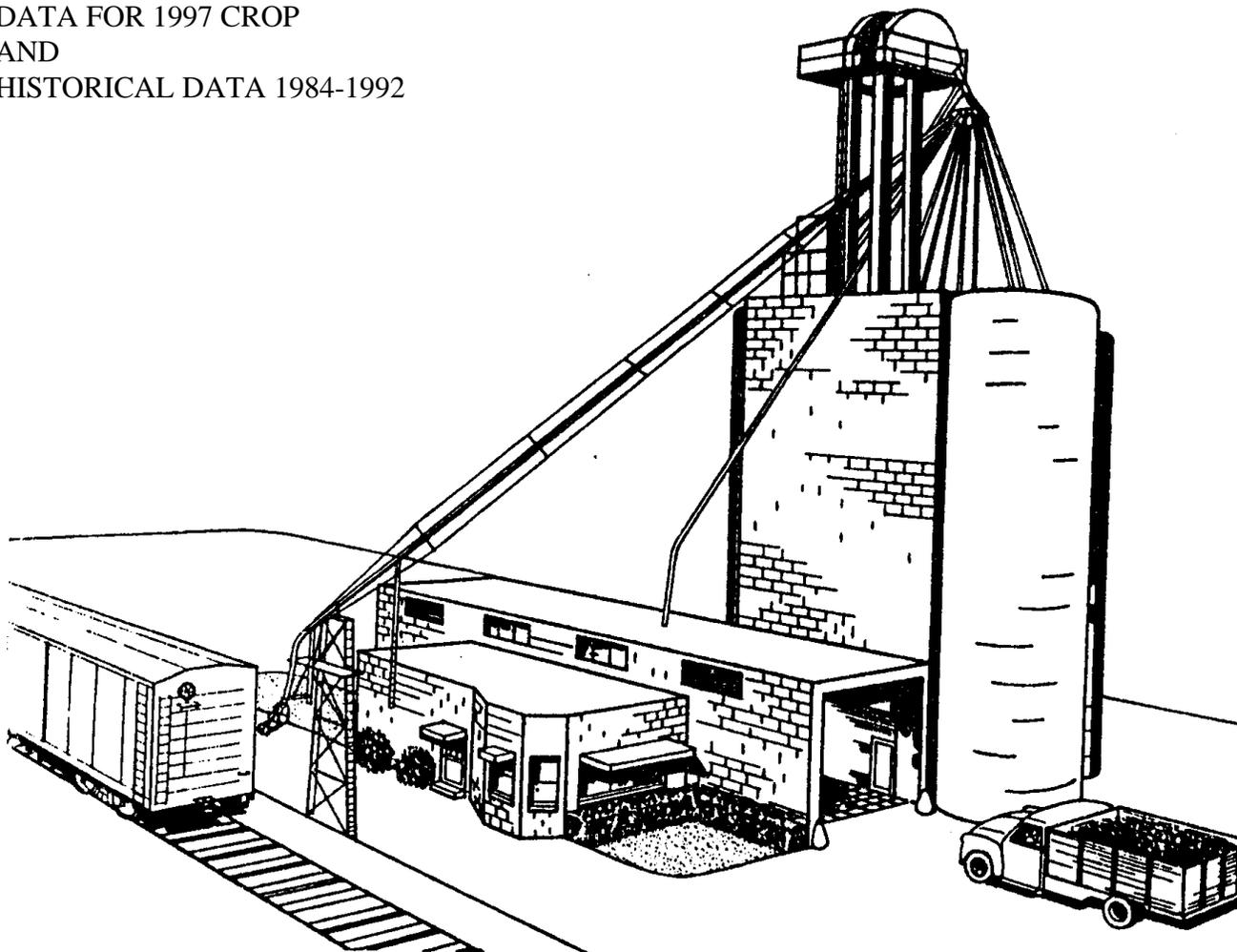


KANSAS

GRAIN TRANSPORTATION

DATA FOR 1997 CROP
AND
HISTORICAL DATA 1984-1992



KANSAS
AGRICULTURAL
STATISTICS

Fact Finding
For Agriculture

Kansas Department of Agriculture
U.S. Department of Agriculture

KANSAS GRAIN TRANSPORTATION

**DATA FOR 1997 CROP
AND
HISTORICAL DATA 1984-1992**

COMPILED BY
KANSAS AGRICULTURAL STATISTICS

In Cooperation With

U.S. Department of Agriculture
National Agricultural Statistics Service

Kansas Department of Agriculture
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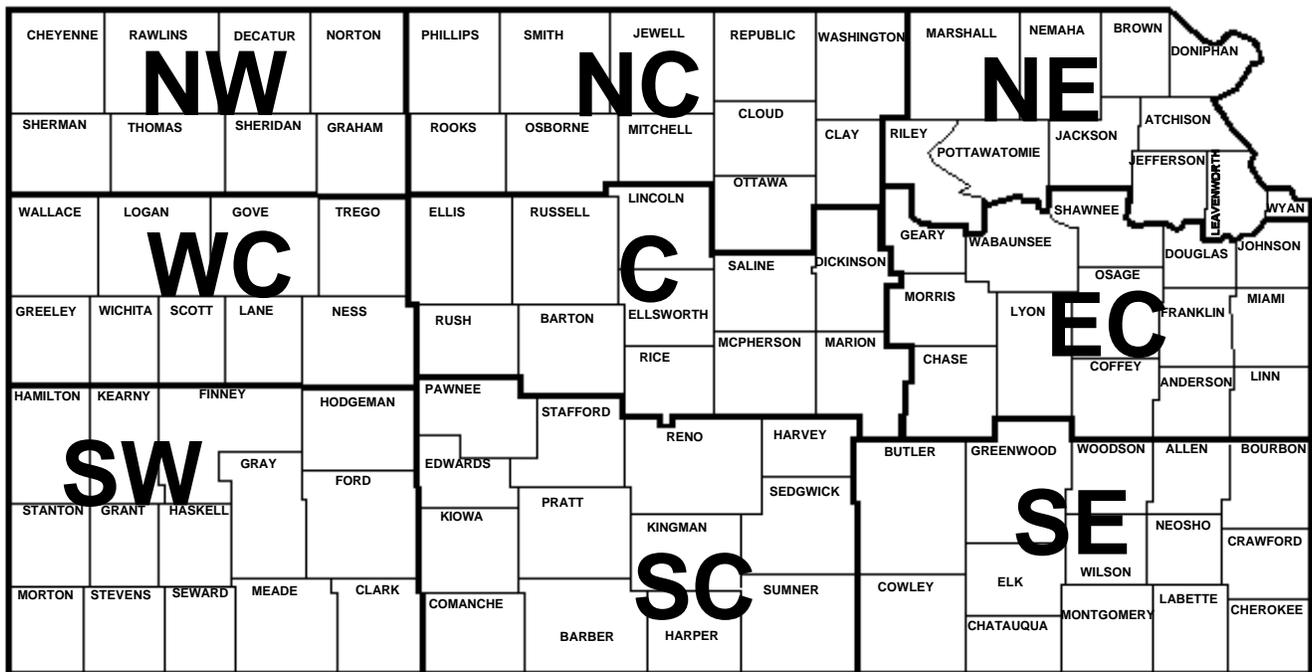
Issued March 1999

FORWARD

This report contains the summary of data reported by Kansas elevator operators in response to the Grain Transportation Survey. It provides basic information on the transportation of the four major grain crops harvested in Kansas during 1997--wheat, corn, sorghum grain, and soybeans. Historical data for crop years 1984-92 are also included for comparison purposes. A survey of this type was not conducted for the years 1985, 1986, and 1993-96. We welcome comments about these data, the presentation of the reports, and other areas that need exploration.

Special thanks are due to the more than 230 elevator operators who took time to report the data in this publication. Our appreciation also goes to David Frey, Administrator, Kansas Wheat Commission; Gary Gilbert, Assistant Administrator, Kansas Wheat Commission; Gary Bothwell, Kansas Grain Inspection Service, Inc.; and Tom Tunnel, Kansas Grain & Feed Association for their advice and assistance in defining survey content and designing the questionnaire.

KANSAS AGRICULTURAL STATISTICS DISTRICTS



Kansas is divided into nine agricultural statistics districts for convenience in compiling and presenting statistical information on crops and livestock. These nine districts are outlined on the above map. The districts are designated as follows: Northwest (NW), West Central (WC), Southwest (SW), North Central (NC), Central (C), South Central (SC), Northeast (NE), East Central (EC), and Southeast (SE).

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INTRODUCTION

Agriculture is one of Kansas' most important industries, of which grain production is a major component. Kansas ranked first in the nation in 1997 wheat production with a State record crop of just over 500 million bushels. Production of grain sorghum in Kansas also ranked number one in the U.S. with over 265 million bushels produced. Kansas had significant production of corn and soybeans in 1997 and ranked eighth in U.S. corn production and tenth in U. S. soybean production.

Final 1997 acreage, yield, and production of wheat, corn, sorghum for grain, and soybeans are presented by Agricultural Statistics Districts in the table below to aide in interpreting the data presented in this report. Also, note that items that should sum to 100 percent may not always equal 100 percent due to rounding.

