							
NuHorizon (GM0002)	142.7	118.1	90.0	116.9	62.0	33	153
NuFrontier (GM0001)	124.8	121.3	103.6	116.5	60.4	37	154
OR850513-8	124.4	97.2	103.7	108.4	58.6	32	159
Gary (IDO550)	113.2	100.0	109.7	107.6	57.8	39	159
Golden Spike	103.0	87.3	109.8	100.0	57.9	37	161
Average	125.9	114.4	106.2	114.8	59.3	35	158

Table 6 (cont'd). Agronomic data for winter wheat at Jerome, irrigated, 2002.

	------Yield (bu/A)-----			Test Wt.	Height	Date Head
Variety	**2000**	**2001**	**2002**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Hard Red Winter Wheat						
Utah 100	132.0	129.4	141.5	59.1	41	159
Residence	---	---	133.9	59.7	38	160
IDO571	---	---	130.7	59.3	32	155
Declo	134.5	116.5	130.3	60.4	33	156
Promontory	131.6	141.0	129.6	60.2	38	156
Moreland (IDO517)	136.7	120.8	128.2	60.0	34	155
Ute	120.2	116.1	128.1	57.4	27	158
Deloris (UT2030-32)	119.0	121.8	127.6	61.4	40	156
Garland	114.2	112.6	127.0	57.0	26	158
Semper	---	---	124.0	57.6	36	158
Boundary	127.8	122.0	123.5	57.8	34	157
DW (IDO513)	---	---	117.4	60.1	35	157
Neeley	111.8	114.9	115.6	60.0	38	157
Hard White Winter Wheat						
NuHorizon (GM0002)	126.6	118.5	142.7	63.0	35	153
NuFrontier (GM0001)	122.7	123.4	124.8	62.1	37	153
OR850513-8	---	119.8	124.4	59.7	32	161
Gary (IDO550)	---	---	113.2	57.1	38	157
Golden Spike	114.5	120.5	103.0	58.0	36	158
Average	124.3	121.3	125.9	59.4	35	157
LSD.10	12.8	8.7	10.3	1.2	2	1
CV%	9.8	6.9	7.7	1.9	5	1

Table 7 (cont'd). Agronomic data for winter wheat at Rupert, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan. 1	Lodging %
Hard Red Winter Wheat							
Residence	---	---	133.5	57.6	39	161	0
Boundary	133.9	119.5	126.1	58.2	33	160	10
Semper	---	---	123.6	55.2	36	160	0
Deloris (UT2030-32)	138.0	122.4	123.0	59.6	39	159	10
IDO571	---	---	121.2	58.1	32	157	10
Moreland (IDO517)	132.0	113.8	121.2	57.1	30	154	0
Promontory	131.5	134.7	119.2	60.2	37	156	60
Utah 100	137.4	125.8	118.9	55.3	41	160	10
Ute	118.3	102.2	116.0	56.8	28	160	10
Neeley	128.2	110.0	112.8	59.5	42	159	30
Garland	134.4	100.6	112.7	54.9	24	158	10
DW (IDO513)	---	---	104.3	58.4	35	159	60
Declo	135.7	117.2	103.5	56.7	32	157	20
Hard White Winter Wheat							
NuFrontier (GM0001)	142.7	121.0	121.3	58.8	37	154	0
NuHorizon (GM0002)	145.2	112.1	118.1	60.9	32	153	0
Gary (IDO550)	---	---	100.0	57.0	37	159	70
OR850513-8	---	95.2	97.2	55.6	31	159	0
Golden Spike	135.2	104.5	87.3	55.7	37	159	70
Average	134.4	113.8	114.4	57.5	35	158	21
LSD.10	8.7	7.0	9.1	1.6	2	2	2
CV%	6.2	5.8	7.6	2.6	5	1	51

Table 8 (cont'd). Agronomic data for winter wheat at Aberdeen, irrigated, 2002.

	------Yield (bu/A)------			Test Wt.	Height	Date Head	Lodging
Variety	**2000**	**2001**	**2002**	**(lb/bu)**	**(in.)**	**from Jan. 1**	**%**
Hard Red Winter Wheat							
Neeley	135.4	121.9	115.0	62.7	40	162	0
Utah 100	140.5	105.7	114.9	61.1	39	159	0
Boundary	146.9	106.3	113.7	60.3	34	160	0
Deloris (UT2030-32)	128.7	109.0	112.3	62.1	43	159	0
Declo	143.6	101.0	109.1	61.3	32	156	0
Moreland (IDO517)	---	103.8	108.2	60.3	34	155	0
Promontory	128.6	112.2	105.2	61.6	36	160	0
IDO571	---	---	103.8	59.3	33	156	0
Garland	121.0	103.1	101.9	59.1	26	160	0
DW (IDO513)	122.6	106.2	99.3	60.5	36	156	0
Ute	128.8	98.6	98.9	58.8	26	160	0
Hard White Winter Wheat							
Golden Spike	137.5	109.3	109.8	59.9	39	165	40
Gary (IDO550)	120.5	104.0	109.7	59.4	41	162	20
OR850513-8	---	86.2	103.7	60.3	34	158	0
NuFrontier (GM0001)	102.4	100.1	103.6	60.4	35	154	0
NuHorizion (GM0002)	119.5	81.7	90.0	62.2	32	154	0
Average	128.9	103.3	106.2	60.6	35	158	4
LSD.10	9.5	10.4	7.0	0.6	2	2	1
CV%	7.0	9.6	6.2	0.9	5	2	283

Table 9 (cont'd). Agronomic data for winter wheat at Ririe, dryland, 2002.

	------Yield (bu/A)------			Test Wt.	Height	Date Head
Variety	**2000**	**2001**	**2002**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Hard Red Winter Wheat						
Bonneville	40.0	23.7	52.2	62.2	31	171
Boundary	33.1	19.7	48.8	57.6	23	167
Weston	29.4	25.4	48.3	61.6	32	166
Survivor	37.0	19.9	48.1	60.5	28	166
Utah 100	38.7	26.3	47.7	57.7	31	169
Neeley	---	19.7	46.3	60.1	27	169
Moreland (IDO517)	25.0	18.8	46.3	57.5	24	167
Promontory	33.5	18.9	45.1	61.0	27	168
Manning	38.7	21.6	44.8	60.2	27	168
Declo	27.4	17.6	44.7	59.9	23	166
Deloris (UT2030-32)	34.4	27.7	43.6	59.7	30	169
IDO571	---	---	43.1	57.9	24	167
DW (IDO513)	34.9	21.4	41.2	60.4	24	168
Hard White Winter Wheat						
Golden Spike	35.2	22.6	53.5	58.4	26	168
NuFrontier (GM0001)	29.8	20.4	52.2	60.8	25	165
NuHorizion (GM0002)	19.8	18.3	46.4	62.3	23	164
Gary (IDO550)	34.6	22.2	43.7	59.3	27	168
OR850513-8	---	19.1	38.9	59.3	26	169
Average	32.8	21.4	46.4	59.8	27	168
LSD.10	2.8	1.6	3.1	0.8	1	1
CV%	8.1	7.3	6.2	1.3	5	1

WINTER BARLEY-SOUTHCENTRAL AND SOUTHEASTERN IDAHO, 2001-2002

Table 10. Agronomic data for winter barley at Jerome, and Aberdeen, combined, irrigated, 2002.

	---------Yield (bu/A)---------			Test Wt.	Height	Date Head	%Plump	%Thin
Variety	Jerome	Aberdeen	Average	(lb/bu)	(in.)	from Jan. 1	(>6/64)	(<5.5/64)
Strider	163.7	175.4	169.5	48.1	34	151	75	7
91Ab23	173.7	163.9	168.8	47.4	30	153	57	19
Sprinter	148.1	186.1	167.1	48.4	35	156	70	15
92Ab561	152.4	181.4	166.9	49.0	33	152	65	13
91Ab36	152.2	174.7	163.4	46.0	32	154	63	19
97Ab11	150.1	175.9	163.0	47.3	33	158	59	20
ORSTAB-113	160.7	163.0	161.8	49.6	36	151	81	7
Scio	155.9	166.9	161.4	47.4	34	152	69	11
Schuyler	153.8	166.3	160.0	49.4	34	152	62	16
86Ab474	167.5	152.2	159.9	47.5	31	153	53	27
Eight-Twelve	175.8	142.7	159.2	48.9	31	151	81	6
Boyer	132.6	183.7	158.1	47.3	34	153	62	17
SDM801	148.6	167.0	157.8	47.6	28	158	55	24
Sunstar Pride	144.2	164.8	154.5	46.5	33	160	38	35
ORSTAB-7	156.8	150.7	153.8	48.1	33	149	73	10
ORSTAB-47	143.1	140.0	141.5	49.3	38	150	83	5
94Ab1274	126.1	151.2	138.6	48.3	33	152	80	7
94Ab1269	142.4	131.9	137.2	49.0	30	151	84	6
85Ab216	129.8	139.7	134.8	48.6	32	154	75	15
Average	151.4	162.1	156.7	48.1	33	153	68	15

Table 11. Agronomic data for winter barley at Jerome, irrigated, 2002.

Variety	Yield (bu/A) 2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan. 1	Lodging %	Plump (>6/64)	Thin (<5.5/64)
Eight-Twelve	175.8	49.2	31	150	10	74	10
91Ab23	173.7	46.7	30	153	30	36	32
86Ab474	167.5	47.7	30	154	10	31	47
Strider	163.7	48.4	32	149	30	71	9
ORSTAB-113	160.7	50.2	33	150	20	70	12
ORSTAB-7	156.8	49.7	32	147	0	67	15
Scio	155.9	47.2	34	152	20	55	18
Schuyler	153.8	48.8	33	152	20	47	26
92Ab561	152.4	48.3	32	151	20	44	24
91Ab36	152.2	45.7	31	153	30	43	33
97Ab11	150.1	46.9	32	158	20	42	34
SDM801	148.6	47.1	27	157	20	35	41
Sprinter	148.1	47.2	32	153	30	56	26
ORSTAB-47	143.1	50.2	38	151	10	84	5
94Ab1269	142.4	49.5	33	152	0	77	10
Boyer	132.6	46.4	32	153	10	44	29
85Ab216	129.8	47.9	33	154	30	57	27
94Ab1274	126.1	49.9	33	153	10	69	13
Sunstar Pride	144.2	46.9	31	161	10	32	46
Average	151.4	48.1	32	153	17	54	24
LSD.10	11.6	1.4	2	1	1	---	---
CV%	8.5	3.2	7	1	76	---	---

Table 12. Agronomic data for winter barley at Aberdeen, irrigated, 2002.

	------Yield (bu/A)------			Test Wt.	Height	Date Head	Lodging	Plump	Thin
Variety	2000	2001	2002	(lb/bu)	(in.)	from Jan. 1	%	(>6/64)	(<5.5/64)
Sprinter	222.9	157.8	186.1	49.7	39	158	10	85	4
Boyer	194.0	148.2	183.7	48.2	36	153	30	83	5
92Ab561	217.8	148.0	181.4	49.8	35	154	10	87	3
97Ab11	204.6	151.1	175.9	47.8	34	159	10	78	7
Strider	211.9	149.9	175.4	47.9	35	152	10	79	6
91Ab36	242.9	151.4	174.7	46.4	33	155	60	86	4
SDM801	---	151.3	167.0	48.2	30	160	0	75	7
Scio	212.5	140.4	166.9	47.5	35	152	10	86	4
Schulyer	169.1	138.1	166.3	50.1	34	153	40	80	5
Mal	210.5	137.7	164.8	46.8	37	154	40	67	11
Sunstar Pride	235.0	166.1	164.8	46.0	35	158	0	44	24
91Ab23	234.1	158.4	163.9	48.1	31	154	10	78	6
ORSTAB-113	---	120.3	163.0	49.0	39	152	30	93	2
86Ab474	208.7	155.4	152.2	47.4	33	151	20	76	8
94Ab1274	---	132.0	151.2	46.8	32	150	70	94	2
ORSTAB-7	---	111.3	150.7	46.6	35	150	60	81	5
Eight-Twelve	209.4	145.5	142.7	48.7	30	151	40	92	2
ORSTAB-47	---	106.8	140.0	48.5	38	149	60	84	4
85Ab216	---	138.2	139.7	49.3	32	154	40	94	2
94Ab1269	---	125.0	131.9	48.4	27	150	40	94	2
Average	213.3	141.6	162.1	48.0	34	153	30	82	6
LSD.10	16.6	7.4	10.2	0.9	3	1	2	---	---
CV%	7.3	4.9	5.9	1.9	7	1	65	---	---

SPRING WHEAT-SOUTHCENTRAL AND SOUTHERASTERN IDAHO, 2002

Table 13. Agronomic data for spring wheat, Twin Falls and Rupert, combined, irrigated, 2002.

	----------Yield (bu/A)----------			Test Wt.	Height	Date Head
Variety	**Twin Falls**	**Rupert**	**Average**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Soft White Spring Wheat						
Treasure	96.4	84.6	90.5	62.3	36	174
Zak	96.5	77.6	87.1	61.2	33	170
Alpowa	93.3	79.3	86.3	60.8	34	171
Challis	96.1	74.4	85.3	62.0	31	172
WA007905	89.0	78.5	83.8	62.2	29	173
Penawawa	90.3	73.7	82.0	61.3	35	172
ML042-409-1,5	77.9	80.6	79.3	60.7	35	174
Alturas (ID0526)	85.4	72.3	78.9	62.0	34	173
Whitebird	79.5	75.2	77.4	60.8	33	174
IDO556	81.0	71.1	76.1	61.6	38	172
Jubilee	82.1	67.2	74.7	62.5	34	172
Eden (WA7902)	79.4	68.4	73.9	61.8	35	173
Average	87.2	75.2	81.2	61.6	34	172

Table 13 (cont'd). Agronomic data for spring wheat, Twin Falls and Rupert, combined, irrigated, 2002.

	----------Yield (bu/A)----------			Test Wt.	Height	Date Head
Variety	**Twin Falls**	**Rupert**	**Average**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Hard Red Spring Wheat						
SX1501B	92.6	109.4	101.0	60.8	28	176
Zeke	80.2	112.2	96.2	62.1	32	170
Scarlet	73.5	112.4	93.0	61.9	33	172
IDO566	91.2	92.7	92.0	59.8	32	171
Iona	78.5	104.5	91.5	63.4	40	171
Jefferson	80.9	101.0	91.0	62.4	34	171
Rick	75.9	104.6	90.3	60.7	36	171
Hank	79.0	99.0	89.0	60.5	34	170
SX1503B	82.7	94.9	88.8	54.5	29	177
IDO557	79.1	98.2	88.7	61.8	32	171
SX1502B	81.4	95.9	88.7	59.6	33	173
WB936	74.3	93.9	84.1	61.2	31	170
Saxon	72.4	94.4	83.4	61.6	36	171
Tara	76.8	87.0	81.9	61.9	34	169
Hollis (WA007859)	66.4	77.9	72.2	61.9	40	172
Hard White Spring Wheat						
Idaho 377s	88.2	110.8	99.5	63.2	35	172
Lolo	86.4	103.7	95.1	63.3	35	172
ML181,A-1-38	85.8	96.9	91.4	61.1	33	171
Winsome	83.3	98.9	91.1	60.6	33	174
Macon (WA7899)	85.7	96.0	90.9	61.3	37	170
Blanca Grande	78.4	102.4	90.4	63.2	28	170
Pristine	80.5	98.8	89.7	63.8	33	170
Plata (GM40019)	79.7	96.6	88.2	62.5	30	172
WA7900	77.4	98.1	87.8	61.8	39	172
GM40002	79.3	92.8	86.1	62.2	32	169
Klasic	72.2	93.3	82.8	62.6	29	168
GM40003	73.6	89.2	81.4	62.8	36	169
YU995-231W	76.5	85.9	81.2	61.9	23	171
Spring Durum Wheat						
GM90005	75.6	113.1	94.4	63.1	35	172
Utopia	76.2	101.3	88.8	62.3	29	169
Kronos	65.2	104.0	84.6	61.6	28	168
GM90014	66.7	102.2	84.5	63.6	30	170
GM90002	64.0	103.8	83.9	63.4	31	170
Matt	65.2	98.1	81.7	62.6	30	168
GM90003	58.2	104.3	81.3	63.3	31	171
YU894-75	62.9	89.1	76.0	62.2	32	168
GM90015	60.7	86.9	73.8	61.3	32	170
Average	76.4	98.5	87.4	61.8	32	171

Table 14. Agronomic data for spring wheat at Twin Falls, irrigated, 2002.

