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### Soybean Grades and Grade Requirements

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

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

### U.S. Standards for Soybeans

Grade:	Max Limits of:				
	Damaged Kernels		Foreign Material (percent)	Splits (percent)	Soybeans of other colors <u>1</u> / (percent)
	Heat (part of total) (percent)	Total (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.

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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, 2009-2011*

Grade	2009		2010		2011	
	No. of Lots	Metric Tons	No. of Lots	Metric Tons	No. of Lots	Metric Tons
U.S. No. 1	20	303,270	26	532,098	11	178,456
U.S. No. 2	995	35,135,738	1,029	36,215,801	793	29,277,552
U.S. No. 3	15	307,884	11	192,479	4	31,463
U.S. No. 4	2	45,111	1	8,811	--	--
U.S. Sample Grade	10	389,666	15	654,218	--	--
Not Inspected	1	57,750	1	62,995	2	24,288
All lots	1,043	36,239,419	1,083	37,666,402	810	29,511,759

-- = No lots reported in the category.

Not inspected = These lots were sold without grade designation.

Table 13. Summary of export Soybean quality, 2009-2011

Factor	Grade	Grade Limit	2009				2010				2011			
			No. of				No. of				No. of			
			Lots	Avg.	Low	High	Lots	Avg.	Low	High	Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S. No. 1	N/A	20	56.0	55.5	58.0	26	56.4	55.4	57.5	11	56.3	55.8	57.1
	U.S. No. 2	N/A	995	54.3	0.0	58.1	993	55.9	54.1	58.6	759	56.1	53.4	58.5
	U.S. No. 3	N/A	15	39.5	0.0	57.7	5	55.3	52.5	56.1	4	57.2	56.6	57.8
	U.S. No. 4	N/A	2	53.1	53.0	53.3	1	55.1	55.1	55.1	--	--	--	--
	U.S. Sample Grade	N/A	10	54.3	53.1	55.1	15	54.8	52.6	56.1	--	--	--	--
	All lots	N/A	1042	54.2	0.0	58.1	1,040	55.8	52.5	58.6	774	56.1	53.4	58.5
Test Weight (kg/hl)	U.S. No. 1	N/A	20	72.1	71.4	74.7	26	72.6	71.3	74.1	11	72.5	71.8	73.5
	U.S. No. 2	N/A	995	69.9	0.0	74.8	993	71.9	69.6	75.5	759	72.2	68.7	75.3
	U.S. No. 3	N/A	15	50.8	0.0	74.3	5	71.1	67.6	72.2	4	73.7	72.9	74.4
	U.S. No. 4	N/A	2	68.4	68.2	68.6	1	70.9	70.9	70.9	--	--	--	--
	U.S. Sample Grade	N/A	10	70.0	68.4	70.9	15	70.5	67.7	72.3	--	--	--	--
	All lots	N/A	1042	69.8	0.0	74.8	1,040	71.9	67.6	75.5	774	72.2	68.7	75.3
Moisture	U.S. No. 1	N/A	20	12.5	10.6	13.8	26	12.3	10.7	13.4	11	10.7	9.8	12.3
	U.S. No. 2	N/A	995	12.3	9.9	14.0	1,026	11.7	9.5	13.3	793	10.8	8.6	13.9
	U.S. No. 3	N/A	15	12.5	10.1	13.2	11	12.0	11.0	12.9	4	10.7	10.5	10.8
	U.S. No. 4	N/A	2	13.5	13.4	13.7	1	12.5	12.5	12.5	--	--	--	--
	U.S. Sample Grade	N/A	10	13.0	11.7	13.8	15	12.4	10.5	13.2	--	--	--	--
	All lots	N/A	1042	12.3	9.9	14.0	1,079	11.7	9.5	13.4	808	10.8	8.6	13.9
Heat-damaged Kernels	U.S. No. 1	0.2	20	0.0	0.0	0.1	26	0.0	0.0	0.1	11	0.0	0.0	0.0
	U.S. No. 2	0.5	995	0.1	0.0	0.5	1,029	0.1	0.0	0.5	793	0.1	0.0	0.5
	U.S. No. 3	1.0	15	0.2	0.0	0.4	11	0.3	0.0	0.6	4	0.0	0.0	0.0
	U.S. No. 4	3.0	2	0.2	0.1	0.3	1	0.5	0.5	0.5	--	--	--	--
	U.S. Sample Grade	N/A	10	0.9	0.4	1.4	15	0.6	0.1	2.1	--	--	--	--
	All lots	N/A	1042	0.1	0.0	1.4	1,082	0.1	0.0	2.1	808	0.1	0.0	0.5
Damaged Kernels (Total)	U.S. No. 1	2.0	20	0.7	0.1	1.3	26	0.7	0.2	1.0	11	0.5	0.2	0.8
	U.S. No. 2	3.0	995	1.5	0.1	3.0	1,029	1.4	0.0	3.2	793	0.8	0.0	3.0
	U.S. No. 3	5.0	15	2.9	0.1	5.0	11	2.8	0.8	4.8	4	0.2	0.1	0.3
	U.S. No. 4	8.0	2	7.2	6.9	7.7	1	5.5	5.5	5.5	--	--	--	--
	U.S. Sample Grade	N/A	10	8.0	4.8	9.2	15	5.5	0.8	13.2	--	--	--	--
	All lots	N/A	1042	1.6	0.1	9.2	1,082	1.5	0.0	13.2	808	0.8	0.0	3.0