KANSAS GRAIN PRODUCTION SUMMARY, 1997 CROP

District	Acres Harvested, (000)	Yield Per Acre, Bu.	Production, Bu. (000)	Acres Harvested, (000)	Yield Per Acre, Bu.	Production, Bu. (000)
	Wheat			Corn		
NW	1,160	37	42,920	446	126	56,170
WC	1,251	43	52,542	171	134	22,829
SW	1,839	37	68,043	820	181	148,395
NC	1,387	51	70,737	188	114	21,510
C	1,649	53	87,397	78	149	11,598
SC	2,460	49	120,891	285	160	45,655
NE	279	50	13,950	340	105	35,620
EC	290	50	14,500	190	110	20,983

GRAIN HANDLING AND TRANSPORTATION

Continual changes in the grain industry and related service industries present numerous challenges for commodity producers and grain companies in determining how to manage the handling and transport of grain. Many of the changes that occur impact not only how business will be conducted but may also affect the very viability of the companies involved.

To gain a better understanding of the present methods used to handle and transport Kansas grain, a survey of all Kansas elevators was conducted in 1998. The survey collected information about the receipts and shipments of the four major grains produced in Kansas and targeted the collection of information that describes practices such as grading, sampling, processing, and utilization of rail services. Since the marketing years for wheat, corn, sorghum grain, and soybeans do not coincide, information was obtained for the twelve-month period beginning June 1, 1997 and ending May 31, 1998.

The tables in this section of the report present data at the Agricultural Statistics district and State levels. For this survey, Kansas grain handlers were broken into three size groups: small country houses, large country houses, and terminals. Small country houses are non-terminal elevators with less than 1.5 million bushels of storage capacity. Large country houses are non-terminal elevators with capacities of 1.5 million bushels or more. Terminals receive most of their grain from other elevators. For the 1997 Grain Transportation Survey, there were not enough complete reports from terminals received to publish accurate data; however, terminal data is included in State estimates. All country elevators, terminals, and oil seed crushers were contacted by mail. Those not responding were then contacted by telephone.

RECEIPTS AND SHIPMENTS

Elevators continue to receive most of their grain by truck. For the 1997 crop, truck receipts accounted for 96 percent of the grain received by elevators in Kansas. Truck receipts were particularly dominant at small country elevators, representing 99 percent of total receipts. Large country elevators received 94 percent of all grain by truck.

Most of the grain received at elevators came directly from farmers. For the 1997 grain crops, 77 percent of all grain receipts came directly from farmers. Smaller elevators normally receive a larger percentage of grain directly from farmers. For small country elevators, 94 percent of all grain receipts came directly from farmers. Large country elevators had 69 percent direct shipments from farmers.

The leading mode of transportation for shipment has shifted from rail to truck service with truck shipments representing 58 percent of the grain shipments. Eighty-seven percent of all corn was shipped by truck, followed by soybeans at 77 percent, sorghum grain at 57 percent, and 47 percent for wheat.

**ALL GRAIN RECEIVED AT AND SHIPPED FROM KANSAS ELEVATORS
BY DISTRICT, BY TRANSPORT MODE
JUNE 1, 1997-MAY 31, 1998**

District/ Type of Elevator	Rail	Truck	From Farmers <u>1/</u>	Origin Outside Kansas	Rail	Truck	Unit Train <u>2/</u>
	Percent of Total Receipts				Percent of Shipments		
NW	-	100	100	10	33	67	15
WC	-	100	93	6	48	52	29
SW	1	99	84	2	34	66	25
NC	-	100	100	-	19	81	2
C	8	92	50	1	64	36	59
SC	-	100	87	1	36	64	18
NE	24	76	91	16	17	83	4
EC	8	92	41	20	62	38	17
SE	1	99	97	8	19	31	4
State	4	96	77	5	42	58	28
Sm Ctry Houses	1	99	94	3	19	81	4
Lrg Ctry Houses	6	94	69	6	53	47	39

See footnotes at bottom of page.

**ALL GRAIN RECEIVED AT AND SHIPPED FROM KANSAS ELEVATORS 3/ 4/
BY YEAR, BY TRANSPORT MODE**

Crop Year	Rail	Truck	From Farmers <u>1/</u>	Origin Outside Kansas	Rail	Truck	Barge	Unit Train <u>2/</u>
	Percent of Total Receipts				Percent of Total Shipments			
1984	17	83	76	NA	53	47	*	19
1987	20	80	68	14	60	40	-	23
1988	28	72	78	11	68	32	*	29
1989	19	81	79	10	60	39	1	21
1990	20	80	80	11	59	41	-	23
1991	13	87	80	8	57	43	*	27
1992	17	83	74	9	57	43	<u>5/</u>	18
1997	4	96	77	5	42	58	-	28

1/ Percent of truck receipts which were received from farmers. 2/ Also included in Rail. 3/ No data collected in 1985-86 and 1993-1996. 4/ For years prior to 1997, the data applied to July-June periods. 5/ Data not collected in 1992. * Less than .5 percent.

**GRAINS RECEIVED AT KANSAS ELEVATORS
BY DISTRICT, BY TRANSPORT MODE
JUNE 1, 1997-MAY 31, 1998**

District/ Type of Elevator	Rail	Truck	From	Origin	Rail	Truck	From	Origin
			Farmers 1/	Outside Kansas			Farmers 1/	Outside Kansas
Percent of Total Receipts								
	Wheat				Corn			
NW	-	100	100	11	-	100	100	12
WC	-	100	90	8	-	100	100	2
SW	-	100	75	3	1	99	92	1
NC	-	100	100	-	-	100	100	-
C	8	92	47	1	-	100	98	-
SC	-	100	85	1	-	100	99	-
NE	67	33	97	29	2	98	87	6
EC	7	93	50	-	-	100	60	8
SE	3	97	94	9	-	100	97	4
State	6	94	74	4	1	99	93	3
Sm Ctry Houses	1	99	91	3	2	98	92	5
Lrg Ctry Houses	8	92	66	4	-	100	93	2
	Sorghum Grain				Soybeans			
NW	-	100	100	2	-	100	100	-
WC	-	100	100	1	-	100	100	-
SW	-	100	74	5	-	100	60	-
NC	-	100	100	-	-	100	100	-
C	9	91	48	-	-	100	100	-
SC	-	100	85	-	-	100	89	-
NE	3	97	87	14	1	99	100	3
EC	-	100	68	4	11	89	28	35
SE	-	100	100	8	-	100	100	7
State	3	97	76	3	7	93	54	23
Sm Ctry Houses	-	100	98	1	-	100	100	2
Lrg Ctry Houses	5	95	65	3	9	91	39	30

1/ Percent of truck receipts which were received from farmers.

**GRAINS RECEIVED AT KANSAS ELEVATORS 1/ 2/
BY YEAR, BY TRANSPORT MODE**

Crop/Year	Rail	Truck	From Farmers <u>3/</u>	Origin Outside Kansas
Percent of Total Receipts				
Wheat				
1984	22	78	69	NA
1987	28	72	56	4
1988	35	65	71	10
1989	19	81	79	5
1990	20	80	77	8
1991	16	84	74	5
1992	23	77	71	8
1997	6	94	74	4
<hr style="border-top: 1px dashed black;"/>				
Corn				
1984	16	84	62	NA
1987	30	70	56	33
1988	16	84	90	15
1989	13	87	90	15
1990	20	80	93	19
1991	5	95	90	10
1992	7	93	77	12
1997	1	99	93	3
<hr style="border-top: 1px dashed black;"/>				
Sorghum Grain				
1984	8	92	89	NA
1987	7	93	90	5
1988	22	78	84	12
1989	19	81	81	11
1990	16	84	82	11
1991	12	88	86	9
1992	13	87	78	7
1997	3	97	76	3
<hr style="border-top: 1px dashed black;"/>				
Soybeans				
1984	2	98	86	NA
1987	10	90	72	*
1988	13	87	82	13
1989	22	78	59	27
1990	27	73	74	20
1991	10	90	81	15
1992	11	89	75	19
1997	7	93	54	23

1/ No data collected in 1985-1986 and 1993-1996. 2/ For years prior to 1997, the data applied to July-June periods. 3/ Percent of truck receipts which were received from farmers. NA-Not available. * Less than .5 percent

**GRAINS SHIPPED FROM KANSAS ELEVATORS
BY DISTRICT, BY TRANSPORT MODE
JUNE 1, 1997-MAY 31, 1998**

District/ Type of Elevator	Rail	Truck	Unit Train <u>1/</u>	Rail	Truck	Unit Train <u>1/</u>
	Percent of Total Shipments					
	Wheat			Corn		
NW	59	41	28	7	93	1
WC	67	33	41	-	100	-
SW	66	34	55	12	88	5
NC	25	75	2	4	96	-
C	64	36	59	4	96	-
SC	38	62	14	8	92	-
NE	15	85	6	11	89	4
EC	77	23	31	71	29	11
SE	22	78	6	4	96	-
State	53	47	36	13	87	4
Sm Ctry Houses	25	75	6	5	95	1
Lrg Ctry Houses	66	34	49	17	83	5
	Sorghum Grain			Soybeans		
NW	-	100	-	-	100	-
WC	5	95	2	-	100	-
SW	39	61	25	-	100	-
NC	16	84	1	7	93	-
C	68	32	63	3	97	-
SC	42	58	33	34	66	26
NE	17	83	4	22	78	3
EC	56	44	11	42	58	10
SE	26	74	3	10	90	2
State	43	57	33	23	77	7
Sm Ctry Houses	17	83	3	12	88	1
Lrg Ctry Houses	56	44	47	32	68	13

1/ Included in rail.

