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#### Introduction

The 2009 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 2009 report is the twenty-sixth edition of this annual summary of export grain quality. The report summarizes the quality of export wheat, corn, soybeans, sorghum, barley, canola, and flaxseed. 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 was used. Waterborne export shipments represented 90 percent of the total export lots in the EGIS database for 2009. 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 to the right are the equations for converting the approximate quantity of grain from metric tons to bushels.

	Conversi	ion Equation	
Bushels =		ons x 2204.622 Pounds Weight/Bushel of Grain	
Leg		ights Per Bushel ific Grains	
Wheat	=	60 pounds/bushel	
Corn =		56 pounds/bushel	
Soybea	ns =	60 pounds/bushel	
Canola	=	50 pounds/bushel	
Sorghui	<b>m</b> =	56 pounds/bushel	
Barley =	=	48 pounds/bushel	
Sunflov	ver Seed =	28 pounds/bushel	
Rye =		56 pounds/bushel	
Oats =		32 pounds/bushel	

### 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

	Minimum	Limits of:			Ma	ximum Limit	ts of -		
	Test Weight	t per bushel	Damaged	d Kernels				Wheat of oth	ner classes <u>4</u> /
	Hard Red		Heat						
	Spring Wheat	All other	damage			Shrunken			
	or White Club	classes and	(part of		Foreign	and broken		Contrasting	
	Wheat <u>1</u> /	subclasses	total)	Total <b>2</b> /	material	kernels	Defects 3/	classes	Total <u>5</u> /
Grade	(pounds)	(pounds)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(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:

- (a) Does not meet the requirements for grades U.S. No. 1, 2, 3, 4, or 5; or
- (b) 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 (Rincinus 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 per 1,000 grams of wheat; or
- (c) Contains 5 or more animal filth, castor beans, crotalaria seeds, glass, stones, or unknown foreign substance(s) in any combination; or
- (d) Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor); or
- (e) Is heating or otherwise of distinctly low quality.
- (f) Contains more than 31 insect-damaged kernels in 100 grams.
- 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/ Includes damaged kernels (total), foreign material, shrunken and broken kernels.
- **4/** Unclassed wheat of any grade may contain not more than 10.0 percent of wheat of other classes.
- **<u>5</u>**/ 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, 2007-2009

	_	2	007	2	800	2009			
		No. of	Metric	No. of	Metric	No. of	Metric		
Class	Grade	Lots	Tons	Lots	Tons	Lots	Tons		
Hard Red	U.S. No. 1	79	559,364	65	516,065	66	553,185		
Winter Wheat	U.S. No. 2	643	10,897,995	671	12,740,901	522	7,346,859		
	U.S. No. 3	1	2,750	8	94,776	3	12,471		
	Not Inspected	1	25,136	2	21,419				
	All lots	724	11,485,245	746	13,373,161	591	7,912,515		
Hard Red	U.S. No. 1	130	1,474,784	85	911,258	80	892,620		
Spring Wheat	U.S. No. 2	467	6,077,029	405	5,037,709	382	4,141,811		
	U.S. No. 3	2	15,921	1	4,100				
	U.S. No. 4					1	1,636		
	Not Inspected	1	3,971	1	25,365	2	29,566		
	All lots	600	7,571,705	492	5,978,432	465	5,065,633		
Soft Red	U.S. No. 1			1	4,094				
Winter Wheat	U.S. No. 2	405	5,754,081	309	4,542,990	262	2,877,143		
	U.S. No. 3	6	40,641	8	61,375	24	175,993		
	Not inspected					3	35,212		
	All lots	411	5,794,722	318	4,608,459	289	3,088,348		
Durum Wheat	U.S. No. 1	61	639,101	42	389,552	54	616,969		
	U.S. No. 2	39	387,605	20	172,864	25	192,711		
	U.S. No. 3	1	17,931	5	17,184	2	33,179		
	U.S. No. 4			3	7,903				
	U.S. Sample Grade	2	3412			1	9,117		
	All lots	103	1,048,049	70	587,503	82	851,976		
Soft White	U.S. No. 1	144	754,196	126	701,876	110	653,765		
Wheat	U.S. No. 2	210	4,042,509	151	2,660,816	197	3,407,776		
	U.S. No. 3			1	7,875				
	All lots	354	4,796,705	278	3,370,567	307	4,061,541		
Hard White	U.S. No. 1	6	33,500	5	21,107				
Wheat	U.S. No. 2			4	90,309	1	9,918		
	U.S. No. 4			3	18,281	12	103,960		
	All lots	6	33,500	12	129,697	13	113,878		

<sup>-- =</sup> No lots reported in the category.

Table 1. U.S. Wheat Exports: Number of lots and quantity exported by class and grade, 2007-2009, continued

	_	2	007	2	800	2	009
	_	No. of	Metric	No. of	Metric	No. of	Metric
Class	Grade	Lots	Tons	Lots	Tons	Lots	Tons
Mixed Wheat	U.S. No 2			6	24,294	1	3,003
	All lots			6	24,294	1	3,003
All Classes	U.S. No. 1	420	3,460,945	324	2,543,952	310	2,716,539
	U.S. No. 2	1,764	27,159,219	1,566	25,269,883	1,390	17,979,221
	U.S. No. 3	10	77,243	23	185,310	29	221,643
	U.S. No. 4			6	26,184	13	105,596
	U.S. Sample Grade	2	3412			3	35,212
	Not Inspected	2	29,107	3	46,784	3	38,683
	All lots	2,198	30,729,926	1,922	28,072,113	1,748	21,096,894

<sup>-- =</sup> No lots reported in the category.

Table 2. Summary of export Hard Red Winter wheat quality, 2007-2009

				200	7			200	8		2009				
		Grade	No. of				No. of				No. of				
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High	
Test Weight	U.S. No. 1	60.0	79	62.4	60.2	63.9	65	62.0	60.5	63.7	66	61.7	60.5	62.9	
(lb/bu)	U.S. No. 2	58.0	643	61.0	58.0	64.6	671	60.7	58.2	64.0	522	60.7	58.1	63.7	
	U.S. No. 3	56.0	1	59.0	59.0	59.0	8	59.1	58.2	61.2	3	59.8	59.5	61.0	
	All lots	N/A	723	61.1	58.0	64.6	744	60.7	58.2	64.0	591	60.8	58.1	63.7	
Test Weight	U.S. No. 1	N/A	79	82.0	79.2	84.0	65	81.5	79.6	83.7	66	81.1	79.5	82.7	
(kg/hl)	U.S. No. 2	N/A	643	80.3	76.4	84.9	671	79.8	76.6	84.1	522	79.9	76.5	83.7	
	U.S. No. 3	N/A	1	77.6	77.6	77.6	8	77.8	76.6	80.5	3	78.6	78.3	80.2	
	All lots	N/A	723	80.3	76.4	84.9	744	79.8	76.6	84.1	591	80.0	76.5	83.7	
Moisture	U.S. No. 1	N/A	79	9.4	8.2	11.6	65	9.9	8.6	11.8	66	10.6	9.2	12.4	
	U.S. No. 2	N/A	643	11.2	8.4	12.9	671	11.4	8.8	12.8	522	11.3	9.0	13.1	
	U.S. No. 3	N/A	1	12.3	12.3	12.3	8	12.0	11.8	12.5	3	11.8	11.5	13.3	
	All lots	N/A	723	11.2	8.2	12.9	744	11.4	8.6	12.8	591	11.2	9.0	13.3	
Heat-damaged	U.S. No. 1	0.2	79	0.0	0.0	0.0	65	0.0	0.0	0.1	66	0.0	0.0	0.0	
Kernels	U.S. No. 2	0.2	643	0.0	0.0	0.2	671	0.0	0.0	0.2	522	0.0	0.0	0.1	
	U.S. No. 3	0.5	1	0.0	0.0	0.0	8	0.0	0.0	0.0	3	0.0	0.0	0.0	
	All lots	N/A	723	0.0	0.0	0.2	744	0.0	0.0	0.2	591	0.0	0.0	0.1	
Damaged	U.S. No. 1	2.0	79	0.1	0.0	0.4	65	0.2	0.0	0.7	66	0.2	0.0	1.0	
Kernels	U.S. No. 2	4.0	643	1.0	0.0	3.0	671	1.2	0.0	3.2	522	1.0	0.0	3.6	
(Total)	U.S. No. 3	7.0	1	1.1	1.1	1.1	8	2.5	1.5	3.8	3	1.2	0.7	1.3	
	All lots	N/A	723	0.9	0.0	3.0	744	1.1	0.0	3.8	591	0.9	0.0	3.6	
Foreign	U.S. No. 1	0.4	79	0.1	0.0	0.3	65	0.1	0.0	0.2	66	0.1	0.0	0.3	
Material	U.S. No. 2	0.7	643	0.2	0.0	0.7	671	0.2	0.0	0.7	522	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	3	0.5	0.1	0.6	
	All lots	N/A	723	0.2	0.0	0.7	744	0.2	0.0	1.0	591	0.2	0.0	0.7	
Shrunken and	U.S. No. 1	3.0	79	1.4	0.5	2.6	65	1.6	0.7	2.2	66	1.5	0.7	2.5	
Broken	U.S. No. 2	5.0	643	1.6	0.9	2.6	671	1.6	0.5	2.9	522	1.5	0.3	2.5	
	U.S. No. 3	8.0	1	1.8	1.8	1.8	8	2.2	1.7	2.7	3	1.4	0.6	1.6	
	All lots	N/A	723	1.6	0.5	2.6	744	1.6	0.5	2.9	591	1.5	0.3	2.5	
Total Defects <sup>1</sup>	U.S. No. 1	3.0	79	1.6	0.6	2.7	65	1.8	0.9	2.8	66	1.8	0.8	2.6	
	U.S. No. 2	5.0	643	2.7	1.0	4.9	671	2.9	0.8	5.0	522	2.7	0.8	5.0	
	U.S. No. 3	8.0	1	3.1	3.1	3.1	8	5.2	3.9	6.5	3	3.1	1.4	3.5	
	All lots	N/A	723	2.7	0.6	4.9	744	2.9	0.8	6.5	591	2.6	0.8	5.0	

Table 2. Summary of export Hard Red Winter wheat quality, 2007-2009, continued

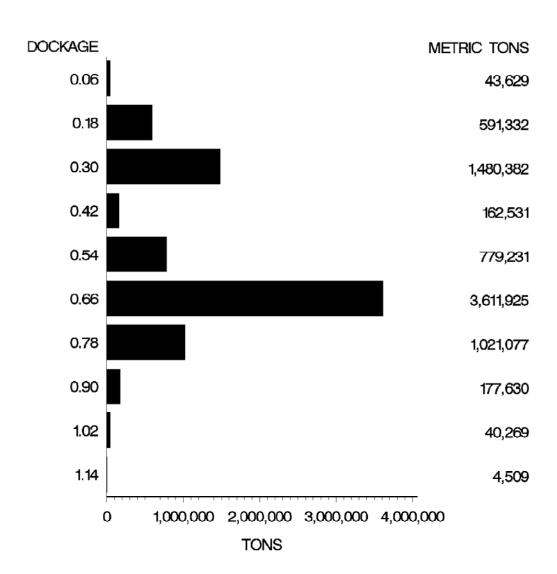
			200	"			200	0			200	כו	
	Grade	No. of				No. of				No. of			
Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
U.S. No. 1	N/A	79	0.3	0.1	0.3	65	0.3	0.2	0.3	66	0.3	0.1	0.3
U.S. No. 2	N/A	643	0.6	0.1	1.0	671	0.6	0.1	1.4	522	0.6	0.1	1.1
U.S. No. 3	N/A	1	0.6	0.6	0.6	8	0.8	0.6	0.9	3	0.7	0.7	0.7
All lots	N/A	723	0.6	0.1	1.0	744	0.6	0.1	1.4	591	0.5	0.1	1.1
U.S. No. 1	3.0	79	0.7	0.0	2.6	65	0.9	0.0	2.3	66	0.6	0.1	1.9
U.S. No. 2	5.0	643	1.3	0.0	4.8	671	1.7	0.0	4.7	522	1.5	0.0	4.5
U.S. No. 3	10.0	1	0.6	0.6	0.6	8	2.0	0.6	3.4	3	5.3	5.2	5.4
All lots	N/A	723	1.3	0.0	4.8	744	1.6	0.0	4.7	591	1.4	0.0	5.4
U.S. No. 1	1.0	79	0.3	0.0	0.9	65	0.3	0.0	0.9	66	0.3	0.0	1.0
U.S. No. 2	2.0	643	0.1	0.0	1.3	671	0.1	0.0	1.6	522	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	3	0.0	0.0	0.0
All lots	N/A	723	0.1	0.0	1.3	744	0.1	0.0	1.6	591	0.1	0.0	1.6
U.S. No. 1	N/A	79	12.8	11.7	13.8	65	12.4	11.5	14.1	66	12.6	11.6	13.3
U.S. No. 2	N/A	637	12.2	10.2	15.4	668	11.9	10.2	13.6	522	12.0	10.6	14.4
U.S. No. 3	N/A	1	11.7	11.7	11.7	8	11.7	11.4	11.9	3	12.1	11.5	12.2
All lots	N/A	717	12.3	10.2	15.4	741	11.9	10.2	14.1	591	12.0	10.6	14.4
U.S. No. 1	N/A	79	12.4	11.5	13.4	65	12.2	11.5	13.7	66	12.4	11.5	13.1
) U.S. No. 2	N/A	637	12.1	9.9	15.1	668	11.8	10.2	13.3	522	11.9	10.5	14.4
U.S. No. 3	N/A	1	11.7	11.7	11.7	8	11.7	11.4	11.9	3	12.0	11.7	12.1
All lots	N/A	717	2.2	9.9	15.1	741	11.8	10.2	13.7	591	11.9	10.5	14.4
	U.S. No. 1 U.S. No. 2 U.S. No. 3 All lots  U.S. No. 1 U.S. No. 2 U.S. No. 3 All lots  U.S. No. 1 U.S. No. 2 U.S. No. 3 All lots  U.S. No. 3 All lots  U.S. No. 1 U.S. No. 2 U.S. No. 3 All lots  U.S. No. 1 U.S. No. 2 U.S. No. 3 All lots	Grade Limit  U.S. No. 1 N/A  U.S. No. 2 N/A  U.S. No. 3 N/A  All lots N/A  U.S. No. 1 3.0  U.S. No. 2 5.0  U.S. No. 3 10.0  All lots N/A  U.S. No. 1 1.0  U.S. No. 1 2.0  U.S. No. 2 2.0  U.S. No. 3 3.0  All lots N/A  U.S. No. 1 N/A  U.S. No. 3 N/A  U.S. No. 1 N/A  U.S. No. 1 N/A  U.S. No. 1 N/A  U.S. No. 2 N/A  U.S. No. 3 N/A  All lots N/A	Grade         Limit         Lots           U.S. No. 1         N/A         79           U.S. No. 2         N/A         643           U.S. No. 3         N/A         1           All lots         N/A         723           U.S. No. 1         3.0         79           U.S. No. 2         5.0         643           U.S. No. 3         10.0         1           All lots         N/A         723           U.S. No. 1         1.0         79           U.S. No. 2         2.0         643           U.S. No. 3         3.0         1           All lots         N/A         723           U.S. No. 3         N/A         637           U.S. No. 1         N/A         79           U.S. No. 3         N/A         1           All lots         N/A         717           U.S. No. 1         N/A         79           U.S. No. 2         N/A         637           U.S. No. 3         N/A         1           U.S. No. 3         N/A         1	Grade         Limit         Lots         Avg.           U.S. No. 1         N/A         79         0.3           U.S. No. 2         N/A         643         0.6           U.S. No. 3         N/A         1         0.6           All lots         N/A         723         0.6           U.S. No. 1         3.0         79         0.7           U.S. No. 2         5.0         643         1.3           U.S. No. 3         10.0         1         0.6           All lots         N/A         723         1.3           U.S. No. 1         1.0         79         0.3           U.S. No. 2         2.0         643         0.1           U.S. No. 3         3.0         1         0.0           All lots         N/A         723         0.1           U.S. No. 1         N/A         79         12.8           U.S. No. 2         N/A         637         12.2           U.S. No. 1         N/A         79         12.4           D.S. No. 1         N/A         79         12.4           D.S. No. 2         N/A         637         12.1           D.S. No. 3         N/A         637 <td>Grade         Limit         Lots         Avg.         Low           U.S. No. 1         N/A         79         0.3         0.1           U.S. No. 2         N/A         643         0.6         0.1           U.S. No. 3         N/A         1         0.6         0.6           All lots         N/A         723         0.6         0.1           U.S. No. 1         3.0         79         0.7         0.0           U.S. No. 2         5.0         643         1.3         0.0           U.S. No. 3         10.0         1         0.6         0.6           All lots         N/A         723         1.3         0.0           U.S. No. 1         1.0         79         0.3         0.0           U.S. No. 2         2.0         643         0.1         0.0           U.S. No. 3         3.0         1         0.0         0.0           U.S. No. 1         N/A         79         12.8         11.7           U.S. No. 2         N/A         637         12.2         10.2           U.S. No. 1         N/A         79         12.4         11.5           U.S. No. 1         N/A         79         <t< td=""><td>Grade         Limit         Lots         Avg.         Low         High           US. No. 1         N/A         79         0.3         0.1         0.3           US. No. 2         N/A         643         0.6         0.1         1.0           US. No. 3         N/A         1         0.6         0.6         0.6           All lots         N/A         723         0.6         0.1         1.0           US. No. 1         3.0         79         0.7         0.0         2.6           US. No. 2         5.0         643         1.3         0.0         4.8           US. No. 3         10.0         1         0.6         0.6         0.6           All lots         N/A         723         1.3         0.0         4.8           US. No. 1         1.0         79         0.3         0.0         0.6           US. No. 2         2.0         643         0.1         0.0         1.3           US. No. 3         3.0         1         0.0         0.0         0.0           All lots         N/A         723         0.1         0.0         1.3           US. No. 1         N/A         79         12</td><td>Grade         Limit         Lots         Avg.         Low         High         Lots           US. No. 1         N/A         79         0.3         0.1         0.3         65           US. No. 2         N/A         643         0.6         0.1         1.0         671           US. No. 3         N/A         1         0.6         0.6         0.6         8           All lots         N/A         723         0.6         0.1         1.0         744           US. No. 1         3.0         79         0.7         0.0         2.6         65           US. No. 2         5.0         643         1.3         0.0         4.8         671           US. No. 3         10.0         1         0.6         0.6         0.6         8           All lots         N/A         723         1.3         0.0         4.8         744           US. No. 1         1.0         79         0.3         0.0         0.9         65           US. No. 2         2.0         643         0.1         0.0         1.3         671           US. No. 3         3.0         1         0.0         0.0         0.0         8     </td></t<><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8           All lots         N/A         723         0.6         0.1         1.0         744         0.6           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0           All lots         N/A         723         1.3         0.0         0.9         65         0.3           U.S. No. 1         1.0         79         0.3         0.0         0.9         65         0.3           U.S. No. 2         2.0         643         0.1         0.0</td><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6           All lots         N/A         723         1.3         0.0         0.9         65         0.3         0.0           U.S. No. 2         2.0         643         0.1         0.0</td><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3           U.S. No. 2         N/A         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         723         0.6         0.1         1.0         744         0.6         0.1         1.4           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7           U.S. No. 1         1.0         79         0.3         0.0         0.9         65         0.3         0.0         0.9           U.S. No. 2         2.0         643         0.1         0.0         1.3         671</td><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3         66           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         522           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6         3.4         3</td><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66         0.3           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522         0.6           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3         0.7           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591         0.5           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3         66         0.6           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         591         1.5           <td< td=""><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.         Low           US. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66         0.3         0.1           US. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522         0.6         0.1           US. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3         0.7         0.7           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591         0.5         0.1           US. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         522         1.5         0.0           US. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6         3.4         3         5.3</td></td<></td></td>	Grade         Limit         Lots         Avg.         Low           U.S. No. 1         N/A         79         0.3         0.1           U.S. No. 2         N/A         643         0.6         0.1           U.S. No. 3         N/A         1         0.6         0.6           All lots         N/A         723         0.6         0.1           U.S. No. 1         3.0         79         0.7         0.0           U.S. No. 2         5.0         643         1.3         0.0           U.S. No. 3         10.0         1         0.6         0.6           All lots         N/A         723         1.3         0.0           U.S. No. 1         1.0         79         0.3         0.0           U.S. No. 2         2.0         643         0.1         0.0           U.S. No. 3         3.0         1         0.0         0.0           U.S. No. 1         N/A         79         12.8         11.7           U.S. No. 2         N/A         637         12.2         10.2           U.S. No. 1         N/A         79         12.4         11.5           U.S. No. 1         N/A         79 <t< td=""><td>Grade         Limit         Lots         Avg.         Low         High           US. No. 1         N/A         79         0.3         0.1         0.3           US. No. 2         N/A         643         0.6         0.1         1.0           US. No. 3         N/A         1         0.6         0.6         0.6           All lots         N/A         723         0.6         0.1         1.0           US. No. 1         3.0         79         0.7         0.0         2.6           US. No. 2         5.0         643         1.3         0.0         4.8           US. No. 3         10.0         1         0.6         0.6         0.6           All lots         N/A         723         1.3         0.0         4.8           US. No. 1         1.0         79         0.3         0.0         0.6           US. No. 2         2.0         643         0.1         0.0         1.3           US. No. 3         3.0         1         0.0         0.0         0.0           All lots         N/A         723         0.1         0.0         1.3           US. No. 1         N/A         79         12</td><td>Grade         Limit         Lots         Avg.         Low         High         Lots           US. No. 1         N/A         79         0.3         0.1         0.3         65           US. No. 2         N/A         643         0.6         0.1         1.0         671           US. No. 3         N/A         1         0.6         0.6         0.6         8           All lots         N/A         723         0.6         0.1         1.0         744           US. No. 1         3.0         79         0.7         0.0         2.6         65           US. No. 2         5.0         643         1.3         0.0         4.8         671           US. No. 3         10.0         1         0.6         0.6         0.6         8           All lots         N/A         723         1.3         0.0         4.8         744           US. No. 1         1.0         79         0.3         0.0         0.9         65           US. No. 2         2.0         643         0.1         0.0         1.3         671           US. No. 3         3.0         1         0.0         0.0         0.0         8     </td></t<> <td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8           All lots         N/A         723         0.6         0.1         1.0         744         0.6           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0           All lots         N/A         723         1.3         0.0         0.9         65         0.3           U.S. No. 1         1.0         79         0.3         0.0         0.9         65         0.3           U.S. No. 2         2.0         643         0.1         0.0</td> <td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6           All lots         N/A         723         1.3         0.0         0.9         65         0.3         0.0           U.S. No. 2         2.0         643         0.1         0.0</td> <td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3           U.S. No. 2         N/A         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         723         0.6         0.1         1.0         744         0.6         0.1         1.4           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7           U.S. No. 1         1.0         79         0.3         0.0         0.9         65         0.3         0.0         0.9           U.S. No. 2         2.0         643         0.1         0.0         1.3         671</td> <td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3         66           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         522           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6         3.4         3</td> <td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66         0.3           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522         0.6           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3         0.7           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591         0.5           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3         66         0.6           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         591         1.5           <td< td=""><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.         Low           US. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66         0.3         0.1           US. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522         0.6         0.1           US. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3         0.7         0.7           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591         0.5         0.1           US. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         522         1.5         0.0           US. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6         3.4         3         5.3</td></td<></td>	Grade         Limit         Lots         Avg.         Low         High           US. No. 1         N/A         79         0.3         0.1         0.3           US. No. 2         N/A         643         0.6         0.1         1.0           US. No. 3         N/A         1         0.6         0.6         0.6           All lots         N/A         723         0.6         0.1         1.0           US. No. 1         3.0         79         0.7         0.0         2.6           US. No. 2         5.0         643         1.3         0.0         4.8           US. No. 3         10.0         1         0.6         0.6         0.6           All lots         N/A         723         1.3         0.0         4.8           US. No. 1         1.0         79         0.3         0.0         0.6           US. No. 2         2.0         643         0.1         0.0         1.3           US. No. 3         3.0         1         0.0         0.0         0.0           All lots         N/A         723         0.1         0.0         1.3           US. No. 1         N/A         79         12	Grade         Limit         Lots         Avg.         Low         High         Lots           US. No. 1         N/A         79         0.3         0.1         0.3         65           US. No. 2         N/A         643         0.6         0.1         1.0         671           US. No. 3         N/A         1         0.6         0.6         0.6         8           All lots         N/A         723         0.6         0.1         1.0         744           US. No. 1         3.0         79         0.7         0.0         2.6         65           US. No. 2         5.0         643         1.3         0.0         4.8         671           US. No. 3         10.0         1         0.6         0.6         0.6         8           All lots         N/A         723         1.3         0.0         4.8         744           US. No. 1         1.0         79         0.3         0.0         0.9         65           US. No. 2         2.0         643         0.1         0.0         1.3         671           US. No. 3         3.0         1         0.0         0.0         0.0         8	Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8           All lots         N/A         723         0.6         0.1         1.0         744         0.6           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0           All lots         N/A         723         1.3         0.0         0.9         65         0.3           U.S. No. 1         1.0         79         0.3         0.0         0.9         65         0.3           U.S. No. 2         2.0         643         0.1         0.0	Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6           All lots         N/A         723         1.3         0.0         0.9         65         0.3         0.0           U.S. No. 2         2.0         643         0.1         0.0	Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3           U.S. No. 2         N/A         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         723         0.6         0.1         1.0         744         0.6         0.1         1.4           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7           U.S. No. 1         1.0         79         0.3         0.0         0.9         65         0.3         0.0         0.9           U.S. No. 2         2.0         643         0.1         0.0         1.3         671	Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3         66           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         522           U.S. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6         3.4         3	Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.           U.S. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66         0.3           U.S. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522         0.6           U.S. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3         0.7           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591         0.5           U.S. No. 1         3.0         79         0.7         0.0         2.6         65         0.9         0.0         2.3         66         0.6           U.S. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         591         1.5 <td< td=""><td>Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.         Low           US. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66         0.3         0.1           US. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522         0.6         0.1           US. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3         0.7         0.7           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591         0.5         0.1           US. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         522         1.5         0.0           US. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6         3.4         3         5.3</td></td<>	Grade         Limit         Lots         Avg.         Low         High         Lots         Avg.         Low         High         Lots         Avg.         Low           US. No. 1         N/A         79         0.3         0.1         0.3         65         0.3         0.2         0.3         66         0.3         0.1           US. No. 2         N/A         643         0.6         0.1         1.0         671         0.6         0.1         1.4         522         0.6         0.1           US. No. 3         N/A         1         0.6         0.6         0.6         8         0.8         0.6         0.9         3         0.7         0.7           All lots         N/A         723         0.6         0.1         1.0         744         0.6         0.1         1.4         591         0.5         0.1           US. No. 2         5.0         643         1.3         0.0         4.8         671         1.7         0.0         4.7         522         1.5         0.0           US. No. 3         10.0         1         0.6         0.6         0.6         8         2.0         0.6         3.4         3         5.3

