



Grain Inspection,
Packers and
Stockyards
Administration

Federal Grain
Inspection
Service

2008 U.S. Grain Exports: Quality Report



*25th
Edition*

Table of Contents

Introduction	1
Export Wheat	3
Number of Lots and Quantity Exported by Class and Grade	5
Hard Red Winter Wheat	7
Hard Red Spring Wheat	11
Soft Red Winter Wheat	15
Durum Wheat	19
Soft White Wheat	24
Hard White Wheat	28
Mixed Wheat	30
Export Corn	31
Number of Lots and Quantity Exported by Class and Grade	33
Yellow Corn	34
White Corn	36
Export Soybeans	39
Number of Lots and Quantity Exported by Class and Grade	40
Soybeans	41
Other Grain Exports	46
Sorghum	46
Barley	52
Canola	56
Flaxseed	59
Appendix	62
Index of Tables	70

Introduction

The *2008 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 2008 report is the twenty-fifth edition of this annual summary of export grain quality. The report summarizes the quality of export wheat, corn, soybeans, sorghum, barley, 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 87 percent of the total export lots in the EGIS database for 2008.

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, 2006-2008

Class	Grade	2006		2007		2008	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Hard Red Winter Wheat	U.S. No. 1	75	467,741	79	559,364	65	516,065
	U.S. No. 2	466	6,937,258	643	10,897,995	671	12,740,901
	U.S. No. 3	--	--	1	2,750	8	94,776
	Not Inspected	--	--	1	25,136	2	21,419
	All lots	541	7,404,999	724	11,485,245	746	13,373,161
Hard Red Spring Wheat	U.S. No. 1	121	1,084,861	130	1,474,784	85	911,258
	U.S. No. 2	439	5,222,860	467	6,077,029	405	5,037,709
	U.S. No. 3	5	32,404	2	15,921	1	4,100
	Not Inspected	--	--	1	3,971	1	25,365
	All lots	565	6,340,125	600	7,571,705	492	5,978,432
Soft Red Winter Wheat	U.S. No. 1	1	1,562	--	--	1	4,094
	U.S. No. 2	268	2,552,189	405	5,754,081	309	4,542,990
	U.S. No. 3	9	97,797	6	40,641	8	61,375
	Not inspected	1	5,500	--	--	--	--
	All lots	279	2,657,048	411	5,794,722	318	4,608,459
Durum Wheat	U.S. No. 1	69	644,971	61	639,101	42	389,552
	U.S. No. 2	40	257,527	39	387,605	20	172,864
	U.S. No. 3	6	90,256	1	17,931	5	17,184
	U.S. No. 4	1	5,000	--	--	3	7,903
	U.S. Sample Grade	--	--	2	3,412	--	--
	All lots	116	997,754	103	1,048,049	70	587,503
Soft White Wheat	U.S. No. 1	145	640,925	144	754,196	126	701,876
	U.S. No. 2	215	4,145,569	210	4,042,509	151	2,660,816
	U.S. No. 3	--	--	--	--	1	7,875
	All lots	360	4,786,494	354	4,796,705	278	3,370,567
Hard White Wheat	U.S. No. 1	1	10,426	6	33,500	5	21,107
	U.S. No. 2	1	9,300	--	--	4	90,309
	U.S. No. 4	--	--	--	--	3	18,281
	All lots	2	19,726	6	33,500	12	129,697

-- = No lots reported in this category.

continued

Table 1. U.S. Wheat Exports: Number of lots and quantity exported by class and grade, 2006-2008, continued

Class	Grade	2006		2007		2008	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Mixed Wheat	U.S. No 2	--	--	--	--	6	24,294
	All lots	--	--	--	--	6	24,294
All Classes	U.S. No. 1	412	2,850,486	420	3,460,945	324	2,543,952
	U.S. No. 2	1,429	19,124,703	1,764	27,159,219	1,566	25,269,883
	U.S. No. 3	20	220,457	10	77,243	23	185,310
	U.S. No. 4	1	5,000	--	--	6	26,184
	U.S. Sample Grade	1	5,500	2	3,412	--	--
	Not Inspected	--	--	2	29,107	3	46,784
	All lots	1,863	22,206,146	2,198	30,729,926	1,922	28,072,113

-- = No lots reported in this category.

Table 2. Summary of export Hard Red Winter wheat quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	75	62.4	60.3	64.0	79	62.4	60.2	63.9	65	62.0	60.5	63.7
	U.S.No. 2	58.0	466	61.2	58.7	64.0	643	61.0	58.0	64.6	671	60.7	58.2	64.0
	U.S.No. 3		--	--	--	--	1	59.0	59.0	59.0	8	59.1	58.2	61.2
	All lots	N/A	541	61.3	58.7	64.0	723	61.1	58.0	64.6	744	60.7	58.2	64.0
Test Weight (kg/hl)	U.S.No. 1	N/A	75	82.1	79.3	84.1	79	82.0	79.2	84.0	65	81.5	79.6	83.7
	U.S.No. 2	N/A	466	80.5	77.3	84.1	643	80.3	76.4	84.9	671	79.8	76.6	84.1
	U.S.No. 3	N/A	--	--	--	--	1	77.6	77.6	77.6	8	77.8	76.6	80.5
	All lots	N/A	541	80.6	77.3	84.1	723	80.3	76.4	84.9	744	79.8	76.6	84.1
Moisture	U.S.No. 1	N/A	75	9.7	8.3	12.2	79	9.4	8.2	11.6	65	9.9	8.6	11.8
	U.S.No. 2	N/A	465	10.9	8.3	12.4	643	11.2	8.4	12.9	671	11.4	8.8	12.8
	U.S.No. 3	N/A	--	--	--	--	1	12.3	12.3	12.3	8	12.0	11.8	12.5
	All lots	N/A	540	10.8	8.3	12.4	723	11.2	8.2	12.9	744	11.4	8.6	12.8
Heat-damaged Kernels	U.S.No. 1	0.2	75	0.0	0.0	0.1	79	0.0	0.0	0.0	65	0.0	0.0	0.1
	U.S.No. 2	0.2	466	0.0	0.0	0.2	643	0.0	0.0	0.2	671	0.0	0.0	0.2
	U.S.No. 3	0.5	--	--	--	--	1	0.0	0.0	0.0	8	0.0	0.0	0.0
	All lots	N/A	541	0.0	0.0	0.2	723	0.0	0.0	0.2	744	0.0	0.0	0.2
Damaged Kernels (Total)	U.S.No. 1	2.0	75	0.2	0.0	1.4	79	0.1	0.0	0.4	65	0.2	0.0	0.7
	U.S.No. 2	4.0	466	0.8	0.0	2.3	643	1.0	0.0	3.0	671	1.2	0.0	3.2
	U.S.No. 3	7.0	--	--	--	--	1	1.1	1.1	1.1	8	2.5	1.5	3.8
	All lots	N/A	541	0.8	0.0	2.3	723	0.9	0.0	3.0	744	1.1	0.0	3.8
Foreign Material	U.S.No. 1	0.4	75	0.1	0.0	0.3	79	0.1	0.0	0.3	65	0.1	0.0	0.2
	U.S.No. 2	0.7	466	0.2	0.0	0.6	643	0.2	0.0	0.7	671	0.2	0.0	0.7
	U.S.No. 3	1.3	--	--	--	--	1	0.2	0.2	0.2	8	0.4	0.2	1.0
	All lots	N/A	541	0.2	0.0	0.6	723	0.2	0.0	0.7	744	0.2	0.0	1.0
Shrunken and Broken	U.S.No. 1	3.0	75	1.4	0.2	2.3	79	1.4	0.5	2.6	65	1.6	0.7	2.2
	U.S.No. 2	5.0	466	1.6	0.0	2.5	643	1.6	0.9	2.6	671	1.6	0.5	2.9
	U.S.No. 3	8.0	--	--	--	--	1	1.8	1.8	1.8	8	2.2	1.7	2.7
	All lots	N/A	541	1.6	0.0	2.5	723	1.6	0.5	2.6	744	1.6	0.5	2.9
Total Defects¹	U.S.No. 1	3.0	75	1.7	0.4	2.7	79	1.6	0.6	2.7	65	1.8	0.9	2.8
	U.S.No. 2	5.0	466	2.7	0.0	4.3	643	2.7	1.0	4.9	671	2.9	0.8	5.0
	U.S.No. 3	8.0	--	--	--	--	1	3.1	3.1	3.1	8	5.2	3.9	6.5
	All lots	N/A	541	2.6	0.0	4.3	723	2.7	0.6	4.9	744	2.9	0.8	6.5

continued

Table 2. Summary of export Hard Red Winter wheat quality, 2006-2008--Continued

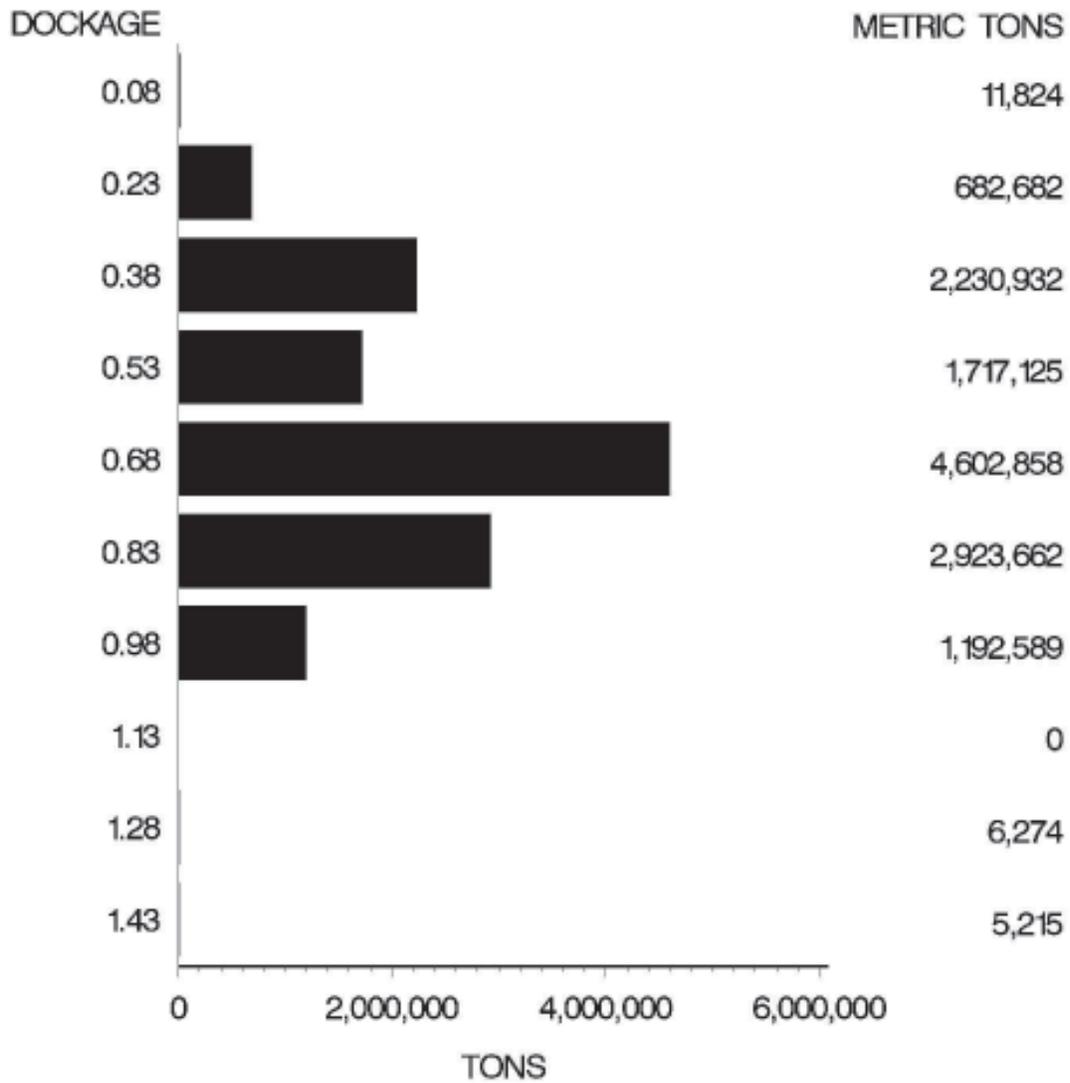
Factor	Grade	Grade Limit	2006			2007			2008					
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Dockage	U.S.No. 1	N/A	75	0.3	0.1	0.5	79	0.3	0.1	0.3	65	0.3	0.2	0.3
	U.S.No. 2	N/A	464	0.6	0.1	1.3	643	0.6	0.1	1.0	671	0.6	0.1	1.4
	U.S.No. 3	N/A	--	--	--	--	1	0.6	0.6	0.6	8	0.8	0.6	0.9
	All lots	N/A	539	0.6	0.1	1.3	723	0.6	0.1	1.0	744	0.6	0.1	1.4
Wheat of Other Classes	U.S.No. 1	3.0	75	1.0	0.0	2.1	79	0.7	0.0	2.6	65	0.9	0.0	2.3
	U.S.No. 2	5.0	466	1.4	0.0	4.2	643	1.3	0.0	4.8	671	1.7	0.0	4.7
	U.S.No. 3	10.0	--	--	--	--	1	0.6	0.6	0.6	8	2.0	0.6	3.4
	All lots	N/A	541	1.4	0.0	4.2	723	1.3	0.0	4.8	744	1.6	0.0	4.7
Contrasting Classes	U.S.No. 1	1.0	75	0.3	0.0	1.0	79	0.3	0.0	0.9	65	0.3	0.0	0.9
	U.S.No. 2	2.0	466	0.4	0.0	1.8	643	0.1	0.0	1.3	671	0.1	0.0	1.6
	U.S.No. 3	3.0	--	--	--	--	1	0.0	0.0	0.0	8	0.0	0.0	0.0
	All lots	N/A	541	0.4	0.0	1.8	723	0.1	0.0	1.3	744	0.1	0.0	1.6
Protein (as is basis)	U.S.No. 1	N/A	75	12.7	11.7	13.5	79	12.8	11.7	13.8	65	12.4	11.5	14.1
	U.S.No. 2	N/A	455	12.4	10.9	15.3	637	12.2	10.2	15.4	668	11.9	10.2	13.6
	U.S.No. 3	N/A	--	--	--	--	1	11.7	11.7	11.7	8	11.7	11.4	11.9
	All lots	N/A	530	12.4	10.9	15.3	717	12.3	10.2	15.4	741	11.9	10.2	14.1
Protein (12% moisture)	U.S.No. 1	N/A	75	12.4	11.5	13.5	79	12.4	11.5	13.4	65	12.2	11.5	13.7
	U.S.No. 2	N/A	456	12.2	10.8	15.1	637	12.1	9.9	15.1	668	11.8	10.2	13.3
	U.S.No. 3	N/A	--	--	--	--	1	11.7	11.7	11.7	8	11.7	11.4	11.9
	All lots	N/A	531	12.2	10.8	15.1	717	2.2	9.9	15.1	741	11.8	10.2	13.7

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, 2008
 DISTRIBUTION FOR DOCKAGE – ALL GRADES
HRW



U.S. WHEAT EXPORTED, 2008
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
HRW

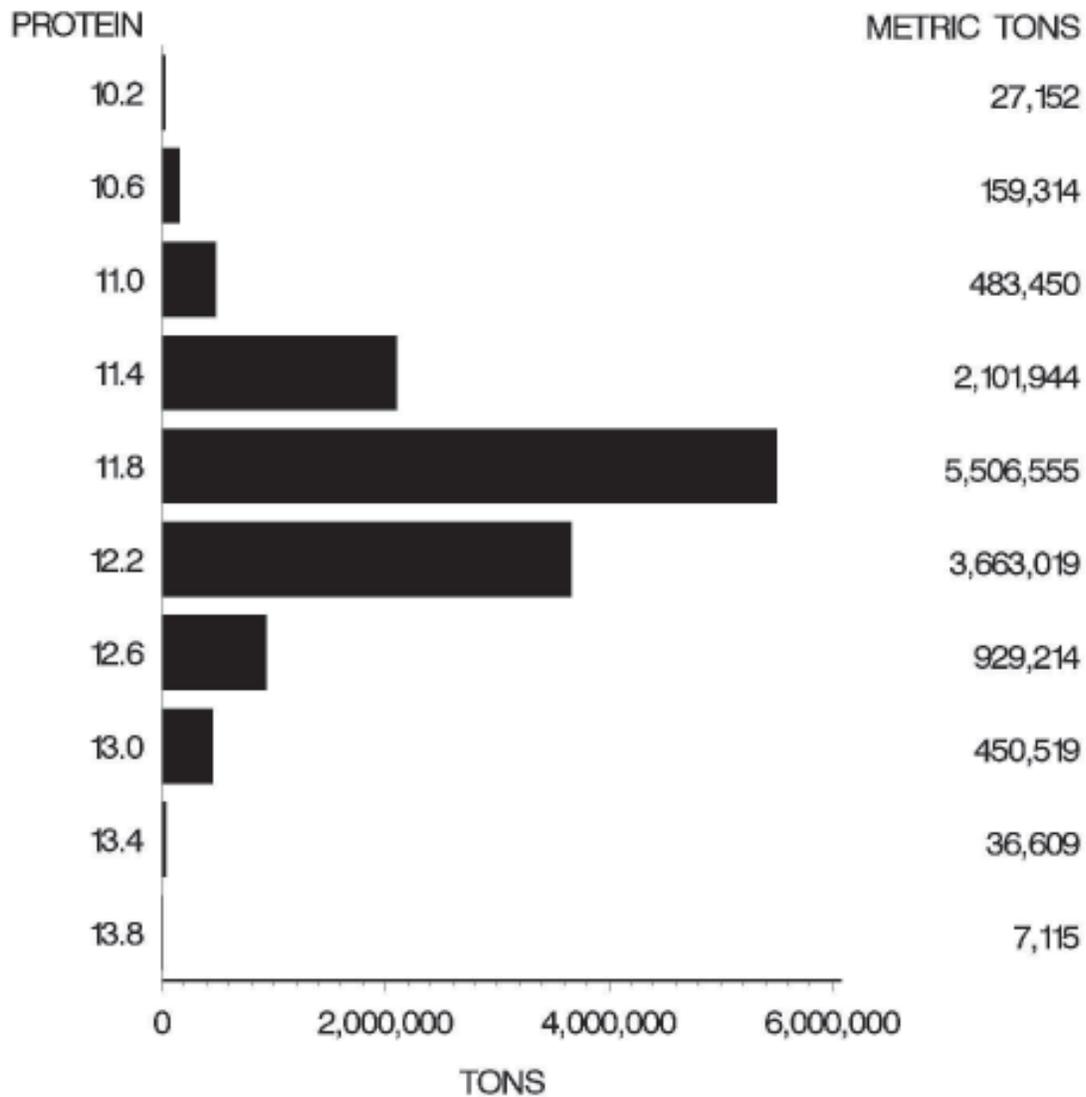


Table 3. Summary of export Hard Red Spring wheat quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	119	61.0	59.8	63.2	130	61.2	59.3	63.3	85	61.6	59.9	63.5
	U.S.No. 2	57.0	439	61.1	58.5	63.0	467	61.4	58.5	63.0	405	61.7	59.1	63.8
	U.S.No. 3	55.0	5	60.4	59.8	60.8	2	61.6	61.3	61.9	1	61.4	61.4	61.4
	All lots	N/A	563	61.1	58.5	63.2	599	61.3	58.5	63.3	491	61.7	59.1	63.8
Test Weight (kg/hl)	U.S.No. 1	N/A	119	80.3	78.6	83.1	130	80.5	78.1	83.1	85	81.1	78.8	83.4
	U.S.No. 2	N/A	439	80.4	77.1	82.9	467	80.7	77.0	82.8	405	81.1	77.8	83.8
	U.S.No. 3	N/A	5	79.5	78.7	80.0	2	81.0	80.6	81.4	1	80.7	80.7	80.7
	All lots	N/A	563	80.4	77.1	83.1	599	80.7	77.0	83.1	491	81.1	77.8	83.8
Moisture	U.S.No. 1	N/A	119	11.6	8.9	14.0	130	11.5	8.2	13.5	85	11.4	8.9	13.1
	U.S.No. 2	N/A	439	12.2	8.9	13.8	467	12.0	8.8	13.5	405	12.1	9.0	13.5
	U.S.No. 3	N/A	5	13.5	13.3	13.9	2	13.0	12.9	13.0	1	12.8	12.8	12.8
	All lots	N/A	563	12.1	8.9	14.0	599	11.9	8.2	13.5	491	12.0	8.9	13.5
Heat-damaged Kernels	U.S.No. 1	0.2	119	0.0	0.0	0.1	130	0.0	0.0	0.0	85	0.0	0.0	0.1
	U.S.No. 2	0.2	439	0.0	0.0	0.2	467	0.0	0.0	0.2	405	0.0	0.0	0.1
	U.S.No. 3	0.5	5	0.0	0.0	0.0	2	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	563	0.0	0.0	0.2	599	0.0	0.0	0.2	491	0.0	0.0	0.1
Damaged Kernels (Total)	U.S.No. 1	2.0	119	0.7	0.0	1.9	130	0.3	0.0	1.1	85	0.3	0.0	1.7
	U.S.No. 2	4.0	439	1.2	0.0	3.7	467	0.7	0.0	2.6	405	0.6	0.0	3.4
	U.S.No. 3	7.0	5	1.4	0.9	2.9	2	1.6	0.5	2.6	1	4.5	4.5	4.5
	All lots	N/A	563	1.1	0.0	3.7	599	0.6	0.0	2.6	491	0.6	0.0	4.5
Foreign Material	U.S.No. 1	0.4	119	0.1	0.0	0.4	130	0.1	0.0	0.3	85	0.1	0.0	0.3
	U.S.No. 2	0.7	439	0.1	0.0	0.6	467	0.1	0.0	0.5	405	0.1	0.0	0.5
	U.S.No. 3	1.3	5	0.2	0.1	0.3	2	0.2	0.1	0.2	1	0.1	0.1	0.1
	All lots	N/A	563	0.1	0.0	0.6	599	0.1	0.0	0.5	491	0.1	0.0	0.5
Shrunken and Broken	U.S.No. 1	3.0	119	1.5	0.6	2.4	130	1.6	0.6	2.7	85	1.4	0.4	2.1
	U.S.No. 2	5.0	439	1.4	0.4	2.9	467	1.5	0.7	3.0	405	1.2	0.5	2.2
	U.S.No. 3	8.0	5	0.8	0.7	1.0	2	1.3	1.1	1.5	1	1.4	1.4	1.4
	All lots	N/A	563	1.4	0.4	2.9	599	1.5	0.6	3.0	491	1.2	0.4	2.2
Total Defects¹	U.S.No. 1	3.0	119	2.3	1.1	3.0	130	2.1	1.1	3.0	85	1.8	0.5	2.9
	U.S.No. 2	5.0	439	2.8	1.2	5.0	467	2.3	1.2	4.3	405	1.9	0.7	5.0
	U.S.No. 3	8.0	5	2.3	1.8	4.0	2	3.1	2.1	3.9	1	6.0	6.0	6.0
	All lots	N/A	563	2.7	1.1	5.0	599	2.3	1.1	4.3	491	1.9	0.5	6.0

