



Kansas Wheat Quality 2001



WEIGHTS, MEASURES AND CONVERSION FACTORS

Weights and Measures and Conversion Factors

Bushel Weights: 1,000 Kilograms Equals: Wheat & Soybeans = 60 lbs.36.7437 bu. Wheat or Soybeans Corn, Sorghum & Rye = 56 lbs. 39.3683 bu. Corn, Sorghum or Rye Barley (grain) = 48 lbs.; Malt - 34 lbs. 45.9296 bu. Barley Oats = 32 lbs.68.8944 bu. Oats Bushels to Metric Tons: Area: Wheat, Soybeans = bu. X .02721555* 1 Acre = .404694 HectaresBarley = bu. X .021772 1 Hectare = 2.4710 Acres Corn, Sorghum, Rye = bu. X .025400 Oats = bu. X .014515 1 Metric Ton Equals: Yields: 2204.622 Pounds (lbs.) Wheat: bu. per acre X 0.6725 22.046 Hundredweight (cwt) = quintals per hectare 10 Quintals Rye, Corn: bu. per acre X 0.6277 = quintals per hectare

* Kansas wheat production as of August 1, 2001 is forecast at 344.4 million bushels (9,373,035 metric tons).

Barley: bu. per acre X 0.5380

= quintals per hectare

Oats: bu. per acre X 0.3587

= quintals per hectare

WHEAT QUALITY 2001



KANSAS AGRICULTURAL STATISTICS SERVICE

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FOREWORD

The Kansas Wheat Commission joins the Kansas Department of Agriculture in presenting this 2001 Wheat Quality Report. This information is of vital interest to wheat producers, as well as domestic and foreign buyers.

The basic quality information is compiled by summarizing data from inspection certificates for railroad car samples of Kansas wheat moving from first point of sale. In addition, truckloads converted to carlot equivalents were included. Determinations of protein percentage, test weight per bushel, and other grade factors were made by the <u>Kansas Grain Inspection</u> <u>Service, Inc.</u>

The Kansas Wheat Quality profile section is a summary of milling quality information by variety for the current year's Kansas wheat crop. Enumerators from Kansas Agricultural Statistics Service made the field collection of samples used in this project. We are indebted to the Department of Grain Science and Industry, Kansas State University, for milling and evaluating laboratory results from the samples tested.

We also want to give a special word of thanks to the wheat farmers throughout Kansas who cooperated in the Objective Yield Survey and permitted wheat samples to be collected.

Eldon J. Thiessen State Statistician Bruce Wilkens, Chairman Kansas Wheat Commission

Copies of this bulletin are available upon request to the Administrator, Kansas Wheat Commission, 2630 Claflin Road, Manhattan, Kansas 66502 or the State Statistician, 632 SW Van Buren, Room 200, P.O. Box 3534, Topeka, Kansas 66601-3534.

This bulletin is also available on the internet at the Kansas Agricultural Statistics Service homepage at http://www.nass.usda.gov/ks/

KANSAS WHEAT QUALITY 2001

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WHEAT SITUATION

World wheat production as of August 1, 2001 is expected to total 567.6 million metric tons (20.9 billion bushels), down 2 percent from a year ago. Total U.S. wheat production, at 54.0 million metric tons, will be down 11 percent from a year ago and will account for about 10 percent of the world total. Winter wheat production in U.S. is estimated at 37.7 million metric tons, or about 70 percent of the total U.S. wheat production. Kansas, with an estimated 9.4 million metric tons of winter wheat, will account for 25 percent of the U.S. winter wheat production. This output represents 17 percent of the total U.S. wheat output and 2 percent of the world total.



WINTER WHEAT PRODUCTION

ACRES OF WHEAT PLANTED BY SIZE GROUP

Kansas farmers with 500 or more acres of wheat planted accounted for 23.0 percent of all wheat farms and represent 64.4 percent of acres planted in the fall of 2000. The total wheat acres planted totaled 9,900,000 acres.

Acres of Wheat Planted per Farm	Number of Farms	Percent of Farms	Acres of Wheat Planted
1-24	2,600	8.0	33,400
25-74	5,900	18.5	247,500
75-199	7,600	23.7	837,100
200-499	8,600	26.8	2,409,000
500-749	3,300	10.2	1,742,800
750-999	1,500	4.7	1,130,800
1.000-1,999	2,200	6.8	2,542,200
2,000-2,999	200	0.9	575,300
3,000 +	100	0.4	381,900
State	32,000	100.0	9,900,000

WHEAT PLANTED IN KANSAS FOR 2001 HARVEST, BY SIZE GROUPS

AVERAGE ACRES PLANTED, BY COUNTY

Hamilton County led the State with an average of 1,181 acres planted per farm, followed by Morton County with 947 acres and Kearney County with 899 acres. Statewide, the average is 309 acres of wheat planted per farm.

Cheyenne 388	Rav 4	vlins 74	Decatur 457	Norton 346	Phillips 294	Smith 422	Jewell 351	Republic 253	Washingt 202	on Mars 14	hall Nema 8 62	aha Brov 2 70	vn Doniph 133	ian 3
Sherman 542	ты 4	omas 80	Sheridan 315	^{Graham} 376	Rooks 413	Osborne 422	Mitchell 582	Cloud 443 Ottawa	^{Сlay} 251	Riley 105	^{Pottawa} 52	Jackson 59 Shawnoo	58 efferson Le	aven V
Wallace 418	Loga 60	in 1	Gove 435	Trego 316	Ellis 293	Russell 378	Lincoln 296 Ellsworth	421 Saline	Dickins 295	Geary 149 Morris	Wabaun 49	86 05300	Douglas 80	53 Johnsor 98
^{Greeley} 887	Wichita 671	Scott 518	Lane 644	Ness 404	Rush 425	Barton 369	384 Rice	399 McPherson 310	Marion	178 Chase	Lyon 116	93	Franklin 134	Miami 72
Hamilton	Kearny	Fin	iney	Hodgeman 411	Pawnee 584 Edwards	Stafford	548 Reno	Harve 27	219 ^{ey} 9	115	Greenwood	113	Anderson 158 Allen	Linn 101
1,181	899	661	Gray	Ford	415	Pratt	337	Sedgwi	ck	Butler 206	98	179	184	Bourbor 96
Stanton 860	Grant 539	Haskell 729	420	418	Kiowa 404	559	Kingman 455	331	_		Elk 93	Wilson 202	Neosho 177	Crawfor 124
Morton 947	Stevens 677	Seward 635	Meade 416	Clark 672	Comanche 606	Barber 626	Harper 696	Sumne 518	ar C	^{owley} 236	Chautauq 119	Montgom 228	Labette 166	Cheroke 321

U.S. WHEAT SUPPLY AND DISAPPEARANCE, 1993-2002

U.S. wheat supplies for the 2001/02 season are expected to be 2,948 million bushels, down 10 percent from last year. Beginning stocks, at 873 million bushels, are down 8 percent from a year ago. Estimated U.S. wheat production as of August 1, at 1,985 million bushels, is down 11 percent from last year. Disappearance is expected to total 2,332 million bushels, compared with 2,390 million bushels for 2000. Domestic use is expected to account for 1,282 million bushels, down 3 percent from the previous year. Exports, forecast at 1,050 million bushels, are 1 percent below a year ago. Carry-over at the end of the crop year is expected to total 616 million bushels, 29 percent below the 2000/01 level.

Year		Supply	-	Di	е	Ending	
Beginning June 1	Beginning Stocks	Production	Total <u>1</u> /	Domestic Use	Exports	Total <u>2</u> /	Stocks May 31
			N	illion Bushels	<u></u>		
1993/94	529	2,396	3,036	1,240	1,228	2,467	568
1994/95	568	2,321	2,981	1,287	1,188	2,475	507
1995/96	507	2,183	2,757	1,140	1,241	2,381	376
1996/97	376	2,285	2,753	1,308	1,001	2,310	444
1997/98	444	2,481	3,020	1,257	1,040	2,298	722
1998/99	722	2,547	3,373	1,385	1,042	2,427	946
1999/00	946	2,299	3,339	1,300	1,090	2,390	950
2000/01	950	2,223	3,263	1,328	1,061	2,390	873
2001/02 <u>3</u> /	873	1,985	2,948	1,282	1,050	2,332	616

U.S. WHEAT SUPPLY AND DISAPPEARANCE, 1993-2002

<u>1</u>/ Includes imports. <u>2</u>/ Totals may not add due to rounding. <u>3</u>/ Preliminary.

U.S. WHEAT SUPPLY & DISAPPEARANCE



Marketing Year	September 1	December 1	March 1	June 1
		Thousand	d Bushels	
1995/96	236,431	167,201	92,753	40,048
1996/97	179,327	109,012	96,564	33,833
1997/98	351,810	244,197	213,301	106,901
1998/99	379,253	271,381	226,800	148,561
1999/00	394,409	282,868	230,645	168,899
2000/01	384,526	274,900	217,771	154,183

KANSAS WHEAT STOCKS

MONTHLY MARKETINGS OF KANSAS WHEAT, 1995-2000

Month	1995-96	995-96 1996-97 1997-9		1998-99	1999-00	5-Year Average <u>1</u> /				
	Percent									
June	5	10	7	13	6	8				
July	33	33	34	23	37	32				
August	15	7	10	10	11	11				
September	13	6	4	9	7	8				
October	8	4	4	8	2	5				
November	3	5	4	4	3	4				
December	9	8	7	7	6	7				
January	6	8	8	6	10	8				
February	3	6	5	3	7	5				
March	3	7	6	8	4	6				
April	1	4	6	4	3	4				
May	1	2	5	5	4	3				

1/ May not add due to rounding.



HIGHLIGHTS OF THE 2001 CROP

The 2001 Kansas wheat crop, as of August 1, 2001 was estimated at 344.4 million bushels, down 1 percent from last year. Wheat was planted on 9.9 million acres for the 2001 crop, up 1 percent from 2000. The acres harvested for grain totaled 8.4 million acres, down1 million acres from last year.

Seeding of the 2001 wheat crop started in early September. However, progress was slow as some producers were waiting for rain before planting. By the middle of September only 4 percent of the crop was seeded and topsoil moisture supplies for nearly three-quarters of the State were rated very short. Scattered rains were received the last half of September through early October. Dry weather returned by mid-October and seeding had progressed to 69 percent complete with 24 percent of the crop emerged. In late October, rain fell across the State with some areas reporting heavy rains. On November 5, 92 percent of the acreage was seeded and 81 percent of the crop had emerged. Seeding continued during November and by the 26th, 98 percent of the acreage was seeded, 92 percent of the crop had emerged, and 55 percent of the crop was rated in good to excellent conditions.

December started out mild but turned very cold by the end of the month. High winds were a concern in the west while most of the eastern half of the State had adequate snow cover during the month. Stands in some areas were thin. During January and February the western half of the State received much needed snow cover.

The winter wheat crop started to break dormancy by the end of February. The condition of the crop decreased from 47 percent good to excellent in December to 30 percent by the first week of March. Freeze damage was reported as 1 percent severe, 11 percent moderate, 19 percent light and 69 percent with no damage.

During March, most of the State received precipitation in the form of rain or snow but by the first of April only 2 percent of the crop was jointing compared to 23 percent for the five-year average. The State received much needed scattered showers throughout April and May. Wheat crop conditions continued to decline during April and May despite the precipitation. By mid-April, some acres were being plowed under due to freeze damage, thin stands, and tillering problems. The wheat crop started to head the last week of April and progressed ahead of normal throughout May. Stripe rust was reported in the southwest, south central, and central districts the last half of May.

Harvest of the 2001 crop began in the south-central part of the State during the second week of June. Harvest was slowed by scattered showers but by the last week of June harvest was ahead of average. Hot, dry weather enabled harvest to progress rapidly and was 99 percent complete on July 8.

Year	PlantedHarvestedYield perAcresAcresAcre		Yield per Acre	Production	Test Weight	Protein <u>1</u> /	Moisture
	1,000		Bushels	1,000 Bu.	Lb./Bu.	Pere	cent
1992	12,000	10,700	34.0	363,800	59.4	12.4	12.6
1993	12,100	11,100	35.0	388,500	59.8	11.4	12.4
1994	11,900	11,400	38.0	433,200	60.3	12.1	11.4
1995	11,700	11,000	26.0	286,000	58.4	12.3	11.1
1996	11,800	8,800	29.0	255,200	60.2	13.3	12.3
1997	11,400	10,900	46.0	501,400	60.6	11.8	11.9
1998	10,700	10,100	49.0	494,900	61.5	11.5	11.2
1999	10,000	9,200	47.0	432,400	60.2	11.5	12.2
2000	9,800	9,400	37.0	347,800	59.9	11.9	11.8
2001	9,900	8,400	41.0	344,400	60.9	12.1	11.8

DOMESTIC UNITS

1/ All protein data shown have been converted to a 12% moisture basis.

METRIC UNITS

Year	Planted Harvested Hectares Hectares		PlantedHarvestedYield perHectaresHectaresHectare		Test Weight <u>1</u> /
	1,C	00 00	Metric Tons	1,000 MT	Kg/HI
1992	4,856	4,330	2.3	9,901	76.5
1993	4,897	4,492	2.4	10,573	77.0
1994	4,816	4,614	2.6	11,790	77.7
1995	4,735	4,452	1.7	7,784	75.2
1996	4,775	3,561	2.0	6,945	77.6
1997	4,614	4,411	3.1	13,646	78.1
1998	4,330	4,087	3.3	13,469	79.2
1999	4,047	3,723	3.2	11,768	77.6
2000	3,966	3,804	2.5	9,466	77.2
2001	4,006	3,399	2.8	9,373	78.5

<u>1</u>/ Kilograms/Hectoliter = 1.28841 X (lbs./bu.).

WHEAT QUALITY DATA - KANSAS GRAIN INSPECTION CERTIFICATES

IMPORTANCE OF WHEAT QUALITY

The quality of wheat as characterized by protein content, strength of gluten, weight per bushel, amount of dockage, grades and grade defects, milling data, and physical dough analysis has an important impact on the use of wheat for flour and, hence, its price in the market place.

This report on wheat quality, issued by Kansas Agricultural Statistics Service, helps farmers appraise the quality of the wheat crop being marketed and aids buyers in locating wheat with the desired characteristics.

Information on wheat protein content, weight per bushel, varieties, and grade defects helps producers of high quality grain obtain better prices. The grain trade, in turn, is in a better position to know the areas in which the quality and gluten strength of wheat meet their requirements and direct their purchases accordingly. Thus, the reports facilitate pricing and marketing of the crop. Publication of wheat quality data by counties and agricultural statistics districts as soon as the new crop comes on the market provides everyone with current information coinciding with the harvest period, thus maximizing benefits to producers, grain buyers, and the wheat industry in general.

The following table shows the grading standards used by the Kansas Grain Inspection Service, Inc. in grading samples of hard red winter wheat. This bulletin is based on a summary of samples graded by the Kansas Grain Inspection Service, Inc.

			Maximum Limits:							
	Minimum			Wheat of Other Classes						
Grade	Weight per Bushel	Heat Damaged Kernels	Damaged Kernels (Total)	Foreign Material	Shrunken and Broken Kernels	Total Defects	Con- trasting Classes	Wheat of Other Classes (Total)		
	Pounds	-			Percent					
1	60.0	0.2	2.0	0.4	3.0	3.0	1.0	3.0		
2	58.0	0.2	4.0	0.7	5.0	5.0	2.0	5.0		
3	56.0	0.5	7.0	1.3	8.0	8.0	3.0	10.0		
4	54.0	1.0	10.0	3.0	12.0	12.0	10.0	10.0		
5	51.0	3.0	15.0	5.0	20.0	20.0	10.0	10.0		

GRADES AND GRADE REQUIREMENTS FOR HARD RED WINTER WHEAT

SAMPLE GRADE: Sample grade is wheat that does not meet the requirements for the grades U.S. Nos. 1, 2, 3, 4, or 5; or contains 31 or more insect-damaged kernels per 100 grams of wheat; or contains 4 or more stones or any number of stones which have an aggregate weight in excess of 0.1 percent of the sample weight, 1 or more pieces of glass, 2 or more crotalaria seeds, 1 or more castor beans, 3 or more particles of an unknown foreign substance or a commonly recognized harmful toxic substance, 1 or more rodent pellets, bird droppings, or equivalent quantity of other animal filth per 1,000 grams of wheat; or has a musty, sour, or commercially objectionable foreign odor except smut or garlic odor; or is heating or otherwise of distinctly low quality.