continued

Table 13. Summary of export Soybean quality, 2009-2011, continued

Factor	Grade	Grade Limit	2009				2010				2011			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Foreign	U.S. No. 1	1.0	20	0.8	0.5	1.0	26	0.8	0.2	1.0	11	0.9	0.5	1.0
Material	U.S. No. 2	2.0	995	1.3	0.4	2.0	1,029	1.4	0.0	2.0	793	1.5	0.0	2.0
	U.S. No. 3	3.0	15	1.3	0.8	2.4	11	1.3	1.1	1.8	4	1.5	1.3	1.7
	U.S. No. 4	5.0	2	1.3	1.1	1.6	1	1.5	1.5	1.5	--	--	--	--
	U.S. Sample Grade	N/A	10	1.6	1.3	2.0	15	1.7	1.1	2.2	--	--	--	--
	All lots	N/A	1042	1.3	0.4	2.4	1,082	1.4	0.0	2.2	808	1.5	0.0	2.0
Splits	U.S. No. 1	10.0	20	5.9	2.9	8.7	26	6.6	3.1	8.6	11	7.5	3.4	9.7
	U.S. No. 2	20.0	995	7.9	2.3	19.2	1,029	7.2	0.0	17.1	793	8.0	0.0	19.6
	U.S. No. 3	30.0	15	6.8	3.7	23.4	11	7.5	3.8	21.3	4	8.1	5.4	11.5
	U.S. No. 4	40.0	2	6.5	6.1	7.0	1	7.7	7.7	7.7	--	--	--	--
	U.S. Sample Grade	N/A	10	5.9	4.3	12.1	15	7.8	4.8	10.2	--	--	--	--
All lots	N/A	1042	7.9	2.3	23.4	1,082	7.2	0.0	21.3	808	8.0	0.0	19.6	
Soybeans of Other Colors	U.S. No. 1	1.0	20	0.0	0.0	0.2	26	0.0	0.0	0.2	11	0.0	0.0	0.0
	U.S. No. 2	2.0	995	0.0	0.0	0.5	1,029	0.0	0.0	0.4	793	0.0	0.0	0.5
	U.S. No. 3	5.0	15	0.1	0.0	0.1	11	0.0	0.0	0.2	4	0.0	0.0	0.1
	U.S. No. 4	10.0	2	0.1	0.0	0.1	1	0.0	0.0	0.0	--	--	--	--
	U.S. Sample Grade	N/A	10	0.0	0.0	0.1	15	0.0	0.0	0.1	--	--	--	--
All lots	N/A	1042	0.0	0.0	0.5	1,082	0.0	0.0	0.4	808	0.0	0.0	0.5	
Protein (adjusted to 13% moisture)	U.S. No. 1	N/A	15	35.2	34.7	35.9	20	35.6	35.1	36.6	8	35.6	34.9	36.8
	U.S. No. 2	N/A	503	34.7	32.7	38.0	514	34.9	33.2	39.9	411	34.6	33.1	40.2
	U.S. No. 3	N/A	3	35.7	33.9	36.1	--	--	--	--	--	--	--	--
	U.S. No. 4	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S. Sample Grade	N/A	10	35.2	35.1	35.5	12	35.2	34.9	35.5	--	--	--	--
All lots	N/A	531	34.7	32.7	38.0	546	34.9	33.2	39.9	419	34.6	33.1	40.2	
Oil (adjusted to 13% moisture)	U.S. No. 1	N/A	15	18.7	18.2	19.6	20	18.6	18.0	19.3	8	18.9	18.5	19.3
	U.S. No. 2	N/A	510	18.8	16.7	20.4	522	18.9	16.7	20.1	414	18.8	16.1	20.2
	U.S. No. 3	N/A	3	19.8	18.2	20.1	--	--	--	--	--	--	--	--
	U.S. No. 4	N/A	--	--	--	--	--	--	--	--	--	--	--	--
	U.S. Sample Grade	N/A	10	19.2	18.6	19.9	12	18.8	18.5	19.6	--	--	--	--
All lots	N/A	538	18.8	16.7	20.4	554	18.8	16.7	20.1	422	18.8	16.1	20.2	

N/A = Does not apply.

-- = No lots reported in this category.