continued

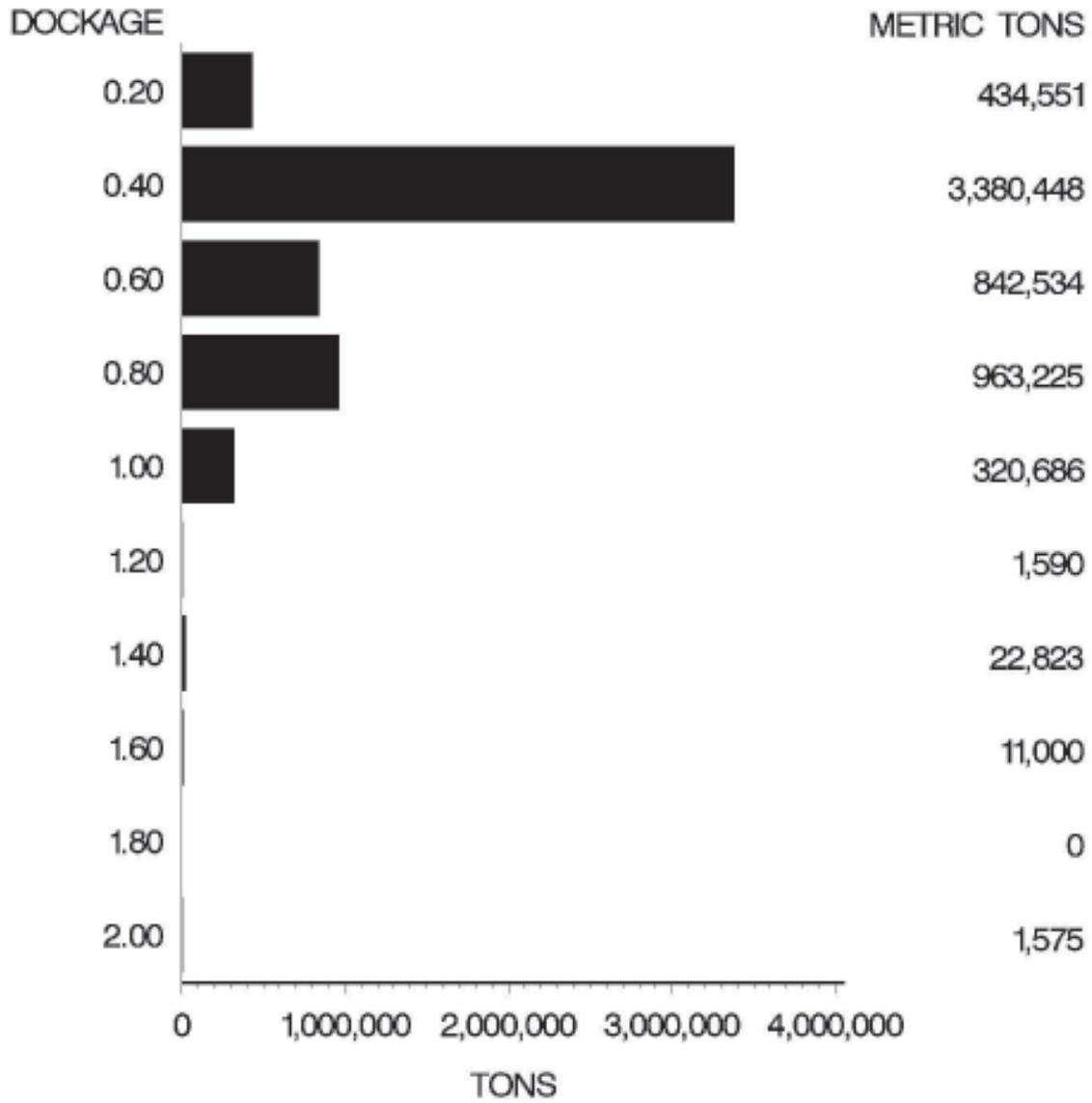
Table 3. Summary of export Hard Red Spring wheat quality, 2006-2008--Continued

Factor	Grade	Grade Limit	2006			2007			2008					
			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	121	0.3	0.1	1.2	129	0.3	0.2	0.9	85	0.3	0.2	0.8
	U.S.No. 2	N/A	439	0.4	0.1	1.0	467	0.5	0.1	1.0	405	0.5	0.2	1.9
	U.S.No. 3	N/A	5	0.3	0.3	0.6	2	0.4	0.3	0.5	1	0.5	0.5	0.5
	All lots	N/A	565	0.4	0.1	1.2	598	0.4	0.1	1.0	491	0.4	0.2	1.9
Wheat of Other Classes	U.S.No. 1	3.0	119	0.8	0.0	2.7	130	0.7	0.0	2.0	85	0.8	0.0	2.7
	U.S.No. 2	5.0	439	1.2	0.0	4.8	467	1.0	0.0	4.3	405	1.0	0.0	4.7
	U.S.No. 3	10.0	5	0.5	0.0	1.2	2	0.9	0.0	1.7	1	4.1	4.1	4.1
	All lots	N/A	563	1.2	0.0	4.8	599	0.9	0.0	4.3	491	1.0	0.0	4.7
Contrasting Classes	U.S.No. 1	1.0	119	0.3	0.0	1.0	130	0.2	0.0	0.9	85	0.2	0.0	0.8
	U.S.No. 2	2.0	439	0.3	0.0	1.8	467	0.2	0.0	1.9	405	0.2	0.0	1.4
	U.S.No. 3	3.0	5	0.0	0.0	0.2	2	0.3	0.0	0.5	1	0.1	0.1	0.1
	All lots	N/A	563	0.3	0.0	1.8	599	0.2	0.0	1.9	491	0.2	0.0	1.4
Protein (as is basis)	U.S.No. 1	N/A	118	14.4	12.9	15.4	128	14.8	13.7	16.9	85	14.4	13.9	15.2
	U.S.No. 2	N/A	438	14.1	12.2	15.9	463	14.4	13.7	16.3	405	14.1	12.4	15.4
	U.S.No. 3	N/A	4	12.8	12.3	14.1	1	14.0	14.0	14.0	1	15.2	15.2	15.2
	All lots	N/A	560	14.1	12.2	15.9	592	14.5	13.7	16.9	491	14.1	12.4	15.4
Protein (12% moisture)	U.S.No. 1	N/A	118	14.3	13.2	15.3	128	14.7	13.8	16.7	85	14.3	14.0	15.2
	U.S.No. 2	N/A	438	14.1	12.5	15.6	463	14.4	13.8	16.3	405	14.1	12.5	15.5
	U.S.No. 3	N/A	4	13.1	12.5	14.3	1	14.2	14.2	14.2	1	15.3	15.3	15.3
	All lots	N/A	560	14.2	12.5	15.6	592	14.5	13.8	16.7	491	14.1	12.5	15.5

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, 2008
DISTRIBUTION FOR DOCKAGE – ALL GRADES
HRS



U.S. WHEAT EXPORTED, 2008
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
HRS

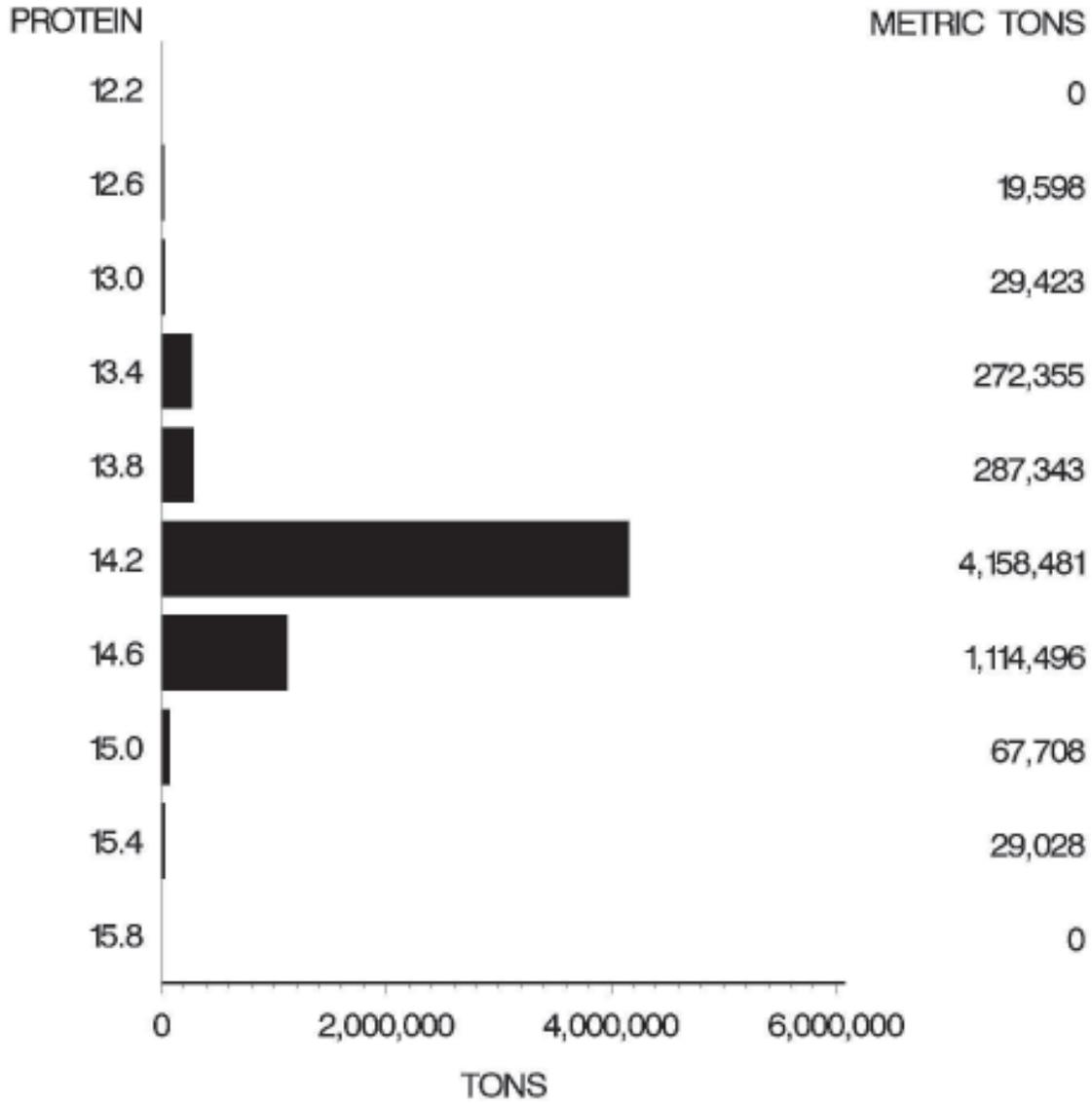


Table 4. Summary of export Soft Red Winter wheat quality, factor averages by grade, 2006-2008

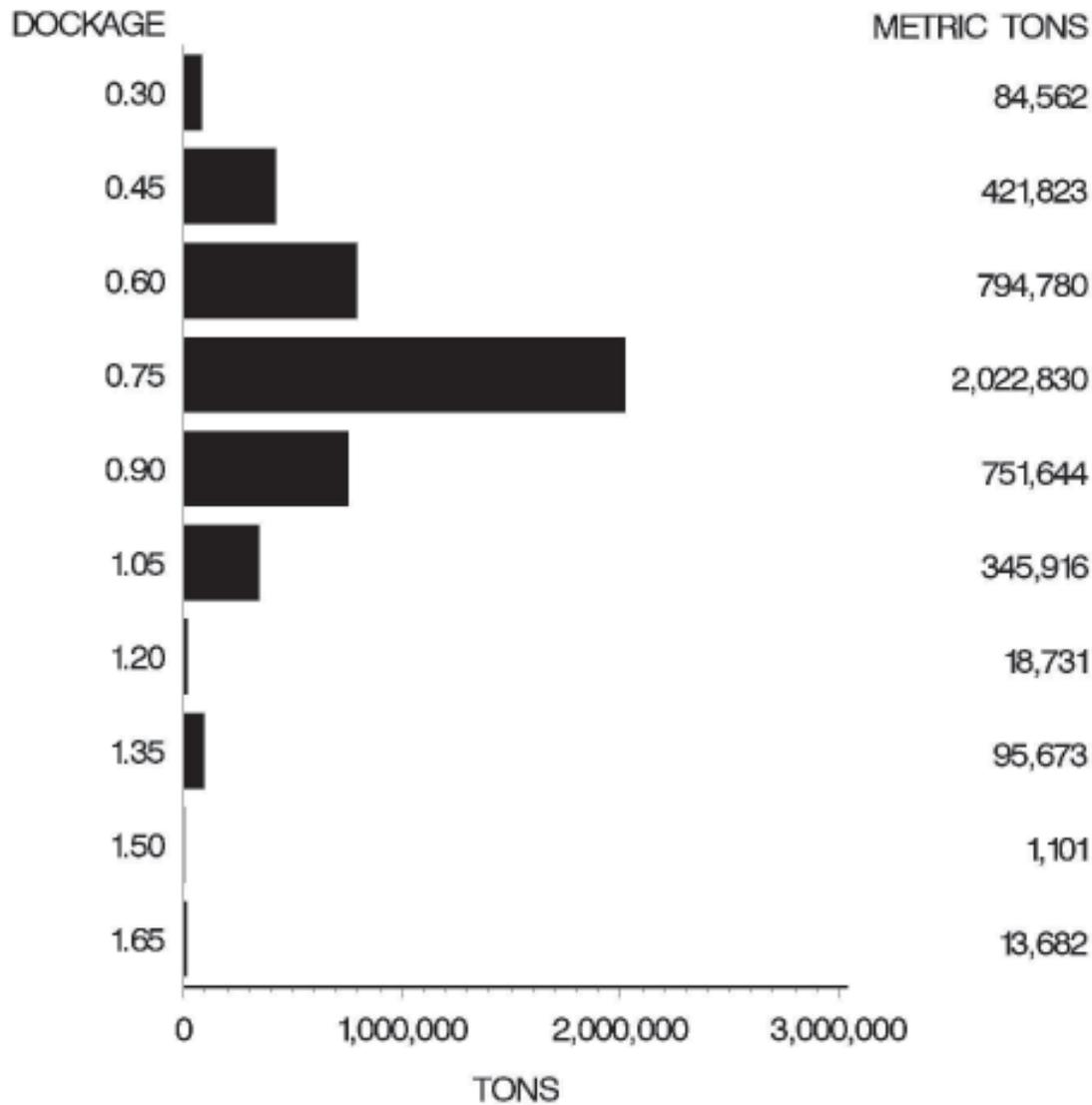
Factor	Grade	Grade Limit	2006				2007				2008			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S. No. 1	60.0	1	60.2	60.2	60.2	--	--	--	--	1	60.1	60.1	60.1
	U.S. No. 2	58.0	268	59.8	58.0	62.4	405	59.9	58.0	61.9	309	59.8	0.0	62.9
	U.S. No. 3	56.0	9	60.2	59.4	62.2	6	58.8	57.5	60.2	8	59.7	58.7	60.1
	All lots	N/A	278	59.8	58.0	62.4	411	59.9	57.5	61.9	318	59.8	0.0	62.9
Test Weight (kg/hl)	U.S. No. 1	N/A	1	79.2	79.2	79.2	--	--	--	--	1	79.1	79.1	79.1
	U.S. No. 2	N/A	268	78.7	76.4	82.1	405	78.8	76.4	81.4	309	78.7	1.4	82.7
	U.S. No. 3	N/A	9	79.2	78.2	81.7	6	77.4	75.7	79.2	8	78.6	77.3	79.1
	All lots	N/A	278	78.7	76.4	82.1	411	78.8	75.7	81.4	318	78.7	1.4	82.7
Moisture	U.S. No. 1	N/A	1	13.4	13.4	13.4	--	--	--	--	1	12.7	12.7	12.7
	U.S. No. 2	N/A	268	12.9	12.1	13.5	405	12.8	11.8	13.7	308	12.6	11.1	13.5
	U.S. No. 3	N/A	9	12.8	12.7	13.0	6	12.6	11.7	13.0	8	12.3	12.0	12.9
	All lots	N/A	278	12.9	12.1	13.5	411	12.8	11.7	13.7	317	12.6	11.1	13.5
Heat-damaged Kernels	U.S. No. 1	0.2	1	0.0	0.0	0.0	--	--	--	--	1	0.0	0.0	0.0
	U.S. No. 2	0.2	268	0.0	0.0	0.2	405	0.0	0.0	0.2	309	0.0	0.0	0.2
	U.S. No. 3	0.5	9	0.0	0.0	0.1	6	0.0	0.0	0.1	8	0.0	0.0	0.0
	All lots	N/A	278	0.0	0.0	0.2	411	0.0	0.0	0.2	318	0.0	0.0	0.2
Damaged Kernels (Total)	U.S. No. 1	2.0	1	0.5	0.5	0.5	--	--	--	--	1	0.9	0.9	0.9
	U.S. No. 2	4.0	268	2.1	0.4	4.0	405	1.8	0.3	3.8	309	1.4	0.0	3.7
	U.S. No. 3	7.0	9	4.9	1.4	6.3	6	2.4	1.0	3.7	8	2.0	0.5	3.7
	All lots	N/A	278	2.2	0.4	6.3	411	1.8	0.3	3.8	318	1.4	0.0	3.7
Foreign Material	U.S. No. 1	0.4	1	0.1	0.1	0.1	--	--	--	--	1	0.3	0.3	0.3
	U.S. No. 2	0.7	268	0.1	0.0	0.5	405	0.1	0.0	0.7	309	0.1	0.0	0.7
	U.S. No. 3	1.3	9	0.3	0.2	0.4	6	0.1	0.0	0.2	8	0.3	0.1	0.4
	All lots	N/A	278	0.1	0.0	0.5	411	0.1	0.0	0.7	318	0.1	0.0	0.7
Shrunken and Broken	U.S. No. 1	3.0	1	0.5	0.5	0.5	--	--	--	--	1	0.6	0.6	0.6
	U.S. No. 2	5.0	268	0.7	0.3	1.4	405	0.7	0.3	1.7	309	0.7	0.0	1.5
	U.S. No. 3	8.0	9	0.8	0.6	0.9	6	1.0	0.4	1.3	8	0.8	0.4	1.1
	All lots	N/A	278	0.7	0.3	1.4	411	0.7	0.3	1.7	318	0.7	0.0	1.5
Total Defects¹	U.S. No. 1	3.0	1	1.1	1.1	1.1	--	--	--	--	1	1.8	1.8	1.8
	U.S. No. 2	5.0	268	2.9	0.9	5.0	405	2.6	0.9	4.6	309	2.2	0.0	4.5
	U.S. No. 3	8.0	9	5.9	2.2	7.3	6	3.5	2.1	5.1	8	3.1	1.1	5.2
	All lots	N/A	278	3.0	0.9	7.3	411	2.6	0.9	5.1	318	2.2	0.0	5.2

continued

Table 4. Summary of export Soft Red Winter wheat quality, factor averages by grade, 2006-2008-Continued

Factor	Grade	Grade Limit	2006				2007				2008			
			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	0.8	0.8	0.8	--	--	--	--	1	0.7	0.7	0.7
	U.S.No. 2	N/A	267	0.7	0.4	1.4	403	0.7	0.3	1.9	307	0.7	0.3	1.7
	U.S.No. 3	N/A	9	0.8	0.7	0.9	6	0.9	0.5	1.3	8	1.1	0.5	1.4
	All lots	N/A	277	0.8	0.4	1.4	409	0.7	0.3	1.9	316	0.7	0.3	1.7
Wheat of Other Classes	U.S.No. 1	3.0	1	0.0	0.0	0.0	--	--	--	--	1	0.0	0.0	0.0
	U.S.No. 2	5.0	268	0.3	0.0	3.8	405	0.4	0.0	4.3	309	0.4	0.0	4.6
	U.S.No. 3	10.0	9	0.1	0.0	0.3	6	0.3	0.0	0.5	8	0.5	0.0	1.0
	All lots	N/A	278	0.3	0.0	3.8	411	0.4	0.0	4.3	318	0.4	0.0	4.6
Contrasting Classes	U.S.No. 1	1.0	1	0.0	0.0	0.0	--	--	--	--	1	0.0	0.0	0.0
	U.S.No. 2	2.0	268	0.0	0.0	1.6	405	0.0	0.0	0.7	309	0.0	0.0	0.3
	U.S.No. 3	3.0	9	0.0	0.0	0.0	6	0.0	0.0	0.0	8	0.0	0.0	0.0
	All lots	N/A	278	0.0	0.0	1.6	411	0.0	0.0	0.7	318	0.0	0.0	0.3
Protein (as is basis)	U.S.No. 1	N/A	1	9.9	9.9	9.9	--	--	--	--	1	9.9	9.9	9.9
	U.S.No. 2	N/A	245	9.8	8.9	11.6	366	10.2	8.6	11.4	283	10.0	8.9	11.8
	U.S.No. 3	N/A	9	9.9	9.5	10.1	2	10.6	10.2	11.1	3	10.4	10.2	10.6
	All lots	N/A	255	9.8	8.9	11.6	368	10.2	8.6	11.4	287	10.0	8.9	11.8
Protein (12% moisture)	U.S.No. 1	N/A	1	10.1	10.1	10.1	--	--	--	--	1	10.0	10.0	10.0
	U.S.No. 2	N/A	245	9.9	9.1	11.7	366	10.3	8.7	11.5	283	10.1	9.1	11.7
	U.S.No. 3	N/A	9	10.0	9.6	10.2	2	10.7	10.3	11.2	3	10.5	10.2	10.6
	All lots	N/A	255	9.9	9.1	11.7	368	10.3	8.7	11.5	287	10.1	9.1	11.7

U.S. WHEAT EXPORTED, 2008
DISTRIBUTION FOR DOCKAGE — ALL GRADES
SRW



U.S. WHEAT EXPORTED, 2008
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
SRW