N/A = Does not apply.

<sup>-- =</sup> No lots reported in this category.

 $<sup>^{1}\</sup>mathrm{The}\ \mathrm{sum}\ \mathrm{of}\ \mathrm{the}\ \mathrm{comp}\ \mathrm{onent}\ \mathrm{factor}\ \mathrm{averages}\ \mathrm{may}\ \mathrm{not}\ \mathrm{equal}\ \mathrm{the}\ \mathrm{average}\ \mathrm{for}\ \mathrm{this}\ \mathrm{factor}\ \mathrm{due}\ \mathrm{to}\ \mathrm{rounding}.$ 

# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR DOCKAGE - ALL GRADES HRW



### U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR PROTEIN (12% M) - ALL GRADES HRW

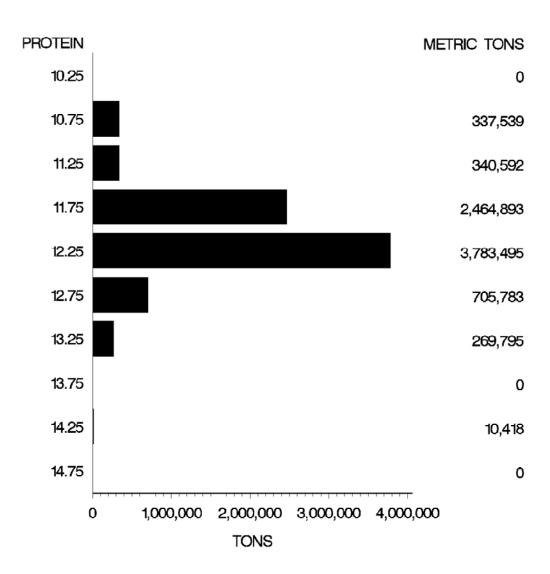


Table 3. Summary of export Hard Red Spring wheat quality, 2007-2009

				200	)7			200	)8 <u> </u>		2009				
		Grade	No. of				No. of				No. of				
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High	
Test Weight	U.S. No. 1	58.0	130	61.2	59.3	63.3	85	61.6	59.9	63.5	80	61.6	60.2	63.3	
(lb/bu)	U.S. No. 2	57.0	467	61.4	58.5	63.0	405	61.7	59.1	63.8	382	62.0	59.8	63.9	
	U.S. No. 3	55.0	2	61.6	61.3	61.9	1	61.4	61.4	61.4					
	U.S. No. 4	53.0									1	63	63	63	
	All lots	N/A	599	61.3	58.5	63.3	491	61.7	59.1	63.8	463	62.0	59.8	63.9	
Test Weight	U.S. No. 1	N/A	130	80.5	78.1	83.1	85	81.1	78.8	83.4	80	81.0	79.2	83.2	
(kg/hl)	U.S. No. 2	N/A	467	80.7	77.0	82.8	405	81.1	77.8	83.8	382	81.6	78.6	84.0	
	U.S. No. 3	N/A	2	81.0	80.6	81.4	1	80.7	80.7	80.7					
	U.S. No. 4	N/A									1	83	83	83	
	All lots	N/A	599	80.7	77.0	83.1	491	81.1	77.8	83.8	463	81.5	78.6	84.0	
Moisture	U.S. No. 1	N/A	130	11.5	8.2	13.5	85	11.4	8.9	13.1	80	11.3	9.8	13.3	
	U.S. No. 2	N/A	467	12.0	8.8	13.5	405	12.1	9.0	13.5	382	12.3	9.3	13.7	
	U.S. No. 3	N/A	2	13.0	12.9	13.0	1	12.8	12.8	12.8					
	U.S. No. 4	N/A									1	13	13	13	
	All lots	N/A	599	11.9	8.2	13.5	491	12.0	8.9	13.5	463	12.1	9.3	13.7	
Heat-damaged	U.S. No. 1	0.2	130	0.0	0.0	0.0	85	0.0	0.0	0.1	80	0.0	0.0	0.0	
Kernels	U.S. No. 2	0.2	467	0.0	0.0	0.2	405	0.0	0.0	0.1	382	0.0	0.0	0.2	
	U.S. No. 3	0.5	2	0.0	0.0	0.0	1	0.0	0.0	0.0					
	U.S. No. 4	1.0									1	0	0	0	
	All lots	N/A	599	0.0	0.0	0.2	491	0.0	0.0	0.1	463	0.0	0.0	0.2	
Damaged	U.S. No. 1	2.0	130	0.3	0.0	1.1	85	0.3	0.0	1.7	80	0.3	0.0	1.2	
Kernels	U.S. No. 2	4.0	467	0.7	0.0	2.6	405	0.6	0.0	3.4	382	0.6	0.0	2.8	
(Total)	U.S. No. 3	7.0	2	1.6	0.5	2.6	1	4.5	4.5	4.5					
	U.S. No. 4	10.0									1	1	1	1	
	All lots	N/A	599	0.6	0.0	2.6	491	0.6	0.0	4.5	463	0.6	0.0	2.8	
Foreign	U.S. No. 1	0.4	130	0.1	0.0	0.3	85	0.1	0.0	0.3	80	0.1	0.0	0.4	
Material	U.S. No. 2	0.7	467	0.1	0.0	0.5	405	0.1	0.0	0.5	382	0.1	0.0	0.5	
	U.S. No. 3	1.3	2	0.2	0.1	0.2	1	0.1	0.1	0.1					
	U.S. No. 4	3.0									1	0	0	0	
	All lots	N/A	599	0.1	0.0	0.5	491	0.1	0.0	0.5	463	0.1	0.0	0.5	
Shrunken and	U.S. No. 1	3.0	130	1.6	0.6	2.7	85	1.4	0.4	2.1	80	1.2	0.5	2.0	
Broken	U.S. No. 2	5.0	467	1.5	0.7	3.0	405	1.2	0.5	2.2	382	1.0	0.4	1.9	
	U.S. No. 3	8.0	2	1.3	1.1	1.5	1	1.4	1.4	1.4					
	U.S. No. 4	12.0									1	1	1	1	
	All lots	N/A	599	1.5	0.6	3.0	491	1.2	0.4	2.2	463	1.0	0.4	2.0	

Table 3. Summary of export Hard Red Spring wheat quality, 2007-2009, continued

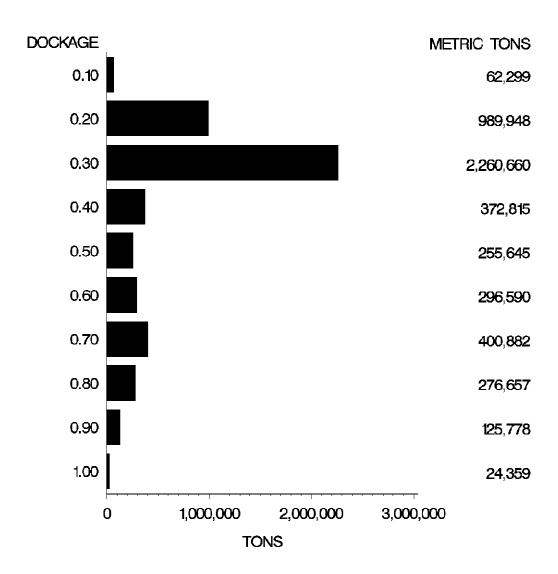
					200	)8		2009						
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Total Defects <sup>1</sup>	U.S. No. 1	3.0	130	2.1	1.1	3.0	85	1.8	0.5	2.9	80	1.5	0.0	2.7
	U.S. No. 2	5.0	467	2.3	1.2	4.3	405	1.9	0.7	5.0	382	1.7	0.0	4.0
	U.S. No. 3	8.0	2	3.1	2.1	3.9	1	6.0	6.0	6.0				
	U.S. No. 4	12.0									1	2	2	2
	All lots	N/A	599	2.3	1.1	4.3	491	1.9	0.5	6.0	463	1.7	0.0	4.0
Dockage	U.S. No. 1	N/A	129	0.3	0.2	0.9	85	0.3	0.2	0.8	80	0.3	0.1	0.7
	U.S. No. 2	N/A	467	0.5	0.1	1.0	405	0.5	0.2	1.9	382	0.4	0.1	1.0
	U.S. No. 3	N/A	2	0.4	0.3	0.5	1	0.5	0.5	0.5				
	U.S. No. 4	N/A									1	1	1	1
	All lots	N/A	598	0.4	0.1	1.0	491	0.4	0.2	1.9	463	0.4	0.1	1.0
Wheat of	U.S. No. 1	3.0	130	0.7	0.0	2.0	85	0.8	0.0	2.7	80	0.7	0.0	2.5
Other Classes	U.S. No. 2	5.0	467	1.0	0.0	4.3	405	1.0	0.0	4.7	382	0.8	0.0	5.0
	U.S. No. 3	10.0	2	0.9	0.0	1.7	1	4.1	4.1	4.1				
	U.S. No. 4	10.0									1	4	4	4
	All lots	N/A	599	0.9	0.0	4.3	491	1.0	0.0	4.7	463	0.8	0.0	5.0
Contrasting	U.S. No. 1	1.0	130	0.2	0.0	0.9	85	0.2	0.0	0.8	80	0.3	0.0	1.0
Classes	U.S. No. 2	2.0	467	0.2	0.0	1.9	405	0.2	0.0	1.4	382	0.2	0.0	1.6
	U.S. No. 3	3.0	2	0.3	0.0	0.5	1	0.1	0.1	0.1				
	U.S. No. 4	10.0									1	3	3	3
	All lots	N/A	599	0.2	0.0	1.9	491	0.2	0.0	1.4	463	0.2	0.0	3.4
Protein	U.S. No. 1	N/A	128	14.8	13.7	16.9	85	14.4	13.9	15.2	80	14.4	13.3	14.9
(as is basis)	U.S. No. 2	N/A	463	14.4	13.7	16.3	405	14.1	12.4	15.4	378	13.8	11.9	14.9
	U.S. No. 3	N/A	1	14.0	14.0	14.0	1	15.2	15.2	15.2				
	U.S. No. 4	N/A									1	12	12	12
	All lots	N/A	592	14.5	13.7	16.9	491	14.1	12.4	15.4	459	13.9	11.9	14.9
Protein	U.S. No. 1	N/A	128	14.7	13.8	16.7	85	14.3	14.0	15.2	80	14.2	13.5	14.8
(12% moisture)	U.S. No. 2	N/A	463	14.4	13.8	16.3	405	14.1	12.5	15.5	378	13.8	12.1	14.7
	U.S. No. 3	N/A	1	14.2	14.2	14.2	1	15.3	15.3	15.3				
	U.S. No. 4	N/A									1	13	13	13
	All lots	N/A	592	14.5	13.8	16.7	491	14.1	12.5	15.5	459	13.9	12.1	14.8

N/A = Does not apply.

 $<sup>{\</sup>mbox{--}}=\mbox{No lots reported in this category}\,.$ 

<sup>&</sup>lt;sup>1</sup>The sum of the component factor averages may not equal the average for this factor due to rounding.

# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR DOCKAGE - ALL GRADES HRS



# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR PROTEIN (12% M) - ALL GRADES HRS

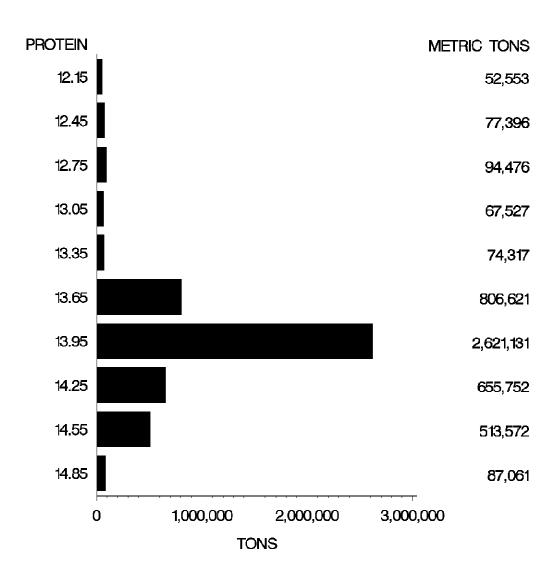


Table 4. Summary of export Soft Red Winter wheat quality, 2007-2009

				200	17			200	8		2009				
		Grade	No. of				No. of				No. of				
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High	
Test Weight	U.S. No. 1	60.0					1	60.1	60.1	60.1					
(lb/bu)	U.S. No. 2	58.0	405	59.9	58.0	61.9	309	59.8	0.0	62.9	262	58.9	58.0	60.6	
	U.S. No. 3	56.0	6	58.8	57.5	60.2	8	59.7	58.7	60.1	24	57.8	56.8	60.5	
U.S. Sa	ample Grade	N/A									3	58.9	58.7	59.1	
	All lots	N/A	411	59.9	57.5	61.9	318	59.8	0.0	62.9	289	58.8	56.8	60.6	
Test Weight	U.S. No. 1	N/A					1	79.1	79.1	79.1					
(kg/hl)	U.S. No. 2	N/A	405	78.8	76.4	81.4	309	78.7	1.4	82.7	262	77.5	76.3	79.7	
	U.S. No. 3	N/A	6	77.4	75.7	79.2	8	78.6	77.3	79.1	24	76.1	74.8	79.6	
U.S. Sa	ample Grade	N/A									3	77.5	77.3	77.8	
	All lots	N/A	411	78.8	75.7	81.4	318	78.7	1.4	82.7	289	77.4	74.8	79.7	
Moisture	U.S. No. 1	N/A					1	12.7	12.7	12.7					
	U.S. No. 2	N/A	405	12.8	11.8	13.7	308	12.6	11.1	13.5	262	12.5	11.9	13.4	
	U.S. No. 3	N/A	6	12.6	11.7	13.0	8	12.3	12.0	12.9	24	12.5	11.8	13.3	
U.S. Sa	ample Grade	N/A									3	13.0	12.9	13.2	
	All lots	N/A	411	12.8	11.7	13.7	317	12.6	11.1	13.5	289	12.5	11.8	13.4	
Heat-damaged	U.S. No. 1	0.2					1	0.0	0.0	0.0					
Kernels	U.S. No. 2	0.2	405	0.0	0.0	0.2	309	0.0	0.0	0.2	262	0.0	0.0	0.2	
	U.S. No. 3	0.5	6	0.0	0.0	0.1	8	0.0	0.0	0.0	24	0.0	0.0	0.1	
U.S. Sa	ample Grade	N/A									3	0.4	0.2	0.6	
	All lots	N/A	411	0.0	0.0	0.2	318	0.0	0.0	0.2	289	0.0	0.0	0.6	
Damaged	U.S. No. 1	2.0					1	0.9	0.9	0.9					
Kernels	U.S. No. 2	4.0	405	1.8	0.3	3.8	309	1.4	0.0	3.7	262	2.0	0.2	3.8	
(Total)	U.S. No. 3	7.0	6	2.4	1.0	3.7	8	2.0	0.5	3.7	24	2.1	0.6	4.0	
U.S. Sa	ample Grade	N/A									3	44.4	25.4	59.4	
	All lots	N/A	411	1.8	0.3	3.8	318	1.4	0.0	3.7	289	2.5	0.2	59.4	
Foreign	U.S. No. 1	0.4					1	0.3	0.3	0.3					
Material	U.S. No. 2	0.7	405	0.1	0.0	0.7	309	0.1	0.0	0.7	262	0.1	0.0	0.4	
	U.S. No. 3	1.3	6	0.1	0.0	0.2	8	0.3	0.1	0.4	24	0.1	0.0	0.2	
U.S. Sa	ample Grade	N/A									3	0.1	0.1	0.1	
	All lots	N/A	411	0.1	0.0	0.7	318	0.1	0.0	0.7	289	0.1	0.0	0.4	
Shrunken and	U.S. No. 1	3.0					1	0.6	0.6	0.6					
Broken	U.S. No. 2	5.0	405	0.7	0.3	1.7	309	0.7	0.0	1.5	262	0.7	0.2	1.5	
	U.S. No. 3	8.0	6	1.0	0.4	1.3	8	0.8	0.4	1.1	24	0.8	0.3	1.0	
U.S. Sa	ample Grade	N/A									3	1.0	0.9	1.0	
	All lots	N/A	411	0.7	0.3	1.7	318	0.7	0.0	1.5	289	0.7	0.2	1.5	

Table 4. Summary of export Soft Red Winter wheat quality, 2007-2009, continued

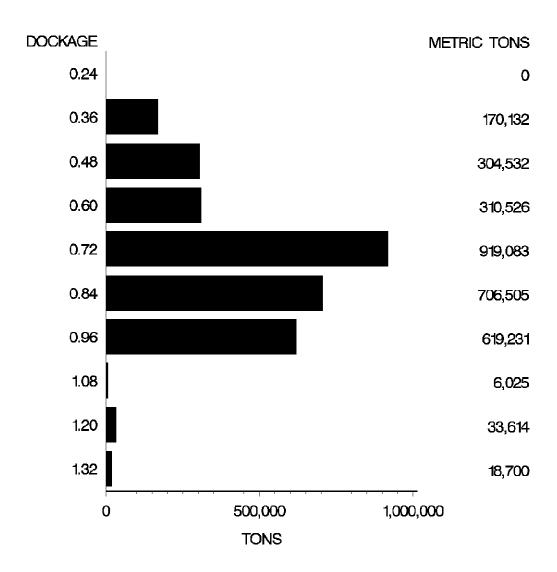
				200	)7			200	)8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Total Defects <sup>1</sup>	TIC N. 1	2.0					4	1.0	4.0	4.0				
Total Defects	U.S. No. 1 U.S. No. 2	3.0 5.0	405	2.6	0.9	 4.6	1 309	1.8 2.2	1.8 0.0	1.8 4.5	262	2.8	0.7	4.8
		8.0		_	2.1	_		3.1	1.1	_	262	_		
TIG G	U.S. No. 3	8.0 N/A	6	3.5		5.1	8		1.1	5.2		3.1	1.3	4.8
U.S. S:	ample Grade			 2.C		 					3	45.4	26.5	60.5
	All lots	N/A	411	2.6	0.9	5.1	318	2.2	0.0	5.2	289	3.3	0.7	60.5
Dockage	U.S. No. 1	N/A					1	0.7	0.7	0.7				
	U.S. No. 2	N/A	403	0.7	0.3	1.9	307	0.7	0.3	1.7	262	0.7	0.4	1.3
	U.S. No. 3	N/A	6	0.9	0.5	1.3	8	1.1	0.5	1.4	24	0.8	0.3	1.2
U.S. Sa	ample Grade	N/A									3	1.1	1.0	1.2
	All lots	N/A	409	0.7	0.3	1.9	316	0.7	0.3	1.7	289	0.7	0.3	1.3
Wheat of	U.S. No. 1	3.0					1	0.0	0.0	0.0				
Other Classes	U.S. No. 2	5.0	405	0.4	0.0	4.3	309	0.4	0.0	4.6	262	0.6	0.0	4.1
	U.S. No. 3	10.0	6	0.3	0.0	0.5	8	0.5	0.0	1.0	24	0.5	0.0	2.0
U.S. Sa	ample Grade	N/A									3	0.1	0.0	0.2
	All lots	N/A	411	0.4	0.0	4.3	318	0.4	0.0	4.6	289	0.6	0.0	4.1
G	NG N 4	1.0					4	0.0	0.0	0.0				
Contrasting	U.S. No. 1	1.0					1	0.0	0.0	0.0				
Classes	U.S. No. 2	2.0	405	0.0	0.0	0.7	309	0.0	0.0	0.3	262	0.0	0.0	0.9
****	U.S. No. 3	3.0	6	0.0	0.0	0.0	8	0.0	0.0	0.0	24	0.0	0.0	0.0
U.S. Sa	ample Grade	N/A									3	0.0	0.0	0.1
	All lots	N/A	411	0.0	0.0	0.7	318	0.0	0.0	0.3	289	0.0	0.0	0.9
Protein	U.S. No. 1	N/A					1	9.9	9.9	9.9				
(as is basis)	U.S. No. 2	N/A	366	10.2	8.6	11.4	283	10.0	8.9	11.8	248	9.9	8.9	10.6
	U.S. No. 3	N/A	2	10.6	10.2	11.1	3	10.4	10.2	10.6	18	10.0	9.4	10.5
U.S. Sa	ample Grade	N/A												
	All lots	N/A	368	10.2	8.6	11.4	287	10.0	8.9	11.8	266	9.9	8.9	10.6
Protein	U.S. No. 1	N/A					1	10.0	10.0	10.0				
(12% moisture		N/A	366	10.3	8.7	11.5	283	10.1	9.1	11.7	248	10.0	9.0	10.7
( .= , z -11010 tull t	U.S. No. 3	N/A	2	10.7	10.3	11.2	3	10.5	10.2	10.6	18	10.0	9.5	10.5
U.S. S:	ample Grade	N/A												
2.50	All lots	N/A	368	10.3	8.7	11.5	287	10.1	9.1	11.7	266	10.0	9.0	10.7

N/A = Does not apply.

 $<sup>{\</sup>mbox{--}}=No~lots$  reported in this category .

<sup>&</sup>lt;sup>1</sup>The sum of the component factor averages may not equal the average for this factor due to rounding.

# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR DOCKAGE - ALL GRADES SRW



# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR PROTEIN (12% M) - ALL GRADES SRW

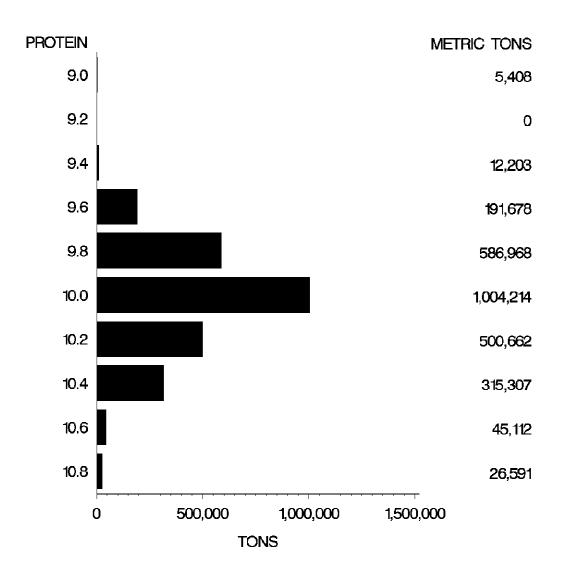


Table 5. Summary of export Durum wheat quality, 2007-2009

				200	7			200	8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 1	60.0	61	61.9	60.7	64.5	42	62.2	60.1	64.3	54	62.2	60.8	63.5
(lb/bu)	U.S. No. 2	58.0	39	60.9	59.7	63.6	20	60.9	59.7	63.4	25	61.3	58.6	62.8
	U.S. No. 3	56.0	1	61.1	61.1	61.1	5	61.4	60.2	63.3	2	62.2	62.0	62.6
	U.S. No. 4	54.0					3	62.2	60.6	62.7				
U.S. Sa	ample Grade	N/A	2	63.2	63.1	63.3								
	All lots	N/A	103	61.5	59.7	64.5	70	61.8	59.7	64.3	81	62.0	58.6	63.5
Test Weight	U.S. No. 1	N/A	61	80.7	79.0	84.0	42	81.0	78.3	83.7	54	81.0	79.1	82.7
(kg/hl)	U.S. No. 2	N/A	39	79.3	77.7	82.8	20	79.3	77.8	82.5	25	79.8	76.3	81.7
	U.S. No. 3	N/A	1	79.6	79.6	79.6	5	80.0	78.4	82.4	2	81.0	80.7	81.5
	U.S. No. 4	N/A					3	81.0	78.9	81.6				
U.S. Sa	ample Grade	N/A	2	82.3	82.2	82.4								
	All lots	N/A	103	80.1	77.7	84.0	70	80.4	77.8	83.7	81	80.7	76.3	82.7
Moisture	U.S. No. 1	N/A	61	10.0	6.1	13.1	42	8.3	6.4	12.7	54	10.4	6.6	12.6
	U.S. No. 2	N/A	39	12.1	8.1	12.9	20	11.8	8.5	12.5	25	12.0	7.9	12.8
	U.S. No. 3	N/A	1	11.9	11.9	11.9	5	10.3	7.4	12.0	2	11.3	8.1	12.5
	U.S. No. 4	N/A					3	8.9	7.9	11.6				
U.S. Sa	ample Grade	N/A	2	8.3	8.1	8.5								
	All lots	N/A	103	10.8	6.1	13.1	70	9.4	6.4	12.7	81	10.8	6.6	12.8
Heat-damaged	U.S. No. 1	0.2	61	0.0	0.0	0.0	42	0.0	0.0	0.1	54	0.0	0.0	0.1
Kernels	U.S. No. 2	0.2	39	0.0	0.0	0.0	20	0.0	0.0	0.1	25	0.0	0.0	0.0
	U.S. No. 3	0.5	1	0.0	0.0	0.0	5	0.0	0.0	0.1	2	0.0	0.0	0.1
	U.S. No. 4	1.0					3	0.1	0.0	0.1				
U.S. Sa	ample Grade	N/A	2	0.0	0.0	0.0								
	All lots	N/A	103	0.0	0.0	0.0	70	0.0	0.0	0.1	81	0.0	0.0	0.1
Damaged	U.S. No. 1	2.0	61	0.8	0.2	1.3	42	0.5	0.1	1.3	54	0.8	0.0	1.3
Kernels	U.S. No. 2	4.0	39	1.7	0.4	3.6	20	1.3	0.5	2.3	25	1.8	0.2	2.8
(Total)	U.S. No. 3	7.0	1	0.8	0.8	0.8	5	0.8	0.5	2.0	2	0.9	0.8	1.0
	U.S. No. 4	10.0					3	0.9	0.6	1.8				
U.S. Sa	ample Grade	N/A	2	0.5	0.4	0.7								
	All lots	N/A	103	1.2	0.2	3.6	70	0.8	0.1	2.3	81	1.0	0.0	2.8
Foreign	U.S. No. 1	0.4	61	0.1	0.0	0.4	42	0.1	0.0	0.3	54	0.1	0.0	0.3
Material	U.S. No. 2	0.7	39	0.2	0.1	0.5	20	0.2	0.0	0.5	25	0.2	0.1	0.7
	U.S. No. 3	1.3	1	0.1	0.1	0.1	5	0.4	0.1	1.0	2	0.4	0.1	1.1
	U.S. No. 4	3.0					3	0.3	0.1	0.7				
U.S. Sa	ample Grade	N/A	2	0.4	0.4	0.4								
	All lots	N/A	103	0.2	0.0	0.5	70	0.2	0.0	1.0	81	0.1	0.0	1.1

Table 5. Summary of export Durum wheat quality, 2007-2009, continued

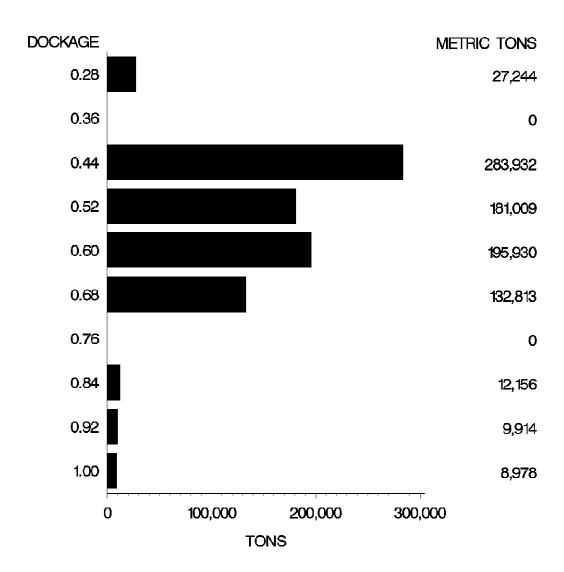
				200	7			200	18			200	19	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Shrunken and	U.S. No. 1	3.0	61	1.1	0.3	1.9	42	0.8	0.3	1.9	54	0.9	0.3	1.6
Broken	U.S. No. 2	5.0	39	1.6	0.8	2.0	20	1.6	0.5	2.1	25	1.3	0.8	1.8
	U.S. No. 3	8.0	1	1.6	1.6	1.6	5	1.4	1.0	1.8	2	0.9	0.8	1.0
	U.S. No. 4	12.0					3	1.3	1.1	2.1				
U.S. S	ample Grade	N/A	2	0.9	0.8	1.0								
	All lots	N/A	103	1.3	0.3	2.0	70	1.1	0.3	2.1	81	1.0	0.3	1.8
Total Defects <sup>1</sup>	U.S. No. 1	3.0	61	2.1	0.9	3.0	42	1.4	0.5	2.9	54	1.8	0.5	2.9
	U.S. No. 2	5.0	39	3.5	1.7	4.9	20	3.1	1.5	4.6	25	3.3	1.4	4.6
	U.S. No. 3	8.0	1	2.5	2.5	2.5	5	2.6	2.2	4.5	2	2.2	1.9	2.9
	U.S. No. 4	12.0					3	2.5	1.8	4.4				
U.S. S	ample Grade	N/A	2	1.8	1.6	2.1								
	All lots	N/A	103	2.6	0.9	4.9	70	2.0	0.5	4.6	81	2.2	0.5	4.6
Dockage	U.S. No. 1	N/A	61	0.5	0.2	1.1	42	0.5	0.3	0.7	54	0.5	0.3	0.9
	U.S. No. 2	N/A	39	0.6	0.3	0.9	20	0.6	0.3	1.0	25	0.6	0.3	0.9
	U.S. No. 3	N/A	1	0.4	0.4	0.4	5	0.6	0.5	0.9	2	0.6	0.5	1.0
	U.S. No. 4	N/A					3	0.6	0.5	1.0				
U.S. S	ample Grade	N/A	2	1.1	1.1	1.2								
	All lots	N/A	103	0.5	0.2	1.2	70	0.6	0.3	1.0	81	0.5	0.3	1.0
Contrasting	U.S. No. 1	1.0	61	0.4	0.0	1.0	42	0.2	0.0	0.9	54	0.5	0.0	1.0
Classes	U.S. No. 2	2.0	39	1.0	0.1	1.8	20	0.9	0.0	2.0	25	1.1	0.1	1.6
	U.S. No. 3	3.0	1	1.6	1.6	1.6	5	0.8	0.0	3.0	2	1.8	0.9	2.1
	U.S. No. 4	10.0					3	2.6	1.3	9.3				
U.S. S	ample Grade	N/A	2	1.4	0.6	2.6								
	All lots	N/A	103	0.6	0.0	2.6	70	0.5	0.0	9.3	81	0.7	0.0	2.1
Protein	U.S. No. 1	N/A	53	14.3	11.0	15.8	30	13.7	11.9	15.5	49	13.5	12.5	15.0
(as is basis)	U.S. No. 2	N/A	36	14.4	11.4	15.6	14	14.5	11.0	15.7	21	13.9	11.1	15.7
	U.S. No. 3	N/A	1	14.8	14.8	14.8	4	13.6	11.3	14.6	2	12.6	11.5	13.0
	U.S. No. 4	N/A					1	13.4	13.4	13.4				
U.S. S	ample Grade	N/A	2	10.8	10.8	10.9								
	All lots	N/A	92	14.4	10.8	15.8	49	14.0	11.0	15.7	72	13.6	11.1	15.7
Protein	U.S. No. 1	N/A	53	14.1	10.5	15.7	30	13.1	11.4	15.4	49	13.3	12.0	14.9
(12% moisture	e) U.S. No. 2	N/A	36	14.5	10.9	15.6	14	14.5	10.6	15.6	21	14.0	10.7	15.6
	U.S. No. 3	N/A	1	14.8	14.8	14.8	4	13.4	10.8	14.5	2	12.5	11.0	13.1
	U.S. No. 4	N/A					1	12.8	12.8	12.8				
U.S. S	ample Grade	N/A	2	10.4	10.4	10.4								
	All lots	N/A	92	14.2	10.4	15.7	49	13.6	10.6	15.6	72	13.4	10.7	15.6

N/A = Does not apply.