**GRAINS SHIPPED FROM KANSAS ELEVATORS 1/ 2/
BY YEAR, BY TRANSPORT MODE**

Crop/Year	Rail	Truck	Barge <u>3/</u>	Unit Train <u>4/</u>
Percent of Total Receipts				
Wheat				
1984	79	21	*	29
1987	77	23	-	29
1988	80	20	*	37
1989	69	30	1	22
1990	63	37	-	28
1991	65	34	*	28
1992	68	32		32
1997	53	47	-	36
<hr style="border-top: 1px dashed black;"/>				
Corn				
1984	46	54	-	22
1987	58	42	-	40
1988	38	62	-	6
1989	32	68	*	11
1990	38	62	-	8
1991	20	80	*	8
1992	33	67		11
1997	13	87	-	4
<hr style="border-top: 1px dashed black;"/>				
Sorghum Grain				
1984	25	75	-	9
1987	43	57	-	8
1988	61	39	*	26
1989	64	36	*	27
1990	65	35	-	23
1991	58	42	-	32
1992	48	52		19
1997	43	57	-	33
<hr style="border-top: 1px dashed black;"/>				
Soybeans				
1984	20	80	-	3
1987	39	61	-	28
1988	48	52	*	2
1989	33	67	*	9
1990	48	52	-	14
1991	49	51	-	29
1992	49	51		27
1997	23	77	-	7

1/ No data collected in 1985-1986 or 1993-1996. 2/ For years prior to 1997, the data applied to July-June periods. 3/ Data not collected for 1992. 4/ Included in rail. * Less than .5 percent.

WHEAT RAIL SHIPMENTS FROM ELEVATORS, BY NUMBER OF CARS
JUNE 1, 1997-MAY 31, 1998

District	Less Than 24 Cars	24-49 Cars	50 or More Cars
Percent of Shipments			
NW	84	-	16
WC	32	26	42
SW	12	18	70
NC	70	30	-
C	8	29	63
SC	25	42	33
NE	60	-	40
EC	-	-	100
SE	56	-	44
State	22	25	53
<hr style="border-top: 1px dashed black;"/>			
Sm Ctry Houses	63	24	13
Lg Ctry Houses	15	26	59

CORN RAIL SHIPMENTS FROM ELEVATORS, BY NUMBER OF CARS
JUNE 1, 1997-MAY 31, 1998

District	Less Than 24 Cars	24-49 Cars	50 or More Cars
Percent of Shipments			
NW	100	-	-
WC	-	-	-
SW	-	81	19
NC	100	-	-
C	100	-	-
SC	100	-	-
NE	100	-	-
EC	-	86	14
SE	-	-	100
State	18	68	14
<hr style="border-top: 1px dashed black;"/>			
Sm Ctry Houses	69	27	4
Lg Ctry Houses	12	72	16

SORGHUM RAIL SHIPMENTS FROM ELEVATORS, BY NUMBER OF CARS

JUNE 1, 1997-MAY 31, 1998

District	Less Than 24 Cars	24-49 Cars	50 or More Cars
Percent of Shipments			
NW	-	-	-
WC	35	65	-
SW	33	52	15
NC	52	48	-
C	3	38	59
SC	3	23	74
NE	63	-	37
EC	-	84	16
SE	26	-	74
State	10	38	52
<hr style="border-top: 1px dashed black;"/>			
Sm Ctry Houses	50	28	22
Lg Ctry Houses	4	39	57

SOYBEAN RAIL SHIPMENTS FROM ELEVATORS, BY NUMBER OF CARS

JUNE 1, 1997-MAY 31, 1998

District	Less Than 24 Cars	24-49 Cars	50 or More Cars
Percent of Shipments			
NW	-	-	-
WC	-	-	-
SW	-	-	-
NC	44	56	-
C	100	-	-
SC	5	95	-
NE	84	-	16
EC	-	20	80
SE	78	-	22
State	28	30	42
<hr style="border-top: 1px dashed black;"/>			
Sm Ctry Houses	74	6	20
Lg Ctry Houses	10	39	51

**MAJOR DESTINATIONS BY RAIL
JUNE 1, 1997-MAY 31, 1998**

By Districts											By Type of Elevator	
Crop/Destination	NW	WC	SW	NC	C	SC	NE	EC	SE	State	Small Ctry Houses	Large Ctry Houses
Percent of Total Shipments <u>2/</u>												
Wheat <u>1/</u>												
Atchison, Kansas			0.5	3.5			2.9			0.3	1.2	0.1
Hutchinson, Kansas		20.4	3.6		0.9	7.5				5.7	4.6	5.9
Kansas City, KS & MO	28.8	22.6	9.9	59.5	11.9	1.3	59.8		53.9	15.5	36.3	11.8
Salina, Kansas	42.5	2.8		21.7	1.3					4.2	14.2	2.3
Topeka, Kansas			0.5	12.2		0.8	9.6			0.8	4.0	0.3
Wichita, Kansas		2.6	0.7	2.7	1.0	28.6				5.9	11.8	4.9
Other Kansas	17.0		1.4		23.3	28.7				15.0	4.0	17.0
California			4.8			3.2				1.3	7.6	0.1
St. Louis, Missouri		9.1	5.4	0.4	0.5	0.3				2.7	1.9	2.8
Other Missouri					8.7					3.4		4.0
Nebraska	2.2									0.1	0.7	
Port of Catoosa, OK									46.1	0.7	2.3	0.4
Texas Gulf Ports	6.9	22.8	65.6		44.9	29.5				36.8	6.5	42.3
Pacific Northwest		16.1								2.8		3.3
Mexico			3.0		7.5					3.4	2.9	3.4
All Other Destinations	2.6	3.6	4.6				27.6			1.5	1.8	1.4
Corn <u>3/</u>												
Atchison, Kansas							33.3			0.1	2.1	
Kansas City, KS & MO							16.7			0.1	1.0	
Kansas Feedlots				11.5	43.7					0.4	6.2	
Topeka, Kansas							33.3			0.1	2.1	
Other Kansas						80.3		100.0		41.8		45.0
Arizona			5.3							2.6		2.8
Arkansas			48.0	88.5					100.0	24.9	22.0	25.2
Texas Gulf Ports	78.4									4.2		4.5
Texas Inland Cities	21.6		45.6		56.3	11.0				24.5	64.5	21.5
All Other Destinations			1.1			8.8	16.7			1.2	2.0	1.2

1/ Not published in East Central District due to insufficient data. 2/ May not add to 100 percent due to rounding. 3/ No rail shipments reported in West Central District.

MAJOR DESTINATIONS BY RAIL
JUNE 1, 1997-MAY 31, 1998

By Districts											By Type of Elevator	
Crop/Destination	NW	WC	SW	NC	C	SC	NE	EC	SE	State	Small Ctry Houses	Large Ctry Houses
Percent of Total Shipments <u>2/</u>												
Sorghum Grain <u>1/</u>												
Atchison, Kansas							4.1			0.1	0.8	
Hutchinson, Kansas					0.5	1.5				0.7	2.1	0.4
Kansas City, KS & MO				20.4			44.7			2.2	16.2	
Salina, Kansas				17.4						0.9	6.6	
Topeka, Kansas				13.6			33.0			1.6	11.4	
Wichita, Kansas					0.4	13.1	15.1			3.5	4.4	3.4
Other Kansas			2.9		9.5	0.4		100.0		6.1	3.5	6.5
Arkansas		32.4			4.5	18.4	3.1		100.0	9.8	15.5	8.8
California			43.9			3.5				4.2	5.5	4.0
Colorado												
Illinois					2.3					1.3		1.5
Texas Feedlots						1.4				0.3	2.2	
Texas Gulf Ports		35.2	13.7	33.7	45.5	59.7				42.9	12.8	47.7
Texas Inland Cities			20.2		1.5					2.5	6.6	1.8
Mexico		32.4	11.0		35.4	2.1				22.3	3.3	25.3
All Other Destinations			8.2	14.8	0.4					1.7	9.0	0.5
Soybeans <u>3/</u>												
Atchison, Kansas							4.4			0.9	3.5	
Emporia, Kansas					95.8					0.8	3.2	
Fredonia, Kansas									22.1	1.9	7.0	
Kansas City, KS & MO							16.9	40.0		22.1	13.5	25.3
Topeka, Kansas							4.4			0.9	3.5	
Wichita, Kansas				43.9	0.8	13.6				4.0	4.5	3.8
Other Kansas						5.1				1.0		1.4