PROTEIN CONTENT

The average protein content of the 2001 Kansas wheat crop was 12.1 percent, up from last year's 11.9. This year's protein is the same as the 10-year average of 12.1 percent. By district, protein content ranged from 10.6 percent in the east central district to 12.9 percent in the southwest district. Gray led all counties, averaging 13.6 percent protein. Second highest was Finney County, averaging 13.5 percent protein. Protein content by variety from Wheat Objective Yield samples is shown beginning on page 28. See the map below for average protein content by county.





Districts	NW	WC	SW	NC	С	SC	NE	EC	SE	State
Production (000 bu.)	35,000	26,300	49,500	49,100	62,900	79,200	9,100	11,600	21,700	344,400
% Protein					Pe	rcent				
Under 10.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	5.1	10.4	0.9
10.0-10.9	0.6	0.3	0.1	0.0	2.0	12.3	0.0	83.5	59.8	9.9
11.0-11.9	15.8	13.7	6.8	17.9	53.3	38.3	89.7	6.3	29.1	29.1
12.0-12.9	37.6	67.1	54.8	75.9	44.6	45.5	10.3	5.1	0.3	46.7
13.0-13.9	39.2	18.9	36.6	6.2	0.1	3.7	0.0	0.0	0.4	12.5
14.0-Over	6.8	0.0	1.7	0.0	0.0	0.1	0.0	0.0	0.0	0.9
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PROTEIN RANGES OF 2001 KANSAS WHEAT 1/

1/ Protein content adjusted to 12 percent moisture basis.

PROTEIN RANGES OF KANSAS WHEAT

1990-99, 2000, & 2001



TEST WEIGHT

The 2001 Kansas wheat crop averaged 60.9 pounds per bushel, compared with 59.9 pounds for the 2000 crop. The 10-year average for Kansas is 60.1 pounds per bushel. Harvest of the 2001 crop began in the south-central part of the State during the second week of June. Harvest was slowed by scattered showers but by the last week of June harvest was ahead of average. Hot, dry weather enabled harvest to progress rapidly and was 99 percent complete on July 8. By district, test weights fell in a range from 59.5 pounds in the northwest to 62.2 pounds in the northeast district. The southwest district was second highest in test weight at 61.8 pounds. Seward County, with a test weight of 63.2 pounds, was the highest in the State. Stevens County followed at 62.7 pounds. See the map below for average weight per bushel by county.





Districts	NW	WC	SW	NC	С	SC	NE	EC	SE	State
Production (000 bu.)	35,000	26,300	49,500	49,100	62,900	79,200	9,100	11,600	21,700	344,400
lb/bushel					· Per	rcent				
Under 55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55.0-55.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56.0-56.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.0-57.9	5.7	0.4	0.0	0.1	0.0	0.2	0.0	0.0	0.4	0.7
58.0-58.9	22.9	1.3	0.2	1.5	1.6	2.2	0.0	2.5	7.8	4.1
59.0-59.9	42.5	18.4	4.1	8.5	14.1	13.5	0.0	81.0	30.2	17.8
60.0-60.9	23.3	50.9	22.6	32.8	37.9	37.4	0.0	11.4	35.1	32.3
61.0-61.9	4.7	26.8	22.0	43.3	34.4	27.1	17.2	5.1	20.6	26.3
62.0-Over	0.7	2.2	51.1	13.8	12.0	19.6	82.8	0.0	5.9	18.8
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

RANGES OF 2001 TEST WEIGHTS

TEST WEIGHT RANGES OF KANSAS WHEAT

1990-99, 2000, & 2001



County	Samplas	Tes	st Weigh	t	Protei	n Conten	t <u>2</u> /	N	loisture	
and	Tested	Average			Average			Average		
District	2001 1/	Average	2000	2001	Average	2000	2001	Average	2000	2001
2.0.1101	<u> </u>	1990-99			1990-99			1990-99		
CHEYENNE	132	60.3	57.6	59.4	12.4	13.7	13.4	11.1	11.2	10.8
DECATUR	141	60.0	57.3	59.8	12.3	12.8	12.0	11.3	11.4	11.7
GRAHAM	*	59.9	*	*	11.9	*	*	11.4	*	*
NORTON	58	60.1	58.2	61.1	12.1	12.1	12.0	11.4	12.0	11.6
RAWLINS	81	60.1	57.6	59.0	12.2	12.7	12.4	11.0	10.9	11.3
SHERIDAN	*	61.1	57.3	*	12.7	11.8	*	10.5	11.4	*
SHERMAN	378	60.2	58.2	58.9	12.2	13.3	13.3	11.5	11.2	11.0
THOMAS	625	60.1	58.2	59.6	12.4	13.3	12.6	11.3	11.0	11.4
NORTHWEST	1,415	60.2	<u>57.8</u>	<u>59.5</u>	12.3	12.9	12.7	11.3	11.2	11.3
GOVE	164	60.0	59.6	60.6	12.2	12.3	12.5	11.4	11.3	11.8
GREELEY	*	60.7	61.3	*	11.5	11.6	*	11.2	10.3	*
LANE	20	60.2	59.3	60.7	11.8	12.0	12.0	11.5	11.4	11.2
	5	60.6	61.1	59.2	12.0	11.7	12.7	11.1	11.2	11.6
NESS	41	60.2	59.9	60.4	11.8	12.1	12.2	12.0	11.2	11.9
	382	60.4	59.4	60.7	12.0	12.7	12.3	11.5	11.3	11.4
	13	60.4	60.2	61.3	12.1	12.0	11.4	11.6	11.3	12.0
	290	60.7	59.7	59.9	12.2	12.1	12.9	11.5	11.3	11.3
	135	60.9	58.9	61.1	11./	13.0	12.1	11.5	11.0	
CLARK	1,050	<u>60.5</u>	<u> </u>	60.5	11.9	12.2	12.3	11.5	11.1	11.5
	5	60.3	50 /	62.0	12.4	12.8	13.5	11.7	11.2	10.0
	271	60.5	59.4	60.4	12.1	12.0	10.0	11.3	11.2	10.9
GRANT	271	60.8	50.8	62.3	12.4	12.0	12.7	10.0	10.0	10.0
GRAV	03	60.5	59.0	61.6	12.2	12.4	13.5	10.9	10.9	10.9
	49	60.4	59.7	61.5	12.0	12.0	12.0	11.0	10.6	10.8
HASKELL	*	60.4	59.3	*	12.0	12.0	*	11.0	11.5	*
HODGEMAN	*	60.0	59.0	*	12.2	12.0	*	11.8	12.0	*
KEARNY	10	61.1	60.0	61.8	11.3	12.0	13.2	10.8	10.9	10.6
MEADE	192	60.6	59.6	62.3	12.6	12.0	13.0	11.8	12.0	11.4
MORTON	173	60.6	59.8	62.0	12.3	13.0	12.7	10.5	10.9	10.1
SEWARD	100	60.7	60.1	63.2	12.6	12.6	12.4	11.2	11.5	10.8
STANTON	292	60.4	59.9	61.9	12.2	12.9	12.7	10.6	10.3	10.6
STEVENS	60	60.6	60.0	62.7	12.5	12.9	13.0	10.9	11.0	10.5
SOUTHWEST	1,250	60.5	59.6	61.8	12.3	12.8	12.9	11.2	11.3	11.0
CLAY	*	60.1	59.7	*	11.9	11.9	*	11.8	11.9	*
CLOUD	1,148	59.3	60.4	61.2	11.9	11.6	12.1	11.8	12.7	12.3
JEWELL	11	59.9	59.5	60.7	12.1	12.6	12.3	11.7	12.5	12.7
MITCHELL	355	60.1	60.0	61.2	12.1	12.1	12.7	11.7	12.5	12.6
OSBORNE	282	59.8	59.1	60.9	12.3	12.6	12.6	11.7	11.9	12.1
OTTAWA	10	60.0	*	61.0	12.2	*	12.2	11.6	*	12.1
PHILLIPS	79	60.0	58.5	61.0	12.3	12.2	11.9	11.3	11.9	11.5
REPUBLIC	351	59.6	59.5	60.6	12.2	12.6	12.4	11.7	12.2	11.9
ROOKS	57	59.8	57.9	60.5	12.1	12.0	11.8	11.6	12.4	11.9
SMITH	245	60.1	59.1	60.6	12.3	12.2	12.2	11.6	12.2	12.0
WASHINGTON	25	59.4	59.4	62.4	12.0	12.1	12.2	11.9	12.6	12.6
NORTH CENTRAL	2,563	<u>59.8</u>	<u>59.3</u>	<u>61.0</u>	12.2	12.2	12.3	11.7	12.3	12.2
BARION	181	60.1	61.2	60.9	12.7	11.5	12.1	11.9	11.6	12.2
	37	59.9	60.1	60.3	11.7	11.2	11.3	12.2	13.0	12.7
	89	60.4	60.3	60.9	11.9	11.8	12.1	11.9	11.3	11.9
	67	59.8	61.7	61.3	12.3	10.8	11.9	11.8	12.4	12.5
	122	59.4	01.1 *	01.4 *	12.3	11.2	12.0	11.6	11.8	11.9
	400	59.9		60.0	12.3	11.0	11 0	12.0	10.0	10 4
	138	59.8	00.7	00.2	11.7	11.0	11.3	12.1	13.3	12.1
	341	60.2	61.3	61.1	12.7	11.4	11.8	11.9	12.4	12.3
	3/2	60.3	60.5	60.6	12.0	11./	12.0	11.8	10.9	11.9
	89	59.9	01.1 *	01.1 *	12.4	11.5	12.1	11.9	* 11.4	12.4
	4 400	юU.3			12.2		44 0	11.0	40.4	40.0
CENTRAL	1,430	00.1	00.9	0.U0	12.2	11.4	0.11	11.9	12.1	12.2

WEIGHT, PROTEIN, AND MOISTURE

County	Samplas	Tes	st Weight	t	Protei	n Conter	nt <u>2</u> /	N	loisture	
and	Tested	Automotion			Autorogia			Average		
District	2001 1/	Average	2000	2001	Average	2000	2001	Average	2000	2001
		1990-99			1990-99			1990-99		
		50.0		00.7	40.4	40.4		44 7	40.0	
	99	59.8 60.1	61.0	60.7	12.1	10.4	11.4	11.7	12.6	11.2
	15	60.4	61.2	62 5	12.4	12.2	13.1	12.0	117	12.2
	*	59.4	61.2	02.3	12.4	10.9	*	12.0	12.4	12.2
HARVEY	*	60.0	*	*	11.9	*	*	12.2	*	*
KINGMAN	215	60.5	60.9	61.8	11.9	10.6	11.0	11.8	12.8	11.6
KIOWA	117	60.3	60.0	61.2	12.6	11.5	12.1	12.0	12.7	12.4
PAWNEE	608	59.9	60.5	60.8	12.7	12.0	12.4	11.7	11.7	12.1
PRATT	181	60.0	59.9	60.2	12.7	11.4	11.8	11.7	12.6	12.2
RENO	17	60.4	*	61.4	12.3	*	11.3	11.8	*	12.0
SEDGWICK	116	60.3	60.2	60.5	12.1	11.0	11.0	11.7	12.4	12.4
	51	60.3	*	62.6	12.9	*	11.9	11.6	*	12.3
	1 /10	59.5 60 0	60 0	61 2	12.0	10.9	11 E	11.9 11 0	10 0	12 0
	1,419	50.6	*	*	11 0	*	*	11.0 10 /	*	*
BROWN	*	59.0	*	*	11.0	*	*	12.4	*	*
DONIPHAN	*	*	*	*	*	*	*	*	*	*
JACKSON	*	*	*	*	*	*	*	*	*	*
JEFFERSON	*	*	*	*	*	*	*	*	*	*
LEAVENWORTH	*	*	*	*	*	*	*	*	*	*
MARSHALL	29	59.4	60.6	62.2	11.8	11.2	11.8	12.3	12.4	12.8
NEMAHA	*	59.5	*	*	11.9	*	*	12.7	*	*
POTTAWATOMIE	*	60.8	*	*	11.5	*	*	12.0	*	*
RILEY	*	60.4	*	*	12.8	*	*	8.6	*	*
WYANDOTTE	*	59.5	61.0	*	11.3	11.1	*	12.4	12.0	*
	<u>29</u>	<u> </u>	<u>60.6</u>	<u>62.2</u>	<u> </u>	<u> </u>	<u> </u>	12.4	12.4	12.8
	*	60.4	*	*	10.1	*	*	11.0	*	*
	10	60.4 50.8	*	50.3	12.1	*	10.0	11.2	*	125
DOUGLAS	*	58.7	*	*	11.1	*	*	13.8	*	12.5
FRANKLIN	60	60.6	*	59.7	11.4	*	10.7	12.3	*	12.1
GEARY	*	*	*	*	*	*	*	*	*	*
JOHNSON	4	60.2	*	61.2	12.2	*	12.2	11.7	*	11.3
LINN	5	*	*	59.3	*	*	10.4	*	*	12.5
LYON	*	*	*	*	*	*	*	*	*	*
	*	50.0	*	*	*	*	*	*	*	*
NUKKIS	*	59.6	61 F	*	12.1	11 0	*	12.1	12.0	*
SHAWNEE	*	59.7 60.1	01.3	*	11.0 11.8	11.Z *	*	10.1	13.2	*
WABAUNSEE	*	59.6	*	*	12.2	*	*	11.0	*	*
EAST CENTRAL .	79	59.8	61.1	59.7	11.7	11.4	10.6	12.3	12.7	12.2
ALLEN	77	*	59.4	59.8	*	10.1	10.2	*	13.1	12.5
BOURBON	*	*	*	*	*	*	*	*	*	*
BUTLER	*	58.9	*	*	11.7	*	*	12.3	*	*
	100	- -	E0 C	60.2	10.6	10.0	10.6	10.4	10 1	10.6
	108	50.0 50.2	0.0C 60 5	61.3	10.0	10.0	10.0	13.4	13.4	12.0 11 0
	12/	58.0	59.3	60.6	11.7	10.2	10.9	12.1	13.1	12.6
ELK	*	*	*	*	*	*	*	*	*	*
GREENWOOD	*	*	*	*	*	*	*	*	*	*
LABETTE	53	57.8	59.8	59.2	10.4	9.9	10.1	13.1	13.3	12.5
MONTGOMERY	158	58.5	59.3	60.0	11.3	10.0	10.4	13.3	13.1	12.4
NEOSHO	269	58.8	59.9	60.3	11.3	10.2	10.6	13.2	12.9	12.5
WILSON	203	58.9	60.1	60.0	11.5	10.4	11.0	12.9	13.0	12.4
	*	58.1	F0 0	*	11.7	*	*	13.2	*	*
SUUIHEASI	1,229	58.8	59.8	60.4	11.4	10.1	10.7	12.7	13.1	12.3
SIAIE	10,470	60.1	59.9	60.9	12.1	11.9	12.1	11./	11.8	11.8

WEIGHT, PROTEIN, AND MOISTURE

<u>1/Samples tested represent data from inspection certificates of railroad cars (truckloads are converted to carlot equivalents).</u> Su m m a rized data include old crop and new crop wheat moving from first point of sale and inspected by the Kansas Grain Inspection Service, Inc. <u>2/</u>Adjusted to 12 percent moisture.* Not published due to insufficient data or no sample taken, but included in district and State totals.

GRADES, DOCKAGE AND GRADE DEFECTS

Ninety-eight percent of the 2001 wheat carlots sampled averaged number 2 or better, compared with 91 percent for 2000. Wheat grading number 1, at 67 percent, was up 28 points from the 39 percent for 2000. Samples grading number 2, at 31 percent, were down 21 points from 52 percent for 2000. The northeast district of the State had the highest average, with 100 percent of the samples grading number 1. The southwest district was second with 87 percent of the samples grading number 1. The east central had the lowest average grading number 1, with 10 percent. Seventy percent of all samples had less than 0.9 percent dockage, compared with 89 percent in 2000. Total defects, at 1.9, were down from the 2.1 percent in 2000.

