



Grain Inspection,
Packers and
Stockyards
Administration

Federal Grain
Inspection
Service

2006 U.S. Grain Exports: Quality Report



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Introduction

The 2006 *U.S. Grain Exports: Quality Report* is produced by the Federal Grain Inspection Service (FGIS) of the U.S. Department of Agriculture's Grain Inspection, Packers and Stockyards Administration. The report is the result of FGIS' efforts to determine, document, and disseminate critical information regarding U.S. export grain quality.

The 2006 report is the twenty-third edition of this annual summary of export grain quality. The report summarizes the quality of export wheat, corn, soybeans, sorghum, barley, sunflower seeds, canola, and flaxseed. Canola, mixed grain, rye, and sunflower seed are not included in this year's report; no lots have been reported in the past 3 years.

Organization of the Report

The report contains chapters addressing export wheat, export corn, export soybeans, and other grains. Each chapter contains:

- * standards and definitions for each grain,
- * tables that clearly illustrate all factor result averages at each applicable U.S. grade level, and
- * factor quality distribution graphs for selected factors.

In addition, an appendix contains figures illustrating select quantity and quality trends over time.

Methodology

FGIS collects and documents information about export grain shipments in the automated Export Grain Information System (EGIS). This system contains one record for each export lot inspected and/or weighed. In the case of some railcar exports, each record may contain information from several lots which were aggregated to simplify internal reporting. For the purposes of this export quality report, only information from waterborne export shipments were used. Waterborne export shipments represented 92.7 percent of the total export lots in the EGIS database for 2006.

Generally, each EGIS record contains the quantity of the lot and the average factor results certified for the lot. The tables in this report contain descriptive statistics which summarize these lot quantities and the weighted averages. Where appropriate, tables are provided which show the number of lots and the quantity of grain which was used to generate the descriptive statistics. Many of the tables summarize factor averages by grade.

A U.S. grade is determined by analyzing the physical and biological factors present in the sample. Limits for the grading factors are established for each numerical grade. Grades range from U.S. No. 1 (highest) to U.S. Sample grade (lowest). When a particular grade is cited in this report, it includes lots certified at that grade plus lots certified with the "or better" designation. For example, U.S. No. 2 grade includes lots which were certificated as "U.S. No. 2" and lots certificated as "U.S. No. 2 or better." Factors that exceed the established limits, except for test weight, lower the grade. The established limits for test weight represent minimum requirements for each grade.

This report does not contain data on the volume of export grain in bushels. Listed below are the equations for converting the approximate quantity of grain from metric tons to bushels.

Conversion Equation

$$\text{Bushels} = \frac{\text{Metric Tons} \times 2204.622 \text{ Pounds}}{\text{Legal Test Weight/Bushel of Grain}}$$

Legal Test Weight Per Bushel for Specific Grains

Wheat =	60 pounds/bushel
Corn =	56 pounds/bushel
Soybeans =	60 pounds/bushel
Canola =	50 pounds/bushel
Sorghum =	56 pounds/bushel
Barley =	48 pounds/bushel
Sunflower Seed =	28 pounds/bushel
Rye =	56 pounds/bushel
Oats =	32 pounds/bushel

Export Wheat

Wheat Grades and Grade Requirements

Wheat is divided into eight classes: Hard Red Spring wheat, Hard Red Winter wheat, Soft Red Winter wheat, Durum wheat, Hard White wheat, Soft White wheat, Unclassed wheat, and Mixed wheat. The classes Hard Red Spring wheat, Soft White wheat, and Durum wheat are further divided into subclasses. There are no subclasses in the classes Hard Red Winter wheat, Soft Red Winter wheat, Hard

White wheat, Unclassed wheat, and Mixed wheat. Each class and subclass is divided into five U.S. numerical grades and U.S. Sample grade. Special grades are provided to emphasize special qualities or conditions affecting the value of wheat. Special grades are added to and made a part of the grade designation. They do not affect the numerical or Sample grade designation.

U.S. Standards for Wheat

Grade	Minimum limits of --		Maximum limits of --						
	Test weight per bushel		Damaged kernels		Foreign Material	Shrunken and broken kernels	Defects ³ (total)	Wheat of other classes ⁴	
	Hard Red Spring wheat or White Club wheat ¹ (pounds)	All other classes and subclasses (pounds)	Heat-damaged kernels (percent)	Total ² (percent)				Contrasting classes (percent)	Total ⁵ (percent)
U.S. No. 1	58.0	60.0	0.2	2.0	0.4	3.0	3.0	1.0	3.0
U.S. No. 2	57.0	58.0	0.2	4.0	0.7	5.0	5.0	2.0	5.0
U.S. No. 3	55.0	56.0	0.5	7.0	1.3	8.0	8.0	3.0	10.0
U.S. No. 4	53.0	54.0	1.0	10.0	3.0	12.0	12.0	10.0	10.0
U.S. No. 5	50.0	51.0	3.0	15.0	5.0	20.0	20.0	10.0	10.0
U.S. Sample grade									

U.S. Sample grade is wheat that:

- Does not meet the requirements for the grades U.S. Nos. 1, 2, 3, 4, or 5; or
- Contains 32 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, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), 2 or more rodent pellets, bird dropping, or an equivalent quantity of other animal filth, five or more pieces of animal filth, castor beans, crotalaria seeds, glass, stones, or unknown foreign substances, in combination, 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.

¹ These requirements also apply when Hard Red Spring or White Club wheat predominates in a sample of Mixed wheat.

² Includes heat-damaged kernels.

³ Defects include damaged kernels (total), foreign material, and shrunken and broken kernels. The sum of these three factors may not exceed the limit for defects for each numerical grade.

⁴ Unclassed wheat of any grade may contain not more than 10.0 percent of wheat of other classes.

⁵ Includes contrasting classes.

Wheat

Definitions

Test weight (lb/bu) is pounds of grain per Winchester bushel, determined by an approved device after the removal of dockage.

Test weight (kg/hl) is the metric system equivalent to pounds per bushel. Kilograms per hectoliter are calculated as follows:

For **Durum** wheat, multiply pounds per bushel by 1.292 and add 0.630. For **all other classes of wheat**, multiply pounds per bushel by 1.292 and add 1.419.

Heat-damaged kernels are kernels, pieces of wheat kernels, and other grains which have been materially discolored and damaged by heat.

Damaged kernels (total) are kernels, pieces of wheat kernels, and other grains that are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, heat-damaged, insect bored, mold-damaged, sprout-damaged, or otherwise materially damaged.

Foreign material is all matter other than wheat which remains in a sample after removal of dockage and shrunken and broken kernels.

Shrunken and broken kernels are kernels, kernel pieces, and other matter that pass through a 0.064-by 3/8-inch oblong-hole sieve.

Total defects are the sum of three factors: damaged kernels (total), shrunken and broken kernels, and foreign material. In the factor summary tables, the average values listed for total defects may not equal the sum of the component factor averages due to rounding.

Dockage includes all matter other than wheat that can be removed from the original sample by use of an approved device. The percentage of dockage in a sample does not affect the numerical grade.

Moisture is the water content of grain as determined by an approved electronic moisture meter. The percentage of moisture in a sample does not affect the numerical grade.

Contrasting classes include:

- * Durum, Soft White, and Unclassed wheats in the classes Hard Red Spring and Hard Red Winter wheats.
- * Hard Red Spring, Hard Red Winter, Hard White, Soft Red Winter, Soft White, and Unclassed wheats in the class Durum wheat.
- * Durum and Unclassed wheats in the class Soft Red Winter wheat.
- * Durum, Hard Red Spring, Hard Red Winter, Soft Red Winter and Unclassed wheats in the classes Hard White wheat and Soft White wheat.

Wheat of other classes is any class that is mixed with the predominant class.

Protein is the protein content of grain as determined by an approved near infrared transmittance (NIRT) instrument calibrated against a Combustion Nitrogen Analyzer, or CNA (percent nitrogen multiplied by 5.7). The percentage of protein in a sample does not affect the numerical grade. Protein is certified on a 12 percent moisture basis.

Mixed wheat is a combination of classes of wheat which does not meet the minimum requirements of a specific class.

Table 1. U.S. Wheat Exports: Number of lots and quantity exported by class and grade, 2004-2006

Class	Grade	2004		2005		2006	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Hard Red Winter Wheat	U.S. No. 1	83	591,196	76	533,475	75	467,741
	U.S. No. 2	735	10,875,474	658	9,499,312	466	6,937,258
	U.S. No. 3	--	--	3	6,658	--	--
	All lots	818	11,466,670	737	10,039,445	541	7,404,999
Hard Red Spring Wheat	U.S. No. 1	133	1,435,632	129	1,327,996	121	1,084,861
	U.S. No. 2	516	6,781,047	551	6,558,133	439	5,222,860
	U.S. No. 3	--	--	1	7,753	5	32,404
	U.S. Sample Grade	--	--	1	5,700	--	--
	All lots	649	8,216,679	682	7,899,582	565	6,340,125
Soft Red Winter Wheat	U.S. No. 1	--	--	--	--	1	1,562
	U.S. No. 2	277	3,544,041	237	1,676,795	268	2,552,189
	U.S. No. 3	16	111,396	34	262,026	9	97,797
	U.S. No. 4	--	--	2	18,997	--	--
	U.S. No. 5	--	--	1	6,268	--	--
	U.S. Sample Grade	--	--	--	--	--	--
	No inspected	--	--	--	--	1	5,500
	All lots	293	3,655,437	274	1,964,086	279	2,657,048
Durum Wheat	U.S. No. 1	36	254,097	66	457,784	69	644,971
	U.S. No. 2	48	483,674	43	348,455	40	257,527
	U.S. No. 3	2	7,016	2	19,300	6	90,256
	U.S. No. 4	--	--	1	9,172	1	5,000
	U.S. No. 5	--	--	--	--	--	--
	U.S. Sample Grade	--	--	--	--	--	--
	Not Inspected	--	--	2	16,122	--	--
	All lots	86	744,787	114	850,833	116	997,754
Soft White Wheat	U.S. No. 1	180	749,761	157	677,564	145	640,925
	U.S. No. 2	229	5,027,947	206	4,128,999	215	4,145,569
	All lots	409	5,777,708	363	4,806,563	360	4,786,494
Hard White Wheat	U.S. No. 1	1	8,200	6	11,611	1	10,426
	U.S. No. 2	7	55,539	2	22,512	1	9,300
	U.S. No. 3	4	57,766	1	8,328	--	--
	U.S. No. 4	1	18,761	5	54,981	--	--
	All lots	13	140,266	14	97,432	2	19,726

-- = No lots reported in this category.

continued

Table 1. U.S. Wheat Exports: Number of lots and quantity exported by class and grade, 2004-2006, continued

Class	Grade	2004		2005		2006	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
All Classes	U.S. No. 1	433	3,038,886	434	3,008,430	412	2,850,486
	U.S. No. 2	1,812	26,767,722	1,697	22,234,206	1,429	19,124,703
	U.S. No. 3	22	176,178	41	304,065	20	220,457
	U.S. No. 4	1	18,761	8	83,150	1	5,000
	U.S. No. 5	--	--	1	6,268	--	--
	U.S. Sample Grade	--	--	1	5,700	--	--
	Not Inspected	--	--	2	16,122	1	5,500
	All lots	2,268	30,001,547	2,184	25,657,941	1,863	22,206,146

-- = No lots reported in this category.

Table 2. Summary of export Hard Red Winter wheat quality, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	60.0	83	61.8	60.3	63.5	76	61.9	60.3	63.3	75	62.4	60.3	64.0
	U.S.No. 2	58.0	733	60.8	58.0	64.0	658	61.0	58.5	63.8	466	61.2	58.7	64.0
	U.S.No. 3		--	--	--	--	3	60.0	59.3	61.3	--	--	--	--
	All lots	N/A	816	60.9	58.0	64.0	737	61.0	58.5	63.8	541	61.3	58.7	64.0
Test Weight (kg/hl)	U.S.No. 1	N/A	83	81.2	79.3	83.4	76	81.4	79.3	83.2	75	82.1	79.3	84.1
	U.S.No. 2	N/A	733	80.0	76.4	84.1	658	80.2	77.0	83.8	466	80.5	77.3	84.1
	U.S.No. 3	N/A	--	--	--	--	3	78.9	78.0	80.6	--	--	--	--
	All lots	N/A	816	80.0	76.4	84.1	737	80.3	77.0	83.8	541	80.6	77.3	84.1
Moisture	U.S.No. 1	N/A	83	10.4	8.2	12.6	76	10.7	9.4	12.5	75	9.7	8.3	12.2
	U.S.No. 2	N/A	733	11.7	8.0	13.2	658	11.5	8.8	12.9	466	10.9	8.3	12.4
	U.S.No. 3	N/A	--	--	--	--	3	11.9	11.3	12.2	--	--	--	--
	All lots	N/A	816	11.6	8.0	13.2	737	11.4	8.8	12.9	540	10.8	8.3	12.4
Heat-damaged Kernels	U.S.No. 1	0.2	83	0.0	0.0	0.0	76	0.0	0.0	0.0	75	0.0	0.0	0.1
	U.S.No. 2	0.2	733	0.0	0.0	0.1	658	0.0	0.0	0.1	466	0.0	0.0	0.2
	U.S.No. 3		--	--	--	--	3	0.0	0.0	0.1	--	--	--	--
	All lots	N/A	816	0.0	0.0	0.1	737	0.0	0.0	0.1	541	0.0	0.0	0.2
Damaged Kernels (Total)	U.S.No. 1	2.0	83	0.1	0.0	1.1	76	0.2	0.0	1.2	75	0.2	0.0	1.4
	U.S.No. 2	4.0	733	1.2	0.0	3.6	658	1.1	0.0	3.4	466	0.8	0.0	2.3
	U.S.No. 3		--	--	--	--	3	1.4	0.5	4.1	--	--	--	--
	All lots	N/A	816	1.2	0.0	3.6	737	1.0	0.0	4.1	541	0.8	0.0	2.3
Foreign Material	U.S.No. 1	0.4	83	0.1	0.0	0.3	76	0.1	0.0	0.4	75	0.1	0.0	0.3
	U.S.No. 2	0.7	733	0.2	0.0	0.6	658	0.2	0.0	0.7	466	0.2	0.0	0.6
	U.S.No. 3		--	--	--	--	3	0.3	0.2	0.4	--	--	--	--
	All lots	N/A	816	0.2	0.0	0.6	737	0.2	0.0	0.7	541	0.2	0.0	0.6
Shrunken and Broken	U.S.No. 1	3.0	83	1.5	0.7	2.2	76	1.4	0.7	2.0	75	1.4	0.2	2.3
	U.S.No. 2	5.0	733	1.6	0.6	3.1	658	1.5	0.5	2.4	466	1.6	0.0	2.5
	U.S.No. 3		--	--	--	--	3	1.9	1.6	2.6	--	--	--	--
	All lots	N/A	816	1.6	0.6	3.1	737	1.5	0.5	2.6	541	1.6	0.0	2.5
Total Defects¹	U.S.No. 1	3.0	83	1.7	0.9	2.4	76	1.8	0.8	2.8	75	1.7	0.4	2.7
	U.S.No. 2	5.0	733	3.0	0.7	5.0	658	2.8	1.1	4.7	466	2.7	0.0	4.3
	U.S.No. 3		--	--	--	--	3	3.5	2.6	6.4	--	--	--	--
	All lots	N/A	816	3.0	0.7	5.0	737	2.8	0.8	6.4	541	2.6	0.0	4.3
Dockage	U.S.No. 1	N/A	83	0.3	0.1	0.5	76	0.3	0.1	0.4	75	0.3	0.1	0.5
	U.S.No. 2	N/A	735	0.6	0.1	1.1	658	0.6	0.1	1.2	464	0.6	0.1	1.3
	U.S.No. 3	N/A	--	--	--	--	3	1.0	0.8	1.4	--	--	--	--
	All lots	N/A	818	0.6	0.1	1.1	737	0.6	0.1	1.4	539	0.6	0.1	1.3

continued

Table 2. Summary of export Hard Red Winter wheat quality, 2004-2006--Continued

Factor	Grade	Grade Limit	2004			2005			2006					
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Wheat of Other Classes	U.S.No. 1	3.0	83	0.8	0.0	2.7	76	0.9	0.0	2.5	75	1.0	0.0	2.1
	U.S.No. 2	5.0	733	1.2	0.0	4.7	658	1.1	0.0	4.9	466	1.4	0.0	4.2
	U.S.No. 3		--	--	--	--	3	2.1	0.1	6.5	--	--	--	--
	All lots	N/A	816	1.2	0.0	4.7	737	1.1	0.0	6.5	541	1.4	0.0	4.2
Contrasting Classes	U.S.No. 1	1.0	83	0.3	0.0	1.0	76	0.3	0.0	0.9	75	0.3	0.0	1.0
	U.S.No. 2	2.0	733	0.3	0.0	1.9	658	0.3	0.0	1.9	466	0.4	0.0	1.8
	U.S.No. 3		--	--	--	--	3	0.2	0.0	0.5	--	--	--	--
	All lots	N/A	816	0.3	0.0	1.9	737	0.3	0.0	1.9	541	0.4	0.0	1.8
Protein (as is basis)	U.S.No. 1	N/A	83	12.7	11.4	14.2	76	12.6	11.4	13.4	75	12.7	11.7	13.5
	U.S.No. 2	N/A	706	12.0	10.4	14.3	638	12.2	10.5	14.1	455	12.4	10.9	15.3
	U.S.No. 3		--	--	--	--	3	11.8	11.7	12.2	--	--	--	--
	All lots	N/A	789	12.0	10.4	14.3	717	12.2	10.5	14.1	530	12.4	10.9	15.3
Protein (12% moisture)	U.S.No. 1	N/A	83	12.5	11.5	13.6	76	12.4	11.5	13.2	75	12.4	11.5	13.5
	U.S.No. 2	N/A	706	11.9	10.2	13.8	638	12.1	10.4	14.0	456	12.2	10.8	15.1
	U.S.No. 3		--	--	--	--	3	11.8	11.7	12.1	--	--	--	--
	All lots	N/A	789	12.0	10.2	13.8	717	12.1	10.4	14.0	531	12.2	10.8	15.1

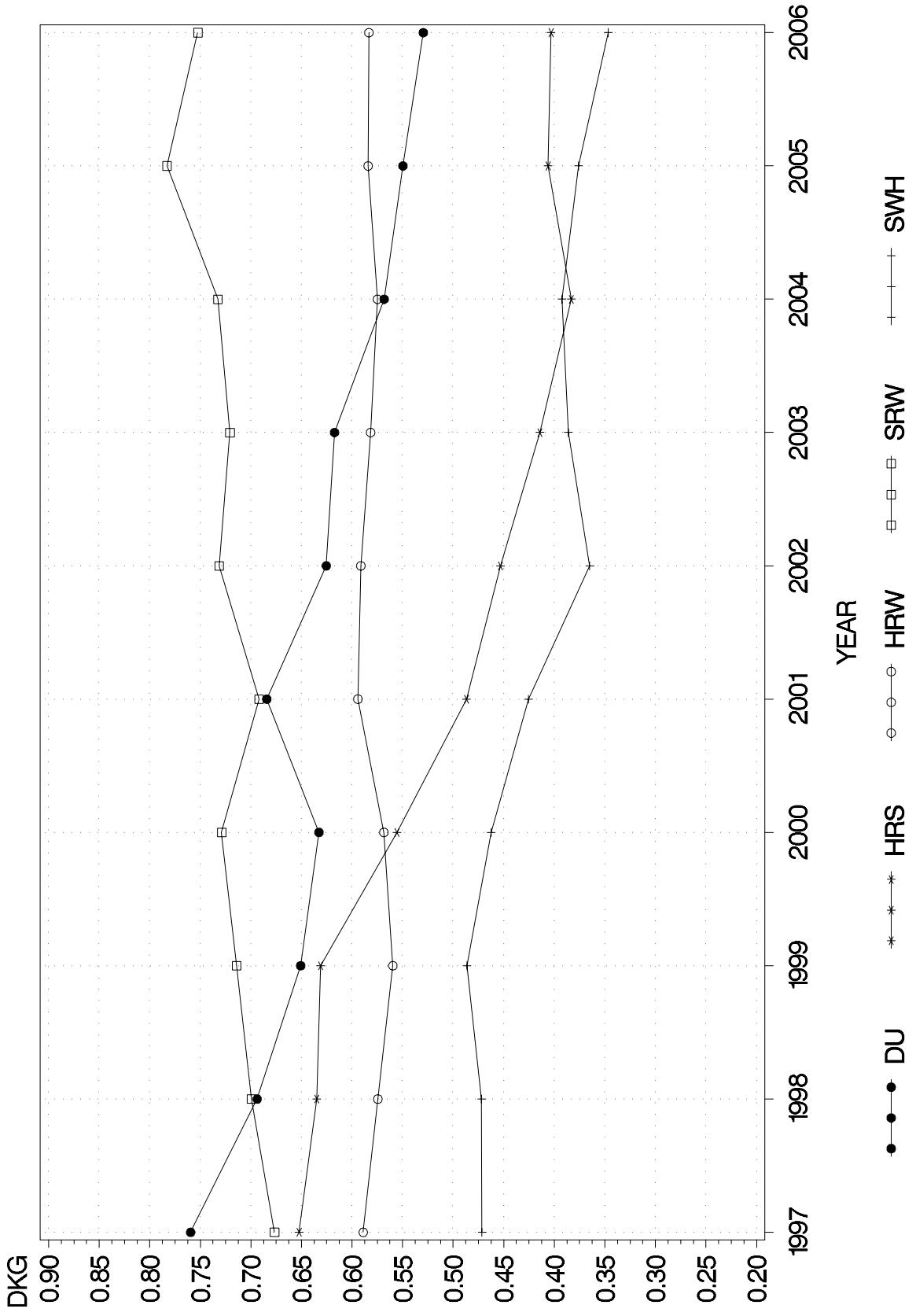
N/A = Does not apply.

-- = No lots reported in this category.

¹The sum of the component factor averages may not equal the average for this factor due to rounding.