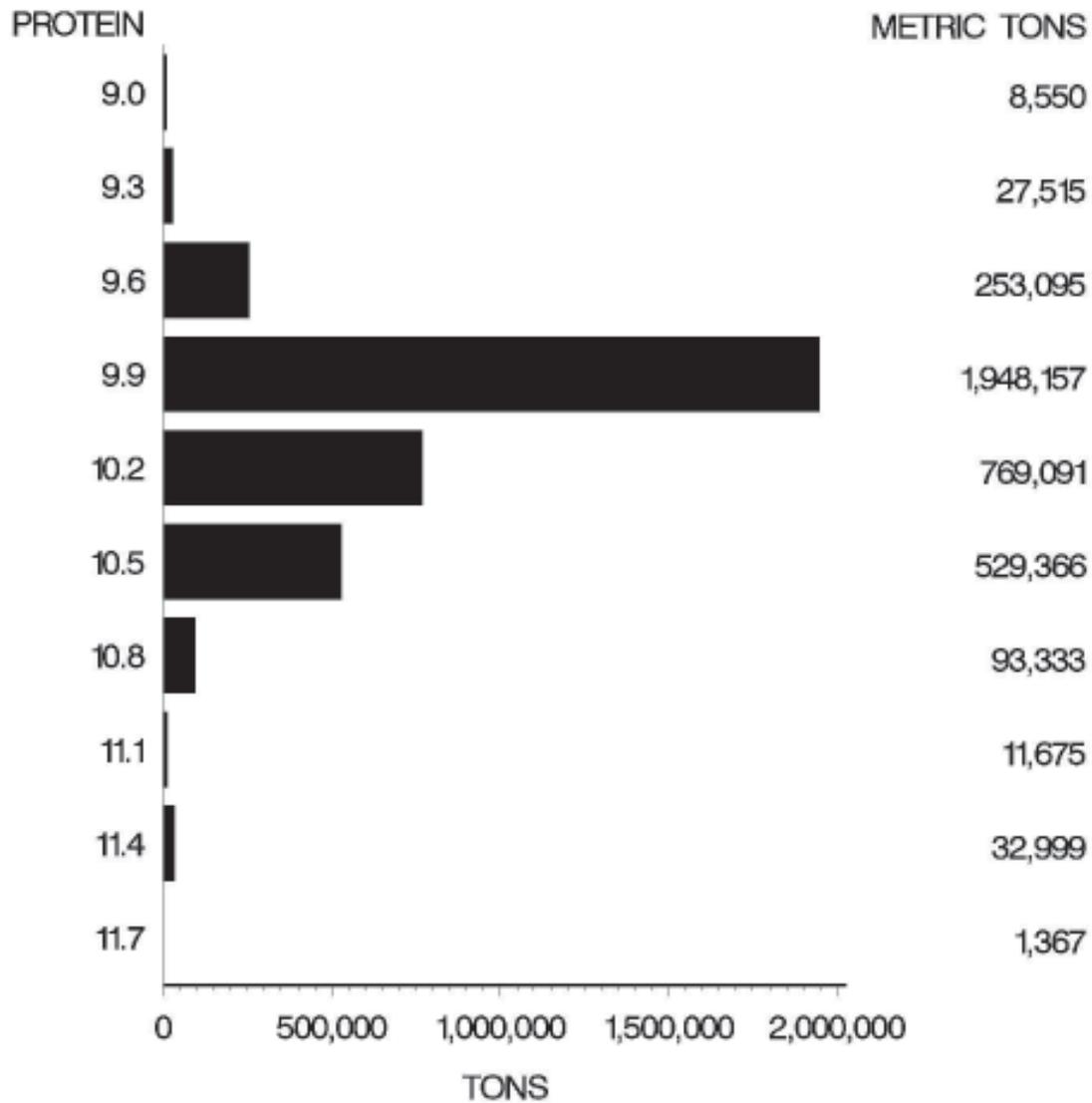


Table 5. Summary of export Durum wheat quality, factor averages by grade, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	68	61.8	60.2	64.1	61	61.9	60.7	64.5	42	62.2	60.1	64.3
	U.S.No. 2	58.0	40	61.2	60.1	63.8	39	60.9	59.7	63.6	20	60.9	59.7	63.4
	U.S.No. 3	56.0	6	60.2	59.3	60.7	1	61.1	61.1	61.1	5	61.4	60.2	63.3
	U.S.No. 4	54.0	1	64.0	64.0	64.0	--	--	--	--	3	62.2	60.6	62.7
	U.S. Sample Grade	N/A	--	--	--	--	2	63.2	63.1	63.3	--	--	--	--
	All lots	N/A	115	61.5	59.3	64.1	103	61.5	59.7	64.5	70	61.8	59.7	64.3
Test Weight (kg/hl)	U.S.No. 1	N/A	68	80.5	78.4	83.5	61	80.7	79.0	84.0	42	81.0	78.3	83.7
	U.S.No. 2	N/A	40	79.7	78.3	83.0	39	79.3	77.7	82.8	20	79.3	77.8	82.5
	U.S.No. 3	N/A	6	78.4	77.2	79.1	1	79.6	79.6	79.6	5	80.0	78.4	82.4
	U.S.No. 4	N/A	1	83.4	83.4	83.4	--	--	--	--	3	81.0	78.9	81.6
	U.S. Sample Grade	N/A	--	--	--	--	2	82.3	82.2	82.4	--	--	--	--
	All lots	N/A	115	80.1	77.2	83.5	103	80.1	77.7	84.0	70	80.4	77.8	83.7
Moisture	U.S.No. 1	N/A	68	11.0	6.6	13.8	61	10.0	6.1	13.1	42	8.3	6.4	12.7
	U.S.No. 2	N/A	40	12.6	8.0	13.9	39	12.1	8.1	12.9	20	11.8	8.5	12.5
	U.S.No. 3	N/A	6	12.7	12.1	13.3	1	11.9	11.9	11.9	5	10.3	7.4	12.0
	U.S.No. 4	N/A	1	8.3	8.3	8.3	--	--	--	--	3	8.9	7.9	11.6
	U.S. Sample Grade	N/A	--	--	--	--	2	8.3	8.1	8.5	--	--	--	--
	All lots	N/A	115	11.6	6.6	13.9	103	10.8	6.1	13.1	70	9.4	6.4	12.7
Heat-damaged Kernels	U.S.No. 1	0.2	68	0.0	0.0	0.0	61	0.0	0.0	0.0	42	0.0	0.0	0.1
	U.S.No. 2	0.2	40	0.0	0.0	0.1	39	0.0	0.0	0.0	20	0.0	0.0	0.1
	U.S.No. 3	0.5	6	0.0	0.0	0.1	1	0.0	0.0	0.0	5	0.0	0.0	0.1
	U.S.No. 4	1.0	1	0.0	0.0	0.0	--	--	--	--	3	0.1	0.0	0.1
	U.S. Sample Grade	N/A	--	--	--	--	2	0.0	0.0	0.0	--	--	--	--
	All lots	N/A	115	0.0	0.0	0.1	103	0.0	0.0	0.0	70	0.0	0.0	0.1
Damaged Kernels (Total)	U.S.No. 1	2.0	68	1.0	0.3	1.7	61	0.8	0.2	1.3	42	0.5	0.1	1.3
	U.S.No. 2	4.0	40	1.8	0.4	2.9	39	1.7	0.4	3.6	20	1.3	0.5	2.3
	U.S.No. 3	7.0	6	4.7	3.8	5.4	1	0.8	0.8	0.8	5	0.8	0.5	2.0
	U.S.No. 4	10.0	1	0.6	0.6	0.6	--	--	--	--	3	0.9	0.6	1.8
	U.S. Sample Grade	N/A	--	--	--	--	2	0.5	0.4	0.7	--	--	--	--
	All lots	N/A	115	1.6	0.3	5.4	103	1.2	0.2	3.6	70	0.8	0.1	2.3

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

continued

Table 5. Summary of export Durum wheat quality, factor averages by grade, 2006-2008--Continued

Factor	Grade	Grade Limit	2006				2007				2008			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Foreign Material	U.S.No. 1	0.4	68	0.1	0.1	0.4	61	0.1	0.0	0.4	42	0.1	0.0	0.3
	U.S.No. 2	0.7	40	0.2	0.0	0.6	39	0.2	0.1	0.5	20	0.2	0.0	0.5
	U.S.No. 3	1.3	6	0.2	0.2	0.4	1	0.1	0.1	0.1	5	0.4	0.1	1.0
	U.S.No. 4	3.0	1	0.4	0.4	0.4	--	--	--	--	3	0.3	0.1	0.7
	U.S. Sample Grade	5.0	--	--	--	--	2	0.4	0.4	0.4	--	--	--	--
	All lots	N/A	115	0.2	0.0	0.6	103	0.2	0.0	0.5	70	0.2	0.0	1.0
Shrunken and Broken	U.S.No. 1	3.0	68	1.0	0.3	1.8	61	1.1	0.3	1.9	42	0.8	0.3	1.9
	U.S.No. 2	5.0	40	1.3	0.7	1.6	39	1.6	0.8	2.0	20	1.6	0.5	2.1
	U.S.No. 3	8.0	6	1.6	1.5	1.8	1	1.6	1.6	1.6	5	1.4	1.0	1.8
	U.S.No. 4	12.0	1	0.9	0.9	0.9	--	--	--	--	3	1.3	1.1	2.1
	U.S. Sample Grade	20.0	--	--	--	--	2	0.9	0.8	1.0	--	--	--	--
	All lots	N/A	115	1.2	0.3	1.8	103	1.3	0.3	2.0	70	1.1	0.3	2.1
Total Defects¹	U.S.No. 1	3.0	68	2.2	1.0	2.9	61	2.1	0.9	3.0	42	1.4	0.5	2.9
	U.S.No. 2	5.0	40	3.3	1.2	4.5	39	3.5	1.7	4.9	20	3.1	1.5	4.6
	U.S.No. 3	8.0	6	6.5	5.6	7.2	1	2.5	2.5	2.5	5	2.6	2.2	4.5
	U.S.No. 4	12.0	1	1.9	1.9	1.9	--	--	--	--	3	2.5	1.8	4.4
	U.S. Sample Grade	15.0	--	--	--	--	2	1.8	1.6	2.1	--	--	--	--
	All lots	N/A	115	2.9	1.0	7.2	103	2.6	0.9	4.9	70	2.0	0.5	4.6
Dockage	U.S.No. 1	N/A	69	0.5	0.1	1.0	61	0.5	0.2	1.1	42	0.5	0.3	0.7
	U.S.No. 2	N/A	40	0.5	0.1	1.0	39	0.6	0.3	0.9	20	0.6	0.3	1.0
	U.S.No. 3	N/A	6	0.6	0.4	0.7	1	0.4	0.4	0.4	5	0.6	0.5	0.9
	U.S.No. 4	N/A	1	0.9	0.9	0.9	--	--	--	--	3	0.6	0.5	1.0
	U.S. Sample Grade	N/A	--	--	--	--	2	1.1	1.1	1.2	--	--	--	--
	All lots	N/A	116	0.5	0.1	1.0	103	0.5	0.2	1.2	70	0.6	0.3	1.0

N/A = Does not apply.

-- = No lots reported in this category.

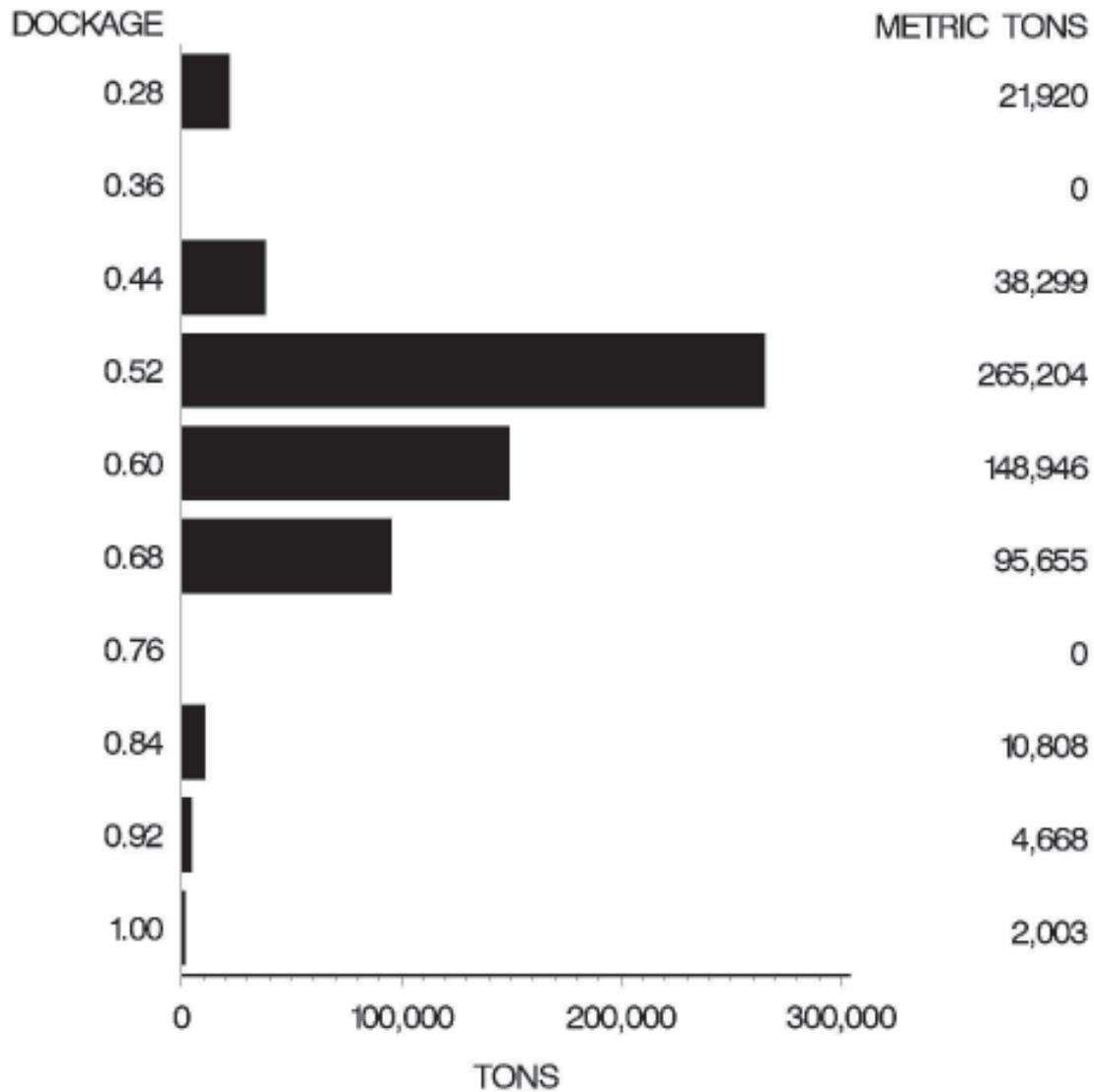
Table 5. Summary of export Durum wheat quality, factor averages by grade, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Contrasting Classes	U.S. No.1	1.0	68	0.4	0.0	0.8	61	0.4	0.0	1.0	42	0.2	0.0	0.9
	U.S. No.2	2.0	40	0.8	0.1	1.7	39	1.0	0.1	1.8	20	0.9	0.0	2.0
	U.S. No.3	3.0	6	1.5	1.0	1.9	1	1.6	1.6	1.6	5	0.8	0.0	3.0
	U.S. No.4	10.0	1	0.9	0.9	0.9	--	--	--	--	3	2.6	1.3	9.3
	U.S. Sample Grade	10.0	--	--	--	--	2	1.4	0.6	2.6	--	--	--	--
	All lots	N/A	115	0.6	0.0	1.9	103	0.6	0.0	2.6	70	0.5	0.0	9.3
Protein (as is basis)	U.S. No.1	N/A	49	13.6	11.8	15.7	53	14.3	11.0	15.8	30	13.7	11.9	15.5
	U.S. No.2	N/A	32	13.4	11.5	14.7	36	14.4	11.4	15.6	14	14.5	11.0	15.7
	U.S. No.3	N/A	6	13.4	12.9	14.0	1	14.8	14.8	14.8	4	13.6	11.3	14.6
	U.S. No.4	N/A	1	12.1	12.1	12.1	--	--	--	--	1	13.4	13.4	13.4
	U.S. Sample Grade	N/A	--	--	--	--	2	10.8	10.8	10.9	--	--	--	--
	All lots	N/A	88	13.5	11.5	15.7	92	14.4	10.8	15.8	49	14.0	11.0	15.7
Protein (12% moisture)	U.S. No.1	N/A	49	13.4	11.3	15.5	53	14.1	10.5	15.7	30	13.1	11.4	15.4
	U.S. No.2	N/A	32	13.5	11.0	14.7	36	14.5	10.9	15.6	14	14.5	10.6	15.6
	U.S. No.3	N/A	6	13.5	13.1	14.0	1	14.8	14.8	14.8	4	13.4	10.8	14.5
	U.S. No.4	N/A	1	11.6	11.6	11.6	--	--	--	--	1	12.8	12.8	12.8
	U.S. Sample Grade	N/A	--	--	--	--	2	10.4	10.4	10.4	--	--	--	--
	All lots	N/A	88	13.4	11.0	15.5	92	14.2	10.4	15.7	49	13.6	10.6	15.6

N/A = Does not apply.

-- = No lots reported in this category.

U.S. WHEAT EXPORTED, 2008
DISTRIBUTION FOR DOCKAGE – ALL GRADES
DU



U.S. WHEAT EXPORTED, 2008
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
DU

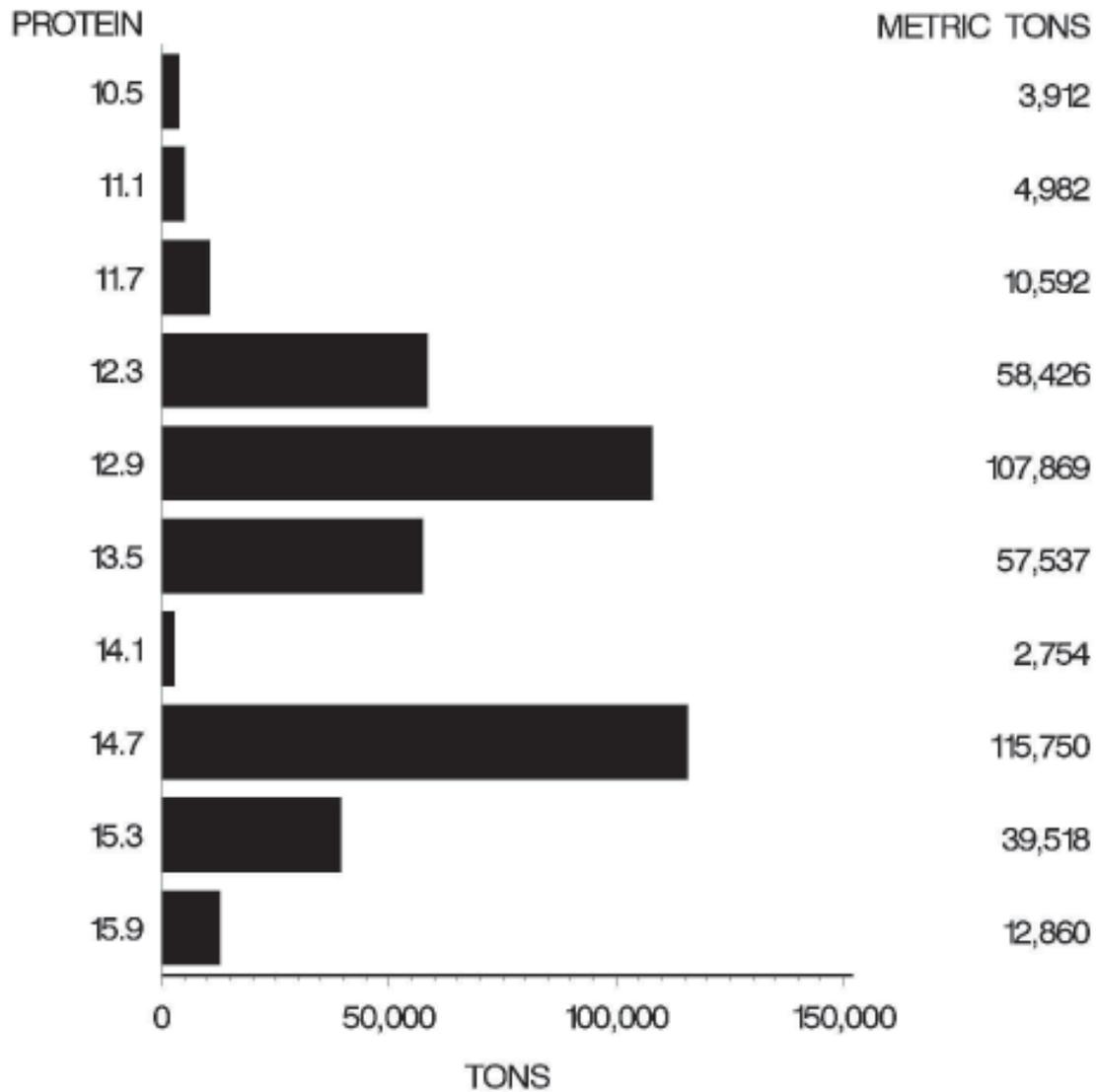


Table 6. Summary of export Soft White wheat quality, factor averages by grade, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	144	61.6	60.1	63.0	126	61.4	60.2	62.8	126	61.4	60.2	62.8
	U.S.No. 2	58.0	210	61.6	60.0	63.4	151	61.2	58.4	62.7	151	61.2	58.4	62.71
	U.S.No. 3	56.0	--	--	--	--	1	60.8	60.8	60.8	1	60.8	60.8	60.8
	All lots	N/A	354	61.6	60.0	63.4	278	61.3	58.4	62.8	278	61.3	58.4	62.8
Test Weight (kg/hl)	U.S.No. 1	N/A	144	81.0	79.1	82.8	126	80.8	79.1	82.5	126	80.8	79.1	82.5
	U.S.No. 2	N/A	210	81.0	78.9	83.4	151	80.5	76.9	82.4	151	80.5	76.9	82.4
	U.S.No. 3	N/A	--	--	--	--	1	80.0	80.0	80.0	1	80.0	80.0	80.0
	All lots	N/A	354	81.0	78.9	83.4	278	80.6	76.9	82.5	278	80.6	76.9	82.5
Moisture	U.S.No. 1	N/A	144	9.4	8.3	11.5	126	9.7	8.8	12.0	126	9.7	8.8	12.0
	U.S.No. 2	N/A	210	9.2	8.3	10.8	151	9.5	8.8	11.1	151	9.5	8.8	11.1
	U.S.No. 3	N/A	--	--	--	--	1	9.1	9.1	9.1	1	9.1	9.1	9.1
	All lots	N/A	354	9.2	8.3	11.5	278	9.6	8.8	12.0	278	9.6	8.8	12.0
Heat-damaged Kernels	U.S.No. 1	0.2	144	0.0	0.0	0.1	126	0.0	0.0	0.0	126	0.0	0.0	0.0
	U.S.No. 2	0.2	210	0.0	0.0	0.0	151	0.0	0.0	0.0	151	0.0	0.0	0.0
	U.S.No. 3	0.5	--	--	--	--	1	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	354	0.0	0.0	0.1	278	0.0	0.0	0.0	278	0.0	0.0	0.0
Damaged Kernels (Total)	U.S.No. 1	2.0	144	0.1	0.0	1.9	126	0.1	0.0	0.6	126	0.1	0.0	0.6
	U.S.No. 2	4.0	210	0.1	0.0	2.0	151	0.1	0.0	2.2	151	0.1	0.0	2.2
	U.S.No. 3	0.5	--	--	--	--	1	0.3	0.3	0.3	1	0.3	0.3	0.3
	All lots	N/A	354	0.1	0.0	2.0	278	0.1	0.0	2.2	278	0.1	0.0	2.2
Foreign Material	U.S.No. 1	0.4	144	0.1	0.0	0.4	126	0.1	0.0	0.3	126	0.1	0.0	0.3
	U.S.No. 2	0.7	210	0.1	0.0	0.4	151	0.1	0.0	0.3	151	0.1	0.0	0.3
	U.S.No. 3	1.3	--	--	--	--	1	0.1	0.1	0.1	1	0.1	0.1	0.1
	All lots	N/A	354	0.1	0.0	0.4	278	0.1	0.0	0.3	278	0.1	0.0	0.3
Shrunken and Broken	U.S.No. 1	3.0	144	1.0	0.5	1.7	126	0.9	0.4	1.4	126	0.9	0.4	1.4
	U.S.No. 2	5.0	210	1.1	0.5	1.7	151	1.0	0.5	1.4	151	1.0	0.5	1.4
	U.S.No. 3	8.0	--	--	--	--	1	0.9	0.9	0.9	1	0.9	0.9	0.9
	All lots	N/A	354	1.1	0.5	1.7	278	1.0	0.4	1.4	278	1.0	0.4	1.4
Total Defects¹	U.S.No. 1	3.0	144	1.2	0.5	2.8	126	1.1	0.4	1.6	126	1.1	0.4	1.6
	U.S.No. 2	5.0	210	1.3	0.6	3.3	151	1.2	0.8	3.2	151	1.2	0.8	3.2
	U.S.No. 3	8.0	--	--	--	--	1	1.3	1.3	1.3	1	1.3	1.3	1.3

continued

Table 6. Summary of export Soft White wheat quality, factor averages by grade, 2006-2008--Continued

