

Grain Market Outlook
RISK_{AND} PROFIT Conference

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Grain Market Outlook for 2004-05

- Major Grain Market Factors
- Feedgrain, Oilseed & Wheat Market Outlook
 - Futures & Cash Prices
 - Supply-Demand Prospects
 - Price Prospects for 2004-05
 - Likely Causes & Timing of Price Volatility

Major Market Factors

- U.S. / Foreign Crop Prospects for 2004/05
- Expanding Ethanol Usage thru 2008
- China Grain Production / Exports / Imports
- Oilseed Product Demand: Past & Future
- WTO Impact on Programs and Trade????
- The Market's "Comfort" with Lower Stocks

U.S. Crop Prospects for 2004/05

August 2004 Crop Report

- **Corn Crop Record:** 10.923 Billion Bu
 - Most Planted/Harvested acres (81/73.4 mln) since '85
 - 148.9 bu/ac. → Record U.S. Yield (+3.9 bu over '03)
 - *Headed for 11+ Billion Bushels???*
- **Soybean Crop Near-Record:** 2.877 Bln Bu
 - Most Planted/Harvested acres (74.8/73.7 mln.) EVER
 - 39.1 bu/ac. → Record U.S. Yield (41.4 bu in 1994)
 - *Headed for 2.7 or 3.0 Billion Bushels???*

Foreign Crop Prospects for 2004/05

August 2004 Crop Report

- **World Wheat Crop:** 609 mmt
 - Near-Record (610 mmt in 1997/98)
 - Larger crops in Argentina, Canada, EU-25, China, India, Russia, & Ukraine
- **Oilseed Production:** 379 mmt
 - ↑ 43 mmt over 2003/04 (at least 8 year high)
 - ↑ Production for South American Soybeans in '05
 - ↑ Canola PRODN in Canada, EU-25; SF in Russia

Expanding U.S. Ethanol Use

- **U.S. Ethanol Plant Statistics**
 - Corn processing capacity: 20-25 mln bu /plant /year
 - 50-55 plants currently *in operation*
 - 1.370 million bushels for 2004/05 (August Report)
 - 12 under construction + 60 more planned by 2008
 - IF 72 plants using corn are actually built, then 1.44-1.8 million bu more used by 2008
- **@Issue:** What impact would Ethanol use have on feed use, exports, prices, crop acreage, etc.?

China Grain Production & Use

- **China is projected to stop *exporting* corn & become a net corn *importer* sometime during the 2005 (FAPRI) to 2008 (USDA) period**
- Corn Use > Production since 1999/00
 - Domestic Use Up 9% to 132 mmt in 2004/05
 - Level yields since 1999 (90 bu/acre max)
- Soybean Use 50%+ > Production (since '02/03)
- Wheat Use 13-21% > Production (since '02/03)

China Corn Trade & Scenarios

- **Chinese Corn Export Impact upon the U.S.**
 - In 2004/05 China to export 520 mln bu of corn
 - IF China stops exporting corn in 2005/06, the U.S. would likely fill the export void/need
- **Possible Chinese/U.S. Grain Scenarios**
 - IF China KEEPS exporting Corn, U.S. Ethanol-based grain use will be met more easily (less \$ impact)
 - IF China STOPS exporting Corn, then U.S. Ethanol use & U.S. exports will “compete”

Oilseed Product Demand


- **Situation: A tight Oilseed Supply-Demand situation led to high Oilseed product & crop prices during Spring-early Summer 2004**
 - Prices declined this summer as new crop prospects in the U.S. have become less uncertain
 - Normal-large South American soybean production is projected for 2005
- **@Issue:** Extremely volatile markets may result IF World Oilseed crop prospects fall short

WTO Impact on U.S. Farm Programs


- “Don’t panic, but pay attention” (Pat Westhoff, FAPRI-University of Missouri)
 - Too soon to know long run WTO impact
- Brazilian WTO Case vs U.S. Cotton Program
 - WTO panel found in favor of Brazil, i.e., that U.S. cotton loan program is/was “trade distorting”
- **Likely long run impact:** Some “marginal effect” on U.S. farm programs, but no major impacts
 - Issues of “green”, “amber”, & “blue” boxes