<sup>--</sup> = No lots reported in this category.

<sup>&</sup>lt;sup>1</sup>The sum of the component factor averages may not equal the average for this factor due to rounding.

# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR DOCKAGE - ALL GRADES DU



# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR PROTEIN (12% M) — ALL GRADES DU

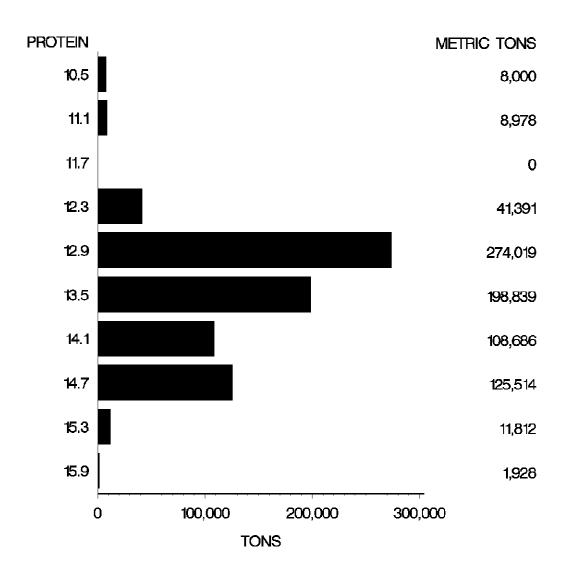


Table 6. Summary of export Soft White wheat quality, 2007-2009

				200	)7			200	)8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 1	60.0	126	61.4	60.2	62.8	126	61.4	60.2	62.8	110	61.1	60.4	63.2
(lb/bu)	U.S. No. 2	58.0	151	61.2	58.4	62.7	151	61.2	58.4	62.7	197	60.9	58.5	63.2
	U.S. No. 3	56.0	1	60.8	60.8	60.8	1	60.8	60.8	60.8				
	All lots	N/A	278	61.3	58.4	62.8	278	61.3	58.4	62.8	307	60.9	58.5	63.2
Test Weight	U.S. No. 1	N/A	126	80.8	79.1	82.5	126	80.8	79.1	82.5	110	80.4	79.4	83.1
(kg/hl)	U.S. No. 2	N/A	151	80.5	76.9	82.4	151	80.5	76.9	82.4	197	80.1	77.1	83.1
	U.S. No. 3	N/A	1	80.0	80.0	80.0	1	80.0	80.0	80.0				
	All lots	N/A	278	80.6	76.9	82.5	278	80.6	76.9	82.5	307	80.1	77.1	83.1
Moisture	U.S. No. 1	N/A	126	9.7	8.8	12.0	126	9.7	8.8	12.0	110	10.1	8.9	12.0
	U.S. No. 2	N/A	151	9.5	8.8	11.1	151	9.5	8.8	11.1	197	9.8	8.6	12.5
	U.S. No. 3	N/A	1	9.1	9.1	9.1	1	9.1	9.1	9.1				
	All lots	N/A	278	9.6	8.8	12.0	278	9.6	8.8	12.0	307	9.9	8.6	12.5
Heat-damaged	U.S. No. 1	0.2	126	0.0	0.0	0.0	126	0.0	0.0	0.0	110	0.0	0.0	0.1
Kernels	U.S. No. 2	0.2	151	0.0	0.0	0.0	151	0.0	0.0	0.0	197	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	278	0.0	0.0	0.0	278	0.0	0.0	0.0	307	0.0	0.0	0.1
Damaged	U.S. No. 1	2.0	126	0.1	0.0	0.6	126	0.1	0.0	0.6	110	0.2	0.0	1.0
Kernels	U.S. No. 2	4.0	151	0.1	0.0	2.2	151	0.1	0.0	2.2	197	0.1	0.0	2.2
(Total)	U.S. No. 3	7.0	1	0.3	0.3	0.3	1	0.3	0.3	0.3				
	All lots	N/A	278	0.1	0.0	2.2	278	0.1	0.0	2.2	307	0.2	0.0	2.2
Foreign	U.S. No. 1	0.4	126	0.1	0.0	0.3	126	0.1	0.0	0.3	110	0.1	0.0	0.3
Material	U.S. No. 2	0.7	151	0.1	0.0	0.3	151	0.1	0.0	0.3	197	0.1	0.0	0.4
	U.S. No. 3	1.3	1	0.1	0.1	0.1	1	0.1	0.1	0.1				
	All lots	N/A	278	0.1	0.0	0.3	278	0.1	0.0	0.3	307	0.1	0.0	0.4
Shrunken and	U.S. No. 1	3.0	126	0.9	0.4	1.4	126	0.9	0.4	1.4	110	0.9	0.4	1.5
Broken	U.S. No. 2	5.0	151	1.0	0.5	1.4	151	1.0	0.5	1.4	197	1.0	0.5	1.9
	U.S. No. 3	8.0	1	0.9	0.9	0.9	1	0.9	0.9	0.9				
	All lots	N/A	278	1.0	0.4	1.4	278	1.0	0.4	1.4	307	1.0	0.4	1.9
Total Defects <sup>1</sup>	U.S. No. 1	3.0	126	1.1	0.4	1.6	126	1.1	0.4	1.6	110	1.1	0.4	2.2
	U.S. No. 2	5.0	151	1.2	0.8	3.2	151	1.2	0.8	3.2	197	1.2	0.6	3.8
	U.S. No. 3	8.0	1	1.3	1.3	1.3	1	1.3	1.3	1.3				
	All lots	N/A	278	1.2	0.4	3.2	278	1.2	0.4	3.2	307	1.2	0.4	3.8

Table 6. Summary of export Soft White wheat quality, 2007-2009, continued

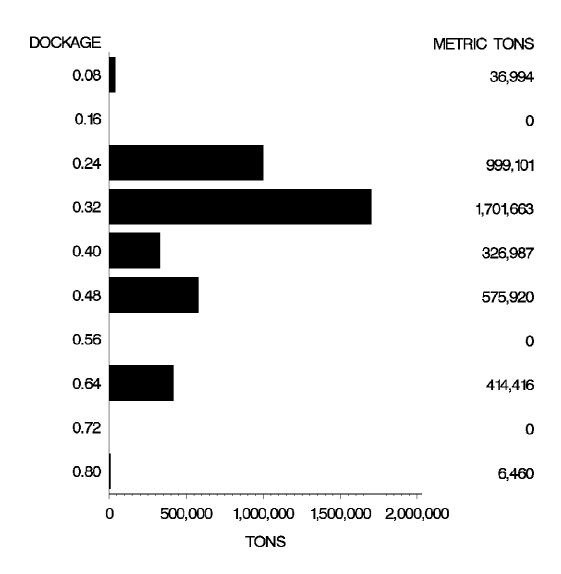
			200	17			200	8			200	19	
	Grade	No. of				No. of				No. of			
arade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
J.S. No. 1	N/A	126	0.3	0.1	0.3	126	0.3	0.1	0.3	110	0.3	0.1	0.3
J.S. No. 2	N/A	151	0.3	0.1	0.7	151	0.3	0.1	0.7	197	0.3	0.1	0.8
J.S. No. 3	N/A	1	0.3	0.3	0.3	1	0.3	0.3	0.3				
All lots	N/A	278	0.3	0.1	0.7	278	0.3	0.1	0.7	307	0.3	0.1	0.8
J.S. No. 1	3.0	126	0.5	0.0	1.9	126	0.5	0.0	1.9	110	0.3	0.0	2.1
J.S. No. 2	5.0	151	0.5	0.0	2.8	151	0.5	0.0	2.8	197	0.4	0.0	1.2
J.S. No. 3	10.0	1	1.1	1.1	1.1	1	1.1	1.1	1.1				
All lots	N/A	278	0.5	0.0	2.8	278	0.5	0.0	2.8	307	0.3	0.0	2.1
J.S. No. 1	1.0	126	0.4	0.0	1.0	126	0.4	0.0	1.0	110	0.3	0.0	1.0
J.S. No. 2	2.0	151	0.4	0.0	1.5	151	0.4	0.0	1.5	197	0.3	0.0	1.1
J.S. No. 3	3.0	1	1.1	1.1	1.1	1	1.1	1.1	1.1				
All lots	N/A	278	0.4	0.0	1.5	278	0.4	0.0	1.5	307	0.3	0.0	1.1
J.S. No. 1	N/A	126	10.4	8.3	10.9	126	10.4	8.3	10.9	110	10.3	8.3	10.8
J.S. No. 2	N/A	148	10.8	9.4	11.9	148	10.8	9.4	11.9	197	10.9	9.3	12.6
J.S. No. 3	N/A	1	11.7	11.7	11.7	1	11.7	11.7	11.7				
All lots	N/A	275	10.7	8.3	11.9	275	10.7	8.3	11.9	307	10.8	8.3	12.6
J.S. No. 1	N/A	126	10.1	8.1	10.5	126	10.1	8.1	10.5	110	10.1	8.3	10.5
J.S. No. 2	N/A	148	10.5	9.1	11.7	148	10.5	9.1	11.7	197	10.6	9.2	12.2
J.S. No. 3	N/A	1	11.3	11.3	11.3	1	11.3	11.3	11.3				
All lots	N/A	275	10.4	8.1	11.7	275	10.4	8.1	11.7	307	10.5	8.3	12.2
J.; J.; J.; J.; J.;	1 lots S. No. 1 S. No. 2 S. No. 3 1 lots S. No. 1 S. No. 2	11ots N/A S. No. 1 N/A S. No. 2 N/A S. No. 3 N/A 11ots N/A S. No. 1 N/A S. No. 1 N/A S. No. 2 N/A S. No. 3 N/A	I lots     N/A     278       S. No. 1     N/A     126       S. No. 2     N/A     148       S. No. 3     N/A     1       I lots     N/A     275       S. No. 1     N/A     126       S. No. 2     N/A     148       S. No. 3     N/A     1       S. No. 3     N/A     1	I lots       N/A       278       0.4         S. No. 1       N/A       126       10.4         S. No. 2       N/A       148       10.8         S. No. 3       N/A       1       11.7         I lots       N/A       275       10.7         S. No. 1       N/A       126       10.1         S. No. 2       N/A       148       10.5         S. No. 3       N/A       1       11.3	I lots       N/A       278       0.4       0.0         S. No. 1       N/A       126       10.4       8.3         S. No. 2       N/A       148       10.8       9.4         S. No. 3       N/A       1       11.7       11.7         I lots       N/A       275       10.7       8.3         S. No. 1       N/A       126       10.1       8.1         S. No. 2       N/A       148       10.5       9.1         S. No. 3       N/A       1       11.3       11.3	I lots         N/A         278         0.4         0.0         1.5           S. No. 1         N/A         126         10.4         8.3         10.9           S. No. 2         N/A         148         10.8         9.4         11.9           S. No. 3         N/A         1         11.7         11.7         11.7           I lots         N/A         275         10.7         8.3         11.9           S. No. 1         N/A         126         10.1         8.1         10.5           S. No. 2         N/A         148         10.5         9.1         11.7           S. No. 3         N/A         1         11.3         11.3         11.3	I lots         N/A         278         0.4         0.0         1.5         278           S. No. 1         N/A         126         10.4         8.3         10.9         126           S. No. 2         N/A         148         10.8         9.4         11.9         148           S. No. 3         N/A         1         11.7         11.7         11.7         1           I lots         N/A         275         10.7         8.3         11.9         275           S. No. 1         N/A         126         10.1         8.1         10.5         126           S. No. 2         N/A         148         10.5         9.1         11.7         148           S. No. 3         N/A         1         11.3         11.3         11.3         1	I lots       N/A       278       0.4       0.0       1.5       278       0.4         S. No. 1       N/A       126       10.4       8.3       10.9       126       10.4         S. No. 2       N/A       148       10.8       9.4       11.9       148       10.8         S. No. 3       N/A       1       11.7       11.7       11.7       1       11.7         I lots       N/A       275       10.7       8.3       11.9       275       10.7         S. No. 1       N/A       126       10.1       8.1       10.5       126       10.1         S. No. 2       N/A       148       10.5       9.1       11.7       148       10.5         S. No. 3       N/A       1       11.3       11.3       11.3       11.3       11.3	I lots         N/A         278         0.4         0.0         1.5         278         0.4         0.0           S. No. 1         N/A         126         10.4         8.3         10.9         126         10.4         8.3           S. No. 2         N/A         148         10.8         9.4         11.9         148         10.8         9.4           S. No. 3         N/A         1         11.7         11.7         11.7         1         11.7         11.7           I lots         N/A         275         10.7         8.3         11.9         275         10.7         8.3           S. No. 1         N/A         126         10.1         8.1         10.5         126         10.1         8.1           S. No. 2         N/A         148         10.5         9.1         11.7         148         10.5         9.1           S. No. 3         N/A         1         11.3         11.3         11.3         11.3         11.3	I lots       N/A       278       0.4       0.0       1.5       278       0.4       0.0       1.5         S. No. 1       N/A       126       10.4       8.3       10.9       126       10.4       8.3       10.9         S. No. 2       N/A       148       10.8       9.4       11.9       148       10.8       9.4       11.9         S. No. 3       N/A       1       11.7       11.7       11.7       1       11.7       11.7       11.7         I lots       N/A       275       10.7       8.3       11.9       275       10.7       8.3       11.9         S. No. 1       N/A       126       10.1       8.1       10.5       126       10.1       8.1       10.5         S. No. 2       N/A       148       10.5       9.1       11.7       148       10.5       9.1       11.7         S. No. 3       N/A       1       11.3       11.3       11.3       11.3       11.3       11.3	I lots       N/A       278       0.4       0.0       1.5       278       0.4       0.0       1.5       307         S. No. 1       N/A       126       10.4       8.3       10.9       126       10.4       8.3       10.9       110         S. No. 2       N/A       148       10.8       9.4       11.9       148       10.8       9.4       11.9       197         S. No. 3       N/A       1       11.7       11.7       11.7       11.7       11.7       11.7       11.7       11.7       11.7       11.7       11.7       10.7       8.3       11.9       307         S. No. 1       N/A       126       10.1       8.1       10.5       126       10.1       8.1       10.5       110         S. No. 2       N/A       148       10.5       9.1       11.7       148       10.5       9.1       11.7       197         S. No. 3       N/A       1       11.3       11.3       11.3       11.3       11.3       11.3       11.3       11.3       11.3	I lots       N/A       278       0.4       0.0       1.5       278       0.4       0.0       1.5       307       0.3         S. No. 1       N/A       126       10.4       8.3       10.9       126       10.4       8.3       10.9       110       10.3         S. No. 2       N/A       148       10.8       9.4       11.9       148       10.8       9.4       11.9       197       10.9         S. No. 3       N/A       1       11.7	I lots         N/A         278         0.4         0.0         1.5         278         0.4         0.0         1.5         307         0.3         0.0           S. No. 1         N/A         126         10.4         8.3         10.9         126         10.4         8.3         10.9         110         10.3         8.3           S. No. 2         N/A         148         10.8         9.4         11.9         148         10.8         9.4         11.9         197         10.9         9.3           S. No. 3         N/A         1         11.7         11

N/A = Does not apply.

<sup>-- =</sup> No lots reported in this category.