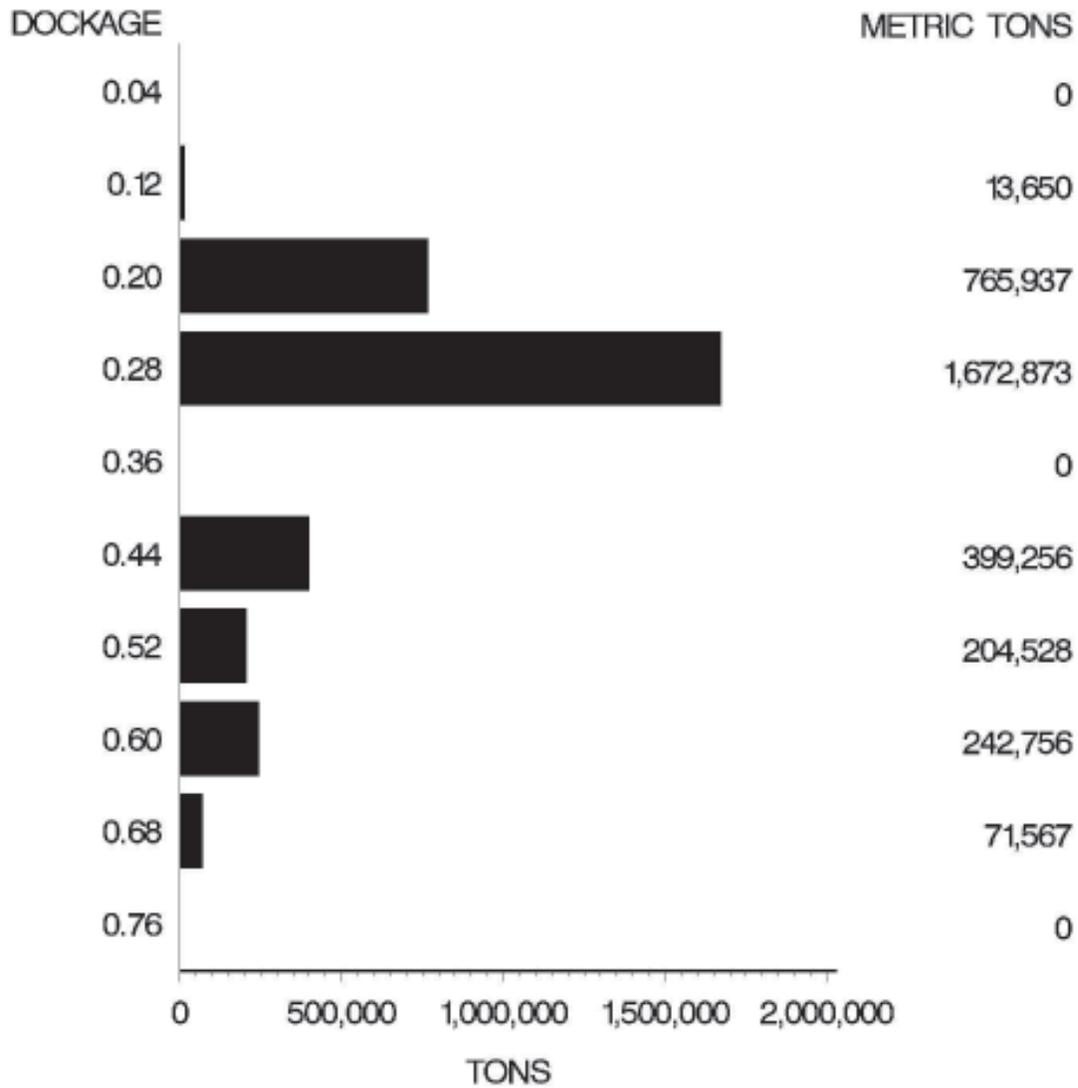
Factor	Grade	Grade Limit	2006				2007				2008			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
	All lots	N/A	354	1.3	0.5	3.3	278	1.2	0.4	3.2	278	1.2	0.4	3.2
Dockage	U.S.No. 1	N/A	144	0.3	0.2	0.3	126	0.3	0.1	0.3	126	0.3	0.1	0.3
	U.S.No. 2	N/A	210	0.3	0.1	0.8	151	0.3	0.1	0.7	151	0.3	0.1	0.7
	U.S.No. 3	N/A	--	--	--	--	1	0.3	0.3	0.3	1	0.3	0.3	0.3
	All lots	N/A	354	0.3	0.1	0.8	278	0.3	0.1	0.7	278	0.3	0.1	0.7
Wheat of Other Classes	U.S.No. 1	3.0	144	0.3	0.0	2.8	126	0.5	0.0	1.9	126	0.5	0.0	1.9
	U.S.No. 2	5.0	210	0.4	0.0	2.7	151	0.5	0.0	2.8	151	0.5	0.0	2.8
	U.S.No. 3	10.0	--	--	--	--	1	1.1	1.1	1.1	1	1.1	1.1	1.1
	All lots	N/A	354	0.4	0.0	2.8	278	0.5	0.0	2.8	278	0.5	0.0	2.8
Contrasting Classes	U.S.No. 1	1.0	144	0.3	0.0	0.9	126	0.4	0.0	1.0	126	0.4	0.0	1.0
	U.S.No. 2	2.0	210	0.3	0.0	1.3	151	0.4	0.0	1.5	151	0.4	0.0	1.5
	U.S.No. 3	3.0	--	--	--	--	1	1.1	1.1	1.1	1	1.1	1.1	1.1
	All lots	N/A	354	0.3	0.0	1.3	278	0.4	0.0	1.5	278	0.4	0.0	1.5
Protein (as is basis)	U.S.No. 1	N/A	144	10.3	8.3	10.8	126	10.4	8.3	10.9	126	10.4	8.3	10.9
	U.S.No. 2	N/A	199	10.7	8.6	27.0	148	10.8	9.4	11.9	148	10.8	9.4	11.9
	U.S.No. 3	N/A	--	--	--	--	1	11.7	11.7	11.7	1	11.7	11.7	11.7
	All lots	N/A	343	10.6	8.3	27.0	275	10.7	8.3	11.9	275	10.7	8.3	11.9
Protein (12% moisture)	U.S.No. 1	N/A	144	10.0	8.1	10.5	126	10.1	8.1	10.5	126	10.1	8.1	10.5
	U.S.No. 2	N/A	199	10.4	8.5	26.2	148	10.5	9.1	11.7	148	10.5	9.1	11.7
	U.S.No. 3	N/A	--	--	--	--	1	11.3	11.3	11.3	1	11.3	11.3	11.3
	All lots	N/A	343	10.3	8.1	26.2	275	10.4	8.1	11.7	275	10.4	8.1	11.7

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, 2008
DISTRIBUTION FOR DOCKAGE — ALL GRADES
SWH



U.S. WHEAT EXPORTED, 2008
DISTRIBUTION FOR PROTEIN (12% M) – ALL GRADES
SWH

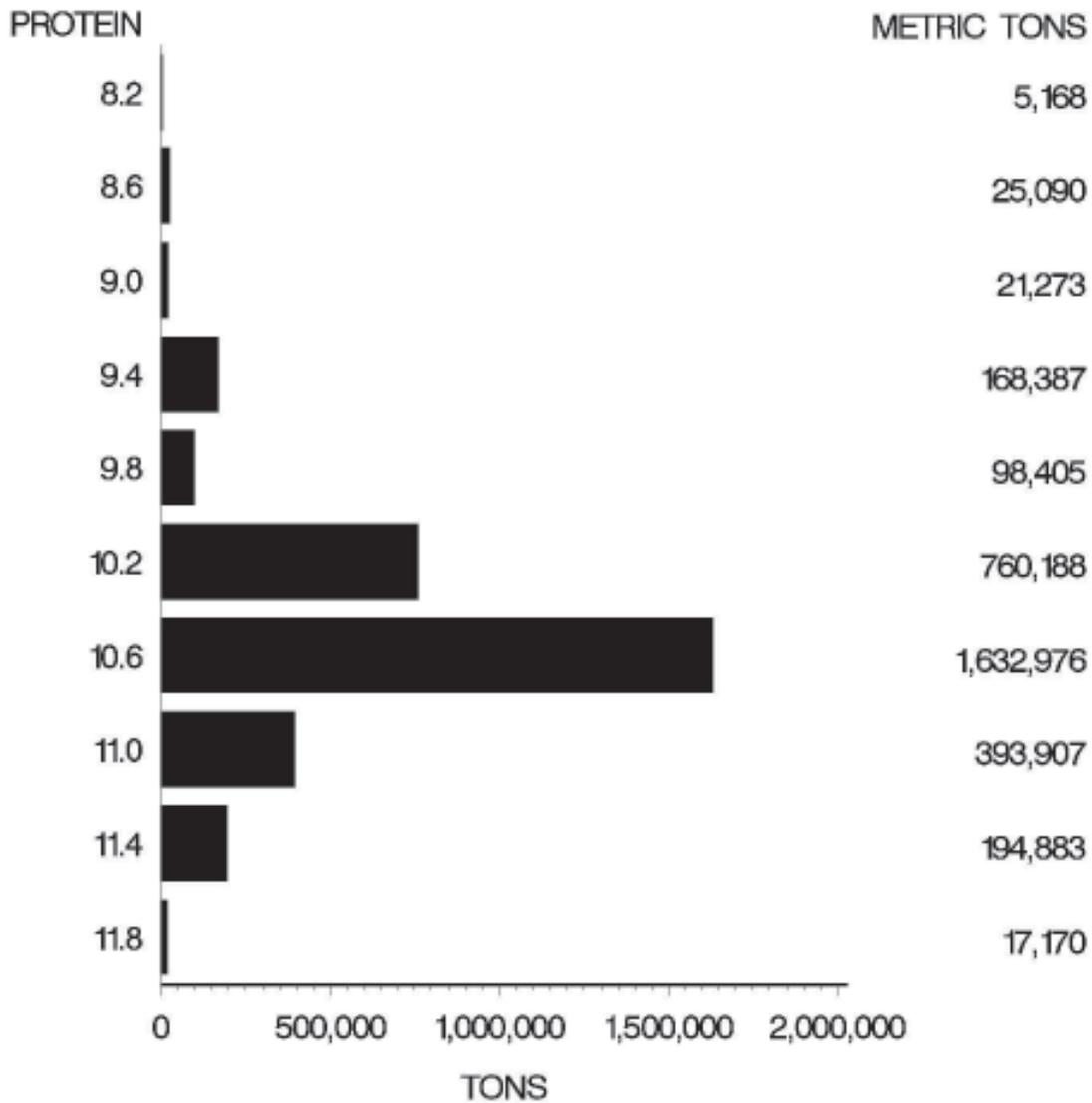


Table 7. Summary of export Hard White wheat quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	61.4	61.4	61.4	6	62.1	61.5	63.1	5	62.6	61.7	63.0
	U.S.No. 2	58.0	1	61.2	61.2	61.2	--	--	--	--	4	62.5	62.4	63.3
	U.S.No. 4	54.0	--	--	--	--	--	--	--	--	3	62.8	62.5	63.1
	All lots	N/A	2	61.3	61.2	61.4	6	62.1	61.5	63.1	12	62.6	61.7	63.3
Test Weight (kg/hl)	U.S.No. 1	N/A	1	80.8	80.8	80.8	6	81.7	80.9	83.0	5	82.3	81.2	82.8
	U.S.No. 2	N/A	1	80.5	80.5	80.5	--	--	--	--	4	82.2	82.0	83.2
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	3	82.6	82.2	82.9
	All lots	N/A	2	80.6	80.5	80.8	6	81.7	80.9	83.0	12	82.3	81.2	83.2
Moisture	U.S.No. 1	N/A	1	9.2	9.2	9.2	6	9.2	8.6	10.1	5	10.2	9.1	10.9
	U.S.No. 2	N/A	1	10.1	10.1	10.1	--	--	--	--	4	11.1	9.5	11.4
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	3	11.4	11.2	11.5
	All lots	N/A	2	9.6	9.2	10.1	6	9.2	8.6	10.1	12	11.0	9.1	11.5
Heat-damaged Kernels	U.S.No. 1	0.2	1	0.0	0.0	0.0	6	0.0	0.0	0.0	5	0.0	0.0	0.0
	U.S.No. 2	0.2	1	0.0	0.0	0.0	--	--	--	--	4	0.0	0.0	0.0
	U.S.No. 4	1.0	--	--	--	--	--	--	--	--	3	0.0	0.0	0.0
	All lots	N/A	2	0.0	0.0	0.0	6	0.0	0.0	0.0	12	0.0	0.0	0.0
Damaged Kernels (Total)	U.S.No. 1	2.0	1	0.1	0.1	0.1	6	0.1	0.0	0.1	5	0.1	0.0	0.3
	U.S.No. 2	4.0	1	0.9	0.9	0.9	--	--	--	--	4	0.5	0.0	0.5
	U.S.No. 4	10.0	--	--	--	--	--	--	--	--	3	1.6	1.2	2.2
	All lots	N/A	2	0.5	0.1	0.9	6	0.1	0.0	0.1	12	0.6	0.0	2.2
Foreign Material	U.S.No. 1	0.4	1	0.1	0.1	0.1	6	0.1	0.0	0.1	5	0.1	0.1	0.1
	U.S.No. 2	0.7	1	0.1	0.1	0.1	--	--	--	--	4	0.1	0.1	0.1
	U.S.No. 4	3.0	--	--	--	--	--	--	--	--	3	0.2	0.1	0.2
	All lots	N/A	2	0.1	0.1	0.1	6	0.1	0.0	0.1	12	0.1	0.1	0.2
Shrunken and Broken	U.S.No. 1	3.0	1	1.6	1.6	1.6	6	1.3	0.7	1.5	5	1.6	1.4	2.1
	U.S.No. 2	5.0	1	1.3	1.3	1.3	--	--	--	--	4	1.8	1.0	1.9
	U.S.No. 4	12.0	--	--	--	--	--	--	--	--	3	1.3	1.3	1.4
	All lots	N/A	2	1.5	1.3	1.6	6	1.3	0.7	1.5	12	1.7	1.0	2.1
Total Defects	U.S.No. 1	3.0	1	1.8	1.8	1.8	6	1.4	0.9	1.6	5	2.0	1.8	2.4
	U.S.No. 2	5.0	1	2.3	2.3	2.3	--	--	--	--	4	2.4	1.1	2.5
	U.S.No. 4	12.0	--	--	--	--	--	--	--	--	3	3.1	2.7	3.7
	All lots	N/A	2	2.0	1.8	2.3	6	1.4	0.9	1.6	12	2.4	1.1	3.7

continued

Table 7. Summary of export Hard White wheat quality, 2006-2008 -- Continued

Factor	Grade	Grade Limit	2006				2007				2008			
			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	0.3	0.3	0.3	6	0.3	0.1	0.3	5	0.3	0.3	0.3
	U.S.No. 2	N/A	1	0.6	0.6	0.6	--	--	--	--	4	0.5	0.2	0.5
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	3	0.7	0.7	0.8
	All lots	N/A	2	0.4	0.3	0.6	6	0.3	0.1	0.3	12	0.5	0.2	0.8
Wheat of other Classes	U.S.No. 1	3.0	1	1.8	1.8	1.8	6	0.5	0.1	1.0	5	1.4	0.0	2.3
	U.S.No. 2	5.0	1	1.9	1.9	1.9	--	--	--	--	4	1.2	0.0	2.6
	U.S.No. 4	10.0	--	--	--	--	--	--	--	--	3	5.2	4.2	8.4
	All lots	N/A	2	1.8	1.8	1.9	6	0.5	0.1	1.0	12	1.8	0.0	8.4
Contrasting Classes	U.S.No. 1	1.0	1	0.7	0.7	0.7	6	0.4	0.0	0.9	5	0.7	0.6	0.9
	U.S.No. 2	2.0	1	1.2	1.2	1.2	--	--	--	--	4	1.2	0.0	1.6
	U.S.No. 4	10.0	--	--	--	--	--	--	--	--	3	5.2	4.2	8.4
	All lots	N/A	2	0.9	0.7	1.2	6	0.4	0.0	0.9	12	1.7	0.0	8.4
Protein (as is basis)	U.S.No. 1	N/A	1	13.4	13.4	13.4	6	12.8	12.4	15.0	5	12.4	11.8	13.6
	U.S.No. 2	N/A	1	12.8	12.8	12.8	--	--	--	--	4	10.7	10.5	11.4
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	3	11.7	11.7	11.8
	All lots	N/A	2	13.1	12.8	13.4	6	12.8	12.4	15.0	12	11.1	10.5	13.6
Protein (12% moisture)	U.S.No. 1	N/A	1	13.0	13.0	13.0	6	12.4	12.0	14.7	5	12.1	11.5	13.2
	U.S.No. 2	N/A	1	12.5	12.5	12.5	--	--	--	--	4	10.6	10.4	11.3
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	3	11.6	11.6	11.7
	All lots	N/A	2	12.8	12.5	13.0	6	12.4	12.0	14.7	12	11.0	10.4	13.2

N/A = Does not apply.

-- = No lots reported in this category.

Table 8. Summary of export Mixed wheat quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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. 2	58.0	6	60.2	59.8	60.9	--	--	--	--	6	60.2	59.8	60.9
	All lots	N/A	6	60.2	59.8	60.9	--	--	--	--	6	60.2	59.8	60.9
Test Weight (kg/hl)	U.S.No. 2	N/A	6	79.1	78.7	80.2	--	--	--	--	6	79.1	78.7	80.2
	All lots	N/A	6	79.1	78.7	80.2	--	--	--	--	6	79.1	78.7	80.2
Moisture	U.S.No. 2	N/A	6	12.1	11.5	12.5	--	--	--	--	6	12.1	11.5	12.5
	All lots	N/A	6	12.1	11.5	12.5	--	--	--	--	6	12.1	11.5	12.5
Heat-damaged Kernels	U.S.No. 2	0.2	6	0.0	0.0	0.0	--	--	--	--	6	0.0	0.0	0.0
	All lots	N/A	6	0.0	0.0	0.0	--	--	--	--	6	0.0	0.0	0.0
Damaged Kernels (Total)	U.S.No. 2	4.0	6	1.4	0.8	2.3	--	--	--	--	6	1.4	0.8	2.3
	All lots	N/A	6	1.4	0.8	2.3	--	--	--	--	6	1.4	0.8	2.3
Foreign Material	U.S.No. 2	0.7	6	0.2	0.1	0.4	--	--	--	--	6	0.2	0.1	0.4
	All lots	N/A	6	0.2	0.1	0.4	--	--	--	--	6	0.2	0.1	0.4
Shrunken and Broken	U.S.No. 2	5.0	6	1.3	1.0	1.5	--	--	--	--	6	1.3	1.0	1.5
	All lots	N/A	6	1.3	1.0	1.5	--	--	--	--	6	1.3	1.0	1.5
Total Defects	U.S.No. 2	5.0	6	2.9	2.2	3.6	--	--	--	--	6	2.9	2.2	3.6
	All lots	N/A	6	2.9	2.2	3.6	--	--	--	--	6	2.9	2.2	3.6
Dockage	U.S.No. 2	N/A	6	0.9	0.8	0.9	--	--	--	--	6	0.9	0.8	0.9
	All lots	N/A	6	0.9	0.8	0.9	--	--	--	--	6	0.9	0.8	0.9
Protein (as is basis)	U.S.No. 2	N/A	6	12.7	12.6	12.9	--	--	--	--	6	12.7	12.6	12.9
	All lots	N/A	6	12.7	12.6	12.9	--	--	--	--	6	12.7	12.6	12.9
Protein (12% moisture)	U.S.No. 2	N/A	6	12.7	12.7	12.8	--	--	--	--	6	12.7	12.7	12.8
	All lots	N/A	6	12.7	12.7	12.8	--	--	--	--	6	12.7	12.7	12.8

-- = 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 9. U.S. Corn Exports: Number of lots and quantity exported by class and grade, 2006-2008

Class	Grade	2006		2007		2008	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Yellow Corn	U.S. No. 1	184	1,370,975	173	2,098,207	162	2,107,452
	U.S. No. 2	1,302	30,086,164	1,217	27,761,633	1,038	21,609,486
	U.S. No. 3	700	19,033,607	655	17,581,003	603	19,498,660
	U.S. No. 4	1	3,297	8	61,731	4	65,375
	U.S. No. 5	--	--	--	--	1	508
	U.S. Sample Grade	--	--	1	713	--	--
	Not inspected	1	63,829	2	88,097	2	78,505
	All lots	2,188	50,557,872	2,056	47,591,384	1,810	43,359,986
White Corn	U.S. No. 1	36	389,395	8	35,721	17	106,054
	U.S. No. 2	47	324,435	49	470,176	39	676,683
	U.S. No. 3	1	2,870	3	9,419	1	4,316
	Not inspected	--	--	1	7,037	--	--
	All lots	84	716,700	61	522,353	57	787,053
All Classes	U.S. No. 1	220	1,760,370	181	2,133,928	179	2,213,506
	U.S. No. 2	1,349	30,410,599	1,266	28,231,809	1,077	22,286,169
	U.S. No. 3	701	19,036,477	658	17,590,422	604	19,502,976
	U.S. No. 4	1	3,297	8	61,731	4	65,375
	U.S. No. 5	--	--	--	--	1	508
	U.S. Sample Grade	--	--	1	713	--	--
	Not inspected	1	63,829	3	95,134	2	78,505
	All lots	2,272	51,274,572	2,117	48,113,737	1,867	44,147,039

-- = No lots reported in this category.

Not inspected = These lots were sold without grade designation.