Figure 13. Soybean FM Distribution, Grade 2

### U.S. SOYBEANS EXPORTED, 2011 DISTRIBUTION FOR FM – GRADE 2

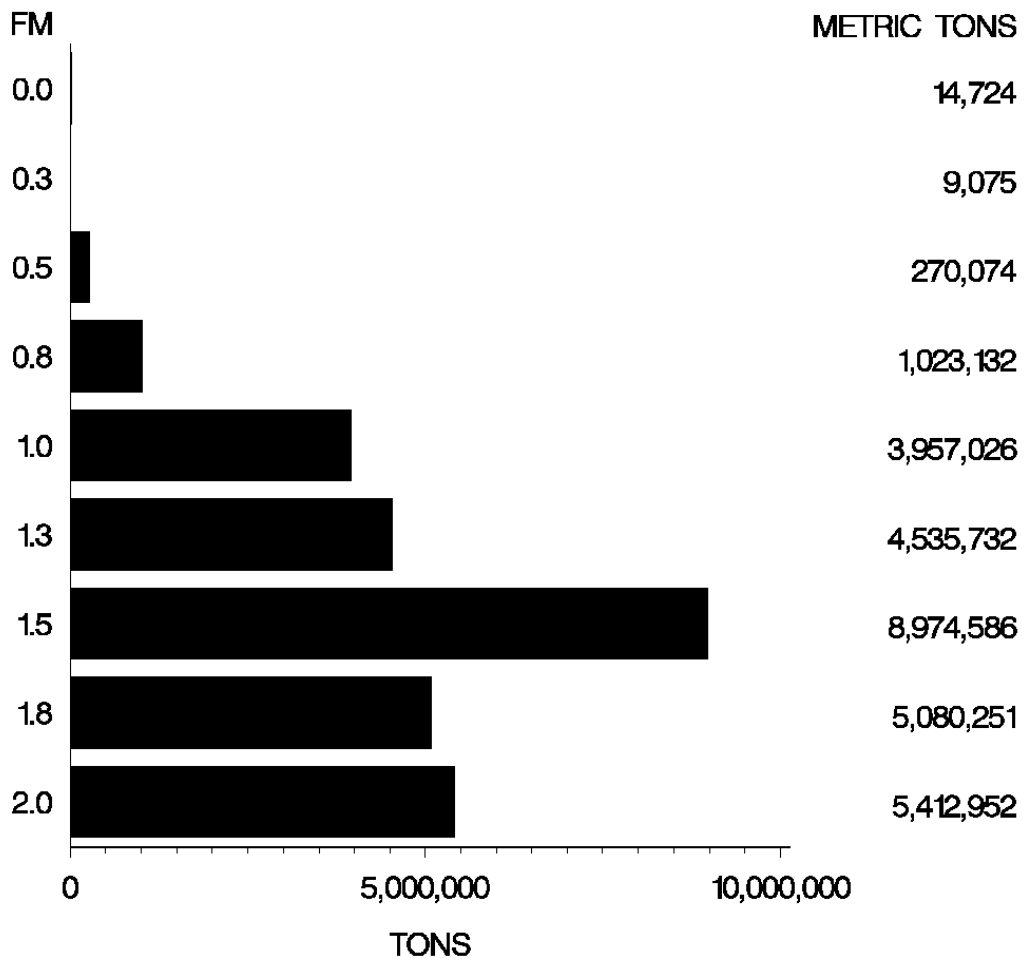


Figure 14. Soybean Protein Distribution, All Grades

**U.S. SOYBEANS EXPORTED, 2011**  
**DISTRIBUTION FOR PROTEIN (13% M) – ALL GRADES**

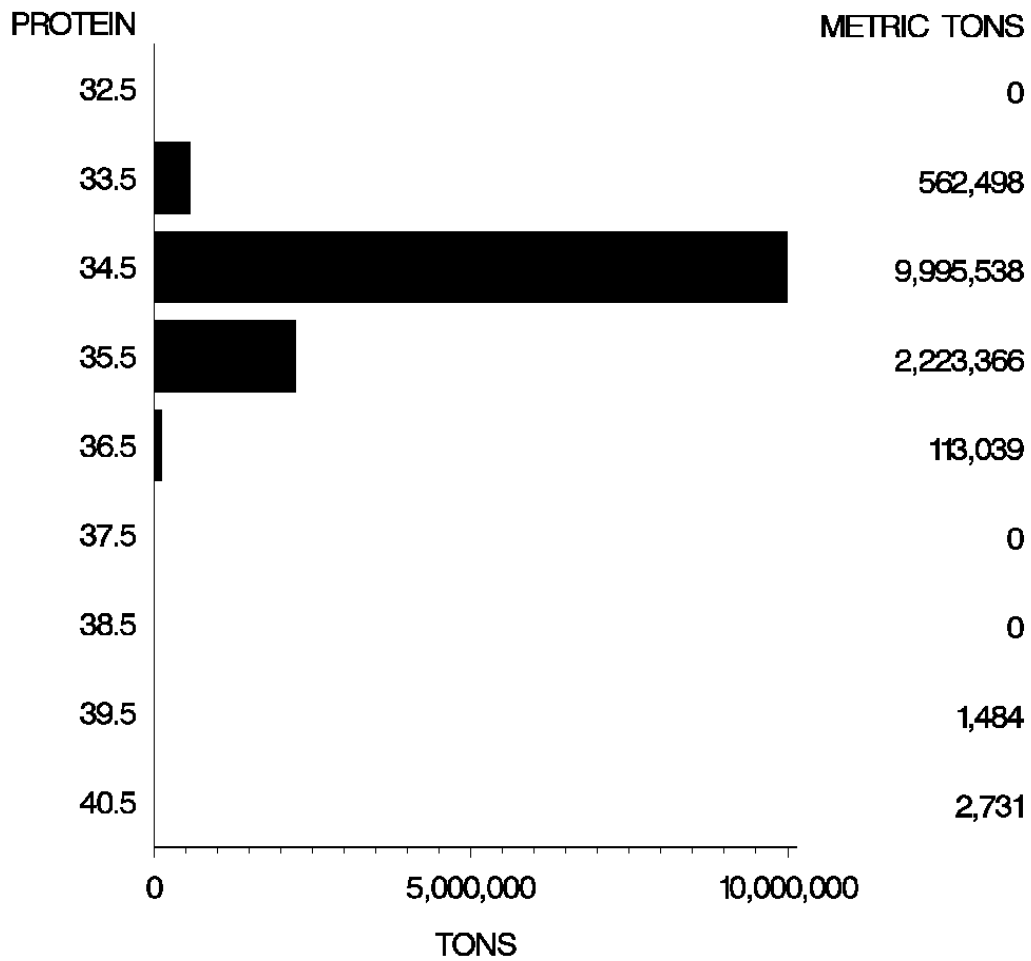
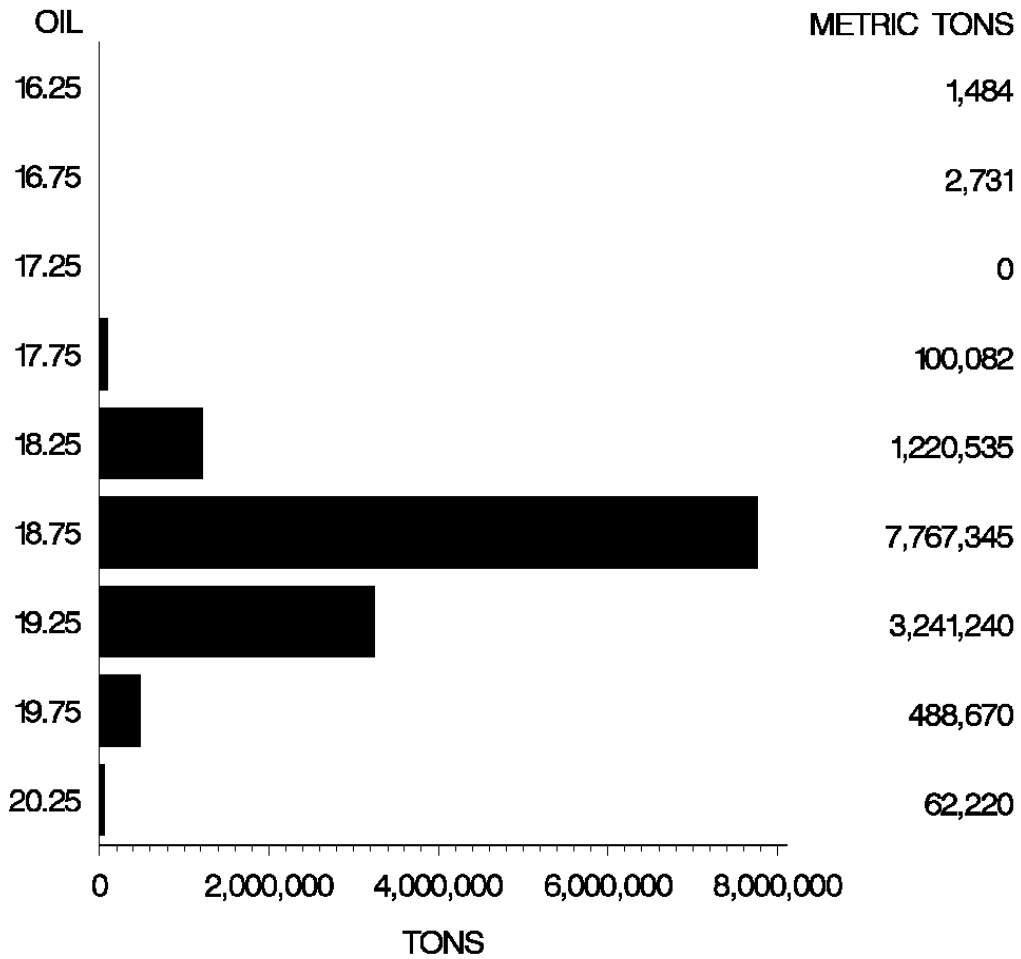


Figure 15. Soybean Oil Distribution, All Grades

**U.S. SOYBEANS EXPORTED, 2011  
DISTRIBUTION FOR OIL (13% M) – ALL GRADES**



## Other Grain Exports

### Sorghum

#### Sorghum Grades and Grade Requirements

Sorghum is divided into four classes: Sorghum, Tannin sorghum, White sorghum, and Mixed sorghum. There are no subclasses in sorghum. Each class is divided into four numerical grades and U.S. Sample grade. Special grades are provided to emphasize special qualities or conditions affecting the value of sorghum. Special grades are added to and made a part of the grade designation. They do not affect the numerical or Sample grade designation.

#### U.S. Standards for Sorghum

Grade:	Min Limits of:	Max Limits of:			
	Test weight per bushel (pounds)	Damaged Kernels		Broken kernels and foreign material	
		Heat (percent)	Total (percent)	Foreign material (percent)	Total (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.