 $<sup>^{1}\</sup>mathrm{The}\ \mathrm{sum}\ \mathrm{of}\ \mathrm{the}\ \mathrm{comp}\ \mathrm{onent}\ \mathrm{factor}\ \mathrm{averages}\ \mathrm{may}\ \mathrm{not}\ \mathrm{equal}\ \mathrm{the}\ \mathrm{average}\ \mathrm{for}\ \mathrm{this}\ \mathrm{factor}\ \mathrm{due}\ \mathrm{to}\ \mathrm{rounding}.$ 

# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR DOCKAGE - ALL GRADES SWH



# U.S. WHEAT EXPORTED, 2009 DISTRIBUTION FOR PROTEIN (12% M) — ALL GRADES SWH

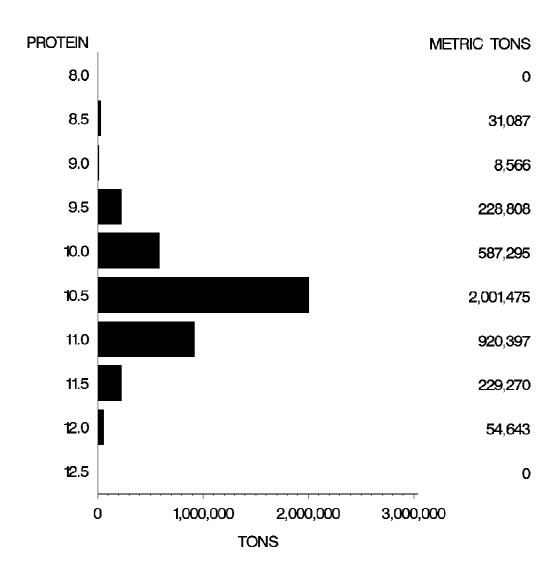


Table 7. Summary of export Hard White wheat quality, 2007-2009

				200	)7			200	8			200	)9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 1	60.0	6	62.1	61.5	63.1	5	62.6	61.7	63.0				
(lb/bu)	U.S. No. 2	58.0					4	62.5	62.4	63.3	1	61.5	61.5	61.5
	U.S. No. 4	54.0					3	62.8	62.5	63.1	12	62.8	62.3	63.4
	All lots	N/A	6	62.1	61.5	63.1	12	62.6	61.7	63.3	13	62.7	61.5	63.4
Test Weight	U.S. No. 1	N/A	6	81.7	80.9	83.0	5	82.3	81.2	82.8				
(kg/hl)	U.S. No. 2	N/A					4	82.2	82.0	83.2	1	80.9	80.9	80.9
	U.S. No. 4	N/A					3	82.6	82.2	82.9	12	82.6	81.8	83.3
	All lots	N/A	6	81.7	80.9	83.0	12	82.3	81.2	83.2	13	82.5	80.9	83.3
Moisture	U.S. No. 1	N/A	6	9.2	8.6	10.1	5	10.2	9.1	10.9				
	U.S. No. 2	N/A					4	11.1	9.5	11.4	1	10.1	10.1	10.1
	U.S. No. 4	N/A					3	11.4	11.2	11.5	12	11.2	11.1	11.4
	All lots	N/A	6	9.2	8.6	10.1	12	11.0	9.1	11.5	13	11.1	10.1	11.4
Heat-damaged	U.S. No. 1	0.2	6	0.0	0.0	0.0	5	0.0	0.0	0.0				
_	U.S. No. 2	0.2					4	0.0	0.0	0.0	1	0.0	0.0	0.0
	U.S. No. 4	1.0					3	0.0	0.0	0.0	12	0.0	0.0	0.0
	All lots	N/A	6	0.0	0.0	0.0	12	0.0	0.0	0.0	13	0.0	0.0	0.0
Damaged	U.S. No. 1	2.0	6	0.1	0.0	0.1	5	0.1	0.0	0.3				
Kernels	U.S. No. 2	4.0					4	0.5	0.0	0.5	1	0.3	0.3	0.3
(Total)	U.S. No. 4	10.0					3	1.6	1.2	2.2	12	0.7	0.3	1.3
	All lots	N/A	6	0.1	0.0	0.1	12	0.6	0.0	2.2	13	0.6	0.3	1.3
Foreign	U.S. No. 1	0.4	6	0.1	0.0	0.1	5	0.1	0.1	0.1				
Material	U.S. No. 2	0.7					4	0.1	0.1	0.1	1	0.1	0.1	0.1
	U.S. No. 4	3.0					3	0.2	0.1	0.2	12	0.2	0.1	0.3
	All lots	N/A	6	0.1	0.0	0.1	12	0.1	0.1	0.2	13	0.2	0.1	0.3
Shrunken and	U.S. No. 1	3.0	6	1.3	0.7	1.5	5	1.6	1.4	2.1				
Broken	U.S. No. 2	5.0					4	1.8	1.0	1.9	1	2.6	2.6	2.6
	U.S. No. 4	12.0					3	1.3	1.3	1.4	12	1.4	1.2	1.8
	All lots	N/A	6	1.3	0.7	1.5	12	1.7	1.0	2.1	13	1.5	1.2	2.6
Total Defects <sup>1</sup>	U.S. No. 1	3.0	6	1.4	0.9	1.6	5	2.0	1.8	2.4				
	U.S. No. 2	5.0					4	2.4	1.1	2.5	1	3.0	3.0	3.0
	U.S. No. 4	12.0					3	3.1	2.7	3.7	12	2.2	1.7	2.7
	All lots	N/A	6	1.4	0.9	1.6	12	2.4	1.1	3.7	13	2.3	1.7	3.0

Table 7. Summary of export Hard White wheat quality, 2007-2009, continued

				200	7			200	)8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Dockage	U.S. No. 1	N/A	6	0.3	0.1	0.3	5	0.3	0.3	0.3				
	U.S. No. 2	N/A					4	0.5	0.2	0.5	1	0.6	0.6	0.6
	U.S. No. 4	N/A					3	0.7	0.7	0.8	12	0.8	0.6	0.9
	All lots	N/A	6	0.3	0.1	0.3	12	0.5	0.2	0.8	13	0.7	0.6	0.9
Wheat of	U.S. No. 1	3.0	6	0.5	0.1	1.0	5	1.4	0.0	2.3				
Other Classes	U.S. No. 2	5.0					4	1.2	0.0	2.6	1	1.5	1.5	1.5
	U.S. No. 4	10.0					3	5.2	4.2	8.4	12	3.0	1.6	3.9
	All lots	N/A	6	0.5	0.1	1.0	12	1.8	0.0	8.4	13	2.9	1.5	3.9
Contrasting	U.S. No. 1	1.0	6	0.4	0.0	0.9	5	0.7	0.6	0.9				
Classes	U.S. No. 2	2.0					4	1.2	0.0	1.6	1	1.5	1.5	1.5
	U.S. No. 4	10.0					3	5.2	4.2	8.4	12	3.0	1.6	3.9
	All lots	N/A	6	0.4	0.0	0.9	12	1.7	0.0	8.4	13	2.9	1.5	3.9
Protein	U.S. No. 1	N/A	6	12.8	12.4	15.0	5	12.4	11.8	13.6				
(as is basis)	U.S. No. 2	N/A					4	10.7	10.5	11.4	1	10.7	10.7	10.7
	U.S. No. 4	N/A					3	11.7	11.7	11.8	12	11.8	11.2	12.4
	All lots	N/A	6	12.8	12.4	15.0	12	11.1	10.5	13.6	13	11.7	10.7	12.4
Protein	U.S. No. 1	N/A	6	12.4	12.0	14.7	5	12.1	11.5	13.2				
(12% moisture)	U.S. No. 2	N/A					4	10.6	10.4	11.3	1	10.5	10.5	10.5
	U.S. No. 4	N/A					3	11.6	11.6	11.7	12	11.7	11.1	12.3
	All lots	N/A	6	12.4	12.0	14.7	12	11.0	10.4	13.2	13	11.6	10.5	12.3

N/A = Does not apply.

<sup>-- =</sup> No lots reported in this category.

 $<sup>^{1}\</sup>mathrm{The}\ \mathrm{sum}\ \mathrm{of}\ \mathrm{the}\ \mathrm{comp}\ \mathrm{onent}\ \mathrm{factor}\ \mathrm{averages}\ \mathrm{may}\ \mathrm{not}\ \mathrm{equal}\ \mathrm{the}\ \mathrm{average}\ \mathrm{for}\ \mathrm{this}\ \mathrm{factor}\ \mathrm{due}\ \mathrm{to}\ \mathrm{rounding}.$ 

Table 8. Summary of export Mixed wheat quality, 2007-2009

				200	)7			200	)8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 1	60.0					6	60.2	59.8	60.9	1	61.3	61.3	61.3
(lb/bu)	All lots	N/A					6	60.2	59.8	60.9	1	61.3	61.3	61.3
Test Weight	U.S. No. 1	N/A					6	79.1	78.7	80.2	1	80.6	80.6	80.6
(kg/hl)	All lots	N/A					6	79.1	78.7	80.2	1	80.6	80.6	80.6
Moisture	U.S. No. 1	N/A					6	12.1	11.5	12.5	1	11.9	11.9	11.9
	All lots	N/A					6	12.1	11.5	12.5	1	11.9	11.9	11.9
Heat-damaged	U.S. No. 1	0.2					6	0.0	0.0	0.0	1	0.0	0.0	0.0
Kernels	All lots	N/A					6	0.0	0.0	0.0	1	0.0	0.0	0.0
Damaged	U.S. No. 1	2.0					6	1.4	0.8	2.3	1	1.8	1.8	1.8
Kernels (Total)	All lots	N/A					6	1.4	0.8	2.3	1	1.8	1.8	1.8
Foreign	U.S. No. 1	0.4					6	0.2	0.1	0.4	1	0.2	0.2	0.2
Material	All lots	N/A					6	0.2	0.1	0.4	1	0.2	0.2	0.2
Shrunken and	U.S. No. 1	3.0					6	1.3	1.0	1.5	1	1.2	1.2	1.2
Broken	All lots	N/A					6	1.3	1.0	1.5	1	1.2	1.2	1.2
Total Defects <sup>1</sup>	U.S. No. 1	3.0					6	2.9	2.2	3.6	1	3.2	3.2	3.2
	All lots	N/A					6	2.9	2.2	3.6	1	3.2	3.2	3.2
Dockage	U.S. No. 1	N/A					6	0.9	0.8	0.9	1	1.0	1.0	1.0
	All lots	N/A					6	0.9	0.8	0.9	1	1.0	1.0	1.0
Protein	U.S. No. 1	N/A					6	12.7	12.6	12.9	1	13.2	13.2	13.2
(as is basis)	All lots	N/A					6	12.7	12.6	12.9	1	13.2	13.2	13.2
Protein	U.S. No. 1	N/A					6	12.7	12.7	12.8	1	13.2	13.2	13.2
(12% moisture)	All lots	N/A					6	12.7	12.7	12.8	1	13.2	13.2	13.2

N/A = Does not apply.

 $<sup>{\</sup>mbox{--}}=No~lots~reported~in~this~category~.$ 

<sup>&</sup>lt;sup>1</sup>The sum of the component factor averages may not equal the average for this factor due to rounding.

### 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**

	Min Limits of:		Max Limits of:	
	IVIIII LIIIIILS OI:	Damaged	d Kernels	
		Heat-Damaged	Damaged	Broken Corn and
	Test Weight/bu	kernels	kernels total	Foreign material
Grade:	(pounds)	(percent)	(percent)	(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 grades U.S. No.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 (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, 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, 2007-2009

		20	07	20	08	20	09
		Number of	Metric	Number of	Metric	Number of	Metric
Class	Grade	Lots	Tons	Lots	Tons	Lots	Tons
Yellow	U.S. No. 1	173	2,098,207	162	2,107,452	53	877,676
Corn	U.S. No. 2	1,217	27,761,633	1,037	21,600,994	971	19,255,649
	U.S. No. 3	655	17,581,003	602	19,439,069	661	19,255,592
	U.S. No. 4	8	61,731	4	65,375	4	33,199
	U.S. No. 5			1	508	1	3,414
	U.S. Sample Grade	1	713			1	8,551
	Not Inspected	2	88,097	2	78,505	1	3,026
	All lots	2,056	47,591,384	1,808	43,291,903	1,692	39,437,107
White	U.S. No. 1	8	35,721	17	106,054	12	76,204
	U.S. No. 2	49	470,176	39	676,683	67	757,553
	U.S. No. 3	3	9,419	1	4,316		
	U.S. No. 4					1	1,324
	Not Inspected	1	7037				
	All lots	61	522,353	57	787,053	80	835,081
All Classes	U.S. No. 1	181	2,133,928	179	2,213,506	65	953,880
	U.S. No. 2	1,266	28,231,809	1,076	22,277,677	1,038	20,013,202
	U.S. No. 3	658	17,590,422	603	19,443,385	661	19,255,592
	U.S. No. 4	8	61,731	4	65,375	5	34,523
	U.S. No. 5			1	508	1	3,414
	U.S. Sample Grade	1	713			1	8,551
	Not Inspected	3	95,134	2	78,505	1	3,026
	All lots	2,117	48,113,737	1,865	44,078,956	1,772	40,272,188

<sup>-- =</sup> No lots reported in the category.

Not inspected = These lots were sold without grade designation.

Table 10. Summary of export Yellow Corn quality, 2007-2009

				200	7			200	8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 1	56.0	173	57.8	56.0	61.4	162	57.6	56.1	60.4	53	56.9	56.0	60.1
(lb/bu)	U.S. No. 2	54.0	1,217	57.6	54.9	61.2	1,037	57.4	54.2	60.1	971	56.8	54.1	60.6
	U.S. No. 3	52.0	655	57.3	53.2	60.7	602	56.7	52.5	60.4	661	56.0	52.2	60.5
	U.S. No. 4	49.0	8	55.6	51.4	58.3	4	56.8	51.6	57.7	4	53.9	50.9	58.0
	U.S. No. 5	46.0					1	58.8	58.8	58.8	1	57.4	57.4	57.4
U.S. Sa	mple Grade	N/A	1	58.4	58.4	58.4					1	56.9	56.9	56.9
	All lots	N/A	2,054	57.5	51.4	61.4	1,806	57.1	51.6	60.4	1,691	56.4	50.9	60.6
Test Weight	U.S. No. 1	N/A	173	74.5	72.0	79.0	162	74.1	72.2	77.7	53	73.3	72.0	77.3
(kg/hl)	U.S. No. 2	N/A	1,217	74.1	70.6	78.8	1,037	73.8	69.8	77.3	971	73.1	69.6	78.1
	U.S. No. 3	N/A	655	73.8	68.4	78.1	602	73.0	67.6	77.8	661	72.1	67.2	77.9
	U.S. No. 4	N/A	8	71.6	66.1	75.0	4	73.1	66.5	74.3	4	69.4	65.5	74.7
	U.S. No. 5	N/A					1	75.7	75.7	75.7	1	73.9	73.9	73.9
U.S. Sa	mple Grade	N/A	1	75.2	75.2	75.2					1	73.3	73.3	73.3
	All lots	N/A	2,054	74.0	66.1	79.0	1,806	73.5	66.5	77.8	1,691	72.6	65.5	78.1
Moisture	U.S. No. 1	N/A	173	14.1	12.8	14.9	162	13.7	12.2	14.7	53	14.3	13.7	14.8
	U.S. No. 2	N/A	1,217	14.2	13.0	15.1	1,037	13.7	12.7	14.9	971	14.3	13.2	15.0
	U.S. No. 3	N/A	655	14.2	13.0	15.1	602	14.0	12.8	15.0	661	14.3	13.0	15.4
	U.S. No. 4	N/A	8	13.8	13.6	14.6	4	13.5	13.4	14.3	4	14.1	13.9	14.9
	U.S. No. 5	N/A					1	14.2	14.2	14.2	1	15.1	15.1	15.1
U.S. Sa	mple Grade	N/A	1	16.9	16.9	16.9					1	14.8	14.8	14.8
	All lots	N/A	2,054	14.2	12.8	16.9	1,806	13.8	12.2	15.0	1,691	14.3	13.0	15.4
Heat-damaged	U.S. No. 1	0.1	173	0.0	0.0	0.0	162	0.0	0.0	0.1	53	0.0	0.0	0.0
Kernels	U.S. No. 2	0.2	1,217	0.0	0.0	0.2	1,037	0.0	0.0	0.2	971	0.0	0.0	0.1
	U.S. No. 3	0.5	655	0.0	0.0	0.3	602	0.0	0.0	0.1	661	0.0	0.0	0.1
	U.S. No. 4	1.0	8	0.0	0.0	0.0	4	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	1	0.0	0.0	0.0
U.S. Sa	mple Grade	N/A	1	0.0	0.0	0.0					1	0.0	0.0	0.0
	All lots	N/A	2,054	0.0	0.0	0.3	1,806	0.0	0.0	0.2	1,691	0.0	0.0	0.1

Table 10. Summary of export Yellow Corn quality, 2007-2009, continued

			2007				200	18			200	)9		
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Damaged	U.S. No. 1	3.0	173	1.9	0.4	3.0	162	1.6	0.3	3.0	53	2.6	0.9	3.0
Kernels	U.S. No. 2	5.0	1,217	2.6	0.5	4.7	1,037	2.1	0.4	5.0	971	3.3	0.5	5.0
(Total)	U.S. No. 3	7.0	655	2.5	0.2	6.8	602	1.7	0.2	6.3	661	3.4	0.4	7.0
	U.S. No. 4	10.0	8	3.0	1.3	8.3	4	2.1	0.3	8.3	4	3.1	2.6	7.5
	U.S. No. 5	15.0					1	10.4	10.4	10.4	1	11.5	11.5	11.5
U.S. Sa	ample Grade	N/A	1	1.6	1.6	1.6					1	5.2	5.2	5.2
	All lots	N/A	2,054	2.5	0.2	8.3	1,806	1.9	0.2	10.4	1,691	3.4	0.4	11.5
Broken Corn	U.S. No. 1	2.0	173	1.6	0.5	2.0	162	1.7	0.9	2.0	53	1.9	1.1	2.0
and Foreign	U.S. No. 2	3.0	1,217	2.4	0.7	3.0	1,036	2.5	0.7	3.0	971	2.7	1.1	3.0
Material	U.S. No. 3	4.0	655	3.0	0.6	4.0	601	2.9	0.8	4.0	661	3.4	0.9	4.0
	U.S. No. 4	5.0	8	4.4	1.3	5.0	4	2.8	2.2	4.9	4	4.0	1.5	4.3
	U.S. No. 5	7.0					1	1.9	1.9	1.9	1	1.6	1.6	1.6
U.S. Sa	ample Grade	N/A	1	1.3	1.3	1.3					1	3.3	3.3	3.3
	All lots	N/A	2,054	2.6	0.5	5.0	1,804	2.6	0.7	4.9	1,691	3.0	0.9	4.3
Broken Corn	U.S. No. 1	N/A	6	1.2	0.9	1.3	19	1.3	1.1	1.5	26	1.4	1.1	1.6
	U.S. No. 2	N/A	170	1.8	0.5	2.3	154	1.7	1.1	2.2	92	1.9	1.1	2.3
	U.S. No. 3	N/A					3	2.7	2.5	2.9				
	U.S. No. 4	N/A												
	U.S. No. 5	N/A												
U.S. Sa	ample Grade	N/A												
	All lots	N/A	176	1.7	0.5	2.3	176	1.7	1.1	2.9	118	1.8	1.1	2.3
Foreign	U.S. No. 1	N/A	6	0.4	0.3	0.6	19	0.5	0.4	0.7	26	0.5	0.4	0.7
Material	U.S. No. 2	N/A	176	0.7	0.3	1.5	167	0.7	0.3	1.1	95	0.7	0.4	1.1
	U.S. No. 3	N/A					3	0.4	0.2	0.9				
	U.S. No. 4	N/A												
	U.S. No. 5	N/A												
U.S. Sa	ample Grade	N/A												
	All lots	N/A	182	0.7	0.3	1.5	189	0.7	0.2	1.1	121	0.7	0.4	1.1

N/A = Does not apply.

 $<sup>{\</sup>mbox{--}}=$  No lots reported in this category.