Table 10. Summary of export Yellow corn quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	184	58.5	56.0	61.5	173	57.8	56.0	61.4	162	57.6	56.1	60.4
	U.S.No. 2	54.0	1,302	57.8	54.8	69.5	1,217	57.6	54.9	61.2	1,038	57.4	54.2	60.1
	U.S.No. 3	52.0	700	57.7	53.1	60.3	655	57.3	53.2	60.7	603	56.7	52.5	60.4
	U.S.No. 4	49.0	1	51.9	51.9	51.9	8	55.6	51.4	58.3	4	56.8	51.6	57.7
	U.S.No. 5	46.0	--	--	--	--	--	--	--	--	1	58.8	58.8	58.8
	U.S. Sample Grade	N/A	--	--	--	--	1	58.4	58.4	58.4	--	--	--	--
	All lots	N/A	2,187	57.8	51.9	69.5	2,054	57.5	51.4	61.4	1,808	57.1	51.6	60.4
Test Weight (kg/hl)	U.S.No. 1	N/A	184	75.3	72.1	79.2	173	74.5	72.0	79.0	162	74.1	72.2	77.7
	U.S.No. 2	N/A	1,302	74.4	70.5	89.5	1,217	74.1	70.6	78.8	1,038	73.8	69.8	77.3
	U.S.No. 3	N/A	700	74.3	68.3	77.7	655	73.8	68.4	78.1	603	73.0	67.6	77.8
	U.S.No. 4	N/A	1	66.9	66.9	66.9	8	71.6	66.1	75.0	4	73.1	66.5	74.3
	U.S.No. 5	N/A	--	--	--	--	--	--	--	--	1	75.7	75.7	75.7
	U.S. Sample Grade	N/A	--	--	--	--	1	75.2	75.2	75.2	--	--	--	--
	All lots	N/A	2,187	74.4	66.9	89.5	2,054	74.0	66.1	79.0	1,808	73.5	66.5	77.8
Moisture	U.S.No. 1	N/A	184	14.2	13.2	14.8	173	14.1	12.8	14.9	162	13.7	12.2	14.7
	U.S.No. 2	N/A	1,300	14.2	12.6	14.9	1,217	14.2	13.0	15.1	1,038	13.7	12.7	14.9
	U.S.No. 3	N/A	700	14.3	13.4	14.2	655	14.2	13.0	15.1	603	14.0	12.8	15.0
	U.S.No. 4	N/A	1	13.5	13.5	13.5	8	13.8	13.6	14.6	4	13.5	13.4	14.3
	U.S.No. 5	N/A	--	--	--	--	--	--	--	--	1	14.2	14.2	14.2
	U.S. Sample Grade	N/A	--	--	--	--	1	16.9	16.9	16.9	--	--	--	--
	All lots	N/A	2,185	14.2	12.6	14.2	2,054	14.2	12.8	16.9	1,808	13.8	12.2	15.0
Heat-damaged Kernels	U.S.No. 1	0.1	184	0.0	0.0	0.1	173	0.0	0.0	0.0	162	0.0	0.0	0.1
	U.S.No. 2	0.2	1,302	0.0	0.0	0.1	1,217	0.0	0.0	0.2	1,038	0.0	0.0	0.2
	U.S.No. 3	0.5	700	0.0	0.0	0.1	655	0.0	0.0	0.3	603	0.0	0.0	0.1
	U.S.No. 4	1.0	1	0.0	0.0	0.0	8	0.0	0.0	0.0	4	0.0	0.0	0.0
	U.S.No. 5	3.0	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	U.S. Sample Grade	N/A	--	--	--	--	1	0.0	0.0	0.0	--	--	--	--
	All lots	N/A	2,187	0.0	0.0	0.1	2,054	0.0	0.0	0.3	1,808	0.0	0.0	0.2

continued

Table 10. Summary of export Yellow corn quality, 2006-2008--Continued

Factor	Grade	Grade Limit	2006				2007				2008			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Damaged	U.S.No. 1	3.0	184	1.7	0.3	3.0	173	1.9	0.4	3.0	162	1.6	0.3	3.0
Kernels	U.S.No. 2	5.0	1,302	3.0	0.0	5.0	1,217	2.6	0.5	4.7	1,038	2.1	0.4	5.0
(Total)	U.S.No. 3	7.0	700	3.0	0.0	7.0	655	2.5	0.2	6.8	603	1.7	0.2	6.3
	U.S.No. 4	10.0	1	4.9	4.9	4.9	8	3.0	1.3	8.3	4	2.1	0.3	8.3
	U.S.No. 5	15.0	--	--	--	--	--	--	--	--	1	10.4	10.4	10.4
	U.S. Sample													
	Grade	N/A	--	--	--	--	1	1.6	1.6	1.6	--	--	--	--
	All lots	N/A	2,187	3.0	0.0	7.0	2,054	2.5	0.2	8.3	1,808	1.9	0.2	10.4
Broken Corn	U.S.No. 1	2.0	184	1.5	0.6	2.0	173	1.6	0.5	2.0	162	1.7	0.9	2.0
and Foreign	U.S.No. 2	3.0	1,302	2.5	0.9	3.0	1,217	2.4	0.7	3.0	1,037	2.5	0.7	3.0
Material	U.S.No. 3	4.0	697	3.1	0.8	4.0	655	3.0	0.6	4.0	602	2.9	0.8	4.0
	U.S.No. 4	5.0	1	2.4	2.4	2.4	8	4.4	1.3	5.0	4	2.8	2.2	4.9
	U.S.No. 5	7.0	--	--	--	--	--	--	--	--	1	1.9	1.9	1.9
	U.S. Sample													
	Grade	N/A	--	--	--	--	1	1.3	1.3	1.3	--	--	--	--
	All lots	N/A	2,184	2.7	0.6	4.0	2,054	2.6	0.5	5.0	1,806	2.6	0.7	4.9
Broken Corn	U.S.No. 1	N/A	4	1.2	1.1	1.4	6	1.2	0.9	1.3	19	1.3	1.1	1.5
	U.S.No. 2	N/A	144	1.8	1.4	2.4	170	1.8	0.5	2.3	154	1.8	1.1	2.2
	U.S.No. 3	N/A	3	2.4	1.2	2.9	--	--	--	--	3	2.7	2.5	2.9
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S.No. 5	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S. Sample													
	Grade	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	151	1.9	1.1	2.9	176	1.7	0.5	2.3	176	1.7	1.1	2.9
Foreign	U.S.No. 1	N/A	4	0.4	0.4	0.4	6	0.4	0.3	0.6	19	0.5	0.4	0.7
Material	U.S.No. 2	N/A	148	0.7	0.5	1.0	176	0.7	0.3	1.5	167	0.7	0.3	1.1
	U.S.No. 3	N/A	3	0.5	0.4	0.6	--	--	--	--	3	0.4	0.2	0.9
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S.No. 5	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S. Sample													
	Grade	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	155	0.7	0.4	1.0	182	0.7	0.3	1.5	189	0.7	0.2	1.1

N/A = Does not apply.

-- = No lots reported in this category.

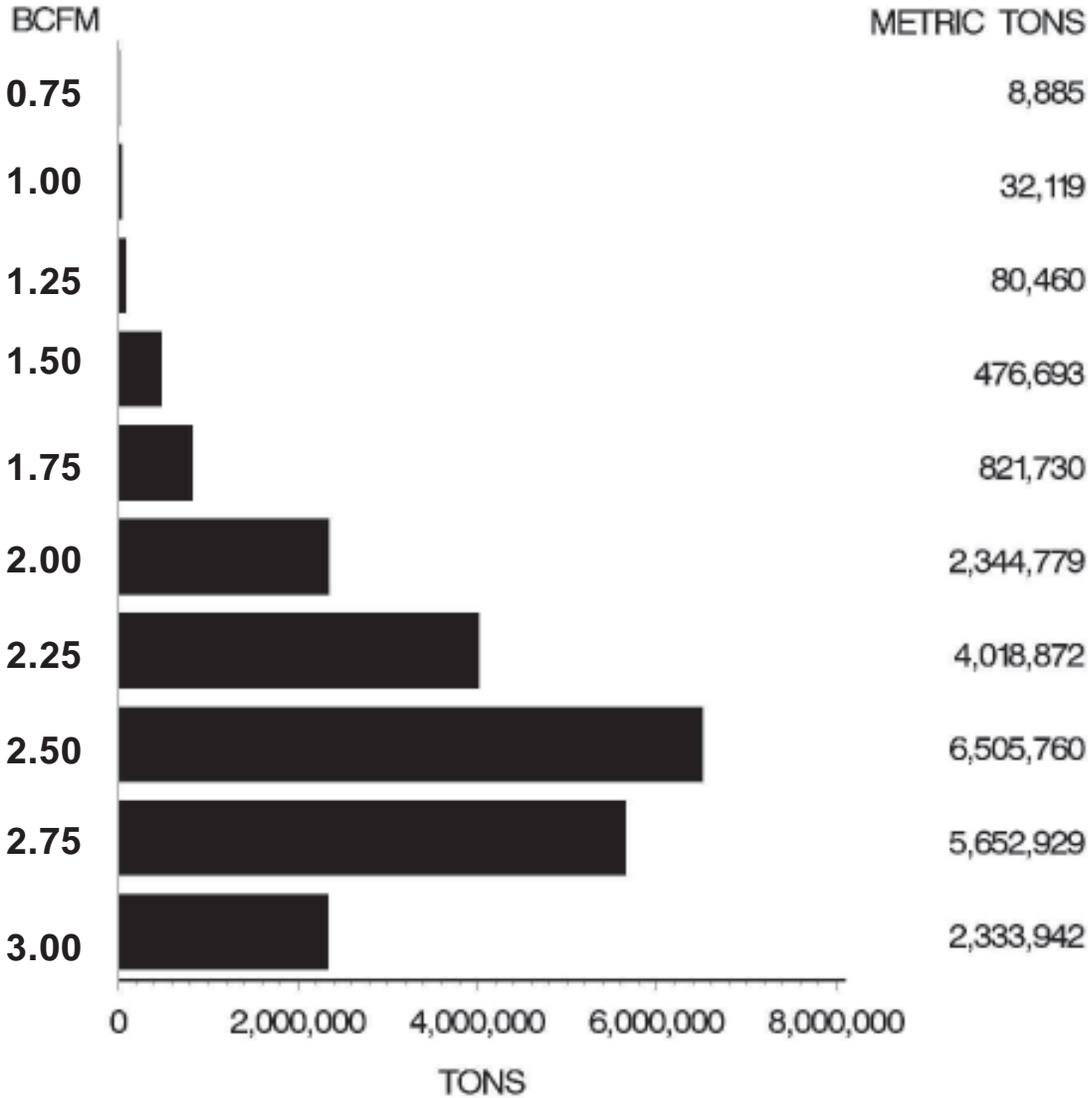
Table 11. Summary of export White corn quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	36	59.6	58.2	60.8	8	59.3	57.5	60.2	17	58.8	57.2	60.3
	U.S.No.2	54.0	47	59.7	57.5	60.9	49	59.0	57.8	60.2	39	59.0	57.9	60.5
	U.S.No.3	52.0	1	59.1	59.1	59.1	3	59.3	58.8	59.6	1	59.3	59.3	59.3
	All lots	N/A	84	59.6	57.5	60.9	60	59.0	57.5	60.2	57	59.0	57.2	60.5
Test Weight (kg/hl)	U.S.No.1	N/A	36	76.7	74.9	78.3	8	76.3	74.0	77.4	17	75.7	73.6	77.6
	U.S.No.2	N/A	47	76.9	74.0	78.4	49	75.9	74.4	77.6	39	76.0	74.6	77.9
	U.S.No.3	N/A	1	76.1	76.1	76.1	3	76.3	75.7	76.8	1	76.4	76.4	76.4
	All lots	N/A	84	76.8	74.0	78.4	60	75.9	74.0	77.6	57	75.9	73.6	77.9
Moisture	U.S.No1	N/A	36	14.0	13.5	14.5	8	14.4	13.4	14.6	17	13.6	12.3	14.4
	U.S.No.2	N/A	47	14.1	11.9	14.6	49	14.1	13.1	14.6	39	13.6	12.7	14.4
	U.S.No.3	N/A	1	14.0	14.0	14.0	3	13.8	13.4	14.6	1	13.7	13.7	13.7
	All lots	N/A	84	14.0	11.9	14.6	60	14.1	13.1	14.6	57	13.6	12.3	14.4
Heat-damaged Kernels	U.S.No.1	0.1	36	0.0	0.0	0.0	8	0.0	0.0	0.0	17	0.0	0.0	0.0
	U.S.No.2	0.2	47	0.0	0.0	0.1	49	0.0	0.0	0.0	39	0.0	0.0	0.0
	U.S.No.3	0.5	1	0.0	0.0	0.0	3	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	84	0.0	0.0	0.1	60	0.0	0.0	0.0	57	0.0	0.0	0.0
Damaged Kernels (Total)	U.S.No.1	3.0	36	1.7	0.6	3.0	8	1.5	0.8	2.3	17	1.7	0.7	3.0
	U.S.No.2	5.0	47	2.4	0.0	4.1	49	3.0	0.6	4.8	39	1.4	0.4	3.5
	U.S.No.3	7.0	1	3.0	3.0	3.0	3	1.7	1.1	2.2	1	0.9	0.9	0.9
	All lots	N/A	84	2.0	0.0	4.1	60	2.9	0.6	4.8	57	1.4	0.4	3.5
Broken Corn and Foreign Material	U.S.No.1	2.0	36	1.7	1.0	2.0	8	1.7	0.9	1.9	17	1.8	1.2	2.0
	U.S.No.2	3.0	47	2.3	1.0	2.9	49	2.4	0.8	3.0	39	2.2	1.2	2.9
	U.S.No.3	4.0	1	3.8	3.8	3.8	3	3.3	3.1	3.4	1	3.7	3.7	3.7
	All lots	N/A	84	2.0	1.0	3.8	60	2.4	0.8	3.4	57	2.2	1.2	3.7
Broken Corn	U.S.No.1	N/A	11	1.3	1.0	1.5	--	--	--	--	6	1.2	1.0	1.5
	U.S.No.2	N/A	8	1.5	1.0	1.9	9	1.8	1.1	2.2	11	1.7	1.2	2.1
	All lots	N/A	19	1.4	1.0	1.9	9	1.8	1.1	2.2	17	1.6	1.0	2.1
Foreign Material	U.S.No.1	N/A	11	0.5	0.3	0.5	--	--	--	--	6	0.5	0.4	0.6
	U.S.No.2	N/A	8	0.5	0.4	0.8	9	0.6	0.3	0.8	11	0.7	0.6	0.9
	All lots	N/A	19	0.5	0.3	0.8	9	0.6	0.3	0.8	17	0.6	0.4	0.9

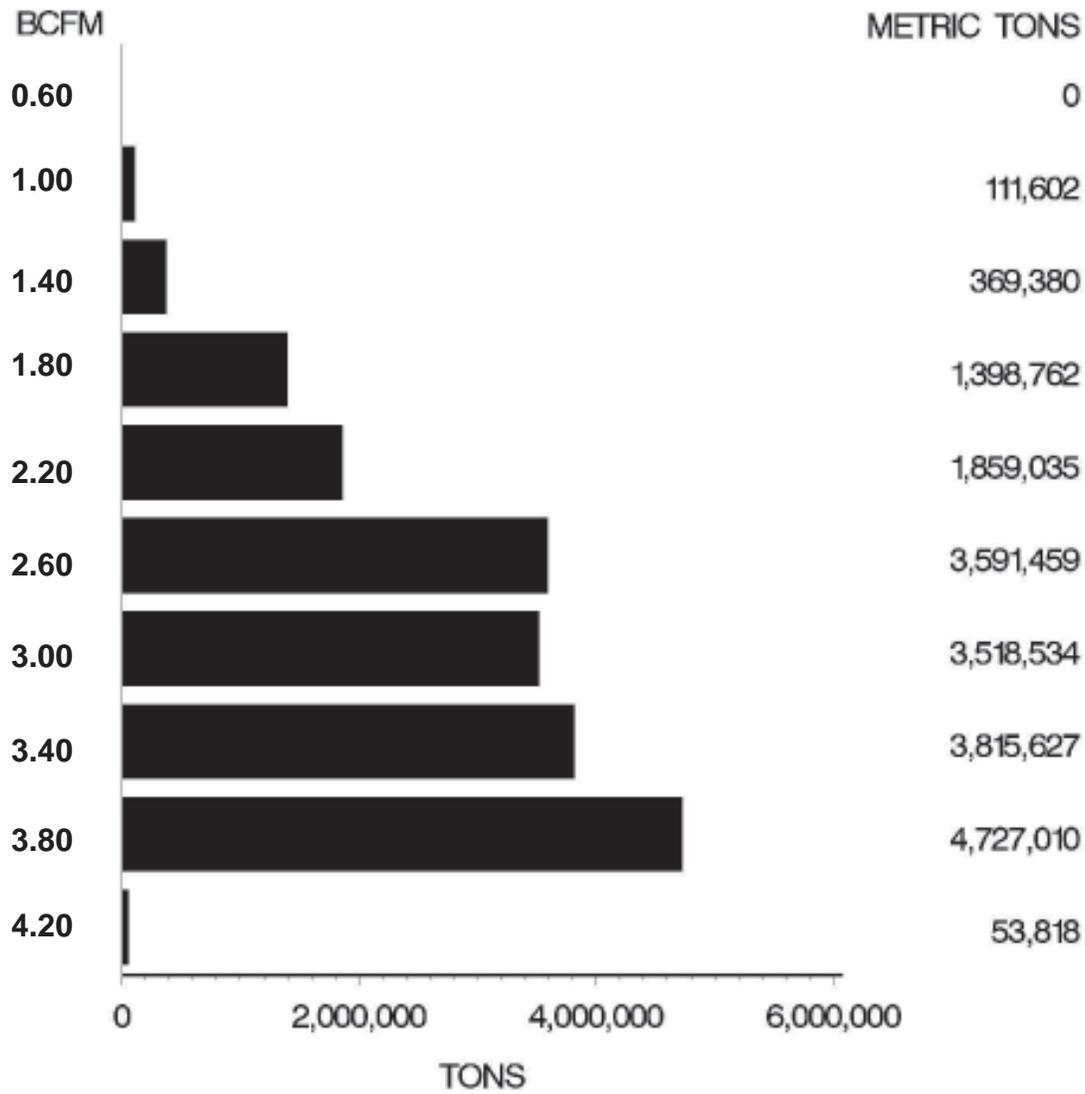
N/A = Does not apply.

-- = No lots reported in this category.

U.S. CORN EXPORTED, 2008
DISTRIBUTION FOR BCFM – GRADE 2



U.S. CORN EXPORTED, 2008
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	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	0.2	2.0	1.0	10.0	1.0
U.S. No. 2	0.5	3.0	2.0	20.0	2.0
U.S. No. 3	1.0	5.0	3.0	30.0	5.0
U.S. No. 4	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 and is recorded to the nearest tenth pound for soybeans.

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 12. U.S. Soybean Exports: Number of lots and quantity exported by class and grade, 2006-2008

Grade	2006		2007		2008	
	Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
U.S.No. 1	36	376,875	23	163,768	16	117,125
U.S.No. 2	914	23,665,853	864	22,649,820	792	24,698,359
U.S.No. 3	14	302,690	16	284,457	17	341,769
U.S.No. 4	3	77,822	15	604,182	8	240,536
U.S. Sample Grade	4	33,266	17	501,415	42	1,787,135
Not inspected	2	70,856	1	28,018	2	131,615
All lots	973	24,527,362	936	24,231,660	877	27,316,539

Not inspected = These lots were sold without grade designation.

Table 13. Summary of export Soybean quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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	36	56.4	56.0	57.7	23	56.4	55.6	57.6	16	55.8	55.1	57.3
	U.S.No. 2	54.0	914	55.8	54.1	58.1	864	55.0	0.0	58.2	792	54.5	0.0	57.6
	U.S.No. 3	52.0	14	55.2	54.6	57.1	16	52.2	0.0	56.7	17	53.0	0.0	56.9
	U.S.No. 4	49.0	3	53.4	53.3	53.9	15	54.7	54.2	55.4	8	54.9	53.0	55.3
	U.S. Sample Grade	N/A	4	53.8	53.0	54.5	17	54.6	53.7	55.3	42	54.4	53.0	55.4
	All lots	N/A	971	55.8	53.0	58.1	935	54.9	0.0	58.2	875	54.4	0.0	57.6
Test Weight (kg/hl)	U.S.No. 1	N/A	36	72.6	72.1	74.2	23	72.6	71.6	74.2	16	71.9	71.0	73.8
	U.S.No. 2	N/A	914	71.8	69.7	74.8	864	70.8	0.0	75.0	792	70.1	0.0	74.1
	U.S.No. 3	N/A	14	71.1	70.3	73.5	16	67.1	0.0	73.0	17	68.2	0.0	73.3
	U.S.No. 4	N/A	3	68.7	68.6	69.4	15	70.4	69.8	71.3	8	70.6	68.3	71.2
	U.S. Sample Grade	N/A	4	69.3	68.2	70.1	17	70.3	69.2	71.2	42	70.0	68.2	71.3
	All lots	N/A	971	71.8	68.2	74.8	935	70.7	0.0	75.0	875	70.1	0.0	74.1
Moisture	U.S.No. 1	N/A	34	11.8	10.9	13.0	23	11.7	11.0	13.5	16	11.4	10.6	12.5
	U.S.No. 2	N/A	913	11.7	9.7	13.9	863	11.6	10.0	13.7	790	11.6	9.8	13.0
	U.S.No. 3	N/A	14	11.8	9.4	12.9	16	11.8	10.2	12.7	17	12.1	11.0	13.6
	U.S.No. 4	N/A	3	12.1	11.2	12.6	15	12.1	11.5	13.1	8	11.5	10.9	13.7
	U.S. Sample Grade	N/A	4	12.4	11.4	13.0	17	12.2	11.3	12.9	42	11.7	10.7	13.9
	All lots	N/A	968	11.7	9.4	13.9	934	11.6	10.0	13.7	873	11.6	9.8	13.9
Heat-damaged Kernels	U.S.No. 1	0.2	36	0.0	0.0	0.1	23	0.0	0.0	0.1	16	0.0	0.0	0.0
	U.S.No. 2	0.5	914	0.2	0.0	0.5	864	0.1	0.0	0.5	792	0.1	0.0	0.5
	U.S.No. 3	1.0	14	0.7	0.0	1.0	16	0.3	0.0	0.5	17	0.3	0.0	0.8
	U.S.No. 4	3.0	3	0.4	0.2	0.7	15	0.5	0.4	0.5	8	0.5	0.3	0.5
	U.S. Sample Grade	N/A	4	0.7	0.3	1.2	17	0.6	0.4	1.0	42	0.7	0.1	1.3
	All lots	N/A	971	0.2	0.0	1.2	935	0.1	0.0	1.0	875	0.2	0.0	1.3
Damaged Kernels (Total)	U.S.No. 1	2.0	36	0.4	0.0	1.3	23	0.5	0.2	1.7	16	0.7	0.1	1.1
	U.S.No. 2	3.0	914	1.3	0.0	3.0	864	1.2	0.1	3.0	792	1.3	0.1	3.0
	U.S.No. 3	5.0	14	2.5	0.2	4.9	16	2.9	0.2	4.9	17	2.8	0.2	4.9
	U.S.No. 4	8.0	3	5.4	4.4	6.8	15	4.4	2.3	6.8	8	3.0	1.9	7.7
	U.S. Sample Grade	N/A	4	6.1	5.0	9.3	17	4.4	2.8	6.7	42	4.5	1.9	10.8
	All lots	N/A	971	1.4	0.0	9.3	935	1.3	0.1	6.8	875	1.5	0.1	10.8