	----------Yield (bu/A)--------			Test Wt.	Height	Date Head
Variety	**2000**	**2001**	**2002**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Soft White Spring Wheat						
Zak	101.5	93.5	96.5	62.8	33	170
Treasure	102.8	97.1	96.4	61.4	31	170
Challis	105.0	107.1	96.1	62.0	32	168
Alpowa	106.2	109.7	93.3	63.6	34	170
Penawawa	93.9	104.8	90.3	63.2	30	169
WA007905	---	---	89.0	62.1	36	169
Alturas (ID0526)	115.2	100.6	85.4	62.6	29	168
Jubilee	100.0	101.6	82.1	62.6	33	169
IDO556	---	85.4	81.0	62.8	27	169
Whitebird	104.1	90.9	79.5	63.1	32	169
Eden (WA7902)	---	85.4	79.4	62.6	28	168
ML042-409-1,5	114.8	100.7	77.9	61.4	33	170
Average	104.8	97.9	87.2	62.5	32	169
LSD.10	8.2	6.6	5.4	0.7	2	1
CV%	7.2	6.3	5.8	1.1	5	0

Table 14 (cont'd). Agronomic data for spring wheat at Twin Falls, irrigated, 2002.

	----------Yield (bu/A)--------			Test Wt.	Height	Date Head
Variety	2000	2001	2002	(lb/bu)	(in.)	from Jan. 1
Hard Red Spring Wheat						
SX1501B	---	---	92.6	60.9	27	173
IDO566	---	---	91.2	60.8	28	168
SX1503B	---	---	82.7	55.8	29	175
SX1502B	---	---	81.4	60.3	31	169
Jefferson	85.3	86.3	80.9	62.6	31	168
Zeke	97.4	88.1	80.2	63.9	29	167
ID0557	---	86.0	79.1	63.2	29	168
Hank	97.4	83.5	79.0	60.9	29	167
Iona	---	85.5	78.5	63.6	40	167
Tara	---	79.8	76.8	61.8	31	167
Rick	90.3	83.4	75.9	61.4	32	168
WB936	103.5	83.0	74.3	62.1	26	168
Scarlet	---	76.4	73.5	62.6	25	169
Saxon	---	---	72.4	62.2	33	168
Hollis (WA007859)	---	---	66.4	62.2	36	168
Hard White Spring Wheat						
Idaho 377s	104.2	81.4	88.2	63.9	33	168
Lolo	114.6	77.8	86.4	63.9	33	168
ML181,A-1-38	---	---	85.8	61.7	30	168
Macon (WA7899)	---	81.7	85.7	62.0	35	167
Winsome	92.8	83.8	83.3	60.7	32	170
Pristine	87.9	80.0	80.5	63.9	29	167
Plata (GM40019)	---	81.5	79.7	64.1	28	168
GM40002	---	71.3	79.3	62.4	29	167
Blanca Grande	---	---	78.4	63.0	24	167
WA7900	---	80.4	77.4	61.7	37	169
YU995-231W	---	---	76.5	61.5	21	168
GM40003	---	---	73.6	62.7	37	167
Klasic	86.0	84.3	72.2	63.7	26	166
Spring Durum Wheat						
Utopia	84.8	75.0	76.2	61.9	26	167
GM90005	---	---	75.6	63.1	30	167
GM90014	---	---	66.7	63.5	25	168
Kronos	72.8	75.9	65.2	60.9	24	167
Matt	---	77.0	65.2	61.5	27	166
GM90002	---	---	64.0	62.4	28	167
YU894-75	---	---	62.9	61.5	27	167
GM90015	---	---	60.7	61.6	28	167
GM90003	---	---	58.2	63.5	28	168
Average	93.1	81.1	76.4	62.1	30	168
LSD.10	5.3	7.9	4.6	0.6	4	1
CV%	5.5	9.3	5.6	1	12	0

Table 15. Agronomic data for spring wheat at Rupert, irrigated, 2002.

Variety	----------Yield (bu/A)-------- 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan. 1	Lodging %
Soft White Spring Wheat							
Treasure	124.4	112.4	84.6	60.2	35	177	0
ML042-409-1,5	---	119.9	80.6	60.0	37	177	0
Alpowa	112.7	121.0	79.3	61.8	37	177	0
WA007905	---	---	78.5	61.1	40	175	0
Zak	126.3	106.2	77.6	60.8	37	176	0
Whitebird	113.5	105.7	75.2	61.9	36	175	0
Challis	124.8	111.2	74.4	60.2	35	173	0
Penawawa	133.1	106.9	73.7	60.7	38	176	0
Alturas (ID0526)	121.3	117.9	72.3	59.8	37	172	0
IDO556	---	88.5	71.1	61.6	31	177	0
Eden (WA7902)	---	98.8	68.4	61.4	34	176	0
Jubilee	123.3	100.2	67.2	60.0	36	175	0
Average	122.4	108.1	75.2	60.8	36	176	0
LSD.10	6.3	6.6	4.4	0.7	1	1	0
CV%	4.9	5.7	5.5	1.1	3	1	48

Table 15 (cont'd). Agronomic data for spring wheat at Rupert, irrigated, 2002.

Variety	----------Yield (bu/A)-------- 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan. 1	Lodging %
Hard Red Spring Wheat							
Scarlet	---	111.5	112.4	61.2	41	175	0
Zeke	110.0	116.0	112.2	60.3	35	172	0
SX1501B	---	---	109.4	60.7	29	178	0
Rick	110.2	115.5	104.6	60.0	39	174	0
Iona	---	111.8	104.5	63.1	39	175	10
Jefferson	111.5	107.1	101.0	62.2	36	174	0
Hank	106.8	104.4	99.0	60.0	38	173	0
ID0557	---	113.0	98.2	60.3	34	174	0
SX1502B	---	---	95.9	58.8	34	176	0
SX1503B	---	---	94.9	53.1	29	179	0
Saxon	---	---	94.4	61.0	39	174	0
WB936	99.6	112.4	93.9	60.2	36	172	0
IDO566	---	---	92.7	58.7	35	173	0
Tara	99.6	99.0	87.0	61.9	37	171	0
Hollis (WA00785	---	---	77.9	61.5	44	175	10
Hard White Spring Wheat							
Idaho 377s	122.4	115.3	110.8	62.5	37	175	10
Lolo	122.3	122.3	103.7	62.7	37	176	0
Blanca Grande	---	---	102.4	63.4	31	172	0
Winsome	117.1	108.3	98.9	60.4	34	177	0
Pristine	104.7	109.5	98.8	63.6	37	172	0
WA7900	---	100.7	98.1	61.9	41	175	0
ML181,A-1-38	---	---	96.9	60.4	36	174	0
Plata (GM40019)	---	103.9	96.6	60.9	31	176	0
Macon (WA7899)	---	102.6	96.0	60.6	39	173	0
Klasic	72.0	103.5	93.3	61.5	31	170	0
GM40002	---	102.7	92.8	61.9	35	171	0
GM40003	---	---	89.2	62.9	34	171	10
YU995-231W	---	---	85.9	62.2	25	173	0
Spring Durum Wheat							
GM90005	---	---	113.1	63.0	39	176	10
GM90003	---	---	104.3	63.1	33	173	0
Kronos	79.0	104.7	104.0	62.2	31	169	0
GM90002	---	---	103.8	64.4	34	173	0
GM90014	---	---	102.2	63.7	34	171	0
Utopia	97.3	111.7	101.3	62.6	32	170	0
Matt	---	102.0	98.1	63.6	33	170	0
YU894-75	---	---	89.1	62.8	36	169	0
GM90015	---	---	86.9	60.9	36	172	0
Average	104.0	108.5	98.5	61.5	35	173	1
LSD.10	5.6	5.7	5.7	1	1	1	1
CV%	5.3	5.0	5.5	1	6	1	144

Table 16. Agronomic data for spring wheat at Aberdeen, Idaho Falls, and Ashton, combined, 2002.

	----------Yield (bu/A)----------				Test Wt.	Height	Date Head
Variety	**Aberdeen**	**Idaho Falls**	**Ashton**	**Average**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Soft White Spring Wheat							
ML042-409-1,5	114.4	94.5	79.7	96.2	60.7	33	185
Alpowa	107.2	89.1	80.1	92.1	62.5	33	184
Zak	109.0	91.9	73.8	91.6	62.1	35	184
Challis	103.2	91.1	77.3	90.5	61.2	33	183
Alturas (ID0526)	103.7	84.5	82.8	90.3	62.1	33	183
Treasure	106.4	87.1	74.3	89.3	60.9	32	184
Whitebird	97.2	87.6	73.6	86.1	61.5	34	184
Jubilee	104.2	77.1	73.8	85.0	62.3	33	184
WA007905	88.7	87.6	75.6	84.0	62.0	36	183
IDO556	96.6	76.4	77.0	83.3	62.9	31	183
Eden (WA7902)	84.3	87.5	70.4	80.7	61.3	32	182
Penawawa	83.6	84.3	72.5	80.1	62.1	32	184
Average	99.9	86.6	75.9	87.4	61.8	33	184

Table 16 (cont'd). Agronomic data for spring wheat at Aberdeen, Idaho Falls, and Ashton, combined, 2002.

	----------Yield (bu/A)----------				Test Wt.	Height	Date Head
Variety	**Aberdeen**	**Idaho Falls**	**Ashton**	**Average**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Hard Red Spring Wheat							
SX1501B	92.1	89.6	80.0	87.2	59.9	28	186
SX1502B	89.0	94.0	73.3	85.4	60.6	31	185
Hank	87.7	89.6	78.3	85.2	60.9	30	183
IDO566	96.3	86.8	71.5	84.9	61.9	33	179
SX1503B	86.3	107.1	59.2	84.2	54.7	27	187
WB936	81.5	91.0	76.0	82.8	62.5	31	180
IDO557	84.5	94.0	69.0	82.5	61.4	31	181
Saxon	79.9	92.2	75.0	82.4	61.6	33	182
Scarlet	89.6	82.0	72.9	81.5	62.5	36	182
Iona	78.6	85.1	78.4	80.7	61.8	36	182
Jefferson	77.0	83.7	76.8	79.2	62.2	33	181
Rick	76.0	83.0	75.7	78.2	61.2	34	181
Zeke	84.2	71.3	73.1	76.2	60.9	33	179
Tara	72.2	84.5	68.8	75.2	62.5	34	179
Hollis (WA007859)	48.2	77.0	65.3	63.5	60.9	39	182
Hard White Spring Wheat							
Idaho 377s	94.2	94.1	84.0	90.8	62.8	32	182
Winsome	88.3	90.8	79.6	86.2	61.0	32	186
Plata	81.0	88.9	76.1	82.0	62.4	27	182
Lolo	86.5	81.4	77.9	81.9	62.9	33	181
Blanca Grande	83.0	84.5	71.6	79.7	64.4	29	178
Pristine	84.4	82.2	72.1	79.6	64.2	32	178
GM40003	83.9	73.4	74.0	77.1	64.2	32	179
Klasic	72.3	81.5	77.0	76.9	63.3	25	177
WA7900	81.5	80.2	63.0	74.9	62.0	37	182
YU995-231W	68.5	76.6	77.7	74.3	62.2	23	180
GM40002	77.3	75.2	63.0	71.8	63.5	33	178
Macon (WA7899)	71.6	72.7	69.3	71.2	62.0	34	181
Spring Durum Wheat							
Utopia	78.3	79.3	78.0	78.5	62.1	28	181
Kronos	84.5	80.0	68.6	77.7	62.5	28	178
YU894-75	80.7	84.1	67.8	77.5	63.0	32	179
Matt	64.2	93.5	73.7	77.1	62.7	29	179
GM90005	78.8	85.2	64.1	76.0	63.3	36	182
GM90002	68.6	84.5	71.3	74.8	64.2	30	181
GM90003	58.8	83.7	76.4	73.0	63.7	29	181
GM90014	79.0	74.3	63.3	72.2	64.1	31	179
GM90015	55.7	71.5	72.8	66.7	61.8	28	182
Average	79.4	84.1	72.6	78.6	62.2	31	181

Table 17. Agronomic data for spring wheat, Aberdeen, irrigated, 2002.

Variety	----------Yield (bu/A)---------- 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1
Soft White Spring Wheat						
ML042-409-1,5	90.1	80.8	114.4	60.3	36	177
Zak	106.7	89.7	109.0	62.0	41	176
Alpowa	99.1	89.0	107.2	63.0	37	175
Treasure	103.7	125.5	106.4	59.6	38	176
Jubilee	86.1	75.7	104.2	61.7	37	175
Alturas (IDO526)	84.6	114.5	103.7	61.0	37	175
Challis	96.2	119.7	103.2	61.1	37	174
Whitebird	86.0	89.7	97.2	60.9	39	176
IDO556	---	102.2	96.6	62.6	32	174
WA007905	---	---	88.7	61.4	41	176
Eden (WA7902)	---	91.6	84.3	61.5	35	174
Penawawa	89.9	119.6	83.6	61.2	36	174
Average	93.6	99.8	99.9	61.4	37	175
LSD.10	10.6	9.2	5.1	0.5	2	1
CV%	11.0	8.7	4.7	0.8	4	0

Table 17 (cont'd). Agronomic data for spring wheat, Aberdeen, irrigated, 2002.

Variety	Yield (bu/A) 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1
Hard Red Spring Wheat						
IDO566	---	---	96.3	62.0	36	169
SX1501B	---	---	92.1	60.5	30	178
Scarlet	---	112.8	89.6	62.8	42	172
SX1502B	---	---	89.0	59.9	34	176
Hank	97.1	105.6	87.7	61.3	34	172
SX1503B	---	---	86.3	56.4	28	178
IDO557	---	111.5	84.5	61.5	35	171
Zeke	86.7	109.5	84.2	60.4	36	169
WB936	115.9	110.1	81.5	62.0	35	171
Saxon	---	---	79.9	61.5	35	172
Iona	---	103.0	78.6	62.7	39	172
Jefferson	108.6	107.1	77.0	62.2	36	172
Rick	107.0	120.1	76.0	60.7	36	172
IDO545	91.0	101.8	73.8	61.7	42	172
Tara	91.8	96.9	72.2	62.4	36	169
Hollis (WA007859)	---	---	48.2	61.6	43	173
Hard White Spring Wheat						
ML181,A-1-38	---	---	99.1	62.5	37	172
Idaho 377s	111.0	118.5	94.2	63.3	35	171
Winsome	108.7	113.0	88.3	61.0	33	177
Lolo	102.5	120.0	86.5	63.4	36	172
Pristine	96.6	108.2	84.4	63.7	35	169
GM40003	---	---	83.9	63.3	35	169
Blanca Grande	---	---	83.0	63.9	34	169
WA7900	---	103.3	81.5	62.0	42	173
Plata	---	---	81.0	62.9	29	173
GM40002	---	92.2	77.3	62.9	35	168
Klasic	90.6	104.1	72.3	63.5	28	168
Macon (WA7899)	---	100.5	71.6	61.9	37	171
YU995-231W	---	---	68.5	61.5	25	171
Spring Durum Wheat						
Kronos	92.7	106.7	84.5	61.7	30	169
YU894-75	---	---	80.7	62.8	36	169
GM90014	---	---	79.0	63.6	34	172
GM90005	---	---	78.8	63.6	41	173
Utopia	97.8	108.7	78.3	61.8	31	173
GM90002	---	---	68.6	64.1	32	172
Matt	---	96.4	64.2	62.5	31	170
GM90003	---	---	58.8	62.7	31	171
GM90015	---	---	55.7	60.1	30	174
Average	99.9	107.1	79.4	62.1	35	172
LSD.10	12.0	6.3	7.8	0.4	1	1
CV%	11.4	5.8	9.4	0.5	4	0

Table 18. Agronomic data for spring wheat at Idaho Falls, irrigated, 2002.

Variety	----------Yield (bu/A)-------- 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan. 1
Soft White Spring Wheat						
ML042-409-1,5	116.4	112.0	94.5	61.7	32	181
Zak	110.2	95.7	91.9	62.9	33	181
Challis	122.2	101.4	91.1	61.3	32	179
Alpowa	109.9	110.6	89.1	63.5	33	181
WA007905	---	---	87.6	62.7	34	179
Whitebird	109.7	99.2	87.6	63.2	30	180
Eden (WA7902)	---	96.6	87.5	62.4	31	179
Treasure	116.0	103.5	87.1	62.2	31	181
Alturas (ID0526)	115.0	103.3	84.5	62.7	31	180
Penawawa	108.8	103.2	84.3	61.9	31	181
Jubilee	102.5	99.8	77.1	63.0	31	181
IDO556	---	89.2	76.4	62.8	32	180
Average	112.3	101.3	86.6	62.5	32	180
LSD.10	11.0	3.5	8.7	0.4	2	1
CV%	9.0	3.2	9.2	0.6	6	0

Table 18 (cont'd). Agronomic data for spring wheat at Idaho Falls, irrigated, 2002.