Veer	District											
real	NW	WC	SW	NC	С	SC	NE	EC	SE	Slale		
					Grade	No. 1						
4004			- 4									
1994	27	56	/4	28	79	60	/5	70	83	57		
1995	64	28	2	23	3	5	1	48	1	16		
1996	48	73	64	63	60	49	19	40	36	55		
1997	71	80	46	90	90	63	92	77	63	72		
1998	90	92	90	81	91	88	73	80	42	88		
1999	58	73	74	51	63	46	17	39	1	61		
2000	5	34	25	42	88	57	88	99	41	39		
2001	26	80	87	71	78	70	100	10	68	67		
					Grade	No. 2						
1994	67	42	25	53	18	31	23	28	14	36		
1995	33	61	37	55	50	34	43	34	23	43		
1996	38	20	32	30	38	46	45	60	51	38		
1997	20	15	47	7	8	29	8	13	29	23		
1998	9	7	9	18	8	9	27	20	52	11		
1999	35	26	25	38	34	47	78	60	54	34		
2000	49	63	71	51	12	39	12	1	50	52		
2001	68	19	12	26	21	26	0	89	31	31		
					All Other	Grades	-		•	•		
1994	6	2	1	19	3	9	2	2	2	7		
1995	3	11	61	22	47	61	56	18	76	41		
1996	14	7	4	7	2	5	36	0	13	7		
1997	9	5	7	3	2	8	0	10	8	5		
1998	1	1	1	1	1	3	0	0	6	1		
1999	7	1	. 1	. 11	3	5 7	5	1	47	5		
2000	46	3	4	7	0	4	Ő	0	9	9		
2001	6	1	1	3	1	4	Ő	1	1	2		

PERCENTAGE OF KANSAS WHEAT IN EACH GRADE

	Number	Per	cent of Samp	les with Dock	kage	Average D	ockage
Year	of Cars Sampled	Zero	0.1-0.4	0.5-0.9	Over 0.9	of Sam	ples
	<u>1/</u>	Percent	Percent	Percent	Percent	Over 0.9%	All
1994	17,467	0	31	58	11	1.5	0.6
1995	9,879	0	14	59	27	1.7	0.9
1996	14,735	0	20	47	33	2.0	1.1
1997	19,601	0	51	39	10	4.1	0.8
1998	18,190	1	36	56	7	1.3	0.6
1999	12,735	0	47	43	10	1.4	0.6
2000	16,302	0	28	61	11	1.3	0.6
2001	10,470	0	19	51	30	1.4	0.8

KANSAS WHEAT DOCKAGE PERCENTAGES

1/ Includes truckloads converted to carlot equivalents.

GRADE DEFECT PERCENTAGES OF KANSAS WHEAT

Veer	District										
rear	NW	WC	SW	NC	С	SC	NE	EC	SE	Slale	
					Damage	d Kernels					
1994	0.1	0.1	0.1	0.3	0.2	0.2	0.5	0.5	0.4	0.2	
1995	0.1	0.2	0.3	0.7	0.4	0.3	2.6	0.5	0.8	0.4	
1996	0.2	0.2	0.5	0.3	0.3	0.2	1.8	0.5	0.3	0.3	
1997	0.1	0.2	0.2	0.0	0.1	0.2	0.2	0.3	0.1	0.1	
1998	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.7	0.9	0.2	
1999	0.1	0.1	0.3	0.3	0.7	0.6	0.8	0.9	1.8	0.4	
2000	0.1	0.1	0.2	0.2	0.2	0.3	0.1	1.3	0.9	0.2	
2001	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.4	0.1	0.1	
					Foreign	Material					
1994	0.0	0.0	0.0	0.1	0.2	0.3	0.1	0.1	0.1	0.1	
1995	0.0	0.0	0.1	0.2	0.2	0.3	0.1	0.1	0.2	0.2	
1996	0.0	0.0	0.1	0.3	0.2	0.2	0.1	0.1	0.2	0.2	
1997	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	
1998	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	
1999	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	
2000	0.0	0.0	0.1	0.1	0.1	0.2	0.0	0.2	0.1	0.1	
2001	0.0	0.1	0.0	0.3	0.2	0.2	0.0	0.1	0.1	0.1	
				Shru	nken and	Broken Ke	rnels				
1994	2.3	2.3	2.3	2.1	2.0	2.0	1.3	1.5	1.3	2.1	
1995	2.4	2.9	2.8	2.4	2.6	2.9	2.0	2.3	2.9	2.7	
1996	1.7	1.7	1.4	1.5	1.4	1.9	1.2	1.4	1.2	1.6	
1997	1.3	1.5	1.5	0.9	1.0	1.3	0.9	0.9	1.1	1.2	
1998	1.4	1.7	1.9	1.3	1.4	1.6	0.8	1.0	1.2	1.5	
1999	1.6	1.2	1.2	0.9	0.8	1.1	0.9	1.1	1.1	1.1	
2000	2.0	2.1	2.2	1.5	1.5	1.5	1.0	1.1	0.8	1.8	
2001	2.0	2.1	1.5	1.3	1.6	1.7	1.0	1.0	1.0	1.6	
					Total D	efects <u>1</u> /					
1994	2.4	2.4	2.5	2.5	2.4	2.5	1.9	2.1	1.8	2.4	
1995	2.5	3.1	3.2	3.3	3.2	3.5	4.7	2.9	3.9	3.3	
1996	1.9	1.9	2.0	2.1	1.9	2.3	3.1	2.0	1.7	2.1	
1997	1.4	1.8	1.8	1.0	1.2	1.6	1.1	1.3	1.3	1.4	
1998	1.6	2.0	2.1	1.6	1.6	1.8	1.1	1.8	2.2	1.8	
1999	1.7	1.3	1.5	1.3	1.7	1.8	1.8	2.1	3.0	1.6	
2000	2.2	2.3	2.5	1.8	1.8	1.9	1.1	2.5	1.8	2.1	
2001	2.1	2.2	1.7	1.8	1.9	2.2	1.2	1.5	1.2	1.9	

1/ Percentages by defect type may not add to total defects due to rounding.