MAJOR DESTINATIONS BY TRUCK
JUNE 1, 1997-MAY 31, 1998

By Districts											By Type of Elevator	
Crop/Destination	NW	WC	SW	NC	C	SC	NE	EC	SE	State	Small Ctry Houses	Large Ctry Houses
Percent of Total Shipments ^{1/}												
Wheat												
Atchison, Kansas				0.1	1.5		13.1			0.8	0.9	0.7
Hutchinson, Kansas		12.3	21.7		11.5	30.5			2.8	15.0	17.4	12.7
Kansas City, MO & KS	9.7	5.2	8.6	1.6	0.3		5.7	25.4	9.5	3.0	4.0	2.1
Salina, Kansas	1.8	11.7	2.0	52.6	20.3	0.8				14.0	13.6	14.6
Topeka, Kansas			5.6	12.2	0.6	1.0	61.0	64.3	1.8	5.9	7.9	3.6
Wichita, Kansas	0.3	11.3	13.4	0.1	46.2	28.3	20.1		52.6	25.0	17.1	32.8
Other Kansas	63.2	53.9	37.0	21.9	19.5	24.2	0.1	10.0	2.7	25.9	28.4	23.4
Nebraska	25.1	2.0		10.8						2.7	4.5	1.1
Enid, Oklahoma						14.1				4.2	3.7	4.7
Port of Catoosa, OK						1.0			30.5	2.0	2.0	2.0
Texas Gulf Port			7.9					0.2		0.7		1.3
All Other Destinations		3.6	3.8	0.7					0.2	0.7	0.5	0.8
Corn												
Atchison, Kansas				0.9			19.3			1.1	3.7	
Emporia, Kansas							8.0	7.0	0.2	0.6	0.5	0.7
Kansas City, MO & KS					4.5		3.8	8.3		0.5	1.3	0.2
Topeka, Kansas				7.0		2.2	51.3	32.8	1.4	4.2	9.1	2.1
Kansas Feedlots	53.8	42.1	61.2	50.0	18.6	59.8	0.9	2.4	10.8	51.4	43.8	54.8
Other Kansas	30.2	55.9	9.1	20.1		11.7		12.0		15.6	18.8	14.1
Arkansas								31.2	59.4	1.5	1.5	1.6
CO Feedlots	8.6	0.3	1.3							1.7	3.0	1.1
Oklahoma Feedlots			5.6	9.6	5.5	3.3			3.6	3.9	1.9	4.8
Other Oklahoma			1.6		70.5	22.4		1.9	13.7	5.5	3.1	6.5
Texas Feedlots	7.3		14.3	9.0						8.7	2.6	11.4
Texas Inland Cities		1.6	7.0			0.4	4.0			4.1	8.3	2.2
All Other Destinations				3.4	0.9	0.2	12.8	4.5	11.0	1.1	2.4	0.6

^{1/} May not add to 100 percent due to rounding.

MAJOR DESTINATIONS BY TRUCK
JUNE 1, 1997-MAY 31, 1998

By Districts											By Type of Elevator	
Crop/Destination	NW	WC	SW	NC	C	SC	NE	EC	SE	State	Small Ctry Houses	Large Ctry Houses
Percent of Total Shipments <u>1/</u>												
Sorghum Grain												
Atchison, Kansas				1.0			27.2			2.6	5.6	
Hutchinson, Kansas					43.1	26.0			3.1	14.4	14.0	14.9
Kansas City, MO & KS				0.2	0.3			1.1		0.2	0.2	0.1
Salina, Kansas				54.1	22.9					15.2	15.0	15.5
Topeka, Kansas				6.2			55.9	41.0	0.6	7.9	15.2	1.5
Wichita, Kansas					1.0	6.7	7.1		10.2	2.9	4.1	1.8
Kansas Feedlots	30.3	41.6	37.3	6.4	1.0	15.9	2.8	11.8	0.3	13.3	10.1	15.5
Other Kansas	61.3	53.0	29.9	21.5	20.4	38.5	3.0	3.1	8.0	26.1	19.7	32.1
Arkansas						4.1		36.8	39.7	4.7	3.4	5.9
Nebraska	8.3			10.2						2.1	4.3	0.3
Oklahoma Feedlots		0.2	7.7	0.5		2.4			4.1	1.6	1.5	1.6
Other Oklahoma		2.2	14.3		11.2	5.5			21.2	6.1	4.4	7.7
Texas Feedlots			8.3							0.7		1.4
Texas Gulf Ports			0.1									
Texas Inland Cities		2.5	1.1				2.8			0.6	0.2	0.9
Texas Gulf Ports			0.1									
All Other Destinations		0.6	1.2			1.0	1.1	6.2	13.0	1.5	2.3	0.6
Soybeans												
Atchison, Kansas							5.1			1.1	2.1	
Emporia, Kansas		10.4	16.6	37.2	19.3	4.2	34.4	67.5	6.4	28.4	25.3	31.0
Fredonia, Kansas								0.5	44.6	10.0	11.2	8.6
Hutchinson, Kansas		11.6			8.8	7.9	0.3		6.7	3.2	1.9	4.9
Kansas City, MO & KS							2.2	15.3		3.4	1.5	5.8
Salina, Kansas	1.3			0.6	6.4					0.6	1.0	0.2
Topeka, Kansas			35.2	6.9			20.3	5.2		6.8	7.0	6.6
Wichita, Kansas	17.5	39.5	29.8	50.0	63.6	84.3		6.8	19.6	27.4	22.5	33.8
Kansas Feedlots						3.6			2.8	1.1	1.2	0.9
Other Kansas	80.6	38.5	9.8	0.2	1.9			4.7	3.1	5.2	8.7	1.1
St. Joseph, Missouri							29.1			6.5	11.1	1.0
St. Louis, Missouri							8.5			1.9	3.5	
Nebraska	0.6			5.2						0.6	1.1	
Port of Catoosa, OK									11.6	2.6	2.0	3.3
Texas Gulf Ports			8.6						4.9	1.2		2.7
All Other Destinations									0.3	0.1	0.1	

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

MAJOR DESTINATIONS, HISTORIC 1/
JUNE 1, 1997-MAY 31, 1998 2/

By Districts								
Crop/Destination	1984	1987	1988	1989	1990	1991	1992	1997
	Percent of Total Shipments <u>3/</u>							
Wheat								
Atchison, Kansas	0.8	0.2	0.4	1.5	1.4	0.6	1.0	0.5
Hutchinson, Kansas	6.6	5.1	3.4	7.0	3.5	5.3	5.7	10.2
Kansas City, MO & KS	18.1	21.6	17.7	26.6	22.1	15.9	16.0	9.5
Salina, Kansas	6.1	3.6	4.2	7.0	6.6	6.1	5.5	8.9
Topeka, Kansas	3.1	2.3	2.5	5.4	5.8	4.2	2.7	3.3
Wichita, Kansas	4.7	8.9	6.3	11.6	6.3	4.5	7.2	15.1
Other Kansas	5.7	7.4	10.4	15.9	17.5	18.3	33.0	20.3
California							0.7	0.7
St. Louis, Missouri	0.2	0.3	0.1		0.2	1.4	3.1	1.4
Other Missouri							0.6	1.4
Nebraska	0.5	0.2	0.3	0.5	0.5	1.0	1.3	1.7
Enid, Oklahoma	5.2	5.0	1.6	2.3	1.0	0.7	0.4	2.0
Port of Catoosa, Oklahoma	0.1	0.1	0.5	0.4	1.3	1.2	0.6	1.3
Pacific Northwest		0.5						1.7
Texas Gulf Ports	28.0	41.8	19.2	14.8	20.7	24.8	14.1	19.3
Mexico			1.6	2.7	2.7	3.4	2.7	1.4
All Other Destinations	20.9	3.0	31.8	4.3	10.4	12.6	5.4	1.3
Corn								
Atchison, Kansas	1.4	2.3	1.3	0.8	1.2	0.3	1.0	1.0
Emporia, Kansas	0.1	0.1	0.1	0.1				0.5
Kansas City, MO & KS	1.8	12.0	2.8	2.3	3.4	1.1	1.3	0.5
Topeka, Kansas	1.4	0.4	4.5	1.6	3.0	0.1	4.2	3.7
Kansas Feedlots	22.2	45.7	36.6	48.3	34.6	47.7	26.9	44.8
Other Kansas	20.6	3.5	9.9	10.1	17.6	19.3	43.7	19.0
Arkansas	28.5	7.3	9.7	13.5	23.9	1.8	7.0	4.6
Oklahoma Feedlots	5.5	4.0	2.2	2.7	2.3	8.5	5.5	3.4
Other Oklahoma	0.7	4.7	2.3	7.8	3.0	1.7	1.6	4.8
Texas Feedlots	1.0	3.3	7.1	5.4	4.2	4.3	1.9	7.5
Texas Gulf Ports	0.4	1.3	13.7	*		2.6	1.3	0.5
Texas Inland Cities	10.8	2.5	5.7	2.9	1.4	6.9	1.7	6.7
All Other Destinations	5.6	12.9	4.1	4.5	5.4	5.7	3.8	1.5

1/ No data collected in 1985-1986 and 1993-1996. 2/ Data prior to 1997 was for the period July-June. 3/ May not add to 100 percent due to rounding. * Less than .1 percent.