Variety	----------Yield (bu/A)-------- 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan. 1
Hard Red Spring Wheat						
SX1503B	---	---	107.0	57.3	26	184
IDO557	---	109.0	94.0	62.0	29	176
SX1502B	---	---	94.0	61.0	30	181
Saxon	---	---	92.2	61.8	33	178
WB936	118.0	103.0	91.0	62.6	29	176
SX1501B	---	---	89.6	61.9	28	183
Hank	111.2	98.5	89.6	60.7	26	184
IDO566	---	---	86.8	61.3	30	176
Iona	---	106.8	85.1	60.8	37	179
Tara	116.1	96.6	84.5	62.7	34	176
Jefferson	120.5	105.7	83.7	62.1	32	177
Rick	124.3	108.9	83.0	61.9	35	178
Scarlet	---	110.1	82.0	61.8	34	179
Hollis (WA007859)	---	---	77.0	62.3	39	178
Zeke	132.5	109.0	71.3	61.4	31	176
Hard White Spring Wheat						
Idaho 377s	135.9	112.5	94.1	63.0	33	178
Winsome	120.9	105.6	90.8	62.5	31	182
Plata	---	106.1	88.9	63.0	26	178
ML181,A-1-38	---	---	85.1	61.8	31	177
Blanca Grande	---	---	84.5	64.2	26	175
Pristine	125.7	101.9	82.2	64.2	32	175
Klasic	111.9	90.0	81.5	61.5	24	174
Lolo	135.0	113.9	81.4	63.6	30	177
WA7900	---	106.5	80.2	62.2	36	179
YU995-231W			76.6	61.5	22	177
GM40002	---	88.1	75.2	62.6	31	174
GM40003	---	---	73.4	63.8	30	175
Macon (WA7899)	---	97.6	72.7	61.1	33	177
Spring Durum Wheat						
Matt	---	89.0	93.5	62.5	26	175
GM90005	---	---	85.2	64.4	34	178
GM90002	---	---	84.5	64.9	28	177
YU894-75	---	---	84.1	62.8	29	175
GM90003	---	---	83.7	64.2	28	177
Kronos	119.3	100.0	80.0	62.3	26	175
Utopia	111.3	100.7	79.3	62.6	26	177
GM90014	---	---	74.4	64.3	29	175
GM90015	---	---	71.5	62.9	26	178
Average	121.7	102.8	84.1	62.4	30	177
LSD.10	8.3	6.1	8.6	0.9	1	1
CV%	6.5	5.6	9.7	1.3	4	0

Table 19. Agronomic data for spring wheat at Ashton, irrigated, 2002.

	--------Yield (bu/A)--------			Test Wt.	Height	Date Head
Variety	**1999 [1]**	**2001**	**2002**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Soft White Spring Wheat						
Alturas (ID0526)	81.9	103.2	82.8	62.6	31	195
Alpowa	66.4	92.9	80.1	60.9	30	197
ML042-409-1,5	---	---	79.7	60.1	32	196
Challis	74.6	93.9	77.3	61.1	29	195
IDO556	---	88.8	77.0	63.4	28	195
WA007905	---	---	75.6	61.9	34	194
Treasure	79.2	97.5	74.3	60.9	27	196
Jubilee	71.7	90.1	73.8	62.1	31	196
Zak	---	94.0	73.8	61.5	31	195
Whitebird	67.9	94.4	73.6	60.3	32	196
Penawawa	74.4	89.7	72.5	63.3	29	196
Eden (WA7902)	---	85.6	70.4	60.0	30	194
Average	73.7	93.0	75.9	61.5	30	195
LSD.10	7.4	4.8	6.3	1.2	2	0
CV%	9.3	4.8	7.7	1.8	6	0

[1]2000 Trial was not harvested.

Table 19 (cont'd). Agronomic data for spring wheat at Ashton, irrigated, 2002.

	----------Yield (bu/A)----------			Test Wt.	Height	Date Head
Variety	1999 [1]	2001	2002	(lb/bu)	(in.)	from Jan. 1
Hard Red Spring Wheat						
SX1501B	---	---	80.0	57.4	27	197
Iona	75.5	84.3	78.4	61.8	32	195
Hank	63.6	84.4	78.3	60.6	30	192
Jefferson	67.2	81.6	76.8	62.4	31	194
WB936	72.9	81.9	76.0	63.0	28	193
Rick	66.9	86.9	75.7	61.1	31	194
Saxon	---	---	75.0	61.6	32	195
SX1502B	---	---	73.3	61.0	30	197
Zeke	88.9	85.1	73.1	60.9	32	193
Scarlet	---	83.1	72.9	62.9	32	195
IDO566	---	---	71.5	62.5	32	191
IDO557	---	77.6	69.0	60.8	29	195
Tara	---	74.4	68.8	62.4	33	191
Hollis (WA007859)	---	---	65.3	58.7	35	195
SX1503B	---	---	59.2	50.5	27	199
Hard White Spring Wheat						
Idaho 377s	81.1	96.6	84.0	61.9	29	195
Winsome	64.2	92.4	79.6	59.5	31	198
Lolo	81.0	87.4	77.9	61.7	32	195
YU995-231W	---	---	77.7	63.5	22	191
Klasic	89.8	69.4	77.0	65.0	22	189
Plata	---	---	76.1	61.3	27	196
GM40003	---	---	74.0	65.5	30	192
Pristine	---	83.9	72.1	64.7	30	191
Blanca Grande	---	---	71.6	65.0	27	190
Macon (WA7899)	---	71.7	69.3	63.0	31	194
GM40002	---	76.0	63.0	65.1	33	191
WA7900		77.6	63.0	61.8	34	195
Spring Durum Wheat						
Utopia	88.2	81.5	78.0	61.9	27	192
GM90003	---	---	76.4	64.2	29	194
Matt	---	74.4	73.7	63.0	29	191
GM90015	---	---	72.8	62.3	28	194
GM90002	---	---	71.3	63.4	30	193
Kronos	85.2	75.5	68.6	63.5	28	190
YU894-75	---	---	67.8	63.5	30	192
GM90005	---	---	64.1	62.0	32	195
GM90014	---	---	63.3	64.4	30	191
Average	77.0	81.3	72.6	62.0	30	193
LSD.10	9.1	4.0	5.4	1.0	1	1
CV%	11.5	4.6	7.0	1.6	4	0

[1]2000 Trial was not harvested.

Table 20. Agronomic data for spring wheat at Ririe and Soda Springs, combined, dryland, 2002.

	----------Yield (bu/A)--------			Test Wt.	Height	Date Head
Variety	**Ririe**	**Soda Spgs.**	**Average**	**(lb/bu)**	**(in.)**	**from Jan. 1**
Soft White Spring Wheat						
Alpowa	17.9	60.1	39.0	59.4	22	186
Alturas (ID0526)	16.6	59.7	38.1	57.8	21	186
Jubilee	17.3	57.4	37.4	59.1	22	187
Whitebird	16.9	56.4	36.7	59.2	22	187
Penawawa	16.2	57.0	36.6	57.4	22	186
Zak	16.0	56.7	36.4	59.1	21	187
IDO556	15.8	56.4	36.1	59.9	20	187
WA007905	16.1	55.8	35.9	58.6	25	186
Treasure	17.9	50.8	34.4	57.5	20	186
Eden (WA7902)	16.8	50.6	33.7	59.7	21	186
Average	16.7	56.1	36.4	58.8	22	186

Table 20 (cont'd). Agronomic data for spring wheat at Ririe and Soda Springs, combined, dryland, 2002.

	----------Yield (bu/A)--------			Test Wt.	Height	Date Head
Variety	Ririe	Soda Spgs.	Average	(lb/bu)	(in.)	from Jan. 1
Hard Red Spring Wheat						
SX1501B	15.2	61.3	38.2	57.7	18	189
Hank	17.8	57.3	37.5	57.4	22	184
SX1503B	14.5	60.2	37.3	54.8	18	189
WB936	13.8	59.2	36.5	58.0	22	184
Zeke	14.1	58.6	36.4	55.4	22	184
Rick	17.4	54.6	36.0	58.0	24	185
Iona	16.6	54.4	35.5	59.1	23	186
Scarlet	17.1	53.8	35.5	57.5	24	186
IDO566	18.2	52.6	35.4	58.0	24	184
SX1502B	14.7	55.4	35.1	55.7	21	188
Jefferson	17.9	51.1	34.5	58.7	22	186
Tara	17.5	51.0	34.2	58.1	23	184
IDO545	14.9	53.1	34.0	58.6	23	185
Saxon	16.2	50.3	33.3	57.0	23	186
Hollis (WA007859)	17.0	47.8	32.4	58.6	26	185
IDO557	14.8	47.4	31.1	58.2	20	185
Hard White Spring Wheat						
Idaho 377s	14.2	62.0	38.1	59.1	24	185
GM40003	15.8	57.3	36.6	59.7	24	184
Lolo	14.4	57.5	35.9	59.2	22	186
Winsome	15.1	54.5	34.8	58.2	21	187
Blanca Grande	18.2	50.0	34.1	60.1	21	184
WA7900	13.6	52.4	33.0	58.8	24	185
GM40002	16.6	48.1	32.3	58.8	23	183
Pristine	13.7	51.0	32.3	60.7	23	183
Macon (WA7899)	13.6	50.3	31.9	57.5	22	185
Klasic	13.9	48.9	31.4	57.3	18	184
Plata	15.8	45.3	30.5	59.1	20	185
Spring Durum Wheat						
GM90014	14.7	47.2	31.0	60.7	21	185
Kronos	14.1	47.0	30.6	59.2	21	184
GM90003	13.2	46.2	29.7	59.3	21	186
Utopia	15.1	44.3	29.7	58.0	21	185
GM90005	9.4	47.4	28.4	59.3	23	186
GM90002	14.0	42.5	28.3	60.5	21	185
Matt	14.8	40.4	27.6	58.0	20	184
Average	15.1	51.5	33.5	58.4	22	185

Table 21. Agronomic data for spring wheat at Ririe, dryland, 2002.

	------Yield (bu/A)------			Test Wt.	Height	Date Head
Variety	**2000**	**2001**	**2002**	**lb/bu**	**in.**	**from Jan. 1**
Soft White Spring Wheat						
Treasure	24.2	20.8	17.9	56.7	18	183
Alpowa	23.4	20.6	17.9	57.8	18	181
Jubilee	20.5	20.5	17.3	57.8	18	182
Whitebird	23.7	20.7	16.9	58.5	17	182
Eden (WA7902)	---	19.1	16.8	58.9	17	181
Alturas (ID0526)	23.4	20.4	16.6	56.2	17	181
Penawawa	21.1	17.5	16.2	55.1	18	182
WA007905	---	---	16.1	56.5	21	181
Zak	24.3	21.6	16.0	58.4	17	183
IDO556	---	16.5	15.8	59.1	16	182
Average	22.9	19.7	16.7	57.5	18	182
LSD.10	2.9	1.0	2.4	0.9	2	0
CV%	12.0	4.9	13.2	1.2	8	0

Table 21 (cont'd). Agronomic data for spring wheat at Ririe, dryland, 2002.

	------Yield (bu/A)------			Test Wt.	Height	Date Head
Variety	**2000**	**2001**	**2002**	**lb/bu**	**in.**	**from Jan. 1**
Hard Red Spring Wheat						
IDO566	---	---	18.2	56.4	19	178
Jefferson	18.8	17.9	17.9	58.0	17	180
Hank	21.1	18.3	17.8	56.4	18	178
Tara	20.3	16.4	17.5	56.7	18	178
Rick	19.8	19.3	17.4	55.9	19	180
Scarlet	---	20.6	17.1	56.5	19	182
Hollis (WA007859)	---	---	17.0	57.4	20	180
Iona	17.8	19.3	16.6	58.3	18	182
Saxon	---	---	16.2	54.9	19	181
SX1501B	---	---	15.2	57.8	14	185
IDO545	19.4	19.1	14.9	57.8	18	180
IDO557	---	18.5	14.8	56.5	16	180
SX1502B	---	---	14.7	54.7	17	184
SX1503B	---	---	14.5	55.0	14	184
Zeke	18.1	15.7	14.1	53.2	17	178
WB936	16.8	17.2	13.8	57.5	18	178
Hard White Spring Wheat						
Blanca Grande	---	---	18.2	59.0	17	177
GM40002	---	15.8	16.6	56.7	20	176
Plata	---	---	15.8	57.3	18	180
GM40003	---	---	15.8	57.7	20	178
Winsome	18.5	19.3	15.1	56.7	17	182
Lolo	19.5	21.2	14.4	58.1	19	181
Idaho 377s	24.1	20.7	14.2	57.6	20	180
Klasic	16.8	11.5	13.9	54.4	16	177
Pristine	20.5	14.9	13.7	59.7	19	176
WA7900	---	18.3	13.6	57.6	19	180
Macon (WA7899)	---	18.0	13.6	55.7	17	180
Spring Durum Wheat						
Utopia	16.6	14.2	15.1	56.9	17	179
Matt	---	12.2	14.8	56.9	17	178
GM90014	---	---	14.7	60.4	16	179
Kronos	16.6	12.4	14.1	58.5	17	178
GM90002	---	---	14.0	60.1	16	180
GM90003	---	---	13.2	57.8	17	181
GM90005	---	---	9.4	58.9	17	182
Average	19.0	17.2	15.1	57.1	18	180
LSD.10	2.7	1.3	1.8	0.6	2	1
CV%	13.2	6.7	11.5	1.1	8	0

Table 22. Agronomic data for spring wheat at Soda Springs, dryland, 2002.

	------Yield (bu/A------			Test Wt.	Height	Date Head
Variety	**2000**	**2001**	**2002**	**lb/bu**	**in.**	**from Jan. 1**
Soft White Spring Wheat						
Alpowa	49.2	52.8	60.1	61.1	26	191
Alturas (ID0526)	36.3	52.2	59.7	59.4	25	190
Jubilee	51.6	51.7	57.4	60.4	26	191
Penawawa	42.8	49.3	57.0	59.7	25	191
Zak	48.1	49.5	56.7	59.9	25	192
Whitebird	45.7	49.5	56.4	59.9	26	191
IDO556	---	47.7	56.4	60.8	23	191
WA007905	---	---	55.8	60.7	29	191
Treasure	46.4	51.4	50.8	58.4	25	189
Eden (WA7902)	---	50.7	50.6	60.4	25	191
Average	45.7	50.5	56.1	60.1	25	191
LSD.10	6.3	5.0	5.1	0.6	2	2
CV%	9.3	9.3	8.4	0.9	6	1

Table 22 (cont'd). Agronomic data for spring wheat at Soda Springs, dryland, 2002.

	------Yield (bu/A------			Test Wt.	Height	Date Head
Variety	2000	2001	2002	lb/bu	in.	from Jan. 1
Hard Red Spring Wheat						
SX1501B	---	---	61.3	57.6	22	193
SX1503B	---	---	60.2	54.6	21	194
WB936	33.8	39.0	59.2	58.4	25	190
Zeke	35.3	42.2	58.6	57.6	27	190
Hank	32.6	44.3	57.3	58.4	26	190
SX1502B	---	---	55.4	56.6	25	192
Rick	38.9	42.4	54.6	60.0	28	191
Iona	33.1	36.6	54.4	60.0	27	190
Scarlet	---	38.3	53.8	58.5	29	191
IDO545	29.7	32.9	53.1	59.4	27	190
IDO566	---	---	52.6	59.6	28	190
Jefferson	31.6	37.1	51.1	59.5	27	191
Tara	31.6	37.8	51.0	59.6	29	190
Saxon	---	---	50.3	59.1	26	190
Hollis (WA007859)	---	---	47.8	59.7	31	190
IDO557	---	32.4	47.4	59.9	25	190
Hard White Spring Wheat						
Idaho 377s	40.9	39.2	62.0	60.7	27	190
Lolo	37.6	42.0	57.5	60.3	26	191
GM40003	---	---	57.3	61.8	27	189
Winsome	39.7	45.0	54.5	59.7	25	191
WA7900	---	37.1	52.4	60.0	28	190
Pristine	33.0	34.8	51.0	61.6	28	190
Macon (WA7899)	---	38.0	50.3	59.3	27	190
Blanca Grande	---	---	50.0	61.2	25	190
Klasic	21.9	37.3	48.9	60.2	20	190
GM40002	---	---	48.1	60.8	26	189
Plata	---	---	45.3	61.0	22	191
Spring Durum Wheat						
GM90005	---	---	47.4	59.7	28	190
GM90014	---	---	47.2	61.0	25	190
Kronos	29.7	30.4	47.0	59.8	24	189
GM90003	---	---	46.2	60.8	25	190
Utopia	29.9	36.3	44.3	59.2	24	190
GM90015	---	---	43.1	58.5	23	190
GM90002	---	---	42.5	60.9	26	189
Matt	---	32.8	40.4	60.6	23	190
Average	33.3	37.8	51.5	59.6	26	190
LSD.10	11.0	3.3	3.6	0.6	1	0
CV%	3.8	8.4	6.6	1.0	4	0

SPRING BARLEY-SOUTHCENTRAL AND SOUTHEASTERN IDAHO, 2002

Table 23. Agronomic data for spring barley at Twin Falls and Rupert, combined, 2002.