U.S. WHEAT EXPORTED, 1997--2006

AVG DOCKAGE BY CLASS



U.S. WHEAT EXPORTED, 1997–2006

AVG PROTEIN(12% M) BY CLASS

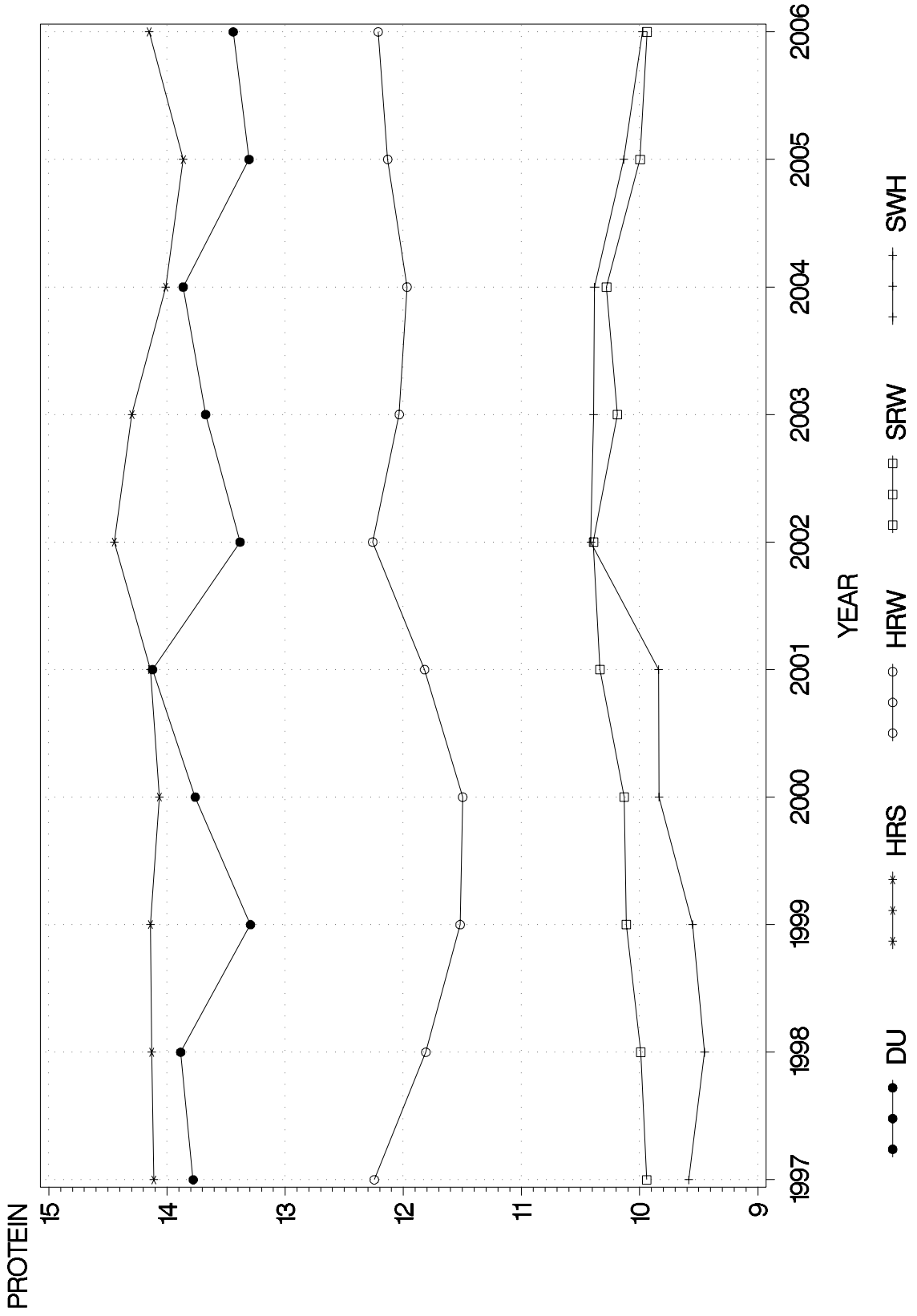


Table 3. Summary of export Hard Red Spring wheat quality, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	58.0	133	61.6	59.6	63.5	127	61.3	60.0	62.5	119	61.0	59.8	63.2
	U.S.No. 2	57.0	516	61.6	59.3	63.4	550	61.2	58.9	63.0	439	61.1	58.5	63.0
	U.S.No. 3	55.0	-	-	-	-	1	61.2	61.2	61.2	5	60.4	59.8	60.8
	U.S. Sample Grade		-	-	-	-	1	62.5	62.5	62.5	-	-	-	-
	All lots	N/A	649	61.6	59.3	63.5	679	61.2	58.9	63.0	563	61.1	58.5	63.2
Test Weight (kg/hl)	U.S.No. 1	N/A	133	80.9	78.4	83.5	127	80.6	78.9	82.2	119	80.3	78.6	83.1
	U.S.No. 2	N/A	516	81.0	78.0	83.3	550	80.4	77.5	82.9	439	80.4	77.1	82.9
	U.S.No. 3	N/A	-	-	-	-	1	80.5	80.5	80.5	5	79.5	78.7	80.0
	U.S. Sample Grade		-	-	-	-	1	82.1	82.1	82.1	-	-	-	-
	All lots	N/A	649	81.0	78.0	83.5	679	80.5	77.5	82.9	563	80.4	77.1	83.1
Moisture	U.S.No. 1	N/A	133	11.7	8.9	13.4	127	12.1	9.6	13.5	119	11.6	8.9	14.0
	U.S.No. 2	N/A	516	12.1	9.0	14.0	550	12.5	9.5	13.6	439	12.2	8.9	13.8
	U.S.No. 3	N/A	-	-	-	-	1	13.5	13.5	13.5	5	13.5	13.3	13.9
	U.S. Sample Grade		-	-	-	-	1	13.1	13.1	13.1	-	-	-	-
	All lots	N/A	649	12.1	8.9	14.0	679	12.4	9.5	13.6	563	12.1	8.9	14.0
Heat-damaged Kernels	U.S.No. 1	0.2	133	0.0	0.0	0.0	127	0.0	0.0	0.0	119	0.0	0.0	0.1
	U.S.No. 2	0.2	516	0.0	0.0	0.1	550	0.0	0.0	0.1	439	0.0	0.0	0.2
	U.S.No. 3	0.5	-	-	-	-	1	0.0	0.0	0.0	5	0.0	0.0	0.0
	U.S. Sample Grade		-	-	-	-	1	0.0	0.0	0.0	-	-	-	-
	All lots	N/A	649	0.0	0.0	0.1	679	0.0	0.0	0.1	563	0.0	0.0	0.2
Damaged Kernels (Total)	U.S.No. 1	2.0	133	0.5	0.0	1.5	127	0.7	0.0	1.8	119	0.7	0.0	1.9
	U.S.No. 2	4.0	516	0.8	0.0	3.5	550	1.3	0.0	3.7	439	1.2	0.0	3.7
	U.S.No. 3	7.0	-	-	-	-	1	1.4	1.4	1.4	5	1.4	0.9	2.9
	U.S. Sample Grade		-	-	-	-	1	17.4	17.4	17.4	-	-	-	-
	All lots	N/A	649	0.7	0.0	3.5	679	1.2	0.0	17.4	563	1.1	0.0	3.7
Foreign Material	U.S.No. 1	0.4	133	0.1	0.0	0.3	127	0.1	0.0	0.2	119	0.1	0.0	0.4
	U.S.No. 2	0.7	516	0.1	0.0	0.5	550	0.1	0.0	0.6	439	0.1	0.0	0.6
	U.S.No. 3	1.3	-	-	-	-	1	0.2	0.2	0.2	5	0.2	0.1	0.3
	U.S. Sample Grade		-	-	-	-	1	0.2	0.2	0.2	-	-	-	-
	All lots	N/A	649	0.1	0.0	0.5	679	0.1	0.0	0.6	563	0.1	0.0	0.6
Shrunken and Broken	U.S.No. 1	3.0	133	1.4	0.5	2.3	127	1.3	0.6	2.2	119	1.5	0.6	2.4
	U.S.No. 2	5.0	516	1.3	0.5	2.6	550	1.2	0.5	2.5	439	1.4	0.4	2.9
	U.S.No. 3	8.0	-	-	-	-	1	0.8	0.8	0.8	5	0.8	0.7	1.0
	U.S. Sample Grade		-	-	-	-	1	0.7	0.7	0.7	-	-	-	-
	All lots	N/A	649	1.3	0.5	2.6	679	1.2	0.5	2.5	563	1.4	0.4	2.9

continued

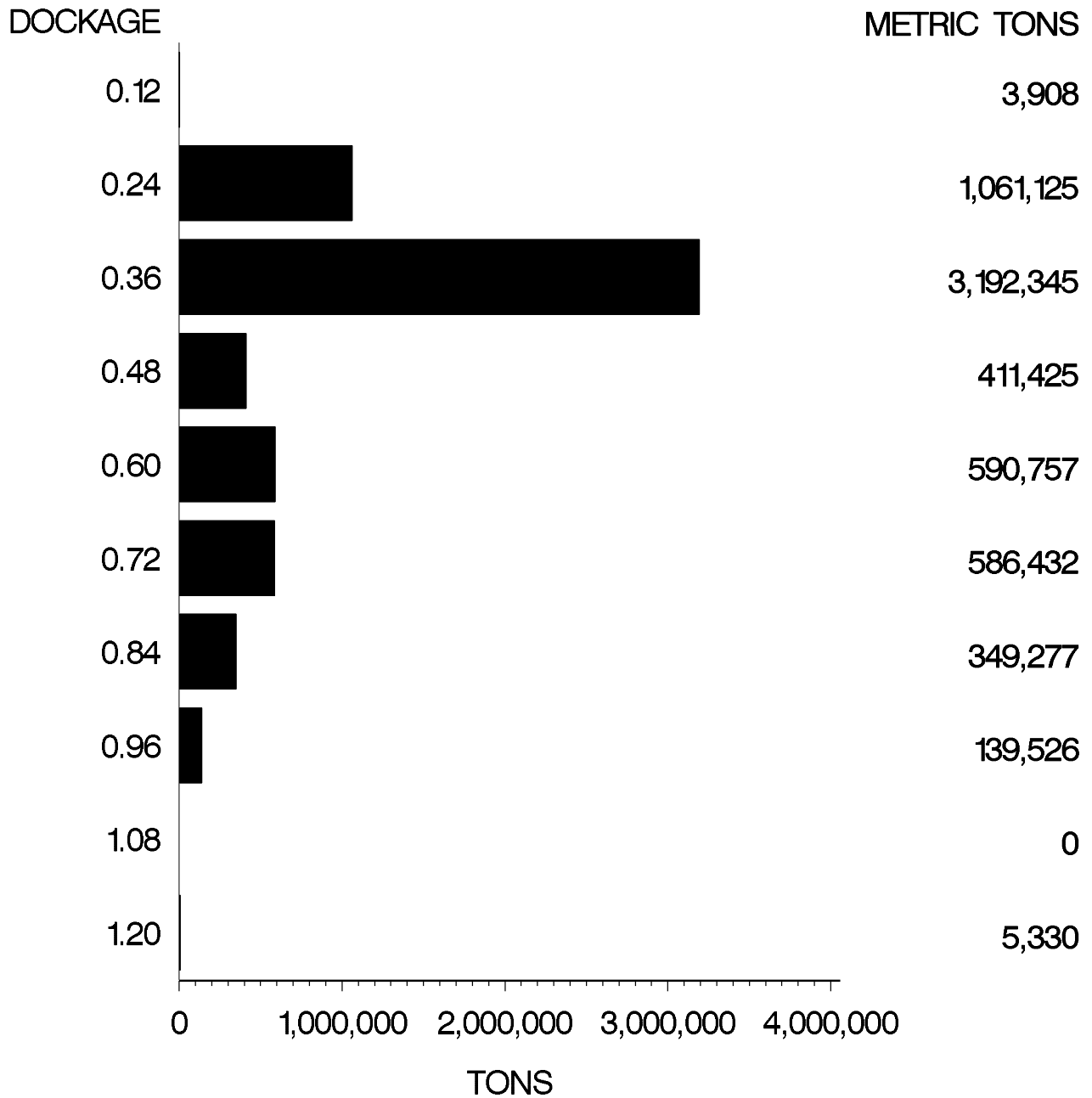
Table 3. Summary of export Hard Red Spring wheat quality, 2004-2006--Continued

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Total Defects¹	U.S.No. 1	3.0	133	2.0	1.0	2.9	127	2.1	0.9	3.0	119	2.3	1.1	3.0
	U.S.No. 2	5.0	516	2.2	0.6	4.6	550	2.6	0.9	4.7	439	2.8	1.2	5.0
	U.S.No. 3	8.0	--	--	--	--	1	2.4	2.4	2.4	5	2.3	1.8	4.0
	U.S. Sample Grade		--	--	--	--	1	18.3	18.3	18.3	--	--	--	--
	All lots	N/A	649	2.1	0.6	4.6	679	2.5	0.9	18.3	563	2.7	1.1	5.0
Dockage	U.S.No. 1	N/A	133	0.3	0.2	0.6	129	0.3	0.1	0.7	121	0.3	0.1	1.2
	U.S.No. 2	N/A	515	0.4	0.1	1.0	551	0.4	0.1	1.0	439	0.4	0.1	1.0
	U.S.No. 3	N/A	--	--	--	--	1	0.2	0.2	0.2	5	0.3	0.3	0.6
	U.S. Sample Grade	N/A	--	--	--	--	1	0.4	0.4	0.4	--	--	--	--
	All lots	N/A	648	0.4	0.1	1.0	682	0.4	0.1	1.0	565	0.4	0.1	1.2
Wheat of Other Classes	U.S.No. 1	3.0	133	0.8	0.0	2.9	127	0.9	0.0	2.7	119	0.8	0.0	2.7
	U.S.No. 2	5.0	516	1.1	0.0	4.4	550	1.2	0.0	4.8	439	1.2	0.0	4.8
	U.S.No. 3	10.0	--	--	--	--	1	0.6	0.6	0.6	5	0.5	0.0	1.2
	U.S. Sample Grade		--	--	--	--	1	0.5	0.5	0.5	--	--	--	--
	All lots	N/A	649	1.1	0.0	4.4	679	1.2	0.0	4.8	563	1.2	0.0	4.8
Contrasting Classes	U.S.No. 1	1.0	133	0.2	0.0	1.0	127	0.2	0.0	1.0	119	0.3	0.0	1.0
	U.S.No. 2	2.0	516	0.3	0.0	1.6	550	0.2	0.0	1.9	439	0.3	0.0	1.8
	U.S.No. 3	3.0	--	--	--	--	1	0.0	0.0	0.0	5	0.0	0.0	0.2
	U.S. Sample Grade		--	--	--	--	1	0.1	0.1	0.1	--	--	--	--
	All lots	N/A	649	0.2	0.0	1.6	679	0.2	0.0	1.9	563	0.3	0.0	1.8
Protein (as is basis)	U.S.No. 1	N/A	133	14.2	13.3	15.2	127	14.0	12.8	14.9	118	14.4	12.9	15.4
	U.S.No. 2	N/A	509	13.9	12.4	15.9	549	13.7	12.2	15.3	438	14.1	12.2	15.9
	U.S.No. 3	N/A	--	--	--	--	1	13.0	13.0	13.0	4	12.8	12.3	14.1
	U.S. Sample Grade	N/A	--	--	--	--	1	13.7	13.7	13.7	--	--	--	--
	All lots	N/A	642	14.0	12.4	15.9	678	13.8	12.2	15.3	560	14.1	12.2	15.9
Protein (12% moisture)	U.S.No. 1	N/A	133	14.1	13.5	14.9	127	14.0	13.0	15.1	118	14.3	13.2	15.3
	U.S.No. 2	N/A	509	14.0	12.1	15.6	549	13.8	12.0	15.3	438	14.1	12.5	15.6
	U.S.No. 3	N/A	--	--	--	--	1	13.2	13.2	13.2	4	13.1	12.5	14.3
	U.S. Sample Grade	N/A	--	--	--	--	1	13.9	13.9	13.9	--	--	--	--
	All lots	N/A	642	14.0	12.1	15.6	678	13.8	12.0	15.3	560	14.2	12.5	15.6

N/A = Does not apply.

¹The sum of the component factor averages may not equal the average for this factor due to rounding.

U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR DOCKAGE – ALL GRADES
HRS



U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
HRS

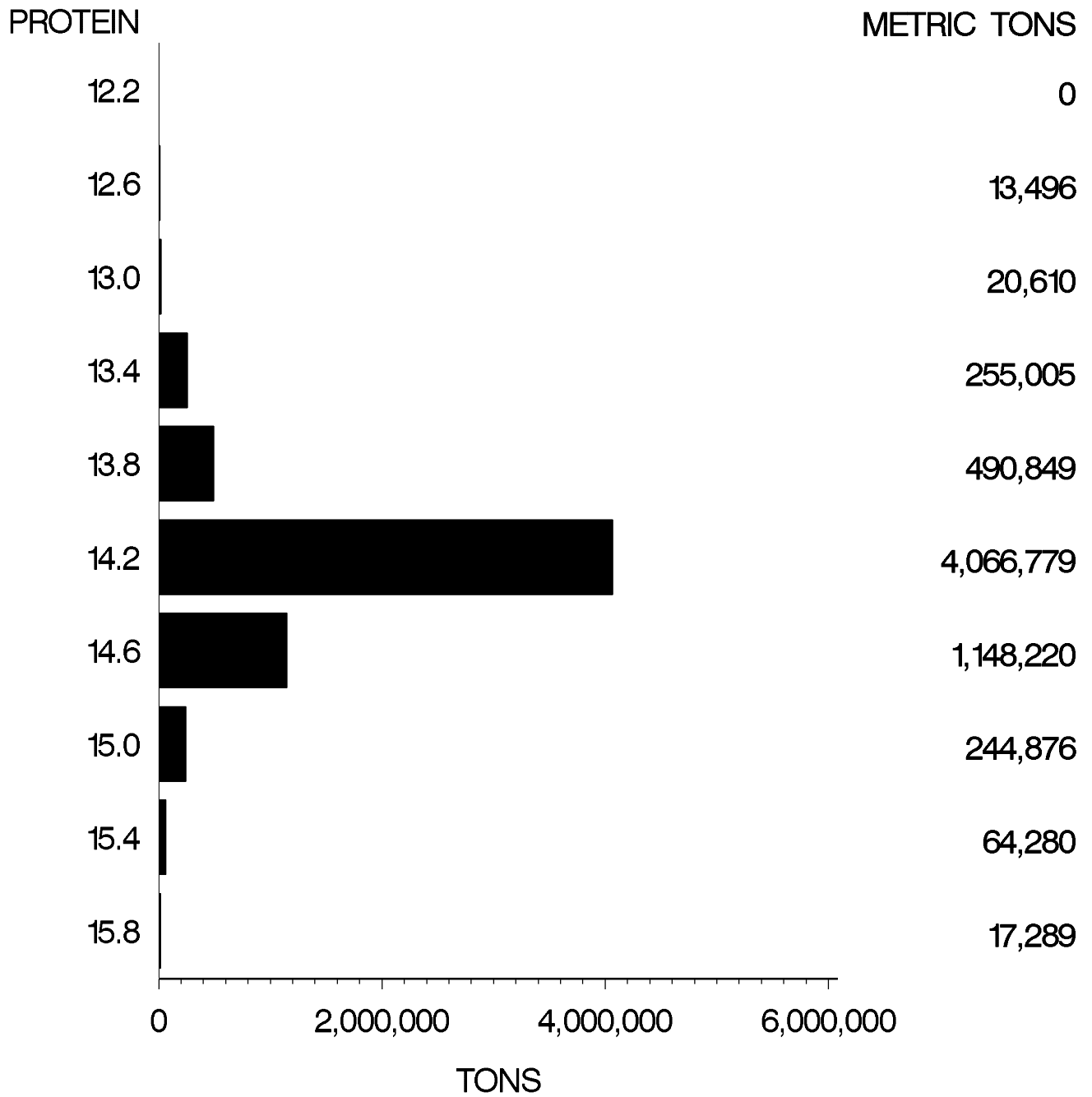


Table 4. Summary of export Soft Red Winter wheat quality, factor averages by grade, 2004-2006

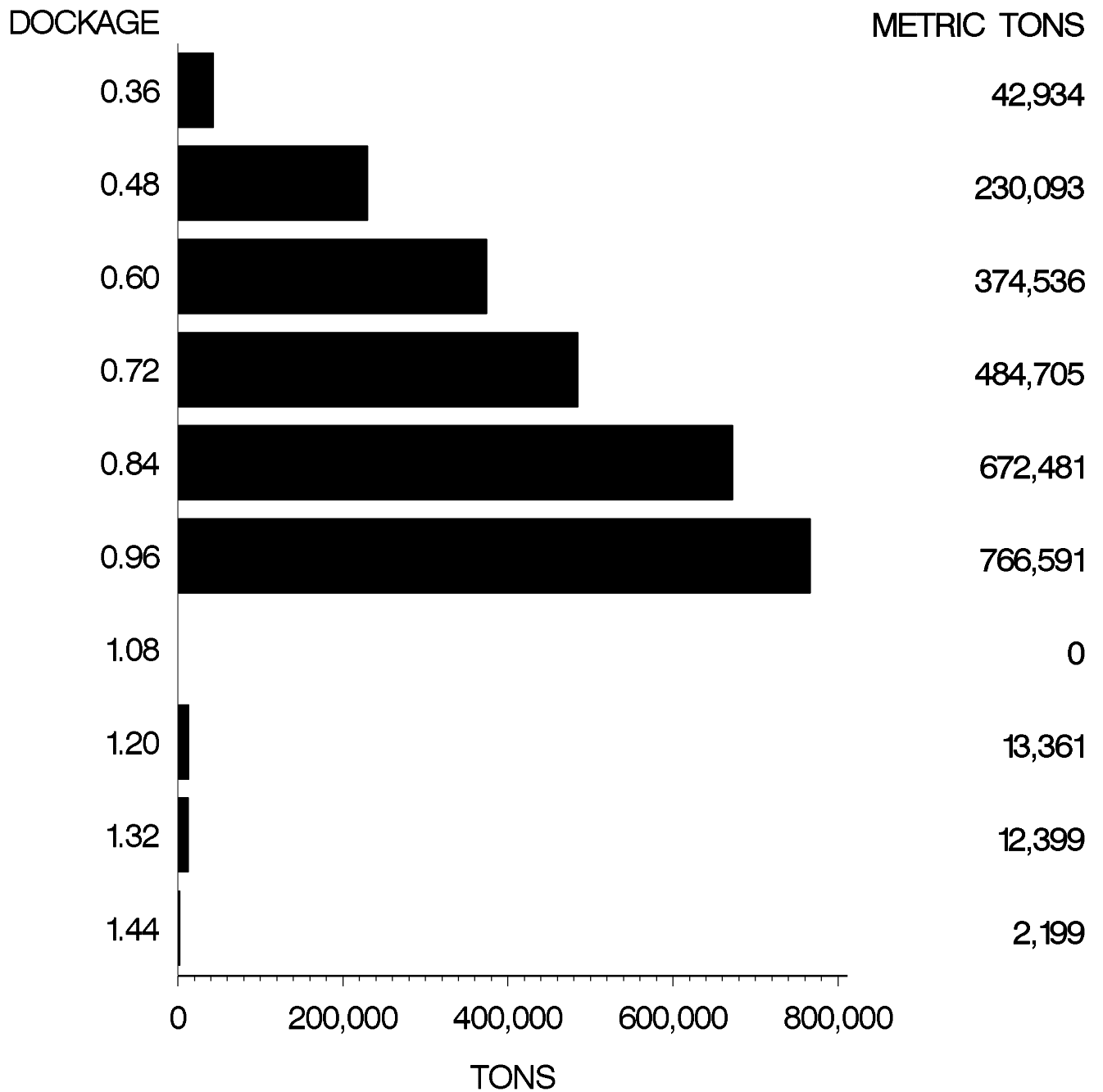
Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S. No. 1	60.0	--	--	--	--	--	--	--	--	1	60.2	60.2	60.2
	U.S. No. 2	58.0	277	58.9	58.0	62.2	237	59.7	58.0	61.4	268	59.8	58.0	62.4
	U.S. No. 3	56.0	16	58.1	56.8	59.7	34	58.0	57.0	60.0	9	60.2	59.4	62.2
	U.S. No. 4		--	--	--	--	2	58.6	58.2	58.8	--	--	--	--
	U.S. No. 5		--	--	--	--	1	58.1	58.1	58.1	--	--	--	--
	All lots	N/A	293	58.9	56.8	62.2	274	59.5	57.0	61.4	278	59.8	58.0	62.4
Test Weight (kg/hl)	U.S. No. 1	N/A	--	--	--	--	--	--	--	--	1	79.2	79.2	79.2
	U.S. No. 2	N/A	277	77.6	76.4	81.7	237	78.6	76.4	80.7	268	78.7	76.4	82.1
	U.S. No. 3	N/A	16	76.5	74.8	78.5	34	76.4	75.1	79.0	9	79.2	78.2	81.7
	U.S. No. 4		--	--	--	--	2	77.2	76.7	77.4	--	--	--	--
	U.S. No. 5		--	--	--	--	1	76.4	76.4	76.4	--	--	--	--
	All lots	N/A	293	77.5	74.8	81.7	274	78.2	75.1	80.7	278	78.7	76.4	82.1
Moisture	U.S. No. 1	N/A	--	--	--	--	--	--	--	--	1	13.4	13.4	13.4
	U.S. No. 2	N/A	277	13.1	11.9	14.0	237	13.1	12.4	13.5	268	12.9	12.1	13.5
	U.S. No. 3	N/A	16	13.0	12.3	13.3	34	13.0	12.6	13.5	9	12.8	12.7	13.0
	U.S. No. 4		--	--	--	--	2	13.0	13.0	13.0	--	--	--	--
	U.S. No. 5		--	--	--	--	1	13.4	13.4	13.4	--	--	--	--
	All lots	N/A	293	13.1	11.9	14.0	274	13.1	12.4	13.5	278	12.9	12.1	13.5
Heat-damaged Kernels	U.S. No. 1	0.2	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	U.S. No. 2	0.2	277	0.0	0.0	0.2	237	0.0	0.0	0.1	268	0.0	0.0	0.2
	U.S. No. 3	0.5	16	0.0	0.0	0.0	34	0.0	0.0	0.0	9	0.0	0.0	0.1
	U.S. No. 4		--	--	--	--	2	0.0	0.0	0.0	--	--	--	--
	U.S. No. 5		--	--	--	--	1	0.0	0.0	0.0	--	--	--	--
	All lots	N/A	293	0.0	0.0	0.2	274	0.0	0.0	0.1	278	0.0	0.0	0.2
Damaged Kernels (Total)	U.S. No. 1	2.0	--	--	--	--	--	--	--	--	1	0.5	0.5	0.5
	U.S. No. 2	4.0	277	2.7	0.6	3.9	237	2.5	0.5	4.0	268	2.1	0.4	4.0
	U.S. No. 3	7.0	16	3.9	1.5	6.8	34	3.8	1.0	5.7	9	4.9	1.4	6.3
	U.S. No. 4		--	--	--	--	2	5.9	4.9	6.4	--	--	--	--
	U.S. No. 5		--	--	--	--	1	8.6	8.6	8.6	--	--	--	--
	All lots	N/A	293	2.8	0.6	6.8	274	2.7	0.5	8.6	278	2.2	0.4	6.3
Foreign Material	U.S. No. 1	0.4	--	--	--	--	--	--	--	--	1	0.1	0.1	0.1
	U.S. No. 2	0.7	277	0.1	0.0	0.6	237	0.1	0.0	0.6	268	0.1	0.0	0.5
	U.S. No. 3	1.3	16	0.2	0.1	0.4	34	0.2	0.1	0.5	9	0.3	0.2	0.4
	U.S. No. 4		--	--	--	--	2	0.2	0.1	0.2	--	--	--	--
	U.S. No. 5		--	--	--	--	1	0.1	0.1	0.1	--	--	--	--
	All lots	N/A	293	0.1	0.0	0.6	274	0.1	0.0	0.6	278	0.1	0.0	0.5
Shrunken and Broken	U.S. No. 1	3.0	--	--	--	--	--	--	--	--	1	0.5	0.5	0.5
	U.S. No. 2	5.0	277	0.9	0.2	1.9	237	0.8	0.1	2.3	268	0.7	0.3	1.4
	U.S. No. 3	8.0	16	1.0	0.5	1.4	34	1.1	0.4	1.7	9	0.8	0.6	0.9
	U.S. No. 4		--	--	--	--	2	1.1	1.0	1.2	--	--	--	--
	U.S. No. 5		--	--	--	--	1	0.3	0.3	0.3	--	--	--	--
	All lots	N/A	293	0.9	0.2	1.9	274	0.9	0.1	2.3	278	0.7	0.3	1.4

continued

Table 4. Summary of export Soft Red Winter wheat quality, factor averages by grade, 2004-2006-Continued