MAJOR DESTINATIONS, HISTORIC 1/
JUNE 1, 1997-MAY 31, 1998 2/

By Districts								
Crop/Destination	1984	1987	1988	1989	1990	1991	1992	1997
	Percent of Total Shipments <u>3/</u>							
Sorghum Grain								
Atchison, Kansas	0.8	0.3	0.7	1.5	1.8	1.4	0.9	1.6
Hutchinson, Kansas	1.3	17.5	2.4	5.6	3.8	2.6	6.9	8.7
Kansas City, MO & KS	2.2	3.2	8.7	11.9	9.2	6.1	6.6	1.0
Salina, Kansas	3.3	0.8	1.7	3.2	3.8	1.8	6.5	9.2
Topeka, Kansas	1.4	5.3	1.9	2.2	1.9	2.5	5.6	5.3
Wichita, Kansas	0.4	0.5	1.0	2.7	1.1	0.8	2.3	3.1
Kansas Feedlots	34.8	40.6	17.6	24.2	14.0	19.2	8.1	7.7
Other Kansas	6.1	6.8	13.8	9.8	19.2	19.4	31.4	17.7
Arkansas	2.1	0.8	5.3	8.3	11.6	3.5	3.9	6.8
California	5.0	6.7	4.7	2.2	1.8	2.4	0.1	1.8
Illinois								0.6
Nebraska	0.3			0.1		0.2	0.3	1.2
Oklahoma Feedlots	1.0	0.1	1.2	2.2	0.9	0.5	0.1	0.9
Other Oklahoma								3.6
Texas Feedlots	2.6	0.1	2.5	1.3	0.9	2.4	0.4	0.6
Texas Gulf Ports	6.9	3.0	8.7	9.2	10.5	1.9	8.4	17.9
Texas Inland Cities	4.2	0.1	20.2	4.3	3.1	6.9	0.2	1.4
Mexico	4.8	1.5	2.4	5.3	10.3	18.6	7.3	9.3
All Other Destinations	22.8	12.7	7.2	6.0	6.1	9.8	1.1	1.6
Soybeans								
Atchison, Kansas	0.7	0.3		0.4	1.1	0.5		1.1
Emporia, Kansas	40.1	18.1	28.3	30.1	24.5	28.6	24.2	22.1
Fredonia, Kansas	3.8	32.6	7.7	8.6	6.6	8.1	7.0	8.1
Hutchinson, Kansas	15.4			*	0.9	1.2	0.9	2.5
Kansas City, MO & KS	1.4	3.3	7.4	15.4	22.1	4.1	8.0	7.6
Salina, Kansas	0.9	0.3	0.2	0.2	0.1	0.2	0.2	0.5
Topeka, Kansas	0.4	0.2	0.4	1.6	1.1	1.0	3.3	5.4
Wichita, Kansas	20.9	8.2	23.1	25.8	11.0	13.7	8.9	22.1
Kansas Feedlots								0.8
Other Kansas	2.6	1.3	3.9	0.7	4.5	12.4	17.7	4.3
St. Joseph, Missouri	3.7	1.5	4.9	4.7	3.3	4.8	3.0	7.7
St. Louis, Missouri								1.5
Other Missouri	2.2	1.3	0.6	*			0.8	0.8
Nebraska	0.2	0.1	0.9	0.2	0.8	*	0.1	0.5
Port of Catoosa, Oklahoma								2.9
Texas Gulf Ports	1.0	0.6		2.2	1.4	8.5	2.6	3.4
Mexico		11.6	13.5		21.9	16.5	19.7	8.5
All Other Destinations	6.7	20.6	9.5	10.1	0.7	0.4	3.6	0.2

1/ No data collected in 1985-1986 and 1993-1996. 2/ Data prior to 1997 was for period July-June.. 3/ May not add to 100 percent due to rounding. * Less than .1 percent.

GRADING AND SAMPLING

Over 90 percent of the responding elevators sample incoming grain. Of those sampling, the most commonly used method of extracting samples was hand probe. Factors commonly tested include moisture, test weight, foreign material, protein content, insect infestation, and dockage.

**PERCENT OF KANSAS ELEVATORS SAMPLING GRAIN ON RECEIVING BY DISTRICT
JUNE 1, 1997-MAY 31, 1998**

Crop/Destination	NW	WC	SW	NC	C	SC	NE	EC	SE	State	Small Ctry Houses	Large Ctry Houses
	Percent of Elevators Receiving Grain											
Did Sampling	100	100	88	96	93	91	92	78	80	91	90	93
Extracted Samples by <u>1/</u>												
Hand Probe	69	72	33	77	68	59	78	93	94	69	77	52
Mechanical	38	28	76	27	36	49	35	21	13	38	28	60
Other						2				1		2
Grading Factors Tested												
Moisture	100	100	100	100	100	100	100	100	100	100	100	100
Test Weight	100	100	100	100	100	100	100	100	100	100	100	100
Foreign Material	94	78	81	91	75	90	91	100	94	87	87	89
Protein Content	25	33	10	9	21	15	4	14	6	15	11	23
Oil Content								7		1		2
Insect Infestation	63	72	76	68	50	61	87	57	69	66	64	71
Dockage	75	61	86	82	75	90	70	64	44	75	74	76
Other	31	33	52	23	36	39	48	50	31	38	35	44
Milling Quality/ Variety Specific		11			7	5		7		4	4	
Organic/Pesticide Free	13					2	4			2	1	3

1/ May exceed 100 percent if elevators reported using more than one method for sampling grain.

**KANSAS ELEVATORS SAMPLING GRAIN SHIPMENTS FOR GRADE DETERMINATION 1/
BY DISTRICT, JUNE 1, 1997-MAY 31, 1998**

District/ Type of Elevator	Sampling Rail Shipments	Sampling Truck Shipments	Sample Obtained by			Sampling Done by			Grade Determined by <u>2/</u>	
			Hand Probe	Mechan. Pneumatic	Other	Employee	Contract Sampler	KGID (State)	KGID (State)	Other
Percent of Elevators <u>3/</u>										
NW	92	39	85	31	-	31	38	54	100	8
WC	86	36	86	43	-	36	57	29	86	21
SW	67	54	63	50	-	54	17	46	67	42
NC	69	38	100	-	-	38	38	31	88	19
C	65	47	53	47	-	53	18	41	76	35
SC	80	32	72	32	-	36	36	40	84	20
NE	85	31	100	8	-	23	31	62	92	8
EC	43	71	86	14	14	71	14	29	71	43
SE	75	50	75	-	25	50	-	50	75	25
State	74	42	77	30	2	42	30	42	82	25
Sm Ctry Houses	73	41	87	18	1	39	30	42	82	20
Lrg Ctry Houses	75	44	63	48	2	44	29	42	81	29

1/ Sampling of barge shipments not published due to insufficient data. 2/ Grade determination by FGIS (Federal) not published due to insufficient data. 3/ May exceed 100 percent if elevators reported using more than one method for sampling grain.

Seventy-four percent of those elevators responding stated they sampled rail shipments and 42 percent sampled truck shipments. The most commonly used method of sampling was by hand probe with 77 percent. Forty-two percent replied that the sampling was done by an employee. This matches the percent of elevators using Kansas Grain Inspection Service, Inc. determination when grading the samples. Thirty percent had sampling performed by a contract sampler. KGIS determined 82 percent of those grades.

**KANSAS ELEVATORS SAMPLING GRAIN SHIPMENTS 1/ 2/
FOR GRADE DETERMINATION, BY YEAR**

Crop Year/ Type of Elevator	Percent of Elevators Sampling		Of Elevators Sampling, Percent Using		
	Rail <u>3/</u>	Truck <u>3/</u>	FGIS (Federal)	KGIS (State)	Other <u>4/</u>
1984 State Av.	60	9	7	99	
1987 State Av.	62	10	6	98	
1988 State Av.	70	9	11	96	
Sm Ctry Houses	66	7	8	95	
Lg Ctry Houses	86	13	19	96	
Terminals	100	28	22	100	
1989 State Av.	88	17	4	97	
Sm Ctry Houses	87	16	4	97	
Lg Ctry Houses	92	15	2	98	
Terminals	100	100		100	
1990 State Av.	84	18	2	99	
Sm Ctry Houses	83	17	1	99	
Lg Ctry Houses	82	21	5	97	
Terminals	100	63	8	100	
1991 State Av.	92	19	8	98	
Sm Ctry Houses	93	17	6	98	
Lg Ctry Houses	93	30	10	95	
Terminals	75	60	33	100	
1992 State Av.	92	23	5	89	8
Sm Ctry Houses	90	20	4	88	9
Lg Ctry Houses	100	37	12	93	2
Terminals	78	100	14	100	
1997 State Av.	74	42	1	82	25
Sm Ctry Houses	73	41	1	82	20
Lg Ctry Houses	75	44	-	81	29

1/ No data collected in 1985-86 or 1993-1996. 2/ For years prior to 1997, the data applied to July-June periods. 3/ The method for calculating these percentages has been revised. Starting in 1989, the percentages of elevators sampling shipments by specific modes (rail and truck) are derived using only

GRAIN QUALITY ADJUSTMENTS

The 1997 Grain Transportation survey collected information about price deductions or premiums paid for the four grains targeted in the questionnaire. Price discounting was reported for all of the grains. Fifty-eight percent of the elevators reporting indicated that they started discounting the price paid for wheat at an average of 0.5 percent dockage. For corn, 16 percent of the elevators said they started discounting price at an average of 1.3 percent dockage. Eighteen percent of the reporting Kansas elevators stated that discounts on sorghum began at an average of 1.5 percent dockage. Finally, 46 percent of the elevators reporting indicated that soybean price discounts started at an average of .8 percent dockage.

Information regarding premiums paid for wheat, corn, and soybeans was also collected. Of the elevators responding, premiums were reported being paid only for wheat. Seven percent of the elevators responding statewide reported offering premiums for wheat. Most of these elevators paying premiums were located in the Central and South Central districts of the State. Elevators indicated that they began paying a price premium at an average of 12 percent protein.

DOCKAGE RESULTING IN PRICE DISCOUNT, 1997 KANSAS GRAIN MARKETED, BY DISTRICT

Crop/District	% Reporting Discount for Dockage	Dockage % at Which Discount Began	Avg. % at Which Discount Began	% Reporting Discount for Dockage	Dockage % at Which Discount Began	Avg. % at Which Discount Began
		Range			Range	
Wheat			Corn ^{1/}			
NW	61	0.1-1.4	0.3	22	0.1-5.0	1.9
WC	61	0.1-1.0	0.4			
SW	69	0.1-1.5	0.5	12	0.5-1.5	1.0
NC	63	0.1-0.6	0.2	13	0.1-4.0	1.7
C	63	0.1-1.0	0.4			
SC	83	0.1-2.0	0.6	22	0.2-2.0	0.8
NE	19	0.1-0.5	0.3	27	0.1-5.0	1.7
EC	29	0.1-3.1	1.0	24	0.1-3.1	1.3
SE	46	0.1-1.1	0.4			
State	58	0.1-3.1	0.5	16	0.1-5.0	1.3
Sorghum Grain ^{1/}			Soybeans			
NW	22	0.1-8.1	4.4	39	1.0-1.1	1.1
WC				22	1.0-1.1	1.1
SW	12	0.5-1.5	1.0	50	0.1-1.5	0.9
NC				54	0.1-1.1	0.8
C	13	0.5-2.5	1.8	38	0.1-1.1	0.6
SC	32	0.3-8.0	1.2	60	0.1-2.0	0.8
NE	23	0.1-8.0	1.9	46	0.1-1.0	0.9
EC	24	0.1-5.1	1.5	43	0.1-1.3	0.5
SE	14	0.1-0.1	0.1	41	0.1-1.1	0.5
State	18	0.1-8.1	1.5	46	0.1-2.0	0.8

^{1/} Some districts were not published due to insufficient data.