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1/ 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, sprout-damaged, or otherwise materially damaged.

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

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

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

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

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

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

Table 14. U.S. Sorghum Exports: Number of lots and quantity exported by class and grade, 2009-2011

Class	Grade	2009		2010		2011	
		No. of Lots	Metric Tons	No. of Lots	Metric Tons	No. of Lots	Metric Tons
Sorghum	U.S. No. 2	163	2,542,005	192	2,745,431	127	2,054,787
	U.S. No. 3	3	17,553	9	351,380	9	387,853
	U.S. No. 4	--	--	--	--	--	--
	U.S. Sample Grade	--	--	--	--	--	--
	Not Inspected	1	2,622	--	--	--	--
	All lots	167	2,562,180	201	3,096,811	136	2,442,640
All Classes	U.S. No. 2	163	2,542,005	192	2,745,431	127	2,054,787
	U.S. No. 3	3	17,553	9	351,380	9	387,853
	U.S. No. 4	--	--	--	--	--	--
	U.S. Sample Grade	--	--	--	--	--	--
	Not Inspected	1	2,622	--	--	--	--
	All lots	167	2,562,180	201	3,096,811	136	2,442,640

-- = No lots reported in the category.

Not inspected = These lots were sold without grade designation.























Table 19. Summary of export Canola quality, 2009-2011

Factor	Grade	Grade Limit	2009				2010				2011			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Dockage	U.S. No. 1	N/A	3	2.3	2.3	2.4	4	2.6	2.3	2.7	1	2.8	2.8	2.8
	All lots	N/A	3	2.3	2.3	2.4	4	2.6	2.3	2.7	1	2.8	2.8	2.8
Moisture	U.S. No. 1	N/A	3	7.7	7.5	7.8	4	7.7	7.3	8.2	1	7.2	7.2	7.2
	All lots	N/A	3	7.7	7.5	7.8	4	7.7	7.3	8.2	1	7.2	7.2	7.2
Heat-damaged Kernels	U.S. No. 1	0.1	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
Distinctly green Kernels	U.S. No. 1	2.0	3	0.5	0.4	0.6	4	0.5	0.3	0.7	1	0.4	0.4	0.4
	All lots	N/A	3	0.5	0.4	0.6	4	0.5	0.3	0.7	1	0.4	0.4	0.4
Total Damaged Kernels	U.S. No. 1	3.0	3	0.7	0.6	0.7	4	0.6	0.4	0.8	1	0.5	0.5	0.5
	All lots	N/A	3	0.7	0.6	0.7	4	0.6	0.4	0.8	1	0.5	0.5	0.5
Ergot	U.S. No. 1	0.05	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
Sclerotinia	U.S. No. 1	0.05	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
Stones	U.S. No. 1	0.05	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	3	0.0	0.0	0.0	4	0.0	0.0	0.0	1	0.0	0.0	0.0
Total Conspicuous Admixture	U.S. No. 1	1.0	3	0.2	0.1	0.2	4	0.2	0.1	0.3	1	0.1	0.1	0.1
	All lots	N/A	3	0.2	0.1	0.2	4	0.2	0.1	0.3	1	0.1	0.1	0.1
Inconspicuous Admixture	U.S. No. 1	5.0	3	0.1	0.0	0.1	4	0.0	0.0	0.1	1	0.0	0.0	0.0
	All lots	N/A	3	0.1	0.0	0.1	4	0.0	0.0	0.1	1	0.0	0.0	0.0

N/A = Does not apply.

-- = No lots reported in this category.

## Flaxseed

### Flaxseed Grades and Grade Requirements

There are no classes of flaxseed. Flaxseed is divided into two numerical grades and U.S. Sample grade. Other determinations not specifically provided for under the general provisions are made on the basis of the grain when free from dockage, except the determination of odor is made on either the basis of the grain as a whole or the grain when free from dockage.

### U.S. Standards for Flaxseed

Grade:	Minimum Test Weight per bushel (pounds)	Max Limits of damaged kernels:	
		Heat-Damaged kernels (percent)	Damaged kernels total (percent)
U.S. No. 1	49.0	0.2	10.0
U.S. No. 2	47.0	0.5	15.0

U.S. Sample Grade:

U.S. Sample Grade is flaxseed that:

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

### 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, 2009-2011

Grade	2009		2010		2011	
	No. of Lots	Metric Tons	No. of Lots	Metric Tons	No. of Lots	Metric Tons
U.S. No. 1	2	14,754	3	46,550	1	10,507
All lots	2	14,754	3	46,550	1	10,507

Table 21. Summary of export Flaxseed quality, 2009-2011

Factor	Grade	Grade Limit	2009				2010				2011			
			No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High	No. of Lots	Avg.	Low	High
Test Weight (lb/bu)	U.S. No. 1	49.0	2	50.0	50.0	50.1	3	49.8	49.6	50.2	1	49.3	49.3	49.3
	All lots	N/A	2	50.0	50.0	50.1	3	49.8	49.6	50.2	1	49.3	49.3	49.3
Test Weight (kg/hl)	U.S. No. 1	N/A	2	64.4	64.3	64.5	3	64.2	63.9	64.6	1	63.5	63.5	63.5
	All lots	N/A	2	64.4	64.3	64.5	3	64.2	63.9	64.6	1	63.5	63.5	63.5
Moisture	U.S. No. 1	N/A	2	7.9	7.7	8.0	3	7.5	7.4	7.8	1	7.5	7.5	7.5
	All lots	N/A	2	7.9	7.7	8.0	3	7.5	7.4	7.8	1	7.5	7.5	7.5
Heat-damaged kernels	U.S. No. 1	0.2	2	0.0	0.0	0.0	3	0.0	0.0	0.0	1	0.0	0.0	0.0
	All lots	N/A	2	0.0	0.0	0.0	3	0.0	0.0	0.0	1	0.0	0.0	0.0
Damaged Flaxseed (Total)	U.S. No. 1	10.0	2	0.1	0.0	0.1	3	0.0	0.0	0.1	1	0.1	0.1	0.1
	All lots	N/A	2	0.1	0.0	0.1	3	0.0	0.0	0.1	1	0.1	0.1	0.1
Dockage	U.S. No. 1	N/A	2	4.6	4.0	5.4	3	4.6	4.3	5.1	1	4.0	4.0	4.0
	All lots	N/A	2	4.6	4.0	5.4	3	4.6	4.3	5.1	1	4.0	4.0	4.0