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Total Defects¹	U.S.No. 1	3.0	--	--	--	--	--	--	--	--	1	1.1	1.1	1.1
	U.S.No. 2	5.0	277	3.7	1.1	5.0	237	3.4	0.7	5.0	268	2.9	0.9	5.0
	U.S.No. 3	8.0	16	5.1	3.1	7.9	34	5.1	1.5	7.1	9	5.9	2.2	7.3
	U.S.No. 4		--	--	--	--	2	7.2	6.2	7.6	--	--	--	--
	U.S.No. 5		--	--	--	--	1	9.0	9.0	9.0	--	--	--	--
	All lots	N/A	293	3.8	1.1	7.9	274	3.7	0.7	9.0	278	3.0	0.9	7.3
Dockage	U.S.No. 1	N/A	--	--	--	--	--	--	--	--	1	0.8	0.8	0.8
	U.S.No. 2	N/A	275	0.7	0.3	1.1	237	0.8	0.1	1.4	267	0.7	0.4	1.4
	U.S.No. 3	N/A	15	0.8	0.5	1.4	33	0.9	0.4	1.2	9	0.8	0.7	0.9
	U.S.No. 4		--	--	--	--	2	0.9	0.9	1.0	--	--	--	--
	U.S.No. 5		--	--	--	--	1	0.6	0.6	0.6	--	--	--	--
	All lots	N/A	290	0.7	0.3	1.4	273	0.8	0.1	1.4	277	0.8	0.4	1.4
Wheat of Other Classes	U.S.No. 1	3.0	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	U.S.No. 2	5.0	277	0.6	0.0	4.8	237	0.5	0.0	4.7	268	0.3	0.0	3.8
	U.S.No. 3	10.0	16	0.6	0.0	2.4	34	0.4	0.0	2.5	9	0.1	0.0	0.3
	U.S.No. 4		--	--	--	--	2	0.7	0.7	0.8	--	--	--	--
	U.S.No. 5		--	--	--	--	1	0.0	0.0	0.0	--	--	--	--
	All lots	N/A	293	0.6	0.0	4.8	274	0.5	0.0	4.7	278	0.3	0.0	3.8
Contrasting Classes	U.S.No. 1	1.0	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	U.S.No. 2	2.0	277	0.0	0.0	0.3	237	0.0	0.0	1.5	268	0.0	0.0	1.6
	U.S.No. 3	3.0	16	0.0	0.0	0.2	34	0.0	0.0	0.3	9	0.0	0.0	0.0
	U.S.No. 4		--	--	--	--	2	0.0	0.0	0.0	--	--	--	--
	U.S.No. 5		--	--	--	--	1	0.0	0.0	0.0	--	--	--	--
	All lots	N/A	293	0.0	0.0	0.3	274	0.0	0.0	1.5	278	0.0	0.0	1.6
Protein (as is basis)	U.S.No. 1	N/A	--	--	--	--	--	--	--	--	1	9.9	9.9	9.9
	U.S.No. 2	N/A	232	10.2	9.4	12.8	210	9.8	9.1	10.5	245	9.8	8.9	11.6
	U.S.No. 3	N/A	14	10.1	9.6	10.5	34	10.2	9.7	10.4	9	9.9	9.5	10.1
	U.S.No. 4		--	--	--	--	2	10.1	10.1	10.2	--	--	--	--
	U.S.No. 5		--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	246	10.2	9.4	12.8	246	9.9	9.1	10.5	255	9.8	8.9	11.6
Protein (12% moisture)	U.S.No. 1	N/A	--	--	--	--	--	--	--	--	1	10.1	10.1	10.1
	U.S.No. 2	N/A	232	10.3	9.5	12.9	210	9.9	9.2	10.6	245	9.9	9.1	11.7
	U.S.No. 3	N/A	14	10.2	9.7	10.7	34	10.3	9.8	10.5	9	10.0	9.6	10.2
	U.S.No. 4		--	--	--	--	2	10.2	10.2	10.3	--	--	--	--
	U.S.No. 5		--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	246	10.3	9.5	12.9	246	10.0	9.2	10.6	255	9.9	9.1	11.7

U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR DOCKAGE — ALL GRADES
SRW



U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
SRW

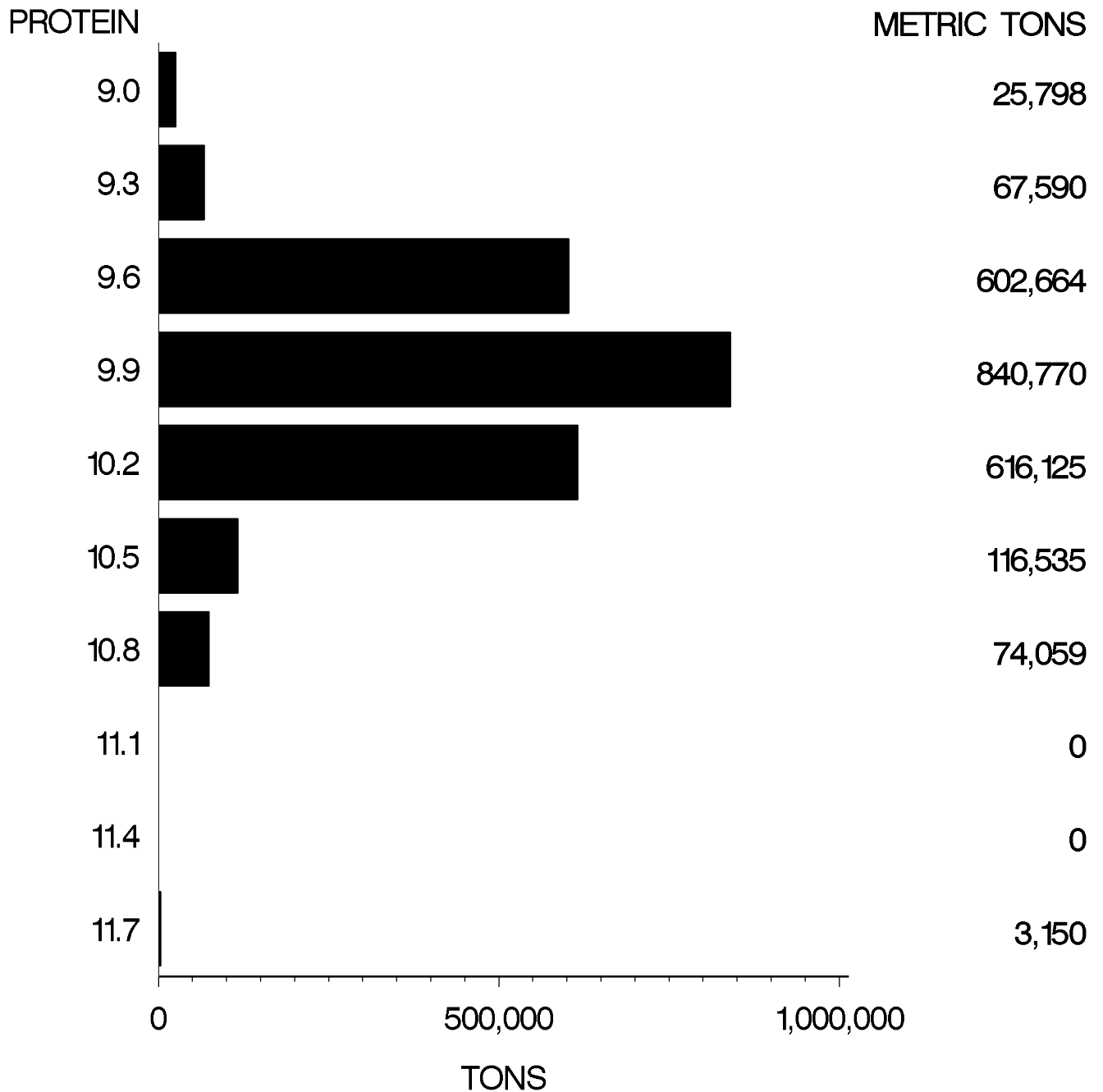


Table 5. Summary of export Durum wheat quality, factor averages by grade, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	60.0	36	62.6	60.4	64.1	65	62.0	60.3	63.5	68	61.8	60.2	64.1
	U.S.No. 2	58.0	48	60.8	59.9	63.3	43	61.0	59.7	63.0	40	61.2	60.1	63.8
	U.S.No. 3	56.0	2	61.5	60.9	62.6	2	60.4	60.0	60.8	6	60.2	59.3	60.7
	U.S.No. 4	54.0	--	--	--	--	1	60.1	60.1	60.1	1	64.0	64.0	64.0
	All lots	N/A	86	61.4	59.9	64.1	111	61.5	59.7	63.5	115	61.5	59.3	64.1
Test Weight (kg/hl)	U.S.No. 1	N/A	36	81.5	78.7	83.5	65	80.7	78.5	82.6	68	80.5	78.4	83.5
	U.S.No. 2	N/A	48	79.1	78.0	82.4	43	79.5	77.8	82.0	40	79.7	78.3	83.0
	U.S.No. 3	N/A	2	80.1	79.2	81.6	2	78.7	78.2	79.2	6	78.4	77.2	79.1
	U.S.No. 4	N/A	--	--	--	--	1	78.3	78.3	78.3	1	83.4	83.4	83.4
	All lots	N/A	86	80.0	78.0	83.5	111	80.1	77.8	82.6	115	80.1	77.2	83.5
Moisture	U.S.No. 1	N/A	36	7.9	6.0	13.3	65	9.4	6.2	13.6	68	11.0	6.6	13.8
	U.S.No. 2	N/A	48	11.8	6.7	13.4	43	12.9	6.8	13.5	40	12.6	8.0	13.9
	U.S.No. 3	N/A	2	10.4	7.2	12.2	2	13.2	13.1	13.2	6	12.7	12.1	13.3
	U.S.No. 4	N/A	--	--	--	--	1	13.3	13.3	13.3	1	8.3	8.3	8.3
	All lots	N/A	86	10.5	6.0	13.4	111	11.0	6.2	13.6	115	11.6	6.6	13.9
Heat-damaged Kernels	U.S.No. 1	0.2	36	0.0	0.0	0.0	65	0.0	0.0	0.1	68	0.0	0.0	0.0
	U.S.No. 2	0.2	48	0.0	0.0	0.0	43	0.0	0.0	0.1	40	0.0	0.0	0.1
	U.S.No. 3	0.5	2	0.0	0.0	0.0	2	0.2	0.0	0.3	6	0.0	0.0	0.1
	U.S.No. 4	1.0	--	--	--	--	1	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	86	0.0	0.0	0.0	111	0.0	0.0	0.3	115	0.0	0.0	0.1
Damaged Kernels (Total)	U.S.No. 1	2.0	36	0.7	0.0	1.6	65	1.0	0.4	2.0	68	1.0	0.3	1.7
	U.S.No. 2	4.0	48	2.5	0.4	3.4	43	2.6	0.3	4.0	40	1.8	0.4	2.9
	U.S.No. 3	7.0	2	2.1	1.2	2.6	2	3.6	3.3	3.9	6	4.7	3.8	5.4
	U.S.No. 4	10.0	--	--	--	--	1	6.6	6.6	6.6	1	0.6	0.6	0.6
	All lots	N/A	86	1.9	0.0	3.4	111	1.8	0.3	6.6	115	1.6	0.3	5.4
Foreign Material	U.S.No. 1	0.4	36	0.2	0.0	0.4	65	0.2	0.0	0.3	68	0.1	0.1	0.4
	U.S.No. 2	0.7	48	0.2	0.0	0.5	43	0.2	0.1	0.3	40	0.2	0.0	0.6
	U.S.No. 3	1.3	2	0.2	0.1	0.3	2	0.2	0.1	0.3	6	0.2	0.2	0.4
	U.S.No. 4	3.0	--	--	--	--	1	0.3	0.3	0.3	1	0.4	0.4	0.4
	All lots	N/A	86	0.2	0.0	0.5	111	0.2	0.0	0.3	115	0.2	0.0	0.6
Shrunken and Broken	U.S.No. 1	3.0	36	0.6	0.3	1.9	65	0.8	0.2	1.4	68	1.0	0.3	1.8
	U.S.No. 2	5.0	48	1.5	0.8	1.9	43	1.1	0.6	1.5	40	1.3	0.7	1.6
	U.S.No. 3	8.0	2	1.5	0.7	1.9	2	1.2	1.2	1.3	6	1.6	1.5	1.8
	U.S.No. 4	12.0	--	--	--	--	1	1.5	1.5	1.5	1	0.9	0.9	0.9
	All lots	N/A	86	1.2	0.3	1.9	111	0.9	0.2	1.5	115	1.2	0.3	1.8

N/A = Does not apply.
 -- = No lots reported in this category.

continued

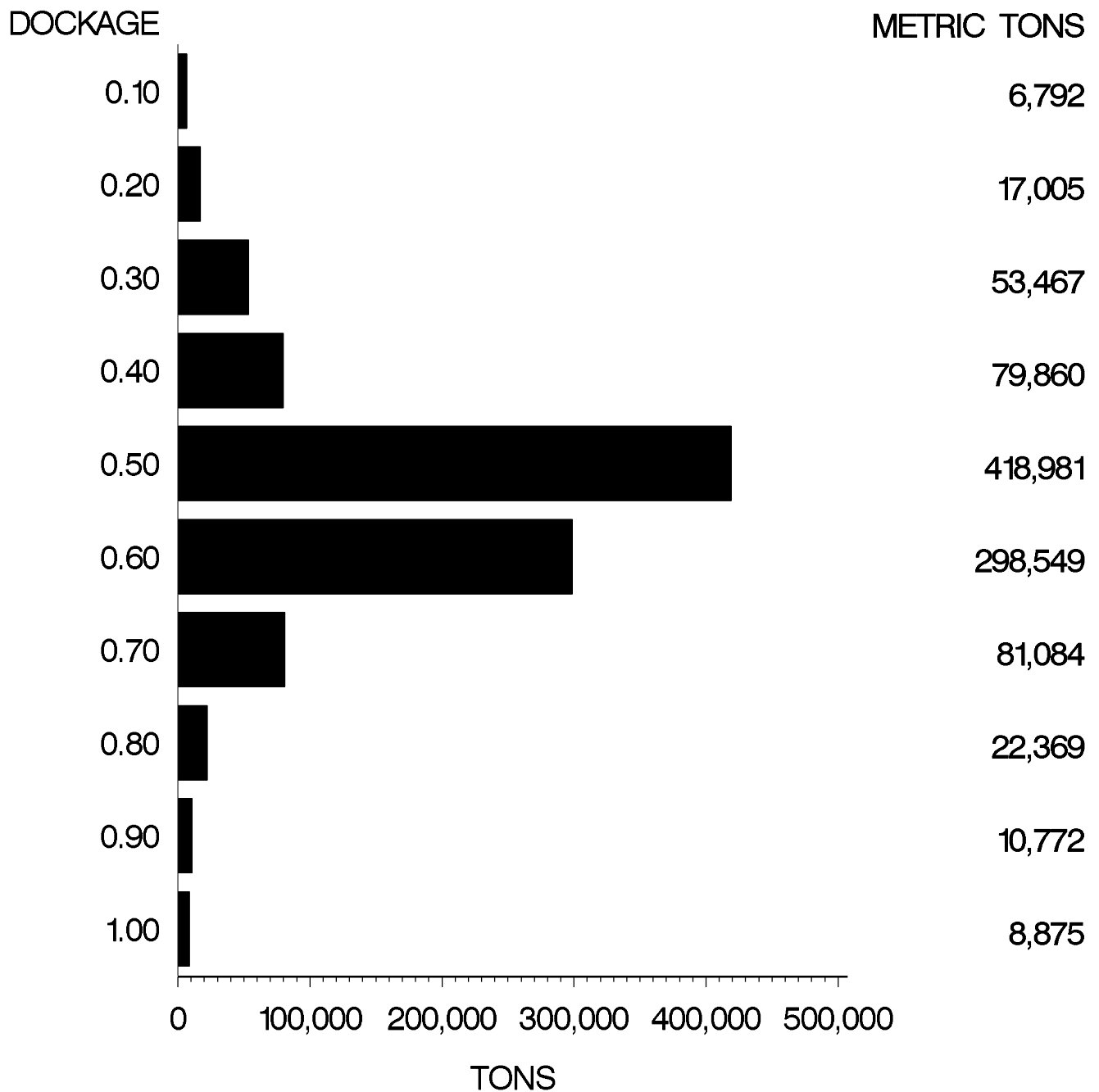
Table 5. Summary of export Durum wheat quality, factor averages by grade, 2004-2006--Continued

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Total Defects¹	U.S.No. 1	3.0	36	1.5	0.9	2.6	65	2.0	0.8	3.0	68	2.2	1.0	2.9
	U.S.No. 2	5.0	48	4.2	1.8	4.9	43	3.9	1.0	5.0	40	3.3	1.2	4.5
	U.S.No. 3	8.0	2	3.8	2.0	4.8	2	5.0	4.6	5.5	6	6.5	5.6	7.2
	U.S.No. 4	12.0	--	--	--	--	1	8.4	8.4	8.4	1	1.9	1.9	1.9
	All lots	N/A	86	3.3	0.9	4.9	111	2.9	0.8	8.4	115	2.9	1.0	7.2
Dockage	U.S.No. 1	N/A	36	0.5	0.2	0.8	66	0.6	0.1	0.9	69	0.5	0.1	1.0
	U.S.No. 2	N/A	47	0.6	0.3	0.9	43	0.5	0.3	1.0	40	0.5	0.1	1.0
	U.S.No. 3	N/A	2	0.7	0.6	0.7	2	0.6	0.6	0.7	6	0.6	0.4	0.7
	U.S.No. 4	N/A	--	--	--	--	1	0.6	0.6	0.6	1	0.9	0.9	0.9
	All lots	N/A	85	0.6	0.2	0.9	112	0.6	0.1	1.0	116	0.5	0.1	1.0
Contrasting Classes	U.S.No. 1	1.0	36	0.3	0.0	0.9	65	0.3	0.0	1.0	68	0.4	0.0	0.8
	U.S.No. 2	2.0	48	1.2	0.4	2.0	43	0.9	0.0	1.9	40	0.8	0.1	1.7
	U.S.No. 3	3.0	2	2.6	2.4	3.0	2	1.2	0.6	1.8	6	1.5	1.0	1.9
	U.S.No. 4	10.0	--	--	--	--	1	1.6	1.6	1.6	1	0.9	0.9	0.9
	All lots	N/A	86	0.9	0.0	3.0	111	0.6	0.0	1.9	115	0.6	0.0	1.9
Protein (as is basis)	U.S.No. 1	N/A	31	14.5	12.3	16.6	58	14.0	8.3	16.2	49	13.6	11.8	15.7
	U.S.No. 2	N/A	35	13.9	11.6	15.0	39	12.9	11.6	14.8	32	13.4	11.5	14.7
	U.S.No. 3	N/A	2	14.0	13.9	14.1	--	--	--	--	6	13.4	12.9	14.0
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	1	12.1	12.1	12.1
	All lots	N/A	68	14.1	11.6	16.6	97	13.4	8.3	16.2	88	13.5	11.5	15.7
Protein (12% moisture)	U.S.No. 1	N/A	31	13.8	11.7	16.4	58	13.6	7.9	16.2	49	13.4	11.3	15.5
	U.S.No. 2	N/A	35	13.9	11.5	14.9	39	13.0	11.8	14.0	32	13.5	11.0	14.7
	U.S.No. 3	N/A	2	13.8	13.2	14.1	--	--	--	--	6	13.5	13.1	14.0
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	1	11.6	11.6	11.6
	All lots	N/A	68	13.9	11.5	16.4	97	13.3	7.9	16.2	88	13.4	11.0	15.5

N/A = Does not apply.

-- = No lots reported in this category.

U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR DOCKAGE – ALL GRADES
DU



U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
DU

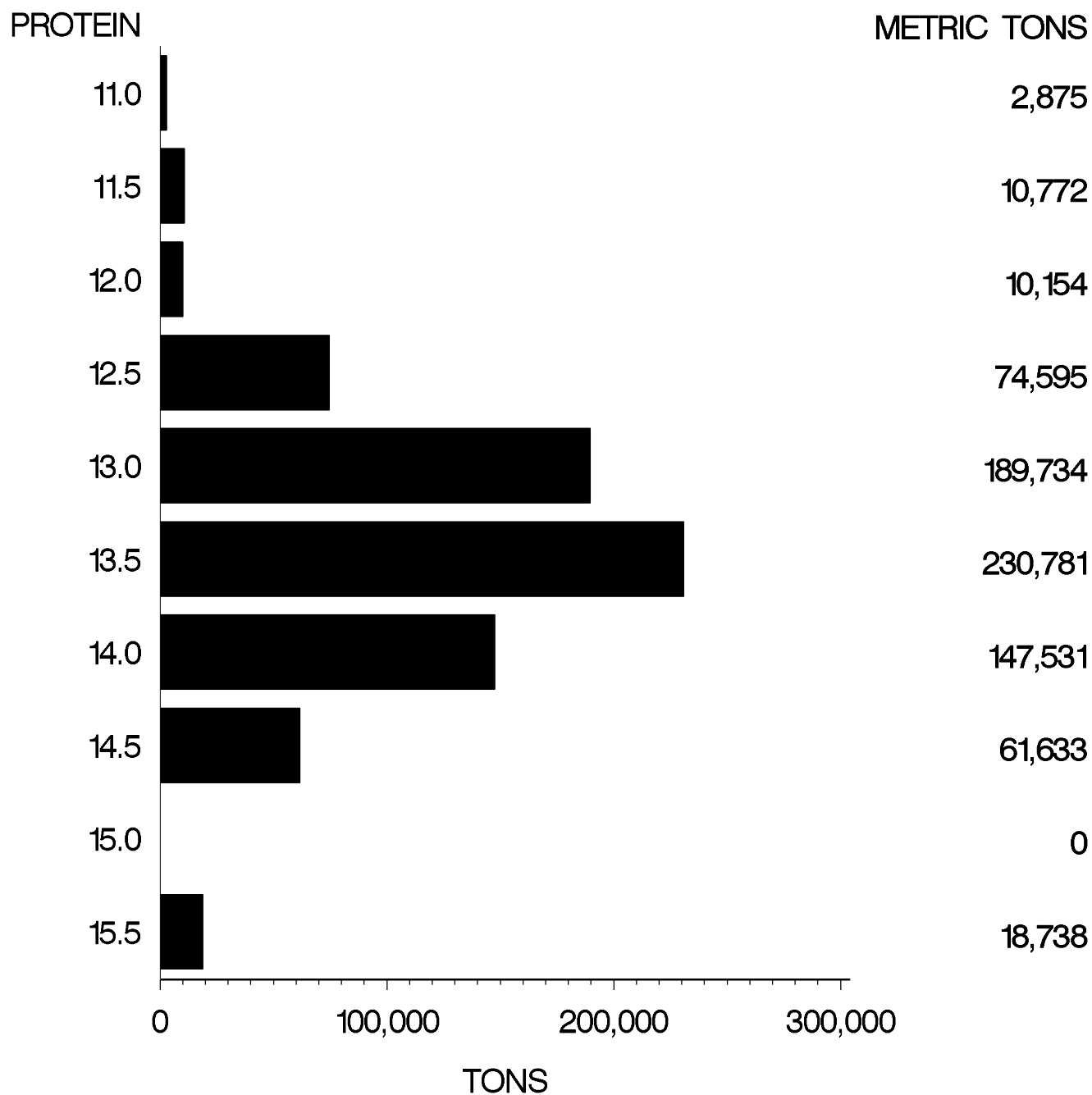


Table 6. Summary of export Soft White wheat quality, factor averages by grade, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	60.0	180	61.4	60.0	63.8	157	61.3	60.1	63.6	145	61.6	60.1	63.0
	U.S.No. 2	58.0	229	61.0	59.3	62.9	205	61.1	59.5	62.6	215	61.6	60.7	63.6
	All lots	N/A	409	61.0	59.3	63.8	362	61.1	59.5	63.6	360	61.6	60.1	63.6
Test Weight (kg/hl)	U.S.No. 1	N/A	180	80.7	78.9	83.8	157	80.6	79.1	83.6	145	81.0	79.1	82.9
	U.S.No. 2	N/A	229	80.2	78.1	82.7	205	80.4	78.3	82.3	215	81.0	79.8	83.6
	All lots	N/A	409	80.3	78.1	83.8	362	80.4	78.3	83.6	360	81.0	79.1	83.6
Moisture	U.S.No. 1	N/A	180	9.6	8.0	11.7	157	9.6	8.4	11.3	144	9.2	8.6	10.4
	U.S.No. 2	N/A	229	9.4	8.3	10.6	205	9.3	8.1	10.5	215	9.1	8.2	10.2
	All lots	N/A	409	9.5	8.0	11.7	362	9.4	8.1	11.3	359	9.1	8.2	10.4
Heat-damaged Kernels	U.S.No. 1	0.2	180	0.0	0.0	0.1	157	0.0	0.0	0.0	145	0.0	0.0	0.1
	U.S.No. 2	0.2	229	0.0	0.0	0.1	205	0.0	0.0	0.0	215	0.0	0.0	0.1
	All lots	N/A	409	0.0	0.0	0.1	362	0.0	0.0	0.0	360	0.0	0.0	0.1
Damaged Kernels (Total)	U.S.No. 1	2.0	180	0.1	0.0	0.7	157	0.1	0.0	0.7	145	0.1	0.0	1.4
	U.S.No. 2	4.0	229	0.5	0.0	3.6	205	0.7	0.0	3.4	215	0.1	0.0	2.5
	All lots	N/A	409	0.4	0.0	3.6	362	0.6	0.0	3.4	360	0.1	0.0	2.5
Foreign Material	U.S.No. 1	0.4	180	0.1	0.0	0.4	157	0.1	0.0	0.3	145	0.1	0.0	0.3
	U.S.No. 2	0.7	229	0.1	0.0	0.3	205	0.1	0.0	0.6	215	0.1	0.0	0.4
	All lots	N/A	409	0.1	0.0	0.4	362	0.1	0.0	0.6	360	0.1	0.0	0.4
Shrunken and Broken	U.S.No. 1	3.0	180	1.1	0.3	2.1	157	1.0	0.4	1.8	145	1.0	0.0	1.7
	U.S.No. 2	5.0	229	1.1	0.7	1.6	205	1.1	0.7	1.6	215	1.1	0.7	1.7
	All lots	N/A	409	1.1	0.3	2.1	362	1.1	0.4	1.8	360	1.0	0.0	1.7
Total Defects ¹	U.S.No. 1	3.0	180	1.3	0.4	2.3	157	1.2	0.4	1.9	145	1.2	0.0	2.3
	U.S.No. 2	5.0	229	1.6	0.7	4.4	205	1.9	0.9	4.7	215	1.3	0.8	3.6
	All lots	N/A	409	1.6	0.4	4.4	362	1.8	0.4	4.7	360	1.3	0.0	3.6
Dockage	U.S.No. 1	N/A	180	0.3	0.1	0.4	157	0.3	0.1	0.3	144	0.3	0.1	0.3
	U.S.No. 2	N/A	229	0.4	0.1	0.8	206	0.4	0.1	0.6	215	0.4	0.1	0.7
	All lots	N/A	409	0.4	0.1	0.8	363	0.4	0.1	0.6	359	0.3	0.1	0.7
Wheat of Other Classes	U.S.No. 1	3.0	180	0.3	0.0	1.2	157	0.3	0.0	1.0	145	0.3	0.0	1.1
	U.S.No. 2	5.0	229	0.3	0.0	1.7	205	0.3	0.0	2.4	215	0.3	0.0	1.3
	All lots	N/A	409	0.3	0.0	1.7	362	0.3	0.0	2.4	360	0.3	0.0	1.3
Contrasting Classes	U.S.No. 1	1.0	180	0.3	0.0	1.0	157	0.3	0.0	1.0	145	0.3	0.0	1.0
	U.S.No. 2	2.0	229	0.3	0.0	1.7	205	0.3	0.0	1.4	215	0.3	0.0	1.3
	All lots	N/A	409	0.3	0.0	1.7	362	0.3	0.0	1.4	360	0.3	0.0	1.3

continued

Table 6. Summary of export Soft White wheat quality, factor averages by grade, 2004-2006--Continued