continued

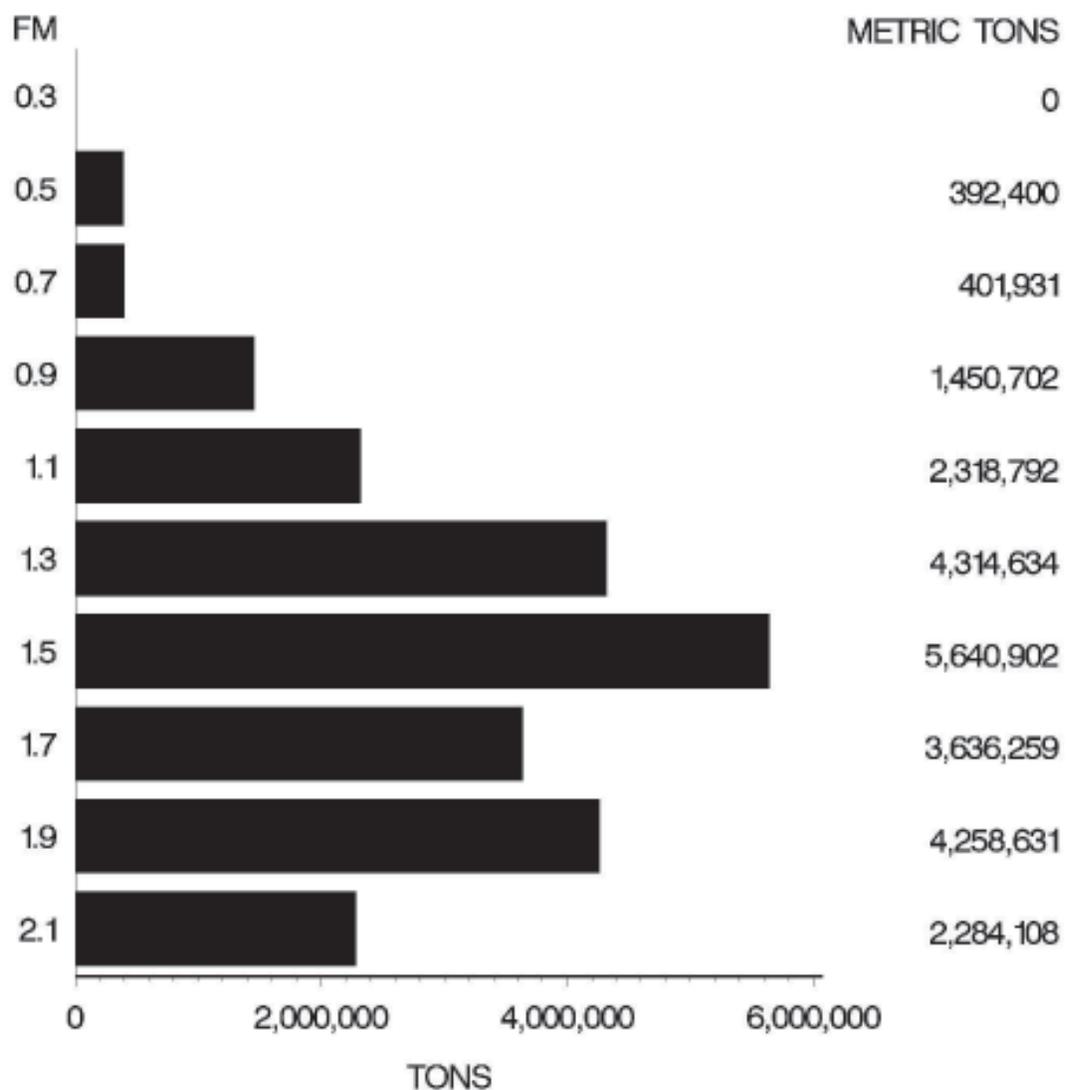
Table 13. Summary of export Soybean quality, 2006-2008--Continued

Factor	Grade	2006					2007				2008			
		Grade Limit	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	36	0.8	0.0	1.0	23	0.8	0.4	1.0	16	0.9	0.3	1.0
	U.S.No. 2	2.0	914	1.5	0.4	2.0	864	1.5	0.1	2.0	792	1.5	0.4	2.0
	U.S.No. 3	3.0	14	1.7	1.0	2.9	16	1.7	0.9	2.0	17	1.7	1.2	2.1
	U.S.No. 4	5.0	3	1.7	1.6	1.9	15	1.7	1.4	1.9	8	1.7	1.5	2.0
	U.S. Sample Grade	N/A	4	1.8	1.6	2.0	17	1.5	1.2	1.9	42	2.0	1.3	3.0
	All lots	N/A	971	1.5	0.0	2.9	935	1.5	0.1	2.0	875	1.5	0.3	3.0
Splits	U.S.No. 1	10.0	36	6.1	0.0	9.7	23	7.0	0.5	12.6	16	7.7	2.0	9.7
	U.S.No. 2	20.0	914	8.3	0.0	19.9	864	9.3	1.6	19.1	792	8.7	1.9	18.7
	U.S.No. 3	30.0	14	8.7	3.5	28.9	16	10.1	5.3	22.7	17	8.1	4.3	24.0
	U.S.No. 4	40.0	3	6.9	6.0	8.7	15	7.4	5.1	9.9	8	9.9	5.3	11.7
	U.S. Sample Grade	N/A	4	6.7	5.1	9.7	17	7.9	5.3	10.7	42	10.0	4.9	14.6
	All lots	N/A	971	8.3	0.0	28.9	935	9.2	0.5	22.7	875	8.7	1.9	24.0
Soybeans of Other Colors	U.S.No. 1	1.0	36	0.8	0.0	3.0	23	0.1	0.0	0.2	16	0.0	0.0	0.2
	U.S.No. 2	2.0	914	0.5	0.0	7.0	864	0.0	0.0	0.4	792	0.0	0.0	0.7
	U.S.No. 3	5.0	14	0.3	0.0	2.0	16	0.0	0.0	0.1	17	0.1	0.0	0.2
	U.S.No. 4	10.0	3	0.7	0.0	2.0	15	0.0	0.0	0.2	8	0.0	0.0	0.1
	U.S. Sample Grade	N/A	4	0.2	0.0	1.0	17	0.1	0.0	0.1	42	0.1	0.0	0.2
	All lots	N/A	971	0.5	0.0	7.0	935	0.0	0.0	0.4	875	0.0	0.0	0.7
Protein (adjusted to 13% moisture)	U.S.No. 1	N/A	29	35.0	34.2	37.0	17	35.1	34.3	36.7	10	35.2	34.2	36.9
	U.S.No. 2	N/A	534	34.8	33.4	38.8	514	34.8	32.1	38.9	415	34.9	33.4	38.7
	U.S.No. 3	N/A	3	35.0	34.9	35.2	1	35.5	35.5	35.5	6	35.3	34.4	38.6
	U.S.No. 4	10.0	1	35.8	35.8	35.8	14	35.3	34.8	35.6	6	35.3	35.2	35.4
	U.S. Sample Grade	N/A	1	34.6	34.6	34.6	13	35.2	34.7	35.5	33	35.2	34.5	35.7
	All lots	N/A	568	34.8	33.4	38.8	559	34.8	32.1	38.9	470	34.9	33.4	38.7
Oil (adjusted to 13% moisture)	U.S.No. 1	N/A	29	19.2	18.1	20.2	18	18.8	17.4	19.7	--	--	--	--
	U.S.No. 2	N/A	536	19.4	17.0	20.8	522	19.1	16.9	20.4	1	18.2	18.2	18.2
	U.S.No. 3	N/A	3	19.6	19.5	19.7	1	19.8	19.8	19.8	--	--	--	--
	U.S.No. 4	N/A	1	19.7	19.7	19.7	14	19.3	19.1	20.1	--	--	--	--
	U.S. Sample Grade	N/A	1	20.4	20.4	20.4	13	19.4	19.0	20.0	--	--	--	--
	All lots	N/A	570	19.4	17.0	20.8	568	19.1	16.9	20.4	1	18.2	18.2	18.2

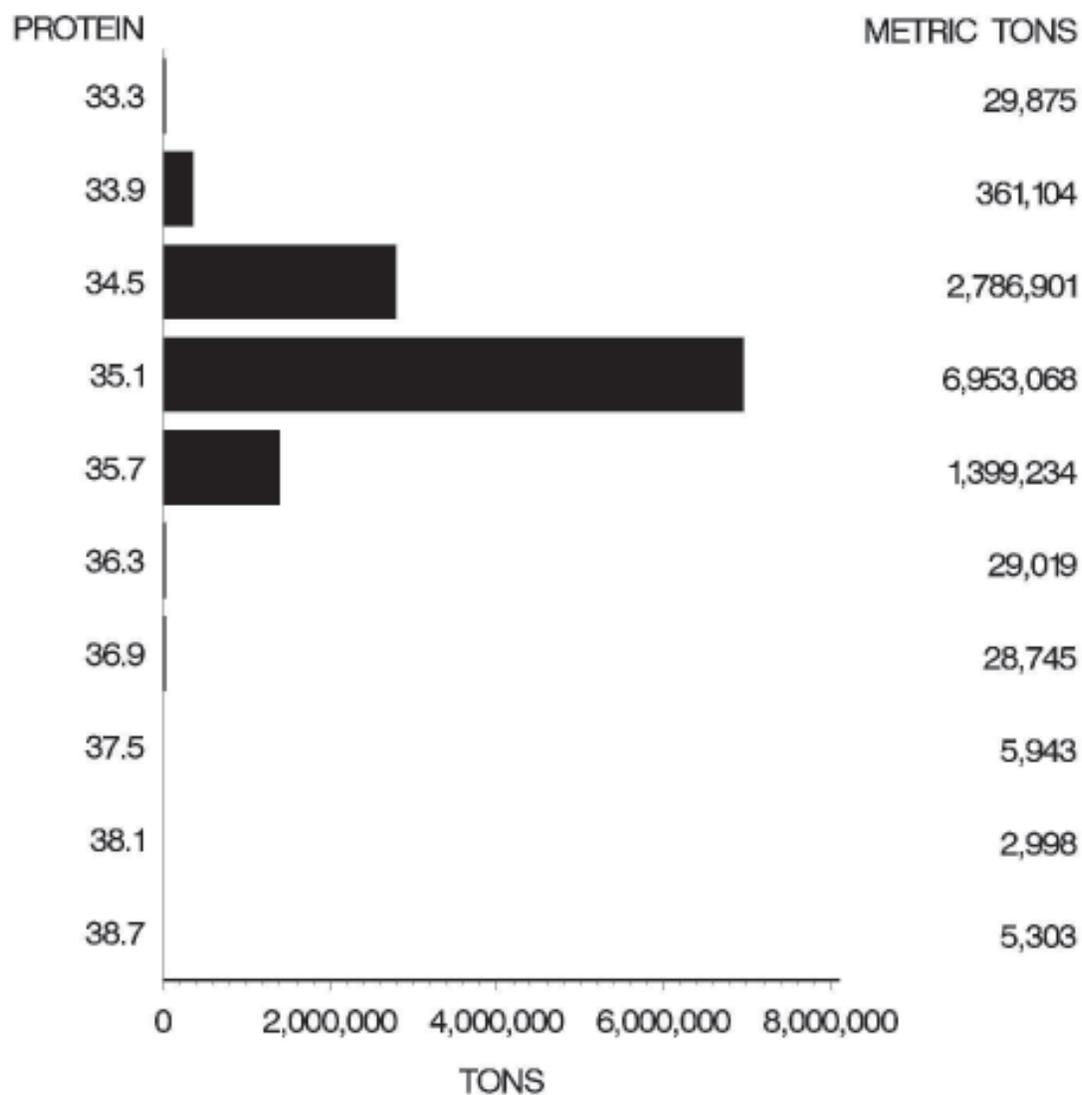
N/A = Does not apply.

-- = No lots reported in this category.

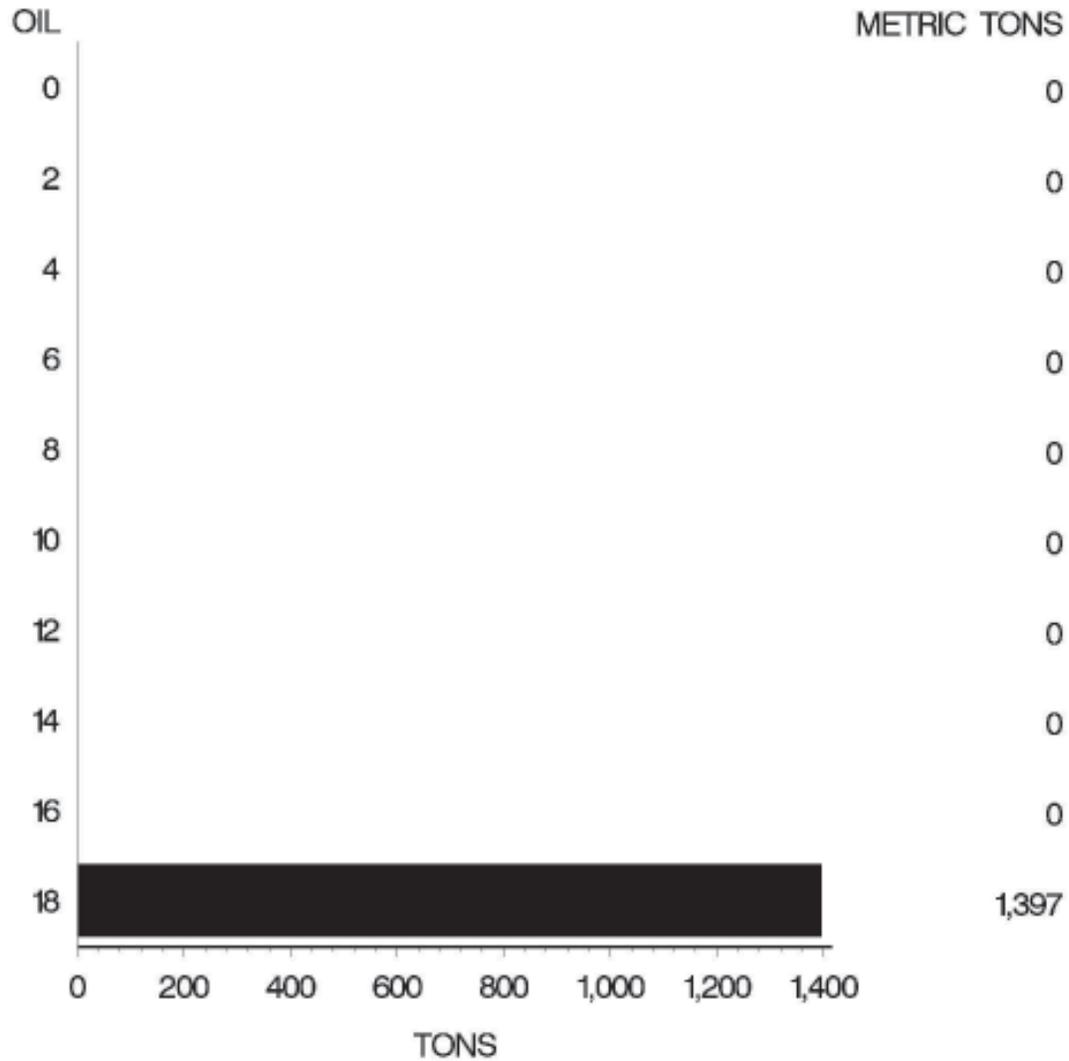
U.S. SOYBEANS EXPORTED, 2008
DISTRIBUTION FOR FM – GRADE 2



U.S. SOYBEANS EXPORTED, 2008
DISTRIBUTION FOR PROTEIN (13% M) – ALL GRADES



U.S. SOYBEANS EXPORTED, 2008
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	3.0	1.0
U.S.No. 2	55.0	0.5	5.0	6.0	2.0
U.S.No. 3 ¹	53.0	1.0	10.0	8.0	3.0
U.S.No. 4	51.0	3.0	15.0	10.0	4.0
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 14. U.S. Sorghum Exports: Number of lots and quantity exported by class and grade, 2005-2007

Class	Grade	2006		2007		2008	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
Yellow Sorghum	U.S. No. 2	282	3,466,468	207	3,579,584	199	4,055,944
	U.S. No. 3	--	--	13	474,465	2	104,505
	U.S. No. 4	--	--	4	141,959	1	33,554
	U.S. Sample Grade	--	--	--	--	1	60,003
	Not Inspected	3	29,780	4	263,654	4	226,848
	All lots	285	3,496,248	228	4,459,662	207	4,480,854
All Classes	U.S. No. 2	282	3,466,468	207	3,579,584	199	4,055,944
	U.S. No. 3	--	--	13	474,465	2	104,505
	U.S. No. 4	--	--	4	141,959	1	33,554
	U.S. Sample Grade	--	--	--	--	1	60,003
	Not Inspected	3	29,780	4	263,654	4	226,848
	All lots	285	3,496,248	228	4,459,662	207	4,480,854

-- = No lots reported in this category.

Table 15. Summary of export Sorghum quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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. 2	55.0	282	58.4	56.2	60.5	207	58.3	55.3	60.2	199	58.7	55.8	60.1
	U.S.No. 3	53.0	--	--	--	--	13	57.3	55.0	58.3	2	58.7	58.5	58.8
	U.S.No. 4	51.0	--	--	--	--	4	55.8	55.0	56.9	1	55.9	55.9	55.9
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	59.1	59.1	59.1
	All lots	N/A	282	58.4	56.2	60.5	224	58.1	55.0	60.2	203	58.7	55.8	60.1
Test Weight (kg/hl)	U.S.No. 2	N/A	282	75.2	72.4	77.9	207	75.1	71.1	77.5	199	75.5	71.9	77.3
	U.S.No. 3	N/A	--	--	--	--	13	73.8	70.8	75.0	2	75.5	75.3	75.7
	U.S.No. 4	N/A	--	--	--	--	4	71.8	70.9	73.2	1	71.9	71.9	71.9
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	76.1	76.1	76.1
	All lots	N/A	282	75.2	72.4	77.9	224	74.8	70.8	77.5	203	75.5	71.9	77.3
Moisture	U.S.No. 2	N/A	282	13.3	12.3	14.0	207	13.4	12.3	14.0	199	13.4	12.1	14.0
	U.S.No. 3	N/A	--	--	--	--	13	13.3	12.8	13.8	2	13.1	13.0	13.2
	U.S.No. 4	N/A	--	--	--	--	4	13.6	13.3	14.0	1	13.1	13.1	13.1
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	13.5	13.5	13.5
	All lots	N/A	282	13.3	12.3	14.0	224	13.4	12.3	14.0	203	13.3	12.1	14.0
Heat-damaged Kernels	U.S.No. 2	0.5	282	0.0	0.0	0.2	207	0.0	0.0	0.1	199	0.0	0.0	0.1
	U.S.No. 3	1.0	--	--	--	--	13	0.0	0.0	0.0	2	0.0	0.0	0.0
	U.S.No. 4	3.0	--	--	--	--	4	0.0	0.0	0.0	1	0.0	0.0	0.0
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	All lots	N/A	282	0.0	0.0	0.2	224	0.0	0.0	0.1	203	0.0	0.0	0.1
Damaged Kernels (Total)	U.S.No. 2	5.0	282	1.2	0.1	4.9	207	1.8	0.3	5.0	199	1.9	0.2	4.7
	U.S.No. 3	10.0	--	--	--	--	13	6.8	1.8	9.1	2	3.6	2.7	5.1
	U.S.No. 4	15.0	--	--	--	--	4	11.6	10.1	14.3	1	9.1	9.1	9.1
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	1.5	1.5	1.5
	All lots	N/A	282	1.2	0.1	4.9	224	2.7	0.3	14.3	203	2.0	0.2	9.1

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

Continued

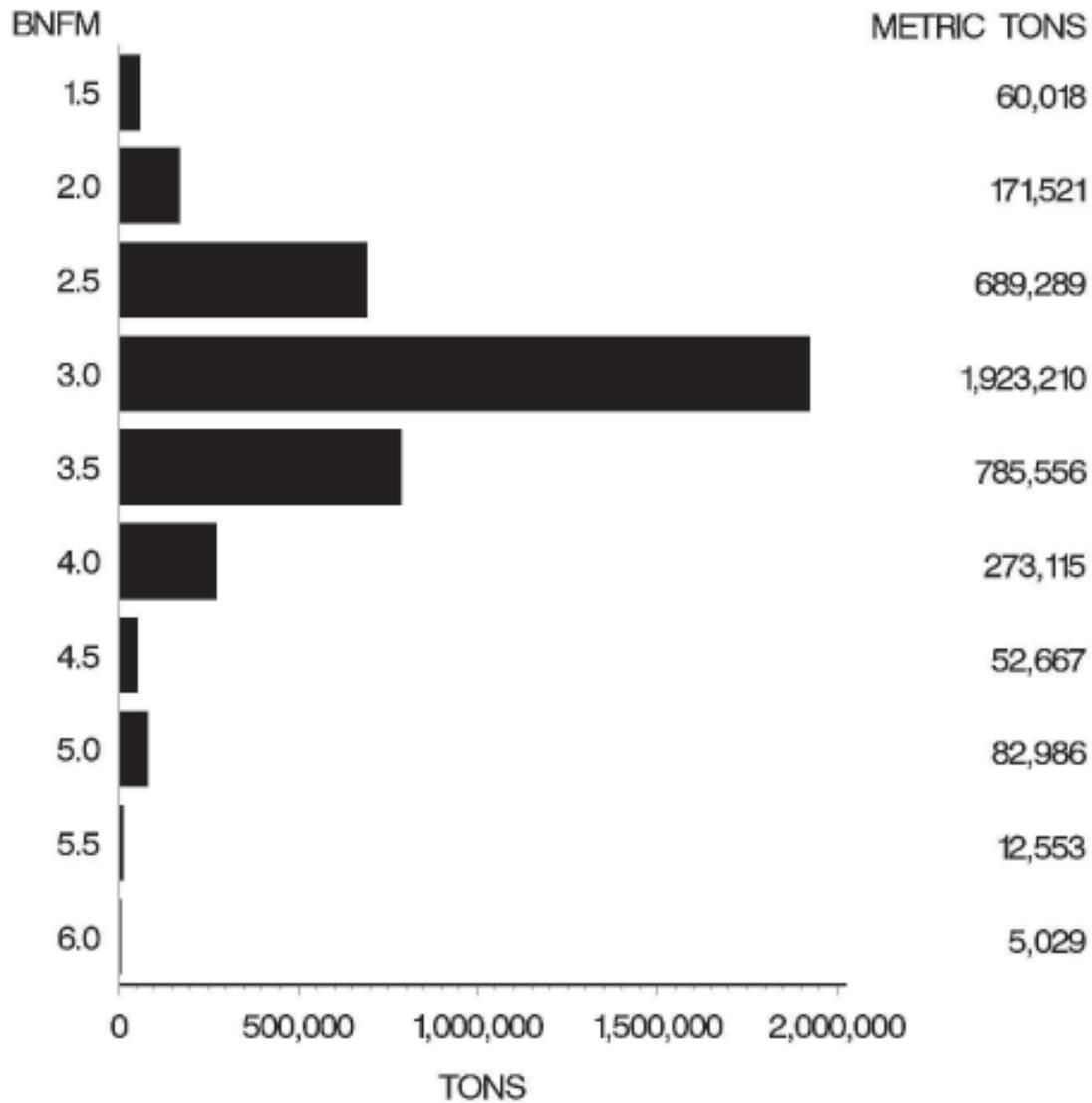
Table 15. Summary of export Sorghum quality, 2006-2008 -- continued