WHEAT GRADES AND DOCKAGE - 2001

and District 1 2 3 4 5 Sample 26ro 0.1* 0.0* 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9%	County			Gra	ade			Dockage				Average Dockage of Samples	
CHEYENNE 28 61 11 0 0 0 19 64 17 1.5 0.8 GRAHAM 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	and District	1	2	3	4	5	Sample	Zero %	0.1- 0.4%	0.5- 0.9%	Over 0.9%	Over 0.9%	All
CHEYENNE 28 61 11 0 0 0 19 64 17 1.5 0.8 BEGATUR 53 33 13 0 1 0 0 9 68 12 0.8 RAHAM 95 5 0 0 0 0 3 73 12 0.8 RAVILINS 7 7 8 5 0 0 0 1 1.2 17 1.3 0.8 SHERMAN 9 81 10 0 0 0 0 2.0 80 1.3 1.2 HAMAS 30 68 2 0 0 0 0 2.5 76 1.4 1.2 0.8 RORTHWEST 26 68 6 0 0 0 0 0 0 0 0 1.2 1.3 1.3 1.3 0 0 0 0 0 0 0 </td <td></td> <td></td> <td> Perc</td> <td>ent of</td> <td>Total <u>1</u>/</td> <td></td> <td></td> <td></td> <td>Percent</td> <td>of Total 1</td> <td><u> </u>/</td> <td>Perc</td> <td>cent</td>			Perc	ent of	Total <u>1</u> /				Percent	of Total 1	<u> </u> /	Perc	cent
DECATUR 53 33 13 0 1 0 0 9 68 23 1.2 0.8 NORTON 95 5 0 0 0 0 3 73 24 1.2 0.8 RAWLINS 7 88 5 0 0 0 0 1.8 1.3 0.8 SHERMAN 9 81 10 0 0 0 0 2.57 1.4 1.1 2.08 SHERMAN 9 81 10 0 0 0 0 36 0.47 1.3 0.9 GOVE .85 15 0 0 0 0 0 0 0 0 1.4 1.1 1.0 GOVE .85 15 0 0 0 0 0 0 0 1.0 1.0 0 0 0 0 1.1 1.1 1.1 1.1 1.1 0.9 1.1 0.0 0 0 0 1.1 1.1 1.1 1.1	CHEYENNE	28	61	11	0	0	0	0	19	64	17	1.5	0.8
GRAHAM * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * <td>DECATUR</td> <td>53</td> <td>33</td> <td>13</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>9</td> <td>68</td> <td>23</td> <td>1.2</td> <td>0.8</td>	DECATUR	53	33	13	0	1	0	0	9	68	23	1.2	0.8
NORTON 95 3 0 0 0 0 3 73 74 12 0.0 SHERDAN 7 78 5 0 0 0 1 12 17 13 0.5 SHERMAN 9 81 10 0 0 0 0 2 80 13 12 NORTHWEST 26 68 0 0 0 3 50 47 12 0.9 GOVE 85 15 0 0 0 0 0 3 50 47 13 0.9 GOVE		*	*	*	*	*	*	*	*	* 70	*	*	*
CHERIDAN <t tr=""> ICGAN<</t>	RAWI INS	95 7	с 88	5	0	0	0	0	3 1	73 82	24 17	1.2	0.8
SHERMAN 9 81 10 0 0 0 0 0 0 0 13 12 0.9 MORTHWEST 26 68 6 0 0 0 3 50 47 1.3 0.9 GOVE 85 16 0 0 0 0 5 38 57 14 1.1 GARE * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	SHERIDAN	*	*	*	*	*	*	*	*	*	*	*	*
IHOMAS. 30 68 2 0 0 0 2 57 41 1.2 0.9 MORTHWEST 26 68 0 0 0 0 5 38 57 1.4 1.1 GOVE 85 15 0 0 0 0 0 5 38 57 1.4 1.1 LANE 90 10 0 0 0 0 0 10 25 65 1.6 1.3 LOGAN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SHERMAN	9	81	10	0	0	0	0	0	20	80	1.3	1.2
GOVE Cove Clark t		30 26	68 68	2	0	0	0	0	2	57 50	41 47	1.2 1 3	0.9
CREELEY C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C C </td <td>GOVE</td> <td>85</td> <td>15</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>38</td> <td>57</td> <td>1.4</td> <td>1.1</td>	GOVE	85	15	0	0	0	0	0	5	38	57	1.4	1.1
LANE 90 10 0 0 0 10 25 65 1.6 1.3 LOGAN 76 24 0 0 0 0 0 80 80 1.2 1.1 SCOTT 86 13 1 0 0 0 10 56 34 14 0.9 TREGO 77 23 0 0 0 0 15 77 8 1.3 0.7 WALLACE 54 45 1 0 0 0 11 52 37 1.3 0.9 WCHTA 80 19 1 0 0 0 11 52 37 1.3 0.9 CLARK * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *<	GREELEY	*	*	*	*	*	*	*	*	*	*	*	*
LOGAN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>LANE</td> <td>90</td> <td>10</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td> <td>25</td> <td>65</td> <td>1.6</td> <td>1.3</td>	LANE	90	10	0	0	0	0	0	10	25	65	1.6	1.3
NESS 16 24 0 0 0 0 0 0 0 17 53 1.2 1.1 TREGO 77 23 0 0 0 0 10 56 34 14 0.9 WALLACE 54 45 1 0 0 0 139 55 5 1.2 0.5 WEST CENTRAL 80 19 1 0 0 0 0 11 52 37 1.3 0.9 CLARK	LOGAN	0	100	0	0	0	0	0	0	80	20	1.3	0.8
TREGO TO C3 O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O </td <td>SCOTT</td> <td>76 86</td> <td>24 13</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td> <td>27 56</td> <td>73 34</td> <td>1.2</td> <td>1.1</td>	SCOTT	76 86	24 13	1	0	0	0	0	10	27 56	73 34	1.2	1.1
WALACE 54 45 1 0 0 0 0 61 39 1.2 0.8 WICHITA	TREGO	77	23	0	0	ŏ	0	0 0	15	77	8	1.3	0.7
WICHTA	WALLACE	54	45	1	0	0	0	0	0	61	39	1.2	0.9
WEST CENTRAL 80 19 1 0 0 0 0 1 52 37 1.3 0.9 FINNEY 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<	WICHITA	95	5	0	0	0	0	1	39	55	5	1.2	0.5
DLANN 100 0 0 0 0 40 60 0 0.0 0.5 FORD 80 20 0 0 0 0 4 64 32 1.2 0.9 GRANT 78 22 0 0 0 0 19 66 15 1.2 0.7 GRAY 78 22 0 0 0 0 78 22 0 0.0 0 78 22 0 0.0 HAMILTON 92 8 0 0 0 0 8 61 31 1.1 0.0 MEADE 85 11 1 3 0 0 0 23 55 22 1.2 0.7 SEWARD 91 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WEST CENTRAL .	<u>80</u> *	<u>19</u> *	<u>1</u> *	<u>0</u> *	<u>0</u> *	<u> </u>	<u> </u>	<u>11</u>	<u>52</u>	<u> </u>	1.3	0.9 *
FORD 80 20 0 0 0 0 4 64 32 1.2 0.9 GRANT 98 2 0 0 0 0 19 66 15 1.2 0.7 GRAY 78 22 0 0 0 0 78 22 0 0.0 0 HASKELL * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * <td< td=""><td>FINNEY</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>40</td><td>60</td><td>0</td><td>0.0</td><td>0.5</td></td<>	FINNEY	100	0	0	0	0	0	0	40	60	0	0.0	0.5
GRANT 98 2 0 0 0 0 19 66 15 1.2 0.7 GRAY 78 22 0 0 0 0 78 22 0 0.0 0.4 HAMILTON 92 8 0 0 0 0 8 61 31 1.2 0.8 HODGEMAN * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	FORD	80	20	Õ	Õ	Õ	Õ	Ő	4	64	32	1.2	0.9
GRAY 78 22 0 0 0 0 78 22 0 0.0 0.4 HAMILTON 92 8 0 0 0 0 8 61 31 1.2 0.8 HASKELL * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	GRANT	98	2	0	0	0	0	0	19	66	15	1.2	0.7
HAMILTON 92 8 0 0 0 0 8 61 31 1.2 0.8 HODGEMAN * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * </td <td>GRAY</td> <td>78</td> <td>22</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>78</td> <td>22</td> <td>0</td> <td>0.0</td> <td>0.4</td>	GRAY	78	22	0	0	0	0	0	78	22	0	0.0	0.4
INDUCLE * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * </td <td>HAMILION</td> <td>92</td> <td>8</td> <td>0</td> <td>0</td> <td>0 *</td> <td>0</td> <td>0</td> <td>8 *</td> <td>61 *</td> <td>31</td> <td>1.2</td> <td>8.0 *</td>	HAMILION	92	8	0	0	0 *	0	0	8 *	61 *	31	1.2	8.0 *
KEARNY 100 0 0 0 0 0 80 0 20 1.3 0.5 MEADE 85 11 1 3 0 0 24 66 10 1.1 0.6 SEWARD 91 7 1 1 0 0 18 67 14 1.3 0.7 SEWARD 91 7 1 1 0 0 36 64 0 0.0 0.5 STANTON 90 10 0 0 0 0 17 81 2 1.0 0.6 SOUTHWEST 87 12 0 1 0 0 17 62 21 1.2 0.6 CLOUD 68 32 0 0 0 0 47 51 2 1.7 0.5 JEWELL 91 9 0 0 0 0 64 36 1.8 1.0 MITCHELL 77 18 3 2 0 0 0 <	HODGEMAN	*	*	*	*	*	*	*	*	*	*	*	*
MEADE 85 11 1 3 0 0 0 24 66 10 1.1 0.6 MORTON 92 8 0 0 0 1 18 67 14 1.3 0.7 SEWARD 91 7 1 1 0 0 36 64 0 0.0 0.5 STANTON 90 10 0 0 0 0 23 55 22 1.2 0.7 STEVENS 87 12 0 1 0 0 0 17 81 2 1.0 0.6 SOUTHWEST 87 12 0 1 0 0 0 17 81 2 1.0 0.6 47 51 2 1.7 0.5 JEWELL 91 9 0 0 0 0 0 64 36 1.8 1.0 MITCHELL 77 18 3 2 0 0 0 17 0.9 20 1.0 <t< td=""><td>KEARNY</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>80</td><td>0</td><td>20</td><td>1.3</td><td>0.5</td></t<>	KEARNY	100	0	0	0	0	0	0	80	0	20	1.3	0.5
MORION 92 8 0 0 0 1 18 67 14 1.3 0.7 SEWARD 91 7 1 1 0 0 36 64 0 0.0 0.5 STANTON 90 10 0 0 0 0 23 55 22 1.2 0.7 STEVERS 87 12 0 1 0 0 17 81 2 1.0 0.6 CLAY * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	MEADE	85	11	1	3	0	0	0	24	66	10	1.1	0.6
STANTON 91 7 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<		92	8	0	0	0	0	1	18	67 64	14	1.3	0.7
STEVENS 100 0 0 0 0 0 17 81 2 1.0 0.6 SOUTHWEST 87 12 0 1 0 0 0 17 81 2 1.0 0.6 CLAY * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	STANTON	90	10	0	0	0	0	0	23	55	22	1.2	0.5
SOUTHWEST 87 12 0 1 0 0 17 62 21 1.2 0.6 CLAY * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	STEVENS	100	0	Õ	Õ	Õ	Õ	Õ	17	81	2	1.0	0.6
CLAY	SOUTHWEST	87	12	0	1	0	0	0	17	62	21	1.2	0.6
DEUCOD 66 32 0 0 0 0 0 47 51 2 1.7 0.5 JEWELL 91 9 0 0 0 0 0 64 36 1.8 1.0 MITCHELL 77 18 3 2 0 0 0 64 36 1.8 1.0 OSBORNE 69 28 2 1 0 0 0 9 51 40 1.6 1.0 OTTAWA 0 50 50 0 0 0 10 90 0 0.0 0.0 PHILIPS 75 22 3 0 0 0 16 67 16 1.2 0.7 ROCKS 56 23 21 0 0 0 4 21 75 2.0 1.7 SMITH 74 24 1 1 0 0 0 11 60 29 1.2 0.8 WASHINGTON 100 0 0		*	*	*	*	*	*	*	*	*	*	*	^ *
MITCHELL		68 91	32	0	0	0	0	0	47	51 64	∠ 36	1.7	0.5
OSBORNE 69 28 2 1 0 0 9 51 40 1.6 1.0 OTTAWA 0 50 50 0 0 0 10 90 0 0.0 0.6 PHILLIPS 75 22 3 0 0 0 19 49 32 1.3 0.8 REPUBLIC 79 20 1 0 0 0 14 66 7 16 1.2 0.7 ROOKS 56 23 21 0 0 0 4 21 75 2.0 1.7 ROOKS 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MITCHELL	77	18	3	2	ŏ	Ő	Ő	6	74	20	1.7	0.9
OTTAWA 0 50 50 0 0 0 10 90 0 0.0 0.6 PHILLIPS 75 22 3 0 0 0 11 16 67 16 1.2 0.7 REPUBLIC 79 20 1 0 0 0 11 16 67 16 1.2 0.7 ROOKS 56 23 21 0 0 0 0 44 21 75 2.0 1.7 SMITH 74 24 1 1 0 0 0 11 60 29 1.2 0.8 WASHINGTON 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><td>OSBORNE</td><td>69</td><td>28</td><td>2</td><td>1</td><td>0</td><td>0</td><td>0</td><td>9</td><td>51</td><td>40</td><td>1.6</td><td>1.0</td></th<>	OSBORNE	69	28	2	1	0	0	0	9	51	40	1.6	1.0
PHILLIPS 75 22 3 0 0 0 0 19 49 32 1.3 0.8 REPUBLIC 79 20 1 0 0 0 1 16 67 16 1.2 0.7 ROOKS 56 23 21 0 0 0 44 21 75 2.0 1.7 SMITH 74 24 1 1 0 0 0 11 60 29 1.2 0.8 WASHINGTON 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< td=""><td>OTTAWA</td><td>0</td><td>50</td><td>50</td><td>0</td><td>0</td><td>0</td><td>0</td><td>10</td><td>90</td><td>0</td><td>0.0</td><td>0.6</td></td<>	OTTAWA	0	50	50	0	0	0	0	10	90	0	0.0	0.6
ROOKS 10 10 10 10 10 10 112 0.7 ROOKS 74 24 1 1 0 0 0 4 21 75 2.0 1.7 SMITH 74 24 1 1 0 0 0 11 60 29 1.2 0.8 WASHINGTON 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td></td> <td>75 70</td> <td>22</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>19 16</td> <td>49 67</td> <td>32</td> <td>1.3</td> <td>0.8</td>		75 70	22	3	0	0	0	0	19 16	49 67	32	1.3	0.8
SMITH 74 24 1 1 0 0 0 11 60 29 1.2 0.8 WASHINGTON 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><td>ROOKS</td><td>56</td><td>20</td><td>21</td><td>0</td><td>0</td><td>0</td><td>0</td><td>4</td><td>21</td><td>75</td><td>2.0</td><td>1.7</td></th<>	ROOKS	56	20	21	0	0	0	0	4	21	75	2.0	1.7
WASHINGTON 100 0 0 0 0 0 60 40 0 0.0 0.4 NORTH CENTRAL 71 26 2 1 0 0 0 26 57 17 1.6 0.9 BARTON 82 17 1 0 0 0 0 9 45 46 1.5 1.0 DICKINSON 73 27 0 0 0 0 247 51 1.8 1.2 ELLIS 88 11 1 0 0 0 2 47 51 1.8 1.2 ELLSWORTH 91 9 0 0 0 0 20 247 51 1.8 1.2 ELLSWORTH 91 9 0 0 0 0 20 22 68 10 1.1 0.6 LINCOLN 89 11 0 0 0 0 24 2 2.2 0.5 RICE 79 20 1 0 <	SMITH	74	24	1	1	Ō	0	Ō	11	60	29	1.2	0.8
NORTH CENTRAL 71 26 2 1 0 0 26 57 17 1.6 0.9 9 BARTON 82 17 1 0 0 0 9 45 46 1.5 1.0 DICKINSON 73 27 0 0 0 0 5 79 16 1.1 0.7 ELLIS 88 11 1 0 0 0 2 47 51 1.8 1.2 ELLSWORTH 91 9 0 0 0 0 22 68 10 1.1 0.6 LINCOLN 89 11 0 0 0 0 20 56 24 1.6 0.8 MCPHERSON * * * * * * * * * * * * * * * * * * * * * * </td <td>WASHINGTON</td> <td>100</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>60</td> <td>40</td> <td>0</td> <td>0.0</td> <td>0.4</td>	WASHINGTON	100	0	0	0	0	0	0	60	40	0	0.0	0.4
BARTON 62 17 1 0 0 0 9 43 46 1.3 1.0 DICKINSON 73 27 0 0 0 0 5 79 16 1.1 0.7 ELLIS 88 11 1 0 0 0 2 47 51 1.8 1.2 ELLSWORTH 91 9 0 0 0 0 22 68 10 1.1 0.6 LINCOLN 89 11 0 0 0 0 20 56 24 1.6 0.8 MCPHERSON * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * <td>NORTH CENTRAL</td> <td><u>71</u></td> <td><u>26</u></td> <td><u>2</u></td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td><u>26</u></td> <td>57</td> <td>17</td> <td>1.6</td> <td>0.9</td>	NORTH CENTRAL	<u>71</u>	<u>26</u>	<u>2</u>	1	0	0	0	<u>26</u>	57	17	1.6	0.9
ELLIS 88 11 1 0 0 0 2 47 51 1.8 1.2 ELLSWORTH 91 9 0 0 0 0 02 68 10 1.1 0.6 LINCOLN 89 11 0 0 0 0 22 68 10 1.1 0.6 LINCOLN 89 11 0 0 0 0 20 56 24 1.6 0.8 MCPHERSON * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * </td <td>DICKINSON</td> <td>73</td> <td>27</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9 5</td> <td>43 79</td> <td>40 16</td> <td>1.5</td> <td>0.7</td>	DICKINSON	73	27	0	0	0	0	0	9 5	43 79	40 16	1.5	0.7
ELLSWORTH 91 9 0 0 0 0 22 68 10 1.1 0.6 LINCOLN 89 11 0 0 0 0 20 56 24 1.6 0.8 MCPHERSON * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	ELLIS	88	11	1	õ	õ	0	ŏ	2	47	51	1.8	1.2
LINCOLN 89 11 0 0 0 0 20 56 24 1.6 0.8 MCPHERSON * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	ELLSWORTH	91	9	0	0	0	0	0	22	68	10	1.1	0.6
MARION 63 36 1 0 0 0 44 54 2 2.2 0.5 RICE 79 20 1 0 0 0 44 54 2 2.2 0.5 RUSH 72 27 0 1 0 0 0 44 54 2 2.2 0.5 RUSH 72 27 0 1 0 0 0 4 38 58 1.4 1.1 RUSSELL 75 16 6 3 0 0 0 7 48 45 1.5 1.0 SALINE * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *<		89	11	0 v	0	0	0	0 •	20	56	24	1.6	0.8
RICE 79 20 1 0 0 0 0 40 54 6 1.2 0.6 RICE 79 20 1 0 0 0 0 40 54 6 1.2 0.6 RUSH 72 27 0 1 0 0 0 4 38 58 1.4 1.1 RUSSELL 75 16 6 3 0 0 7 48 45 1.5 1.0 SALINE * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *		63	36	 1	N	 0	n N	0	 44	54	2		05
RUSH 72 27 0 1 0 0 4 38 58 1.4 1.1 RUSSELL 75 16 6 3 0 0 7 48 45 1.5 1.0 SALINE * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	RICE	79	20	1	0	0	0	0	40	54	6	1.2	0.6
RUSSELL 75 16 6 3 0 0 7 48 45 1.5 1.0 SALINE * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * <td>RUSH</td> <td>72</td> <td>27</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td> <td>38</td> <td>58</td> <td>1.4</td> <td>1.1</td>	RUSH	72	27	0	1	0	0	0	4	38	58	1.4	1.1
CENTRAL 78 21 1 0 0 0 0 20 49 31 15 08	RUSSELL	75	16	6	3	0	0	Q	7	48	45	1.5	1.0
		78	° 21	1	n	ĥ	n N	n	20	<u>^</u>	21	15	^ ٩

WHEAT GRADES AND DOCKAGE - 2001

County			Gra	ade			Dockage				Average Dockage of Samples	
and District	1	2	3	4	5	Sample	Zero %	0.1- 0.4%	0.5- 0.9%	Over 0.9%	Over 0.9%	All
		Perc	ent of	Total <u>1</u> /				Percent	of Total 1	<u> /</u>	Perc	ent
BARBER	70	24	5	1	0	0	0	26	49	25	2.6	1.1
	*	*	*	*	*	*	*	*	* -	*	*	*
HARPER	100	0 *	0 *	0 *	0 *	0 *	0 *	93	/ *	0 *	0.0	0.3
HARVEY	*	*	*	*	*	*	*	*	*	*	*	*
	93	4	1	2	0	0	0	49	44	7	1.3	0.5
PAWNEE	97 77	21	1	1	0	0	0	3	65 41	56	1.2	0.0
PRATT	49	49	2	Ö	Õ	Ũ	õ	8	62	30	1.4	0.9
RENO	76	24	0	0	0	0	0	71	17	12	1.1	0.5
SEDGWICK	10	78	12	0	0	0	0	49	51	0	0.0	0.5
STAFFORD	86	10	2	2	0 *	0 *	0	53	43	4	1.1	0.5
SOUTH CENTRAL	70	26	3	1	0	0	0	25	47	28	1.4	0.6
ATCHISON	*	*	*	*	*	*	*	*	*	*	*	*
BROWN	*	*	*	*	*	*	*	*	*	*	*	*
	*	*	*	*	*	*	*	*	*	*	*	*
JACKSON	*	*	*	*	*	*	*	*	*	*	*	*
LEAVENWORTH	*	*	*	*	*	*	*	*	*	*	*	*
MARSHALL	100	0	0	0	0	0	0	83	17	0	0.0	0.4
	*	*	*	*	*	*	*	*	*	*	*	*
	*	*	*	*	*	*	*	*	*	*	*	*
WYANDOTTE	*	*	*	*	*	*	*	*	*	*	*	*
NORTHEAST	100	0	0	0	0	0	0	83	17	0	*	0.4
	*	*	*	*	*	*	*	*	*	*	*	*
	0	100	0	0	0	0	0	90	10	0	0.0	0.3
DOUGLAS	*	*	*	*	*	*	*	*	*	*	*	*
FRANKLIN	15	85	0	0	0	0	0	98	2	0	0.0	0.3
GEARY	*	*	*	*	*	*	*	*	*	*	*	*
JOHNSON	0	75 100	25	0	0	0	0	0 80	50 20	50	1.4	1.0
LYON	*	*	*	*	*	*	*	*	*	*	*	*
MIAMI	*	*	*	*	*	*	*	*	*	*	*	*
MORRIS	*	*	*	*	*	*	*	*	*	*	*	*
SHAWNEE	*	*	*	*	*	*	*	*	*	*	*	*
WABAUNSEE	*	*	*	*	*	*	*	*	*	*	*	*
EAST CENTRAL .	10	89	1	0	0	0	0	92	6	2	1.4	0.4
ALLEN	43	57	0	0	0	0	0	62	37	1	1.6	0.4
	*	*	*	*	*	*	*	*	*	*	*	*
CHAUTAUQUA	*	*	*	*	*	*	*	*	*	*	*	*
CHEROKEE	53	42	4	0	1	0	0	61	34	5	1.6	0.5
COWLEY	88	11	0	1	0	0	0	18	2	80	2.2	1.8
	85	15	0	0	0	0	0	89	11	0	0.0	0.3
	*	*	*	*	*	*	*	*	*	*	*	*
LABETTE	17	83	0	0	0	0	0	58	38	4	1.6	0.5
MONTGOMERY	47	52	1	0	0	0	0	32	25	43	2.0	1.1
	64	36	0	0	0	0	0	65 75	26	9	1.7	0.5
WOODSON	52 *	41 *	۱ *	*	*	U *	*	/ S *	19	0 *	∠.0 *	0.5 *
SOUTHEAST	<u>6</u> 8	<u>3</u> 1	1	0	0	0	0	46	17	37	<u>1</u> .9	<u>1</u> .0
STATE	67	31	2	0	0	0	0	19	51	30	1.4	0.8

1/ May not add due to rounding.*Not published due to insufficient data or no sample taken, but included in district and State totals.