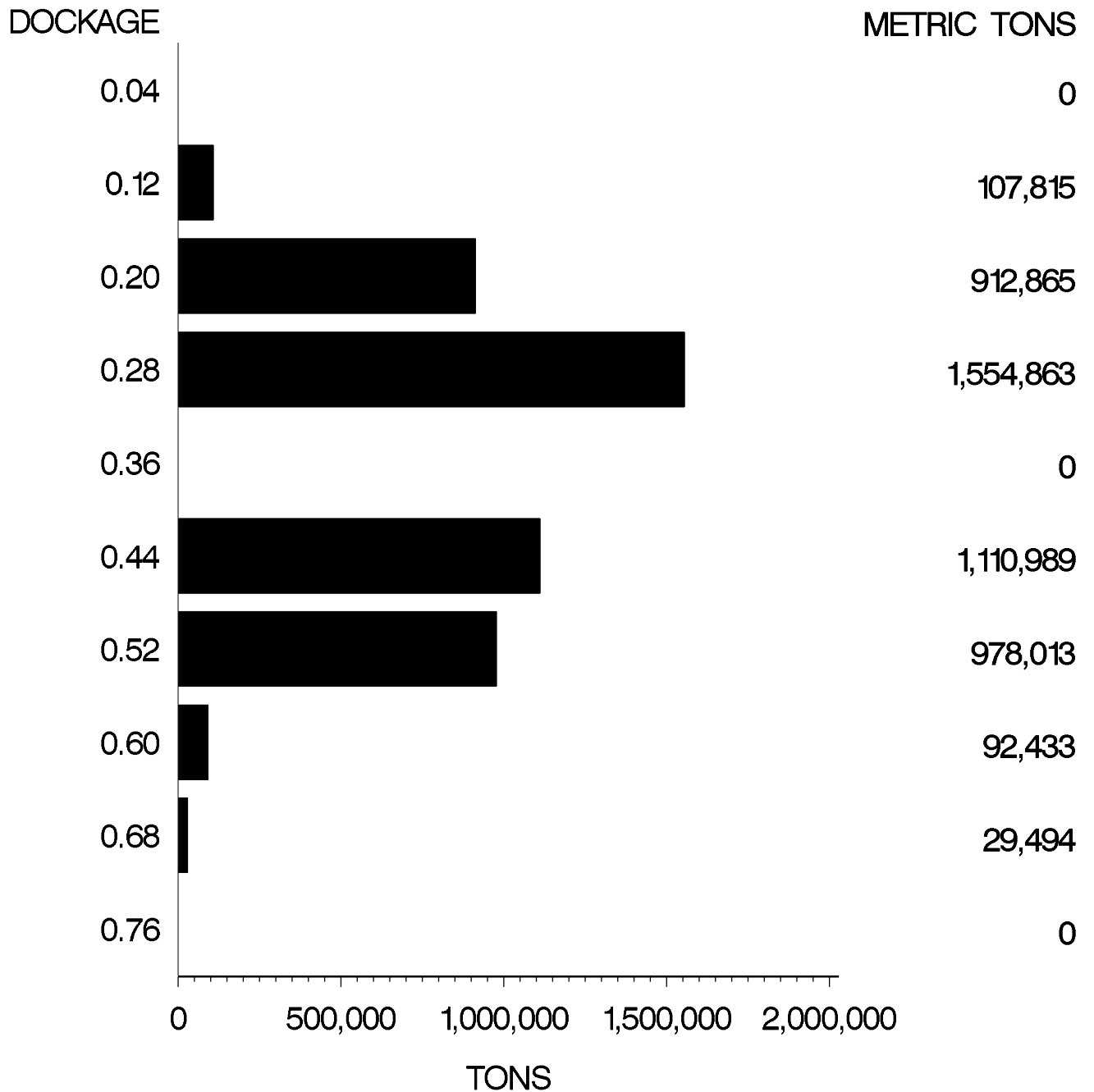
Factor	Grade	Grade Limit	2004			2005			2006					
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Protein (as is basis)	U.S.No. 1	N/A	178	10.2	8.3	12.1	155	10.1	8.4	10.9	144	10.0	8.1	11.2
	U.S.No. 2	N/A	224	10.7	9.5	12.7	187	10.5	9.4	11.4	204	10.3	8.6	11.0
	All lots	N/A	402	10.7	8.3	12.7	342	10.4	8.4	11.4	348	10.3	8.1	11.2
Protein (12% moisture)	U.S.No. 1	N/A	178	9.9	8.1	11.7	155	9.9	8.1	10.6	144	9.7	7.8	10.9
	U.S.No. 2	N/A	224	10.4	9.2	12.3	187	10.2	9.2	11.1	204	10.0	8.3	10.6
	All lots	N/A	402	10.4	8.1	12.3	342	10.1	8.1	11.1	348	10.0	7.8	10.9

N/A = Does not apply.

-- = No lots reported in this category.

¹The sum of the component factor averages may not equal the average for this factor due to rounding.

U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR DOCKAGE — ALL GRADES
SWH



U.S. WHEAT EXPORTED, 2006
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
SWH

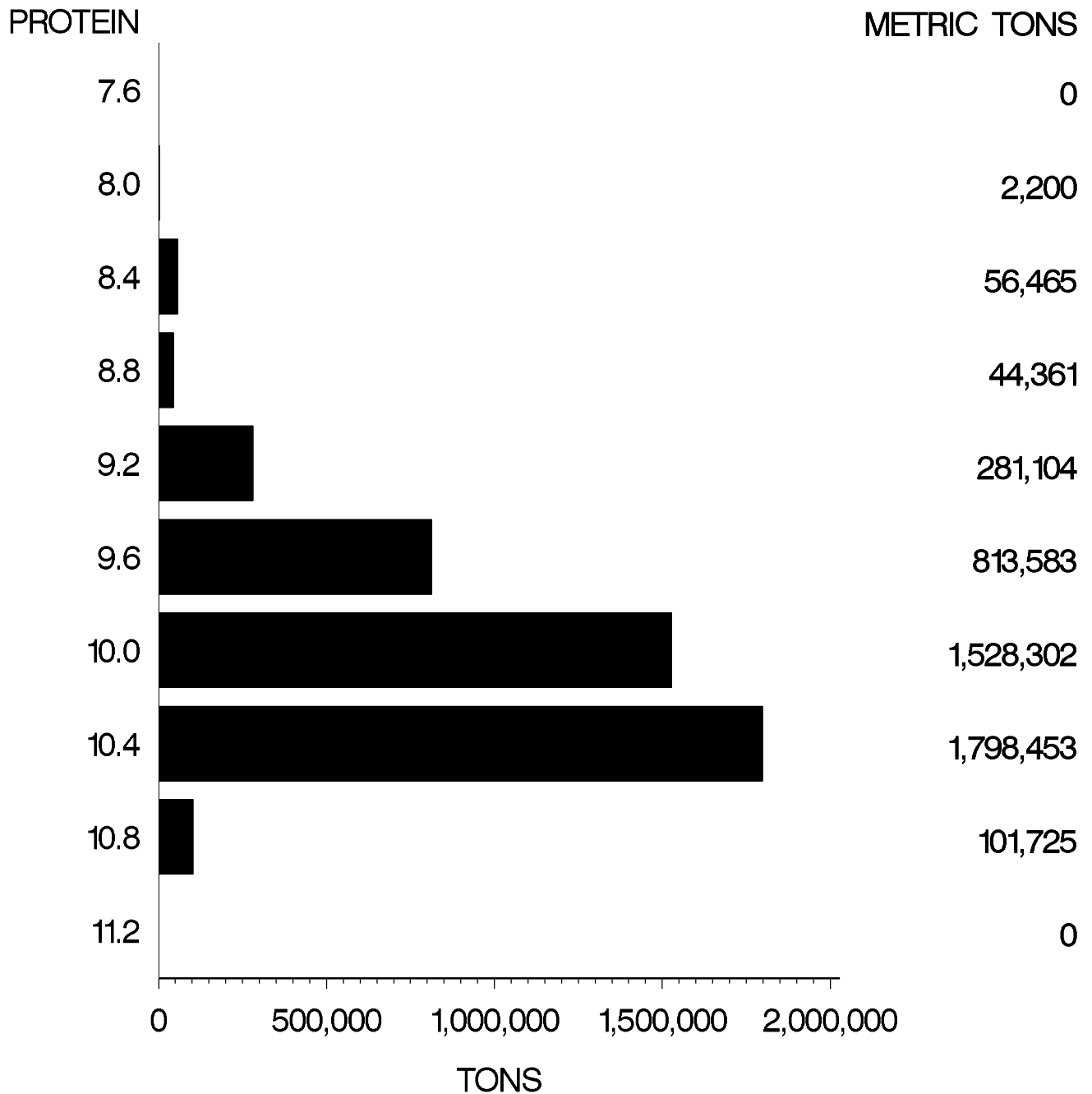


Table 7. Summary of export Hard White wheat quality, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	60.0	1	62.8	62.8	62.8	6	61.4	60.5	63.1	1	61.4	61.4	61.4
	U.S.No. 2	58.0	7	62.0	60.5	62.9	2	63.2	61.5	63.3	1	61.2	61.2	61.2
	U.S.No. 3	56.0	4	62.5	61.9	62.8	1	60.0	60.0	60.0	–	–	–	–
	U.S.No. 4	54.0	1	62.1	62.1	62.1	5	62.1	60.5	63.0	–	–	–	–
	All lots	N/A	13	62.3	60.5	62.9	14	62.1	60.0	63.3	2	61.3	61.2	61.4
Test Weight (kg/hl)	U.S.No. 1	N/A	1	82.6	82.6	82.6	6	80.8	79.5	82.9	1	80.8	80.8	80.8
	U.S.No. 2	N/A	7	81.5	79.6	82.6	2	83.1	80.9	83.2	1	80.5	80.5	80.5
	U.S.No. 3	N/A	4	82.1	81.4	82.6	1	78.9	78.9	78.9	–	–	–	–
	U.S.No. 4	N/A	1	81.7	81.7	81.7	5	81.6	79.6	82.8	–	–	–	–
	All lots	N/A	13	81.9	79.6	82.6	14	81.6	78.9	83.2	2	80.6	80.5	80.8
Moisture	U.S.No. 1	N/A	1	9.1	9.1	9.1	6	8.6	8.1	8.9	1	9.2	9.2	9.2
	U.S.No. 2	N/A	7	10.8	8.7	11.5	2	10.8	7.5	10.9	1	10.1	10.1	10.1
	U.S.No. 3	N/A	4	10.6	10.0	11.3	1	13.0	13.0	13.0	–	–	–	–
	U.S.No. 4	N/A	1	9.8	9.8	9.8	5	11.2	10.4	12.9	–	–	–	–
	All lots	N/A	13	10.5	8.7	11.5	14	11.0	7.5	13.0	2	9.6	9.2	10.1
Heat-damaged Kernels	U.S.No. 1	0.2	1	0.0	0.0	0.0	6	0.0	0.0	0.0	1	0.0	0.0	0.0
	U.S.No. 2	0.2	7	0.0	0.0	0.0	2	0.0	0.0	0.0	1	0.0	0.0	0.0
	U.S.No. 3	0.5	4	0.0	0.0	0.0	1	0.0	0.0	0.0	–	–	–	–
	U.S.No. 4	1.0	1	0.0	0.0	0.0	5	0.0	0.0	0.0	–	–	–	–
	All lots	N/A	13	0.0	0.0	0.0	14	0.0	0.0	0.0	2	0.0	0.0	0.0
Damaged Kernels (Total)	U.S.No. 1	2.0	1	0.0	0.0	0.0	6	0.0	0.0	0.0	1	0.1	0.1	0.1
	U.S.No. 2	4.0	7	0.9	0.0	2.0	2	2.3	0.0	2.4	1	0.9	0.9	0.9
	U.S.No. 3	7.0	4	0.8	0.7	1.1	1	1.2	1.2	1.2	–	–	–	–
	U.S.No. 4	10.0	1	0.9	0.9	0.9	5	2.0	0.6	3.1	–	–	–	–
	All lots	N/A	13	0.8	0.0	2.0	14	1.8	0.0	3.1	2	0.5	0.1	0.9
Foreign Material	U.S.No. 1	0.4	1	0.1	0.1	0.1	6	0.1	0.0	0.2	1	0.1	0.1	0.1
	U.S.No. 2	0.7	7	0.1	0.0	0.2	2	0.1	0.0	0.1	1	0.1	0.1	0.1
	U.S.No. 3	1.3	4	0.1	0.1	0.1	1	0.1	0.1	0.1	–	–	–	–
	U.S.No. 4	3.0	1	0.1	0.1	0.1	5	0.1	0.1	0.2	–	–	–	–
	All lots	N/A	13	0.1	0.0	0.2	14	0.1	0.0	0.2	2	0.1	0.1	0.1
Shrunken and Broken	U.S.No. 1	3.0	1	0.7	0.7	0.7	6	1.5	0.6	2.0	1	1.6	1.6	1.6
	U.S.No. 2	5.0	7	1.5	1.3	1.9	2	1.0	1.0	1.0	1	1.3	1.3	1.3
	U.S.No. 3	8.0	4	1.6	1.3	1.9	1	0.3	0.3	0.3	–	–	–	–
	U.S.No. 4	12.0	1	1.9	1.9	1.9	5	1.1	0.4	1.3	–	–	–	–
	All lots	N/A	13	1.5	0.7	1.9	14	1.0	0.3	2.0	2	1.5	1.3	1.6
Total Defects	U.S.No. 1	3.0	1	0.8	0.8	0.8	6	1.6	0.7	2.1	1	1.8	1.8	1.8
	U.S.No. 2	5.0	7	2.5	1.6	3.9	2	3.4	1.0	3.5	1	2.3	2.3	2.3
	U.S.No. 3	8.0	4	2.5	2.2	3.0	1	1.6	1.6	1.6	–	–	–	–
	U.S.No. 4	12.0	1	2.9	2.9	2.9	5	3.2	2.1	4.4	–	–	–	–
	All lots	N/A	13	2.5	0.8	3.9	14	2.9	0.7	4.4	2	2.0	1.8	2.3

continued

Table 7. Summary of export Hard White wheat quality, 2004-2006 -- Continued

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Dockage	U.S.No. 1	N/A	1	0.2	0.2	0.2	6	0.3	0.3	0.4	1	0.3	0.3	0.3
	U.S.No. 2	N/A	7	0.6	0.2	0.8	2	0.5	0.2	0.5	1	0.6	0.6	0.6
	U.S.No. 3	N/A	4	0.7	0.6	0.8	1	0.5	0.5	0.5	--	--	--	--
	U.S.No. 4	N/A	1	0.8	0.8	0.8	5	0.5	0.2	0.8	--	--	--	--
	All lots	N/A	13	0.6	0.2	0.8	14	0.5	0.2	0.8	2	0.4	0.3	0.6
Wheat of other Classes	U.S.No. 1	3.0	1	0.1	0.1	0.1	6	1.2	0.0	2.9	1	1.8	1.8	1.8
	U.S.No. 2	5.0	7	1.3	0.2	2.0	2	1.7	1.4	1.7	1	1.9	1.9	1.9
	U.S.No. 3	10.0	4	1.9	0.5	2.3	1	2.0	2.0	2.0	--	--	--	--
	U.S.No. 4	10.0	1	4.1	4.1	4.1	5	2.6	1.1	4.8	--	--	--	--
	All lots	N/A	13	1.9	0.1	4.1	14	2.1	0.0	4.8	2	1.8	1.8	1.9
Contrasting Classes	U.S.No. 1	1.0	1	0.1	0.1	0.1	6	0.3	0.0	0.4	1	0.7	0.7	0.7
	U.S.No. 2	2.0	7	1.3	0.2	2.0	2	1.7	1.1	1.7	1	1.2	1.2	1.2
	U.S.No. 3	3.0	4	1.9	0.5	2.3	1	2.0	2.0	2.0	--	--	--	--
	U.S.No. 4	10.0	1	4.0	4.0	4.0	5	2.6	1.1	4.8	--	--	--	--
	All lots	N/A	13	1.9	0.1	4.0	14	2.0	0.0	4.8	2	0.9	0.7	1.2
Protein (as is basis)	U.S.No. 1	N/A	1	12.6	12.6	12.6	6	13.4	13.1	13.9	1	13.4	13.4	13.4
	U.S.No. 2	N/A	7	12.4	10.9	14.0	2	13.2	13.2	13.8	1	12.8	12.8	12.8
	U.S.No. 3	N/A	4	12.1	11.9	12.4	--	--	--	--	--	--	--	--
	U.S.No. 4	N/A	1	12.5	12.5	12.5	3	13.1	13.0	13.5	--	--	--	--
	All lots	N/A	13	12.3	10.9	14.0	11	13.2	13.0	13.9	2	13.1	12.8	13.4
Protein (12% moisture)	U.S.No. 1	N/A	1	12.2	12.2	12.2	6	12.9	12.6	13.3	1	13.0	13.0	13.0
	U.S.No. 2	N/A	7	12.2	10.8	13.8	2	13.0	13.0	13.1	1	12.5	12.5	12.5
	U.S.No. 3	N/A	4	11.9	11.7	12.2	--	--	--	--	--	--	--	--
	U.S.No. 4	N/A	1	12.2	12.2	12.2	3	13.0	12.8	13.3	--	--	--	--
	All lots	N/A	13	12.1	10.8	13.8	11	13.0	12.6	13.3	2	12.8	12.5	13.0

N/A = Does not apply.

-- = No lots reported in this category.

Export Corn

Corn Grades and Grade Requirements

Corn is divided into three classes: Yellow corn, White Corn, and Mixed corn. There are no subclasses of corn. Each class of corn is divided into five U.S. numerical grades and U.S.

Sample grade. Special grades are provided to emphasize the qualities or conditions affecting the value of the corn. These special grades are made a part of the grade designation but do not affect the numerical or Sample grade designation.

U.S. Standards for Corn

Grade	Minimum test weight per bushel (pounds)	Maximum limits of -		
		Damaged kernels		Broken corn and foreign material (percent)
		Heat-damaged kernels (percent)	Total damaged kernels (percent)	
U.S. No. 1	56.0	0.1	3.0	2.0
U.S. No. 2	54.0	0.2	5.0	3.0
U.S. No. 3	52.0	0.5	7.0	4.0
U.S. No. 4	49.0	1.0	10.0	5.0
U.S. No. 5	46.0	3.0	15.0	7.0
U.S. Sample grade				

U.S. Sample grade is corn that:

- (a) Does not meet the requirements for the grades U.S. Nos. 1, 2, 3, 4, or 5; or
- (b) Contains stones which have an aggregate weight in excess of 0.1 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans, 8 or more cockleburrs, 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), or animal filth in excess of 0.20 percent in 1,000 grams; or
- (c) Has a musty, sour, or commercially objectionable foreign odor; or
- (d) Is heating or otherwise of distinctly low quality.

Corn

Definitions

Test weight (lb/bu) is pounds of grain per Winchester bushel (2,150.42 cubic inches) as determined using an approved device. Test weight is determined before the removal of broken corn and foreign material.

Test weight (kg/hl) is the metric system equivalent to pounds per bushel. Kilograms per hectoliter are calculated by multiplying pounds per bushel by 1.287.

Moisture is the water content of grain as determined by an approved moisture meter. The percentage of moisture in a sample does not affect the numerical grade.

Broken corn is all matter that passes readily through a 12/64-inch round-hole sieve and over a 6/64-inch round-hole sieve. The percentage of broken corn by itself does not affect the numerical grade.

Foreign material is all matter that passes readily through a 6/64-inch round-hole sieve and all matter other than corn that remains on top of the 12/64-inch round-hole sieve. The percentage of foreign material by itself does not affect the numerical grade.

Broken corn and foreign material is all matter that passes readily through a 12/64-inch sieve, and all matter other than corn that remains in the sieved sample.

Damaged kernels (total) are kernels and pieces of corn kernels that are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, germ-damaged, heat-damaged, insect-bored, mold-damaged, sprout-damaged, or otherwise materially damaged.

Heat-damaged kernels are kernels and pieces of corn kernels that are materially discolored by excessive respiration, with dark discoloration extending out of the germ, through the sides, and into the back of the kernel.

Mixed corn is corn that does not meet the color requirements for either of the classes Yellow corn or White corn, and which includes White-capped Yellow corn.

Oil, protein, and starch percentages in corn are determined by an approved near infrared transmittance (NIRT) instrument calibrated to approved methods. Percent corn oil, protein, or starch is reported on a dry matter basis unless other basis is requested. The level of oil, protein, or starch in a sample does not affect the numerical grade.

Table 8. U.S. Corn Exports: Number of lots and quantity exported by class and grade, 2004-2006

Class	Grade	2004		2005		2006	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Yellow Corn	U.S. No. 1	137	1,146,183	159	1,097,793	184	1,370,975
	U.S. No. 2	1,152	25,918,108	999	2,709,322	1,302	30,086,164
	U.S. No. 3	582	16,225,733	625	16,005,644	700	19,033,607
	U.S. No. 4	6	27,415	8	44,142	1	3,297
	U.S. No. 5	3	1,276	2	18,841	--	--
	U.S. Sample						
	Grade	1	13,676	1	1,670	--	--
	Not inspected	1	1,559	--	--	1	63,829
All lots	1,882	43,333,950	1,794	39,877,412	2,188	50,557,872	
White Corn	U.S. No. 1	44	343,421	63	375,117	36	389,395
	U.S. No. 2	31	300,547	37	208,942	47	324,435
	U.S. No. 3	1	2,680	2	14,854	1	2,870
	All lots	76	646,648	102	598,913	84	716,700
All Classes	U.S. No. 1	181	1,489,604	222	1,472,910	220	1,760,370
	U.S. No. 2	1,183	26,218,655	1,036	22,918,264	1,349	30,410,599
	U.S. No. 3	583	16,228,413	627	16,020,498	701	19,036,477
	U.S. No. 4	6	27,415	8	44,142	1	3,297
	U.S. No. 5	3	1,276	2	18,841	--	--
	U.S. Sample						
	Grade	1	13,676	1	1,670	--	--
	Not inspected	1	1,559	--	--	1	63,829
All lots	1,958	43,980,598	1,896	40,476,325	2,272	51,274,572	

-- = No lots reported in this category.

Not inspected = These lots were sold without grade designation.