GRAIN PROCESSING

Some elevators process grain for feed on site. Corn or sorghum grain are the usual grains processed for feed. For the crop year June 1997-May 1998, 5 percent of the corn and 5 percent of the sorghum received at elevators was processed on site into feed. A small percentage of wheat was processed for feed, but a much larger percent of wheat was processed on site for flour. For the 1997 crop year, 8 percent of the total wheat received at elevators was processed for flour. Elevators reported processing 52 percent of soybeans received on site. Most of the soybeans processed were on reports from the East Central District. Too few reports were obtained to publish soybean processing data by district.

GRAIN PROCESSED ON SITE AT KANSAS ELEVATORS BY DISTRICT JUNE 1, 1997-MAY 31, 1998

District/ Type of Elevator	Percent of Total Receipts Processed for Feed			Percent of Total Receipts Processed for Flour
	Wheat	Corn	Sorghum Grain	Wheat <u>1/</u>
NW	--	3	6	
WC	<u>2/</u>	1	2	
SW	<u>2/</u>	2	3	
NC	-	5	6	
C	1	36	5	10
SC	*	5	6	8
NE	*	15	6	<u>2/</u>
EC	<u>2/</u>	6	4	
SE	10	30	13	<u>2/</u>
State	1	5	5	8
Sm Ctry Houses	2	7	7	9
Lrg Ctry Houses	-	4	4	8

1/ Data first collected in 1992. 2/ Not published due to insufficient data. * Less than .5 percent.

GRAINS PROCESSED ON SITE AT KANSAS ELEVATORS, BY YEAR 1/ 2/

Crop Year/ Type of Elevator	Percent of Total Receipts Processed for Feed			Percent of Total Receipts Processed for Flour
	Wheat <u>3/</u>	Corn	Sorghum Grain	Wheat <u>4/</u>
1984 State Av.		8	12	
1987 State Av.		8	5	
1988 State Av.		8	10	
Sm Ctry Houses		17	18	
Lg Ctry Houses		3	6	
1989 State Av.		10	8	
Sm Ctry Houses		18	16	
Lg Ctry Houses		4	3	
1990 State Av.		8	11	
Sm Ctry Houses		14	19	
Lg Ctry Houses		4	4	
1991 State Av.		11	13	
Sm Ctry Houses		16	22	
Lg Ctry Houses		8	7	
1992 State Av.		9	10	13
Sm Ctry Houses		14	17	8
Lg Ctry Houses		5	5	13
Terminals		2		21
1997 State Av.	1	5	5	8
Sm Ctry Houses	2	7	7	9
Lg Ctry Houses	-	4	4	8

1/ No data collected in 1985-86 or 1993-1996. 2/ For years prior to 1997, the data applied to July-June periods. 3/ Data on wheat processed for feed first collected in 1997. 4/ Data first collected in 1992.

STORAGE CAPACITY UTILIZATION

When the new marketing year began on June 1, 1998, 10 percent of the utilized off-farm storage capacity in Kansas was taken up by government-owned grain, 60 percent by farmer-owned grain, and 30 percent by company-owned grain. Based on the June 1 stocks report, elevators had approximately 205 million bushels of wheat, corn, sorghum, and soybeans on hand.

**UTILIZATION OF KANSAS COMMERCIAL GRAIN STORAGE CAPACITY
BY DISTRICT, JUNE 1, 1998**

District/ Type of Elevator	Government Owned Grain	Farmer Owned Grain	Company Owned Grain
	Percent of Stored Grain		
NW	7	80	13
WC	6	71	23
SW	3	62	35
NC	12	66	22
C	19	43	38
SC	2	78	20
NE		66	34
EC	32	37	31
SE	1	75	24
State	10	60	30
Sm Ctry Houses	5	73	22
Lrg Ctry Houses	11	59	30

MARKETING DECISIONS

Decisions to buy grain were made locally by 95 percent of the elevators responding to this survey. Decisions to sell grain and set cash prices were made on site by 76 and 77 percent of the elevators, respectively. The average number of bids considered in setting prices was four in 1997.

**GRAIN MARKETING DECISIONS MADE AT KANSAS ELEVATORS
BY DISTRICT, JUNE 1, 1997-MAY 31, 1998**

District/ Type of Elevator	To Buy Grain	To Sell Grain	To Set Cash Grain Prices	If Prices Set, Average No of Bids Considered
	Percent of Elevators Making Decisions on Site			
NW	100	89	89	6
WC	100	83	78	4
SW	96	54	62	4
NC	96	79	79	4
C	100	72	78	4
SC	87	70	68	4
NE	100	85	77	4
EC	95	86	86	3
SE	87	82	91	5
State	95	76	77	4
Sm Ctry Houses	94	78	76	4
Lrg Ctry Houses	97	74	80	6

GRAIN MARKETING DECISIONS MADE AT KANSAS ELEVATORS, BY YEAR 1/ 2/

Crop Year/ Type of Elevator	To Buy Grain	To Sell Grain	To Set Cash Grain Prices	If Prices Set, Avg. No. of Bids Considered
Percent of Elevators Making Decisions on Site				
1984 State Av.	85	75	70	3
1987 State Av.	78	66	63	4
1988 State Av.	78	72	70	4
Sm Ctry Houses	78	73	71	3
Lg Ctry Houses	79	72	74	5
Terminals	62	57	52	5
1989 State Av.	77	69	68	4
Sm Ctry Houses	77	69	66	4
Lg Ctry Houses	81	77	80	5
Terminals	59	41	53	3
1990 State Av.	78	70	68	4
Sm Ctry Houses	79	70	69	4
Lg Ctry Houses	79	75	77	5
Terminals	59	41	53	3
1991 State Av.	76	69	65	4
Sm Ctry Houses	74	67	62	4
Lg Ctry Houses	90	78	86	5
Terminals	78	78	22	3
1992 State Av.	76	66	63	4
Sm Ctry Houses	74	65	60	3
Lg Ctry Houses	94	86	86	5
Terminals	50	30	60	6
1997 State Av.	95	76	77	4
Sm Ctry Houses	94	78	76	4
Lg Ctry Houses	97	74	80	6

1/ No data collected 1985-86 or 1993-96. 2/ For years prior to 1997, the data applied to July-June periods.

RAIL SERVICE

Rail service was available from June 1, 1997 to May 31, 1998 to 71 percent of the elevators responding to this survey, but only 54 percent of the elevators actually used rail service. Of the small country elevators, 37 percent had no rail service access, 17 percent did not use rail service although it was available, and 46 percent used rail cars to ship grain. Eleven percent of the large elevators did not have access to rail service, 17 percent did not use rail service even though it was an option, and 72 percent of the large elevators used rail service.

On the average, service was available three times per week at small country elevators and four times per week at large country elevators. The siding capacity averaged 11 cars at small country elevators and 32 cars at large country elevators.

Single car service was used by 70 percent of elevators with rail service, while unit train usage was reported by 38 percent. The average number of cars per unit train, as reported by the survey, was 42. There were two peak sizes of unit trains; one at 25 cars per train and one at 100+ cars. The need for rail cars always seemed to be greater than the number of cars received. The following tables reflect those shortages during peak usage times.

RAIL SERVICE USE BY KANSAS ELEVATORS

District/ Type of Elevator	No Rail Service Available	Elevators That Use Rail Service	Elevators That Do Not Use Rail Service Though Available
	Percent <u>1/</u>		
NW	6	89	6
WC	17	67	17
SW	8	85	8
NC	33	50	17
C	31	59	9
SC	26	51	23
NE	38	50	12
EC	67	19	14
SE	36	23	41
State	29	54	17
Sm Ctry Houses	37	46	17
Lg Ctry Houses	11	72	17

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

**RAIL SERVICES USED BY KANSAS ELEVATORS BY DISTRICT 1/
JUNE 1, 1997-MAY 31, 1998**

District/Type of Elevator	Of Elevators With Rail Service, Percent Using:			
	Single Cars	Unit Train	Avg. No. of Cars in Unit Train	Minimum Volume Contract
	Percent		No. of Cars	Percent
NW	94	35	28	25
WC	73	33	63	8
SW	79	58	46	19
NC	69	31	29	10
C	68	36	56	18
SC	63	40	40	13
NE	81	44	16	-
EC	57	29	<u>2/</u>	-
SE	36	14	-	20
State	70	38	42	14
Sm Cntry Houses	68	30	29	16
Lg Cntry Houses	73	50	49	12

1/ A questionnaire design change in the 1997 survey makes the 1997 data incompatible with the historic series. 2/ Data not published due to insufficient data.