		GN	ADL					AGLS	-		· · · · ·		
County	Samples	Total [Damag	ed	Foreig	n Mate	rial	Shrur	nken ar	nd	De	Total	,
and	Tested	Ke Average	erneis		Average	1	1	Broke	n Kerne	eis	De Average	$\frac{1}{2}$	
District	2001 <u>1</u> /	1990-99	2000	2001	1990-99	2000	2001	1990-99	2000	2001	1990-99	2000	2001
		1000 00		1	1000 00			1000 00			1000 00		
CHEYENNE	132	0.1	0.1	0.1	0.0	0.0	0.0	2.0	2.7	2.4	2.1	2.9	2.4
DECATUR	141	0.1	0.1	0.1	0.0	0.0	0.1	1.7	1.7	1.6	1.9	1.8	1.8
GRAHAM	*	0.1	*	*	0.1	*	*	2.1	*	*	2.3	*	*
NORTON	58	0.1	0.6	0.0	0.1	0.1	0.0	1.7	1.5	1.4	1.8	2.1	1.5
RAWLINS	81	0.1	0.1	0.0	0.0	0.0	0.0	1.9	2.3	2.3	2.0	2.4	2.3
SHERIDAN	*	0.0	0.0	*	0.0	0.0	*	2.1	1.6	*	2.1	1.6	*
SHERMAN	378	0.1	0.0	0.0	0.0	0.0	0.0	1.8	2.2	2.1	1.9	2.3	2.1
THOMAS	625	0.1	0.0	0.2	0.0	0.0	0.0	1.8	2.1	2.1	2.0	2.2	2.3
NORTHWEST	1,415	0.1	0.0	0.1	0.0	0.0	0.0	1.8	2.0	2.0	2.0	2.2	2.1
	164	0.1	0.1	0.0	0.0	0.0	0.0	1.8	2.1	1.8	1.9	2.2	1.8
	20	0.2	0.2	0.1	0.0	0.0	0.1	1.8	2.0	1 0	2.1	2.2	1 0
	20	0.2	0.2	0.1	0.0	0.1	0.1	2.1	2.2	1.0	2.3	2.0	1.9
NESS	C 1 N	0.0	0.1	0.0	0.0	0.0	0.1	1./ 20	1.7	0.4 01	1.0 2.2	1.9 21	ა.ე ეე
SCOTT	41 282	0.2	0.1	0.0	0.0	0.0	0.1	∠.∪ 1 Ջ	2.2 21	2.1 1 0	2.2	2.4	∠.∠ 2∩
TREGO	13	0.2	0.1	0.1	0.0	0.0	0.0	21	2. 4 21	1.8	2.0	2.J 22	2.0
WALLACE	290	0.2	0.1	0.3	0.1	0.1	0.1	18	21	21	2. 4 1 9	2.2	2.2
WICHITA	135	0.2	0.1	0.0	0.0	0.0	0.0	2.0	2.6	1.7	2,2	2.8	1.7
WEST CENTRAL	1.050	0.2	0.0	0.1	0.0	0.0	0.1	1.9	2.1	2.1	2.1	2.3	2.2
CLARK	*	0.3	*	*	0.0	*	*	2.0	*	*	2.4	*	*
FINNEY	5	0.2	0.2	0.0	0.1	0.2	0.0	1.8	2.7	1.8	2.1	3.0	1.8
FORD	271	0.2	0.5	0.2	0.1	0.1	0.2	2.0	2.0	2.0	2.3	2.6	2.3
GRANT	89	0.2	0.2	0.1	0.0	0.0	0.1	2.0	3.0	1.7	2.2	3.2	1.9
GRAY	9	0.2	0.1	0.1	0.0	0.0	0.0	1.8	2.2	0.9	2.0	2.3	1.0
	49	0.3	0.1	0.0	0.0	0.0	0.0	2.0	2.8	2.1	2.4	2.9	2.2
HASKELL	*	0.3	0.1	*	0.0	0.0	*	1.7	2.2	*	2.0	2.3	*
HODGEMAN		1.3	0.0		0.0	0.1		2.1	1.8		3.4	1.9	
	10	0.1	0.1	0.0	0.0	0.0	0.0	1.7	1.8	0.7	1.9	2.0	0.7
	192	0.3	0.2	0.0	0.1	0.3	0.2	1.0	1.5	1.4	2.1	2.0	1.7
	1/0	0.3	0.3	0.1	0.0	0.1	0.0	2.1	2.2	1.0	2.4	2.5	1.9
STANTON	292	0.2	0.0	0.0	0.1	0.4	0.1	22	2.0	1.0	2.1	2.0	1.4
STEVENS	60	0.2	0.1	0.1	0.0	0.0	0.0	2.0	2.0	1.2	2.2	2.1	1.3
SOUTHWEST	1.250	0.3	0.0	0.1	0.0	0.1	0.0	1.9	2.2	1.5	2.2	2.5	1.7
CLAY	*	0.1	0.0	*	0.2	0.1	*	1.7	1.6	*	2.0	1.7	*
CLOUD	1,148	0.2	0.0	0.5	0.2	0.2	0.4	2.0	1.5	1.6	2.5	2.0	2.4
JEWELL	11	0.2	0.0	0.0	0.1	0.1	0.2	1.7	1.5	1.2	2.1	1.6	1.4
MITCHELL	355	0.2	0.1	0.2	0.2	0.1	0.3	1.7	1.5	1.2	2.0	1.7	1.8
OSBORNE	282	0.2	0.1	0.1	0.1	0.1	0.3	1.7	1.7	1.4	2.1	1.9	1.8
	10	0.1	*	0.0	0.3	*	0.9	1.7	*	1.4	2.0	*	2.3
	79	0.2	0.1	0.0	0.1	0.0	0.2	1.7	1.5	1.4	1.9	1.7	1.7
	351	0.6	0.1	0.3	0.1	0.1	0.2	1.7	1.4	1.4	2.4	1.6	1.9
	5/	0.1	0.0	0.0	0.1	0.1	0.3	1.6	1.5	1./ 1 E	1.8	1.5	2.0
	240 25	0.2	0.0 1 0	0.1	0.1	0.1	0.1 0.1	1.5 1 7	1.3	כ.ו מת	1./	1.4 26	1./
	2563	0.0	00	0.3	0.1	0.1	0.1	1.7	1.5	13	2.4	2.0	1.0
BARTON	181	0.3	0.1	0.1	0.2	0.0	0.2	1.7	1.7	1.6	2.2	1.9	1.9
DICKINSON	37	0.2	0.3	0.2	0.1	0.1	0.2	1.6	1.0	1.3	1.9	1.4	1.8
ELLIS	89	0.2	0.1	0.2	0.1	0.1	0.2	1.9	1.8	1.3	2.2	2.0	1.7
ELLSWORTH	67	0.2	0.2	0.1	0.1	0.1	0.3	1.6	1.2	1.4	2.0	1.5	1.7
LINCOLN	122	0.2	0.1	0.2	0.1	0.1	0.2	1.8	1.5	1.5	2.2	1.6	1.9
MCPHERSON	*	0.3	*	*	0.2	*	*	1.5	*	*	2.0	*	*
MARION	138	0.3	0.3	0.2	0.2	0.1	0.2	1.6	1.2	1.7	2.1	1.6	2.1
RICE	341	0.2	0.1	0.1	0.1	0.1	0.2	1.4	1.6	1.8	1.8	1.8	2.1
RUSH	372	0.3	0.2	0.1	0.1	0.1	0.2	1.8	1.9	1.8	2.2	2.2	2.1
	89	0.2	0.2	0.2	0.1	0.1	0.4	1.8	1.5	1.4	2.2	1.8	2.0
	4 400	0.4	• •	~ ~	0.2			1.9	× • -		2.6	*	×
CENIKAL	1,436	0.3	0.0	0.2	0.2	0.1	0.2	1.7	1.5	1.6	2.1	1.8	1.9

GRADE DEFECT PERCENTAGES

County	Samples	Total Damaged Kernels			Foreign Material			Shrunken and Broken Kernels			Total Defects <u>2/</u>		
and District	Tested 2001 1/	Average	2000	2001	Average	2000	2001	Average	2000	2001	Average	2000	2001
		1990-99			1990-99			1990-99			1990-99		
BARBER	99	0.2	0.1	0.1	0.2	0.1	0.2	1.9	1.3	1.7	2.2	1.4	2.0
COMANCHE	*	0.2	*	*	0.2	*	*	1.9	*	*	2.3	*	*
EDWARDS	15	0.3	0.1	0.0	0.0	0.0	0.0	1.7	1.3	1.0	2.1	1.5	1.0
HARPER	*	0.2	0.0	*	0.4	0.2	*	2.0	1.8	*	2.6	2.0	*
HARVEY	*	0.2	*	*	0.2	*	*	1.4	*	*	1.8	*	*
KINGMAN	215	0.2	0.1	0.0	0.3	0.2	0.2	1.5	1.3	1.6	2.0	1.6	1.8
KIOWA	117	0.4	0.6	0.0	0.1	0.1	0.2	1.7	1.3	1.5	2.1	2.0	1.6
PAWNEE	608	0.2	0.2	0.1	0.1	0.1	0.2	1.9	1.9	1./	2.2	2.1	2.0
	181	0.3	0.1	0.1	0.2	0.1	0.2	1.7	1.5	1.9	2.2	1.6	2.2
	116	0.5	17	0.2	0.3	0.2	0.3	1.0	16	1.9	2.5	25	2.3
	51	0.4	1./	0.1	0.2	0.2	0.2	1.0	1.0	2.1	2.4	3.5	4.0
SUMNER	٦١ *	0.2	*	0.1	0.2	*	0.2	1.7	*	1.5	2.1	*	1.0
SOUTH CENTRAL	1.419	0.3	0.0	0.3	0.2	0.2	0.2	1.8	1.5	1.7	2.3	1.9	2.2
ATCHISON	*	1.0	*	*	0.1	*	*	1.3	*	*	2.3	*	*
BROWN	*	1.0	*	*	0.0	*	*	1.1	*	*	2.2	*	*
DONIPHAN	*	*	*	*	*	*	*	*	*	*	*	*	*
JACKSON	*	*	*	*	*	*	*	*	*	*	*	*	*
JEFFERSON	*	*	*	*	*	*	*	*	*	*	*	*	*
LEAVENWORTH	*	*	*	*	*	*	*	*	*	*	*	*	*
MARSHALL	29	0.7	0.1	0.2	0.1	0.0	0.0	1.4	1.0	1.0	2.2	1.1	1.2
	*	1.0	*	*	0.1	*	*	1.6	*	*	2.7	*	*
POTTAWATOME .	*	0.4	*	*	0.0	*	*	1.4	*	*	1.8	*	*
	*	0.2	4 0	*	0.1	~ ^	*	2.3		*	2.6	07	*
	20	1.2	1.2	0.2	0.1	0.1	0.0	1.4	1.4	1 0	2.1	2./	1 0
ANDERSON	<u> </u>	*	<u> </u>	<u> </u>	<u> </u>	<u> </u>	*	*	<u> </u>	<u> </u>	<u> </u>	*	*
CHASE	*	0.1	*	*	0.0	*	*	2.0	*	*	2.2	*	*
COFFEY	10	0.6	*	0.2	0.1	*	0.1	1.2	*	0.5	1.8	*	0.8
DOUGLAS	*	1.9	*	*	0.1	*	*	1.3	*	*	3.3	*	*
FRANKLIN	60	0.5	*	0.2	0.0	*	0.1	1.1	*	0.6	1.6	*	0.9
GEARY	*	*	*	*	*	*	*	*	*	*	*	*	*
JOHNSON	4	0.7	*	0.8	0.1	*	0.2	1.9	*	3.1	2.8	*	4.1
LINN	5	*	*	0.7	*	*	0.1	*	*	0.7	*	*	1.4
LYON	*	*	*	*	*	*	*	*	*	*	*	*	*
	*		*	*	×	*	*	*	*	*	~	*	*
	*	0.2	0.2	*	0.3	0.1	*	1.9	0.0	*	2.4	4.4	*
SHAWNEE	*	0.0 0 A	0.3	*	0.2	0.1	*	1.3	0.8	*	2.3 25	۱.۱ *	*
WABAUNSEE	*	0.0	*	*	0.1	*	*	1.7	*	*	2.5	*	*
EAST CENTRAL	79	0.6	1.3	0.4	0.1	0.2	0.1	1.6	1.1	1.0	2.3	2.5	1.5
ALLEN	77	*	0.4	0.1	*	0.0	0.0	*	0.7	0.8	*	1.1	0.9
BOURBON	*	*	*	*	*	*	*	*	*	*	*	*	*
BUTLER	*	0.3	*	*	0.2	*	*	1.5	*	*	1.9	*	*
CHAUTAUQUA	*	*	*	*	*	*	*	*	*	*	*	*	*
CHEROKEE	168	1.3	2.6	0.4	0.1	0.1	0.1	1.0	0.9	1.2	2.4	3.6	1.6
COWLEY	177	0.4	0.2	0.1	0.2	0.1	0.1	1.6	0.9	1.0	2.2	1.2	1.2
	124	1.5	2.6	0.4	0.1	0.1	0.1	1.2	0.7	0.7	2.7	3.3	1.2
	*	*	*	*	*	*	*	*	*	*	*	*	*
	53	9.0	11	*	01	0.0	*	14	٥N	*	21	20	*
MONTGOMERY	158	1.0	0.9	0.1	0.1	0.1	0.1	1.5	0.9	1.0	2.6	1.8	1.1
NEOSHO	269	0.8	0.7	0.0	0.1	0.0	0.0	1.3	0.7	0.9	2.2	1.5	1.0
WILSON	203	0.8	0.7	0.2	0.1	0.1	0.1	1.3	0.9	1.2	2.3	1.7	1.5
WOODSON	*	0.7	*	*	0.1	*	*	1.3	*	*	2.1	*	*
SOUTHEAST	1,229	0.8	1.0	0.1	0.1	0.1	0.1	1.4	0.8	1.0	2.3	1.8	1.2
ISTATE	10.470	0.3	0.0	0.1	0.1	0.1	0.1	1.8	1.8	1.6	2.2	2.1	1.9

GRADE DEFECT PERCENTAGES

1/ Samples tested represent data from inspection certificates of railroad cars (truckloads are converted to carlot equivalents). Summarized data include old crop and new crop wheat moving from first point of sale and inspected by the Kansas Grain Inspection Service, Inc. 2/ Percentages by defect may not add to total due to rounding. * Not published due to insufficient data or no sample taken, but included in district and State totals.

KANSAS WHEAT VARIETIES - 2001 CROP

Jagger was the leading variety of wheat seeded in Kansas for the 2001 crop. Accounting for 35.8 percent of the State's wheat, Jagger increased slightly from a year ago and was by far the most popular variety seeded in the southern third of the State. Jagger made the biggest gain in the southeast district.

The KSU maintained variety 2137 ranked second overall, with 22.3 percent of the acreage. It ranked first in five districts and second in the other four. TAM 107 remained in third position, but dropped to 5.3 percent of the acreage State-wide. Ike remained in fourth place with 3.6 percent of the acreage, but dropped 0.5 percent from last year. The fifth most popular variety was Karl and improved Karl with 3.3 percent of the State's acreage. New to the top ten is OSU maintained variety 2174, ranking sixth with 3.0 percent. TAM 110 moved up to seventh place, with 2.8 percent. The KSU maintained variety 2163 moved down to eighth place, with 2.0 percent. Dominator remained in the top ten, with 1.5 percent. Back in the top ten is AgriPro Coronado, with 1.1 percent. Acres planted with blended varieties were not included in the rankings by variety.

Blends were used more extensively in the north central and central parts of the State, accounting for 7.0 percent of the acres planted State-wide. Out of the total State acres planted with blends, 93 percent had Jagger in the blend and 82 percent had 2137 in the blend. All Hard White varieties accounted for 0.8 percent of the State's acreage, with Trego accounting for almost half the Hard White seeded acreage.

	BY SPECIFIED YEARS									
VARIETY	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
				PERCE	ENT OF	SEEDED) ACREA	GE		
Jagger					1.0	6.4	20.2	29.2	34.0	35.8
2137						1.0	13.5	22.0	23.1	22.3
TAM 107	18.3	19.8	19.0	20.6	17.1	17.0	12.6	8.3	6.3	5.3
lke				0.9	7.2	10.5	7.0	5.5	4.1	3.6
Karl/Karl 92	11.5	23	23.6	22.4	20.9	22.1	10.8	5.9	3.5	3.3
2174									1.1	3.0
TAM 110								0.5	1.3	2.8
2163	4.6	9	13.8	17.1	19.8	15.4	10.4	3.4	2.3	2.0
Dominator							0.2	0.8	1.4	1.5
AgriPro Coronado							0.8	1.3	1.0	1.1
Larned	8.9	8.3	8.3	7.6	4.8	3.6	2.4	1.9	1.2	1.0
Vista				0.3	0.8	1.2	1.1	0.9	0.9	1.0
AGSECO 7853	0.2	1.4	2.1	3.7	4.6	4.0	3.4	1.9	1.5	0.9
AgriPro Hondo									0.2	0.5
Alliance								0.1	0.3	0.5
AgriPro Tomahawk		1.5	6.2	7.0	4.7	3.1	1.8	1.2	0.8	0.4
Akron							0.4	0.8	1.0	0.4
AgriPro Ogallala				0.2	1.5	1.3	0.8	0.7	0.8	0.4
AgriPro Pecos			0.2	1.1	1.8	1.6	1.6	0.9	0.7	0.4
Niobrara									0.5	0.3
AgriPro Big Dawg							0.2	0.4	0.5	0.3
AGSECO Onaga								0.1	0.1	0.2
T83									0.1	0.2
T81									0.2	0.2
AgriPro Thunderbolt										0.2
Goretzen1878										0.2
Arapahoe	0.3	0.2	0.8	0.8	1.0	1.1	0.5	0.4	0.4	0.2
Newton	5.8	3.1	2.5	1.6	1.3	0.6	0.3	0.4	0.1	0.2
Eagle	1.6	1	1.1	1.1	0.6	0.5	0.4	0.3	0.2	0.2
Blends							2.6	6.1	7.5	7.0
Hard White Varieties									0.2	0.8
Other Hard Varieties	48.6	32.4	22.0	15.5	12.7	10.3	9.0	7.0	4.7	3.8
Other Soft Varieties	0.2	0.3	0.4	0.1	0.2	0.3				
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

DISTRIBUTION OF KANSAS WINTER WHEAT VARIETIES, 1992-2001

WHEAT QUALITY PROFILE - MILLING RESULTS

SURVEY AND PROJECT PROCEDURES

The wheat quality profile is a joint project of the Kansas State University Department of Grain Science and Industry and Kansas Agricultural Statistics Service. This report provides additional information for the evaluation of the milling and baking characteristics of Kansas wheat and makes available some meaningful comparisons with previous years. Historic data are shown at the end of this bulletin for selected characteristics for the period 1992-2001.