Table 9. Summary of export Yellow corn quality, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	56.0	137	58.1	56.1	61.2	159	58.8	56.0	61.5	184	58.5	56.0	61.5
	U.S.No. 2	54.0	1,150	57.1	54.2	61.3	999	57.2	54.1	60.6	1,302	57.8	54.8	69.5
	U.S.No. 3	52.0	582	56.9	53.0	60.7	625	56.9	52.4	61.1	700	57.7	53.1	60.3
	U.S.No. 4	49.0	6	56.1	51.9	57.7	8	57.3	55.0	60.4	1	51.9	51.9	51.9
	U.S.No. 5	46.0	3	56.5	55.6	57.7	2	56.5	55.7	57.2	--	--	--	--
	U.S. Sample Grade	N/A	1	57.6	57.6	57.6	1	57.0	57.0	57.0	--	--	--	--
	All lots	N/A	1,879	57.0	51.9	61.3	1,794	57.1	52.4	61.5	2,187	57.8	51.9	69.5
Test Weight (kg/hl)	U.S.No. 1	N/A	137	74.9	72.2	78.8	159	75.6	72.1	79.1	184	75.3	72.1	79.2
	U.S.No. 2	N/A	1,150	73.5	69.8	78.9	999	73.6	69.6	78.0	1,302	74.4	70.5	89.5
	U.S.No. 3	N/A	582	73.3	68.3	78.1	625	73.3	67.5	78.7	700	74.3	68.3	77.7
	U.S.No. 4	N/A	6	72.3	66.8	74.3	8	73.8	70.9	77.8	1	66.9	66.9	66.9
	U.S.No. 5	N/A	3	72.8	71.6	74.3	2	72.8	71.7	73.6	--	--	--	--
	U.S. Sample Grade	N/A	1	74.2	74.2	74.2	1	73.3	73.3	73.3	--	--	--	--
	All lots	N/A	1,879	73.4	66.8	78.9	1,794	73.5	67.5	79.1	2,187	74.4	66.9	89.5
Moisture	U.S.No. 1	N/A	137	14.4	13.3	14.9	159	14.2	13.2	14.8	184	14.2	13.2	14.8
	U.S.No. 2	N/A	1,148	14.3	4.0	15.4	997	14.3	12.5	15.3	1,300	14.2	12.6	14.9
	U.S.No. 3	N/A	582	14.3	13.5	15.4	624	14.3	13.3	15.9	700	14.3	13.4	14.2
	U.S.No. 4	N/A	6	14.9	14.2	15.4	8	14.2	13.2	14.6	1	13.5	13.5	13.5
	U.S.No. 5	N/A	3	14.6	13.7	14.8	2	14.2	14.1	14.3	--	--	--	--
	U.S. Sample Grade	N/A	1	14.7	14.7	14.7	1	14.8	14.8	14.8	--	--	--	--
	All lots	N/A	1,877	14.3	4.0	15.4	1,791	14.3	12.5	15.9	2,185	14.2	12.6	14.2
Heat-damaged Kernels	U.S.No. 1	0.1	137	0.0	0.0	0.0	159	0.0	0.0	0.0	184	0.0	0.0	0.1
	U.S.No. 2	0.2	1,150	0.0	0.0	0.1	999	0.0	0.0	0.2	1,302	0.0	0.0	0.1
	U.S.No. 3	0.5	582	0.0	0.0	0.3	625	0.0	0.0	0.3	700	0.0	0.0	0.1
	U.S.No. 4	1.0	6	0.0	0.0	0.1	8	0.0	0.0	0.0	1	0.0	0.0	0.0
	U.S.No. 5	3.0	3	0.0	0.0	0.0	2	0.0	0.0	0.0	--	--	--	--
	U.S. Sample Grade	N/A	1	0.0	0.0	0.0	1	0.1	0.1	0.1	--	--	--	--
	All lots	N/A	1,879	0.0	0.0	0.3	1,794	0.0	0.0	0.3	2,187	0.0	0.0	0.1
Damaged Kernels (Total)	U.S.No. 1	3.0	137	1.8	0.3	3.0	159	1.7	0.2	3.0	184	1.7	0.3	3.0
	U.S.No. 2	5.0	1,150	2.2	0.0	4.9	999	3.2	0.0	5.0	1,302	3.0	0.0	5.0
	U.S.No. 3	7.0	582	2.0	0.0	6.6	625	3.5	0.0	7.0	700	3.0	0.0	7.0
	U.S.No. 4	10.0	6	6.8	3.2	8.1	8	7.1	4.2	9.0	1	4.9	4.9	4.9
	U.S.No. 5	15.0	3	5.1	3.9	12.0	2	9.3	8.8	9.6	--	--	--	--
	U.S. Sample Grade	N/A	1	1.6	1.6	1.6	1	10.3	10.3	10.3	--	--	--	--
	All lots	N/A	1,879	2.1	0.0	12.0	1,794	3.3	0.0	10.3	2,187	3.0	0.0	7.0

continued

Table 9. Summary of export Yellow corn quality, 2004-2006--Continued

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Broken Corn and Foreign Material	U.S.No. 1	2.0	136	1.6	0.6	2.0	159	1.5	0.7	2.0	184	1.5	0.6	2.0
	U.S.No. 2	3.0	1,149	2.6	0.6	3.0	998	2.6	0.7	3.0	1,302	2.5	0.9	3.0
	U.S.No. 3	4.0	582	2.9	0.7	4.0	625	2.9	0.8	4.0	697	3.1	0.8	4.0
	U.S.No. 4	5.0	6	3.3	1.4	4.4	8	4.0	1.3	4.6	1	2.4	2.4	2.4
	U.S.No. 5	7.0	3	5.3	3.6	5.6	2	3.4	3.4	3.5	--	--	--	--
	U.S. Sample Grade	N/A	1	18.0	18.0	18.0	1	3.2	3.2	3.2	--	--	--	--
	All lots	N/A	1,877	2.7	0.6	18.0	1,793	2.7	0.7	4.6	2,184	2.7	0.6	4.0
Broken Corn	U.S.No. 1	N/A	4	1.2	0.8	1.4	--	--	--	--	4	1.2	1.1	1.4
	U.S.No. 2	N/A	190	1.9	0.7	2.7	146	1.9	1.1	2.7	144	1.8	1.4	2.4
	U.S.No. 3	N/A	136	2.2	0.9	2.9	61	2.6	1.8	3.4	3	2.4	1.2	2.9
	U.S.No. 4	N/A	--	--	--	--	2	2.9	2.9	2.9	--	--	--	--
	U.S.No. 5	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	330	2.1	0.7	2.9	209	2.2	1.1	3.4	151	1.9	1.1	2.9
Foreign Material	U.S.No. 1	N/A	4	0.3	0.2	0.5	--	--	--	--	4	0.4	0.4	0.4
	U.S.No. 2	N/A	189	0.7	0.4	2.1	143	0.7	0.4	1.1	148	0.7	0.5	1.0
	U.S.No. 3	N/A	138	0.8	0.5	3.2	60	0.9	0.6	1.2	3	0.5	0.4	0.6
	U.S.No. 4	N/A	--	--	--	--	2	1.3	1.3	1.3	--	--	--	--
	U.S.No. 5	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	331	0.7	0.2	3.2	205	0.8	0.4	1.3	155	0.7	0.4	1.0

N/A = Does not apply.

-- = No lots reported in this category.

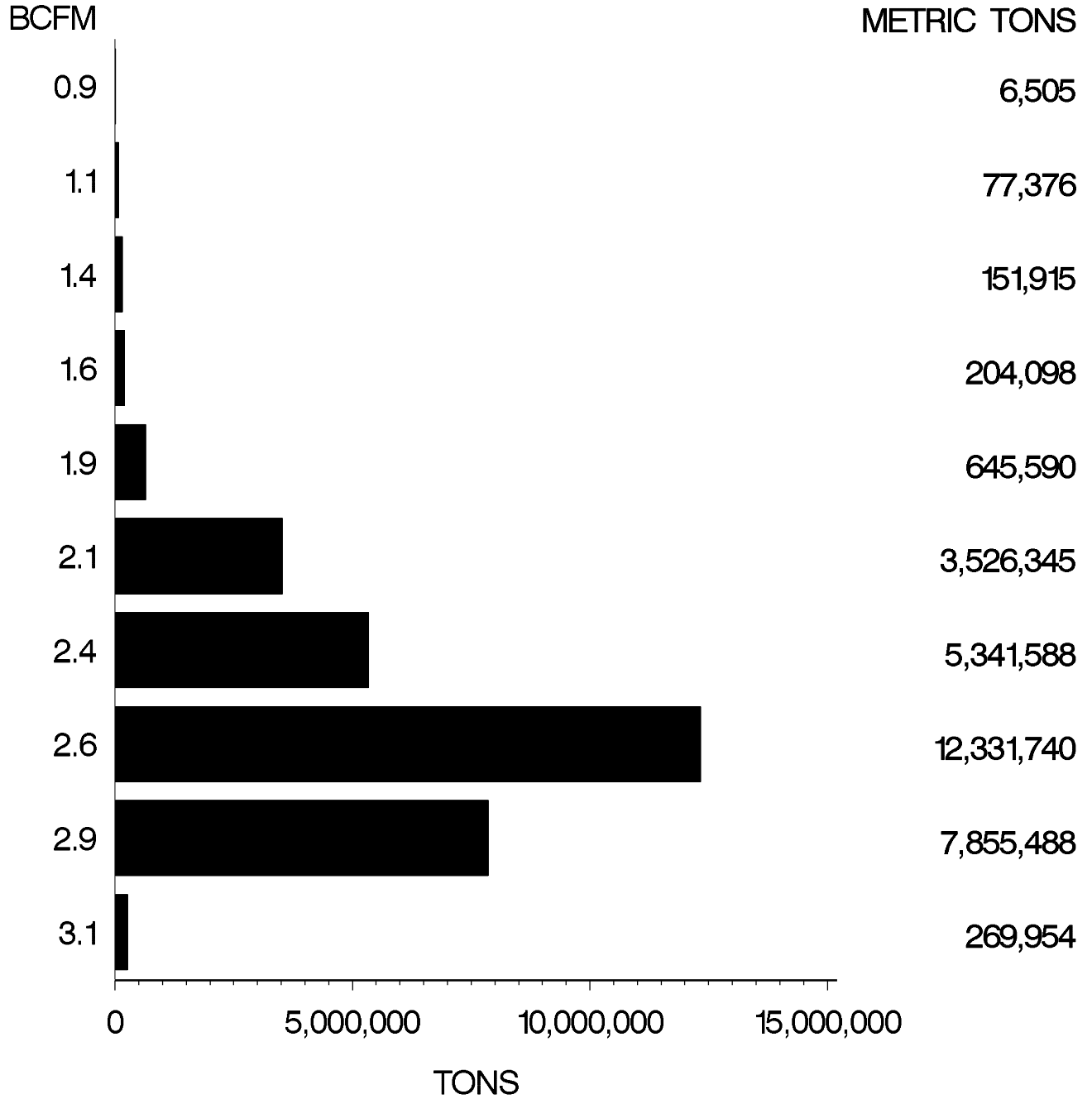
Table 10. Summary of export White corn quality, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S. No. 1	56.0	44	59.3	58.2	60.9	63	59.8	56.8	61.4	36	59.6	58.2	60.8
	U.S. No. 2	54.0	31	59.6	56.5	60.5	37	60.0	58.3	61.7	47	59.7	57.5	60.9
	U.S. No. 3	52.0	1	60.1	60.1	60.1	2	60.1	60.0	60.3	1	59.1	59.1	59.1
	All lots	N/A	76	59.4	56.5	60.9	102	59.9	56.8	61.7	84	59.6	57.5	60.9
Test Weight (kg/hl)	U.S. No. 1	N/A	44	76.4	74.9	78.4	63	77.0	73.1	79.0	36	76.7	74.9	78.3
	U.S. No. 2	N/A	31	76.7	72.7	77.9	37	77.3	75.0	79.4	47	76.9	74.0	78.4
	U.S. No. 3	N/A	1	77.3	77.3	77.3	2	77.4	77.2	77.7	1	76.1	76.1	76.1
	All lots	N/A	76	76.5	72.7	78.4	102	77.1	73.1	79.4	84	76.8	74.0	78.4
Moisture	U.S. No. 1	N/A	44	14.1	12.2	14.7	63	14.1	13.4	14.5	36	14.0	13.5	14.5
	U.S. No. 2	N/A	31	14.1	13.1	14.7	37	14.0	13.6	14.5	47	14.1	11.9	14.6
	U.S. No. 3	N/A	1	14.0	14.0	14.0	2	13.7	13.5	14.0	1	14.0	14.0	14.0
	All lots	N/A	76	14.1	12.2	14.7	102	14.0	13.4	14.5	84	14.0	11.9	14.6
Heat-damaged Kernels	U.S. No. 1	0.1	44	0.0	0.0	0.0	63	0.0	0.0	0.0	36	0.0	0.0	0.0
	U.S. No. 2	0.2	31	0.0	0.0	0.0	37	0.0	0.0	0.1	47	0.0	0.0	0.1
	U.S. No. 3	0.5	1	0.0	0.0	0.0	2	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	76	0.0	0.0	0.0	102	0.0	0.0	0.1	84	0.0	0.0	0.1
Damaged Kernels (Total)	U.S. No. 1	3.0	44	1.9	0.9	2.9	63	2.0	0.6	3.0	36	1.7	0.6	3.0
	U.S. No. 2	5.0	31	2.3	0.6	4.6	37	2.4	0.4	4.9	47	2.4	0.0	4.1
	U.S. No. 3	7.0	1	5.5	5.5	5.5	2	4.7	3.4	6.4	1	3.0	3.0	3.0
	All lots	N/A	76	2.1	0.6	5.5	102	2.2	0.4	6.4	84	2.0	0.0	4.1
Broken Corn and Foreign Material	U.S. No. 1	2.0	44	1.8	0.8	2.0	63	1.6	1.0	2.0	36	1.7	1.0	2.0
	U.S. No. 2	3.0	31	2.2	0.8	2.9	37	2.0	0.6	2.9	47	2.3	1.0	2.9
	U.S. No. 3	4.0	1	1.8	1.8	1.8	2	2.9	2.0	3.6	1	3.8	3.8	3.8
	All lots	N/A	76	2.0	0.8	2.9	102	1.7	0.6	3.6	84	2.0	1.0	3.8
Broken Corn	U.S. No. 1	N/A	12	1.4	1.2	1.6	17	1.3	0.9	1.6	11	1.3	1.0	1.5
	U.S. No. 2	N/A	3	1.8	1.5	2.0	2	2.0	1.9	2.1	8	1.5	1.0	1.9
	All lots	N/A	15	1.5	1.2	2.0	19	1.4	0.9	2.1	19	1.4	1.0	1.9
Foreign Material	U.S. No. 1	N/A	12	0.5	0.3	0.6	17	0.5	0.1	0.6	11	0.5	0.3	0.5
	U.S. No. 2	N/A	3	0.6	0.4	0.7	2	0.5	0.4	0.7	8	0.5	0.4	0.8
	All lots	N/A	15	0.5	0.3	0.7	19	0.5	0.1	0.7	19	0.5	0.3	0.8

N/A = Does not apply.

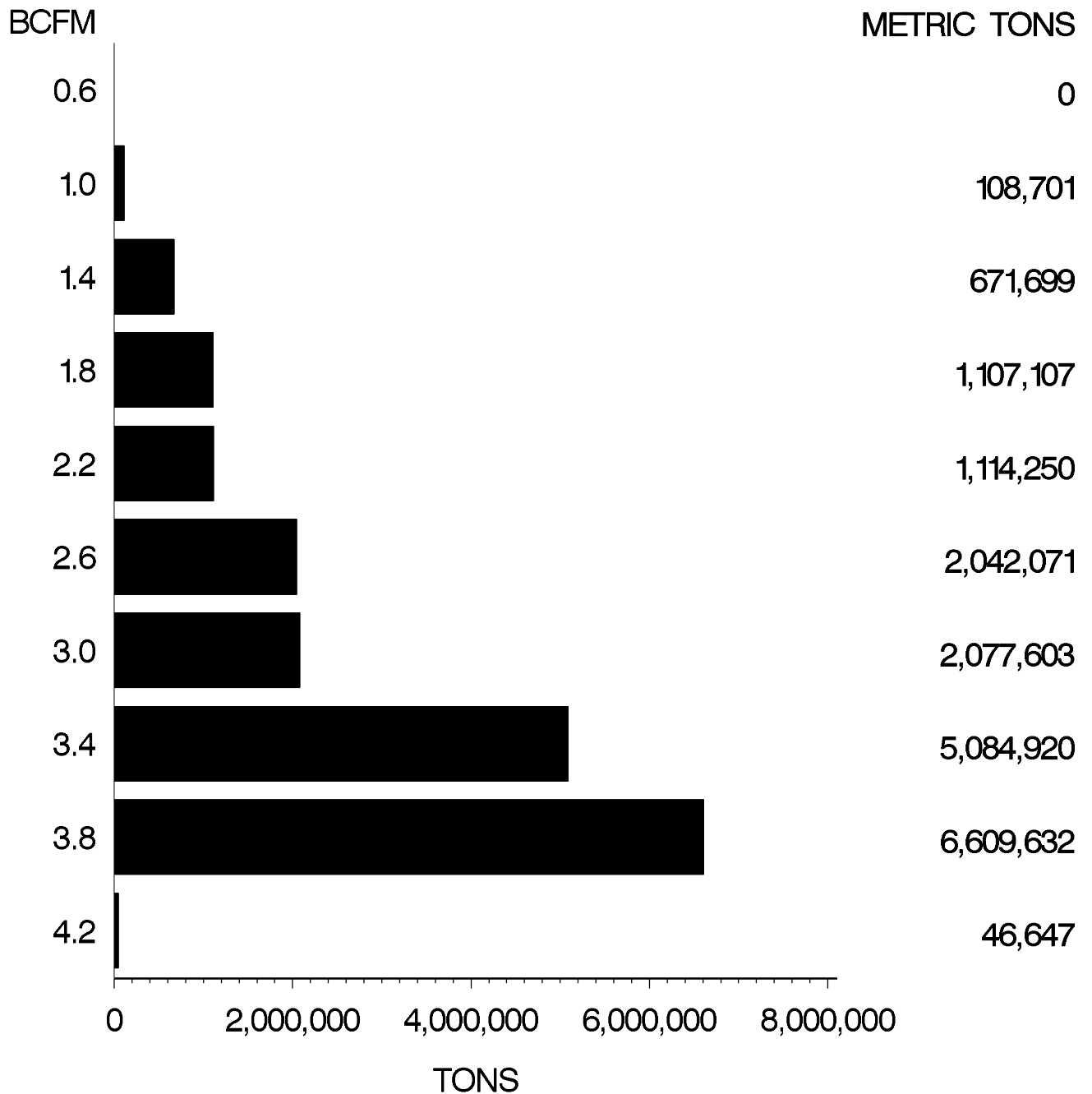
-- = No lots reported in this category.

**U.S. CORN EXPORTED, 2006
DISTRIBUTION FOR BCFM – GRADE 2**



U.S. CORN EXPORTED, 2006

DISTRIBUTION FOR BCFM – GRADE 3



Export Soybeans

Soybean Grades and Grade Requirements

There are two classes of soybeans: Yellow soybeans and Mixed soybeans. There are no soybean subclasses. The class Yellow soybeans is the class most commonly exported by the U.S. market. Each class is divided into four U.S. numerical grades and U.S. Sample grade.

Special grades are provided to emphasize special qualities or conditions affecting the value of the soybeans. These special grades are a part of the grade designation but do not affect the numerical or Sample grade designation.

U.S. Standards for Soybeans

Grade	Minimum test weight per bushel (pounds)	Maximum limits of -				
		Damaged kernels		Foreign Material (percent)	Splits (percent)	Soybeans of other colors ¹ (percent)
		Heat-damaged kernels (percent)	Total damaged kernels (percent)			
U.S. No. 1	56.0	0.2	2.0	1.0	10.0	1.0
U.S. No. 2	54.0	0.5	3.0	2.0	20.0	2.0
U.S. No. 3	52.0	1.0	5.0	3.0	30.0	5.0
U.S. No. 4	49.0	3.0	8.0	5.0	40.0	10.0
U.S. Sample grade						

U.S. Sample grade shall be soybeans which:

- (a) Do not meet the requirements for U.S. Nos. 1, 2, 3, or 4; or
- (b) Contain 4 or more stones which have an aggregate weight in excess of 0.1 percent of the sample weight, 1 or more pieces of broken glass, 3 or more crotalaria seeds, 2 or more castor beans, 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic foreign substance(s), 10 or more rodent pellets, bird droppings, or an equivalent quantity of other animal filth, 11 or more pieces, in any combination, of animal filth, castor beans, crotalaria seeds, glass, stones, or unknown foreign substance. The weight of stones is not applicable for total other material; or
- (c) Have a musty, sour, or commercially objectionable foreign odor (except garlic odor); or
- (d) Are heating or otherwise of distinctly low quality.

¹ Does not apply to Mixed soybeans.

Soybeans

Definitions

Test weight (lb/bu) is pounds of grain per Winchester bushel determined by an approved device before the removal of foreign material.

Test weight (kg/hl) is the metric system equivalent to pounds per bushel. Kilograms per hectoliter are calculated by multiplying pounds per bushel by 1.287.

Moisture is the water content of grain as determined by an approved electronic moisture meter. The percentage of moisture in a sample does not affect the numerical grade.

Splits are soybeans with more than one-fourth of the bean removed and which are not damaged.

Damaged kernels are soybeans and pieces of soybeans which are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, heat-damaged, insect-bored, mold-damaged, sprout damaged, stinkbug-stung, or otherwise materially damaged.

Heat-damaged kernels are soybeans and pieces of soybeans which are materially discolored and damaged by heat.

Foreign material is all matter, including soybeans and pieces of soybeans, that will pass readily through an 8/64-inch sieve and all matter other than soybeans remaining on the sieve after sieving.

Soybeans of other colors are soybeans which have green, black, brown, or bicolored seed coats. Before September 9, 1985, this factor was called “brown, black, and/or bicolored soybeans in yellow or green soybeans.”

Mixed soybeans is a combination of classes of soybeans which does not meet the minimum requirements of a the class Yellow soybeans.

Protein and oil percentages in soybeans are determined by an approved near infrared transmittance (NIRT) instrument calibrated to approved methods. Percent protein and oil is reported on a 13 percent moisture basis unless another basis is requested. The level of protein and oil in a sample does not affect the numerical grade.

Table 11. U.S. Soybean Exports: Number of lots and quantity exported by class and grade, 2004-2006

Grade	2004		2005		2006	
	Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
U.S. No. 1	66	990,283	38	422,373	36	376,875
U.S. No. 2	757	21,222,053	805	21,476,843	914	23,665,853
U.S. No. 3	14	332,352	43	1,190,869	14	302,690
U.S. No. 4	–	–	2	22,689	3	77,822
U.S. Sample Grade	–	–	4	61,355	4	33,266
Not inspected	–	–	–	–	2	70,856
All lots	837	22,544,688	892	23,174,129	973	24,527,362

Not inspected = These lots were sold without grade designation.