Table 11. Summary of export White Corn quality, 2007-2009

				200	)7			200	8			200	)9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 1	56.0	8	59.3	57.5	60.2	17	58.8	57.2	60.3	12	59.2	56.1	59.7
(lb/bu)	U.S. No. 2	54.0	49	59.0	57.8	60.2	39	59.0	57.9	60.5	67	59.4	58.2	61.0
	U.S. No. 3	52.0	3	59.3	58.8	59.6	1	59.3	59.3	59.3				
	U.S. No. 4	49.0									1	57.9	57.9	57.9
	All lots	N/A	60	59.0	57.5	60.2	57	59.0	57.2	60.5	80	59.4	56.1	61.0
Test Weight	U.S. No. 1	N/A	8	76.3	74.0	77.4	17	75.7	73.6	77.6	12	76.2	72.2	76.9
(kg/hl)	U.S. No. 2	N/A	49	75.9	74.4	77.6	39	76.0	74.6	77.9	67	76.5	74.9	78.5
	U.S. No. 3	N/A	3	76.3	75.7	76.8	1	76.4	76.4	76.4				
	U.S. No. 4	N/A									1	74.5	74.5	74.5
	All lots	N/A	60	75.9	74.0	77.6	57	75.9	73.6	77.9	80	76.5	72.2	78.5
Moisture	U.S. No. 1	N/A	8	14.4	13.4	14.6	17	13.6	12.3	14.4	12	13.8	13.6	14.3
	U.S. No. 2	N/A	49	14.1	13.1	14.6	39	13.6	12.7	14.4	67	14.0	13.2	14.7
	U.S. No. 3	N/A	3	13.8	13.4	14.6	1	13.7	13.7	13.7				
	U.S. No. 4	N/A									1	14.2	14.2	14.2
	All lots	N/A	60	14.1	13.1	14.6	57	13.6	12.3	14.4	80	14.0	13.2	14.7
Heat-damaged	U.S. No. 1	0.1	8	0.0	0.0	0.0	17	0.0	0.0	0.0	12	0.0	0.0	0.1
Kernels	U.S. No. 2	0.2	49	0.0	0.0	0.0	39	0.0	0.0	0.0	67	0.0	0.0	0.0
	U.S. No. 3	0.5	3	0.0	0.0	0.0	1	0.0	0.0	0.0				
	U.S. No. 4	1.0									1	0.0	0.0	0.0
	All lots	N/A	60	0.0	0.0	0.0	57	0.0	0.0	0.0	80	0.0	0.0	0.1

continued

Table 11. Summary of export White Corn quality, 2007-2009, continued

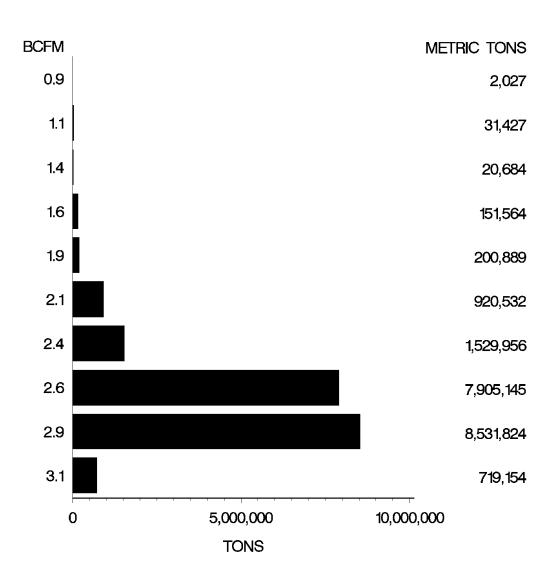
				200	)7			200	)8			200	)9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Damaged	U.S. No. 1	3.0	8	1.5	0.8	2.3	17	1.7	0.7	3.0	12	1.5	1.1	2.2
Kernels	U.S. No. 2	5.0	49	3.0	0.6	4.8	39	1.4	0.4	3.5	67	1.9	0.6	4.4
(Total)	U.S. No. 3	7.0	3	1.7	1.1	2.2	1	0.9	0.9	0.9				
	U.S. No. 4	10.0									1	2.0	2.0	2.0
	All lots	N/A	60	2.9	0.6	4.8	57	1.4	0.4	3.5	80	1.9	0.6	4.4
Broken Corn	U.S. No. 1	2.0	8	1.7	0.9	1.9	17	1.8	1.2	2.0	12	1.8	1.2	1.9
and Foreign	U.S. No. 2	3.0	49	2.4	0.8	3.0	39	2.2	1.2	2.9	67	2.5	0.9	3.0
Material	U.S. No. 3	4.0	3	3.3	3.1	3.4	1	3.7	3.7	3.7				
	U.S. No. 4	5.0									1	4.5	4.5	4.5
	All lots	N/A	60	2.4	0.8	3.4	57	2.2	1.2	3.7	80	2.4	0.9	4.5
Broken Corn	U.S. No. 1	N/A					6	1.2	1.0	1.5	4	1.4	1.3	1.4
	U.S. No. 2	N/A	9	1.8	1.1	2.2	11	1.7	1.2	2.1	14	2.0	1.7	2.2
	U.S. No. 3	N/A												
	U.S. No. 4	N/A												
	All lots	N/A	9	1.8	1.1	2.2	17	1.6	1.0	2.1	18	1.9	1.3	2.2
Foreign	U.S. No. 1	N/A					6	0.5	0.4	0.6	4	0.5	0.4	0.6
Material	U.S. No. 2	N/A	9	0.6	0.3	0.8	11	0.7	0.6	0.9	14	0.7	0.6	0.9
	U.S. No. 3	N/A												
	U.S. No. 4	N/A												
	All lots	N/A	9	0.6	0.3	0.8	17	0.6	0.4	0.9	18	0.7	0.4	0.9

N/A = Does not apply.

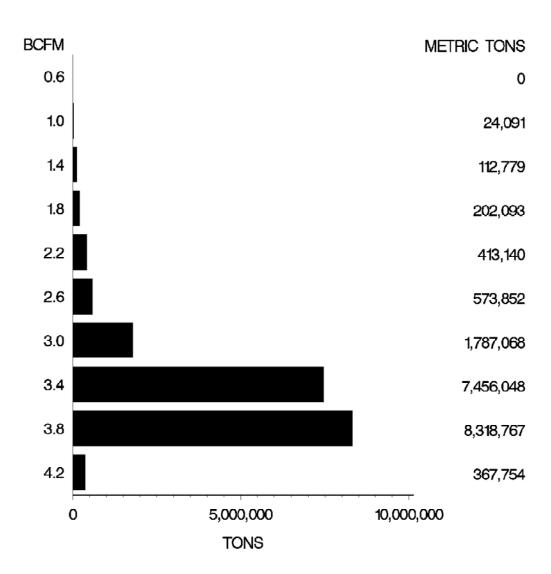
<sup>--</sup> = No lots reported in this category.

Figure 11. Corn BCFM Distribution, Grade 2

### U.S. CORN EXPORTED, 2009 DISTRIBUTION FOR BCFM - GRADE 2



### U.S. CORN EXPORTED, 2009 DISTRIBUTION FOR BCFM — GRADE 3



#### **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** 

0.5. 5tanaaras	101 50 y DC allo				
			Max Limits of:		
	Damage	d Kernels			
	Heat		Foreign		Soybeans of
	(part of total)	Total	Material	Splits	other colors <u>1</u> /
Grade:	(percent)	(percent)	(percent)	(percent)	(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) Contains 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 in 1,000 grams of soybeans; or
- (c) Contains 11 or more pieces, in any combination, of animal filth, castor beans, crotalaria seeds, glass, stones, or unknown foreign substances.
- (d) Have a musty, sour, or commercially objectionable foreign odor (except garlic odor); or
- (e) Are heating or otherwise of distinctly low quality.
- **1**/ Disregard for 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 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 grade, 2007-2009

	200	07	200	08	200	09
•	Number of	Metric	Number of	Metric	Number of	Metric
Grade	Lots	Tons	Lots	Tons	Lots	Tons
U.S. No. 1	23	163,768	16	117,125	20	303,270
U.S. No. 2	864	22,649,820	792	24,698,359	995	35,135,738
U.S. No. 3	16	284,457	17	341,769	15	307,884
U.S. No. 4	15	604,182	8	240,536	2	45,111
U.S. Sample Grade	17	501,415	42	1,787,135	10	389,666
Not Inspected	1	28,018	2	131,615	1	57,750
All lots	936	24,231,660	877	27,316,539	1,043	36,239,419

<sup>-- =</sup> No lots reported in the category.

Not inspected = These lots were sold without grade designation.

Table 13. Summary of export Soybean quality, 2007-2009

				200	)7			200	)8			200	)9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weigh	t U.S. No. 1	N/A	23	56.4	55.6	57.6	16	55.8	55.1	57.3	20	56.0	55.5	58.0
(lb/bu)	U.S. No. 2	N/A	864	55.0	0.0	58.2	792	54.5	0.0	57.6	995	54.3	0.0	58.1
	U.S. No. 3	N/A	16	52.2	0.0	56.7	17	53.0	0.0	56.9	15	39.5	0.0	57.7
	U.S. No. 4	N/A	15	54.7	54.2	55.4	8	54.9	53.0	55.3	2	53.1	53.0	53.3
	U.S. Sample Grade	N/A	17	54.6	53.7	55.3	42	54.4	53.0	55.4	10	54.3	53.1	55.1
	All lots	N/A	935	54.9	0.0	58.2	875	54.4	0.0	57.6	1042	54.2	0.0	58.1
Test Weigh	ut U.S. No. 1	N/A	23	72.6	71.6	74.2	16	71.9	71.0	73.8	20	72.1	71.4	74.7
(kg/hl)	U.S. No. 2	N/A	864	70.8	0.0	75.0	792	70.1	0.0	74.1	995	69.9	0.0	74.8
	U.S. No. 3	N/A	16	67.1	0.0	73.0	17	68.2	0.0	73.3	15	50.8	0.0	74.3
	U.S. No. 4	N/A	15	70.4	69.8	71.3	8	70.6	68.3	71.2	2	68.4	68.2	68.6
	U.S. Sample Grade	N/A	17	70.3	69.2	71.2	42	70.0	68.2	71.3	10	70.0	68.4	70.9
	All lots	N/A	935	70.7	0.0	75.0	875	70.1	0.0	74.1	1042	69.8	0.0	74.8
Moisture	U.S. No. 1	N/A	23	11.7	11.0	13.5	16	11.4	10.6	12.5	20	12.5	10.6	13.8
	U.S. No. 2	N/A	863	11.6	10.0	13.7	790	11.6	9.8	13.0	995	12.3	9.9	14.0
	U.S. No. 3	N/A	16	11.8	10.2	12.7	17	12.1	11.0	13.6	15	12.5	10.1	13.2
	U.S. No. 4	N/A	15	12.1	11.5	13.1	8	11.5	10.9	13.7	2	13.5	13.4	13.7
	U.S. Sample Grade	N/A	17	12.2	11.3	12.9	42	11.7	10.7	13.9	10	13.0	11.7	13.8
	All lots	N/A	934	11.6	10.0	13.7	873	11.6	9.8	13.9	1042	12.3	9.9	14.0
Heat-damag	ged U.S. No. 1	0.2	23	0.0	0.0	0.1	16	0.0	0.0	0.0	20	0.0	0.0	0.1
Kernels	U.S. No. 2	0.5	864	0.1	0.0	0.5	792	0.1	0.0	0.5	995	0.1	0.0	0.5
	U.S. No. 3	1.0	16	0.3	0.0	0.5	17	0.3	0.0	0.8	15	0.2	0.0	0.4
	U.S. No. 4	3.0	15	0.5	0.4	0.5	8	0.5	0.3	0.5	2	0.2	0.1	0.3
	U.S. Sample Grade	N/A	17	0.6	0.4	1.0	42	0.7	0.1	1.3	10	0.9	0.4	1.4
	All lots	N/A	935	0.1	0.0	1.0	875	0.2	0.0	1.3	1042	0.1	0.0	1.4
Damaged	U.S. No. 1	2.0	23	0.5	0.2	1.7	16	0.7	0.1	1.1	20	0.7	0.1	1.3
Kernels	U.S. No. 2	3.0	864	1.2	0.1	3.0	792	1.3	0.1	3.0	995	1.5	0.1	3.0
(Total)	U.S. No. 3	5.0	16	2.9	0.2	4.9	17	2.8	0.2	4.9	15	2.9	0.1	5.0
	U.S. No. 4	8.0	15	4.4	2.3	6.8	8	3.0	1.9	7.7	2	7.2	6.9	7.7
	U.S. Sample Grade	N/A	17	4.4	2.8	6.7	42	4.5	1.9	10.8	10	8.0	4.8	9.2
	All lots	N/A	935	1.3	0.1	6.8	875	1.5	0.1	10.8	1042	1.6	0.1	9.2

continued

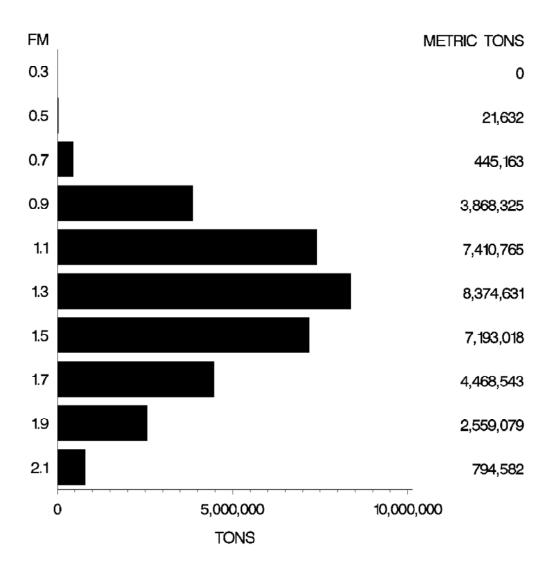
Table 13. Summary of export Soybean quality, 2007-2009, continued

				200	)7			200	)8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Foreign	U.S. No. 1	1.0	23	0.8	0.4	1.0	16	0.9	0.3	1.0	20	0.8	0.5	1.0
Material	U.S. No. 2	2.0	864	1.5	0.1	2.0	792	1.5	0.4	2.0	995	1.3	0.4	2.0
	U.S. No. 3	3.0	16	1.7	0.9	2.0	17	1.7	1.2	2.1	15	1.3	0.8	2.4
	U.S. No. 4	5.0	15	1.7	1.4	1.9	8	1.7	1.5	2.0	2	1.3	1.1	1.6
1	U.S. Sample Grade	N/A	17	1.5	1.2	1.9	42	2.0	1.3	3.0	10	1.6	1.3	2.0
	All lots	N/A	935	1.5	0.1	2.0	875	1.5	0.3	3.0	1042	1.3	0.4	2.4
Splits	U.S. No. 1	10.0	23	7.0	0.5	12.6	16	7.7	2.0	9.7	20	5.9	2.9	8.7
	U.S. No. 2	20.0	864	9.3	1.6	19.1	792	8.7	1.9	18.7	995	7.9	2.3	19.2
	U.S. No. 3	30.0	16	10.1	5.3	22.7	17	8.1	4.3	24.0	15	6.8	3.7	23.4
	U.S. No. 4	40.0	15	7.4	5.1	9.9	8	9.9	5.3	11.7	2	6.5	6.1	7.0
Ţ	U.S. Sample Grade		17	7.9	5.3	10.7	42	10.0	4.9	14.6	10	5.9	4.3	12.1
	All lots	N/A	935	9.2	0.5	22.7	875	8.7	1.9	24.0	1042	7.9	2.3	23.4
Soybeans of	U.S. No. 1	1.0	23	0.1	0.0	0.2	16	0.0	0.0	0.2	20	0.0	0.0	0.2
Other Color	s U.S. No. 2	2.0	864	0.0	0.0	0.4	792	0.0	0.0	0.7	995	0.0	0.0	0.5
	U.S. No. 3	5.0	16	0.0	0.0	0.1	17	0.1	0.0	0.2	15	0.1	0.0	0.1
	U.S. No. 4	10.0	15	0.0	0.0	0.2	8	0.0	0.0	0.1	2	0.1	0.0	0.1
Ţ	U.S. Sample Grade		17	0.1	0.0	0.1	42	0.1	0.0	0.2	10	0.0	0.0	0.1
	All lots	N/A	935	0.0	0.0	0.4	875	0.0	0.0	0.7	1042	0.0	0.0	0.5
Protein	U.S. No. 1	N/A	17	35.1	34.3	36.7	10	35.2	34.2	36.9	15	35.2	34.7	35.9
(adjusted to	U.S. No. 2	N/A	514	34.8	32.1	38.9	416	34.9	33.4	38.7	503	34.7	32.7	38.0
13% moistu	<i>'</i>	N/A	1	35.5	35.5	35.5	6	35.3	34.4	38.6	3	35.7	33.9	36.1
	U.S. No. 4	N/A	14	35.3	34.8	35.6	6	35.3	35.2	35.4				
Į	U.S. Sample Grade		13	35.2	34.7	35.5	33	35.2	34.5	35.7	10	35.2	35.1	35.5
	All lots	N/A	559	34.8	32.1	38.9	471	34.9	33.4	38.7	531	34.7	32.7	38.0
Oil	U.S. No. 1	N/A	18	18.8	17.4	19.7	11	19.0	17.8	20.0	15	18.7	18.2	19.6
(adjusted to	U.S. No. 2	N/A	522	19.1	16.9	20.4	418	19.1	17.2	20.0	510	18.8	16.7	20.4
13% moistu	<i>'</i>	N/A	1	19.8	19.8	19.8	6	19.0	17.3	19.4	3	19.8	18.2	20.1
	U.S. No. 4	N/A	14	19.3	19.1	20.1	6	19.1	19.0	19.3				
Į	U.S. Sample Grade		13	19.4	19.0	20.0	33	19.6	18.9	20.6	10	19.2	18.6	19.9
	All lots	N/A	568	19.1	16.9	20.4	474	19.2	17.2	20.6	538	18.8	16.7	20.4

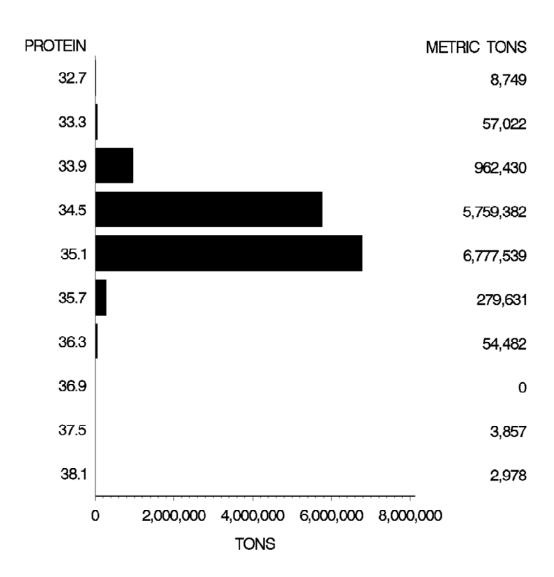
N/A = Does not apply.

<sup>--</sup> = No lots reported in this category.

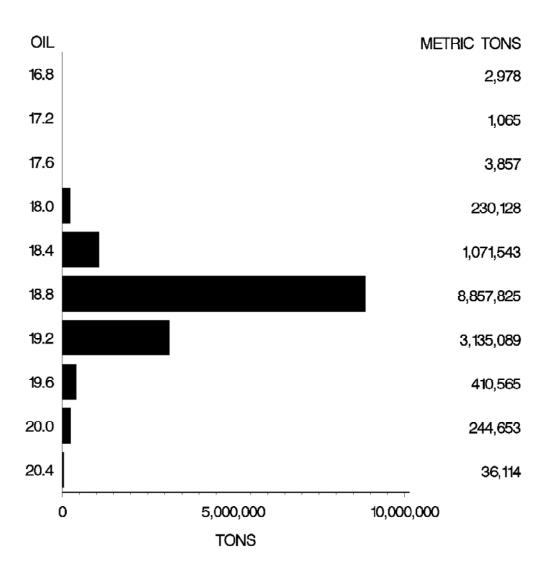
### U.S. SOYBEANS EXPORTED, 2009 DISTRIBUTION FOR FM - GRADE 2



## U.S. SOYBEANS EXPORTED, 2009 DISTRIBUTION FOR PROTEIN (13% M) - ALL GRADES



# U.S. SOYBEANS EXPORTED, 2009 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** 

	Min Limts of:		Max	x Limits of:	
		Damage	d Kernels	Broken kernels an	d foreign material
	Test weight				
	per bushel	Heat	Total	Foreign material	Total
Grade:	(pounds)	(percent)	(percent)	(percent)	(percent)
U.S. No. 1	57.0	0.2	2.0	1.0	3.0
U.S. No. 2	55.0	0.5	5.0	2.0	6.0
U.S. No. 3 <u>1</u> /	53.0	1.0	10.0	3.0	8.0
U.S. No. 4	51.0	3.0	15.0	4.0	10.0

#### U.S. Sample Grade:

U.S. Sample grade shall be sorghum which:

- (a) Do not meet the requirements for 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) Have a musty, sour, or commercially objectionable foreign odor (except smut odor); or
- (d) Is badly weathered, heating, or otherwise of distinctly low quality.