Variety	------Yield (bu/A)------ Twin Falls	Rupert	Average	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging[1] %	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley									
B-99-AL-621	123.0	120.6	121.8	51.2	30	171	20	94	3
Baronesse	120.8	118.5	119.7	51.3	30	173	20	94	4
Xena	111.7	126.9	119.3	51.4	32	171	10	95	4
C61	115.7	116.5	116.1	50.1	28	175	15	94	3
2B97-4299	107.2	124.5	115.9	51.3	32	173	20	94	4
Harrington	108.7	117.9	113.3	51.5	34	172	20	92	5
Merit	110.2	116.1	113.2	51.2	33	174	5	90	6
Criton	108.7	114.1	111.4	50.5	32	170	25	94	3
Moravian 14	102.5	119.8	111.2	52.9	25	168	20	87	8
Galena	102.7	119.2	110.9	51.1	28	174	5	94	4
Bob (WA8682-96)	108.9	112.8	110.8	51.5	32	172	20	92	4
Valier	110.7	110.9	110.8	50.8	32	173	5	94	4
C46	103.3	116.3	109.8	49.6	25	176	5	94	4
C53	104.5	114.4	109.5	49.4	26	175	10	96	2
C57	105.0	113.8	109.4	49.2	27	176	5	94	4
Bz594-20	104.8	112.4	108.6	50.9	31	168	0	94	4
85Ab2323	106.3	110.1	108.2	51.2	33	172	10	95	3
H3860224	104.7	111.7	108.2	51.9	32	172	10	96	2
Garnet	100.8	113.3	107.1	50.9	33	173	10	95	3
90Ab241	95.1	117.6	106.4	50.9	31	172	10	96	2
C60	101.3	110.8	106.0	50.4	26	176	25	91	6
CDC Bold	101.6	108.5	105.1	50.2	30	172	10	91	6
Klages	101.8	107.9	104.8	51.2	34	175	0	86	7
Calgary	101.5	108.0	104.8	52.3	27	173	5	94	4
SX1201H	95.5	111.9	103.7	51.6	29	171	5	92	5
Moravian 37	105.1	101.4	103.3	51.4	28	174	0	96	2
B1202	98.1	108.4	103.3	51.0	32	171	5	95	4
MT950186	96.1	107.1	101.6	49.8	31	169	5	95	4
Average	105.6	114.0	109.8	51.0	30	173	11	93	4

Table 23 (cont'd). Agronomic data for spring barley at Twin Falls and Rupert, combined, irrigated, 2002.

Variety	------Yield (bu/A)------ Twin Falls	Rupert	Average	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging[1] %	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley									
Creel (93Ab688)	118.8	153.8	136.3	49.9	33	168	50	86	9
UT004467	122.2	145.9	134.1	48.9	34	165	60	76	16
Millennium	121.5	140.6	131.1	49.3	35	164	10	79	15
Steptoe	123.5	128.6	126.1	48.4	34	168	60	89	7
UT95B1216-4087	110.8	135.6	123.2	50.9	34	168	40	90	7
Brigham	113.2	130.1	121.7	46.3	33	165	10	88	8
Legacy	111.5	129.0	120.3	51.2	34	168	50	95	4
Statehood	112.9	127.5	120.2	48.5	35	167	30	90	7
Colter	107.5	131.2	119.4	48.5	33	168	30	84	11
UT95B1480-1632	109.3	119.9	114.6	50.8	33	162	20	93	5
94Ab13449	102.6	112.6	107.6	50.0	34	167	30	91	7
6B95-2482	97.7	116.5	107.1	50.8	35	170	30	95	4
Morex	94.6	119.3	107.0	50.7	36	169	60	86	10
Foster	86.9	107.8	97.4	50.7	34	168	30	97	2
Average	109.5	128.5	119.0	49.6	34	167	36	88	8

[1]Lodging from Rupert only.

Table 24. Agronomic data for spring barley at Twin Falls, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging %	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley									
B-99-AL-621	---	---	123.0	51.5	27	170	0	93	4
Baronesse	150.6	108.4	120.8	52.0	27	171	0	96	2
C61	---	---	115.7	51.1	28	172	0	92	4
Xena	146.6	118.7	111.7	51.9	29	169	0	95	2
Valier	126.9	108.0	110.7	51.4	29	171	0	94	2
Merit	144.5	94.0	110.2	51.9	31	170	0	89	4
Bob (WA8682-96)	---	111.9	108.9	52.1	29	170	20	93	3
Criton	140.3	115.3	108.7	51.2	29	170	10	91	5
Harrington	135.7	103.3	108.7	51.7	30	170	0	91	4
2B97-4299	---	---	107.2	51.9	28	171	10	94	3
85Ab2323	139.0	101.0	106.3	51.8	30	170	0	95	2
Moravian 37	137.9	119.7	105.1	51.5	26	171	0	94	3
C57	---	100.5	105.0	50.6	22	174	0	94	2
Bz594-20	---	---	104.8	51.9	27	167	0	93	3
H3860224	145.0	107.0	104.7	53.3	28	170	0	96	1
C53	---	109.1	104.5	49.9	24	172	10	95	3
C46	---	94.0	103.3	49.5	23	173	0	90	4
Galena	134.5	100.6	102.7	51.8	27	171	0	93	3
Moravian 14	153.5	114.6	102.5	53.7	22	167	0	84	6
Klages	119.3	92.0	101.8	50.7	32	171	0	84	5
CDC Bold	---	---	101.6	51.1	27	170	0	89	4
Calgary	---	---	101.5	52.9	24	171	0	94	2
C60	---	---	101.3	51.0	24	174	30	89	4
Garnet	146.8	98.2	100.8	51.1	29	171	0	92	4
B1202	136.7	89.9	98.1	51.5	28	170	0	93	2
MT950186	---	---	96.1	50.7	28	168	0	93	2
SX1201H	---	---	95.5	52.2	26	170	0	91	3
90Ab241	140.5	86.2	95.1	51.3	29	170	0	95	2
Average	139.9	103.8	105.6	51.5	27	171	3	92	3
LSD.10	10.9	11.5	6.8	0.4	1	1	1	---	---
CV%	7.6	10.6	6.0	0.8	4	0	459	---	---

Table 24 (cont'd). Agronomic data for spring barley at Twin Falls, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley								
Steptoe	136.0	116.2	123.5	49.2	29	168	93	2
UT004467	---	135.2	122.2	48.6	29	161	75	9
Millennium	113.4	127.9	121.5	48.9	30	161	78	7
Creel (93Ab688)	118.9	126.1	118.8	49.4	33	167	97	4
Brigham	132.9	133.4	113.2	46.8	29	163	87	4
Statehood	116.0	117.4	112.9	48.4	28	166	88	4
Legacy	98.6	112.7	111.5	51.0	32	167	95	1
UT95B1216-4087	---	136.6	110.8	50.9	31	168	75	9
UT95B1480-1632	---	133.9	109.3	50.5	30	158	92	2
Colter	122.2	115.3	107.5	48.0	29	167	83	5
94Ab13449	---	---	102.6	49.7	30	167	90	3
6B95-2482	---	---	97.7	50.6	32	168	96	1
Morex	105.0	119.2	94.6	51.1	34	168	88	3
Foster	---	101.2	86.9	50.7	31	167	96	1
Average	117.9	122.9	109.5	49.6	31	165	88	4
LSD.10	15.5	12.5	8.3	0.5	2	0	---	---
CV%	13.0	9.7	7.1	0.9	5	1	---	---

Table 25. Agronomic data for spring barley at Rupert, irrigated, 2002.

	------Yield (lb/A)------			Test Wt.	Height	Date Head	Lodging	% Plump	%Thin
Variety	2000	2001	2002	(lb/bu)	(in.)	from Jan.1	%	(>6/64)	(<5.5/64)
Two-Row Spring Barley									
Xena	138.3	160.5	126.9	50.8	35	172	20	95	2
2B97-4299	---	---	124.5	50.7	35	176	30	95	2
B-99-AL-621	---	---	120.6	50.9	32	173	40	95	2
Moravian 14	149.0	139.0	119.8	52.2	29	170	40	91	3
Galena	142.2	136.6	119.2	50.5	28	177	10	95	2
Baronesse	148.4	139.4	118.5	50.6	33	174	40	93	3
Harrington	143.3	125.5	117.9	51.3	39	174	40	93	2
90Ab241	131.8	136.4	117.6	50.5	32	174	20	97	1
C61	---	---	116.5	49.1	29	177	30	95	2
C46	---	135.8	116.3	49.6	27	179	10	97	1
Merit	150.0	149.9	116.1	50.6	35	178	10	91	3
C53	---	142.3	114.4	48.8	28	178	10	96	1
Criton	137.9	143.3	114.1	49.9	36	170	40	97	1
C57	---	127.2	113.8	47.9	31	178	10	95	2
Garnet	142.5	144.8	113.3	50.7	37	175	20	98	1
Bob (WA8682-96)	---	150.3	112.8	50.9	36	174	20	91	4
Bz594-20	---	---	112.4	49.9	35	169	0	95	1
SX1201H	---	---	111.9	51.1	32	173	10	94	2
H3860224	147.0	149.6	111.7	50.4	35	174	20	96	1
Valier	127.7	154.1	110.9	50.2	35	175	10	95	1
C60	---	---	110.8	49.8	29	178	20	94	1
85Ab2323	134.3	143.1	110.1	50.7	36	174	20	96	1
Samish23	---	---	108.6	49.7	32	178	0	91	3
CDC Bold	---	162.9	108.5	49.2	32	174	20	94	1
B1202	135.3	148.2	108.4	50.4	35	172	10	96	1
Calgary	---	---	108.0	51.8	29	176	10	95	1
Klages	130.7	118.6	107.9	51.8	36	179	0	88	3
MT950186	---	---	107.1	49.0	34	171	10	96	1
Moravian 37	144.1	145.4	101.4	51.3	30	176	0	98	1
Average	140.2	142.6	113.8	50.4	33	175	18	95	2
LSD.10	8.4	9.9	8.4	1.0	2	1	2	---	---
CV%	5.8	6.6	6.9	1.0	6	1	100	---	---

Table 25 (cont'd). Agronomic data for spring barley at Rupert, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging %	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley									
Creel (93Ab688)	145.4	175.7	153.8	50.4	37	168	50	85	5
UT004467	---	169.7	145.9	49.1	36	168	60	77	7
Millennium	136.6	158.6	140.6	49.7	35	166	10	80	6
UT95B1216-4087	---	166.6	135.6	50.8	38	168	40	90	3
Colter	123.0	158.0	131.2	49.0	37	168	30	85	6
Brigham	132.1	157.6	130.1	45.8	35	167	10	89	3
Legacy	128.0	170.9	129.0	51.3	40	169	50	95	1
Steptoe	117.7	148.8	128.6	47.5	37	168	60	85	6
Statehood	107.3	163.1	127.5	48.5	37	168	30	92	2
UT95B1480-1632	---	164.2	119.9	51.0	37	166	20	94	1
Morex	111.4	146.5	119.3	50.3	42	170	60	83	5
6B95-2482	---	---	116.5	51.0	38	171	30	94	2
94Ab13449	---	---	112.6	50.2	34	167	30	91	3
Foster	---	144.8	107.8	50.7	41	168	30	97	1
Average	125.2	160.4	128.5	49.7	37	168	36	88	4
LSD.10	8.0	9.5	9.5	0.6	3	1	2	---	---
CV%	6.0	5.7	6.9	1.1	8	0	54	---	---

Table 26. Agronomic data for spring barley at Aberdeen, Idaho Falls, and Ashton, combined, irrigated, 2002.

Variety	----------Yield (bu/A)---------- Aberdeen	Id. Falls	Ashton	Average	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging[1] %	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley										
Xena	128.1	120.7	97.7	115.5	54.0	34	183	10	91	6
B-99-AL-621	126.1	114.0	103.2	114.4	53.5	33	183	35	90	6
Baronesse	116.5	112.9	97.5	109.0	53.6	33	184	40	90	6
Criton	128.0	103.4	91.1	107.5	53.2	35	182	25	96	2
Bob (WA8682-96)	103.1	121.4	91.6	105.4	53.5	35	182	20	89	7
Galena	113.1	107.1	94.9	105.0	52.7	31	186	30	91	6
BZ594-20	111.9	117.0	85.9	104.9	54.5	34	181	0	93	4
CDC Bold	107.1	112.2	92.9	104.1	53.8	33	184	5	90	6
Moravian 37	108.8	110.0	91.2	103.3	54.0	30	185	25	95	4
B1202	119.8	99.8	89.0	102.9	52.7	34	184	5	94	3
MT950186	106.2	105.6	95.2	102.3	54.6	35	182	5	94	4
Merit	96.4	115.1	91.2	100.9	52.0	34	186	10	87	8
85Ab2323	102.4	107.2	90.2	99.9	53.9	36	184	20	93	4
Harrington	97.1	120.9	80.5	99.5	52.6	34	185	35	89	8
Moravian 14	117.4	95.8	80.2	97.8	54.4	29	179	10	89	8
H3860224	109.7	101.5	81.6	97.6	53.8	33	185	15	93	4
Valier	100.7	104.6	87.5	97.6	53.8	32	186	15	90	7
2B97-4299	84.2	109.7	91.8	95.2	52.8	36	185	10	91	6
Garnet	98.0	104.7	81.8	94.8	53.3	35	185	15	95	3
Klages	93.8	95.3	79.8	89.6	53.1	35	186	20	80	13
Average	108.4	108.9	89.7	102.4	53.5	34	184	18	91	6

[1]Lodging not taken at Ashton

Table 26 (cont'd). Agronomic data for spring barley at Aberdeen, Idaho Falls, and Ashton, combined, irrigated, 2002.

	----------Yield (bu/A)----------				Test Wt.	Height	Date Head	Lodging[1]	% Plump	% Thin
Variety	Aberdeen	Id. Falls	Ashton	Average	(lb/bu)	(in.)	from Jan.1	%	(>6/64)	(<5.5/64)
Six-Row Spring Barley										
UT004467	132.2	150.2	94.0	125.5	51.0	35	177	0	80	13
Millennium	124.4	135.0	91.4	116.9	50.6	34	177	5	78	14
Creel (93Ab688)	122.4	127.7	91.5	113.9	51.0	38	179	25	83	11
Steptoe	123.3	125.6	91.4	113.4	49.9	37	178	50	91	5
Brigham	122.2	136.3	80.0	112.8	49.2	35	178	10	92	5
Statehood	110.5	132.2	91.5	111.4	49.8	35	179	20	89	8
UT95B1480-1632	105.5	130.2	86.5	107.4	52.6	38	177	0	90	7
UT95B1216-4087	106.6	125.4	84.8	105.6	52.5	37	179	10	89	7
Colter	113.2	115.4	84.4	104.3	50.6	37	178	10	82	12
Lacey	102.4	129.5	80.0	104.0	53.0	38	179	25	93	5
Legacy	110.9	122.0	73.1	102.0	51.6	39	180	50	91	7
94Ab13449	86.6	127.2	86.4	100.1	52.0	35	177	0	91	6
Drummond	86.8	98.8	74.0	86.5	52.2	38	180	35	92	5
6B95-2482	76.0	101.4	78.5	85.3	52.6	37	181	20	95	4
Morex	72.6	90.4	64.1	75.7	51.6	41	180	80	82	12
Foster	59.2	92.0	69.9	73.7	51.9	38	179	35	92	5
Average	103.4	121.2	82.6	102.4	51.4	37	178	23	88	8

[1]Lodging not taken at Ashton.