Users of these data should recognize there are some limitations in making inferences from the results. Sample size is a limiting factor for some varieties and quality characteristics. However, one of the major indications the survey provides is quality factors by variety. This information should be useful in evaluating the milling and flour qualities of the different varieties as produced in farm fields as well as comparing variety data with that summarized in previous Wheat Quality publications.

SAMPLE COLLECTION

Wheat from which the quality profile data were developed was collected as a part of the regular Wheat Objective Yield Survey program of Kansas Agricultural Statistics Service. Survey samples were distributed proportionally to the acreage grown in each area of the State with a total of 310 sample units selected. Two small plots were laid out in each field for observation during the growing season. Plant and head counts were made within the plots about May 1, June 1, and July 1. Enumerators were instructed to return to each sample field immediately prior to harvest (normally within seven days) to clip the wheat heads within the sample plots. These heads were sent to the Kansas Agricultural Statistics Service lab in Topeka for threshing and the yield per acre was computed. Wheat for the quality profile testing was also collected from these sample fields. If a sample was abandoned or lost, an alternate sample was collected from the immediate area. Based on average head weight and quantities needed for laboratory analysis, about 1,000 grams of grain were collected from each sample field.

QUALITY TESTS

The threshed grain was sent to the Department of Grain Science and Industry at Kansas State University for quality analysis.

Moisture and protein contents, test weight, 1,000 kernel weight, kernel size distribution, degree of softening, and falling number were determined on the individual samples.

The individual samples were then composited by districts in order to provide sufficient grain and flour for reliable milling and dough testing. When there were several samples of the same variety from a district, equal weights of that variety were composited. A mixed variety composite was made for each district using equal weights of any remaining varieties. The resulting flours were used for chemical and rheological tests.

DESCRIPTION OF TESTING PROCEDURES

MARKETING TESTS

Wheat grades are based on tests conducted by inspectors who are licensed and supervised by the Federal Grain Inspection Service (FGIS). These tests determine the physical and biological condition of the grain. They include test weight, moisture and protein contents, presence of diseased and damaged kernels, unmillable material, and sanitary condition.

Flour millers perform additional tests to determine specific qualities desired for milling and baking. A major portion of Kansas hard red winter wheat is milled into flour for large wholesale bread bakeries.

The following test descriptions are intended as an aid in interpreting the tables on the following pages. For additional information on hard red winter wheat quality analysis see "Evaluating Bread Wheat" published by the Wheat Quality Council, P.O. Box 966, Pierre, SD 57501-0966.

PROTEIN

The protein test is used to predict the quantity of gluten and not the quality. The protein content of wheat or flour is predicted by determining the percent of nitrogen using the combustion nitrogen analysis (CNA) method, then multiplying by an appropriate conversion factor. Combustion nitrogen analysis involves combusting a sample in pure oxygen, collecting the combustion gases, then analyzing the gases for nitrogen content by measuring the thermal conductivity of the gases.

Wheat protein content is reported on a 12% moisture basis while flour protein content is reported on a 14% moisture basis.

Protein content of commercially milled flour averages about 1% less than the wheat from which it was milled. Flour for pan bread is usually milled from wheats having at least 12% to 13% protein. Hearth breads and hard rolls usually require higher protein content flour.

SINGLE KERNEL CHARACTERIZATION SYSTEM (SKCS)

The SKCS unit directly measures physical characteristics of wheat such as kernel hardness, kernel diameter, and kernel weight. Measurements are made on 300 individual kernels of wheat, and the single kernel average and standard deviation (uniformity) are calculated. Additionally, a classification such as "Hard", "Mixed", or "Soft" is assigned. Single kernel weight value is highly correlated with the One Thousand Kernel Weight value.

TEST WEIGHT PER BUSHEL

This test determines the weight per Winchester bushel of a sample under controlled conditions. Determinations were made using a one quart kettle for 1000 grams, or for small samples, a 1/8 quart kettle and 125 grams of wheat. This method is described in Circular No. 921 issued by the United States Department of Agriculture.

There is a correlation between the test weight and the yield of straight grade flour from a sample. Straight grade flour is a blend of all the flour streams from each grinding operation in the mill. As the test weight increases, the expected yield of flour also increases.

The test weight of wheat decreases as moisture is added. This decrease is the result of:

- 1) the lower specific gravity of water as compared to wheat
- 2) the swelling of the kernels as water is absorbed

If the wetted wheat is redried, it doesn't regain the original test weight because the kernel is unable to shrink after swelling and the roughened bran coat prevents close packing of the kernels. Shriveled kernels also show a decreased test weight because of their inability to pack tightly.

A low test weight is a strong indicator of unsound wheat. This test, used along with the 1000 kernel weight and the wheat size tests, provides an estimate of milling extraction (flour yield).

HECTOLITER WEIGHT

To convert test weight in pounds per Winchester bushel (lb/bu) to kilograms per hectoliter (kg/hl), the following formula is used:

This is a change for 2001. The formula used in previous years was: kg/hl = lb/bu X 1.287.

1000 KERNEL WEIGHT (TKW)

An electronic seed counter is used to count 40 grams of cleaned whole kernels of wheat. Kernel weight is reported in grams per 1000 kernels on a 12% moisture basis.

The percentage of endosperm in wheat kernels of the same variety is normally greater in larger wheat kernels than in smaller kernels. Plump kernels of wheat weigh more; and therefore, have a higher 1000 kernel weight which suggests good milling extraction. However, this conclusion must be substantiated by the test weight and wheat size tests.

WHEAT KERNEL (SIZE) DISTRIBUTION

Kernel size distribution is determined by sifting 200 grams of wheat over wire mesh screens of two different sizes (7w and 9w) for one minute.

Higher percentages over the 7w represent larger, plumper kernels containing a large percentage of endosperm indicating a higher potential flour yield. Factors such as wetting or scouring will affect the outcome of this test. Wetting will increase the size of the wheat kernels. Although the kernels are larger, the milling extraction will remain the same. On the other hand, scouring will decrease the size of the wheat kernels by removing the dust and smoothing the bran of the kernels. Although the theoretical yield is lower, the milling extraction is unchanged. To eliminate false conclusions, the wheat size test should be used in conjunction with the test weight and 1000 kernel weight tests.

MOISTURE

The measurement of moisture in wheat and flour is important because:

- 1) wheat cannot be safely stored above 12-13 percent moisture
- 2) moisture has a bearing on flour yield in milling
- 3) all analysis must be on a common moisture basis to be compared

Wheat moisture is measured using a Motomco Moisture Meter. The Motomco Moisture Meter works on the principle of capacitance. The capacitance is greater in water than in the rest of the kernel; as a result, the increase in capacitance can be related to the water content. Moisture calibration of the Motomco is checked with the Air Oven Method (AACC Method 44-15A). Moisture content is calculated from the loss in weight which occurs during oven drying at 130° C for one hour.

LABORATORY MILLING

The composited wheat samples were conditioned by adding enough water to bring the moisture content to 15.0% approximately 24 hours prior to milling. Each composited sample was milled on a Brabender Quadrumat Senior laboratory flour mill. Four products were obtained from each milling: bread flour, reduction flour, bran, and shorts. Total flour extraction (yield) was expressed as percentage of the total products recovered from the mill.

The percent of ash, or mineral content (AACC Method 08-01), is given with the flour extraction as an additional measure of milling performance. The bran coat normally contains about ten times the amount of ash as the endosperm. As the level of extraction increases, the ash content typically increases indicating that more bran material was ground into flour. Different wheats also have varying amounts of ash content in the endosperm, depending on the variety and the growing conditions. A wheat with good milling characteristics gives a high yield of low ash flour.

WET GLUTEN

Ten grams of ground wheat meal and 5.2 milliliters of 2 percent salt solution are mixed in the Glutomatic test chamber for 20 seconds. The gluten is then washed for 5 minutes and a separation of gluten and soluble starch is obtained. The gluten ball is then divided and placed in a centrifuge for 1 minute to remove excess water. The weight of the centrifuged gluten x 10 = Percent Wet Gluten.

DRY GLUTEN

The gluten from the wet gluten process above is placed between two heated Teflon-coated plates for approximately 4 minutes. The weight of the dry gluten $x \ 10 =$ Percent Dry Gluten.

FALLING NUMBER (AACC Method 56-81B)

The falling number test is used to detect sprout damage in wheat. Wet weather during harvest causes sprouting and the release of starch-liquefying enzymes. These enzymes are very active at high temperatures and may cause the baked product to be gummy inside or the flour in gravies and soups to break down.

The falling number test is relatively simple. The falling number value is the number of seconds from the time of immersion of the test tube in boiling water until the stirrer-viscometer has fallen a prescribed distance through a flour paste. As the amount of sprouted wheat increases, the falling number decreases.

There is an optimum falling number value for each flour use.

FARINOGRAPH AND MIXOGRAPH

The mixograph and farinograph measure and record the resistance to mixing of a flour and water dough. The recording, or curve, rises to a "peak" as the flour proteins are developed into a three dimensional structure (gluten) and then falls as the gluten is broken down by continued mixing.

Time required for a mixograph or farinograph curve to reach the "peak" is an estimate of the amount of mixing required to properly develop the dough for bread baking. The rate at which the curve falls and narrows after the peak, and stability of curve height on either side of the peak are indicators of tolerance to over-mixing. Curves made by the two instruments are not directly comparable.

The water absorption values obtained with the farinograph and mixograph provide estimates of water required for baking. Absorption usually increases as protein content increases.

Large mechanized bakeries require flour with high water absorption, medium-long mixing requirement, and adequate mixing tolerance.

Flours with low mixing requirement usually lack mixing tolerance. Flours with excessive mixing requirement have good tolerance but increase bakery energy costs, disrupt production schedules, and may cause machining problems which results in inferior loaves which cannot be sold.

The following information is derived from the mixograph test (AACC Method 54-40A):

<u>Absorption</u>: The percentage of water required to produce an optimum mixogram. Too much water produces a curve that dips during the development stage; too little water causes the curve to be very wide.

<u>Peak (Mixing) Time</u>: The time required for the dough to reach full development. This time can be determined from the intersection of lines drawn through the center of both sides of the curve. The time (minutes) from the start of the curve to the intersection of the two lines is the optimum mixing time.

<u>Mixing Tolerance</u>: There is no standard measure of mixograph mixing tolerance. A dough with poor mixing tolerance will produce a curve with a very sharp peak followed by an immediate decrease in width and height of the curve. A dough with good mixing tolerance will produce a curve with a gradual peak that maintains its width and height after the peak.

Information derived from the farinograph test (AACC Method 54-21,A) include:

<u>Absorption</u>: This is the percentage of water required to center the curve on the 500 Brabender Unit (B.U.) line at the maximum consistency of the dough (Peak). Absorption is reported on a 14% moisture basis.

<u>Peak (Mixing) Time</u>: This is the time required for the curve to reach its full development or maximum consistency. Long peak times are usually associated with strong wheats.

Stability (Tolerance): This is the time that the curve remains above the 500 B.U. line and is measured from the arrival time to the departure time. The longer the stability, the greater the abuse and the longer the fermentation a flour is able to withstand.

Degree of Softening: This is another indicator of mixing tolerance of the dough. Given in Brabender units, it measures the breakdown of the dough 12 minutes after the peak mixing time. Lower values are better as they indicate greater tolerance.