Grain Markets are more “Comfortable” with Low Grain Stock Levels

- **World Grain Markets appear to be less concerned (i.e., less price responsive) to the existence of smaller grain stock amounts**
 - Lower market demand for grain stocks
- **Better coordination of physical supply/demand**
 - Info re: amount & location of stocks
 - Grain handling/transportation improvements
- **Market Impact:**
 - More tolerance of tight supplies (“living on the edge”)

 **Corn Futures Prices**
 CBOT Closes, Thursday, August 19, 2004

Futures	Closing	Carry/mo
September '04	\$2.29	---
December 2004	\$2.40 ^{1/4}	---
March '05	\$2.48 ^{1/2}	+\$0.02 ^{3/4}
May '05	\$2.54 ^{1/4}	+\$0.02 ^{7/8}
July '05	\$2.58 ^{3/4}	+\$0.02 ^{1/4}
September '05	\$2.60 ^{1/2}	+\$0.00 ^{7/8}
December 2005	\$2.63 ^{3/4}	---






Cash Corn Prices

Thursday, August 19, 2004

Location	Cash\$	Basis (Sep)	LDP
Atchison	\$2.21	-\$0.08	(\$0.04)
Manhattan	\$2.34	+\$0.05	(\$0.04)
Columbus	\$2.17	-\$0.12	(\$0.04)
Salina	\$2.25	-\$0.04	\$0.00
Pratt	\$2.35	+\$0.06	\$0.00
Goodland	\$2.34	+\$0.05	\$0.00
Garden City	\$2.46	+\$0.17	\$0.00
Atchison NC	\$2.17	-\$0.23 ^{Dec}	---
Garden City NC	\$2.43	+\$0.03 ^{Dec}	---




Cash Grain Sorghum Prices


Thursday, August 19, 2004

Location	Cash\$	Basis (Sep)	LDP
Atchison	\$2.15	-\$0.14	(\$0.06)
Manhattan	\$2.00	-\$0.29	(\$0.06)
Columbus	\$1.80	-\$0.49	(\$0.06)
Salina	\$2.15	-\$0.14	(\$0.09)
Phillipsburg	\$1.89	-\$0.40	(\$0.09)
Pratt	\$1.89	-\$0.40	(\$0.09)
Goodland	\$1.85	-\$0.44	(\$0.09)
Scott City	\$1.90	-\$0.39	(\$0.09)
Garden City	\$1.93	-\$0.36	(\$0.09)

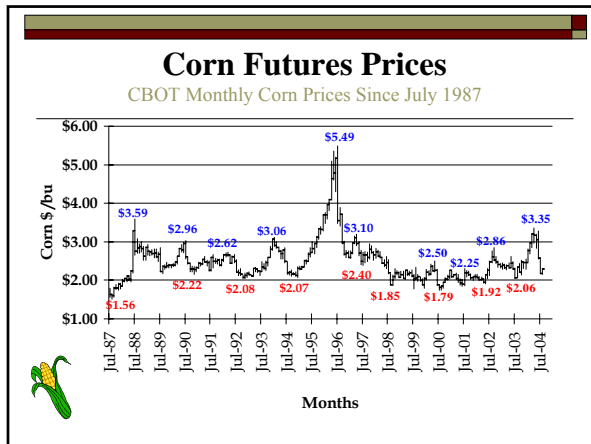
U.S. Feedgrain Market Outlook



Bearish Factors	Bullish Factors
1) Record Feedgrain Crop ↑ Corn Yield thru Harvest??? 2) ↑ World Coarsegrains 3) Recovery in Chinese Corn Yields? 4) World Grain Market now more "comfortable" with lower grain stock levels	1) Strong Domestic Use ↑ FSI / Ethanol Use Strong Feed Use 2) Export Prospects ↑ World Coarsegrain Use ??? Chinese Corn Exports 3) Production ≈ Use ⇨ Tight U.S. & World Stocks ⇨ Price volatility likely in Spring '05 due to acreage uncertainty



Grain Market Outlook Presentation
 K-State Risk and Profit Conference, Manhattan, KS
 August 20, 2004



U.S. Corn Supply-Demand

August 2004 USDA Est. (Million Bu.)