Table 12. Summary of export Soybean quality, 2004-2006

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	56.0	66	56.5	56.0	58.3	37	56.5	56.0	58.4	36	56.4	56.0	57.7
	U.S.No. 2	54.0	757	55.9	54.1	58.2	805	55.7	54.0	58.5	914	55.8	54.1	58.1
	U.S.No. 3	52.0	14	55.3	53.8	57.3	43	54.8	53.2	57.3	14	55.2	54.6	57.1
	U.S.No. 4	49.0	--	--	--	--	2	53.6	53.5	53.6	3	53.4	53.3	53.9
	U.S. Sample Grade	N/A	--	--	--	--	4	54.0	53.9	54.9	4	53.8	53.0	54.5
	All lots	N/A	837	56.0	53.8	58.3	891	55.7	53.2	58.5	971	55.8	53.0	58.1
Test Weight (kg/hl)	U.S.No. 1	N/A	66	72.8	72.1	75.1	37	72.8	72.1	75.2	36	72.6	72.1	74.2
	U.S.No. 2	N/A	757	72.0	69.6	74.9	805	71.7	69.6	75.3	914	71.8	69.7	74.8
	U.S.No. 3	N/A	14	71.2	69.3	73.8	43	70.5	68.5	73.8	14	71.1	70.3	73.5
	U.S.No. 4	N/A	--	--	--	--	2	69.0	68.8	69.1	3	68.7	68.6	69.4
	U.S. Sample Grade	N/A	--	--	--	--	4	69.5	69.4	70.6	4	69.3	68.2	70.1
	All lots	N/A	837	72.0	69.3	75.1	891	71.7	68.5	75.3	971	71.8	68.2	74.8
Moisture	U.S.No. 1	N/A	65	11.7	10.8	13.2	37	11.7	10.8	13.3	34	11.8	10.9	13.0
	U.S.No. 2	N/A	757	12.1	8.8	14.0	804	11.8	10.1	13.5	913	11.7	9.7	13.9
	U.S.No. 3	N/A	14	12.3	10.3	13.2	43	12.2	10.9	12.8	14	11.8	9.4	12.9
	U.S.No. 4	N/A	--	--	--	--	2	11.5	11.4	11.7	3	12.1	11.2	12.6
	U.S. Sample Grade	N/A	--	--	--	--	4	12.0	11.9	12.2	4	12.4	11.4	13.0
	All lots	N/A	836	12.0	8.8	14.0	890	11.8	10.1	13.5	968	11.7	9.4	13.9
Heat-damaged Kernels	U.S.No. 1	0.2	66	0.0	0.0	0.2	37	0.0	0.0	0.1	36	0.0	0.0	0.1
	U.S.No. 2	0.5	757	0.1	0.0	0.5	805	0.1	0.0	0.5	914	0.2	0.0	0.5
	U.S.No. 3	1.0	14	0.2	0.0	0.4	43	0.5	0.0	1.0	14	0.7	0.0	1.0
	U.S.No. 4	3.0	--	--	--	--	2	0.5	0.2	0.6	3	0.4	0.2	0.7
	U.S. Sample Grade	N/A	--	--	--	--	4	1.2	0.7	4.3	4	0.7	0.3	1.2
	All lots	N/A	837	0.1	0.0	0.5	891	0.1	0.0	4.3	971	0.2	0.0	1.2
Damaged Kernels (Total)	U.S.No. 1	2.0	66	0.7	0.1	1.1	37	0.6	0.0	1.0	36	0.4	0.0	1.3
	U.S.No. 2	3.0	757	1.3	0.0	3.0	805	1.4	0.0	3.0	914	1.3	0.0	3.0
	U.S.No. 3	5.0	14	2.5	0.2	4.9	43	3.1	0.2	5.0	14	2.5	0.2	4.9
	U.S.No. 4	8.0	--	--	--	--	2	6.8	6.7	6.8	3	5.4	4.4	6.8
	U.S. Sample Grade	N/A	--	--	--	--	4	7.9	5.2	15.9	4	6.1	5.0	9.3
	All lots	N/A	837	1.3	0.0	4.9	891	1.5	0.0	15.9	971	1.4	0.0	9.3

continued

Table 12. Summary of export Soybean quality, 2004-2006--Continued

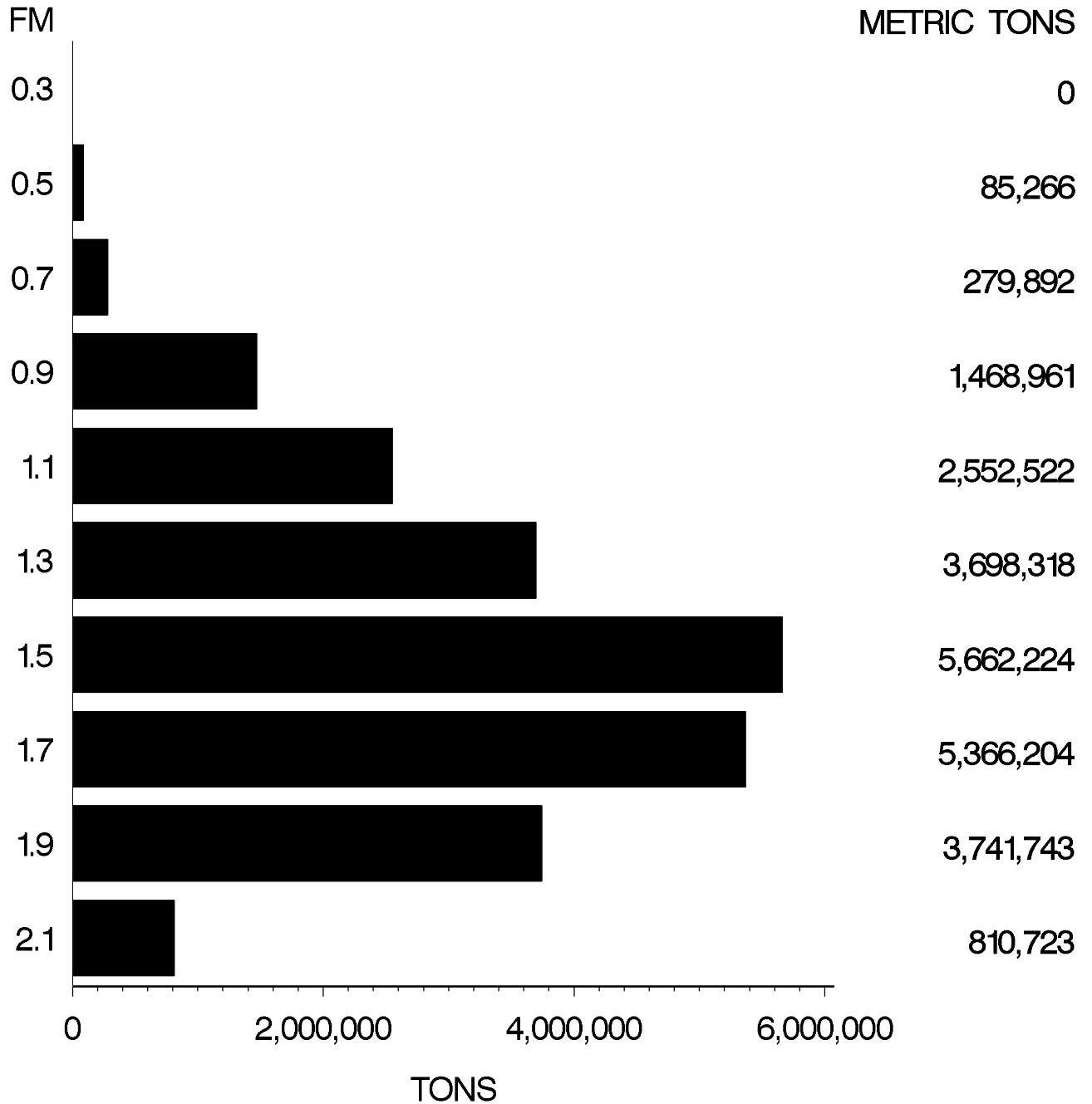
Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Foreign Material	U.S.No. 1	1.0	66	0.8	0.1	1.0	37	0.8	0.1	1.0	36	0.8	0.0	1.0
	U.S.No. 2	2.0	757	1.5	0.0	2.0	805	1.6	0.0	2.0	914	1.5	0.4	2.0
	U.S.No. 3	3.0	14	1.9	0.9	2.9	43	1.6	0.9	2.7	14	1.7	1.0	2.9
	U.S.No. 4	5.0	--	--	--	--	2	1.4	0.0	1.9	3	1.7	1.6	1.9
	U.S. Sample Grade	N/A	--	--	--	--	4	2.0	1.4	2.0	4	1.8	1.6	2.0
	All lots	N/A	837	1.5	0.0	2.9	891	1.6	0.0	2.7	971	1.5	0.0	2.9
Splits	U.S.No. 1	10.0	66	6.1	1.1	9.3	37	7.0	0.9	10.0	36	6.1	0.0	9.7
	U.S.No. 2	20.0	757	7.5	0.0	15.2	805	9.9	0.0	19.1	914	8.3	0.0	19.9
	U.S.No. 3	30.0	14	6.2	4.2	15.2	43	6.0	3.4	19.0	14	8.7	3.5	28.9
	U.S.No. 4	40.0	--	--	--	--	2	6.7	5.6	9.6	3	6.9	6.0	8.7
	U.S. Sample Grade	N/A	--	--	--	--	4	5.5	3.4	7.0	4	6.7	5.1	9.7
	All lots	N/A	837	7.4	0.0	15.2	891	9.6	0.0	19.1	971	8.3	0.0	28.9
Soybeans of Other Colors	U.S.No. 1	1.0	66	0.6	0.0	3.0	37	0.6	0.0	3.0	36	0.8	0.0	3.0
	U.S.No. 2	2.0	757	0.8	0.0	20.0	805	0.7	0.0	8.0	914	0.5	0.0	7.0
	U.S.No. 3	5.0	14	0.0	0.0	1.0	43	0.2	0.0	7.0	14	0.3	0.0	2.0
	U.S.No. 4	10.0	--	--	--	--	2	0.0	0.0	0.0	3	0.7	0.0	2.0
	U.S. Sample Grade	N/A	--	--	--	--	4	0.0	0.0	0.0	4	0.2	0.0	1.0
	All lots	N/A	837	0.7	0.0	20.0	891	0.7	0.0	8.0	971	0.5	0.0	7.0
Protein (adjusted to 13% moisture)	U.S.No. 1	N/A	51	35.5	34.5	37.6	30	35.3	34.4	38.1	29	35.0	34.2	37.0
	U.S.No. 2	N/A	456	35.3	33.8	39.2	430	35.1	33.9	39.5	534	34.8	33.4	38.8
	U.S.No. 3	N/A	6	35.2	34.7	35.8	28	35.1	34.4	35.4	3	35.0	34.9	35.2
	U.S.No. 4	10.0	--	--	--	--	--	--	--	--	1	35.8	35.8	35.8
	U.S. Sample Grade	N/A	--	--	--	--	2	34.9	34.8	35.0	1	34.6	34.6	34.6
	All lots	N/A	513	35.3	33.8	39.2	490	35.1	33.9	39.5	568	34.8	33.4	38.8
Oil (adjusted to 13% moisture)	U.S.No. 1	N/A	48	18.6	16.2	19.9	28	18.8	16.4	20.2	29	19.2	18.1	20.2
	U.S.No. 2	N/A	456	18.8	16.4	21.2	431	19.1	16.3	20.9	536	19.4	17.0	20.8
	U.S.No. 3	N/A	6	19.9	18.9	20.4	30	19.7	18.8	20.9	3	19.6	19.5	19.7
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	1	19.7	19.7	19.7
	U.S. Sample Grade	N/A	--	--	--	--	2	20.2	20.1	20.2	1	20.4	20.4	20.4
	All lots	N/A	510	18.8	16.2	21.2	491	19.1	16.3	20.9	570	19.4	17.0	20.8

N/A = Does not apply.

-- = No lots reported in this category.

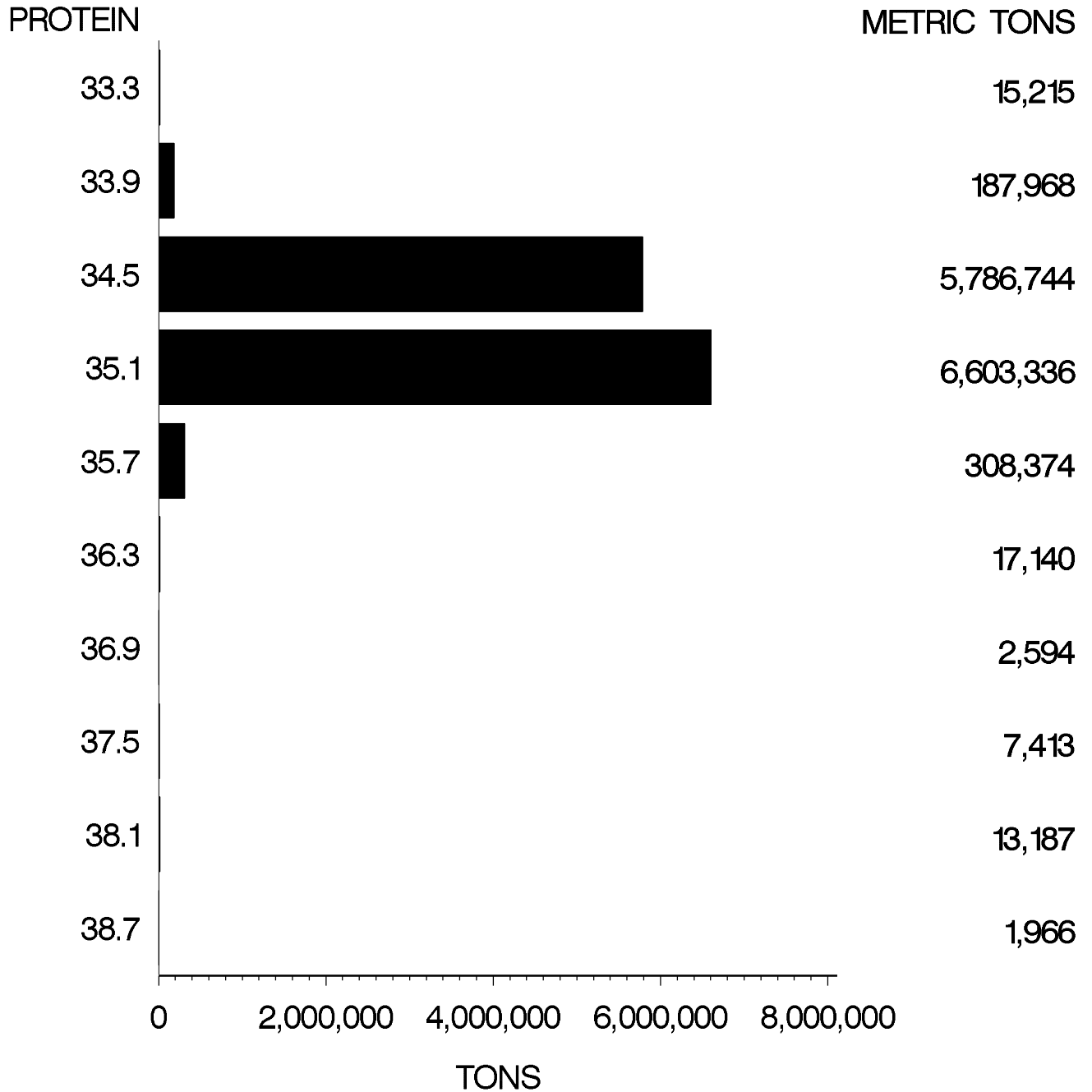
U.S. SOYBEANS EXPORTED, 2006

DISTRIBUTION FOR FM – GRADE 2



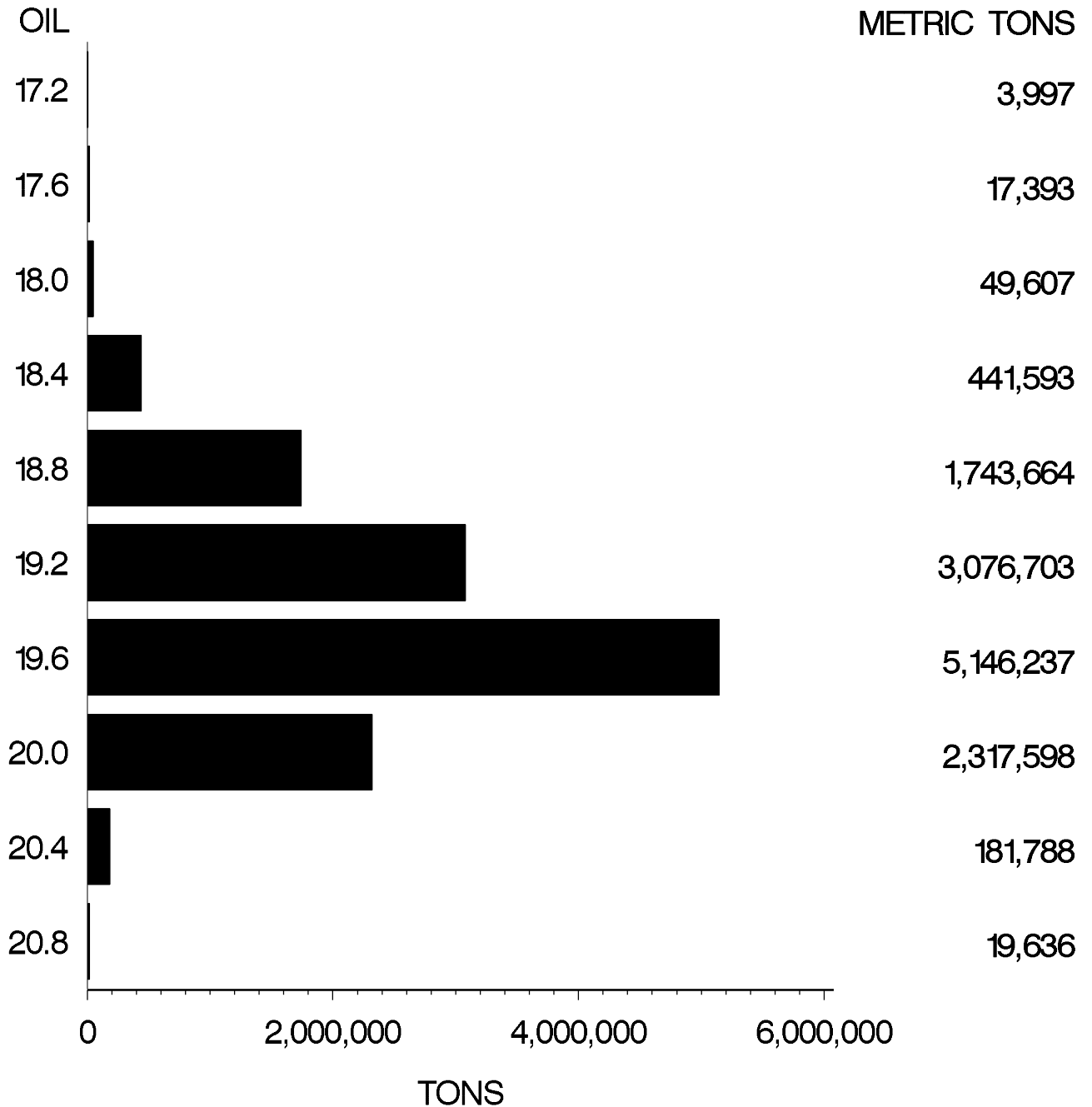
U.S. SOYBEANS EXPORTED, 2006

DISTRIBUTION FOR PROTEIN (13% M) – ALL GRADES



U.S. SOYBEANS EXPORTED, 2006

DISTRIBUTION FOR OIL (13% M) – ALL GRADES



Other Grain Exports

Sorghum

Sorghum Grades and Grade Requirements

Sorghum is divided into four classes: Sorghum, Tannin sorghum, White sorghum, and Mixed sorghum. There are no subclasses in sorghum. Each class is divided into four

numerical grades and U.S. Sample grade. Special grades are provided to emphasize special qualities or conditions affecting the value of sorghum. Special grades are added to and made a part of the grade designation. They do not affect the numerical or Sample grade designation.

U.S. Standards for Sorghum

Grade	Minimum test weight per bushel (pounds)	Maximum limits of -			
		Damaged kernels		Broken kernels and foreign material	
		Heat-damaged kernels (percent)	Total damaged kernels (percent)	Total (percent)	Foreign material
U.S.No. 1	57.0	0.2	2.0	4.0	1.5
U.S.No. 2	55.0	0.5	5.0	7.0	2.5
U.S.No. 3 ¹	53.0	1.0	10.0	10.0	3.5
U.S.No. 4	51.0	3.0	15.0	13.0	4.5
U.S. Sample grade					

U.S. Sample grade is sorghum that:

- (a) Does not meet the requirements for the grades U.S. Nos. 1, 2, 3, or 4; or
- (b) Contains 8 or more stones which have an aggregate weight in excess of 0.2 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), 8 or more cockleburs (*Xanthium* spp.) or similar seeds singly or in combination, 10 or more rodent pellets, bird droppings, or equivalent quantity of other animal filth; or
- (c) Has a musty, sour, or commercially objectionable foreign odor (except smut odor); or
- (d) Is badly weathered, heating, or of distinctly low quality.

¹ Sorghum which is distinctly discolored shall grade not higher than U.S. No. 3.

Sorghum

Definitions

Test weight (lb/bu) is pounds of grain per Winchester bushel (2.150.42 cubic inches) as determined using an approved device before the removal of dockage.

Test weight (kg/hl) is the metric system equivalent to pounds per bushel. Kilograms per hectoliter are calculated by multiplying pounds per bushel by 1.287.

Heat-damaged kernels are kernels, pieces of sorghum kernels, and other grains that are materially discolored and damaged by heat.

Damaged kernels are kernels, pieces of sorghum kernels, and other grains that are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, germ-damaged, heat-damaged, insect-bored, mold-damaged, sprout-damaged, or otherwise materially damaged.

Foreign material is all matter except sorghum, which passes over the number 6 riddle and all matter other than sorghum that remains on the top of the 5/64 triangular-hole sieve.

Broken kernels are all matter which passes through a 5/64 triangular-hole sieve and over a 2.5/64 round-hole sieve.

Broken kernels and foreign material consists of the combination of broken kernels and foreign material.

Dockage is all matter other than sorghum that can be removed from the original sample by use of an approved device. Also, underdeveloped, shriveled, and small pieces of sorghum kernels removed in properly separating the material other than sorghum.

Moisture is the water content of grain as determined by an approved moisture meter. The percentage of moisture in a sample does not affect the numerical grade.

Mixed sorghum is a sorghum which does not meet the minimum requirements for any of the classes of sorghum, Tannin sorghum or White sorghum.

Table 13. U.S. Sorghum Exports: Number of lots and quantity exported by class and grade, 2004-2006

Class	Grade	2004		2005		2006	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Yellow Sorghum	U.S. No. 1	--	--	1	3,264	--	--
	U.S. No. 2	235	2,926,726	283	3,118,253	282	3,466,468
	U.S. No. 3	--	--	2	17,063	--	--
	Not Inspected	--	--	--	--	3	29,780
	All lots	235	2,926,726	286	3,138,580	285	3,496,248
All Classes	U.S. No. 1	--	--	1	3,264	--	--
	U.S. No. 2	235	2,926,726	283	3,118,253	282	3,466,468
	U.S. No. 3	--	--	2	17,063	--	--
	Not Inspected	--	--	--	--	3	29,780
	All lots	235	2,926,726	286	3,138,580	285	3,496,248

-- = No lots reported in this category.

Table 14. Summary of export Sorghum quality, 2004-2006

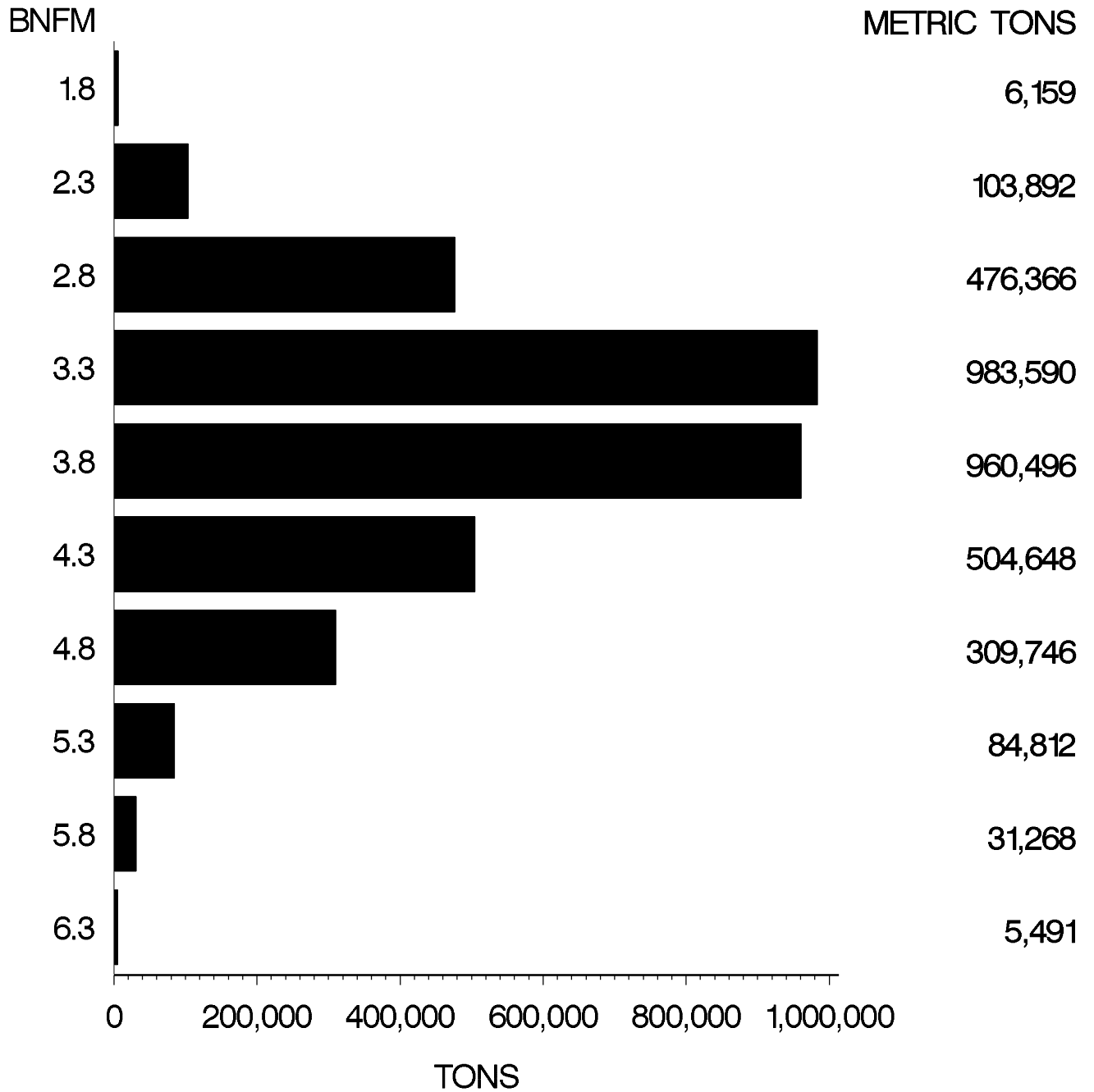
Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1		--	--	--	--	1	59.3	59.3	59.3	--	--	--	--
	U.S.No. 2	55.0	235	58.0	55.0	61.2	283	58.2	55.3	60.4	282	58.4	56.2	60.5
	U.S.No. 3	53.0	--	--	--	--	2	57.6	56.2	58.6	--	--	--	--
	All lots	N/A	235	58.0	55.0	61.2	286	58.2	55.3	60.4	282	58.4	56.2	60.5
Test Weight (kg/hl)	U.S.No. 1		--	--	--	--	1	76.4	76.4	76.4	--	--	--	--
	U.S.No. 2	N/A	235	74.7	70.8	78.7	283	74.9	71.2	77.8	282	75.2	72.4	77.9
	U.S.No. 3	N/A	--	--	--	--	2	74.2	72.3	75.4	--	--	--	--
	All lots	N/A	235	74.7	70.8	78.7	286	74.9	71.2	77.8	282	75.2	72.4	77.9
Moisture	U.S.No. 1		--	--	--	--	1	13.7	13.7	13.7	--	--	--	--
	U.S.No. 2	N/A	235	13.5	12.1	14.5	283	13.6	12.6	14.3	282	13.3	12.3	14.0
	U.S.No. 3	N/A	--	--	--	--	2	13.9	13.8	14.0	--	--	--	--
	All lots	N/A	235	13.5	12.1	14.5	286	13.6	12.6	14.3	282	13.3	12.3	14.0
Heat-damaged Kernels	U.S.No. 1		--	--	--	--	1	0.0	0.0	0.0	--	--	--	--
	U.S.No. 2	0.5	235	0.0	0.0	0.1	283	0.0	0.0	0.1	282	0.0	0.0	0.2
	U.S.No. 3	1.0	--	--	--	--	2	0.0	0.0	0.0	--	--	--	--
	All lots	N/A	235	0.0	0.0	0.1	286	0.0	0.0	0.1	282	0.0	0.0	0.2
Damaged Kernels (Total)	U.S.No. 1		--	--	--	--	1	0.9	0.9	0.9	--	--	--	--
	U.S.No. 2	5.0	235	1.4	0.0	4.1	283	1.1	0.0	3.3	282	1.2	0.1	4.9
	U.S.No. 3	10.0	--	--	--	--	2	1.7	1.5	1.9	--	--	--	--
	All lots	N/A	235	1.4	0.0	4.1	286	1.1	0.0	3.3	282	1.2	0.1	4.9
Broken Kernels and Foreign Material	U.S.No. 1		--	--	--	--	1	3.4	3.4	3.4	--	--	--	--
	U.S.No. 2	7.0	235	3.8	1.8	5.6	283	3.6	1.5	5.5	282	3.6	1.9	6.1
	U.S.No. 3	10.0	--	--	--	--	2	5.2	4.9	5.6	--	--	--	--
	All lots	N/A	235	3.8	1.8	5.6	286	3.6	1.5	5.6	282	3.6	1.9	6.1
Broken Kernels	U.S.No. 1		--	--	--	--	--	--	--	--	--	--	--	--
	U.S.No. 2	N/A	36	2.4	1.3	2.8	11	2.1	1.7	4.4	1	1.8	1.8	1.8
	U.S.No. 3	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	36	2.4	1.3	2.8	11	2.1	1.7	4.4	1	1.8	1.8	1.8
Foreign Material	U.S.No. 1		--	--	--	--	1	1.1	1.1	1.1	--	--	--	--
	U.S.No. 2	2.5	235	1.1	0.0	2.5	283	1.0	0.0	2.3	282	1.1	0.0	2.4
	U.S.No. 3	3.5	--	--	--	--	2	1.2	0.0	3.0	--	--	--	--
	All lots	N/A	235	1.1	0.0	2.5	286	1.0	0.0	3.0	282	1.1	0.0	2.4
Dockage	U.S.No. 1		--	--	--	--	1	0.1	0.1	0.1	--	--	--	--
	U.S.No. 2	N/A	234	0.2	0.1	0.5	276	0.2	0.1	0.4	278	0.2	0.1	0.4
	U.S.No. 3	N/A	--	--	--	--	2	0.3	0.2	0.3	--	--	--	--
	All lots	N/A	234	0.2	0.1	0.5	279	0.2	0.1	0.4	278	0.2	0.1	0.4

N/A = Does not apply.