Factor	Grade	Grade Limit	2006				2007				2008			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Broken Kernels and Foreign Material	U.S.No. 2	6.0	282	3.6	1.9	6.1	207	3.5	1.4	5.7	199	3.1	1.5	5.8
	U.S.No. 3	8.0	--	--	--	--	13	3.6	2.9	4.1	2	3.1	3.1	3.2
	U.S.No. 4	10.0	--	--	--	--	4	3.9	3.4	4.3	199	58.7	55.8	60.1
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	3.6	3.6	3.6
	All lots	N/A	282	3.6	1.9	6.1	224	3.5	1.4	5.7	203	3.1	1.5	5.8
Broken Kernels	U.S.No. 2	N/A	1	1.8	1.8	1.8	3	2.4	2.3	2.5	--	--	--	--
	U.S.No. 3	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S.No. 4	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	1	1.8	1.8	1.8	3	2.4	2.3	2.5	--	--	--	--
Foreign Material	U.S.No. 2	2.0	282	1.1	0.0	2.4	207	1.3	0.4	2.3	199	1.0	0.0	2.4
	U.S.No. 3	3.0	--	--	--	--	13	1.1	0.8	1.9	2	0.9	0.8	0.9
	U.S.No. 4	4.0	--	--	--	--	4	1.3	0.9	1.5	1	1.6	1.6	1.6
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	1.2	1.2	1.2
	All lots	N/A	282	1.1	0.0	2.4	224	1.2	0.4	2.3	203	1.0	0.0	2.4
Dockage	U.S.No. 2	N/A	278	0.2	0.1	0.4	206	0.2	0.1	0.5	198	0.2	0.1	0.4
	U.S.No. 3	N/A	--	--	--	--	13	0.2	0.1	0.2	2	0.2	0.2	0.2
	U.S.No. 4	N/A	--	--	--	--	4	0.2	0.2	0.2	1	0.3	0.3	0.3
	U.S. Sample Grade	N/A	--	--	--	--	--	--	--	--	1	0.2	0.2	0.2
	All lots	N/A	278	0.2	0.1	0.4	223	0.2	0.1	0.5	202	0.2	0.1	0.4

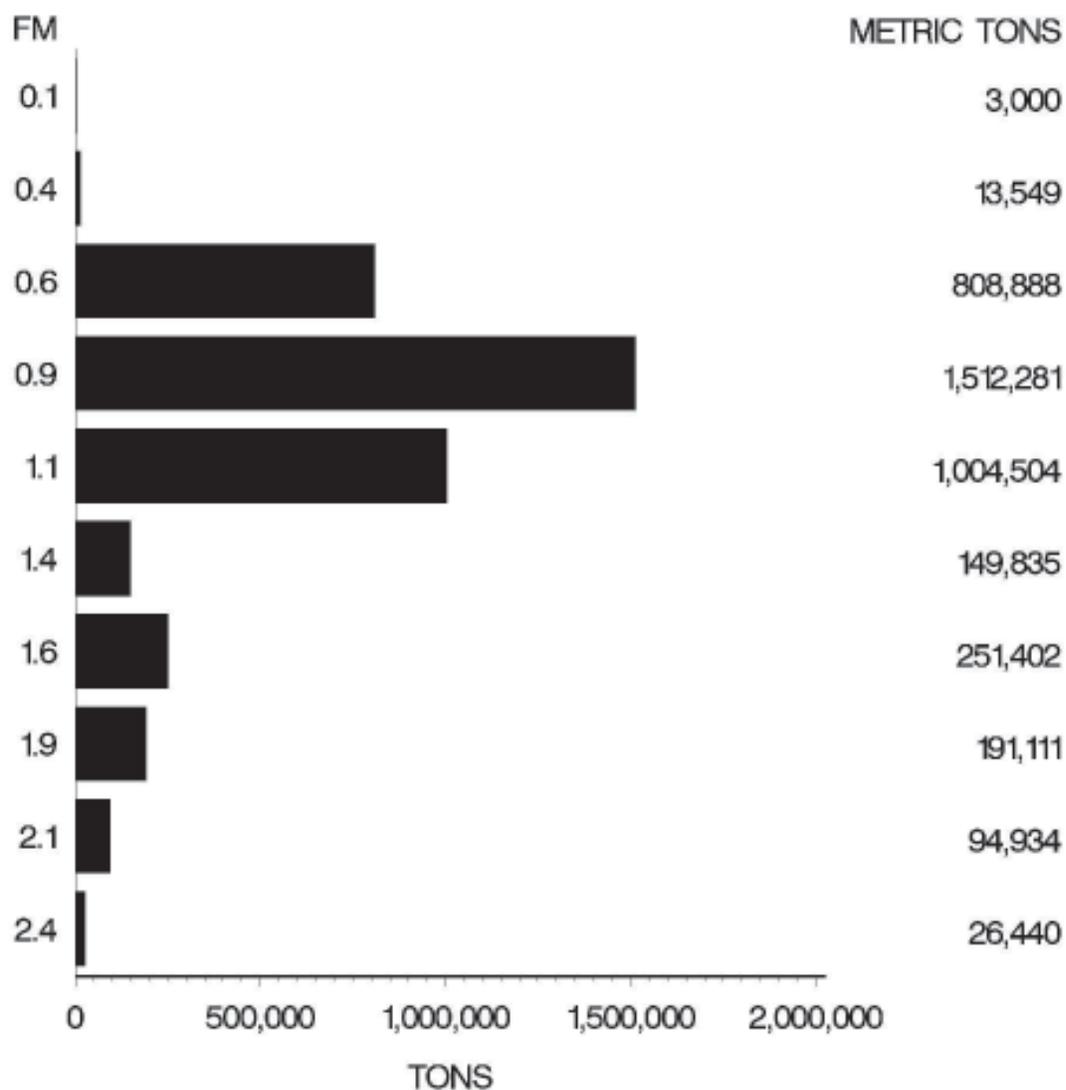
N/A = Does not apply.

-- = No lots reported in this category.

U.S. SORGHUM EXPORTED, 2008
DISTRIBUTION FOR BNFM – GRADE 2



U.S. SORGHUM EXPORTED, 2008
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 16. U.S. Barley Exports: Number of lots and quantity exported by class and grade, 2006-2008

Class	Grade	2006		2007		2008	
		Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
	U.S.No. 2	18	305,800	36	685,338	23	412,099
	All lots	18	305,800	36	685,338	23	412,099

-- = No lots reported in this category.

Table 17. Summary of export Barley quality, 2006-2008

Factor	Grade	Grade Limit	2006				2007				2008			
			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. 2	45.0	18	51.8	47.5	54.3	36	51.1	48.7	54.6	23	51.2	49.3	53.5
	All lots	N/A	18	51.8	47.5	54.3	36	51.1	48.7	54.6	23	51.2	49.3	53.5
Test Weight (kg/hl)	U.S. No. 2	N/A	18	66.7	61.2	69.9	36	65.8	62.7	70.3	23	65.9	63.5	68.9
	All lots	N/A	18	66.7	61.2	69.9	36	65.8	62.7	70.3	23	65.9	63.5	68.9
Moisture	U.S. No. 2	N/A	18	11.0	9.9	13.3	36	11.4	10.1	13.4	23	10.9	9.9	12.7
	All lots	N/A	18	11.0	9.9	13.3	36	11.4	10.1	13.4	23	10.9	9.9	12.7
Heat-damaged Kernels	U.S. No. 2	0.3	18	0.0	0.0	0.1	36	0.0	0.0	0.2	23	0.0	0.0	0.1
	All lots	N/A	18	0.0	0.0	0.1	36	0.0	0.0	0.2	23	0.0	0.0	0.1
Damaged Kernels (Total)	U.S. No. 2	4.0	18	0.4	0.0	3.1	36	0.5	0.0	2.7	23	0.4	0.0	1.4
	All lots	N/A	18	0.4	0.0	3.1	36	0.5	0.0	2.7	23	0.4	0.0	1.4
Foreign Material	U.S. No. 2	2.0	18	0.1	0.0	0.2	36	0.1	0.0	0.3	23	0.1	0.0	0.3
	All lots	N/A	18	0.1	0.0	0.2	36	0.1	0.0	0.3	23	0.1	0.0	0.3
Sound Barley	U.S. No. 2	94.0	18	96.4	0.0	99.9	36	45.0	0.0	99.8	23	26.2	0.0	99.3
	All lots	N/A	18	96.4	0.0	99.9	36	45.0	0.0	99.8	23	26.2	0.0	99.3
Thin Barley	U.S. No. 2	15.0	18	7.0	1.8	12.8	36	5.8	2.0	10.9	23	7.7	2.6	10.3
	All lots	N/A	18	7.0	1.8	12.8	36	5.8	2.0	10.9	23	7.7	2.6	10.3
Broken Kernels	U.S. No. 2	8.0	18	0.2	0.0	0.9	36	0.5	0.0	1.0	23	0.6	0.0	1.0
	All lots	N/A	18	0.2	0.0	0.9	36	0.5	0.0	1.0	23	0.6	0.0	1.0
Dockage	U.S. No. 2	N/A	18	0.9	0.5	1.7	35	0.8	0.4	1.5	23	0.9	0.5	1.3
	All lots	N/A	18	0.9	0.5	1.7	35	0.8	0.4	1.5	23	0.9	0.5	1.3

N/A = Does not apply.

-- = No lots reported in this category.

Canola

Canola Grades and Grade Requirements

There are no classes of canola. Canola is divided into three numerical grades and U.S. Sample grade. Special grades are provided to emphasize special qualities or conditions

affecting the value, and 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 Canola

Grade	Maximum percent limits of --							Maximum count limits of --			
	Damaged Kernels			Conspicuous Admixture				Inconspicuous Admixture	Other material		
	Heat damaged (percent)	Distinctly green (percent)	Total (percent)	Ergot (percent)	Sclerotinia (percent)	Stones (percent)	Total (percent)		Animal Filth	Glass	Unknown Foreign Substance
U.S. No. 1	0.1	2.0	3.0	0.05	0.05	0.05	1.0	5.0	3	0	1
U.S. No. 2	0.5	6.0	10.0	0.05	0.10	0.05	1.5	5.0	3	0	1
U.S. No. 3	2.0	20.0	20.0	0.05	0.15	0.05	2.0	5.0	3	0	1
U.S. Sample Grade											

U.S. Sample grade is canola that:

- (a) Does not meet the requirements for U.S. Nos. 1, 2, or 3; or
- (b) Has a musty, sour, or commercially objectionable foreign odor; or
- (c) Is heating or otherwise of distinctly low quality.

Canola

Definitions

Conspicuous admixture is all matter other than canola including, but not limited to, ergot, sclerotinia, and stones, which is conspicuous and readily distinguishable from canola and which remains in the sample after the removal of machine separated dockage. Conspicuous admixture is added to machine separated dockage in the computation of total dockage.

Damaged kernels are canola and pieces of canola that are heat-damaged, sprout-damaged, mold-damaged, distinctly green-damaged, frost-damaged, rime-damaged, or otherwise materially damaged.

Distinctly green kernels are canola and pieces of canola which, after being crushed, exhibit a distinctly green color.

Dockage is all matter other than canola that can be removed from the original sample by use of an approved device according to procedures described in FGIS instructions. Also, underdeveloped, shriveled, and small pieces of canola kernels that cannot be recovered by properly screening or recleaning. Machine separated dockage is added to conspicuous admixture in the computation of total dockage.

Ergot is sclerotia of the fungus, *Claviceps* species, which are associated with some seeds other than canola where the fungal organism has replaced the seed.

Heat-damaged kernels are canola and pieces of canola which, after being crushed, exhibit that they are discolored and damaged by heat.

Inconspicuous admixture is any seed which is difficult to distinguish from canola. This includes, but is not limited to, common wild mustard (*Brassica kaber* and *B. juncea*), domestic brown mustard (*Brassica juncea*), yellow mustard (*B. hirta*), and seed other than the mustard group.

Sclerotia are dark colored or black resting bodies of the *Sclerotinia* and *Claviceps*.

Sclerotinia is the genus name which includes the fungus *Sclerotinia sclerotiorum* which produces sclerotia. Canola is only infrequently infected, and the sclerotia, unlike sclerotia of ergot, are usually associated with the stem of the plants.

Table 18. U.S. Canola Exports: Number of lots and quantity exported by class and grade, 2006-2008

	2006		2007		2008	
	Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
U.S.No. 1	--	--	--	--	1	21,078
All lots	--	--	--	--	1	21,078

-- = No lots reported in this category.

Table 19. Summary of export Canola quality, 2006-2008

Factor	Grade	Grade Limit	2006			2007			2008					
			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	1.9	1.9	1.9
	All lots	N/A	--	--	--	--	--	--	--	--	1	1.9	1.9	1.9
Moisture	U.S. No. 1	N/A	--	--	--	--	--	--	--	--	1	8.1	8.1	8.1
	All lots	N/A	--	--	--	--	--	--	--	--	1	8.1	8.1	8.1
Heatdamaged Kernels	U.S. No. 1	0.1	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	All lots	N/A	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
Distinctly green kernels	U.S. No. 1	2.0	--	--	--	--	--	--	--	--	1	3.0	3.0	3.0
	All lots	N/A	--	--	--	--	--	--	--	--	1	3.0	3.0	3.0
Totaldamaged kernels	U.S. No. 1	3.0	--	--	--	--	--	--	--	--	1	0.4	0.4	0.4
	All lots	N/A	--	--	--	--	--	--	--	--	1	0.4	0.4	0.4
Ergot	U.S. No. 1	0.05	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	--	--	--	--	--	--	--	--	--	--	--	--
Sclerotinia	U.S. No. 1	0.05	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	--	--	--	--	--	--	--	--	--	--	--	--
Stones	U.S. No. 1	0.05	--	--	--	--	--	--	--	--	--	--	--	--
	All lots	N/A	--	--	--	--	--	--	--	--	--	--	--	--
Total conspicuous admixture	U.S. No. 1	1.0	--	--	--	--	--	--	--	--	1	1.0	1.0	1.0
	All lots	N/A	--	--	--	--	--	--	--	--	1	1.0	1.0	1.0
Inconspicuous admixture	U.S. No. 1	5.0	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0
	All lots	N/A	--	--	--	--	--	--	--	--	1	0.0	0.0	0.0

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 20. U.S. Flaxseed Exports: Number of lots and quantity exported by class and grade, 2006-2008

	2006		2007		2008	
	Number of Lots	Metric Tons	Number of Lots	Metric Tons	Number of Lots	Metric Tons
U.S.No. 1	4	24,953	6	51,754	1	21,112
All lots	4	24,953	6	51,754	1	21,112

-- = No lots reported in this category.

Table 21. Summary of export Flaxseed quality, 2006-2008

Factor	Grade	Grade Limit	2006			2007			2008					
			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	4	50.5	50.3	50.6	6	50.4	50.1	50.7	3	50.1	49.7	50.7
	All lots	N/A	4	50.5	50.3	50.6	6	50.4	50.1	50.7	3	50.1	49.7	50.7
Test Weight (kg/hl)	U.S.No. 1	N/A	4	65.0	64.8	65.1	6	64.8	64.5	65.2	3	64.5	64.0	65.3
	All lots	N/A	4	65.0	64.8	65.1	6	64.8	64.5	65.2	3	64.5	64.0	65.3
Moisture	U.S.No. 1	N/A	4	7.3	6.9	7.6	6	7.0	6.9	7.4	3	7.1	6.7	7.3
	All lots	N/A	4	7.3	6.9	7.6	6	7.0	6.9	7.4	3	7.1	6.7	7.3
Heat-damaged kernels	U.S.No. 1	0.2	4	0.0	0.0	0.0	6	0.0	0.0	0.0	3	0.0	0.0	0.0
	All lots	N/A	4	0.0	0.0	0.0	6	0.0	0.0	0.0	3	0.0	0.0	0.0
Damaged Flaxseed (Total)	U.S.No. 1	10.0	4	0.1	0.0	0.2	6	0.0	0.0	0.2	3	0.0	0.0	0.0
	All lots	N/A	4	0.1	0.0	0.2	6	0.0	0.0	0.2	3	0.0	0.0	0.0
Dockage	U.S.No. 1	N/A	4	6.0	5.4	6.9	6	5.6	4.5	6.4	3	5.2	4.7	5.5
	All lots	N/A	4	6.0	5.4	6.9	6	5.6	4.5	6.4	3	5.2	4.7	5.5

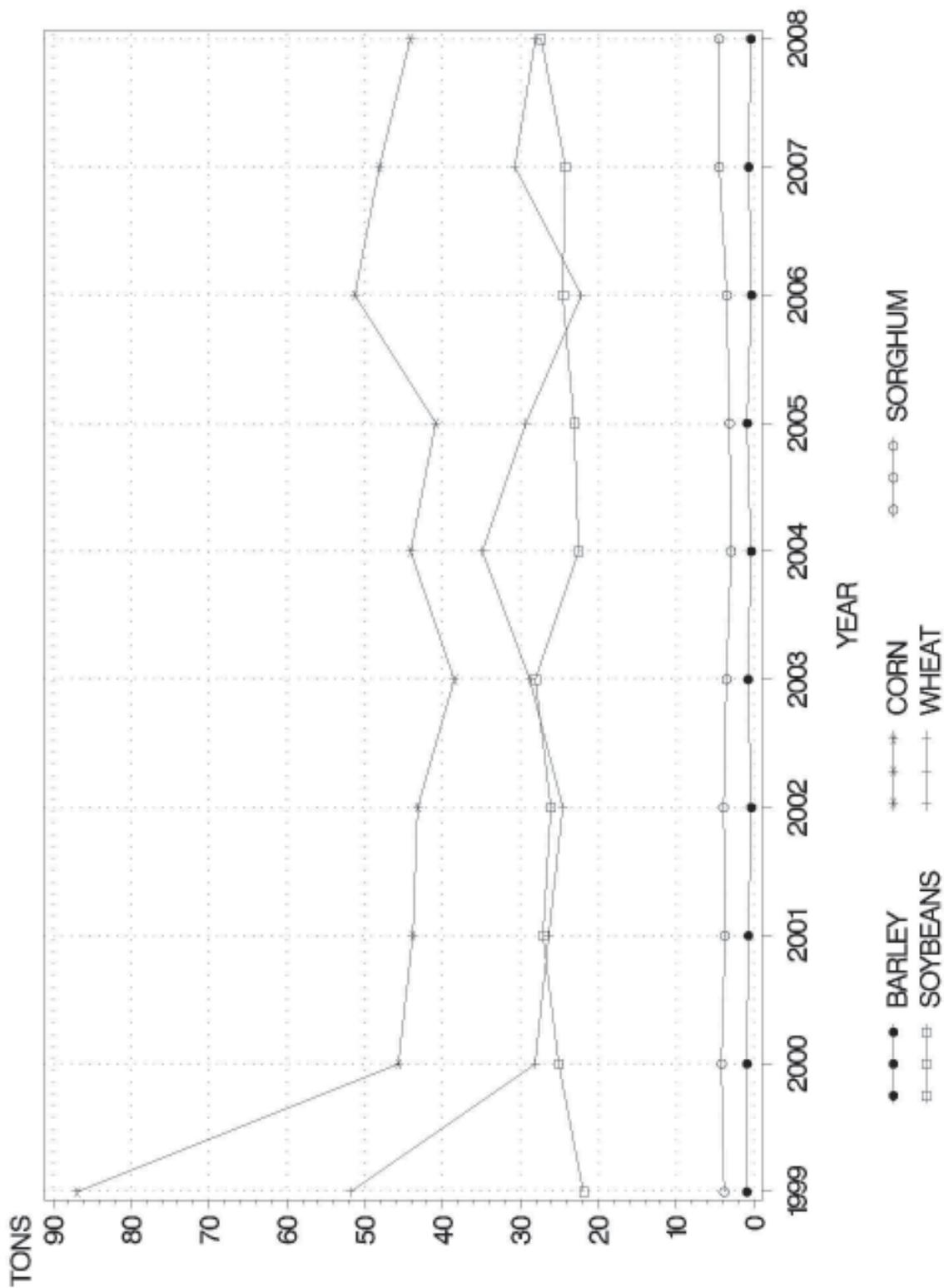
N/A = Does not apply.

-- = No lots reported in this category.