Table 27. Agronomic data for spring barley, Aberdeen, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging %	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley									
Xena	127.2	106.8	128.1	53.1	37	173	20	94	2
Criton	129.3	102.1	128.0	52.5	41	170	30	97	2
B-99-AL-621	---	---	126.1	52.6	37	173	50	92	3
Calgary	---	---	124.0	52.2	33	177	0	92	3
PB1-95-2R-522	---	110.6	121.1	54.0	39	173	10	93	3
C53	---	106.2	120.9	48.4	33	176	20	88	4
B1202	120.6	100.1	119.8	51.3	39	175	10	93	3
Moravian 14	113.0	99.4	117.4	53.5	36	172	20	91	2
Baronesse	143.0	102.6	116.5	52.9	40	175	60	94	2
C61	---	---	116.2	49.4	36	177	30	86	5
Bancroft	123.8	88.9	113.3	52.0	38	176	50	89	4
Galena	132.1	109.5	113.1	50.7	39	177	60	88	4
C46	---	96.7	112.4	51.1	33	177	40	89	3
Bz594-20	---	119.5	111.9	53.5	38	170	0	95	2
C60	---	---	111.8	50.5	35	179	50	91	2
H3860224	127.8	111.1	109.7	53.1	41	176	30	96	2
Moravian 37	136.3	103.5	108.8	52.8	35	177	40	95	1
CDC Bold	---	116.7	107.1	52.8	36	175	10	92	3
MT950186	---	---	106.2	52.5	42	172	0	95	2
SX1201H	---	---	106.2	52.4	40	175	30	90	3
Bob (WA8682-96)	---	111.2	103.1	53.1	39	173	20	91	4
85Ab2323	123.3	103.9	102.4	52.3	42	174	40	93	3
C57	---	89.7	101.4	47.2	30	178	40	91	3
Valier	134.6	115.8	100.7	52.8	39	177	20	94	2
Camas	118.1	105.3	98.7	53.6	36	173	0	94	2
90Ab241	136.7	96.2	98.5	52.3	36	176	20	97	1
Garnet	121.9	108.7	98.0	51.9	42	175	20	96	1
Harrington	124.9	101.8	97.1	51.5	40	176	50	87	4
Merit	124.0	102.8	96.4	50.2	41	176	20	88	5
Klages	113.8	77.7	93.8	51.4	42	178	40	62	17
2B97-4299	---	---	84.2	52.1	41	177	20	93	2
Spring Triticale									
37812	---	---	103.0	54.7	33	169	0	85	6
Average	126.5	103.6	109.4	51.9	38	175	27	91	3
LSD.10	9.4	9.4	9.1	0.9	2	1	2	---	---
CV%	7.1	8.7	7.9	1.6	4	1	64	---	---

Table 27 (cont'd). Agronomic data for spring barley, Aberdeen, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging %	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley									
UT004467	---	152.4	132.2	49.5	39	168	0	74	8
Millennium	115.3	123.5	124.4	49.4	40	167	10	81	5
Steptoe	118.8	145.4	123.3	49.3	45	168	60	93	2
Creel (93Ab688)	121.6	133.1	122.4	49.8	44	168	10	89	3
Brigham	124.6	132.3	122.2	48.2	39	167	0	93	2
Colter	130.4	144.8	113.2	49.7	44	167	0	85	5
Century	115.6	120.1	112.4	49.7	43	167	20	95	2
Legacy	94.9	120.1	110.9	50.0	45	170	60	89	1
Statehood	117.1	125.4	110.5	48.6	40	168	10	93	2
UT95B1216-4087	---	132.8	106.6	51.3	42	168	0	93	2
UT95B1480-1632	---	136.5	105.5	51.8	44	168	0	95	1
Lacey	---	---	102.4	52.1	44	168	20	96	1
Drummond	---	---	86.8	51.1	45	170	30	96	1
94Ab13449	---	---	86.6	49.9	39	167	0	92	2
6B95-2482	---	---	76.0	51.4	44	170	20	97	1
Morex	77.0	111.6	72.6	50.6	48	170	70	86	3
Foster	91.8	108.9	59.2	50.3	45	168	20	92	2
Average	110.7	129.8	104.0	50.2	43	168	19	91	3
LSD.10	15.8	19.2	11.4	0.6	1	1	1	---	---
CV%	13.9	14.0	10.3	1.2	3	0	37	---	---

Table 28. Agronomic data for spring barley at Idaho Falls, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging %	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley									
Bob (WA8682-96)	---	131.4	121.4	52.5	35	180	20	83	7
Harrington	138.9	123.9	120.9	52.4	35	181	20	91	2
Xena	154.6	142.3	120.7	53.2	32	181	0	88	3
Bz594-20	---	139.3	117.0	54.9	33	179	0	94	2
Merit	153.9	134.6	115.1	51.5	34	183	0	84	5
B-99-AL-621	---	---	114.0	52.9	32	180	20	88	4
Baronesse	138.4	128.7	112.9	52.7	31	181	20	86	4
CDC Bold	---	141.2	112.2	53.5	33	181	0	92	2
Moravian 37	136.5	123.0	110.0	53.3	28	183	10	94	1
2B97-4299	---	---	109.7	52.1	36	182	0	92	3
90Ab241	134.9	113.2	109.2	52.5	33	182	0	93	2
85Ab2323	135.6	133.8	107.2	53.7	36	182	0	95	2
Galena	135.8	128.3	107.1	52.4	29	183	0	94	1
MT950186	---	---	105.6	55.1	32	180	10	95	2
Garnet	138.5	132.0	104.7	53.0	34	182	10	97	1
Valier	137.5	144.7	104.6	54.0	33	183	10	93	2
Criton	126.9	136.1	103.4	52.5	35	181	20	96	1
H3860224	161.7	136.9	101.5	53.4	30	182	0	95	2
B1202	114.8	125.9	99.8	52.8	34	182	0	97	1
Moravian 14	129.4	119.2	95.8	53.4	24	176	0	83	5
Klages	139.1	122.5	95.3	53.4	34	182	0	90	2
Average	138.4	130.9	108.9	53.1	33	181	7	91	3
LSD.10	11.7	10.1	9.9	0.6	2	1	1	---	---
CV%	8.1	7.5	8.6	1.0	6	1	144	---	---

Table 28 (cont'd). Agronomic data for spring barley at Idaho Falls, irrigated, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	Lodging %	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley									
UT004467	---	160.5	150.2	51.3	36	172	0	84	5
Brigham	163.7	160.5	136.3	48.8	35	176	20	93	2
Millennium	162.0	147.2	135.0	50.6	35	173	0	76	9
Statehood	153.9	152.2	132.2	50.5	36	176	30	94	1
UT95B1480-1632	---	151.3	130.2	52.1	37	172	0	88	3
Lacey	---	---	129.5	53.6	39	175	30	95	1
Creel (93Ab688)	163.7	150.3	127.7	50.8	38	176	40	80	8
94Ab13449	---	153.3	127.2	52.9	36	174	0	94	2
Steptoe	155.8	150.5	125.6	49.5	35	176	40	87	6
UT95B1216-4087	---	163.7	125.4	51.7	38	176	20	87	3
Legacy	129.7	158.0	122.0	51.9	38	176	40	93	1
Colter	159.0	145.8	115.4	50.5	38	176	20	84	4
6B95-2482	---	---	101.4	52.7	37	177	20	97	0
Drummond	---	---	98.8	52.1	40	176	40	94	1
Foster	---	140.0	92.0	52.7	38	176	50	95	1
Morex	124.8	129.4	90.4	51.4	42	177	90	79	8
Average	151.6	151.0	121.2	51.4	37	175	27	89	4
LSD.10	10.6	17.2	13.9	0.9	2	0	2	---	---
CV%	6.8	11.1	10.7	1.6	6	0	86	---	---

Table 29. Agronomic data for spring barley at Ashton, irrigated, 2002.

Variety	------Yield (bu/A)------ 1999 [1]	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley								
B-99-AL-621	---	---	103.2	55.1	29	195	91	4
Xena	123.0	110.2	97.7	55.8	33	195	92	4
Baronesse	117.7	113.3	97.5	55.1	29	196	90	4
Samish23	---	---	95.5	54.8	26	198	88	4
MT950186	---	---	95.2	56.1	31	193	92	3
Galena	111.6	110.4	94.9	55.1	24	198	91	4
CDC Bold	---	120.1	92.9	55.1	29	196	88	6
2B97-4299	---	---	91.8	54.3	30	197	87	5
Bob (WA8682-96)	---	118.4	91.6	55.0	30	194	92	3
Merit	120.8	114.3	91.2	54.2	28	198	89	4
Moravian 37	---	107.3	91.2	56.0	27	196	94	3
Criton	---	96.5	91.1	54.7	30	195	95	3
85Ab2323	114.5	104.5	90.2	55.6	30	195	91	4
B1202	99.5	110.7	89.0	53.9	29	195	93	3
Valier	---	113.6	87.5	54.5	25	197	82	6
Bz594-20	---	---	85.9	55.0	30	193	90	5
Garnet	98.8	93.2	81.8	54.9	30	198	92	3
H3860224	---	103.6	81.6	54.9	28	198	90	4
Harrington	106.3	98.4	80.5	54.0	28	197	88	4
Moravian 14	106.6	85.1	80.2	56.3	28	190	92	3
Klages	91.6	91.6	79.8	54.4	29	197	87	4
Average	109.0	105.7	90.0	55.0	29	196	90	4
LSD.10	8.2	5.8	5.6	1.0	1	1	---	---
CV%	7.3	5.4	5.8	0.8	5	0	---	---

[1]2000 trial was not harvested.

Table 29 (cont'd). Agronomic data for spring barley at Ashton, irrigated, 2002.

	------Yield (bu/A)------			Test Wt.	Height	Date Head	% Plump	% Thin
Variety	**1999 [1]**	**2001**	**2002**	**(lb/bu)**	**(in.)**	**from Jan.1**	**(>6/64)**	**(<5.5/64)**
Six-Row Spring Barley								
UT004467	---	124.9	94.0	52.0	29	191	81	8
Statehood	125.5	110.5	91.5	50.4	30	193	79	8
Creel (93Ab688)	143.9	108.9	91.5	52.5	31	192	80	8
Steptoe	133.2	115.4	91.4	51.0	32	190	94	2
Millennium	127.3	117.3	91.4	51.8	28	190	77	10
UT95B1480-1632	---	112.1	86.5	54.0	33	189	88	4
94Ab13449	---	---	86.4	53.1	30	191	88	4
UT95B1216-4087	---	116.4	84.8	54.5	32	193	88	4
Colter	137.9	109.1	84.4	51.5	30	191	78	9
Brigham	124.2	111.9	80.0	50.5	30	190	91	3
Lacey	---	---	80.0	53.2	32	193	87	5
6B95-2482	---	---	78.5	53.7	30	194	92	3
Drummond	---	---	74.0	53.3	29	194	87	5
Legacy	---	104.5	73.1	53.0	35	192	91	2
Foster	---	103.7	69.9	52.7	31	194	90	3
Morex	103.6	105.5	64.1	52.9	35	193	81	7
Average	127.9	111.7	82.6	52.5	31	192	86	5
LSD.10	5.5	7.4	4.1	0.5	2	1	---	---
CV%	4.2	6.3	4.6	0.9	5	1	---	---

[1]2000 trial was not harvested

Table 30. Agronomic data for spring barley at Ririe and Soda Springs, combined, dryland, 2002.

Variety	------Yield(bu/A)------ Ririe	Soda Spgs.	Average	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley								
Xena	23.0	70.6	46.8	49.2	22	190	53	25
Bz594-20	22.4	69.4	45.9	50.3	23	191	62	17
Bob (WA8682-96)	20.0	71.6	45.8	49.0	23	192	61	20
MT950186	20.5	69.7	45.1	50.5	22	192	49	31
Camas	19.2	69.2	44.2	49.2	22	193	53	29
Moravian 37	15.3	73.0	44.1	48.5	19	192	57	26
B-99-AL-621	21.9	66.2	44.1	48.4	21	192	69	27
Baronesse	21.3	66.6	43.9	48.7	20	192	57	22
85Ab2323	21.0	63.7	42.3	48.7	21	192	60	18
Criton	21.2	63.2	42.2	48.5	21	193	68	14
PB1-95-2R-522	17.6	66.4	42.0	50.6	20	192	52	27
Bancroft	17.1	66.5	41.8	47.9	22	194	58	24
Hector	20.1	63.3	41.7	48.3	24	192	51	29
Targhee	16.6	64.5	40.5	48.1	22	192	55	24
B1202	17.4	63.3	40.4	46.8	20	192	49	34
Valier	19.0	61.2	40.1	49.7	21	192	47	33
90Ab241	19.0	58.9	39.0	47.8	20	193	67	16
CDC Bold	16.5	59.0	37.8	48.4	18	193	48	33
Merit	14.5	60.8	37.6	47.7	21	192	61	19
H3860224	17.6	56.8	37.2	47.8	20	193	58	23
Garnet	16.4	56.6	36.5	47.7	20	193	62	21
Harrington	17.0	53.6	35.3	48.2	21	193	49	30
2B97-4299	14.1	53.7	33.9	49.1	21	193	59	20
Klages	11.4	55.6	33.5	49.2	21	193	45	34
Average	18.3	63.5	40.9	48.7	21	192	56	25

Table 30 (cont'd). Agronomic data for spring barley at Ririe and Soda Springs, combined, dryland, 2002.

Variety	------Yield(bu/A)------ Ririe	Soda Spgs.	Average	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley								
Steptoe	22.0	87.9	55.0	43.8	25	186	55	26
Century	21.4	78.4	49.9	44.8	26	185	48	36
UT95B1216-4087	21.7	72.6	47.1	44.9	22	187	49	36
UT95B1480-1632	21.3	69.7	45.5	46.7	23	184	52	32
Legacy	21.1	69.4	45.2	45.0	24	187	48	33
Creel (93Ab688)	24.1	65.9	45.0	43.7	21	185	45	36
UT004467	21.4	68.5	44.9	45.8	21	184	37	38
Morex	20.2	68.4	44.3	45.9	24	187	42	42
Brigham	15.2	73.3	44.3	45.8	21	187	58	24
Millennium	20.4	67.2	43.8	45.5	20	184	35	40
Foster	20.7	66.4	43.5	43.6	24	184	54	30
94Ab13449	20.6	65.4	43.0	45.6	21	184	52	32
6B95-2482	22.0	63.3	42.6	46.0	25	187	47	35
Colter	21.2	62.2	41.7	43.4	22	186	45	37
Statehood	18.5	64.0	41.2	43.2	23	186	44	41
Average	20.8	69.5	45.1	44.9	23	186	47	35

Table 31. Agronomic data for spring barley at Ririe, dryland, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley								
Xena	35.1	32.0	23.0	47.1	20	186	24	43
Bz594-20	---	29.4	22.4	48.5	20	188	36	31
B-99-AL-621	---	---	21.9	46.1	17	189	29	45
Baronesse	37.1	26.0	21.3	46.8	17	188	32	38
Criton	32.6	29.0	21.2	47.5	17	190	46	24
85Ab2323	32.7	27.4	21.0	46.8	17	189	35	32
MT950186	---	---	20.5	48.1	18	188	19	54
Hector	31.6	27.9	20.1	46.3	20	188	26	49
Bob (WA8682-96)	---	28.6	20.0	46.4	19	190	34	37
Camas	---	---	19.2	46.7	19	189	25	50
90Ab241	31.3	20.4	19.0	45.0	17	190	42	29
Valier	36.7	30.2	19.0	47.4	18	189	17	56
H3860224	29.5	26.3	17.6	45.1	17	190	32	40
PB1-95-2R-522	---	25.7	17.6	48.6	17	190	26	46
B1202	24.6	22.5	17.4	44.0	16	189	21	58
Bancroft	34.3	26.1	17.1	46.0	19	191	35	41
Harrington	29.9	22.8	17.0	45.4	18	190	23	50
Targhee	32.2	23.9	16.6	46.2	19	189	30	40
CDC Bold	---	27.7	16.5	45.7	15	189	17	58
Garnet	27.7	23.8	16.4	45.0	17	190	34	38
Moravian 37	---	27.9	15.3	46.1	17	190	27	46
Merit	25.8	23.4	14.5	45.1	17	188	38	32
2B97-4299	---	---	14.1	47.6	17	191	34	34
Klages	27.0	22.9	11.4	47.4	17	191	12	62
Spring Triticale								
303	---	---	16.9	51.3	20	179	55	22
61307	---	---	16.6	52.8	21	177	56	19
Average	31.2	26.2	18.2	46.9	18	188	31	41
LSD.10	2.5	2.1	2.0	1.0	2	1	---	---
CV%	7.6	7.6	11.0	1.6	8	0	---	---

Table 31 (cont'd). Agronomic data for spring barley at Ririe, dryland, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley								
Creel (93Ab688)	29.0	26.4	24.1	37.5	19	179	17	63
Steptoe	35.2	26.6	22.0	38.8	21	181	24	47
6B95-2482	---	---	22.0	40.7	21	183	16	63
UT95B1216-4087	---	31.5	21.7	39.5	20	182	13	66
Century	34.6	30.0	21.4	39.4	22	179	15	65
UT004467	---	21.2	21.4	41.2	18	176	14	61
UT95B1480-1632	---	25.7	21.3	41.1	19	178	19	58
Colter	32.8	24.4	21.2	37.7	20	180	16	64
Legacy	---	28.1	21.1	39.9	18	183	20	58
Foster	28.0	25.6	20.7	38.2	19	177	24	54
94Ab13449	---	---	20.6	40.7	17	177	20	56
Millennium	28.2	20.7	20.4	41.2	17	177	13	61
Morex	28.1	24.1	20.2	41.5	20	183	11	74
Statehood	32.8	27.7	18.5	37.6	19	179	12	72
Brigham	32.3	23.0	15.2	42.7	16	184	33	41
Average	31.2	25.8	20.8	39.9	19	180	18	60
LSD.10	2.5	2.2	2.4	1.0	1	2	---	---
CV%	8.2	7.9	10.6	2.4	5	1	---	---