RAIL SERVICE DURING PEAK USAGE TIMES

District/Type of Elevator	Average Number of Cars Per Week							
	June - August		Sept. - Nov.		Dec. - Feb.		March - May	
	Needed	Rec'd	Needed	Rec'd	Needed	Rec'd	Needed	Rec'd
NW	23	20	14	15	4	3	4	10
WC	19	17	19	9	18	12	20	16
SW	33	23	34	31	16	15	11	10
NC	27	13	17	8	5	4	7	5
C	26	15	46	35	35	26	20	19
SC	36	21	19	18	7	7	11	8
NE	12	8	16	8	10	7	10	7
EC	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>
SE	38	28	38	24	17	13	17	5
State	27	17	24	19	13	10	11	10
Sm Cntry Houses	17	11	15	13	6	4	5	5
Lg Cntry Houses	41	27	37	27	29	24	27	22

1/ Data not published due to insufficient data.

COMPANIES SUPPLYING RAIL SERVICE TO ELEVATORS

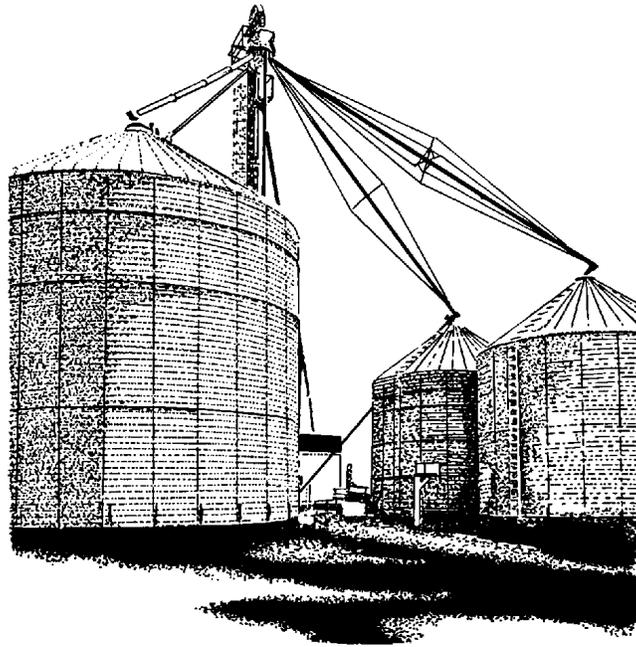
	BNSF <u>1/</u>	UPSP <u>2/</u>	Other
	Percent		
State	15	21	64
Sm Ctry Houses	15	17	68
Lg Ctry Houses	16	27	57

1/ Burlington Northern Santa Fe. 2/ Union Pacific Southern Pacific.

**RAIL SERVICES USED BY KANSAS ELEVATORS 1/ 2/
BY YEAR, JUNE 1, 1997-MAY 31, 1998 3/**

District/Type of Elevator	Of Elevators With Rail Service, Percent Using:		
	Single Cars	Unit Cars	Minimum Volume Contract
1984 State Av.	81	15	20
1987 State Av.	55	7	14
1988 State Av.	55	9	15
Sm Ctry Houses	57	4	11
Lg Ctry Houses	43	13	25
Terminals	67	57	43
1989 State Av.	53	9	12
Sm Ctry Houses	56	6	10
Lg Ctry Houses	39	11	11
Terminals	59	71	53
1990 State Av.	48	8	11
Sm Ctry Houses	47	5	10
Lg Ctry Houses	50	9	11
Terminals	57	64	43
1991 State Av.	26	5	7
Sm Ctry Houses	24	3	5
Lg Ctry Houses	36	7	10
Terminals	40	70	50
1992 State Av.	21	4	7
Sm Ctry Houses	19	2	5
Lg Ctry Houses	32	15	15
Terminals	45	55	36
1997 State Av.	70	38	14
Sm Ctry Houses	68	30	16
Lg Ctry Houses	73	50	12

1/ No data collected 1985-86 and 1993-96. 2/ Design change in questionnaire. 3/ For years prior to 1997, the data applied to July-June periods.



KANSAS GRAIN STOCKS, BY QUARTERS, 1997-1998

Crop/Position	September 1, 1997	December 1, 1997	March 1, 1998	June 1, 1998
	Million Bushels			
Wheat				
On Farms	58	36	25	10
Off Farms <u>1/</u>	294	208	188	97
Total <u>2/</u>	352	244	213	107

Crop/Position	December 1, 1997	March 1, 1998	June 1, 1998	September 1, 1998
	Million Bushels			
Corn				
On Farms	83	48	30	10
Off Farms <u>1/</u>	148	124	58	36
Total <u>2/</u>	231	172	88	45
Sorghum Grain				
On Farms	45	28	11	8
Off Farms <u>1/</u>	127	93	37	20
Total <u>2/</u>	172	121	48	28
Soybeans				
On Farms	22	14	8	3
Off Farms <u>1/</u>	47	35	13	7
Total <u>2/</u>	68	49	21	10

1/ Includes stocks at mills, elevators, warehouses, terminals, and processors. 2/ May not add due to rounding.

PRICES RECEIVED BY KANSAS FARMERS FOR 1997 GRAIN SALES

Crop/District	1997							1998				
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
	Dollars per Bushel											
Wheat												
NW	3.31	3.10	3.35	3.34	3.27	3.18	3.11	3.06	3.12	3.07	2.89	2.89
WC	3.16	3.14	3.32	3.37	3.29	3.22	3.07	3.05	3.08	3.12	2.85	2.87
SW	3.16	3.06	3.29	3.31	3.23	3.17	3.06	3.00	3.06	3.10	2.84	2.87
NC	3.23	3.13	3.37	3.41	3.37	3.27	3.14	3.10	3.18	3.16	2.92	2.95
C	3.31	3.20	3.39	3.44	3.40	3.25	3.18	3.16	3.19	3.16	2.95	2.93
SC	3.28	3.14	3.37	3.40	3.39	3.30	3.16	3.10	3.16	3.14	2.88	2.90
NE	3.34	3.33	3.54	3.51	3.40	3.28	3.17	3.14	3.20	3.15	2.89	2.98
EC	3.43	3.32	3.56	3.60	3.31	3.22	3.26	3.13	3.10	3.17	2.83	2.91
SE	3.15	3.36	3.40	3.43	3.31	3.31	3.16	3.11	3.16	3.09	2.87	2.94
State	3.24	3.15	3.36	3.39	3.33	3.25	3.13	3.09	3.14	3.13	2.89	2.91

Crop/District	1997				1998							
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
	Dollars per Bushel											
Corn												
NW	2.56	2.59	2.41	2.41	2.37	2.45	2.40	2.27	2.28	2.23	2.08	1.78
WC	2.61	2.64	2.57	2.52	2.47	2.54	2.51	2.38	2.44	2.36	2.29	1.89
SW	2.68	2.74	2.68	2.61	2.61	2.63	2.60	2.45	2.47	2.44	2.33	2.04
NC	2.42	2.56	2.44	2.42	2.37	2.43	2.37	2.21	2.29	2.18	2.03	1.85
C	2.51	2.55	2.47	2.46	2.45	2.50	2.54	2.45	2.38	2.28	2.14	1.82
SC	2.55	2.57	2.48	2.52	2.50	2.55	2.51	2.32	2.38	2.28	2.19	1.96
NE	2.57	2.59	2.42	2.46	2.45	2.51	2.48	2.35	2.38	2.30	2.19	1.75
EC	2.36	2.42	2.33	2.40	2.39	2.37	2.45	2.24	2.37	2.23	2.21	1.83
SE	2.73	2.43	2.48	2.54	2.49	2.52	2.45	2.43	2.56	2.35	2.20	1.84
State	2.60	2.64	2.55	2.52	2.50	2.54	2.52	2.37	2.40	2.34	2.22	1.92
	Dollars per Bushel											
Soybeans 1/												
NW	6.32	6.26	6.60	6.50	6.58	6.28	6.13	6.17	6.07	5.89	5.89	5.16
WC												
SW												
NC	6.06	6.25	6.55	6.54	6.47	6.36	6.18	6.19	6.13	5.93	6.02	5.15
C	6.60	6.16	6.78	6.60	6.57	6.36	6.24	6.35	6.25	5.97	6.06	5.21
SC	6.62	6.33	6.67	6.58	6.49	6.36	6.22	6.23	6.23	5.94	6.05	5.31
NE	6.75	6.39	6.69	6.61	6.57	6.43	6.26	6.31	6.29	5.96	5.92	5.29
EC	6.93	6.47	6.92	6.77	6.72	6.63	6.38	6.38	6.38	6.09	6.09	5.24
SE	6.55	6.38	6.67	6.74	6.63	6.54	6.34	6.33	6.33	5.95	5.99	5.24
State	6.66	6.38	6.73	6.67	6.60	6.49	6.29	6.31	6.29	5.99	6.00	5.25
	Dollars per Cwt.											
Sorghum Grain												
NW	3.62	3.80	3.68	3.60	3.69	3.64	3.70	3.52	3.46	3.43	3.03	2.67
WC	3.81	3.94	3.91	3.83	3.87	3.80	3.93	3.73	3.59	3.45	3.18	2.67
SW	3.89	4.08	3.88	3.85	4.01	3.98	3.98	3.78	3.60	3.56	3.38	2.87
NC	3.65	3.96	3.84	3.72	3.85	3.89	3.92	3.64	3.65	3.54	3.17	2.76
C	3.64	3.91	3.81	3.78	3.95	3.87	3.97	3.77	3.69	3.56	3.21	2.73
SC	3.71	3.88	3.79	3.78	3.87	3.85	3.89	3.68	3.58	3.48	3.24	2.77
NE	3.91	4.09	3.96	3.85	3.98	3.93	4.00	3.79	3.79	3.66	3.49	2.94
EC	3.86	3.91	4.01	3.93	3.99	3.75	4.05	3.70	3.65	3.65	3.46	2.93
SE	3.72	3.77	3.91	3.89	3.91	3.92	4.03	3.83	3.82	3.73	3.63	3.10
State	3.75	3.94	3.87	3.80	3.91	3.87	3.95	3.72	3.66	3.56	3.31	2.82

SOURCE: Monthly Probability Grain Price Survey. 1/ Soybean prices for Northwest, Southwest, and West Central combined due to insufficient data.