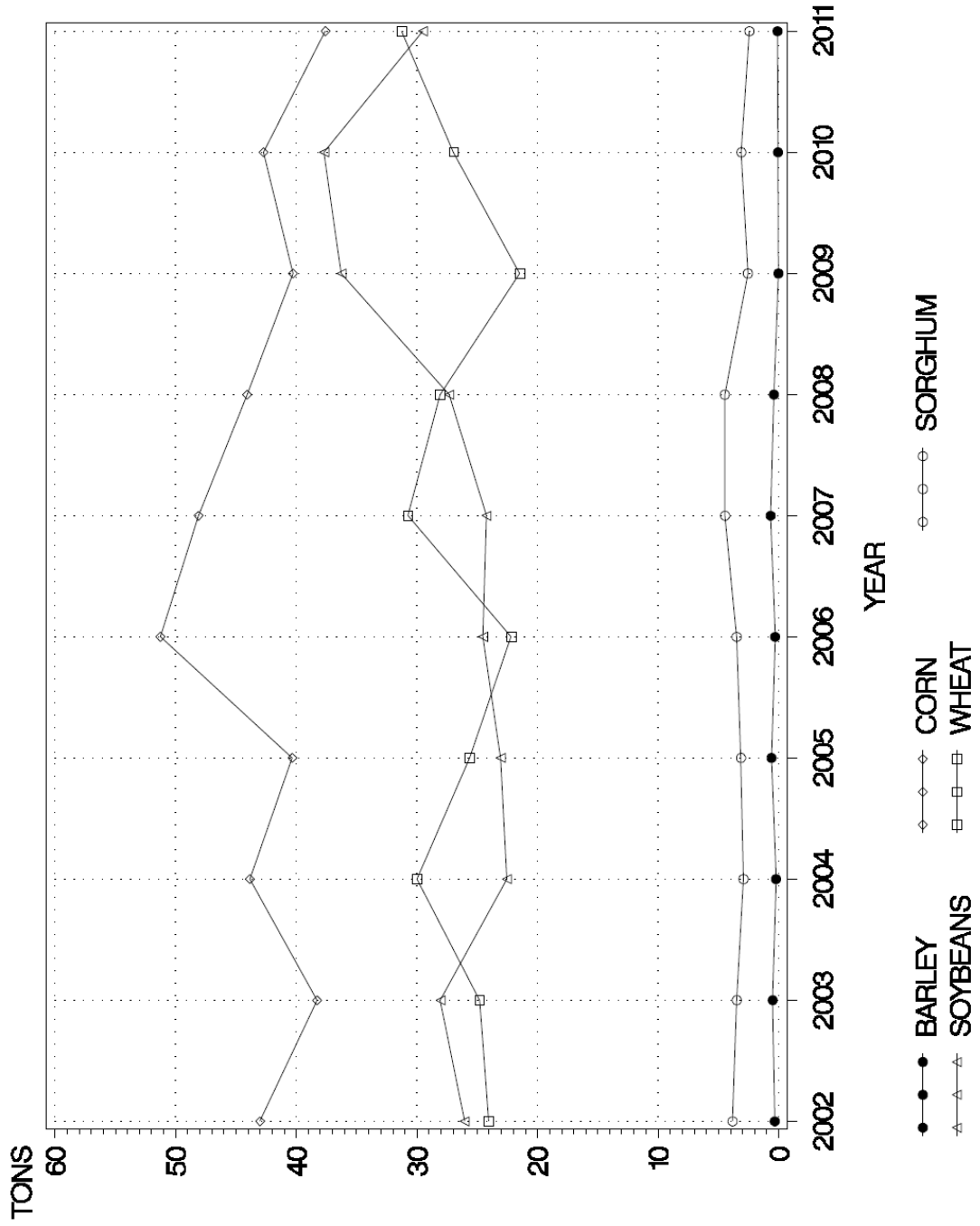
N/A = Does not apply.