<sup>2/</sup> Sorghum which is distinctly discolored shall not grade any 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, sproutdamaged, 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, 2007-2009

		200	)7	200	08	200	)9
		Number of	Metric	Number of	Metric	Number of	Metric
Class	Grade	Lots	Tons	Lots	Tons	Lots	Tons
Sorghum	U.S. No. 2	207	3,579,584	199	4,055,944	163	2,542,005
	U.S. No. 3	13	474,465	2	104,505	3	17,553
	U.S. No. 4	4	141,959	1	33,554		
	U.S. Sample Grade			1	60,003		
	Not Inspected	4	263,654	4	226,848	1	2,622
	All lots	228	4,459,662	207	4,480,854	167	2,562,180
All Classes	U.S. No. 2	207	3,579,584	199	4,055,944	163	2,542,005
	U.S. No. 3	13	474,465	2	104,505	3	17,553
	U.S. No. 4	4	141,959	1	33,554		
	U.S. Sample Grade			1	60,003		
	Not Inspected	4	263,654	4	226,848	1	2,622
	All lots	228	4,459,662	207	4,480,854	167	2,562,180

<sup>-- =</sup> No lots reported in the category.

Not inspected = These lots were sold without grade designation.

Table 15. Summary of export Sorghum quality, 2007-2009

				200	7			200	<b>18</b>			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 2	55.0	207	58.3	55.3	60.2	199	58.7	55.8	60.1	163	58.0	56.4	59.9
(lb/bu)	U.S. No. 3	53.0	13	57.3	55.0	58.3	2	58.7	58.5	58.8	3	58.5	57.8	58.9
	U.S. No. 4	51.0	4	55.8	55.0	56.9	1	55.9	55.9	55.9				
U.S. S	ample Grade	N/A					1	59.1	59.1	59.1				
	All lots	N/A	224	58.1	55.0	60.2	203	58.7	55.8	60.1	166	58.0	56.4	59.9
Test Weight	U.S. No. 2	N/A	207	75.1	71.1	77.5	199	75.5	71.9	77.3	163	74.7	72.6	77.1
(kg/hl)	U.S. No. 3	N/A	13	73.8	70.8	75.0	2	75.5	75.3	75.7	3	75.4	74.4	75.8
	U.S. No. 4	N/A	4	71.8	70.9	73.2	1	71.9	71.9	71.9				
U.S. S	ample Grade	N/A					1	76.1	76.1	76.1				
	All lots	N/A	224	74.8	70.8	77.5	203	75.5	71.9	77.3	166	74.7	72.6	77.1
Moisture	U.S. No. 2	N/A	207	13.4	12.3	14.0	199	13.4	12.1	14.0	163	13.5	12.3	14.0
	U.S. No. 3	N/A	13	13.3	12.8	13.8	2	13.1	13.0	13.2	3	14.0	13.8	14.2
	U.S. No. 4	N/A	4	13.6	13.3	14.0	1	13.1	13.1	13.1				
U.S. S	ample Grade	N/A					1	13.5	13.5	13.5				
	All lots	N/A	224	13.4	12.3	14.0	203	13.3	12.1	14.0	166	13.5	12.3	14.2
Heat-damaged	U.S. No. 2	0.5	207	0.0	0.0	0.1	199	0.0	0.0	0.1	163	0.0	0.0	0.1
Kernels	U.S. No. 3	1.0	13	0.0	0.0	0.0	2	0.0	0.0	0.0	3	0.1	0.0	0.1
	U.S. No. 4	3.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0				
U.S. S	ample Grade	N/A					1	0.0	0.0	0.0				
	All lots	N/A	224	0.0	0.0	0.1	203	0.0	0.0	0.1	166	0.0	0.0	0.1
Damaged	U.S. No. 2	5.0	207	1.8	0.3	5.0	199	1.9	0.2	4.7	163	1.3	0.2	4.5
Kernels	U.S. No. 3	10.0	13	6.8	1.8	9.1	2	3.6	2.7	5.1	3	1.9	1.3	2.3
(Total)	U.S. No. 4	15.0	4	11.6	10.1	14.3	1	9.1	9.1	9.1				
U.S. S	ample Grade	N/A					1	1.5	1.5	1.5				
	All lots	N/A	224	2.7	0.3	14.3	203	2.0	0.2	9.1	166	1.3	0.2	4.5

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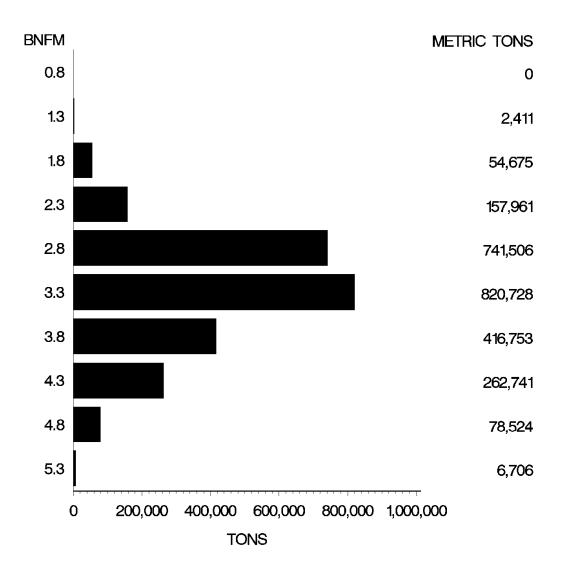
Table 15. Summary of export Sorghum quality, 2007-2009, continued

				200	)7			200	18			200	)9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Broken Kernels	U.S. No. 2	6.0	207	3.5	1.4	5.7	199	3.1	1.5	5.8	163	3.2	1.0	5.0
and Foreign	U.S. No. 3	8.0	13	3.6	2.9	4.1	2	3.1	3.1	3.2	3	4.0	3.7	4.2
Material	U.S. No. 4	10.0	4	3.9	3.4	4.3	1	4.7	4.7	4.7				
U.S. Sa	mple Grade	N/A					1	3.6	3.6	3.6				
	All lots	N/A	224	3.5	1.4	5.7	203	3.1	1.5	5.8	166	3.2	1.0	5.0
Broken Kernels	U.S. No. 2	N/A	3	2.4	2.3	2.5								
	U.S. No. 3	N/A												
	U.S. No. 4	N/A												
U.S. Sa	mple Grade	N/A												
	All lots	N/A	3	2.4	2.3	2.5								
Foreign	U.S. No. 2	2.0	207	1.3	0.4	2.3	199	1.0	0.0	2.4	163	1.2	0.3	2.0
Material	U.S. No. 3	3.0	13	1.1	0.8	1.9	2	0.9	0.8	0.9	3	2.6	2.5	2.8
	U.S. No. 4	4.0	4	1.3	0.9	1.5	1	1.6	1.6	1.6				
U.S. Sa	mple Grade	N/A					1	1.2	1.2	1.2				
	All lots	N/A	224	1.2	0.4	2.3	203	1.0	0.0	2.4	166	1.3	0.3	2.8
Dockage	U.S. No. 2	N/A	206	0.2	0.1	0.5	198	0.2	0.1	0.4	162	0.2	0.1	0.5
	U.S. No. 3	N/A	13	0.2	0.1	0.2	2	0.2	0.2	0.2	3	0.4	0.2	0.9
	U.S. No. 4	N/A	4	0.2	0.2	0.2	1	0.3	0.3	0.3				
U.S. Sa	mple Grade	N/A					1	0.2	0.2	0.2				
	All lots	N/A	223	0.2	0.1	0.5	202	0.2	0.1	0.4	165	0.2	0.1	0.9

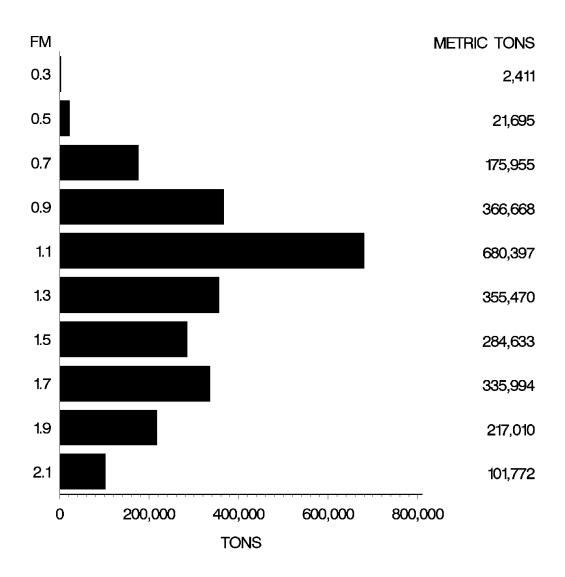
N/A = Does not apply.

<sup>--</sup> = No lots reported in this category.

### U.S. SORGHUM EXPORTED, 2009 DISTRIBUTION FOR BNFM - GRADE 2



## U.S. SORGHUM EXPORTED, 2009 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.

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

	Mir	nimum Limits	of:		Ma	ximum Limit	ts of -	
	Test weight	Suitable	Sound	Damaged	Foreign		Skinned and broken	
	per bushel	malting type	barley <u>1</u> /	kernels <u>1</u> /	material	Other grains	kernels	Thin Barley <u>2</u> /
Grade	(pounds)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(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

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

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.

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

Grades and grade requirements for Two-rowed Malting barley

	- Branc requir			urting starrey	1		
	Mir	nimum Limits	of:		Maximu	m Limits of -	
	Test weight	Suitable	Sound		Foreign	Skinned and	
	per bushel	malting type	barley <u>1</u> /	Wild Oats	material	broken kernels	Thin Barley <u>2</u> /
Grade	(pounds)	(percent)	(percent)	(percent)	(percent)	(percent)	(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

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

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

	Minimum	Limits of:	Maximum Limits of -								
				Heat							
	Test weight	Sound	Damaged	damaged	Foreign	Broken					
	per bushel	barley	kernels <u>1</u> /	kernels	material	kernels	Thin Barley <u>2</u> /				
Grade	(pounds)	(percent)	(percent)	(percent)	(percent)	(percent)	(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 is wheat that:

- (a) Does not meet the requirements for grades U.S. No. 1, 2, 3, 4, or 5; or
- (b) 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
- (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.

**<sup>2</sup>**/ Using a 5.5/64 x 3/4 slotted-hole sieve.

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

**<sup>2</sup>**/ Using a 5.5/64 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 re-cleaning.

**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  $5/64 \times 3/4$  slotted-hole sieve and Two-rowed Malting barley that passes through a  $5.5/64 \times 3/4$  slotted-hole sieve; Six-rowed barley, Two-rowed barley, or Barley that passes through a  $5/64 \times 3/4$  slotted-hole sieve.

Table 16. U.S. Barley Exports: Number of lots and quantity exported by grade, 2007-2009

	2007	7	2008	8	2009			
	Number of	Metric	Number of	Metric	Number of	Metric		
Grade	Lots	Lots Tons		Tons	Lots	Tons		
U.S. No. 2	36	685,338	23	412,099	3	38,606		
All lots	36	685,338	23	412,099	3	38,606		

Table 17. Summary of export Barley quality, 2007-2009

				200	)7			200	8			200	9	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight	U.S. No. 2	45.0	36	51.1	48.7	54.6	23	51.2	49.3	53.5	3	52.2	51.4	52.6
(lb/bu)	All lots	N/A	36	51.1	48.7	54.6	23	51.2	49.3	53.5	3	52.2	51.4	52.6
Test Weight	U.S. No. 2	N/A	36	65.8	62.7	70.3	23	65.9	63.5	68.9	3	67.2	66.2	67.7
(kg/hl)	All lots	N/A	36	65.8	62.7	70.3	23	65.9	63.5	68.9	3	67.2	66.2	67.7
Moisture	U.S. No. 2	N/A	36	11.4	10.1	13.4	23	10.9	9.9	12.7	3	11.2	11.0	11.7
	All lots	N/A	36	11.4	10.1	13.4	23	10.9	9.9	12.7	3	11.2	11.0	11.7
Heat-damaged	U.S. No. 2	0.3	36	0.0	0.0	0.2	23	0.0	0.0	0.1	3	0.1	0.0	0.1
Kernels	All lots	N/A	36	0.0	0.0	0.2	23	0.0	0.0	0.1	3	0.1	0.0	0.1
Damaged	U.S. No. 2	4.0	36	0.5	0.0	2.7	23	0.4	0.0	1.4	3	0.4	0.1	0.5
Kernels (Total)	All lots	N/A	36	0.5	0.0	2.7	23	0.4	0.0	1.4	3	0.4	0.1	0.5
Foreign	U.S. No. 2	2.0	36	0.1	0.0	0.3	23	0.1	0.0	0.3	3	0.2	0.0	0.5
Material	All lots	N/A	36	0.1	0.0	0.3	23	0.1	0.0	0.3	3	0.2	0.0	0.5
Sound Barley	U.S. No. 2	94.0	36	45.0	0.0	99.8	23	26.2	0.0	99.3	3	0.0	0.0	0.0
	All lots	N/A	36	45.0	0.0	99.8	23	26.2	0.0	99.3	3	0.0	0.0	0.0
Thin Barley	U.S. No. 2	15.0	36	5.8	2.0	10.9	23	7.7	2.6	10.3	3	5.6	5.0	7.2
	All lots	N/A	36	5.8	2.0	10.9	23	7.7	2.6	10.3	3	5.6	5.0	7.2
Broken	U.S. No. 2	8.0	36	0.5	0.0	1.0	23	0.6	0.0	1.0	3	0.9	0.4	1.2
Kernels	All lots	N/A	36	0.5	0.0	1.0	23	0.6	0.0	1.0	3	0.9	0.4	1.2
Dockage	U.S. No. 2	N/A	35	0.8	0.4	1.5	23	0.9	0.5	1.3	3	1.0	0.5	1.2
	All lots	N/A	35	0.8	0.4	1.5	23	0.9	0.5	1.3	3	1.0	0.5	1.2

 $N/A = Does \ not \ apply$ .

#### 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

			M	aximum p	ercent lim	its of:			Maximum count limits of			
	Dan	naged Ker	nels	C	onspicuous	Admixtu	re		0	terial		
	Heat	Distinctly									Unknown	
	Damage	green	Total	Ergot	Sclerotinia	Stones	Total	Inconspicuous	Animal		foreign	
Grade	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	admixture	filth	Glass	substances	
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, as well as underdeveloped, shriveled, and small pieces of canola kernels that cannot be recovered by properly screening or re-cleaning. Machine separated dockage is added to conspicuous admixture in the computation of total dockage.

**Ergot** is sclerotia of the fungus, *Clavicepts* 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 grade, 2007-2009

	2007	<u>'</u>	2008	3	2009			
	Number of	Metric	Number of	Metric	Number of	Metric		
Grade	Lots	Tons	Lots	Tons	Lots To			
U.S. No. 1			1	21,078	3	61,785		
All lots			1	21,078	3	61,785		

<sup>--</sup> = No lots reported in this category.

Table 19. Summary of export Canola quality, 2007-2009

				200	<u> </u>			200	) <u>8                                    </u>			200	<u> </u>	
		Grade	No. of				No. of				No. of			
Factor	Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Dockage	U.S. No. 1	N/A					1.0	1.9	1.9	1.9	3.0	2.3	2.3	2.4
	All lots	N/A					1.0	1.9	1.9	1.9	3.0	2.3	2.3	2.4
Moisture	U.S. No. 1	N/A					1.0	8.1	8.1	8.1	3.0	7.7	7.5	7.8
	All lots	N/A					1.0	8.1	8.1	8.1	3.0	7.7	7.5	7.8
Heat-damaged	U.S. No. 1	0.1					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
Kernels	All lots	N/A					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
Distinctly green	U.S. No. 1	2.0					1.0	0.3	0.3	0.3	3.0	0.5	0.4	0.6
Kernels	All lots	N/A					1.0	0.3	0.3	0.3	3.0	0.5	0.4	0.6
Total Damaged	U.S. No. 1	3.0					1.0	0.4	0.4	0.4	3.0	0.7	0.6	0.7
Kernels	All lots	N/A					1.0	0.4	0.4	0.4	3.0	0.7	0.6	0.7
Ergot	U.S. No. 1	0.05					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
	All lots	N/A					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
Sclerotinia	U.S. No. 1	0.05					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
	All lots	N/A					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
Stones	U.S. No. 1	0.05					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
	All lots	N/A					1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
Total Conspicuous	U.S. No. 1	1.0					1.0	0.1	0.1	0.1	3.0	0.2	0.1	0.2
Admixture	All lots	N/A					1.0	0.1	0.1	0.1	3.0	0.2	0.1	0.2
Inconspicuous	U.S. No. 1	5.0					1.0	0.0	0.0	0.0	3.0	0.1	0.0	0.1
Admixture	All lots	N/A					1.0	0.0	0.0	0.0	3.0	0.1	0.0	0.1

N/A = Does not apply.

<sup>--</sup> = 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**

	Minimum Test Weight per	Max Limits of damaged kernels:						
	bushel	Heat-Damaged kernels	Damaged kernels total					
Grade:	(pounds)	(percent)	(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.

#### 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 ground damaged, badly weather-damaged, diseased, frost-damaged, germ-damaged, heat damaged, 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 re-cleaning.