GRAIN TRANSPORTATION

August 1998

KANSAS DEPARTMENT
OF AGRICULTURE
DIVISION OF STATISTICS

KANSAS AGRICULTURAL STATISTICS
632 SW VAN BUREN, RM. 200
PO BOX 3534
TOPEKA, KS 66601-3534
1-800-258-45

Dear Kansas Grain Handler:

The grain handling and transportation industries in Kansas have changed significantly in the past years. The need for updated information on the movement of Kansas grains has probably never been greater. Response to this survey is voluntary, but is important to all of Kansas. Your report will be kept confidential. Thank you for your help.

Sincerely,

Eldon J. Thiessen
State Statistician

SECTION 1 - RAILROAD SERVICE

1. Is rail service available at this site? Yes continue
 Yes but not used; skip to question 9
 No skip to question 9

Office Use
019

2. What company supplies rail service to your site?
 BNSF= 1 UPSP= 2 Other _____ Please provide name.

001

3. How many times per week was rail service available at this site during 1997-98?

	Times/Week		Times/Week
June - Aug. '97	002	Dec. '97 - Mar. '98	004
Sept.- Nov. '97	003	Mar. - May. '98	005
		Only when called	006

4. Was minimum volume contracting for rail service used during June 1997-May 1998? Yes No

Office Use
007

5. Which of the following train services did you utilize on your own or in combination with other firms during June 1997 - May 1998?

008	Single Car	
010	Unit Train ⇒ What was the average # of cars in the unit trains used?	009

6. What percent of the following grains was shipped by unit train? If none, go to Item 7.

Wheat	<input type="text" value="065"/> %	Corn	<input type="text" value="075"/> %	Sorghum Grain	<input type="text" value="085"/> %	Soybeans	<input type="text" value="095"/> %
-------	------------------------------------	------	------------------------------------	---------------	------------------------------------	----------	------------------------------------

7. Please report average rail car needs and services provided for shipping from this site during peak usage times for each period listed:

	Avg. # of Cars			Avg. # of Cars	
	Needed/Week	Rec'd/Week		Needed/Week	Rec'd/Week
June - Aug. '97	011	013	Dec. '97 - Feb. '98	016	018
Sept. - Nov. '97	012	014	Mar. - May '98	017	019

8. How many cars can be placed on the rail siding at this site?

015

SECTION 2 - GRAIN SHIPMENTS

9. How much grain was **RECEIVED AT** this site between June 1, 1997 and May 31, 1998? Please report grain received by transportation mode.

Transportation Mode	Wheat	Corn	Grain sorghum	Soybeans
Rail	020 Bu.	030 Bu.	040 Bu.	050 Bu.
Truck	021 Bu.	031 Bu.	041 Bu.	051 Bu.
Total Rail & Truck	023 Bu.	033 Bu.	043 Bu.	053 Bu.

10. How many bushels of each grain received were processed on site for feed?

Wheat	Corn	Grain sorghum
150 Bu.	151 Bu.	152 Bu.

11. How many bushels of wheat received were processed on site for flour?

438

12. How many bushels of soybeans were processed on site?

439

13. What percent of the total truck receipts of each grain came directly from producers?

Wheat	Corn	Grain sorghum	Soybeans
024 %	034 %	044 %	054 %

14. What percent of the total receipts of each grain came from outside of Kansas?

Wheat	Corn	Grain sorghum	Soybeans
025 %	035 %	045 %	055 %

15. Were grains received at your site from June 1, 1997 to May 31, 1998 sampled for grading determinations?

Yes, Continue

No, Skip to Item 18

Office Use
036

16. Please check method(s) used to obtain samples.

037 Hand Probe

038 Mechanical/Pneumatic

039 Other _____

17. Please check all of the following grading factors tested:

Moisture	<input type="checkbox"/> 046	Milling Quality/Variety Specific	<input type="checkbox"/> 239	Other Damage	<input type="checkbox"/> 059
Test Weight	<input type="checkbox"/> 047	Soybean Oil Content	<input type="checkbox"/> 056	Organic/Pesticide Free	<input type="checkbox"/> 241
Foreign Material	<input type="checkbox"/> 048	Insect Infestation	<input type="checkbox"/> 057		
Protein Content	<input type="checkbox"/> 049	Dockage	<input type="checkbox"/> 085		

18. Do you normally deduct for dockage or pay premiums?

Yes Continue

No Skip to Item 19

Office Use
430

Please complete the table below by checking commodities for which deductions are made or premiums paid. Also indicate the level at which deductions or premiums begin.

	Wheat	Corn	Grain Sorghum	Soybeans
Deduct for Dockage	<input type="checkbox"/> Yes <input type="checkbox"/> No ↓			
Discount begin at what % dockage?	440 _____%	450 _____%	460 _____%	470 _____%
Offer Premium	<input type="checkbox"/> Yes <input type="checkbox"/> No ↓	<input type="checkbox"/> Yes <input type="checkbox"/> No ↓		<input type="checkbox"/> Yes <input type="checkbox"/> No ↓
Begin at what %	Protein 441 _____%	Oil 451 _____%		Oil 471 _____%

19. How much whole grain was **SHIPPED FROM** this site between June 1, 1997 and May 31, 1998. Do not include processed grain. Please report shipments by transportation mode:

Transportation Mode	Wheat	Corn	Grain Sorghum	Soybeans
Rail < 24 cars	060 Bu.	070 Bu.	080 Bu.	090 Bu.
Rail 24-49 cars	360 Bu.	370 Bu.	380 Bu.	390 Bu.
Rail 50 or more cars	260 Bu.	270 Bu.	280 Bu.	290 Bu.
Truck	061 Bu.	071 Bu.	081 Bu.	091 Bu.
Barge	062 Bu.	072 Bu.	082 Bu.	092 Bu.
Total	064 Bu.	074 Bu.	084 Bu.	094 Bu.

Shipment Destinations

20. Please give the final destination and the approximate percent of grain shipped to each destination in the tables below. Place the letter "f" next to the destination if it is a feed lot [e.g. Abilene, KS (F)]
If more than four lines are needed, please use an extra sheet of paper.

Record Destinations as follows:

Kansas	-by city	Missouri	-Kansas City	Texas	-Inland Cities	All other
Oklahom	-Enid		-St. Joseph		-Gulf Port	Locations
a						by State
	-Port of Catoosa		-St. Louis	Mexico		
		Mississippi	-Gulf Port	Pacific	-Port	
		i		NW		

(a) For all grain shipped by **RAIL**, provide final destination and percent shipped to each destination.

Wheat		Corn		Grain Sorghum		Soybeans	
Destination	%	Destination	%	Destination	%	Destination	%
100	101	110	111	120	121	130	131
102	103	112	113	122	123	132	133
104	105	114	115	124	125	134	135
106	107	116	117	126	127	136	137

(b) For all grain shipped by **TRUCK**, provide final destination and percent shipped to each destination.

Wheat		Corn		Grain Sorghum		Soybeans	
Destination	%	Destination	%	Destination	%	Destination	%
200	201	210	211	220	221	230	231
202	203	212	213	222	223	232	233
204	205	214	215	224	225	234	235
206	207	216	217	226	227	236	237

(c) Did this facility ship any grain by barge between June 1, 1997 and May 31, 1998?

Yes
 No

Office Use
240

21. Do you have outgoing grain shipments sampled at this site for grade determination?

Yes, Continue

No, Skip to Item 22

Office Use
156

Please Check:

a) Which types of shipments were sampled:

140 Rail

141 Truck

142 Barge

b) Methods used to obtain the sample:

144 Hand Probe

145 Mechanical/Pneumatic

146 Other _____

c) Who did the sampling?

147 Employees

148 Contract Sampler

149 KS Grain Inspection

153 Other _____

d) Who made the grade determination?

157 KS Grain Inspection

158 Fed. Grain Inspection

159 Other _____

SECTION 3 - STORAGE CAPACITY AND UTILIZATION

22. What is your rated grain storage capacity?

Bushels

174
175

23. What was the total quantity (bushels) of all grains stored at your facility on June 1, 1998?

Bushels

24. What percent of the stored grain (Item 22, above) was:

Government-owned grain (CCC)

Percent

160
161
162

Farmer-owned grain? (Grain Reserve, regular loan and other)

Percent

Company owned grain

Percent

SECTION 4 - GRAIN MARKETING

25. Please check the marketing decisions that are made at this elevator:

170 Buy grain
 171 Sell grain

172 Set cash grain prices
 173 None of the above

26. If you set cash prices, how many bids are considered daily before a price is set?

176	Bids
-----	------

SECTION 5 - CONCLUSION

27. Have any of your personnel attended a grain grading school in the past three years?

Yes

No

Office Use
066

28. Please check if you would like to receive a copy of the final report.

Yes

No

999

Reported by _____

Date _____

Office Use	
990	991