## Appendix

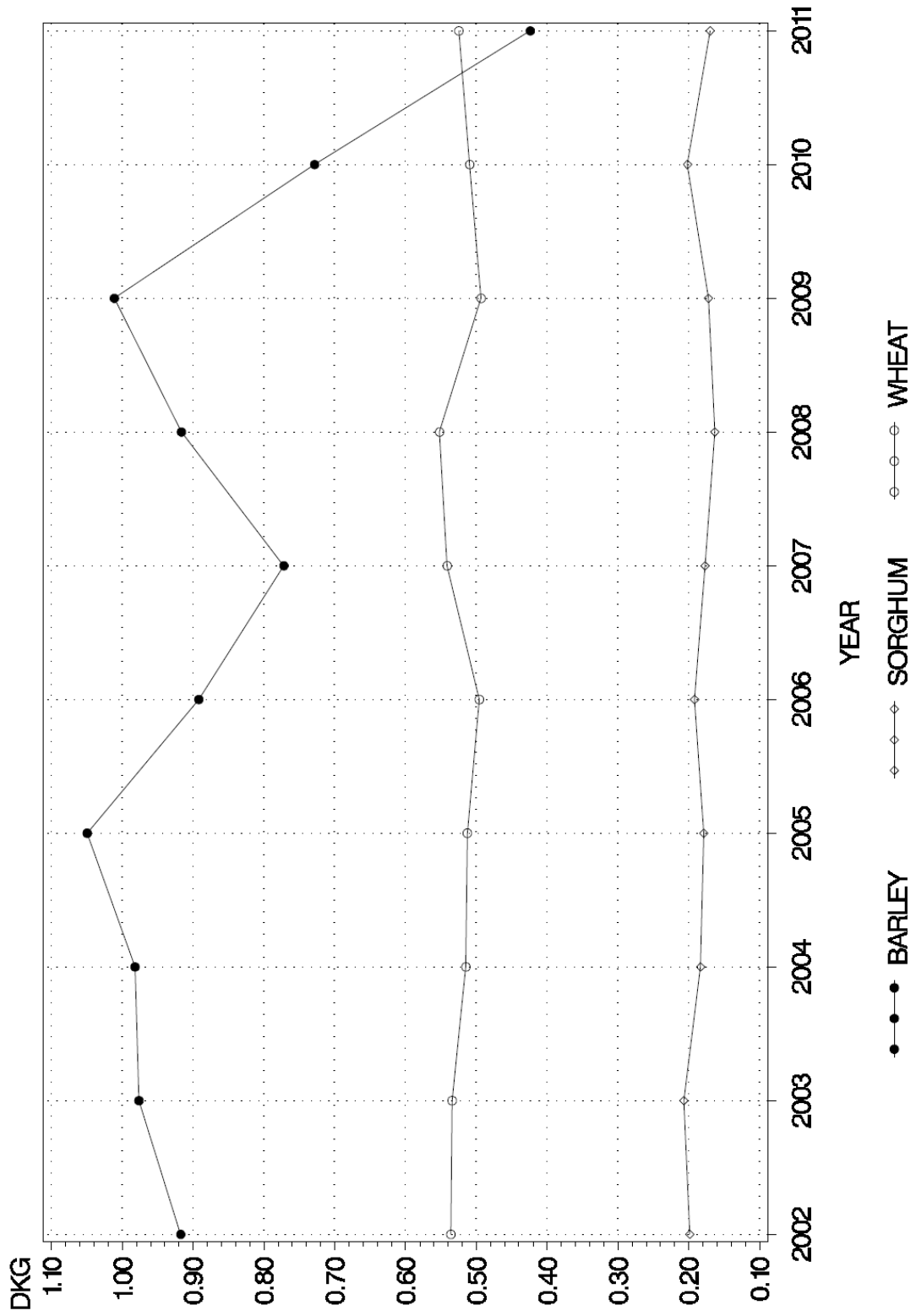
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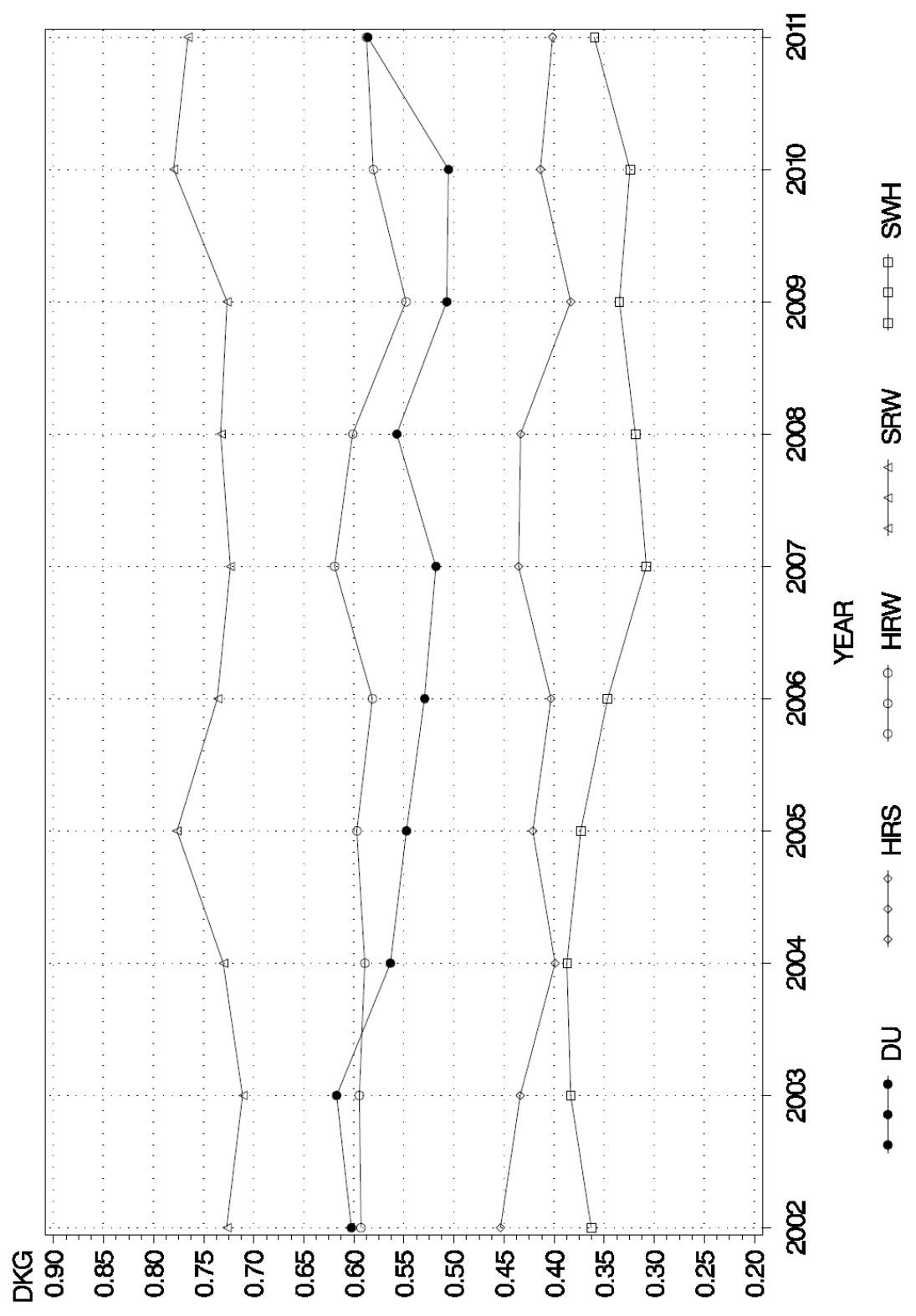
**U.S. GRAIN QUANTITY EXPORTED, 2002 – 2011**  
**METRIC TONS IN MILLIONS**



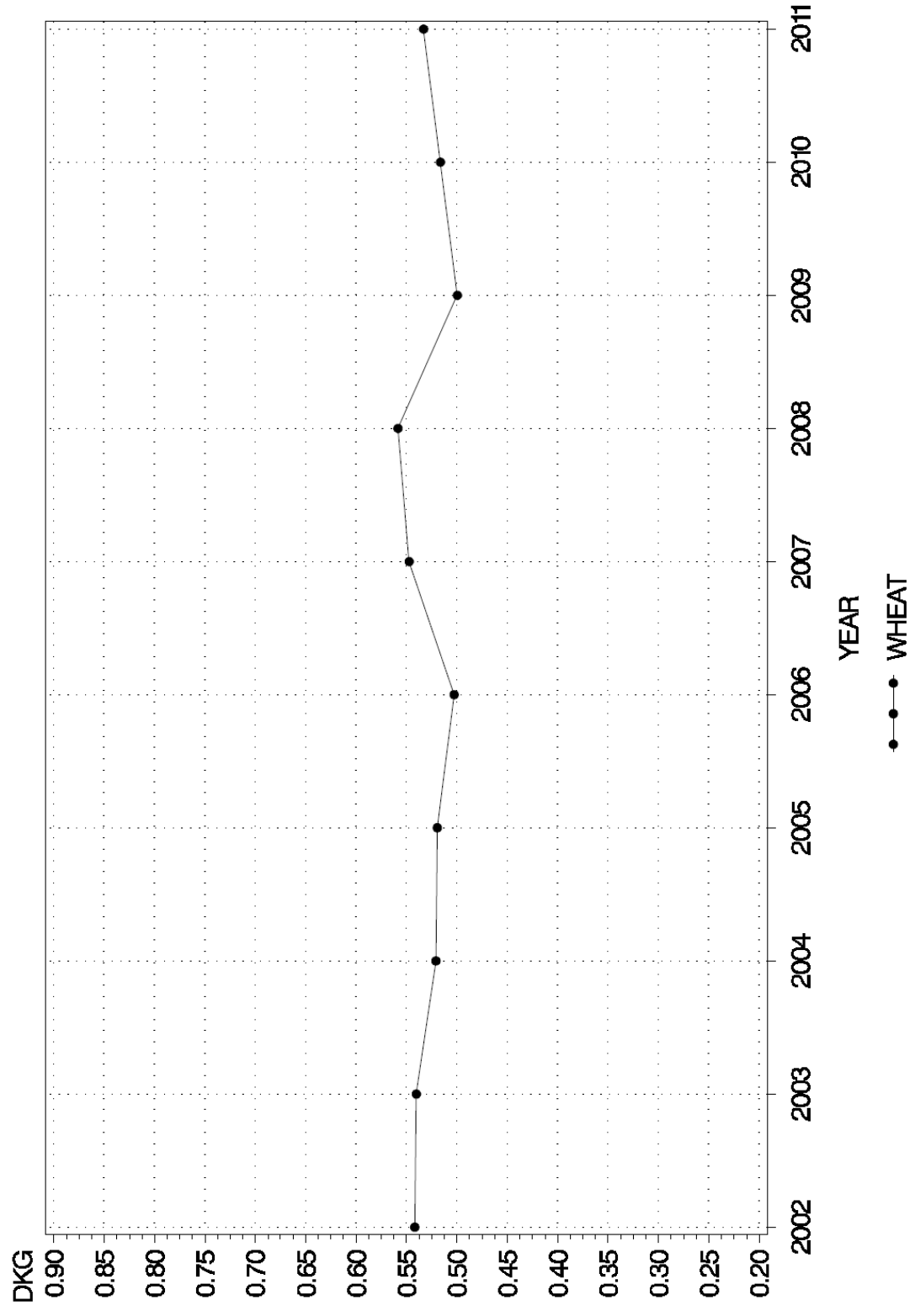
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AVG DOCKAGE BY GRAIN