**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, non-grain 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 grade, 2007-2009

	2007	<u> </u>	2008	3	2009			
	Number of Metric		Number of Metric		Number of	Metric		
Grade	Lots	Tons	Lots	Tons	Lots	Tons		
U.S. No. 1	6	51,754	3	21,112	2	14,754		
All lots	6	51,754	3	21,112	2	14,754		

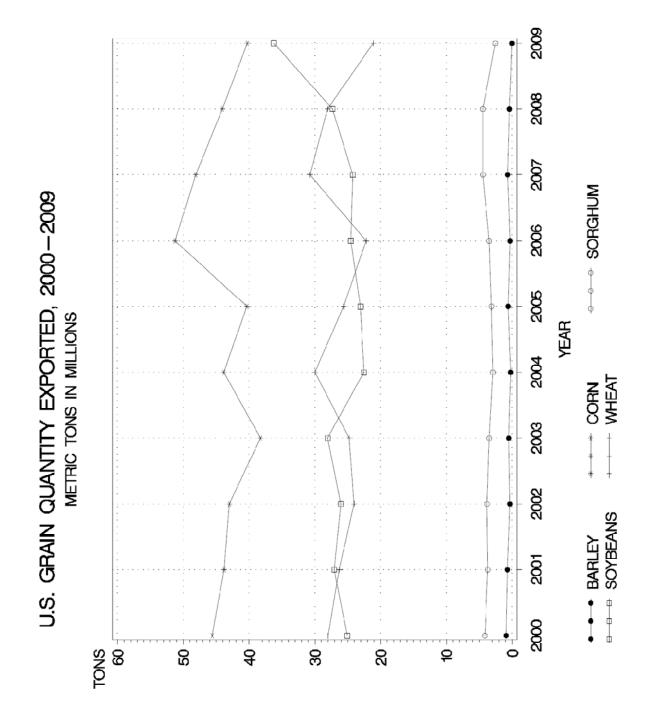
Table 21. Summary of export Flasseed quality, 2007-2009

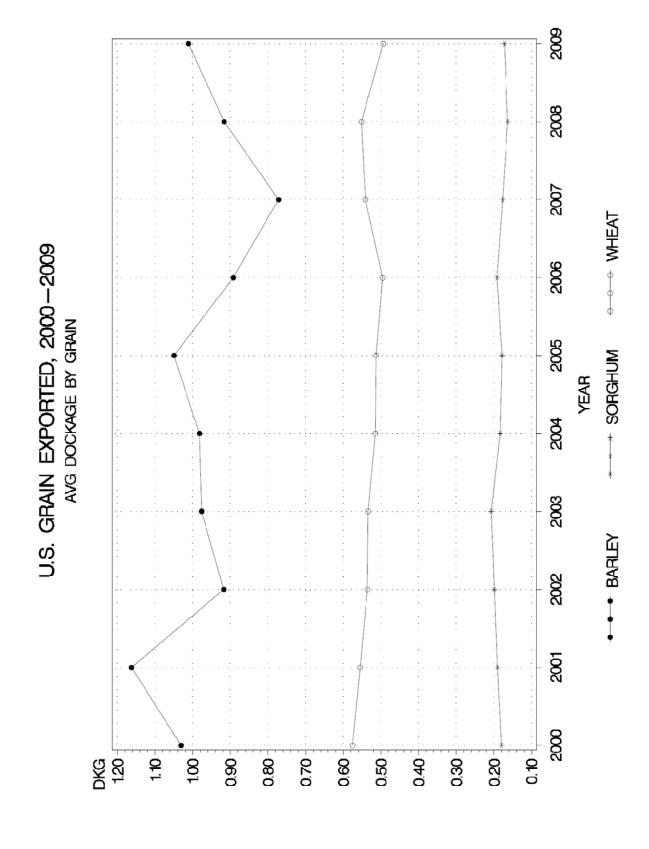
		2007			2008				2009				
	Grade	No. of			,	No. of				No. of			
Grade	Limit	Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
U.S. No. 1	49.0	6	50.4	50.1	50.7	3	50.1	49.7	50.7	2	50.0	50.0	50.1
All lots	N/A	6	50.4	50.1	50.7	3	50.1	49.7	50.7	2	50.0	50.0	50.1
U.S. No. 1	N/A	6	64.8	64.5	65.2	3	64.5	64.0	65.3	2	64.4	64.3	64.5
All lots	N/A	6	64.8	64.5	65.2	3	64.5	64.0	65.3	2	64.4	64.3	64.5
U.S. No. 1	N/A	6	7.0	6.9	7.4	3	7.1	6.7	7.3	2	7.9	7.7	8.0
All lots	N/A	6	7.0	6.9	7.4	3	7.1	6.7	7.3	2	7.9	7.7	8.0
U.S. No. 1	0.2	6	0.0	0.0	0.0	3	0.0	0.0	0.0	2	0.0	0.0	0.0
All lots	N/A	6	0.0	0.0	0.0	3	0.0	0.0	0.0	2	0.0	0.0	0.0
U.S. No. 1	10.0	6	0.0	0.0	0.2	3	0.0	0.0	0.0	2	0.1	0.0	0.1
All lots	N/A	6	0.0	0.0	0.2	3	0.0	0.0	0.0	2	0.1	0.0	0.1
U.S. No. 1	N/A	6	5.6	4.5	6.4	3	5.2	4.7	5.5	2	4.6	4.0	5.4
All lots	N/A	6	5.6	4.5	6.4	3	5.2	4.7	5.5	2	4.6	4.0	5.4
/ U / U /	All lots U.S. No. 1	All lots N/A  U.S. No. 1 N/A  All lots N/A  U.S. No. 1 N/A  All lots N/A  U.S. No. 1 0.2  All lots N/A  U.S. No. 1 10.0  All lots N/A  U.S. No. 1 N/A  U.S. No. 1 N/A	All lots N/A 6  U.S. No. 1 N/A 6  All lots N/A 6  U.S. No. 1 N/A 6  All lots N/A 6  U.S. No. 1 0.2 6  All lots N/A 6  U.S. No. 1 10.0 6  All lots N/A 6  U.S. No. 1 N/A 6	All lots N/A 6 50.4  U.S. No. 1 N/A 6 64.8  All lots N/A 6 64.8  U.S. No. 1 N/A 6 7.0  All lots N/A 6 7.0  U.S. No. 1 0.2 6 0.0  All lots N/A 6 0.0  All lots N/A 6 0.0  All lots N/A 6 0.0  U.S. No. 1 10.0 6 0.0  All lots N/A 6 0.0  U.S. No. 1 N/A 6 5.6	All lots N/A 6 50.4 50.1  U.S. No. 1 N/A 6 64.8 64.5  All lots N/A 6 64.8 64.5  U.S. No. 1 N/A 6 7.0 6.9  All lots N/A 6 7.0 6.9  U.S. No. 1 0.2 6 0.0 0.0  All lots N/A 6 0.0 0.0  U.S. No. 1 N/A 6 5.6 4.5	All lots N/A 6 50.4 50.1 50.7  U.S. No. 1 N/A 6 64.8 64.5 65.2  All lots N/A 6 64.8 64.5 65.2  U.S. No. 1 N/A 6 7.0 6.9 7.4  All lots N/A 6 7.0 6.9 7.4  U.S. No. 1 0.2 6 0.0 0.0 0.0  All lots N/A 6 0.0 0.0 0.0  U.S. No. 1 10.0 6 0.0 0.0 0.2  All lots N/A 6 0.0 0.0 0.2  All lots N/A 6 5.6 4.5 6.4	U.S. No. 1 49.0 6 50.4 50.1 50.7 3 All lots N/A 6 50.4 50.1 50.7 3  U.S. No. 1 N/A 6 64.8 64.5 65.2 3 All lots N/A 6 64.8 64.5 65.2 3  U.S. No. 1 N/A 6 7.0 6.9 7.4 3 All lots N/A 6 7.0 6.9 7.4 3  U.S. No. 1 0.2 6 0.0 0.0 0.0 3  All lots N/A 6 0.0 0.0 0.0 3  U.S. No. 1 10.0 6 0.0 0.0 0.0 3  U.S. No. 1 10.0 6 0.0 0.0 0.2 3  All lots N/A 6 5.6 4.5 6.4 3	U.S. No. 1 49.0 6 50.4 50.1 50.7 3 50.1 All lots N/A 6 50.4 50.1 50.7 3 50.1 U.S. No. 1 N/A 6 64.8 64.5 65.2 3 64.5 All lots N/A 6 64.8 64.5 65.2 3 64.5 U.S. No. 1 N/A 6 7.0 6.9 7.4 3 7.1 All lots N/A 6 7.0 6.9 7.4 3 7.1 U.S. No. 1 N/A 6 7.0 6.9 7.4 3 7.1 U.S. No. 1 0.2 6 0.0 0.0 0.0 3 0.0 All lots N/A 6 0.0 0.0 0.0 3 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 U.S. No. 1 N/A 6 5.6 4.5 6.4 3 5.2	U.S. No. 1 49.0 6 50.4 50.1 50.7 3 50.1 49.7 All lots N/A 6 50.4 50.1 50.7 3 50.1 49.7 U.S. No. 1 N/A 6 64.8 64.5 65.2 3 64.5 64.0 U.S. No. 1 N/A 6 64.8 64.5 65.2 3 64.5 64.0 U.S. No. 1 N/A 6 7.0 6.9 7.4 3 7.1 6.7 All lots N/A 6 7.0 6.9 7.4 3 7.1 6.7 U.S. No. 1 0.2 6 0.0 0.0 0.0 3 0.0 0.0 411 lots N/A 6 0.0 0.0 0.0 3 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.0 3 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 0.0 U.S. No. 1 N/A 6 5.6 4.5 6.4 3 5.2 4.7 U.S. No. 1 N/A 6 5.6 4.5 6.4 3 5.2 4.7	U.S. No. 1 49.0 6 50.4 50.1 50.7 3 50.1 49.7 50.7 All lots N/A 6 50.4 50.1 50.7 3 50.1 49.7 50.7 U.S. No. 1 N/A 6 64.8 64.5 65.2 3 64.5 64.0 65.3 All lots N/A 6 64.8 64.5 65.2 3 64.5 64.0 65.3 U.S. No. 1 N/A 6 7.0 6.9 7.4 3 7.1 6.7 7.3 All lots N/A 6 7.0 6.9 7.4 3 7.1 6.7 7.3 U.S. No. 1 0.2 6 0.0 0.0 0.0 3 0.0 0.0 0.0 All lots N/A 6 0.0 0.0 0.0 0.0 3 0.0 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.0 3 0.0 0.0 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 0.0 U.S. No. 1 N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 0.0 U.S. No. 1 N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 0.0 U.S. No. 1 N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 0.0 U.S. No. 1 N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 0.0 U.S. No. 1 N/A 6 5.6 4.5 6.4 3 5.2 4.7 5.5	U.S. No. 1	U.S. No. 1 49.0 6 50.4 50.1 50.7 3 50.1 49.7 50.7 2 50.0 All lots N/A 6 50.4 50.1 50.7 3 50.1 49.7 50.7 2 50.0 U.S. No. 1 N/A 6 64.8 64.5 65.2 3 64.5 64.0 65.3 2 64.4 All lots N/A 6 64.8 64.5 65.2 3 64.5 64.0 65.3 2 64.4 U.S. No. 1 N/A 6 7.0 6.9 7.4 3 7.1 6.7 7.3 2 7.9 All lots N/A 6 7.0 6.9 7.4 3 7.1 6.7 7.3 2 7.9 U.S. No. 1 0.2 6 0.0 0.0 0.0 3 0.0 0.0 0.0 2 0.0 All lots N/A 6 0.0 0.0 0.0 3 0.0 0.0 0.0 2 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.0 3 0.0 0.0 0.0 2 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 0.0 0.0 2 0.1 All lots N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 2 0.1 U.S. No. 1 N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 2 0.1 U.S. No. 1 N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 2 0.1 U.S. No. 1 N/A 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 2 0.1 U.S. No. 1 N/A 6 5.6 4.5 6.4 3 5.2 4.7 5.5 2 4.6	U.S. No. 1 49.0 6 50.4 50.1 50.7 3 50.1 49.7 50.7 2 50.0 50.0 All lots N/A 6 50.4 50.1 50.7 3 50.1 49.7 50.7 2 50.0 50.0 U.S. No. 1 N/A 6 64.8 64.5 65.2 3 64.5 64.0 65.3 2 64.4 64.3 All lots N/A 6 64.8 64.5 65.2 3 64.5 64.0 65.3 2 64.4 64.3 U.S. No. 1 N/A 6 7.0 6.9 7.4 3 7.1 6.7 7.3 2 7.9 7.7 All lots N/A 6 7.0 6.9 7.4 3 7.1 6.7 7.3 2 7.9 7.7 U.S. No. 1 N/A 6 7.0 6.9 7.4 3 7.1 6.7 7.3 2 7.9 7.7 U.S. No. 1 0.2 6 0.0 0.0 0.0 3 0.0 0.0 0.0 2 0.0 0.0 All lots N/A 6 0.0 0.0 0.0 0.0 3 0.0 0.0 0.0 2 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.0 3 0.0 0.0 0.0 0.0 2 0.0 0.0 U.S. No. 1 10.0 6 0.0 0.0 0.2 3 0.0 0.0 0.0 0.0 2 0.1 0.0 U.S. No. 1 N/A 6 5.6 4.5 6.4 3 5.2 4.7 5.5 2 4.6 4.0 U.S. No. 1 N/A 6 5.6 4.5 6.4 3 5.2 4.7 5.5 2 4.6 4.0

N/A = Does not apply.

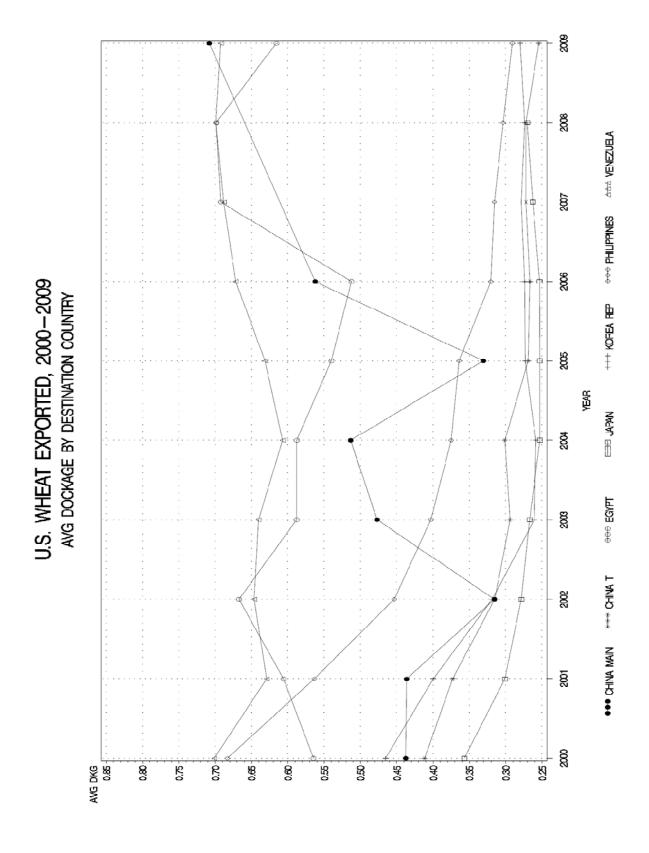
### Appendix

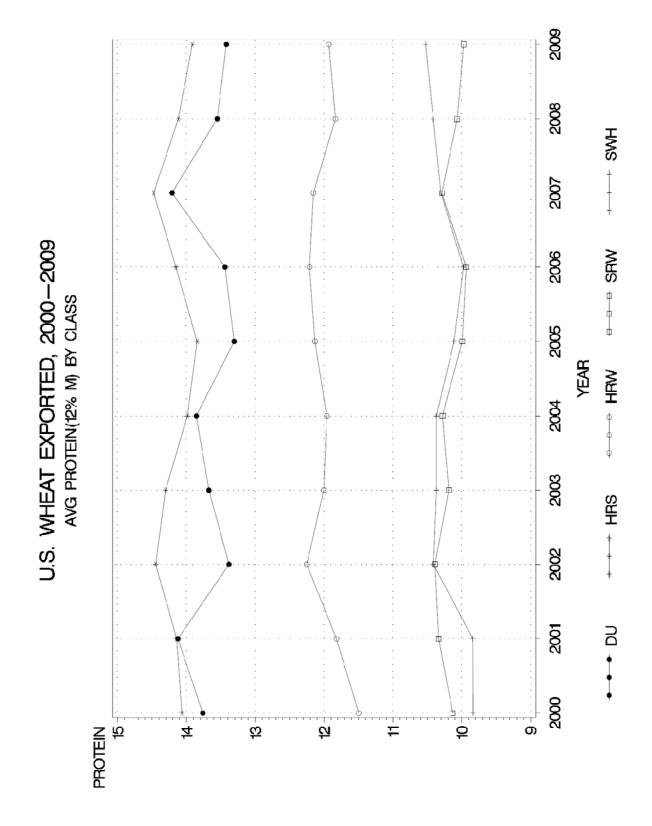
U.S. Grain Quantity Exported, 2000-2009	62
U.S. Grain Exported, 2000-2009, Average Dockage by Grain	63
U.S. Wheat Exported, 2000-2009, Average Dockage by Class	64
U.S. Wheat Exported, 2000-2009, Average Dockage by Destination Country	65
U.S. Wheat Exported, 2000-2009, Average Protein (12% Moisture) by Class	66
U.S. Soybeans Exported, 2000-2009, Average Protein and Oil (13% Moisture)	67
U.S. Grains Exported, 2000-2009, Average FM, BNFM, and BCFM	68

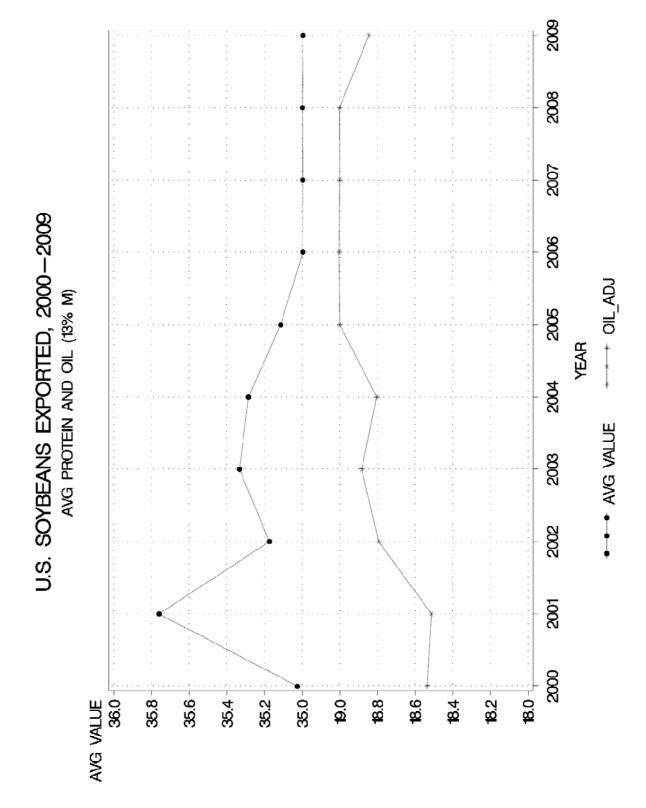




2009 2008 + SWH 2007 U.S. WHEAT EXPORTED, 2000—2009 AVG DOCKAGE BY CLASS BRW BRW 2006 2005 HRW YEAR 2004 † HRS 2003 2002 20 + 2001 2000 0.20 0.50 0.90 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.45 0.40 0.35 0.30 0.25







U.S. GRAINS EXPORTED, 2000-2009 AVG FM BNFM BCFM 0.0

0.9

AVG VALUE

5.5

5.0

5.5

0.4

3.5

3.0

CORN BCFM(3) CORN BCFM(2) SORG FM YEAR BLY FM

2009

2008

2007

2006

2005

2004

2003

2002

8

2000

0.5

20

1.5

10

25.