Table 32. Agronomic data for spring barley at Soda Springs, dryland, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Two-Row Spring Barley								
Moravian 37	---	70.1	73.0	50.9	22	194	87	5
Bob (WA8682-96)	---	70.5	71.6	51.6	27	194	88	3
Xena	71.7	64.8	70.6	51.2	25	195	82	6
MT950186	---	---	69.7	53.0	25	195	78	7
Bz594-20	---	75.0	69.4	52.0	25	195	88	3
Camas	61.5	61.0	69.2	51.7	25	196	81	7
Baronesse	59.3	65.0	66.6	50.5	23	195	82	6
Bancroft	63.2	68.3	66.5	49.8	25	196	81	7
PB1-95-2R-522	---	70.4	66.4	52.6	24	195	77	8
B-99-AL-621	---	---	66.2	50.7	25	194	78	8
Targhee	60.4	65.5	64.5	50.0	24	195	80	7
85Ab2323	63.9	68.6	63.7	50.7	25	195	85	4
B1202	50.8	60.0	63.3	49.6	24	195	76	9
Hector	69.0	69.4	63.3	50.4	27	195	76	9
Criton	54.5	65.8	63.2	49.5	24	195	89	4
Valier	57.0	63.0	61.2	52.0	25	195	76	9
Merit	51.9	53.7	60.8	50.3	25	196	83	6
CDC Bold	---	62.8	59.0	51.1	21	196	79	7
90Ab241	58.0	46.0	58.9	50.7	23	196	91	3
H3860224	60.7	63.1	56.8	50.5	24	195	84	6
Garnet	53.2	56.4	56.6	50.5	23	195	89	3
Klages	53.4	52.3	55.6	50.9	25	195	78	6
Samish23	---	---	54.4	50.7	23	195	80	5
2B97-4299	---	---	53.7	50.5	24	195	84	5
Harrington	45.5	52.4	53.6	50.9	24	195	75	9
Spring Triticale								
303	---	---	49.6	50.4	25	190	74	11
61307	---	---	41.2	48.8	25	189	84	6
Average	58.4	63.1	61.8	50.8	24	195	82	6
LSD.10	6.2	7.3	5.7	0.5	1	1	---	---
CV%	10.4	11.2	8.8	1.0	5	0	---	---

Table 32 (cont'd). Agronomic data for spring barley, Soda Springs, dryland, 2002.

Variety	------Yield (bu/A)------ 2000	2001	2002	Test Wt. (lb/bu)	Height (in.)	Date Head from Jan.1	% Plump (>6/64)	% Thin (<5.5/64)
Six-Row Spring Barley								
Steptoe	58.0	83.4	87.9	48.8	28	191	85	5
Century	58.2	73.4	78.4	50.2	30	191	80	6
Brigham	52.4	70.9	73.3	49.0	25	191	82	7
UT95B1216-4087	---	80.4	72.6	50.3	25	192	84	5
UT95B1480-1632	---	77.8	69.7	52.3	27	191	84	5
Lacey	---	---	69.5	50.1	28	191	82	5
Legacy	56.4	77.2	69.4	50.0	30	191	75	8
UT004467	---	77.6	68.5	50.3	25	191	60	15
Morex	44.8	73.7	68.4	50.3	29	191	72	9
Millennium	47.5	65.7	67.2	49.8	24	191	56	18
Foster	38.4	64.4	66.4	49.0	29	191	83	8
Creel (93Ab688)	46.4	76.2	65.9	49.8	24	191	73	9
94Ab13449	---	72.5	65.4	50.4	24	191	84	5
Statehood	52.5	78.2	64.0	48.7	27	192	83	4
Drummond	---	---	64.0	51.5	29	191	83	4
6B95-2482	---	---	63.3	51.3	28	191	78	7
Colter	48.5	74.3	62.2	49.1	25	191	73	9
Average	50.3	74.7	69.2	50.1	27	191	77	8
LSD.10	6.8	6.1	7.6	1.0	2	1	---	---
CV%	13.4	7.7	10.4	1.0	6	0	---	---

2002 YIELDS EXPRESSED AS A PERCENT OF LOCATION AVERAGE

Table 33. 2002 winter wheat yields expressed as a percent of the location average.

	----------Percent Yield----------				
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**
	----------Irrigated----------			-Dryland-	
Soft White Winter Wheat					
91-34302A	98	96	104	94	98
Albion	107	94	---	---	101
Beamer	110	101	103	87	100
Brundage	113	116	95	112	109
Brundage 96	101	113	88	93	99
CDC Falcon	107	104	97	97	101
Daws	116	100	106	118	110
Eltan	---	---	---	135	135
Hubbard	110	97	99	108	104
ID 87-52814A	116	103	107	108	108
ID0576	92	100	81	119	98
ID17113A	101	89	104	115	102
IDO587	98	95	98	92	96
IDO588	100	97	102	97	99
Kmor	---	---	---	105	105
Lambert	104	103	105	90	100
MacVicar	91	99	100	93	96
Madsen	77	105	95	86	91
Malcolm	99	94	103	91	97
Mohler (Bu6W93-477)	95	99	108	91	98
OR941904	74	92	107	79	88
Sprague	---	---	---	119	119
Stephens	94	101	107	99	100
Tubbs (OR939526)	102	99	107	96	101
Weatherford	98	94	98	82	93
Westbred 470	99	108	89	94	98
Location Avg. (bu/A)	115.7	89.4	127.3	42.1	---

Table 33 (cont'd). 2002 winter wheat yields expressed as a percent of the location average.

	----------Percent Yield----------				
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**
	----------	**Irrigated**	----------	**-Dryland-**	
Hard Red Winter Wheat					
Bonneville	---	---	---	106	106
Boundary	98	110	107	106	105
Declo	104	90	103	97	98
Deloris (UT2030-32)	101	108	106	94	102
DW (IDO513)	93	91	93	89	92
Garland	101	99	96	---	98
IDO571	104	106	98	93	100
Manning	---	---	---	97	97
Moreland (IDO517)	102	106	102	100	102
Neeley	92	99	108	100	100
NuFrontier (GM0001)	99	106	98	---	101
NuHorizon (GM0002)	113	103	85	---	100
Promontory	103	104	99	98	101
Residence	106	---	---	---	106
Semper	99	---	---	---	99
Survivor	---	---	---	104	104
Utah 100	112	104	108	103	107
Ute	102	101	93	---	99
Weston	---	---	---	105	105
NuFrontier	99	106	98	113	104
NuHorizion	113	103	85	100	100
Hard White Winter Wheat					
Gary (IDO550)	90	87	103	95	94
Golden Spike	82	76	103	116	94
OR850513-8	99	85	98	84	91
Location Avg. (bu/A)	125.9	114.4	106.2	46.2	---

Table 34. 2002 winter barley yields expressed as a percent of the location average.

	----------Percent Yield----------		
Variety	**Jerome**	**Aberdeen**	**Average**
	----------Irrigated----------		
Winter Barley			
85Ab216	86	86	86
86Ab474	111	94	102
91Ab23	115	101	108
91Ab36	101	108	104
92Ab561	101	112	106
94Ab1269	94	81	88
94Ab1274	83	93	88
97Ab11	99	109	104
Boyer	88	113	100
Eight-Twelve	116	88	102
Mal	---	102	102
ORSTAB-113	106	101	103
ORSTAB-47	94	86	90
ORSTAB-7	104	93	98
Schuyler	102	103	102
Scio	103	103	103
SDM801	98	103	101
Sprinter	98	115	106
Strider	108	108	108
Sunstar Pride	95	102	98
Location Avg. (bu/A)	151.4	162.1	---

Table 35 (cont'd). 2002 spring wheat yields expressed as a percent of the location average.

	----------Percent Yield----------							
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Ririe	Soda Springs	Average
	----------Irrigated----------					-----Dryland-----		
Hard Red Spring Wheat								
Hank	103	101	110	106	108	117	111	108
IDO545	---	---	93	---	---	98	103	98
IDO557	104	100	106	112	95	97	92	101
IDO566	119	94	121	103	98	119	102	108
Iona	103	106	99	101	108	109	106	105
Jefferson	106	103	97	99	106	117	99	104
Rick	99	106	96	99	104	114	106	103
Saxon	95	96	101	110	103	106	98	101
Scarlet	96	114	113	97	100	112	104	105
SX1501B	121	111	116	106	110	100	119	112
SX1502B	107	97	112	112	101	97	108	105
SX1503B	108	96	109	127	82	95	117	105
Tara	101	88	91	100	95	115	99	98
WA007859	87	79	61	92	90	111	93	87
WB936	97	95	103	108	105	91	115	102
Zeke	105	114	106	85	101	92	114	102
Hard White Spring Wheat								
Blanca Grande	103	104	105	100	99	119	97	104
GM40002	104	94	97	89	87	109	93	96
GM40003	96	91	106	87	102	104	111	100
Idaho 377s	115	112	119	112	116	93	120	112
Klasic	95	95	91	97	106	91	95	96
Lolo	113	105	109	97	107	95	112	105
Macon (WA7899)	112	97	90	86	95	89	98	95
ML181,A-1-38	112	98	125	101	---	---	---	109
Plata	104	98	102	106	105	104	88	101
Pristine	105	100	106	98	99	90	99	100
WA7900	101	100	103	95	87	89	102	97
Winsome	109	100	111	108	110	99	106	106
YU995-231W	100	87	86	91	107	---	---	94
Spring Durum Wheat								
GM90002	84	105	86	100	98	92	82	93
GM90003	76	106	74	99	105	87	90	91
GM90005	99	115	99	101	88	62	92	94
GM90014	87	104	99	88	87	97	92	94
GM90015	79	88	70	85	100	---	84	84
Kronos	85	106	106	95	94	93	91	96
Matt	85	100	81	111	101	97	78	93
Utopia	100	103	99	94	107	99	86	98
YU894-75	82	90	102	100	93	---	---	93
Location Avg. (bu/A)	76.4	98.5	79.4	84.1	72.6	15.2	51.5	---

Table 36 (cont'd). 2002 spring barley yields expressed as a percent of the location average.

	----------Percent Yield----------							
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Ririe	Soda Springs	Average
	----------Irrigated----------					-----Dryland-----		
Six-Row Spring Barley								
6B95-2482	89	91	73	84	95	106	91	90
94Ab13449	94	88	84	105	105	99	94	95
Brigham	103	101	118	112	97	73	105	101
Colter	98	102	109	95	102	102	89	100
Creel (93Ab688)	108	120	118	105	111	116	95	110
Drummond	---	---	84	82	90	---	---	85
Foster	79	84	57	76	85	99	96	82
Lacey	---	---	99	107	97	---	---	101
Legacy	102	100	107	101	89	101	100	100
Millennium	111	109	120	111	111	98	97	108
Morex	86	93	70	75	78	97	98	85
Statehood	103	99	107	109	111	89	92	101
Steptoe	113	100	119	104	111	106	126	111
UT95B1216-4087	101	106	103	103	103	104	104	103
UT95B1480-1632	100	93	102	107	105	103	100	101
UT004467	112	114	128	124	114	103	99	113
Location Avg. (bu/A)	109.5	128.5	103.4	121.2	82.6	20.8	69.5	---

Table 37 (cont'd). Percent protein and kernel hardness for winter wheat, 2001.

	---------- Percent protein (12% mb) ----------					---------- Kernel Hardness (0-100) ----------				
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**
Hard Red Winter Wheat										
Bonneville	---	---	---	13.7	13.7	---	---	---	48.5	48.5
Boundary	9.0	12.6	10.0	12.4	11.0	51.2	50.5	54.2	48.6	51.1
Declo	9.4	13.7	12.4	13.5	12.3	53.5	51.2	60.7	51.7	54.3
Deloris (UT2030-32)	11.3	13.2	11.8	12.9	12.3	60.3	52.1	55.4	49.1	54.2
DW (IDO513)	---	---	10.0	13.5	11.8	---	---	64.6	54.1	59.4
Garland	11.5	13.7	10.6	---	11.9	51.5	45.4	53.1	---	50.0
Manning	---	---	---	13.2	13.2	---	---	---	57.5	57.5
Moreland (IDO517)	11.8	13.2	11.4	13.2	12.4	49.4	50.3	57.2	43.4	50.1
Neeley	11.6	14.1	10.4	13.4	12.4	51.9	52.9	61.1	53.4	54.8
Pillar (BZ9W88-703)	10.2	13.2	12.0	14.5	12.5	58.8	50.4	55.0	55.7	55.0
Promontory	10.6	13.2	10.3	12.8	11.7	60.8	50.2	54.3	49.8	53.8
Survivor	---	---	---	13.8	13.8	---	---	---	55.4	55.4
Utah 100	10.7	13.2	9.3	14.1	11.8	62.7	56.7	69.6	59.2	62.1
Ute	9.4	12.5	10.8	---	10.9	50.9	51.1	56.7	---	52.9
Weston	---	---	---	13.3	13.3	---	---	---	36.5	36.5
Hard White Winter Wheat										
Gary (IDO550)	---	---	9.0	12.4	10.7	---	---	52.9	53.9	53.4
Golden Spike	11.9	13.9	8.5	13.0	11.8	52.6	46.8	53.7	48.6	50.4
NuFrontier (GM10001)	10.2	12.4	9.9	12.2	11.2	48.2	45.7	49.7	45.3	47.2
NuHorizion (GM10002)	9.8	13.0	10.8	13.1	11.7	46.4	47.8	55.6	43.1	48.2
Nuwest	11.6	14.1	12.6	13.7	13.0	55.3	50.6	58.2	45.7	52.5
OR850513-8	11.5	13.3	10.9	13.0	12.2	60.6	58.9	56.5	46.8	55.7
OR941044	10.4	13.0	10.1	13.1	11.7	65.7	65.7	75.6	67.8	68.7
Average	10.7	13.3	10.6	13.2	12.1	55.0	51.6	58.0	50.7	53.3

Table 38 (cont'd). Percent protein for spring wheat, 2001.

	---------- Percent Protein (12%mb) ----------								
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Fairfield	Ririe	Soda Springs	Average
Hard Red Spring Wheat									
Amidon	---	---	---	---	---	13.6	15.0	14.5	14.4
Bannock	---	---	---	---	---	10.3	15.0	14.6	13.3
Hank	13.7	13.0	12.8	14.1	10.1	13.5	15.9	14.3	13.4
HJ98	---	---	---	---	---	14.1	15.2	14.3	14.5
IDO545	---	12.6	12.5	---	---	14.0	15.3	16.6	14.2
IDO557	13.3	12.1	12.9	13.3	8.8	13.5	15.0	14.7	13.0
Iona	12.4	11.4	12.6	13.8	10.1	13.8	15.1	14.9	13.0
Jefferson	13.2	12.1	12.6	13.0	10.5	14.0	15.7	15.0	13.3
Probrand 751	13.6	12.6	11.8	13.0	9.5	---	13.8	13.7	12.6
Rick	12.6	10.9	11.5	12.1	9.3	---	13.8	13.6	12.0
Scarlet	13.2	11.0	12.6	13.0	9.6	13.6	15.1	14.9	12.9
SDM50040	13.5	12.1	11.8	12.9	9.9	13.4	15.1	13.8	12.8
Sunstar King	14.1	12.1	12.2	13.6	11.4	13.7	16.8	14.9	13.6
Sylvan	---	---	11.3	---	---	13.8	14.3	16.0	13.9
Tara	14.0	12.1	11.8	14.2	11.2	14.3	17.0	15.1	13.7
WA7839	13.5	12.9	12.8	13.5	11.2	14.8	16.5	14.3	13.7
WB926	---	---	---	---	---	14.8	16.7	16.4	16.0
WB936	15.0	13.0	12.9	14.4	11.1	13.7	17.1	14.7	14.0
Zeke	13.3	12.1	11.4	12.9	9.8	13.8	15.5	14.3	12.9
Hard White Spring Wheat									
GM40002	13.6	11.9	11.7	14.8	10.5	13.4	16.0	15.2	13.4
GM40019	12.6	11.7	11.4	12.9	10.1	15.5	15.2	15.2	13.1
GM40020	13.4	12.5	12.1	13.6	10.7	12.8	15.8	14.3	13.2
Idaho 377s	13.7	11.2	11.5	13.4	9.8	13.3	15.0	14.9	12.9
IDO560	12.5	10.7	11.7	12.1	8.9	12.1	13.3	13.0	11.8
Klasic	13.3	12.5	11.5	15.2	10.9	---	16.4	14.4	13.5
Lolo	12.9	11.1	12.0	12.7	9.6	13.0	14.4	14.1	12.5
Macon (WA7899)	12.9	11.9	11.8	13.3	10.9	12.6	14.3	13.7	12.7
ML455	12.5	10.6	11.1	12.1	9.7	14.9	13.8	15.3	12.5
Pristine	14.5	12.8	12.1	14.4	10.5	13.3	16.3	13.8	13.5
WA7900	11.3	11.9	12.1	12.9	6.7	12.6	15.0	14.5	12.1
WA7901	12.9	11.2	10.3	12.9	9.1	13.6	14.7	15.0	12.5
Winsome	13.0	11.0	10.4	12.2	8.9	13.3	14.4	14.2	12.2
Average	13.3	11.9	11.9	13.3	10.0	13.6	15.3	14.6	13.2

Table 39 (cont'd). Kernel hardness for spring wheat, 2001.