-- = No lots reported in this category.

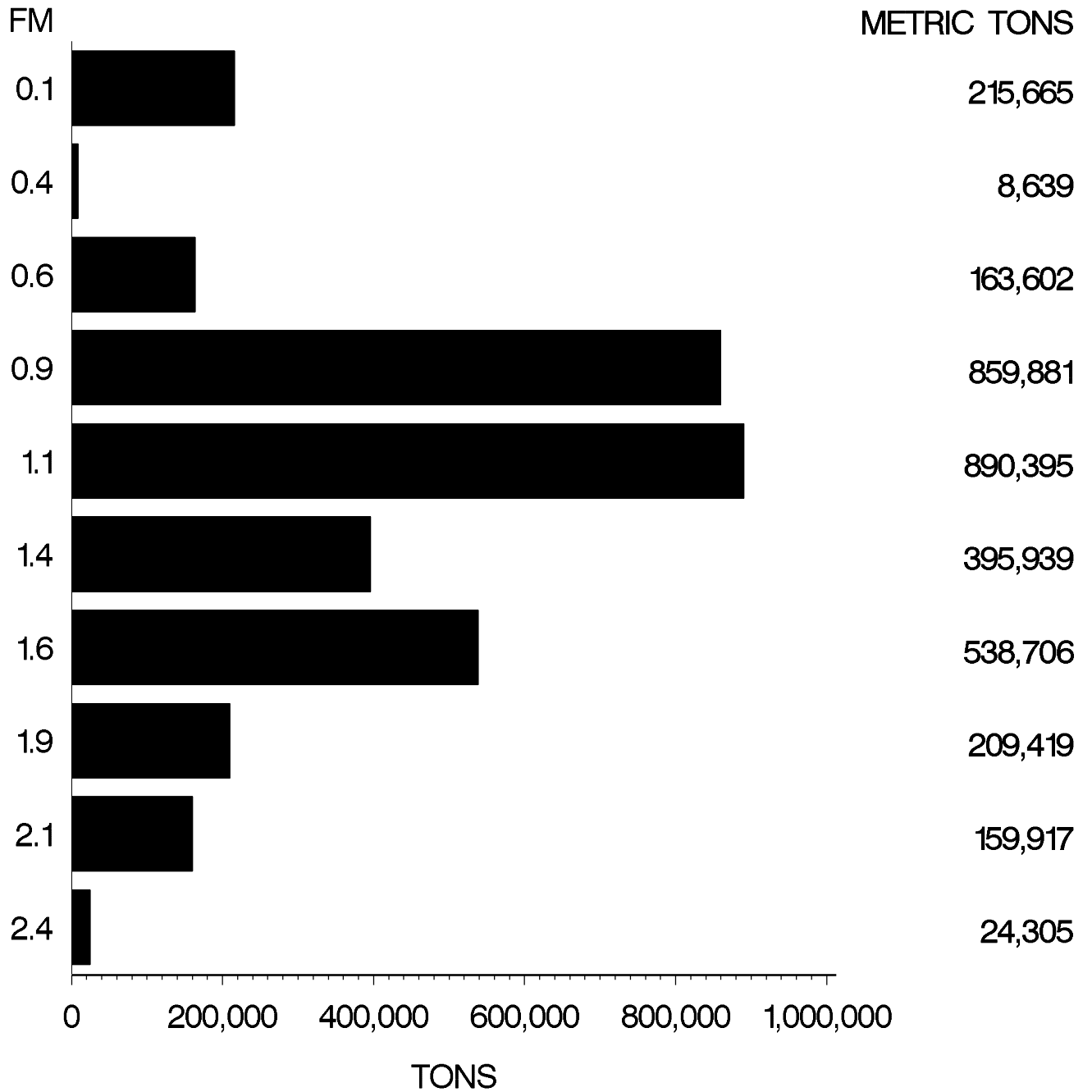
U.S. SORGHUM EXPORTED, 2006

DISTRIBUTION FOR BNFM – GRADE 2



U.S. SORGHUM EXPORTED, 2006

DISTRIBUTION FOR FM – GRADE 2



Barley

Barley Grades and Grade Requirements*

Barley is divided into two classes: Malting barley and Barley. The class Malting barley is divided into three subclasses: Six-Rowed Malting Barley, Six-Rowed Blue Malting barley, and Two-Rowed Malting barley. The class Barley is divided

into three subclasses: Six Rowed barley, Two-Rowed barley, and Barley. The applicant for service may request either the malting standards or barley standards for malting types.

* The United States Standards for Barley were revised effective June 1, 1997. The former standards appear in the 1996 U.S. Grain Exports: *Quality Report*.

Grades and grade requirements for Six-rowed Malting barley and Six-rowed Blue Malting barley

Grade	Minimum limits of -			Maximum limits of -				
	Test weight per bushel (pounds)	Suitable malting type (percent)	Sound barley ¹ (percent)	Damaged kernels ¹ (percent)	Foreign Material (percent)	Other grains (percent)	Skinned and broken kernels (percent)	Thin barley ² (percent)
U.S. No. 1	47.0	95.0	97.0	2.0	0.5	2.0	4.0	7.0
U.S. No. 2	45.0	95.0	94.0	3.0	1.0	3.0	6.0	10.0
U.S. No. 3	43.0	95.0	90.0	4.0	2.0	5.0	8.0	15.0
U.S. No. 4	43.0	95.0	87.0	5.0	3.0	5.0	10.0	15.0

1 Injured-by-frost kernels and injured-by-mold kernels are not considered damaged kernels or considered against sound barley.

2 Using a 5.5/64 x 3/4 slotted-hole sieve.

NOTE: Malting barley shall not be infested, blighted, ergoty, garlicky, smutty, or contain any special grades. Upon request, malting barley varieties may be inspected and graded in accordance with standards established for the class Barley.

Six-rowed Malting and Six-rowed Blue Malting barley that does not meet the requirements for U.S. Nos. 1, 2, 3, or 4 Malting shall be graded under the Barley standards.

Grades and grade requirements for Two-rowed Malting barley

Grade	Minimum limits of -			Maximum limits of -			
	Test weight per bushel (pounds)	Suitable malting type (percent)	Sound barley ¹ (percent)	Wild Oats (percent)	Foreign Material (percent)	Skinned and broken kernels (percent)	Thin barley ² (percent)
U.S. No. 1	50.0	97.0	98.0	1.0	0.5	5.0	5.0
U.S. No. 2	48.0	97.0	98.0	1.0	1.0	7.0	7.0
U.S. No. 3	48.0	95.0	96.0	2.0	2.0	10.0	10.0
U.S. No. 4	48.0	95.0	93.0	3.0	3.0	10.0	10.0

1 Injured-by-frost kernels and injured-by-mold kernels are not considered damaged kernels or considered against sound barley.

2 Using a 5.5/64 x 3/4 slotted-hole sieve.

NOTE: Malting barley shall not be infested, blighted, ergoty, garlicky, smutty, or contain any special grades. Upon request, malting barley varieties may be inspected and graded in accordance with standards established for the class Barley.

Two-rowed barley that does not meet the requirements for U.S. Nos. 1, 2, 3, or 4 Malting shall be graded under the Barley standards.

Grades and grade requirements for Barley

Grade	Minimum limits of -		Maximum limits of -				
	Test weight per bushel (pounds)	Sound barley (percent)	Damaged kernels ¹ (percent)	Heat-damaged kernels (percent)	Foreign Material (percent)	Broken kernels (percent)	Thin barley ² (percent)
U.S. No. 1	47.0	97.0	2.0	0.2	1.0	4.0	10.0
U.S. No. 2	45.0	94.0	4.0	0.3	2.0	8.0	15.0
U.S. No. 3	43.0	90.0	6.0	0.5	3.0	12.0	25.0
U.S. No. 4	40.0	85.0	8.0	1.0	4.0	18.0	35.0
U.S. No. 5	36.0	75.0	10.0	3.0	5.0	28.0	75.0
U.S. Sample Grade							

U.S. Sample grade shall be barley that:

- Does not meet the requirements for the grades U.S. No. 1, 2, 3, 4, or 5; or
- Contains 8 or more stones or any number of stones which have an aggregate weight in excess of 0.2 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), 8 or more cocklebur (*Xanthium* spp.) or similar seeds singly or in combination, 10 or more rodent pellets, bird droppings, or equivalent quantity of other animal filth per 1-1/8 to 1-1/4 quarts of barley; or
- Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor); or
- Is heating or otherwise of distinctly low quality.

1 Includes heat-damaged kernels. Injured-by-frost kernels and injured-by-mold kernels are not considered damaged kernels.

2 Using a 5/64 x 3/4 slotted-hole sieve.

Barley

Definitions

Test weight (lb/bu) is pounds of grain per Winchester bushel as determined using an approved device on a dockage-free barley sample.

Test weight (kg/hl) is the metric system equivalent to pounds per bushel. Kilograms per hectoliter are calculated by multiplying pounds per bushel by 1.287.

Heat-damaged kernels are kernels and pieces of barley kernels, other grains, and wild oats that are materially discolored and damaged by heat.

Damaged kernels are kernels, pieces of barley kernels, other grains, and wild oats that are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, germ-damaged, heat-damaged, injured-by-heat, insect-bored, mold-damaged, sprout-damaged, or otherwise materially damaged.

Foreign material is all matter other than barley, other grains, and wild oats that remains in the sample after removal of dockage.

Skinned and broken kernels are barley kernels that have one-third or more of the hull removed, or that the hull is loose or missing over the germ, or broken kernels, or whole kernels that have a part or all of the germ missing.

Dockage is all matter other than barley that can be removed from the original sample by use of an approved device. Also, underdeveloped, shriveled, and small pieces of barley kernels removed by properly separating the material other than barley and that cannot be recovered by properly rescreening or recleaning.

Moisture is the water content of grain as determined by an approved moisture meter. The percentage of moisture in a sample does not affect the numerical grade.

Suitable malting type are varieties of malting barley that are recommended by the American Malting Barley Association and any other proprietary malting type(s) used by the malting and brewing industries.

Sound barley is kernels and pieces of barley kernels that are not damaged.

Thin barley is :

Six-rowed Malting barley that passes through a 5/64 x 3/4 slotted-hole sieve and Two-rowed Malting barley that passes through a 5.5/64 x 3/4 slotted-hole sieve.

Six-rowed barley, Two-rowed barley, or Barley that passes through a 5/64 x 3/4 slotted-hole sieve.

Table 15. U.S. Barley Exports: Number of lots and quantity exported by class and grade, 2004-2006

Class	Grade	2004		2005		2006	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
	U.S.No. 1	1	14,830	--	--	--	--
	U.S.No. 2	14	197,344	32	610,596	18	305,800
	U.S.No. 3	2	15,244	--	--	--	--
	U.S.No. 4	1	5,962	--	--	--	--
	All lots	18	233,380	32	610,596	18	305,800

-- = No lots reported in this category.

Table 16. Summary of export Barley quality, 2004-2006

Factor	Grade	2004					2005				2006			
		Grade Limit	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S. No. 1	47.0	1	52.5	52.5	52.5	--	--	--	--	--	--	--	--
	U.S. No. 2	45.0	14	51.4	49.5	54.0	32	50.9	47.5	54.6	18	51.8	47.5	54.3
	U.S. No. 3	43.0	2	53.8	53.3	55.0	--	--	--	--	--	--	--	--
	U.S. No. 4	43.0	1	55.5	55.5	55.5	--	--	--	--	--	--	--	--
	All lots	N/A	18	51.8	49.5	55.5	32	50.9	47.5	54.6	18	51.8	47.5	54.3
Test Weight (kg/hl)	U.S. No. 1	N/A	1	67.6	67.6	67.6	--	--	--	--	--	--	--	--
	U.S. No. 2	N/A	14	66.2	63.7	69.5	32	65.5	61.2	70.3	18	66.7	61.2	69.9
	U.S. No. 3	N/A	2	69.3	68.7	70.8	--	--	--	--	--	--	--	--
	U.S. No. 4	N/A	1	71.5	71.5	71.5	--	--	--	--	--	--	--	--
	All lots	N/A	18	66.6	63.7	71.5	32	65.5	61.2	70.3	18	66.7	61.2	69.9
Moisture	U.S. No. 1	N/A	1	11.5	11.5	11.5	--	--	--	--	--	--	--	--
	U.S. No. 2	N/A	14	10.7	9.9	11.4	32	11.8	9.8	13.2	18	11.0	9.9	13.3
	U.S. No. 3	N/A	2	11.2	10.6	11.4	--	--	--	--	--	--	--	--
	U.S. No. 4	N/A	1	11.4	11.4	11.4	--	--	--	--	--	--	--	--
	All lots	N/A	18	10.8	9.9	11.5	32	11.8	9.8	13.2	18	11.0	9.9	13.3
Heat-damaged Kernels	U.S. No. 1	0.2	1	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	U.S. No. 2	0.3	14	0.0	0.0	0.0	32	0.0	0.0	0.0	18	0.0	0.0	0.1
	U.S. No. 3	0.5	2	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	U.S. No. 4	1.0	1	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	All lots	N/A	18	0.0	0.0	0.0	32	0.0	0.0	0.0	18	0.0	0.0	0.1
Damaged Kernels (Total)	U.S. No. 1	2.0	1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
	U.S. No. 2	4.0	14	0.5	0.0	2.6	32	0.7	0.0	1.6	18	0.4	0.0	3.1
	U.S. No. 3	6.0	2	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	U.S. No. 4	8.0	1	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	All lots	N/A	18	0.4	0.0	2.6	32	0.7	0.0	1.6	18	0.4	0.0	3.1
Foreign Material	U.S. No. 1	1.0	1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
	U.S. No. 2	2.0	14	0.1	0.0	0.2	32	0.1	0.0	0.2	18	0.1	0.0	0.2
	U.S. No. 3	3.0	2	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	U.S. No. 4	4.0	1	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	All lots	N/A	18	0.1	0.0	0.2	32	0.1	0.0	0.2	18	0.1	0.0	0.2
Sound Barley	U.S. No. 1	97.0	1	99.4	99.4	99.4	--	--	--	--	--	--	--	--
	U.S. No. 2	94.0	14	98.2	96.4	99.9	32	98.7	95.8	99.9	18	96.4	0.0	99.9
	U.S. No. 3	90.0	2	99.5	99.4	99.5	--	--	--	--	--	--	--	--
	U.S. No. 4	87.0	1	100	100	100	--	--	--	--	--	--	--	--
	All lots	N/A	18	98.4	96.4	100	32	98.7	95.8	99.9	18	96.4	0.0	99.9

-- = No lots reported in this category.

continued

Table 16. Summary of export Barley quality, 2004-2006 -- Continued

Factor	Grade	Grade Limit	2004				2005				2006			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Thin Barley	U.S. No. 1	10.0	1	5.2	5.2	5.2	--	--	--	--	--	--	--	--
	U.S. No. 2	15.0	14	8.8	2.7	11.9	32	5.1	0.0	8.8	18	7.0	1.8	12.8
	U.S. No. 3	15.0	2	6.2	5.9	6.3	--	--	--	--	--	--	--	--
	U.S. No. 4	15.0	1	0.7	0.7	0.7	--	--	--	--	--	--	--	--
	All lots	N/A	18	8.2	0.7	11.9	32	5.1	0.0	8.8	18	7.0	1.8	12.8
Broken Kernels	U.S. No. 1	4.0	1	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	U.S. No. 2	8.0	14	0.0	0.0	0.0	32	0.0	0.0	0.0	18	0.2	0.0	0.9
	U.S. No. 3	12.0	2	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	U.S. No. 4	12.0	1	0.0	0.0	0.0	--	--	--	--	--	--	--	--
	All lots	N/A	18	0.0	0.0	0.0	32	0.0	0.0	0.0	18	0.2	0.0	0.9
Dockage	U.S. No. 1	N/A	1	0.2	0.2	0.2	--	--	--	--	--	--	--	--
	U.S. No. 2	N/A	14	1.1	0.5	1.3	31	1.1	0.4	1.5	18	0.9	0.5	1.7
	U.S. No. 3	N/A	2	1.0	1.0	1.1	--	--	--	--	--	--	--	--
	U.S. No. 4	N/A	1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
	All lots	N/A	18	1.0	0.1	1.3	31	1.1	0.4	1.5	18	0.9	0.5	1.7

N/A = Does not apply.

-- = No lots reported in this category.

Flaxseed

Flaxseed Grades and Grade Requirements

There are no classes of flaxseed. Flaxseed is divided into two numerical grades and U.S. Sample grade. Other determinations not specifically provided for under the general provisions are made on the basis of the grain when free from

dockage, except the determination of odor is made on either the basis of the grain as a whole or the grain when free from dockage.

U.S. Standards for Flaxseed

Grade	Minimum test weight per bushel (pounds)	Maximum limits of damaged kernels	
		Heat damaged kernels (percent)	Total (percent)
U.S. No. 1	49.0	0.2	10.0
U.S. No. 2	47.0	0.5	15.0
U.S. Sample Grade			

U.S. Sample grade is flaxseed that:

- (a) Does not meet the requirements for the grades U.S. Nos. 1 or 2; or
- (b) Contains 8 or more stones which have an aggregate weight in excess of 0.2 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), 10 or more rodent pellets, bird dropping, or equivalent quantity of other animal filth per 1-1/8 to 1-1/4 quarts of flaxseed; or
- (c) Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor), or
- (d) Is heating or otherwise of distinctly low quality.

Flaxseed

Definitions

Flaxseed. Grain that, before the removal of dockage, consists of 50 percent or more of common flaxseed (*Linum usitatissimum* L.) and not more than 20 percent of other grains for which standards have been established under the United States Grain Standards Act and which, after the removal of dockage, contains 50 percent or more of whole flaxseed.

Damaged kernels. Kernels and pieces of flaxseed kernels that are badly grounddamaged, badly weather-damaged, diseased, frost-damaged, germ-damaged, heatdamaged, insect-bored, mold-damaged, sprout-damaged, or otherwise materially damaged.

Dockage. All matter other than flaxseed that can be removed from the original sample by use of an approved device according to procedures prescribed in FGIS instructions. Also, underdeveloped, shriveled, and small pieces of flaxseed kernels removed in properly separating the material other than flaxseed and that cannot be recovered by properly rescreening or recleaning.

Heat-damaged kernels. Kernels and pieces of flaxseed kernels that are materially discolored and damaged by heat.

Other grains. Barley, corn, cultivated buckwheat, einkorn, emmer, guar, hull-less barley, nongrain sorghum, oats, Polish wheat, popcorn, poulard wheat, rice, rye, safflower, sorghum, soybeans, spelt, sunflower seed, sweet corn, triticale, wheat, and wild oats.

Table 17. U.S. Flaxseed Exports: Number of lots and quantity exported by class and grade, 2004-2006

	2004		2005		2006	
	Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
U.S.No. 1	3	22,935	10	81,633	4	24,953
All lots	3	22,935	10	81,633	4	24,953

-- = No lots reported in this category.

Table 18. Summary of export Flaxseed quality, 2004-2006

Factor	Grade	Grade Limit	2004			2005			2006					
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S.No. 1	49.0	3	50.2	49.4	51.3	10	50.6	49.5	50.9	4	50.5	50.3	50.6
	All lots	N/A	3	50.2	49.4	51.3	10	50.6	49.5	50.9	4	50.5	50.3	50.6
Test Weight (kg/hl)	U.S.No. 1	N/A	3	64.6	63.6	66.0	10	65.2	63.7	65.5	4	65.0	64.8	65.1
	All lots	N/A	3	64.6	63.6	66.0	10	65.2	63.7	65.5	4	65.0	64.8	65.1
Moisture	U.S.No. 1	N/A	3	7.6	7.4	7.7	10	7.5	6.9	8.0	4	7.3	6.9	7.6
	All lots	N/A	3	7.6	7.4	7.7	10	7.5	6.9	8.0	4	7.3	6.9	7.6
Heat-damaged kernels	U.S.No. 1	0.2	3	0.0	0.0	0.0	10	0.0	0.0	0.1	4	0.0	0.0	0.0
	All lots	N/A	3	0.0	0.0	0.0	10	0.0	0.0	0.1	4	0.0	0.0	0.0
Damaged Flaxseed (Total)	U.S.No. 1	10.0	3	0.2	0.0	0.4	10	0.0	0.0	0.2	4	0.1	0.0	0.2
	All lots	N/A	3	0.2	0.0	0.4	10	0.0	0.0	0.2	4	0.1	0.0	0.2
Dockage	U.S.No. 1	N/A	3	4.8	3.6	5.7	10	5.0	4.0	6.5	4	6.0	5.4	6.9
	All lots	N/A	3	4.8	3.6	5.7	10	5.0	4.0	6.5	4	6.0	5.4	6.9

N/A = Does not apply.