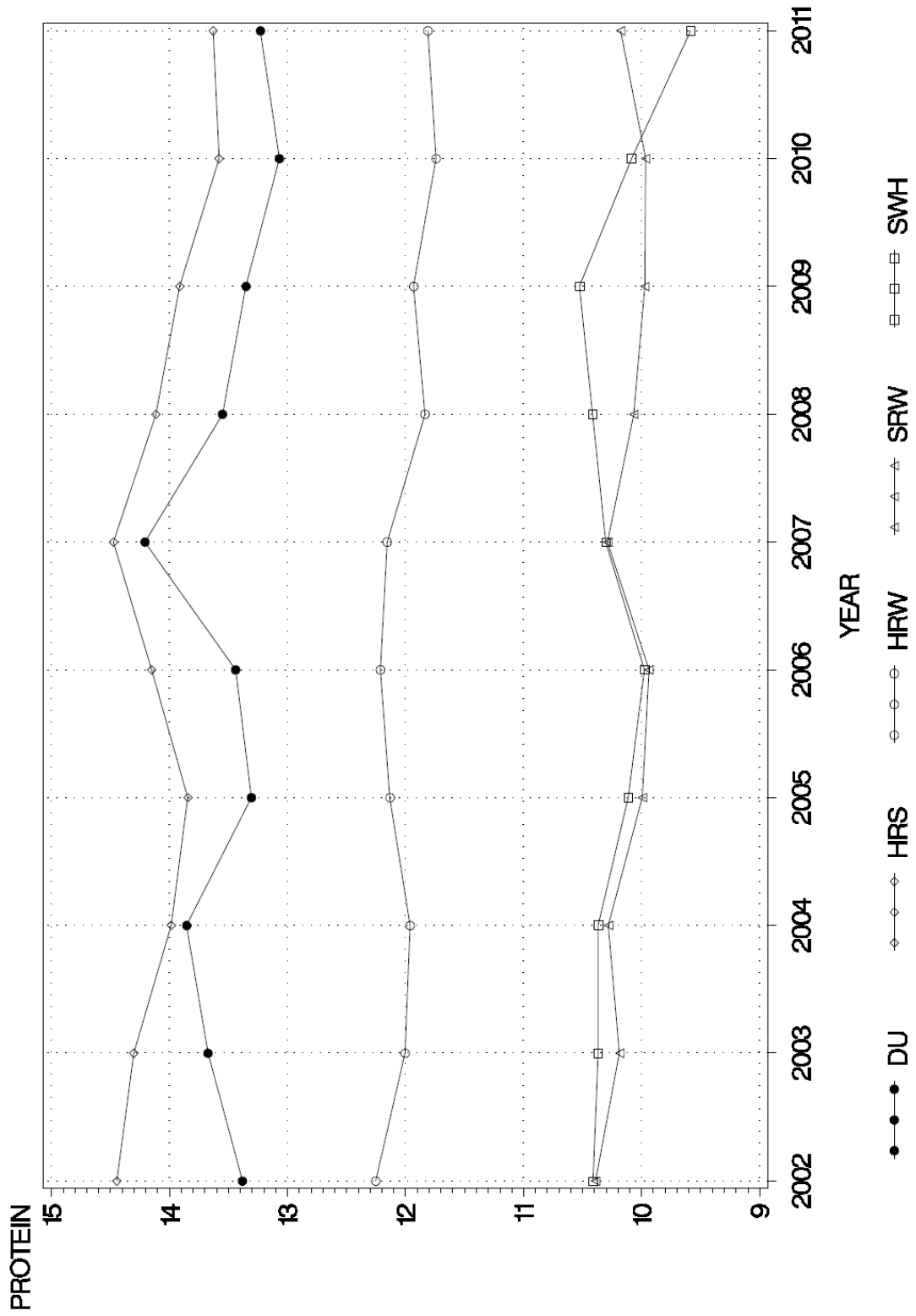
**U.S. WHEAT EXPORTED, 2002—2011**  
**AVG DOCKAGE BY CLASS**