	----------Kernel Hardness (0-100) ----------								
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Fairfield	Ririe	Soda Springs	Average
Hard Red Spring Wheat									
Amidon	---	---	---	---	---	56.1	51.0	69.2	58.8
Bannock	---	---	---	---	---	38.7	49.5	66.0	51.4
Hank	45.2	51.8	52.2	48.8	49.0	41.1	44.0	62.4	49.3
HJ98	---	---	---	---	---	46.7	46.8	68.9	54.1
IDO545	---	65.1	57.6	---	---	44.0	46.5	78.4	58.3
IDO557	45.7	50.6	48.3	50.5	50.0	44.5	38.8	60.0	48.6
Iona	49.7	55.6	48.1	48.8	49.4	43.8	48.5	62.7	50.8
Jefferson	48.8	59.9	56.4	53.1	57.3	44.6	46.4	62.6	53.6
Probrand 751	32.4	40.8	47.7	41.1	47.2	---	26.9	50.8	41.0
Rick	47.4	61.2	50.9	55.1	51.7	---	47.2	65.5	54.1
Scarlet	56.8	66.0	54.9	59.4	52.5	52.6	44.1	62.7	56.1
SDM50040	53.7	57.0	54.6	58.5	54.9	45.4	49.7	72.4	55.8
Sunstar King	54.1	58.3	54.5	60.2	56.5	48.6	53.2	75.4	57.6
Sylvan	---	---	50.9	---	---	42.8	37.2	54.9	46.5
Tara	41.7	47.7	46.6	47.8	50.3	37.8	37.2	57.8	45.9
WA7839	45.4	53.6	51.0	53.0	48.6	44.4	43.0	54.8	49.2
WB926	---	---	---	---	---	41.9	41.2	60.0	47.7
WB936	47.5	54.2	52.7	54.4	53.0	41.0	46.5	62.7	51.5
Zeke	36.5	46.3	46.7	43.9	38.0	29.0	34.0	51.6	40.8
Hard White Spring Wheat									
IDO560	63.7	66.1	68.5	64.1	64.4	54.3	54.0	76.4	63.9
GM40002	46.7	52.0	44.5	42.1	51.0	37.3	47.1	55.7	47.1
GM40019	49.4	49.9	44.2	50.7	51.4	53.9	48.2	63.3	51.4
GM40020	34.8	43.6	54.4	43.4	43.0	33.9	39.4	51.4	43.0
Idaho 377s	49.9	55.9	50.9	49.6	52.8	42.9	49.2	67.6	52.4
Klasic	34.3	47.7	39.7	43.8	38.8	---	38.6	43.7	40.9
Lolo	52.9	58.3	63.1	50.7	59.4	46.9	48.0	63.6	55.4
Macon (WA7899)	42.9	58.4	52.9	52.4	49.3	39.1	42.1	55.6	49.1
ML455	56.2	68.3	54.7	52.8	47.6	54.3	43.1	69.1	55.8
Pristine	56.7	63.0	61.3	59.1	59.5	52.3	52.3	69.7	59.2
WA7900	46.1	52.2	53.6	52.9	63.0	37.0	42.2	60.4	50.9
WA7901	54.6	56.7	58.2	54.2	55.2	50.8	55.5	63.5	56.1
Winsome	63.6	65.4	65.9	61.5	61.2	55.6	63.5	72.9	63.7
Average	48.3	55.8	53.0	52.0	52.1	44.9	45.5	62.9	51.9

MILLING AND BAKING-SOFT WHITE WINTER WHEAT, 2001.

Table 40. Percent flour protein and flour yield for soft white winter wheat at Jerome, Rupert, Aberdeen, and Ririe, 2001.

	---------- Flour Protein (%) ----------					---------- Flour Yield (%) ----------				
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**
Beamer (BU-6W93-481)	9.5	10.7	8.5	11.4	10.0	63.2	61.4	63.3	64.0	63.0
Brundage	8.6	9.6	7.7	11.0	9.2	61.4	59.4	61.7	59.2	60.4
Brundage 96 (ID-B-96)	8.4	7.2	7.6	---	7.7	59.3	60.0	63.7	---	61.0
Daws	7.8	8.9	7.8	10.8	8.8	59.5	58.8	62.8	59.4	60.1
Eltan	---	---	---	11.0	---	---	---	---	57.2	57.2
Foote	9.0	9.6	8.4	11.8	9.7	60.2	62.4	58.4	57.5	59.6
Hubbard	10.6	10.3	7.6	11.6	10.0	59.6	59.5	62.8	58.5	60.1
ID17113A	7.2	9.2	7.9	12.0	9.1	63.4	62.1	64.8	60.7	62.8
ID87-52814A	7.9	9.2	9.2	10.4	9.2	57.5	62.1	63.7	58.4	60.4
Kmor	---	---	---	10.5	10.5	---	---	---	57.2	57.2
Lambert	9.9	9.2	7.2	11.3	9.4	56.1	60.2	63.4	60.0	59.9
MacVicar	7.6	9.3	7.7	11.2	9.0	60.4	62.1	63.6	58.3	61.1
Madsen	9.4	10.1	8.1	11.8	9.9	62.4	62.5	64.2	59.7	62.2
Malcolm	8.8	8.7	8.0	10.8	9.1	56.5	64.7	62.2	59.7	60.8
Mohler (BU-6W93-477)	8.2	10.1	7.7	11.3	9.3	62.9	61.4	64.0	59.9	62.1
OR941904	8.6	9.7	8.1	11.8	9.6	60.3	62.6	63.5	60.6	61.8
Sprague	---	---	---	10.8	10.8	---	---	---	59.2	59.2
Stephens	9.8	9.6	7.6	11.2	9.6	60.4	61.2	64.1	58.4	61.0
Temple[1]	9.0	10.0	9.2	11.6	10.0	58.9	62.3	63.9	60.3	61.4
Tubbs (OR939526)	8.0	9.0	7.9	11.2	9.0	61.8	60.0	63.3	62.9	62.0
Weatherford	9.1	10.3	7.6	12.2	9.8	60.1	62.4	62.5	57.3	60.6
Westbred 470	9.1	9.5	10.0	11.6	10.1	59.3	62.1	57.2	56.6	58.8
Average	8.8	9.5	8.1	11.3	9.5	60.2	61.4	62.8	59.3	60.6

[1] Winter club wheat.

Table 41. Percent break flour yield and cookie diameter for soft white winter wheat at Jerome, Rupert, Aberdeen, and Ririe, 2001.

	---------- Break Flour Yield (%) ----------					---------- Cookie Diameter (cm) ----------				
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**
Beamer (BU-6W93-481)	33.2	34.1	32.6	35.8	33.9	8.1	8.1	8.5	8.4	8.3
Brundage	37.0	34.0	40.6	38.6	37.6	8.5	8.2	8.7	8.0	8.4
Brundage 96 (ID-B-96)	34.4	34.6	38.8	---	35.9	8.7	8.7	8.9	---	8.8
Daws	35.5	35.7	39.6	36.3	36.8	8.3	8.1	8.4	7.9	8.2
Eltan	---	---	---	37.1	---	---	---	---	7.9	---
Foote	38.0	32.3	30.4	35.9	34.2	8.4	8.2	8.4	8.0	8.3
Hubbard	33.9	32.6	34.5	34.4	33.9	8.1	8.2	8.5	8.1	8.2
ID17113A	36.9	34.1	35.3	42.4	37.2	8.7	8.9	9.0	8.0	8.7
ID87-52814A	34.9	37.6	41.1	38.3	38.0	8.6	8.2	8.6	8.4	8.5
Kmor	---	---	---	41.8	---	---	---	---	8.1	---
Lambert	31.1	34.5	37.8	38.7	35.5	8.2	8.0	8.5	8.2	8.2
MacVicar	31.6	30.3	36.1	33.2	32.8	8.4	8.4	8.2	8.2	8.3
Madsen	31.5	32.4	32.6	33.7	32.6	8.1	7.9	8.4	8.0	8.1
Malcolm	29.5	33.6	30.7	33.4	31.8	8.1	8.3	8.3	8.0	8.2
Mohler (BU-6W93-477)	32.0	29.7	33.5	32.3	31.9	8.4	8.4	8.7	8.0	8.4
OR941904	31.6	34.7	35.7	35.7	34.4	9.0	8.3	8.9	8.1	8.6
Sprague	---	---	---	41.2	---	---	---	---	8.0	---
Stephens	31.3	29.5	34.6	32.6	32.0	8.0	8.3	9.0	8.2	8.4
Temple	31.7	33.4	36.4	40.0	35.4	8.5	8.2	8.3	8.2	8.3
Tubbs (OR939526)	29.0	26.4	30.9	28.9	28.8	8.1	8.4	8.1	7.8	8.1
Weatherford	29.6	29.3	29.8	34.0	30.7	8.1	8.3	8.4	8.1	8.2
Westbred 470	31.4	31.2	31.3	36.0	32.5	8.2	8.2	8.2	8.3	8.2
Average	32.8	32.6	34.9	36.2	34.0	8.3	8.3	8.5	8.1	8.3

MILLING AND BAKING-SOFT WHITE SPRING WHEAT, 2001

Table 42. Percent flour protein for soft white spring wheat, 2001.

	Percent Flour Protein								
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Fairfield	Ririe	Soda Springs	Average
Alpowa	8.8	8.5	8.1	9.3	7.1	9.4	11.0	9.5	9.0
Alturas (IDO526)	9.0	8.6	8.2	9.3	6.9	9.7	10.9	9.8	9.1
Centennial	9.2	8.8	8.4	9.4	7.6	9.3	10.9	9.7	9.2
Challis	8.6	8.5	8.2	9.2	6.8	9.8	10.1	9.9	8.9
Eden (WA7902)	9.1	8.6	8.2	8.7	7.2	10.0	9.6	9.4	8.9
Fieldwin	8.8	7.9	8.1	9.1	7.6	10.0	11.4	9.8	9.1
IDO556	9.8	9.8	8.8	9.9	7.8	10.8	11.5	10.1	9.8
Jubilee	7.9	8.1	8.2	8.9	6.8	9.2	10.1	9.3	8.6
ML042-29,3	8.9	8.6	8.1	9.1	---	---	---	---	8.7
ML042-409-1,5	9.3	8.2	8.3	9.3	---	---	---	---	8.8
Penawawa	8.7	8.0	8.8	9.9	7.4	9.2	10.9	9.8	9.1
Pomerelle	8.6	8.0	8.3	9.0	6.5	9.4	10.8	9.8	8.8
SDM50042	9.1	8.1	8.2	9.3	---	9.6	11.2	10.3	9.4
Treasure	10.0	7.9	7.8	9.1	6.7	---	11.5	9.8	9.0
WA7884	9.5	8.1	8.0	9.1	7.2	9.7	10.5	9.7	9.0
Whitebird	8.9	8.2	8.2	9.0	7.0	9.3	10.4	9.7	8.8
Zak	9.5	8.1	7.9	9.0	6.6	---	10.9	9.6	8.8
Average	9.0	8.4	8.2	9.2	7.1	9.6	10.8	9.7	9.0

Table 43. Percent flour yield for soft white spring wheat, 2001.

	Percent Flour Yield								
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Fairfield	Ririe	Soda Springs	Average
Alpowa	57.9	61.1	64.0	57.4	61.7	57.7	53.8	58.9	59.1
Alturas (IDO526)	58.4	64.1	67.5	58.1	64.4	61.1	55.5	62.5	61.5
Centennial	57.9	60.9	65.5	56.7	63.2	60.9	57.9	59.2	60.3
Challis	58.5	61.2	66.4	54.7	57.2	59.4	51.9	60.3	58.7
Eden (WA7902)	59.6	64.3	67.2	60.7	58.7	54.7	59.1	61.7	60.8
Fieldwin	57.3	61.1	65.9	56.3	60.7	59.2	53.3	58.5	59.0
IDO556	54.5	60.1	64.0	57.0	62.0	58.3	55.7	60.6	59.0
Jubilee	61.3	62.6	65.8	58.4	63.0	60.7	58.7	62.6	61.6
ML042-29,3	56.7	59.0	63.4	57.6	---	---	---	---	59.2
ML042-409-1,5	56.5	62.3	66.1	60.2	---	---	---	---	61.3
Penawawa	57.0	58.5	61.1	54.1	59.8	55.6	52.7	59.2	57.3
Pomerelle	57.9	62.6	66.1	53.9	62.0	62.0	57.1	59.3	60.1
SDM50042	59.1	62.0	65.5	56.5	---	60.4	56.1	60.0	59.9
Treasure	56.4	63.5	66.7	56.8	59.1	---	56.5	60.2	59.9
WA7884	55.3	57.2	64.6	55.7	61.6	58.1	55.1	56.9	58.1
Whitebird	59.0	63.2	66.9	57.6	64.1	63.1	59.4	61.9	61.9
Zak	54.0	59.5	63.8	54.5	58.8	---	55.4	58.6	57.8
Average	57.5	61.4	65.3	56.8	61.2	59.3	55.9	60.0	59.7

Table 44. Percent break flour yield for soft white spring wheat, 2001.

	---------- Percent Break Flour Yield ----------								
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Fairfield	Ririe	Soda Springs	Average
Alpowa	37.9	34.6	34.3	33.7	35.3	38.6	38.1	36.4	36.1
Alturas (IDO526)	35.8	37.7	36.6	30.9	38.6	35.1	34.6	40.1	36.2
Centennial	35.8	35.6	36.5	33.3	39.5	37.3	40.3	37.7	37.0
Challis	35.3	36.5	37.7	34.6	38.5	37.7	34.4	37.9	36.6
Eden (WA7902)	38.9	37.8	39.2	34.5	40.0	36.5	37.5	40.4	38.1
Fieldwin	39.9	35.1	38.3	34.8	34.6	35.0	38.7	35.8	36.5
IDO556	31.2	33.4	37.3	32.9	34.7	36.8	33.9	38.3	34.8
Jubilee	44.1	37.4	39.4	36.7	38.3	44.9	41.5	41.4	40.5
ML042-29,3	35.9	33.1	35.7	35.8	---	---	---	---	35.1
ML042-409-1,5	37.8	37.3	32.3	36.6	---	---	---	---	36.0
Penawawa	36.1	35.7	35.6	35.1	34.2	41.6	35.1	40.2	36.7
Pomerelle	36.7	38.2	39.2	36.3	41.2	38.9	37.4	40.9	38.6
SDM50042	39.8	41.0	36.2	37.6	---	40.0	40.3	39.0	39.1
Treasure	41.3	39.1	40.0	34.9	41.0	---	39.5	41.6	39.6
WA7884	39.8	39.9	37.9	36.8	37.0	43.2	42.7	40.5	39.7
Whitebird	42.0	40.2	40.3	38.9	39.0	42.9	42.2	42.9	41.1
Zak	41.9	41.2	42.9	37.1	38.6	---	40.8	41.3	40.5
Average	38.2	37.3	37.6	35.3	37.9	39.1	38.5	39.6	37.8

Table 45. Cookie Diameter for soft white spring wheat, 2001.

	---------- Cookie Diameter ----------								
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Fairfield	Ririe	Soda Springs	Average
Alpowa	8.3	8.6	8.6	7.8	8.1	8.0	7.9	7.9	8.2
Alturas (IDO526)	8.4	8.4	8.4	8.3	8.5	8.1	8.0	8.7	8.4
Centennial	8.5	8.5	8.6	8.1	8.7	8.2	7.9	8.1	8.3
Challis	8.4	8.5	9.0	8.2	8.4	7.9	7.9	8.4	8.3
Eden (WA7902)	8.5	8.6	8.5	8.2	8.7	8.0	8.3	8.6	8.4
Fieldwin	8.3	8.4	9.0	8.5	8.3	7.8	7.8	8.1	8.3
IDO556	8.7	8.6	8.8	8.4	8.7	8.0	8.2	8.4	8.5
Jubilee	8.9	8.9	9.0	8.7	8.6	8.4	8.2	8.5	8.7
ML042-29,3	8.6	8.5	8.5	8.0	---	---	---	---	8.4
ML042-409-1,5	8.6	8.9	8.9	8.3	---	---	---	---	8.7
Penawawa	8.7	8.2	8.5	8.2	8.4	7.7	8.0	8.2	8.2
Pomerelle	8.6	8.6	8.5	8.5	8.8	8.5	8.1	8.5	8.5
SDM50042	8.9	8.9	8.6	8.6	---	8.0	8.2	8.2	8.5
Treasure	8.2	8.7	9.2	8.4	8.9	---	8.0	7.7	8.4
WA7884	8.2	8.2	8.1	8.2	8.1	7.9	8.1	8.2	8.1
Whitebird	8.6	9.0	8.4	9.0	8.9	8.4	8.2	8.6	8.6
Zak	8.8	8.7	8.9	8.6	9.0	---	8.5	8.4	8.7
Average	8.5	8.6	8.7	8.4	8.6	8.1	8.1	8.3	8.4

Table 45. Cookie Diameter for soft white spring wheat, 2001.