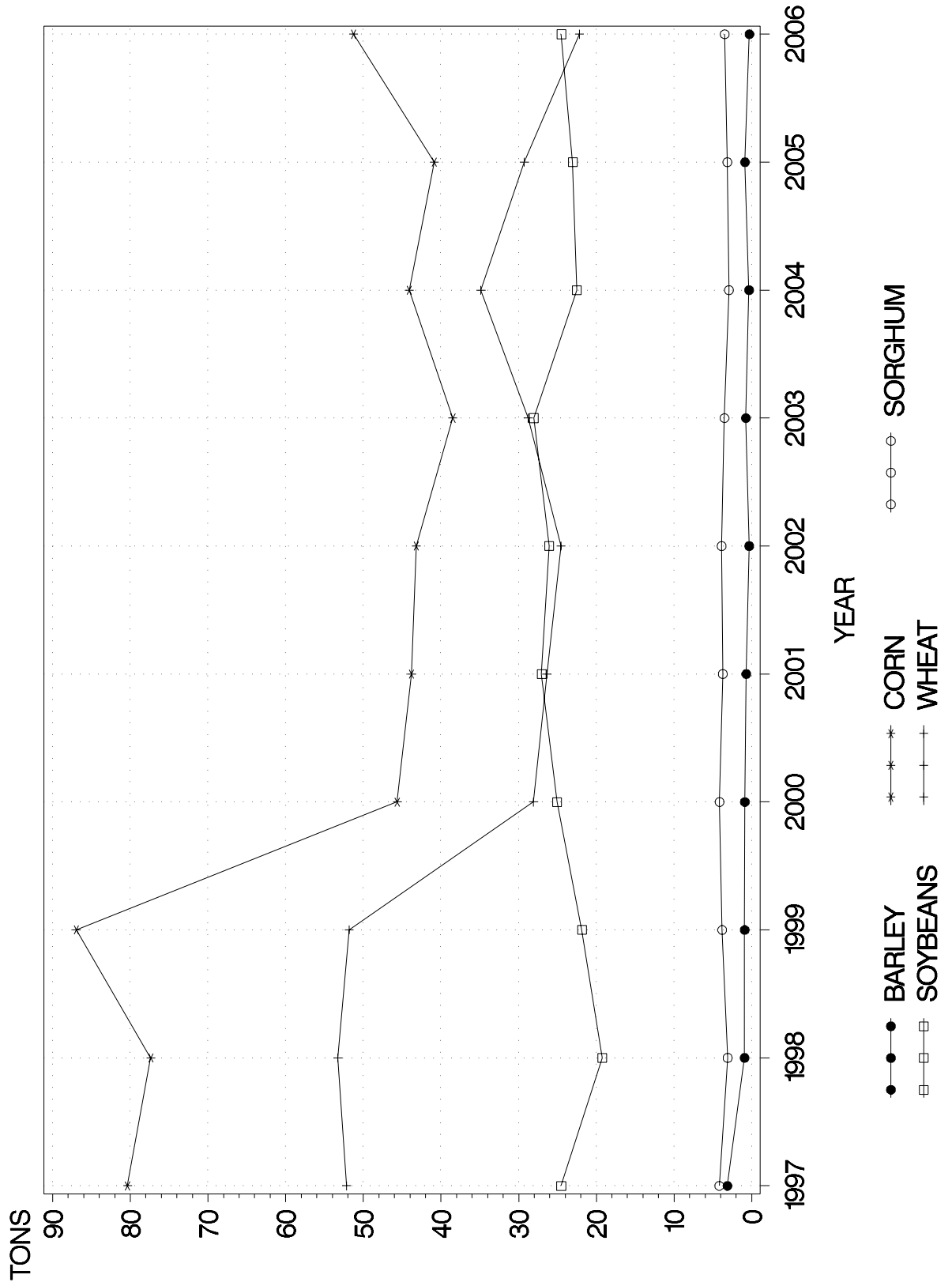
-- = No lots reported in this category.

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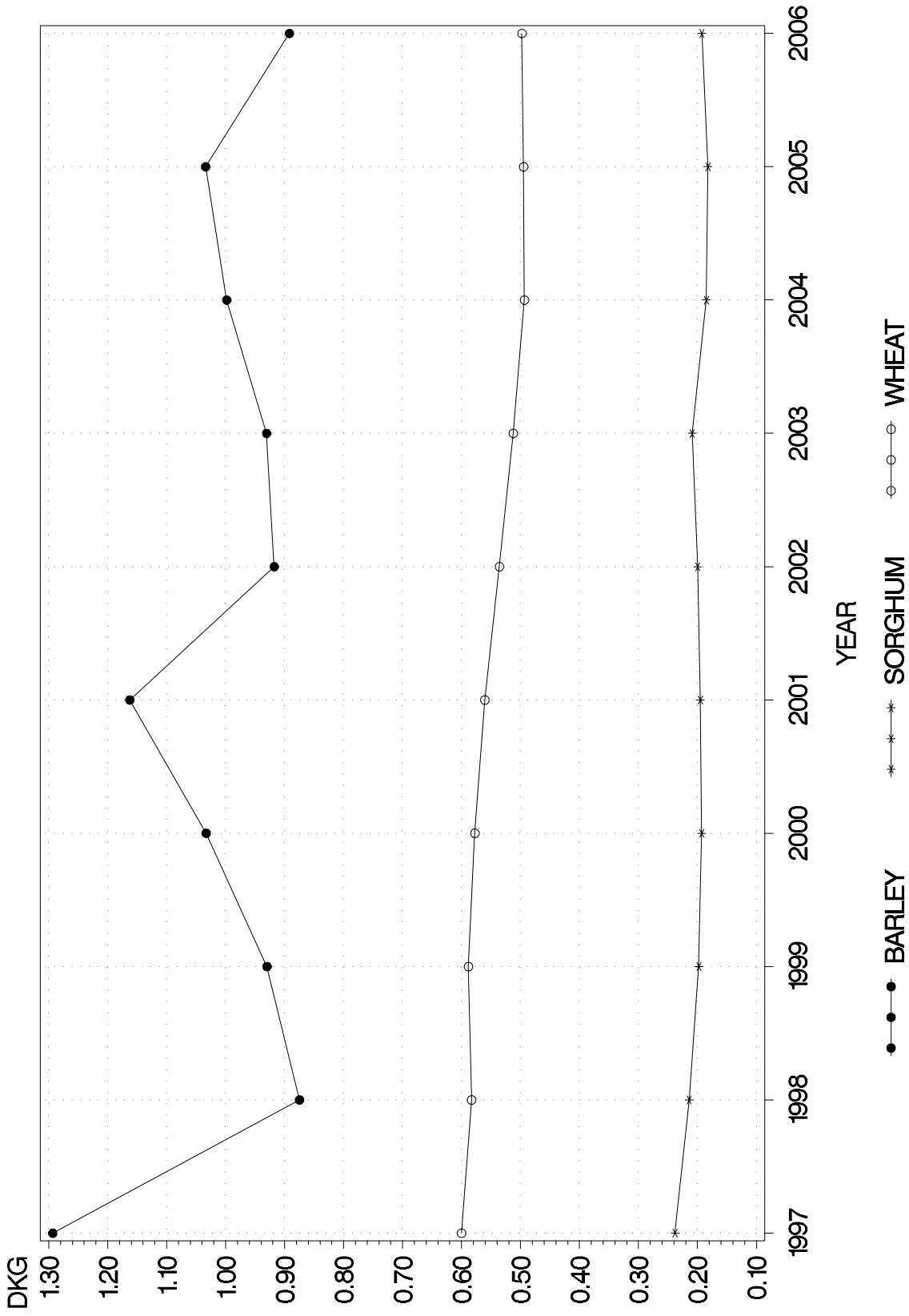
U.S. GRAIN QUANTITY EXPORTED, 1997--2006

METRIC TONS IN MILLIONS



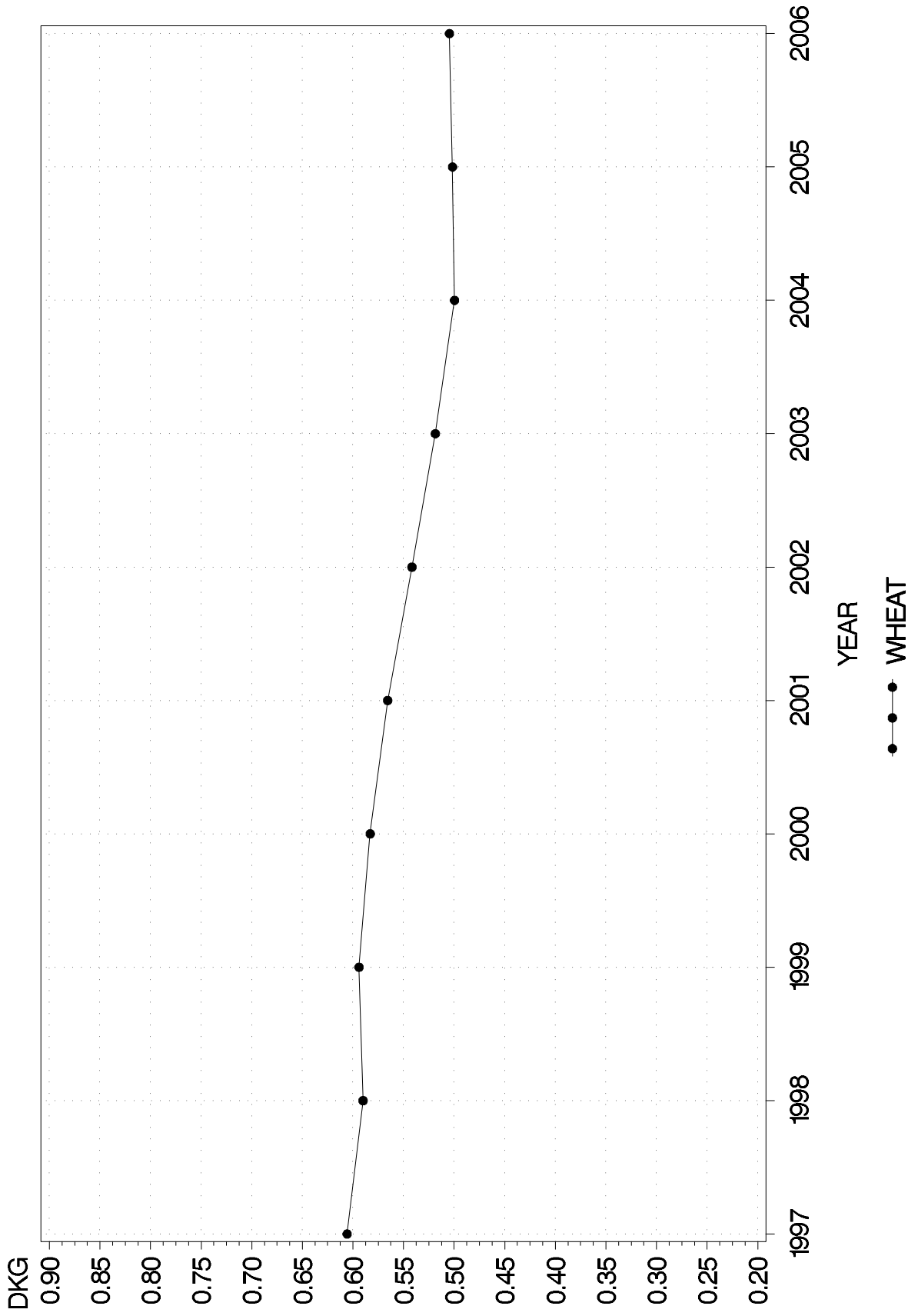
U.S. GRAIN EXPORTED, 1997--2006

AVG DOCKAGE BY GRAIN



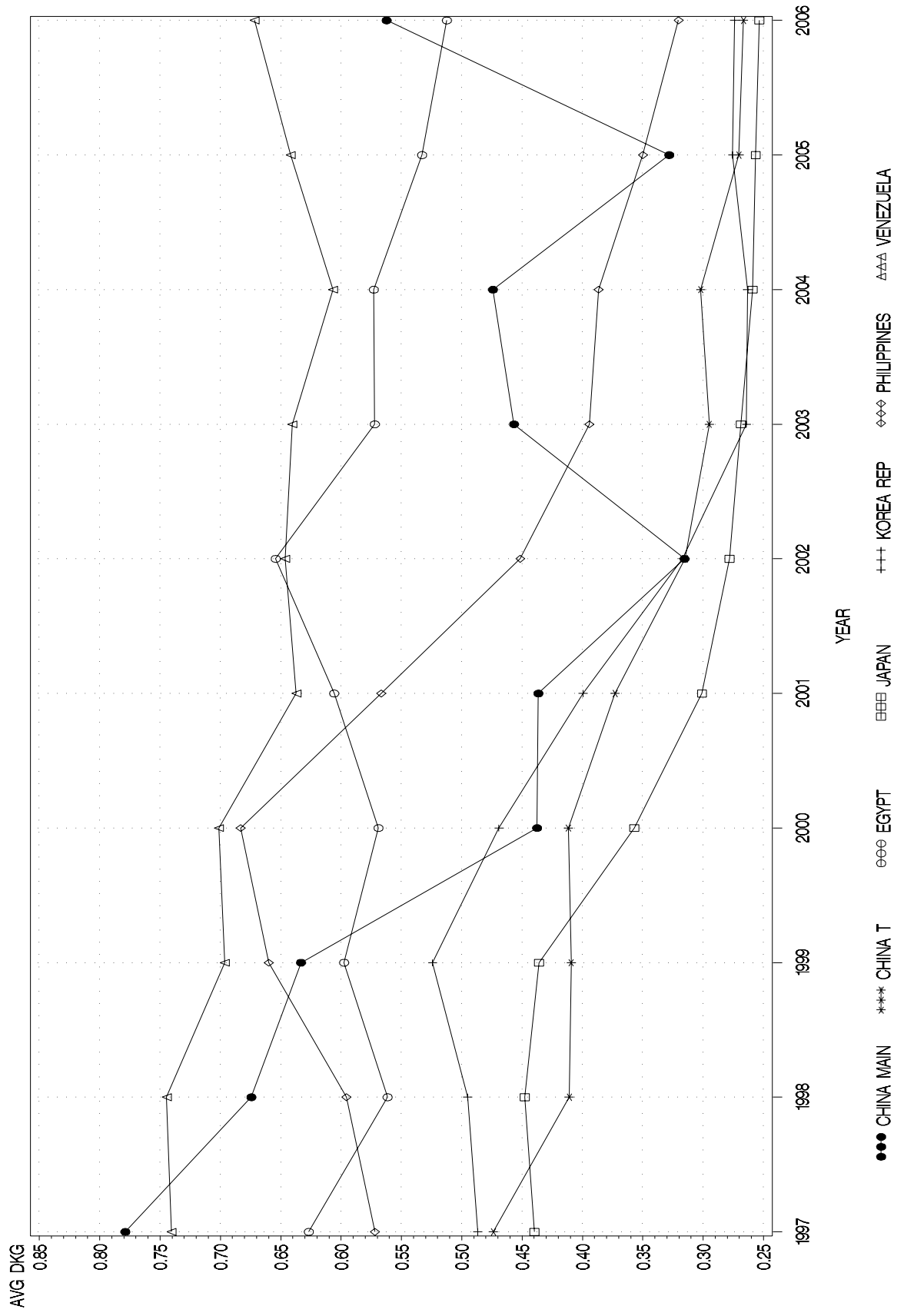
U.S. WHEAT EXPORTED, 1997--2006

AVG DOCKAGE



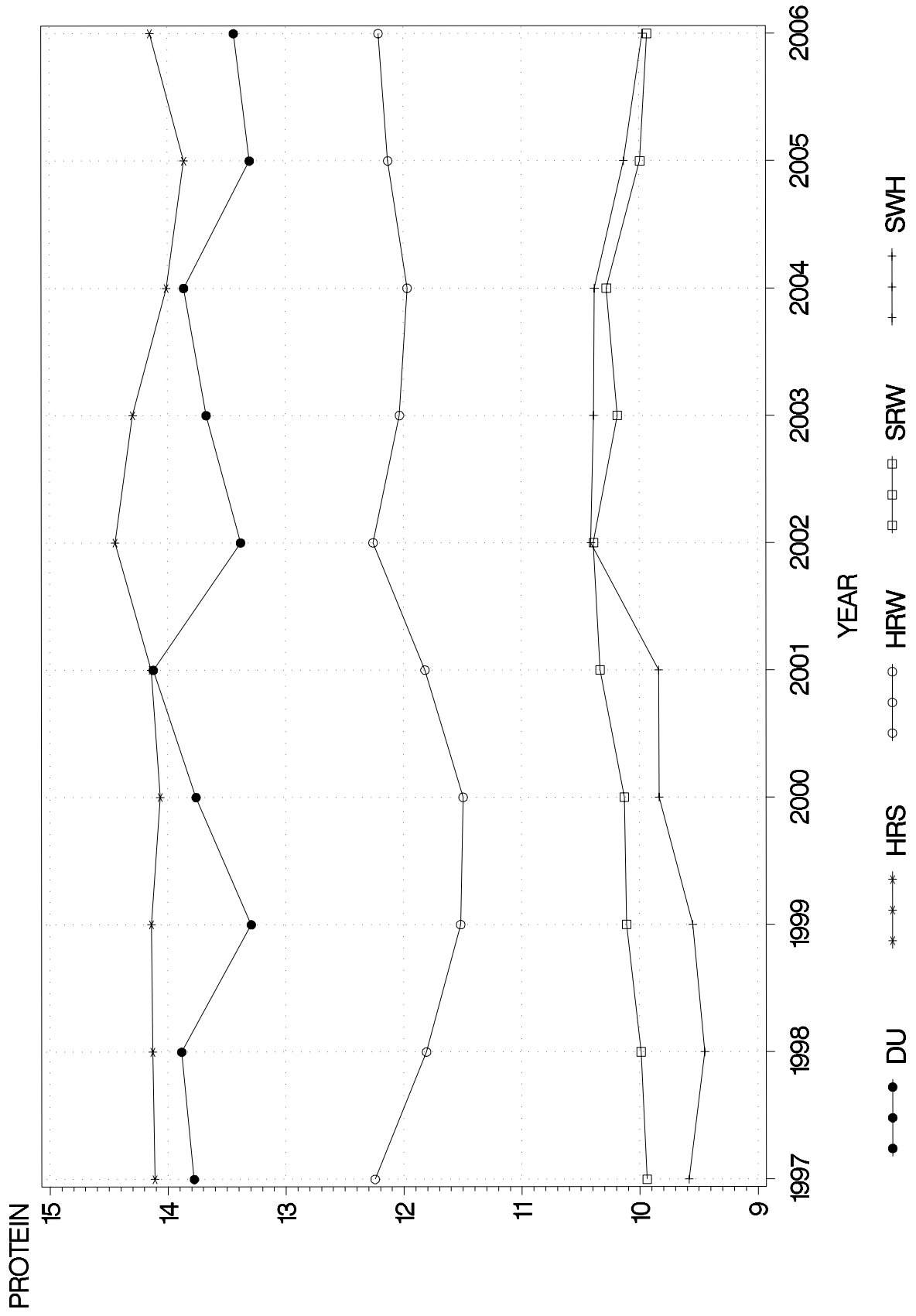
U.S. WHEAT EXPORTED, 1997 – 2006

AVG DOCKAGE BY DESTINATION COUNTRY



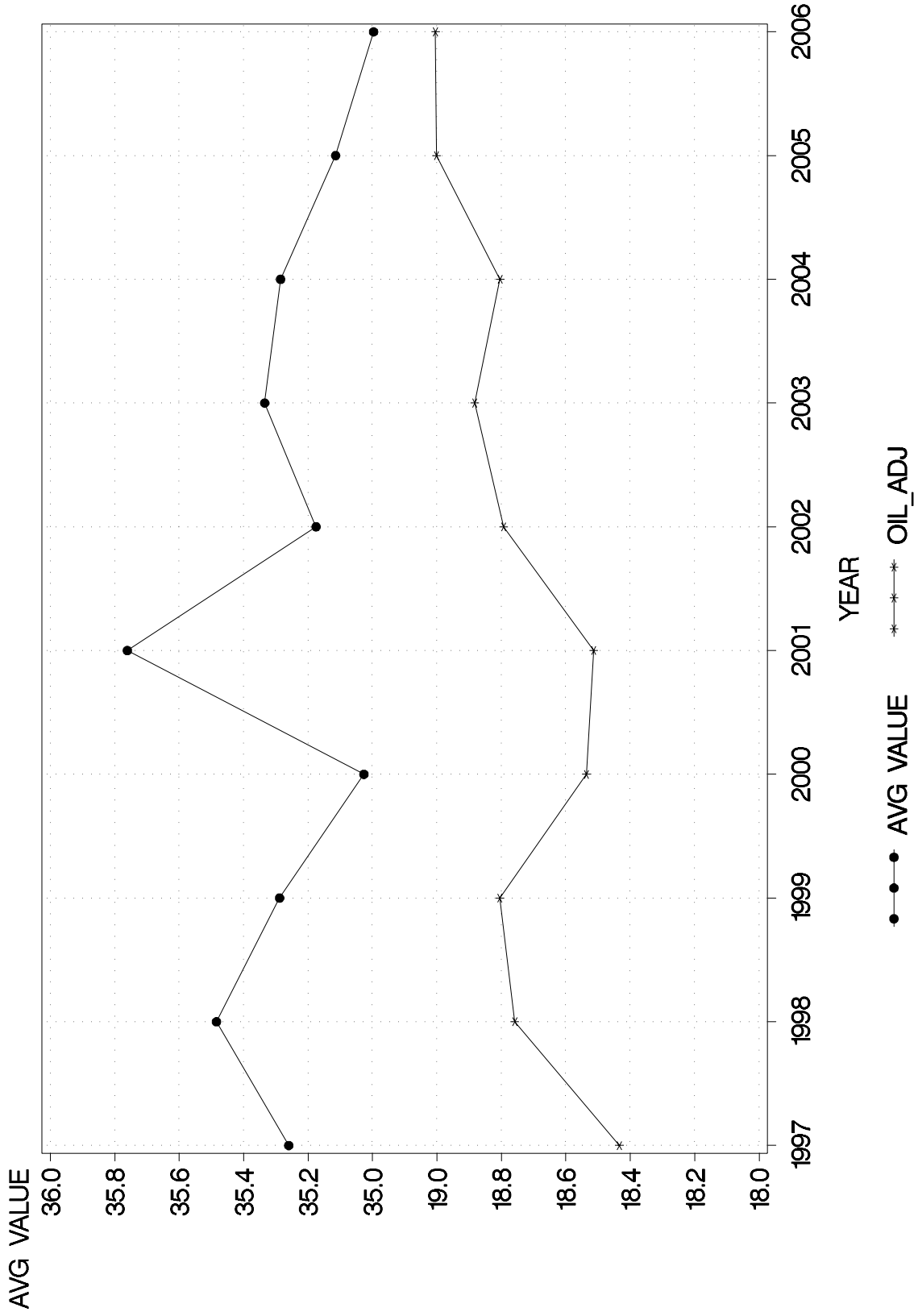
U.S. WHEAT EXPORTED, 1997--2006

AVG PROTEIN(12% M) BY CLASS



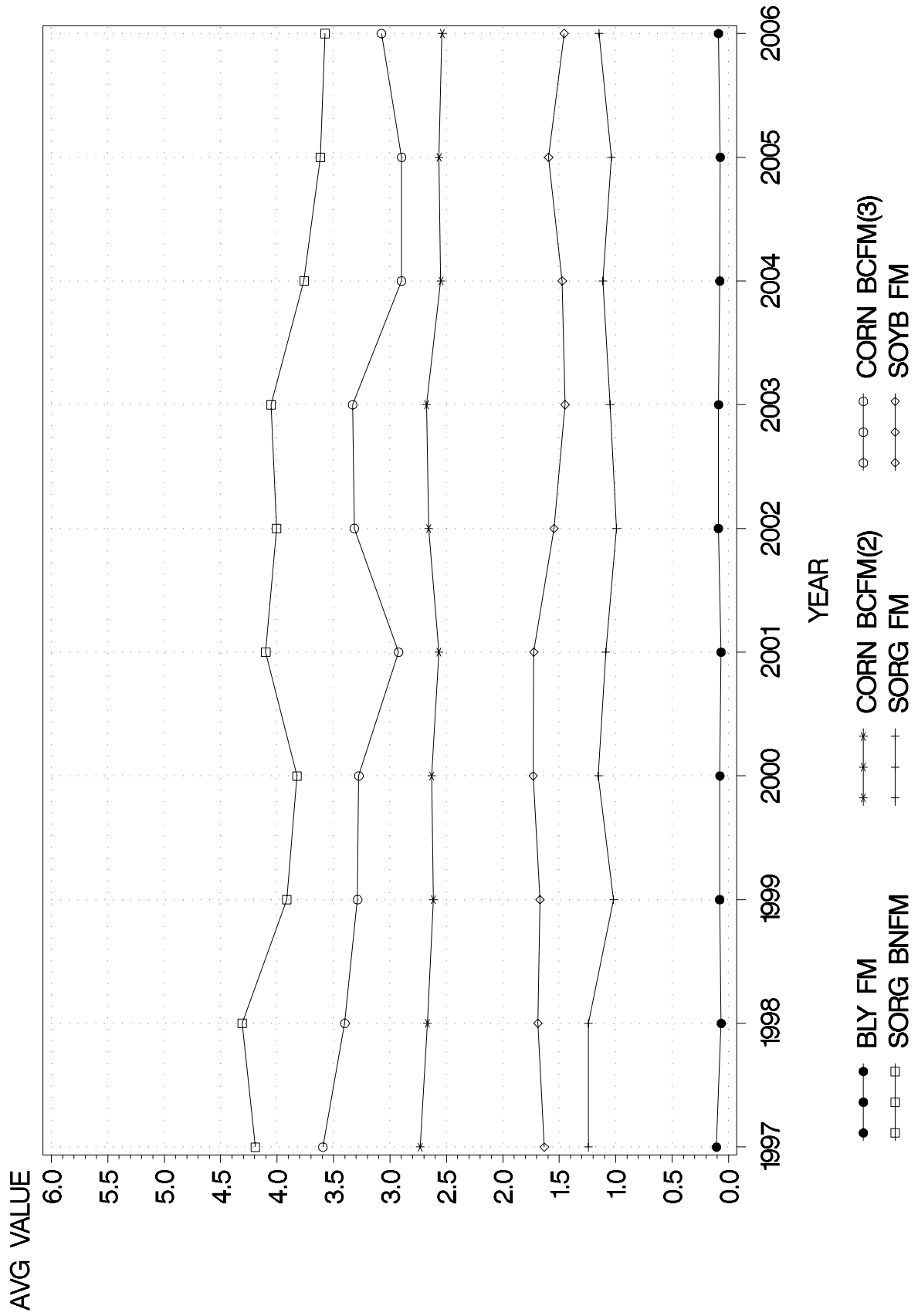
U.S. SOYBEANS EXPORTED, 1997--2006

AVG PROTEIN AND OIL (13% M)



U.S. GRAINS EXPORTED, 1997--2006

AVG FM BNFM BCFM



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