	2002/03	2003/04	2004/05
Beginning Stocks	1,596	1,087	914
Production	8,967	10,114	10,923
Total Supplies	10,578	11,214	11,852
Food, Seed, Ind. Use (Ethanol for Fuel)	2,340 (996)	2,575 (1,200)	2,770 (1,370)
Exports	1,592	1,925	2,100
Feed & Residual	5,558	5,800	5,850
Total Use	9,491	10,300	10,555
End Stocks	1,087	914	1,132
US Ave Farm \$	\$2.³²	\$2.⁴⁰	\$2.⁰⁵-\$2.⁴⁵

U.S. Grain Sorghum Supply-Demand

August 2004 USDA Est. (Million Bu.)

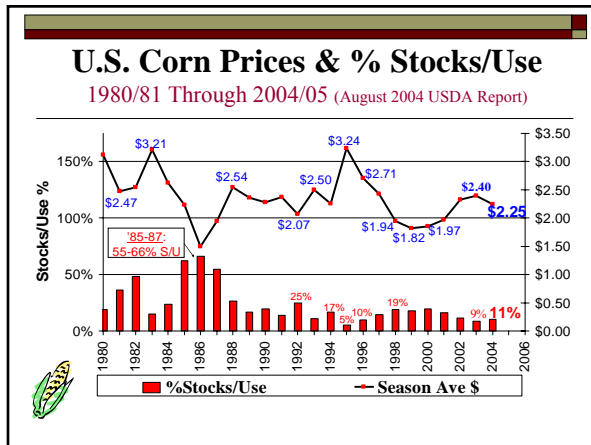
	2002/03	2003/04	2004/05
Beg. Stocks	61	43	44
Production	361	411	465
Total Supplies	422	454	509
Food, Seed, Ind. Use	24	20	50
Exports	186	200	225
Feed & Residual	169	190	180
Total Use	379	410	455
End Stocks	43	44	54
US Ave Farm \$	\$2.³²	\$2.³⁸	\$2.⁰⁰-\$2.⁴⁰

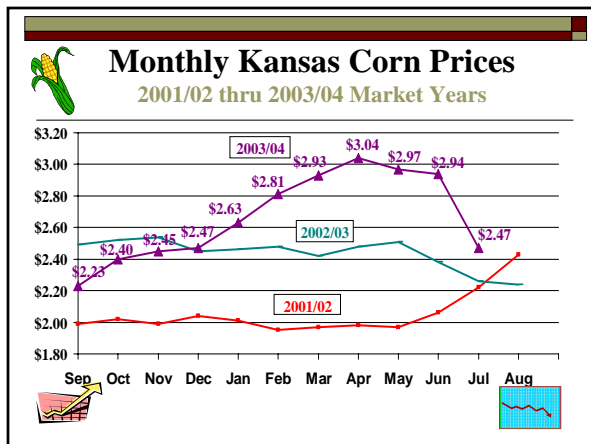
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Foreign Coarse Grain S/D

August 2004 USDA Est. (Million Metric Tons)

World Supplies	2002/03	2003/04	2004/05
Beg. Stocks	150	134	99
Production	628	624	659
Imports	100	98	96
World Use			
Feed Use	447	459	466
Food, Seed, Other Domestic	240	253	256
Exports	58	46	44
End Stocks	134	99	93






U.S. Corn Price 2004/05 Prospects
 Wisner-ISU, August 2004

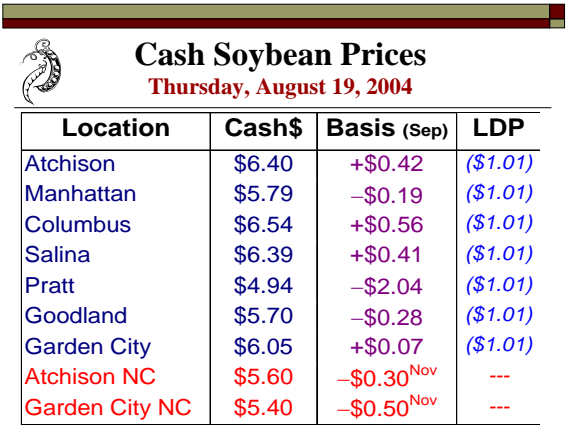
Scenario:	High\$	Medium\$	Low\$
Likelihood:	15%	60%	20%
U.S. Yield/a	145.0 bu	148.9 bu	152.0 bu
Corn Prod'n (mln bu)	10.614	10.929	11.157
Stocks/Use%	10.2%	12.9%	13.8%
U.S. Cash \$/bu	\$2.40	\$2.25	\$2.20
DEC Corn Fut. @ Harvest 2004	\$2.35	\$2.20	\$2.10