Appendix

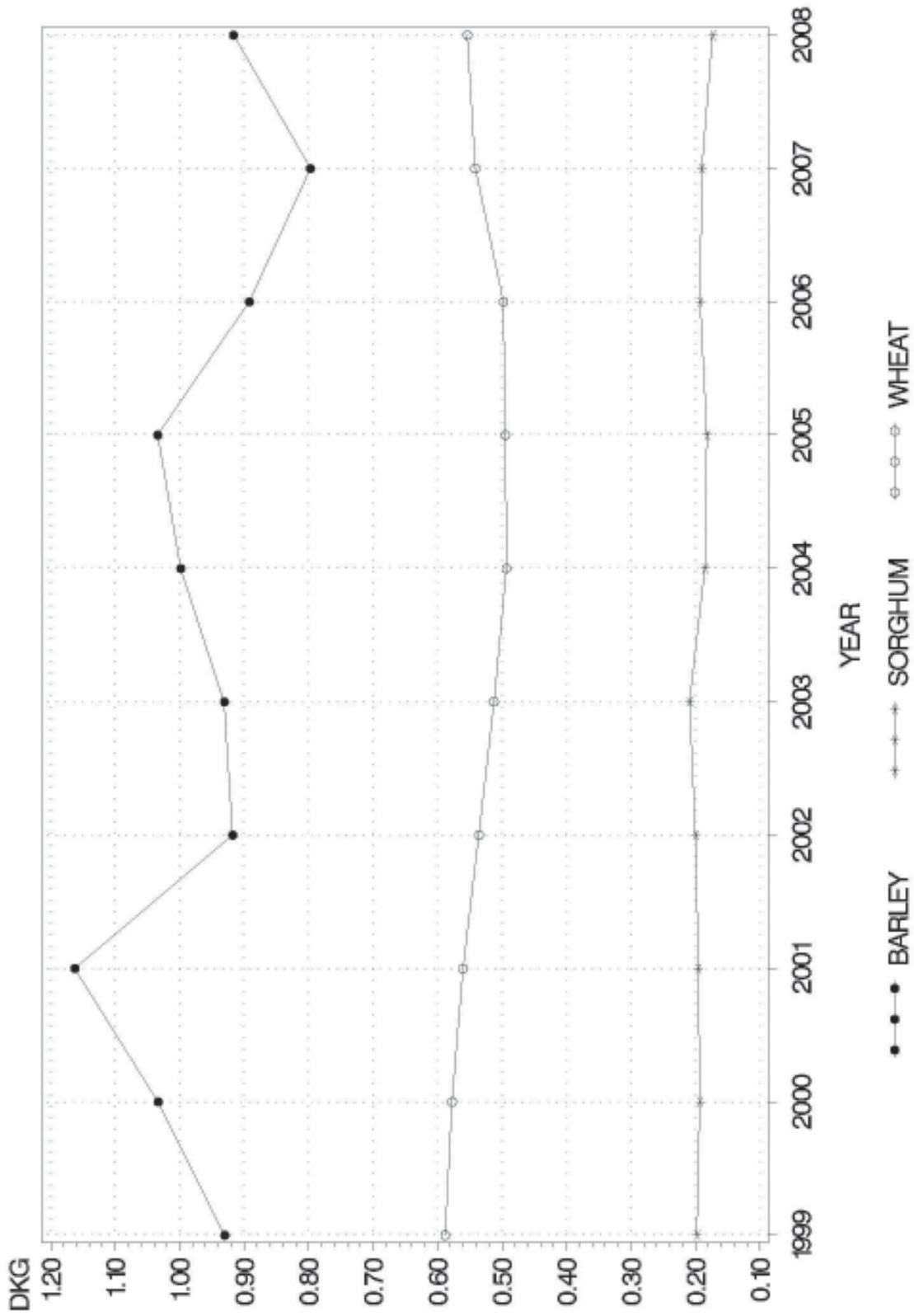
U.S. Grain Quantity Exported, 1999-2008	60
U.S. Grain Exported, 1999-2008, Average Dockage by Grain	61
U.S. Wheat Exported, 1999-2008, Average Dockage by Class	62
U.S. Wheat Exported, 1999-2008, Average Dockage by Destination Country	63
U.S. Wheat Exported, 1999-2008, Average Protein (12% Moisture) by Class	64
U.S. Soybeans Exported, 1999-2008, Average Protein and Oil (13% Moisture)	65
U.S. Grains Exported, 1999-2008, Average FM, BNF, and BCFM	66

U.S. GRAIN QUANTITY EXPORTED, 1999—2008
 METRIC TONS IN MILLIONS



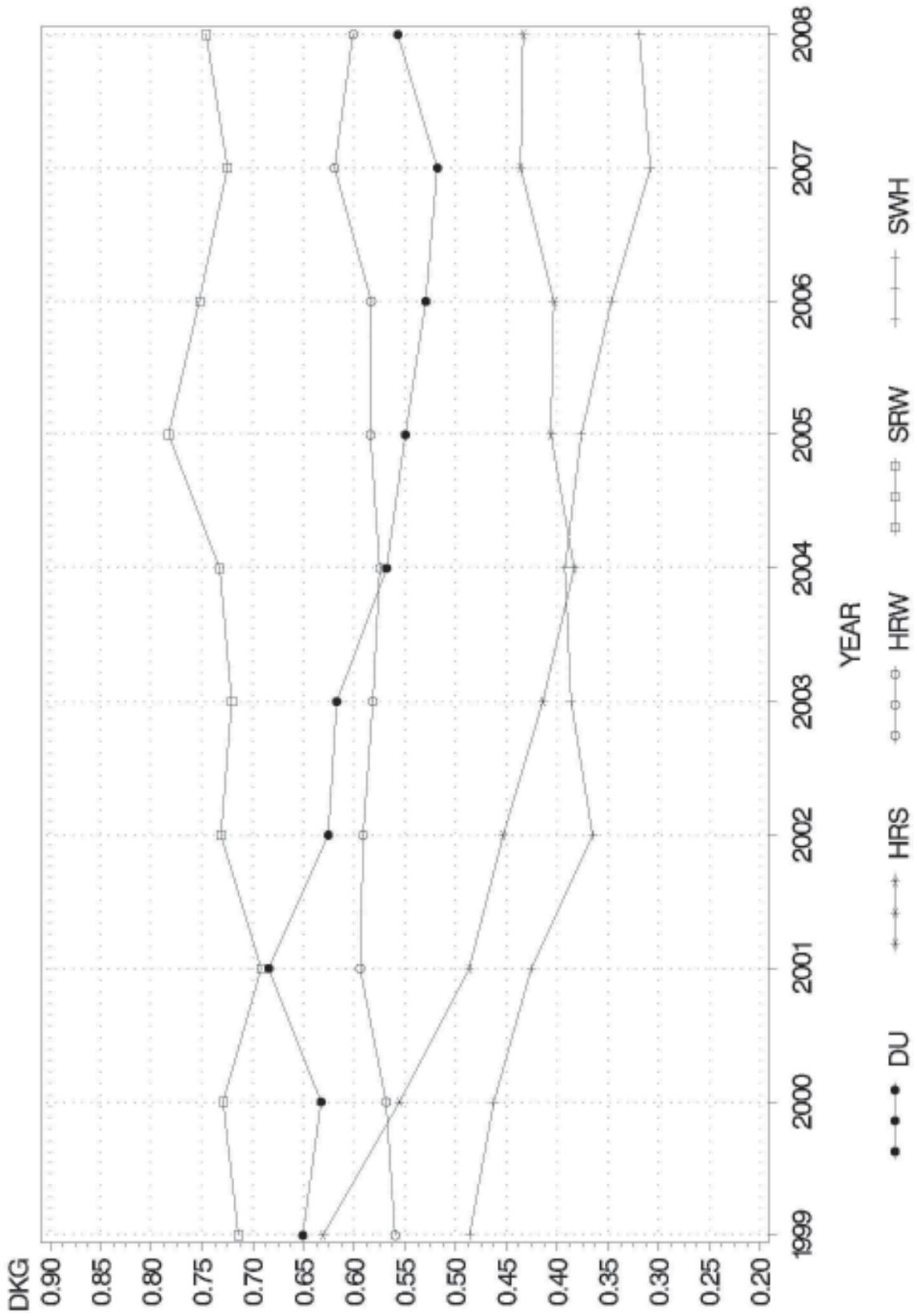
U.S. GRAIN EXPORTED, 1999—2008

AVG DOCKAGE BY GRAIN



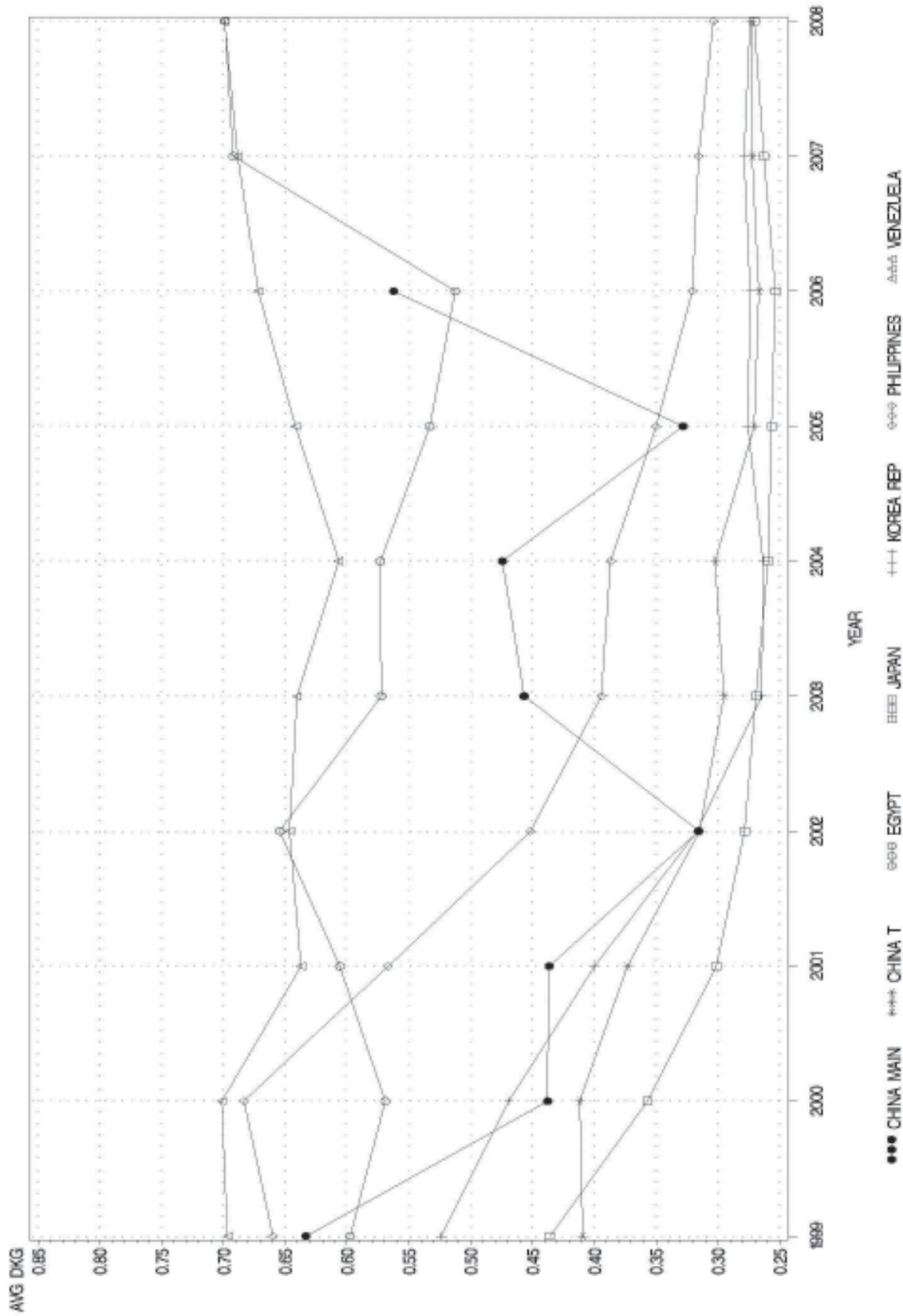
U.S. WHEAT EXPORTED, 1999—2008

AVG DOCKAGE BY CLASS

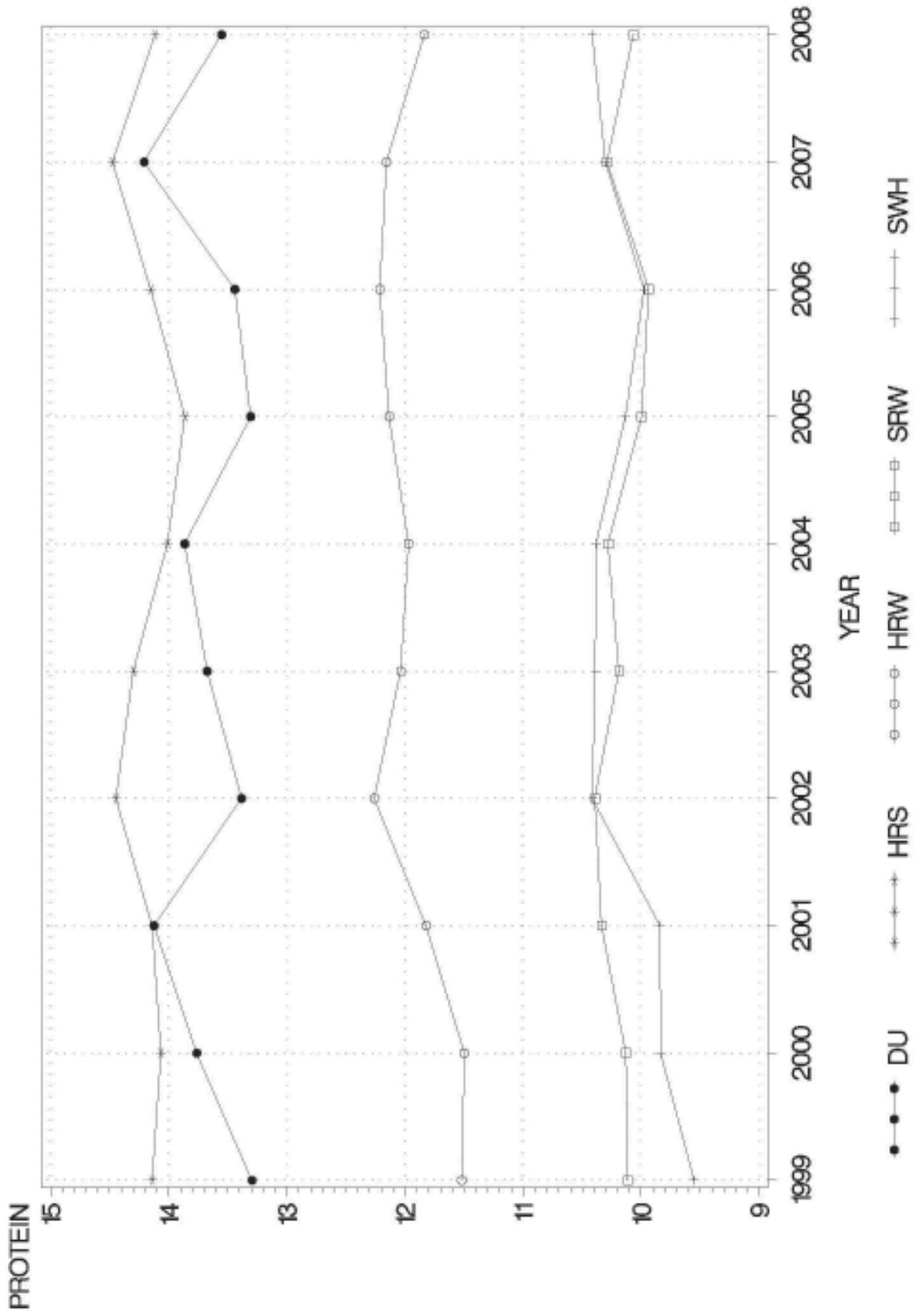


U.S. WHEAT EXPORTED, 1998–2008

AVG DOCKAGE BY DESTINATION COUNTRY

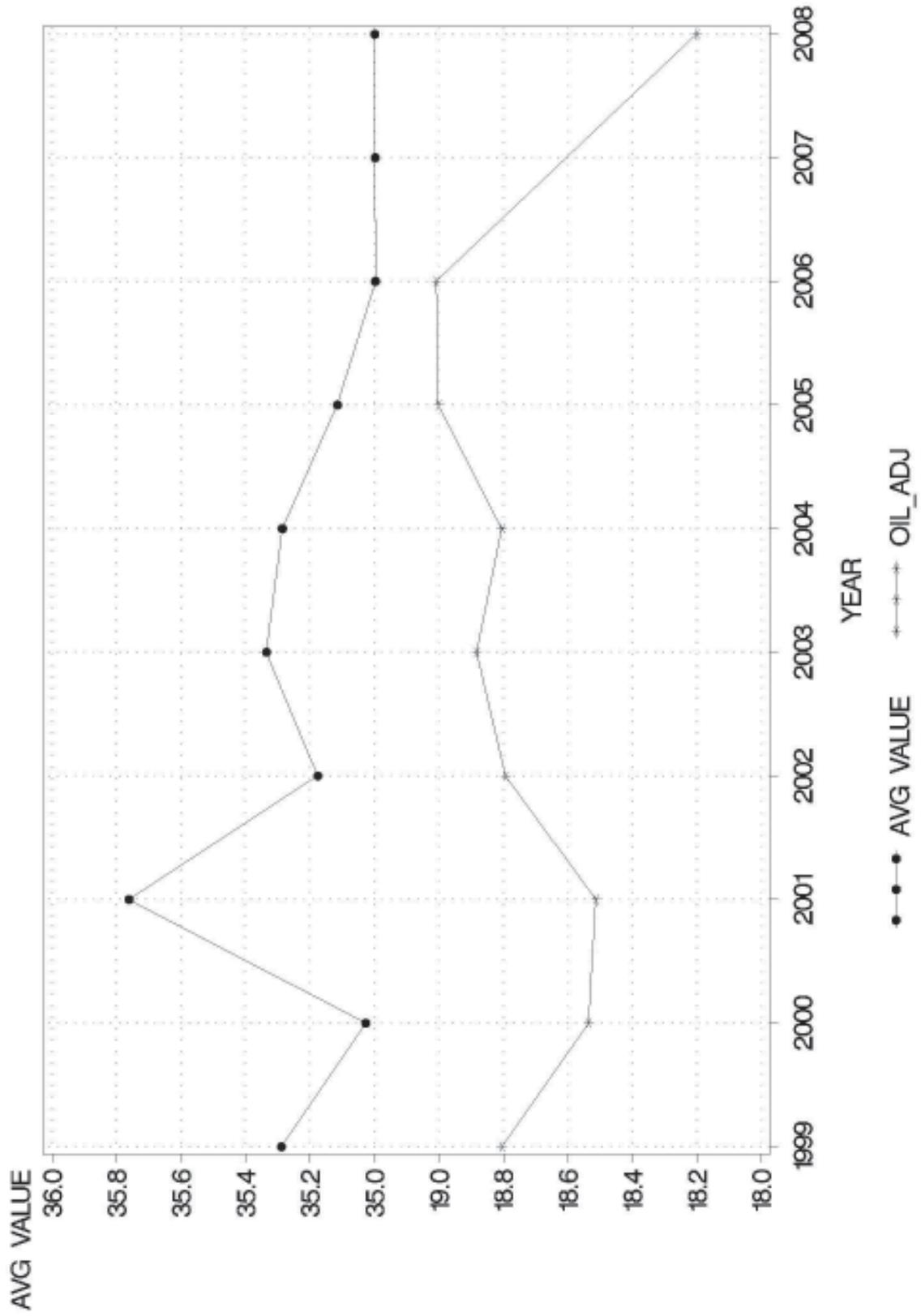


U.S. WHEAT EXPORTED, 1999—2008
AVG PROTEIN(12% M) BY CLASS



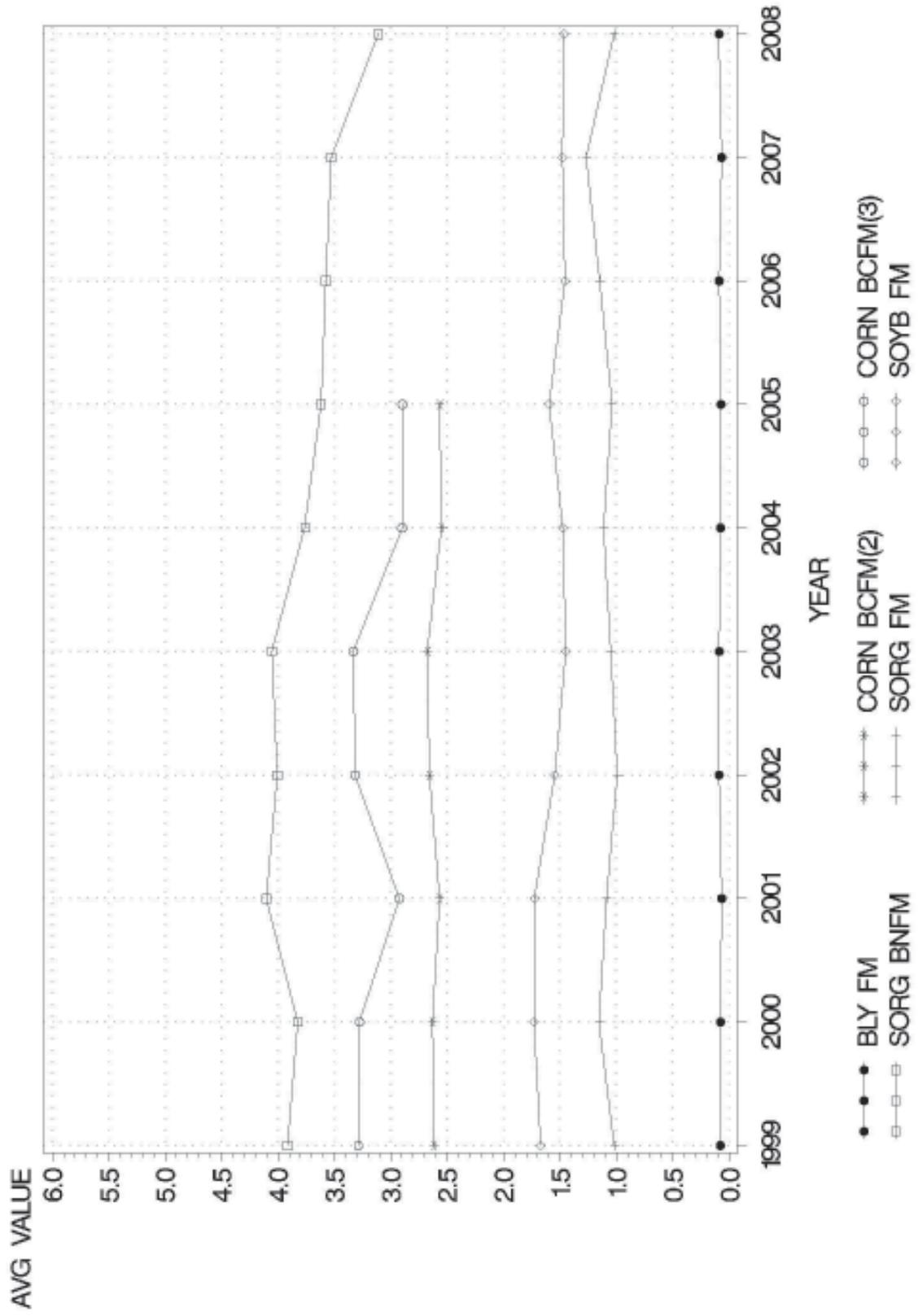
U.S. SOYBEANS EXPORTED, 1999–2008

AVG PROTEIN AND OIL (13% M)



U.S. GRAINS EXPORTED, 1999—2008

AVG FM BNFM BCFM



Index of Tables

Table 1	U.S. Wheat Exports: Number of lots and quantity exported by class and grade, 2006-2008.	5	Table 11	Summary of export White corn quality, 2006-2008.	36
Table 2	Summary of export Hard Red Winter wheat quality, 2006-2008.	7	Table 12	U.S. Soybean Exports: Number of lots and quantity exported by class and grade, 2006-2008.	40
Table 3	Summary of export Hard Red Spring wheat quality, 2006-2008.	11	Table 13	Summary of export Soybean quality, 2006-2008.	41
Table 4	Summary of export Soft Red Winter wheat quality, factor averages by grade, 2006-2008.	15	Table 14	U.S. Sorghum Exports: Number of lots and quantity exported by class and grade, 2006-2008.	47
Table 5	Summary of export Durum wheat quality, factor averages by grade, 2006-2008.	19	Table 15	Summary of export Sorghum quality, 2006-2008.	48
Table 6	Summary of export Soft White wheat quality, factor averages by grade, 2006-2008.	24	Table 16	U.S. Barley Exports: Number of lots and quantity exported by class and grade, 2006-2008.	54
Table 7	Summary of export Hard White wheat quality, 2006-2008.	28	Table 17	Summary of export Barley quality, 2006-2008.	55
Table 8	Summary of export Mixed wheat quality, 2006-2008.	30	Table 18	U.S. Canola Exports: Number of lots and quantity exported by class and grade, 2006-2008.	57
Table 9	U.S. Corn Exports: Number of lots and quantity exported by class and grade, 2006-2008.	33	Table 19	Summary of export Canola quality, 2006-2008.	58
Table 10	Summary of export Yellow corn quality, 2006-2008.	34	Table 20	U.S. Flaxseed Exports: Number of Lots and quantity exported by class and grade, 2006-2008.	61
			Table 21	Summary of export Flaxseed quality, 2006-2008.	61

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.