	---------- Cookie Diameter ----------								
Variety	Twin Falls	Rupert	Aberdeen	Idaho Falls	Ashton	Fairfield	Ririe	Soda Springs	Average
Alpowa	8.3	8.6	8.6	7.8	8.1	8.0	7.9	7.9	8.2
Alturas (IDO526)	8.4	8.4	8.4	8.3	8.5	8.1	8.0	8.7	8.4
Centennial	8.5	8.5	8.6	8.1	8.7	8.2	7.9	8.1	8.3
Challis	8.4	8.5	9.0	8.2	8.4	7.9	7.9	8.4	8.3
Eden (WA7902)	8.5	8.6	8.5	8.2	8.7	8.0	8.3	8.6	8.4
Fieldwin	8.3	8.4	9.0	8.5	8.3	7.8	7.8	8.1	8.3
IDO556	8.7	8.6	8.8	8.4	8.7	8.0	8.2	8.4	8.5
Jubilee	8.9	8.9	9.0	8.7	8.6	8.4	8.2	8.5	8.7
ML042-29,3	8.6	8.5	8.5	8.0	---	---	---	---	8.4
ML042-409-1,5	8.6	8.9	8.9	8.3	---	---	---	---	8.7
Penawawa	8.7	8.2	8.5	8.2	8.4	7.7	8.0	8.2	8.2
Pomerelle	8.6	8.6	8.5	8.5	8.8	8.5	8.1	8.5	8.5
SDM50042	8.9	8.9	8.6	8.6	---	8.0	8.2	8.2	8.5
Treasure	8.2	8.7	9.2	8.4	8.9	---	8.0	7.7	8.4
WA7884	8.2	8.2	8.1	8.2	8.1	7.9	8.1	8.2	8.1
Whitebird	8.6	9.0	8.4	9.0	8.9	8.4	8.2	8.6	8.6
Zak	8.8	8.7	8.9	8.6	9.0	---	8.5	8.4	8.7
Average	8.5	8.6	8.7	8.4	8.6	8.1	8.1	8.3	8.4

MILLING AND BAKING-HARD RED WINTER WHEAT, 2001

Table 46. Percent flour protein and flour yield for hard red winter wheat at Jerome, Rupert, Aberdeen, and Ririe 2001.

	---------- Flour Protein (14%mb) ----------					---------- Flour Yield (%) ----------				
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**
Hard Red Winter Wheat										
Bonneville	---	---	---	13.9	13.9	---	---	---	68.3	68.3
Boundary	7.9	9.8	10.3	12.8	10.2	68.6	67.9	68.6	66.7	68.0
Declo	7.9	10.6	12.7	14.0	11.3	65.4	62.5	64.6	65.0	64.4
Deloris (UT2030-32)	10.3	10.0	11.8	13.6	11.4	71.8	70.7	68.2	70.2	70.2
DW (IDO513)	---	---	10.1	13.8	12.0	---	---	66.7	67.8	67.3
Garland	9.6	10.0	10.6	---	10.1	62.4	61.1	64.8	---	62.8
Manning	---	---	---	13.2	13.2	---	---	---	66.8	66.8
Moreland (IDO517)	9.8	10.0	11.5	13.3	11.2	67.2	64.5	64.7	66.1	65.6
Neeley	10.2	11.0	10.3	13.3	11.2	68.5	64.1	66.4	66.5	66.4
Pillar (BZ9W88-703)	9.1	11.1	11.8	14.3	11.6	62.0	62.3	61.7	61.8	62.0
Promontory	9.1	9.8	10.6	13.2	10.7	69.5	68.2	69.3	68.1	68.8
Survivor	---	---	---	14.2	14.2	---	---	---	68.8	68.8
Utah 100	9.4	9.8	9.6	13.9	10.7	67.4	65.4	66.5	66.0	66.3
Ute	8.1	9.6	10.6	---	9.4	68.1	66.5	69.1	---	67.9
Weston	---	---	---	14.0	14.0	---	---	---	64.4	64.4
Hard White Winter Wheat										
Golden Spike	10.7	10.4	8.5	13.2	10.7	67.9	61.9	69.1	66.7	66.4
IDO550	---	---	8.5	12.2	10.4	---	---	66.8	66.6	66.7
NuFrontier (GM10001)	9.4	9.8	10.0	12.8	10.5	64.6	65.9	65.3	64.5	65.1
NuHorizon (GM10002)	8.7	9.9	11.0	13.4	10.8	66.4	64.6	66.1	64.0	65.3
Nuwest	10.6	10.6	12.7	14.1	12.0	67.3	64.7	68.8	64.9	66.4
OR850513-8	9.8	9.8	11.1	12.8	10.9	67.4	66.5	68.9	67.1	67.5
OR941044	8.5	9.6	9.8	13.2	10.3	66.5	65.9	65.4	66.6	66.1
Average	9.3	10.1	10.6	13.5	11.4	66.9	65.2	66.7	66.3	66.4

Table 47. Bake volume for hard red winter wheat at Jerome, Rupert, Aberdeen, and Ririe, 2001

	----------Bake Volume (cc)----------				
Variety	**Jerome**	**Rupert**	**Aberdeen**	**Ririe**	**Average**
Hard Red Winter Wheat					
Bonneville	---	---	---	1225	1225
Boundary	825	875	925	1100	931
Declo	750	950	1125	1250	1019
Deloris (UT2030-32)	950	900	1150	1350	1088
DW (IDO513)	---	---	975	1300	1138
Garland	900	925	950	---	925
Moreland (IDO517)	1050	1100	1125	1300	1144
Neeley	1000	1000	950	1200	1038
Pillar (BZ9W88-703)	800	975	1000	1150	981
Promontory	975	1000	1025	1200	1050
Utah 100	1000	950	850	1300	1025
Ute	900	900	1025	---	942
Weston	---	---	---	1300	1300
Hard White Winter Wheat					
Gary (IDO550)	---	---	775	1150	963
Golden Spike	1100	1075	850	1150	1044
NuFrontier (GM10001)	950	950	925	1200	1006
NuHorizon (GM10002)	950	1000	1000	1125	1019
Nuwest	1050	1050	1100	1200	1100
OR850513-8	800	750	925	950	856
OR941044	950	775	875	1100	925
Average	933	1004	970	1195	1036

MILLING AND BAKING-HARD RED SPRING WHEAT, 2001

Table 48. Percent flour protein for hard red spring wheat, 2001.

	---------- Flour Protein (14% mb) ----------						
Variety	**Twin Falls**	**Idaho Falls**	**Aberdeen**	**Fairfield**	**Ririe**	**Soda Springs**	**Average**
Hard Red Spring Wheat							
Amidon	---	---	---	12.5	14.2	12.2	13.0
Bannock	---	---	---	11.3	13.6	12.7	12.5
Hank	12.6	12.3	11.0	12.7	15.0	12.5	12.7
HJ98	---	---	---	13.0	13.9	12.4	13.1
IDO545	---	---	10.3	13.0	14.2	14.3	13.0
IDO557	12.3	12.1	11.0	12.6	14.2	13.3	12.6
Iona	11.4	12.4	10.4	12.5	14.2	13.1	12.3
Jefferson	11.6	11.6	10.2	13.3	15.0	12.9	12.4
Probrand 751	12.4	11.9	9.6	---	13.2	12.6	11.9
Rick	10.9	10.4	9.3	---	12.2	11.2	10.8
Scarlet	11.5	11.2	10.1	12.6	14.1	12.5	12.0
SDM50040	12.2	11.7	10.0	12.6	14.1	12.4	12.2
Sunstar King	12.7	12.0	10.3	12.9	15.6	13.0	12.8
Sylvan	---	---	9.2	12.5	13.3	13.2	12.1
Tara	12.7	12.4	9.6	13.4	16.0	13.0	12.9
WA7839	12.1	11.7	10.7	13.5	15.1	12.5	12.6
WB926	---	---	---	13.6	15.1	14.1	14.3
WB936	13.5	13.0	11.1	12.6	15.9	12.4	13.1
Zeke	11.7	11.6	9.8	12.6	14.3	12.2	12.0
Hard White Spring Wheat							
GM40002	11.9	12.6	9.7	12.1	14.7	13.1	12.4
GM40019	11.7	11.5	9.8	14.0	14.2	13.0	12.4
GM40020	12.0	12.1	9.8	11.7	14.4	12.2	12.0
Idaho 377s	11.6	11.4	9.4	12.0	13.3	12.9	11.8
IDO560	11.1	10.6	9.3	10.8	12.1	11.3	10.9
Klasic	12.2	13.4	9.7	---	15.2	12.5	12.6
Lolo	11.3	10.1	9.5	11.7	13.3	12.2	11.4
Macon (WA7899)	11.8	11.6	10.0	11.6	13.2	12.1	11.7
ML455	11.2	10.8	9.0	13.4	12.8	12.9	11.7
Pristine	12.8	12.6	9.6	12.1	14.7	11.4	12.2
WA7900	10.5	11.3	10.0	11.5	14.1	12.1	11.6
WA7901	11.6	11.2	8.5	12.6	12.9	13.0	11.6
Winsome	11.5	10.4	8.1	12.1	15.6	12.3	11.7
Average	11.9	11.7	9.8	12.5	14.2	12.6	12.2

Table 49. Percent flour yield for hard red spring wheat, 2001.

	---------- Percent Flour Yield ----------						
Variety	Twin Falls	Aberdeen	Idaho Falls	Fairfield	Ririe	Soda Springs	Average
Hard Red Spring Wheat							
Amidon	---	---	---	68.8	64.6	65.2	66.2
Bannock	---	---	---	66.4	62.7	62.8	64.0
Hank	62.4	65.3	56.9	65.7	62.1	64.4	62.8
HJ98	---	---	---	65.9	63.0	65.5	64.8
IDO545	---	68.3	---	67.1	61.5	61.4	64.6
IDO557	64.5	69.8	63.0	67.6	62.8	64.1	65.3
Iona	64.2	69.4	61.7	66.5	63.9	64.2	65.0
Jefferson	64.4	70.7	63.3	66.6	64.0	63.7	65.5
Probrand 751	62.6	70.5	61.8	---	62.0	63.7	64.1
Rick	59.0	67.9	59.3	---	60.6	60.7	61.5
Scarlet	64.0	69.1	63.1	67.2	63.8	63.3	65.1
SDM50040	64.5	70.4	62.9	67.8	64.8	66.4	66.1
Sunstar King	64.4	70.7	63.2	67.2	62.9	64.2	65.4
Sylvan	---	68.3	---	65.0	62.2	59.1	63.7
Tara	54.5	69.1	61.9	64.5	61.2	63.7	62.5
WA7839	62.2	68.0	58.3	63.5	61.1	60.7	62.3
WB926	---	---	---	63.3	61.2	59.1	61.2
WB936	64.1	70.4	60.6	64.0	61.1	64.9	64.2
Zeke	61.2	69.5	61.9	62.5	60.4	64.8	63.4
Hard White Spring Wheat							
GM40002	58.2	64.7	60.1	57.6	57.1	59.8	59.6
GM40019	60.7	67.4	61.5	62.2	58.3	59.4	61.6
GM40020	58.9	68.5	59.0	59.5	57.9	61.3	60.9
Idaho 377s	57.8	64.1	56.6	62.5	58.4	59.7	59.9
IDO560	60.4	68.0	60.9	66.1	63.3	64.1	63.8
Klasic	60.3	68.0	62.1	---	61.1	62.1	62.7
Lolo	60.0	65.3	58.4	63.7	62.1	60.6	61.7
Macon (WA7899)	60.7	69.5	64.5	65.0	62.8	65.1	64.6
ML455	62.4	68.7	61.5	64.0	61.3	61.4	63.2
Pristine	61.9	68.5	59.3	66.4	61.3	65.6	63.8
WA7900	64.1	67.6	61.9	66.4	61.4	64.0	64.2
WA7901	60.6	68.2	58.4	65.2	62.0	60.7	62.5
Winsome	61.9	65.6	60.4	64.9	60.4	61.0	62.4
Average	61.5	68.3	60.9	64.9	61.7	62.7	63.4

Table 50. Bake volume for hard red spring wheat, 2001.

	---------- Bake Volume (cc) ----------						
Variety	Twin Falls	Aberdeen	Idaho Falls	Fairfield	Ririe	Soda Springs	Average
Hard Red Spring Wheat							
Amidon	---	---	---	1025	1150	1025	1067
Bannock	---	---	---	1025	1200	1200	1142
Hank	1175	975	1100	1125	1250	1140	1128
HJ98	---	---	---	1100	1250	1125	1158
IDO545	---	825	---	1150	1250	1160	1096
IDO557	1250	1125	1125	1125	1125	1125	1146
Iona	1150	1100	---	1175	1275	1150	1170
Jefferson	1160	1050	1150	1175	1400	1100	1173
Probrand 751	1250	950	1150	---	1225	1140	1143
Rick	1075	900	1025	---	1100	1050	1030
Scarlet	1175	1000	1125	1175	1175	1125	1129
SDM50040	1100	1000	1150	1125	1250	1150	1129
Sunstar King	1150	1025	1025	1150	1200	1200	1125
Sylvan	---	950	---	1100	1150	1140	1085
Tara	1400	1050	1250	1200	1475	1225	1267
WA7839	1225	1150	1100	1225	1400	1160	1210
WB936	1300	1100	1225	1075	1300	1175	1196
WB926	---	---	---	1225	---	1250	1238
Zeke	1125	1050	1100	1100	1225	1100	1117
Hard White Spring Wheat							
GM40002	---	950	1050	1050	1250	1250	1110
GM40019	1250	1000	1125	1175	1300	1225	1179
GM40020	1250	975	1150	1050	1250	1200	1146
Idaho 377s	1075	900	1000	950	1100	1025	1008
IDO560	1100	900	975	1000	1050	1100	1021
Klasic	1250	1050	1275	---	1325	1225	1225
Lolo	1075	850	950	1000	1075	1050	1000
ML455	1150	850	975	1100	1025	1075	1029
Pristine	1150	950	1125	1050	1100	1000	1063
Macon (WA7899)	1300	1000	1125	1125	1125	1175	1142
WA7900	1025	950	1000	1100	1200	1200	1079
WA7901	1100	825	1025	1050	1100	1060	1027
Winsome	1150	725	925	975	1175	1080	1005
Average	1176	971	1089	1100	1209	1138	1118

The '*Idaho Preferred Mix*'

October, 2000 (Revised biennially)

Use of the following varieties could help increase the overall functionality and consistency of Idaho wheat for end users. This listing is not all-inclusive. It is provided as a guide for producers to consider when making planting decisions. Growers are encouraged to contact extension agents and other industry representatives for local agronomic characteristics.

Quality Plus (Q+): Varieties in this group usually have *above average* milling and baking quality.

SWW
- Brundage
- Eltan
- Lewjain
- Rod
- Stephens

SWS
- Jubilee
- Pomerelle
- Treasure
- Wakanz
- Whitebird
- Vanna
- Zak

HWS
- IDO377s
- Klasic

HWW
- Golden Spike
- NuWest

Club
- Rely
- Hiller
- Temple

HRS
- Hank
- Jefferson
- Scarlet
- Tara
- Westbred 936
- Iona
- NK751
- Sunstar II
- Westbred 926

Acceptable Quality (AQ): Most milling and baking attributes of these varieties *are acceptable*, but they are not above average for all properties.

SWW
- Albion
- Cashup
- Hill 81
- Lambert
- Madsen
- Malcolm
- Weatherford

SWS
- Alpowa
- Centennial
- Challis
- Wawawai

Club
- Coda
- Rohde

HRS
- Spillman
- Vandal

HRW
- Boundary
- Findley
- Promontory
- Survivor
- Weston
- Bonneville
- Manning
- Quantum 5442
- Utah 100

- HRS Hard Red Spring, HRW Hard Red Winter, SWW Soft White Winter,
- SWS Soft White Spring, HWS Hard White Spring, HWW Hard White Winter

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