WHEAT QUALITY PROFILE - 2001 CROP INDIVIDUAL SAMPLES

Number 12% Weight MB. KW. 12% MB. Over 70% Thm 90% Hardness 90% Number 91 NORTHWEST Pct. Lb/Bu Kg/H Grams Ferent+ Seconds NORTHWEST 12.2 59.7 78.6 26.4 26.9 67.4 2.7 77.9 417 ARAPAHOE 3 13.1 58.7 77.3 26.0 186.6 79.2 2.2 78.1 4423 JAGGER 6 12.6 60.1 79.1 27.8 35.7 63.5 3.0 74.8 429 ALL VARIETIES 30 12.5 59.6 78.5 27.3 33.5 63.5 3.0 74.8 428 MINIMUM - 8.5 53.1 70.0 2.3 1.5 21.4 0.2 61.4 278 VEST CENTRAL 2137 10 11.6 60.3 79.4 26.5 34.3 64.0 1.7 80.0 4424 57.7 33.1	Aroa 8	No. of	Protein	То	ot	1,000	Whea	t Size T	est <u>1</u> /	SKCS	Falling
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OTHER 12 12.9 59.7 78.6 27.4 40.5 56.8 2.6 74.0 422 ALL VARIETIES 41 12.5 60.3 79.4 28.1 42.4 55.7 1.9 75.7 431 MINIMUM - 10.1 55.9 73.7 22.9 14.5 21.9 0.0 66.7 355 MAXIMUM - 15.1 64.8 85.1 33.3 77.7 80.8 6.3 87.0 538 SOUTHWEST 2137 10 12.2 60.7 79.8 29.5 50.5 46.4 3.1 73.7 406 IKE 5 12.1 33.6 62.3 81.9 31.1 58.2 40.8 1.0 78.8 399 TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 1.1 82.3 44.5 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1	TAM 107	5	12.1	60.5	79.6	30.3	52.0	46.2	1.8	71.1	448
ALL VARIETIES 41 12.5 60.3 79.4 28.1 42.4 55.7 1.9 75.7 431 MINIMUM - 10.1 55.9 73.7 22.9 14.5 21.9 0.0 66.7 355 MAXIMUM - 15.1 64.8 85.1 33.3 77.7 80.8 6.3 87.0 538 SOUTHWEST 2137 10 12.2 60.7 79.8 29.5 50.5 46.4 3.1 73.7 406 IKE 5 12.2 59.3 78.0 27.3 35.6 61.0 3.4 72.9 358 JAGGER 12 13.3 62.3 81.9 31.1 58.2 40.8 1.0 78.8 399 TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 41.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 <td>OTHER</td> <td>12</td> <td>12.9</td> <td>59.7</td> <td>78.6</td> <td>27.4</td> <td>40.5</td> <td>56.8</td> <td>2.6</td> <td>74.0</td> <td>422</td>	OTHER	12	12.9	59.7	78.6	27.4	40.5	56.8	2.6	74.0	422
MINIMUM - 10.1 55.9 73.7 22.9 14.5 21.9 0.0 66.7 355 MAXIMUM - 15.1 64.8 85.1 33.3 77.7 80.8 6.3 87.0 538 SOUTHWEST 2137 10 12.2 60.7 79.8 29.5 50.5 46.4 3.1 73.7 406 KE 5 12.2 59.3 78.0 27.3 35.6 61.0 3.4 72.9 358 JAGGER 12 13.3 62.3 81.9 31.1 60.5 38.4 1.1 82.3 438 OTHER 14 12.6 62.0 81.6 29.8 53.8 44.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 <td>ALL VARIETIES</td> <td>41</td> <td>12.5</td> <td>60.3</td> <td>79.4</td> <td>28.1</td> <td>42.4</td> <td>55.7</td> <td>1.9</td> <td>75.7</td> <td>431</td>	ALL VARIETIES	41	12.5	60.3	79.4	28.1	42.4	55.7	1.9	75.7	431
MAXIMUM - 15.1 64.8 85.1 33.3 77.7 80.8 6.3 87.0 538 SOUTHWEST 2137 10 12.2 60.7 79.8 29.5 50.5 46.4 3.1 73.7 406 IKE 5 12.2 59.3 78.0 27.3 35.6 61.0 3.4 72.9 358 JAGGER 12 13.3 62.3 81.9 31.1 58.2 40.8 1.0 78.8 399 TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 1.1 82.3 438 OTHER 14 12.6 62.0 81.6 29.8 53.8 44.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6	MINIMUM	-	10.1	55.9	73.7	22.9	14.5	21.9	0.0	66.7	355
SOUTHWEST 2137 10 12.2 60.7 79.8 29.5 50.5 46.4 3.1 73.7 406 IKE 5 12.2 59.3 78.0 27.3 35.6 61.0 3.4 72.9 358 JAGGER 12 13.3 62.3 81.9 31.1 58.2 40.8 1.0 78.8 399 TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3	MAXIMUM	-	15.1	64.8	85.1	33.3	77.7	80.8	6.3	87.0	538
2137 10 12.2 60.7 79.8 29.5 50.5 46.4 3.1 73.7 406 IKE 5 12.2 59.3 78.0 27.3 35.6 61.0 3.4 72.9 358 JAGGER 12 13.3 62.3 81.9 31.1 58.2 40.8 1.0 78.8 399 TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9	SOUTHWEST										
IKE 5 12.2 59.3 78.0 27.3 35.6 61.0 3.4 72.9 358 JAGGER 12 13.3 62.3 81.9 31.1 58.2 40.8 1.0 78.8 399 TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 1.1 82.3 438 OTHER 14 12.6 62.0 81.6 29.8 53.8 44.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 <td>2137</td> <td>10</td> <td>12.2</td> <td>60.7</td> <td>79.8</td> <td>29.5</td> <td>50.5</td> <td>46.4</td> <td>3.1</td> <td>73.7</td> <td>406</td>	2137	10	12.2	60.7	79.8	29.5	50.5	46.4	3.1	73.7	406
JAGGER 12 13.3 62.3 81.9 31.1 58.2 40.8 1.0 78.8 399 TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 1.1 82.3 438 OTHER 14 12.6 62.0 81.6 29.8 53.8 44.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9<	IKE	5	12.2	59.3	78.0	27.3	35.6	61.0	3.4	72.9	358
TAM 107 4 13.2 60.8 79.9 31.1 60.5 38.4 1.1 82.3 438 OTHER 14 12.6 62.0 81.6 29.8 53.8 44.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3<	JAGGER	12	13.3	62.3	81.9	31.1	58.2	40.8	1.0	78.8	399
OTHER 14 12.6 62.0 81.6 29.8 53.8 44.4 1.8 74.5 405 ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.2 79.1 <td>TAM 107</td> <td>4</td> <td>13.2</td> <td>60.8</td> <td>79.9</td> <td>31.1</td> <td>60.5</td> <td>38.4</td> <td>1.1</td> <td>82.3</td> <td>438</td>	TAM 107	4	13.2	60.8	79.9	31.1	60.5	38.4	1.1	82.3	438
ALL VARIETIES 45 12.7 61.4 80.7 29.9 52.8 45.2 2.0 76.0 401 MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARI 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.0 73.4 423 ALL VARIETIES 41 12.1 60.7 79.9 28.6 45.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 <t< td=""><td>OTHER</td><td>14</td><td>12.6</td><td>62.0</td><td>81.6</td><td>29.8</td><td>53.8</td><td>44.4</td><td>1.8</td><td>74.5</td><td>405</td></t<>	OTHER	14	12.6	62.0	81.6	29.8	53.8	44.4	1.8	74.5	405
MINIMUM - 9.7 54.1 71.3 20.0 13.9 17.0 0.2 48.6 283 MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.2 79.1 28.3 52.6 45.4 2.0 73.4 423 ALL VARIETIES 41 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 <td>ALL VARIETIES</td> <td>45</td> <td>12.7</td> <td>61.4</td> <td>80.7</td> <td>29.9</td> <td>52.8</td> <td>45.2</td> <td>2.0</td> <td>76.0</td> <td>401</td>	ALL VARIETIES	45	12.7	61.4	80.7	29.9	52.8	45.2	2.0	76.0	401
MAXIMUM - 15.6 64.4 84.6 37.6 82.5 82.8 11.3 88.6 481 NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8	MINIMUM	-	9.7	54.1	71.3	20.0	13.9	17.0	0.2	48.6	283
NORTH CENTRAL 2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.2 79.1 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2 11.7 61.1 80.4 29.4 53.2 45.7	MAXIMUM	-	15.6	64.4	84.6	37.6	82.5	82.8	11.3	88.6	481
2137 13 11.8 60.4 79.5 28.3 44.5 53.2 2.2 79.0 406 DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2137 15 12.2 60.8	NORTH CENTRAL										
DOMINATOR 5 11.6 62.3 81.9 28.9 41.7 56.7 1.7 75.6 423 JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.2 79.1 28.3 52.6 45.4 2.0 73.4 423 ALL VARIETIES 41 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 <	2137	13	11.8	60.4	79.5	28.3	44.5	53.2	2.2	79.0	406
JAGGER 8 13.2 60.7 79.9 28.7 47.4 50.3 2.3 77.2 417 KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.2 79.1 28.3 52.6 45.4 2.0 73.4 423 ALL VARIETIES 41 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 <	DOMINATOR	5	11.6	62.3	81.9	28.9	41.7	56.7	1.7	75.6	423
KARL 92 6 11.9 61.1 80.3 29.3 44.3 54.2 1.5 70.0 443 OTHER 9 12.1 60.2 79.1 28.3 52.6 45.4 2.0 73.4 423 ALL VARIETIES 41 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1	JAGGER	8	13.2	60.7	79.9	28.7	47.4	50.3	2.3	77.2	417
OTHER 9 12.1 60.2 79.1 28.3 52.6 45.4 2.0 73.4 423 ALL VARIETIES 41 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 <	KARL 92	6	11.9	61.1	80.3	29.3	44.3	54.2	1.5	70.0	443
ALL VARIETIES 41 12.1 60.7 79.9 28.6 46.5 51.5 2.0 75.7 419 MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8	OTHER	9	12.1	60.2	79.1	28.3	52.6	45.4	2.0	73.4	423
MINIMUM - 9.8 57.6 75.9 23.7 13.6 3.3 0.2 56.4 379 MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.8 47.4 50.8 1.8 75.2 421 ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8	ALL VARIETIES	41	12.1	60.7	79.9	28.6	46.5	51.5	2.0	75.7	419
MAXIMUM - 15.2 63.3 83.3 33.8 96.5 83.3 7.8 89.1 518 CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.8 47.4 50.8 1.8 75.2 421 ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321	MINIMUM	-	9.8	57.6	75.9	23.7	13.6	3.3	0.2	56.4	379
CENTRAL 2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321	MAXIMUM	-	15.2	63.3	83.3	33.8	96.5	83.3	7.8	89.1	518
2137 15 12.2 60.8 80.0 28.6 43.5 54.8 1.7 77.3 416 2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.8 47.4 50.8 1.8 75.2 421 ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321	CENTRAL										
2163 3 11.7 61.1 80.4 29.4 53.2 45.7 1.1 72.9 457 DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.8 47.4 50.8 1.8 75.2 421 ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321	2137	15	12.2	60.8	80.0	28.6	43.5	54.8	1.7	77.3	416
DOMINATOR 6 12.2 60.0 78.9 26.4 27.8 70.0 2.2 61.3 429 JAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.8 47.4 50.8 1.8 75.2 421 ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321	2163	3	11.7	61.1	80.4	29.4	53.2	45.7	1.1	72.9	457
UAGGER 12 11.6 60.2 79.1 28.6 50.5 47.2 2.3 76.1 433 OTHER 14 11.7 60.6 79.8 28.8 47.4 50.8 1.8 75.2 421 ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321 MAXIMUM - 14.1 63.0 82.8 33.5 71.2 85.0 74 57.2 54.7	DOMINATOR	6	12.2	60.0	78.9	26.4	27.8	70.0	2.2	61.3	429
UTHER 14 11.7 60.6 79.8 28.8 47.4 50.8 1.8 75.2 421 ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321 MAXIMUM - 14.1 63.0 82.8 33.5 71.2 85.0 7.1 97.8 547		12	11.6	60.2	79.1	28.6	50.5	47.2	2.3	76.1	433
ALL VARIETIES 50 11.9 60.5 79.6 28.4 45.0 53.1 1.9 74.2 426 MINIMUM - 8.8 54.5 71.8 23.0 12.9 28.0 0.5 51.8 321 MAXIMUM - 14.1 63.0 82.8 33.5 74.2 85.0 7.1 97.8 547		14	11.7	60.6	79.8	28.8	47.4	50.8	1.8	/5.2	421
iviiiviiuiui - δ.δ 54.5 /1.δ 23.0 12.9 28.0 0.5 51.8 321 ΜΔΧΙΜΕΙΜ - 1/.1 63.0 82.8 33.5 71.2 95.0 7.1 97.9 5/7		50	11.9	60.5	79.6	28.4	45.0	53.1 20.0	1.9	74.2	426
	ΜΔΧΙΜΙ ΙΜ	-	0.0 1/1 1	04.0 63.0	71.0 82.8	∠3.U 33 5	12.9 71.2	∠0.0 85.0	0.5 7 1	ס.וכ פקפ	32 I 5/17

WHEAT QUALITY PROFILE - 2001 CROP INDIVIDUAL SAMPLES

A	Nia af	Protein	T	-1	1,000	Whea	t Size T	est <u>1</u> /	SKCS	Falling	
Area & Variety	No. of Samples	12% M.B.	l e Wei	ight	K.W. 12% M.B.	Over 7W	Over 9W	Thru 9W	Hardness	Number <u>2</u> /	
		Pct.	Lb/Bu	Kg/HI	Grams		Percent			Seconds	
SOUTH CENTRAL	0	11.0	61.1	00.2	20.7	44.2	5 4 O	10	72 5	422	
2137	9	11.0	67.9	80.3 92.5	28.7	44.Z	54.0 20.2	1.8	73.5	432	
	3	10.9	02.0 61.4	02.5 90.7	29.4	09.0 57.4	39.Z	1.0	70.9	300	
	40	11.9	61.7	00.7	30.3	57.4	41.3	1.2	73.1	410	
	10	11.7	61.0	01.Z	29.0	50.1	49.0	0.9	70.7 60.2	440	
	70	11.9	61.5	01.4 00.0	30.3	55.5 EE 1	43.3	1.2	72.0	424	
	12	00	56.7	74.6	24.2	15.6	43.7	1.2	19.0	421	
	-	0.0 1/1 8	64.3	74.0 84.5	24.2	85.6	82.4	0.0 5.2	40.4	546	
	-	14.0	04.5	04.5	50.7	05.0	02.4	5.2	00.7	540	
NORTHEAST											
OTHER	6	12.2	60.7	79.9	31.1	60.8	38.6	0.6	72.5	392	
ALL VARIETIES	6	12.2	60.7	79.9	31.1	60.8	38.6	0.6	72.5	392	
MINIMUM	-	10.7	58.3	76.7	27.4	35.8	26.5	0.0	62.0	338	
MAXIMUM	-	13.6	62.9	82.6	35.2	73.4	63.4	1.3	84.3	423	
	-		00.7	70.0	00.7	50.0	40.0		07.0	000	
	5	11.1	60.7	79.9	30.7	58.6	40.3	1.1	67.6	382	
	5	11.1	60.7	79.9	30.7	58.6	40.3	1.1	67.6	382	
	-	8.8	58.2	76.6	26.8	34.5	9.3	0.3	46.2	333	
MAXIMUM	-	13.1	63.7	83.7	35.4	90.4	63.5	2.0	78.2	449	
SOUTHEAST											
2137	5	10.2	61.4	80.7	32.2	68.3	30.5	1.2	68.4	408	
JAGGER	6	10.1	61.1	80.3	31.3	67.1	32.0	0.9	67.1	390	
OTHER	4	10.6	61.5	80.9	31.5	73.6	25.6	0.8	62.8	402	
ALL VARIETIES	15	10.2	61.3	80.6	31.7	69.2	29.8	1.0	66.4	399	
MINIMUM	-	9.2	58.4	76.9	24.7	29.8	14.2	0.2	49.2	310	
MAXIMUM	-	11.9	64.6	84.8	35.9	85.5	67.3	3.0	90.9	470	
STATE											
2137	68	11.7	60.7	79.8	28.6	44.9	53.0	2.0	76.4	419	
2163	6	11.2	60.8	80.0	30.3	59.1	39.7	1.2	70.1	443	
2174	6	10.9	63.0	82.8	30.5	68.7	30.5	0.8	74.8	383	
ARAPAHOE	3	13.1	58.7	77.3	26.0	18.6	79.2	2.2	78.3	444	
7853	3	12.0	59.9	78.8	27.0	41.4	56.2	2.4	70.9	432	
DOMINATOR	13	11.9	61.2	80.5	27.6	34.3	63.8	1.9	67.3	431	
HONDO	3	13.6	57.7	76.0	24.1	18.2	77.0	4.8	81.1	382	
IKE	16	12.6	60.6	79.7	28.9	44.6	53.3	2.1	72.9	394	
JAGGER	98	12.1	61.2	80.4	29.9	54.4	44.1	1.5	74.7	415	
KARL	4	11.7	61.6	81.0	32.5	60.7	38.5	0.8	63.6	430	
KARL 92	12	12.2	61.0	80.3	30.3	51.4	47.4	1.2	67.8	423	
LARNED	4	12.4	59.7	78.6	28.1	39.5	58.7	1.8	68.9	437	
OGALLALA	4	12.3	64.0	84.1	29.7	54.3	43.9	1.8	75.8	401	
TAM 107	11	12.6	60.3	79.3	30.4	53.6	44.8	1.5	75.7	444	
2137/JAGGER	11	12.3	60.5	79.5	28.5	48.5	49.7	1.8	73.8	428	
OTHER	43	12.2	60.5	79.6	28.5	47.3	50.4	2.3	74.2	419	
ALL VARIETIES	305	12.1	60.8	80.0	29.1	49.0	49.2	1.8	74.1	418	
MINIMUM	-	8.5	53.1	70.0	20.0	1.5	3.3	0.0	46.2	278	
MAXIMUM	-	15.6	64.8	85.1	37.6	96.5	93.7	11.3	90.9	547	

1/May not add to 100 percent due to rounding. 2/14% moisture basis.