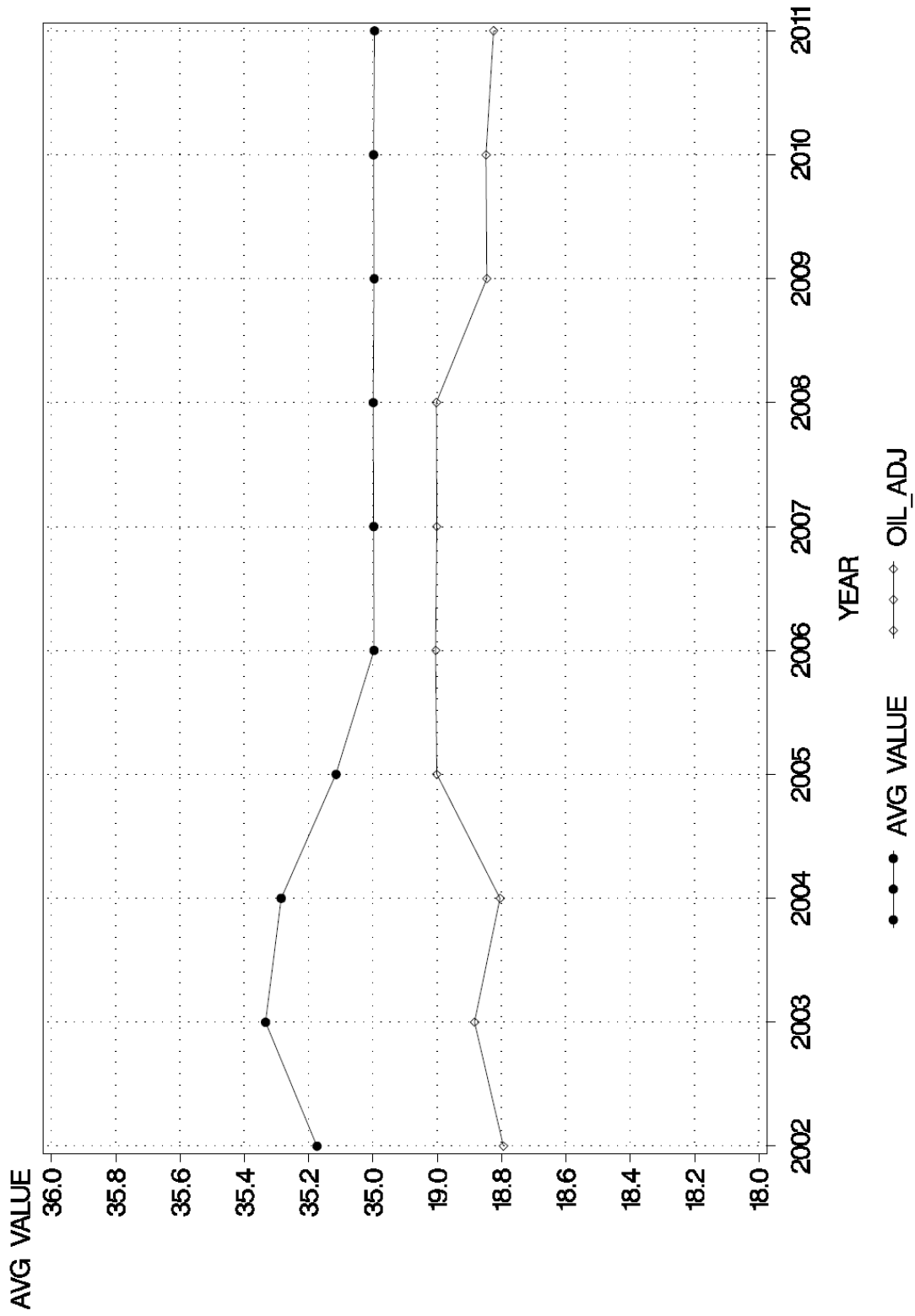
U.S. WHEAT EXPORTED, 2002—2011  
AVG DOCKAGE



**U.S. WHEAT EXPORTED, 2002—2011**  
**AVG PROTEIN(12% M) BY CLASS**

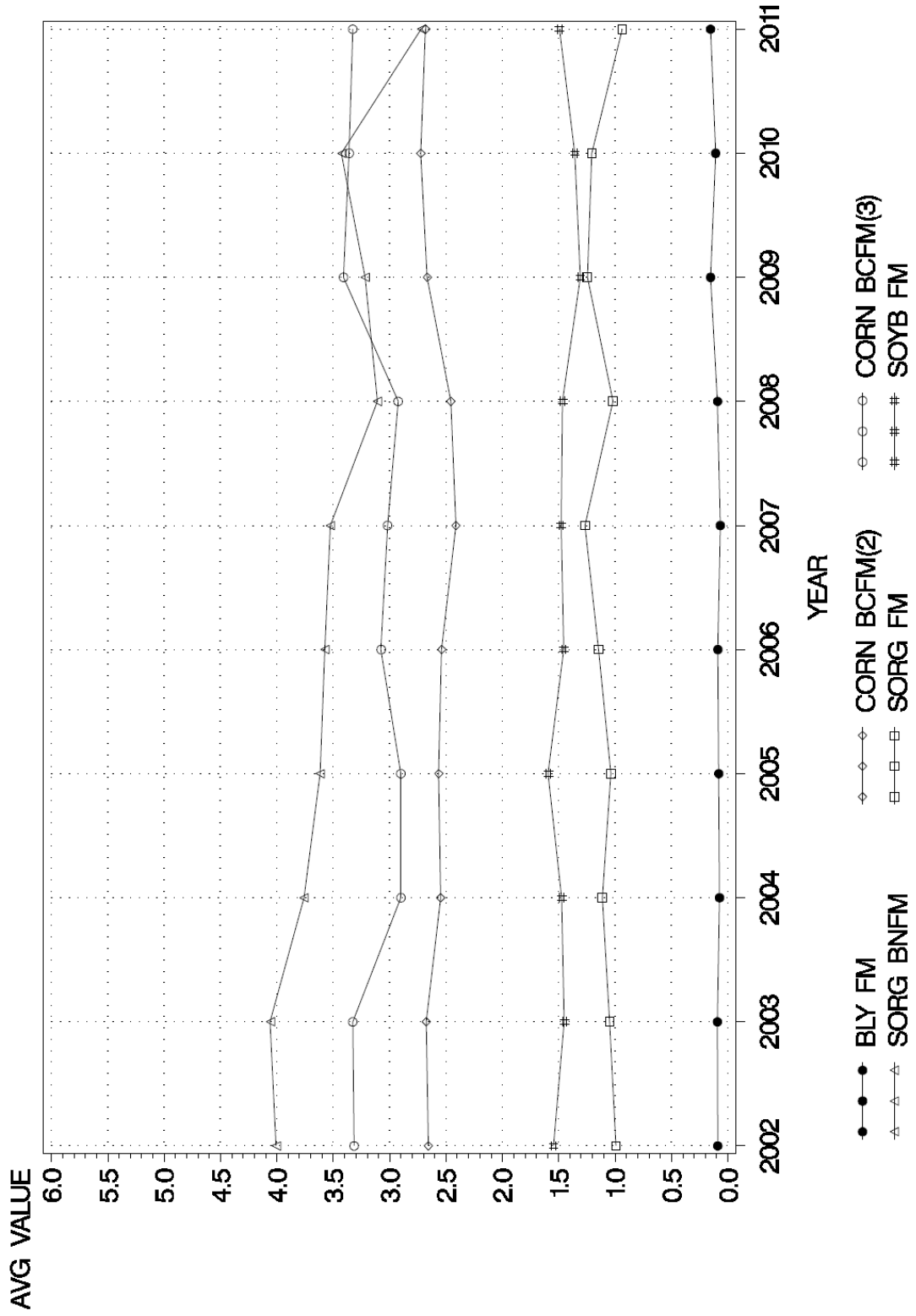


**U.S. SOYBEANS EXPORTED, 2002--2011**  
**AVG PROTEIN AND OIL (13% M)**



# U.S. GRAINS EXPORTED, 2002–2011

## AVG FM BNFM BCFM



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