WHEAT QUALITY PROFILE - 2001 CROP COMPOSITED SAMPLES

	Prot		_		Wheat	t Size T	est <u>1</u> /	Whea	Wheat Data		Milling Data	
Area and Variety	12%	Te	st	K.W. 12%	Over	Over	Thru	Gl	uten	Extr-	Ash	Flour
Vanety	M.B.	We	gin	M.B.	7W	9W	9W	Wet	Dry	action	14% M.B.	2/
	Pct.	Lb/Bu	Kg/Hl	Grams					Percent			
NORTHWEST												
2137	12.0	60.0	78.9	25.2	32.1	65.3	2.7	29.1	10.2	69.6	0.46	11.7
ARAPAHOE	13.8	59.0	77.6	25.2	21.6	76.3	2.1	34.3	8.7	69.2	0.48	9.7
JAGGER	12.9	60.4	79.4	27.4	34.0	64.0	2.0	28.8	8.6	69.0	0.48	9.5
BLEND <u>3</u> /	12.7	59.5	78.2	26.0	34.8	62.3	2.9	28.6	8.5	70.3	0.44	8.8
ALL VARIETIES	12.8	59.7	78.6	26.0	30.6	67.0	2.4	30.2	9.0	69.5	0.47	9.9
WEST CENTRAL												
2137	11.9	60.4	79.5	26.3	34.8	63.6	1.6	24.8	9.0	68.6	0.52	10.2
IKE	13.3	60.9	80.1	28.9	48.0	50.9	1.2	33.1	8.8	71.0	0.45	9.9
JAGGER	13.3	61.3	80.6	28.2	49.3	49.7	1.1	29.5	9.5	70.4	0.42	10.4
TAM 107	12.2	60.8	80.0	29.9	54.6	43.9	1.5	29.0	10.0	68.0	0.48	11.2
BLEND <u>3</u> /	13.0	59.9	78.8	27.3	40.6	57.0	2.4	31.1	9.1	69.1	0.45	10.3
ALL VARIETIES	12.7	60.7	79.8	28.1	45.5	53.0	1.6	29.5	9.3	69.4	0.46	10.4
SOUTHWEST												
2137	12.4	61.1	80.3	28.9	54.9	42.8	2.3	29.1	9.9	69.5	0.46	10.8
IKE	12.3	59.5	78.3	26.6	39.4	57.8	2.9	26.2	9.9	70.3	0.43	10.0
JAGGER	13.5	62.7	82.4	31.2	60.5	38.8	0.8	32.5	9.3	68.6	0.45	10.0
TAM 107	13.2	60.9	80.1	29.6	60.6	38.3	1.2	29.2	12.7	67.4	0.48	12.1
BLEND 3/	12.7	61.8	81.2	29.3	52.6	45.9	1.5	31.3	12.3	69.4	0.48	10.9
ALL VARIETIES	12.8	61.2	80.5	29.1	53.6	44.7	1.7	29.6	10.8	69.0	0.46	10.8
NORTH CENTRAL												
2137	11.2	61.1	80.3	27.5	46.8	51.4	1.8	23.9	12.1	71.1	0.48	11.7
DOMINATOR	12.0	62.8	82.6	29.3	47.8	51.0	1.3	26.1	10.1	69.2	0.46	10.2
JAGGER	12.6	61.2	80.5	28.6	48.7	49.5	1.9	33.2	9.0	68.4	0.50	10.4
KARL 92	13.0	61.5	80.9	28.8	44.4	54.4	1.2	29.6	10.3	68.1	0.51	10.7
2137/Jagger	12.1	59.6	78.5	28.1	48.3	50.0	1.8	25.9	11.5	69.0	0.47	11.4
BLEND 3/	12.1	60.7	79.8	28.3	49.1	49.3	1.7	26.5	8.5	70.0	0.45	9.1
ALL VARIETIES	12.1	61.1	80.4	28.4	47.5	50.9	1.6	27.5	10.3	69.3	0.48	10.6
CENTRAL												
2137	11.4	60.8	80.0	27.5	42.1	56.8	1.2	25.6	9.9	67.7	0.46	10.7
2163	11.4	61.3	80.6	29.0	54.4	44.5	1.2	25.0	11.0	70.1	0.45	10.6
DOMINATOR	12.2	59.9	78.9	25.8	26.7	71.7	1.6	27.9	8.8	69.0	0.44	9.6
JAGGER	11.9	60.4	79.4	27.7	49.9	48.5	1.7	24.9	10.4	69.1	0.40	10.8
BLEND <u>3</u> /	12.0	60.7	79.9	28.2	50.6	48.0	1.4	28.9	10.0	69.1	0.51	10.6
ALL VARIETIES	11.8	60.6	79.8	27.6	44.7	53.9	1.4	26.5	10.0	69.0	0.45	10.5

WHEAT QUALITY PROFILE - 2001 CROP COMPOSITED SAMPLES

	Prot		_		Whea	t Size T	est <u>1</u> /	Whe	Wheat Data		Milling Data	
Area and Variety	12%	Te We	est iaht	K.W. 12%	Over	Over	Thru	GI	luten	Extr-	Ash	Flour Protein
	M.B.		.9	M.B.	7W	9W	9W	Wet	Dry	action	M.B.	<u>2</u> /
	Pct.	Lb/Bu	Kg/HI	Grams	-				- Percent			
SOUTH CENTRAL												
2137	11.6	61.3	80.6	28.3	46.1	52.8	1.2	26.6	12.0	70.2	0.46	11.3
2174	11.7	63.0	82.8	29.1	63.1	36.3	0.7	23.5	12.8	69.2	0.44	11.6
JAGGER	11.5	61.8	81.3	29.9	59.3	39.9	0.8	26.2	11.3	68.2	0.48	10.6
2137/JAGGER	11.2	62.3	81.9	29.9	55.6	43.8	0.7	23.1	9.8	69.6	0.47	11.2
BLEND <u>3</u> /	12.0	61.7	81.2	28.9	55.2	44.0	0.8	27.0	10.3	69.5	0.55	10.5
ALL VARIETIES	11.6	62.0	81.6	29.2	55.8	43.3	0.8	25.3	11.2	69.3	0.48	11.0
NORTHEAST												
BLEND <u>3</u> /	12.2	61.1	80.3	31.5	63.3	36.0	0.8	28.2	8.2	70.1	0.49	8.8
ALL VARIETIES	12.2	61.1	80.3	31.5	63.3	36.0	0.8	28.2	8.2	70.1	0.49	8.8
EAST CENTRAL												
BLEND <u>3</u> /	11.2	61.2	80.5	30.7	60.9	38.3	0.9	23.7	11.2	70.2	0.44	11.3
ALL VARIETIES	11.2	61.2	80.5	30.7	60.9	38.3	0.9	23.7	11.2	70.2	0.44	11.3
SOUTHEAST												
2137	10.3	61.8	81.3	32.5	67.4	31.5	1.2	23.0	10.7	70.8	0.48	11.7
JAGGER	10.4	61.5	80.9	32.1	68.4	31.0	0.7	23.2	8.8	70.4	0.43	10.1
BLEND <u>3</u> /	10.7	62.1	81.6	32.6	74.6	24.4	1.1	24.5	10.2	70.8	0.42	10.7
ALL VARIETIES	10.5	61.8	81.3	32.4	70.1	28.9	1.0	23.6	9.9	70.7	0.44	10.8
STATE												
2137	11.5	60.9	80.2	28.0	46.3	52.0	1.7	26.0	10.6	69.6	0.48	11.2
2163	11.4	61.3	80.6	29.0	54.4	44.5	1.2	25.0	11.0	70.1	0.45	10.6
2174	11.7	63.0	82.8	29.1	63.1	36.3	0.7	23.5	12.8	69.2	0.44	11.6
ARAPAHOE	13.8	59.0	77.6	25.2	21.6	76.3	2.1	34.3	8.7	69.2	0.48	9.7
DOMINATOR	12.1	61.4	80.7	27.6	37.2	61.4	1.4	27.0	9.5	69.1	0.45	9.9
IKE	12.8	60.2	79.2	27.8	43.7	54.3	2.1	29.6	9.4	70.7	0.44	9.9
JAGGER	12.3	61.3	80.6	29.3	52.8	45.9	1.3	28.3	9.6	69.2	0.45	10.3
KARL 92	13.0	61.5	80.9	28.8	44.4	54.4	1.2	29.6	10.3	68.1	0.51	10.7
TAM 107	12.7	60.9	80.0	29.7	57.6	41.1	1.3	29.1	11.4	67.7	0.48	11.7
2137/JAGGER	11.7	61.0	80.2	29.0	51.9	46.9	1.2	24.5	10.7	69.3	0.47	11.3
BLEND <u>3</u> /	12.1	61.0	80.2	29.2	53.5	45.0	1.5	27.8	9.8	69.8	0.47	10.1
ALL VARIETIES	12.1	61.0	80.3	28.7	49.7	48.8	1.5	27.5	10.1	69.4	0.47	10.6

1/ May not add to 100 percent due to rounding. 2/ 14% moisture basis. 3/ All other varieties with insufficient grain available for separate tests.

WHEAT QUALITY PROFILE - 2001 CROP PHYSICAL DOUGH TEST BY COMPOSITED SAMPLES

Area and	N /:	L	Physical	Dough Test		
Variety	IVIIXOG Absorption	rapn Dool: Time	Absorption	Farinogra	pn Stobility	Cottoning
	Percent	Minutes	Percent		Stability	Degree
NORTHWEST	Feiceni	winnutes	Feiceni		,	Degree
2137	61.5	2.8	61.7	4.0	9	50
ARAPAHOE	58.5	2.5	55.6	5.0	7	90
JAGGER	58.5	2.8	56.1	2.0	9	60
BLEND 1/	58.5	3.4	54.9	1.5	2	100
ALL VARIETIES	59.3	2.9	57.1	3.1	7	75
WEST CENTRAL						
2137	58.5	3.0	55.5	5.5	8	85
IKE	59.5	3.6	56.7	2.5	13	40
JAGGER	58.5	3.2	57.4	7.5	12	70
TAM 107	59.5	3.2	57.5	7.0	14	60
BLEND 1/	59.5	3.0	57.4	2.5	11	50
ALL VARIETIES	59.1	3.2	56.9	5.0	11	61
SOUTHWEST		2.0		25	-	00
	59.5 50.5	2.2	57.4	3.3 5 0	5	00 95
	59.5 50.5	3.0	57.3 57.4	0.0	9	00 95
TAM 107	09.0 61.5	3.1	57.4	0.0	9	00 70
	61.5	3.0	57.8	6.0	14	70
ALL VARIETIES	60.3	3.0	57.5	5.6	g	70
NORTH CENTRAL	00.0	0.0	0110	0.0	Ũ	
2137	61.5	2.6	59.8	6.0	9	70
DOMINATOR	59.5	3.8	57.7	8.0	14	65
JAGGER	59.5	3.2	58.9	7.0	11	80
KARL 92	59.5	3.0	55.0	6.0	10	60
2137/JAGGER	60.5	2.4	58.0	5.5	9	70
BLEND <u>1</u> /	58.5	3.7	55.2	1.5	9	60
ALL VARIETIES	59.8	3.1	57.4	5.7	10	68
CENTRAL					_	
2137	61.5	3.0	58.4	6.0	8	80
2163	59.5	2.5	59.8	5.0	6	60
DOMINATOR	59.5	3.6	56.4	2.0	12	50
	59.5	3.5	57.4	7.5	18	40
	50.5	3.0	57.7	5.0	11	90 64
	59.7	5.1	51.1	5.2		04
2137	61 5	30	58.4	6.0	12	50
2174	61.5	27	58.6	6.0	15	50
JAGGER	59.5	3.6	57.5	7.0	13	65
2137/JAGGER	59.5	3.2	58.0	8.0	15	60
BLEND 1/	61.5	3.6	55.5	6.0	12	60
ALL VARIETIES	60.7	3.2	57.6	6.6	13	57
NORTHEAST						
BLEND <u>1</u> /	56.5	4.0	54.9	1.5	2	80
ALL VARIETIES	56.5	4.0	54.9	1.5	2	80
EAST CENTRAL	00 F		50.7	7.0	45	50
BLEND 1/	62.5	3.8	56.7	7.0	15	50
	62.5	3.8	56.7	7.0	15	50
2127	60 F	26	50.2	5 5	6	90
	02.0 50.5	2.0	59.Z	5.5 8.0	17	60 50
BLEND 1/	61 5	3.5	56.7	6.0	15	50
ALL VARIETIES	61.2	3.2	57.4	6.5	13	60
STATE	01.2	0.2	0111	0.0	10	
2137	60.9	2.7	58.6	5.2	8	71
2163	59.5	2.5	59.8	5.0	õ	60
2174	61.5	2.7	58.6	6.0	15	50
ARAPAHOE	58.5	2.5	55.6	5.0	7	90
DOMINATOR	59.5	3.7	57.1	5.0	13	58
IKE	59.5	3.3	57.0	4.1	11	63
JAGGER	59.2	3.3	57.3	6.4	13	64
KARL 92	59.5	3.0	55.0	6.0	10	60
IAM 107	60.5	3.4	57.5	6.8	14	65
2137/JAGGER	60.0	2.8	58.0	6.8	12	65
	59.8	3.5	56.2	4.2	9	60
ALL VARIE HES	59.9	J.Z	57.3	ე.კ	10	00

<u>1</u>/ All other varieties with insufficient grain available for separate tests.

WHEAT QUALITY PROFILE, 2000-2001

RANGES FOR PROTEIN CONTENT - 12% M.B. (MOISTURE BASIS) 1/

Year	Less than 9.0	9.0-9.9	10.0-10.9	11.0-11.9	12.0-12.9	13.0 and Over	State Avg.		
Percent of Samples									
2000	0.6	9.6	24.0	21.8	18.3	25.6	12.0		
2001	1.3	7.5	14.9	26.3	23.1	26.9	12.1		

1/ May not add to 100 percent due to rounding.

RANGES FOR TEST WEIGHT - KILOGRAMS/HECTOLITER 1/ Year Less than 70.0 70.0-71.9 72.0-73.9 74.0-75.9 76.0-77.9 80.0-81.9 82.0 & Over 78.0-79.9 State Avg. - - - Percent of Samples 2000 3.5 0.6 1.6 11.9 19.4 33.5 19.7 9.7 78.6 2001 1.3 13.6 22.7 80.0 0.0 1.0 4.5 23.1 33.8

1/ May not add to 100 percent due to rounding.

RANGES FOR FALLING NUMBER - SECONDS <u>1</u> /									
Year	Less than 180	180-299	300-399	400-419	420 and Over	State Avg.			
Percent of Samples									
2000	0.3	1.0	58.0	21.5	19.2	397			
2001	0.0	0.6	26.9	23.7	48.7	418			

1/ May not add to 100 percent due to rounding.

WHEAT QUALITY PROFILE, 1992-2001

	Number				Wheat Analysis				SKCS		
Year	of	Protein %	Teet	\//oight	1,000 Kernels	١	Wheat Size 1/				
	Samples	12% M.B.	Test	weight	12% M.B.	Over 7W	Over 9W	Thru 9W	<u>2</u> /		
			Lb./Bu.	Kg./Hl.	Grams		Percent				
1992	275	12.0	60.4	77.7	29.2	55.2	43.3	1.6	65.7		
1993	273	11.3	60.6	78.0	29.0	50.3	48.3	1.5	68.6		
1994	274	12.3	61.3	78.9	27.4	45.1	53.0	1.9	69.3		
1995	271	12.4	58.7	75.6	25.3	38.0	58.7	3.3	57.0		
1996	274	13.8	60.2	77.5	28.3	50.4	48.2	1.5	62.9		
1997	301	11.9	60.4	79.5 <u>3</u> /	30.3	60.2	38.8	1.0	44.5		
1998	307	11.4	61.1	80.4	29.1	54.9	43.7	1.4	67.8		
1999	307	11.4	59.5	78.3	29.9	63.1	36.2	0.9	62.2		
2000	312	12.0	59.7	78.6	28.0	46.1	51.3	2.6	72.8		
2001	305	12.1	60.8	80.0	29.1	49.0	49.2	1.8	74.1		
4/84		<u> </u>			1 <u>(1 1 4</u>)	004 14 1			1000 0/		

 $\frac{1}{1}$ / May not add to 100 percent due to rounding. $\frac{2}{1}$ / NIR hardness started in 1991. It changed to SKCS hardness in 1998. $\frac{3}{1}$ / New conversion procedures for 1997 as noted on page 23.

WHEAT QUALITY PROFILE, 1992-2001 COMPOSITED SAMPLES

	Wet Gluten	Dry Gluten	Falling		Phy	sical Dough	Test					
Year	Year 14% M.B. 14% M.B. Number 1/ 1/ 2/ 1/		Number	Number Farinograph								
			Absorption	Peak Time	Stability	Valorimeter	Softening					
	Percent Secor		Seconds	Percent	Minutes De							
1992	29.1	10.8	NA	58.8	5.8	13	66	NA				
1993	25.1	9.8	NA	54.9	5.6	16	63	NA				
1994	28.7	10.8	NA	56.1	6.3	17	68	NA				
1995	30.4	11.1	NA	56.6	5.7	13	64	NA				
1996	32.4	12.6	NA	57.8	6.1	11	67	NA				
1997	24.5	9.5	NA	55.2	4.2	13	62	NA				
1998	25.3	10.6	NA	57.7	4.0	12	59	NA				
1999	28.5	10.3	363	54.9	3.4	16	NA	45				
2000	27.2	11.1	412	57.7	4.9	12	NA	30				
2001	27.5	10.1	NA	57.3	5.3	10	NA	66				

1/. Gluten is for flour in 1988-1996. Beginning in 1997, Gluten is for wheat. 2/ 14% moisture basis.

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