More Corn Price Info for 2004/05

- ❑ **Illinois Extension Forecasts** (Good, Univ. Illinois)
 - Using both Price Models & Basis adj. Futures
 - ❑ **S/U Model:** Ave Cash \$ = \$2.28/bu
 - ❑ **Futures** (Basis adj) : Ave Cash \$ = \$2.30/bu
- ❑ **General thoughts on Price Direction**
 - 2004/05 a "Big Crop" Year, harvest lows with post harvest price increase
 - Typically a \$0.75-\$0.80 price ↑ from Fall lows to Spring Planting highs (\$0.45 minimum)
 - ❑ Advantage to storage (on farm)

 **Soybean Futures Prices**
 CBOT Closes, Thursday, August 19, 2004

Futures	Closing \$	Carry/mo
August '04	\$6.52	---
September '04	\$5.98 ^{1/4}	-\$0.53 ^{3/4}
November '04	\$5.89 ^{1/2}	---
January '05	\$5.95	+\$0.02 ^{3/4}
March '05	\$6.03 ^{1/4}	+\$0.04 ^{1/8}
May '05	\$6.08 ^{1/4}	+\$0.02 ^{1/2}
July '05	\$6.11 ^{1/2}	+\$0.01 ^{5/8}
November '05	\$5.92 ^{3/4}	---



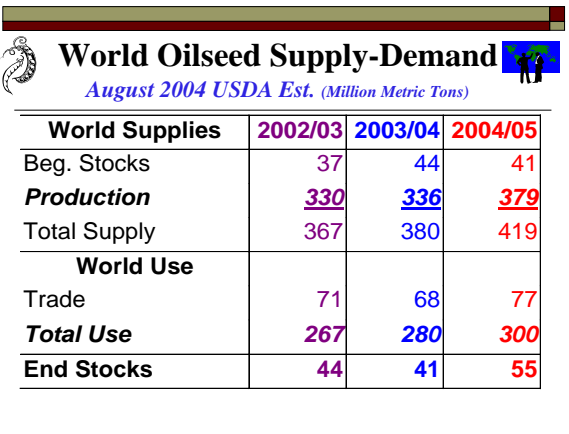
Cash Soybean Prices
 Thursday, August 19, 2004

Location	Cash\$	Basis (Sep)	LDP
Atchison	\$6.40	+\$0.42	(\$1.01)
Manhattan	\$5.79	-\$0.19	(\$1.01)
Columbus	\$6.54	+\$0.56	(\$1.01)
Salina	\$6.39	+\$0.41	(\$1.01)
Pratt	\$4.94	-\$2.04	(\$1.01)
Goodland	\$5.70	-\$0.28	(\$1.01)
Garden City	\$6.05	+\$0.07	(\$1.01)
Atchison NC	\$5.60	-\$0.30 ^{Nov}	---
Garden City NC	\$5.40	-\$0.50 ^{Nov}	---




U.S. Oilseed Market Outlook


<u>Bearish Factors</u>	<u>Bullish Factors</u>
1) Large South American Crop expected in 2005 <i>Large soybean exports in Spring '05 from Brazil & Argentina</i> 2) ↑ World Supplies <i>Up 10% to 419 mmt in '04/45</i> 3) ↑ World Stocks <i>Up 35% to 54 mmt in '04/45</i>	1) World Use Strong '04/05 <i>+7% & +12% over last 2 years</i> 2) Frost Risk-North U.S. 3) Market Questions in '05 <i>So. American Crop Uncertainty</i> <i>U.S. Crop Acreage concerns in Spring 2005</i> <i>Strength of feed demand?</i> <i>Long run crop disease issues?</i>




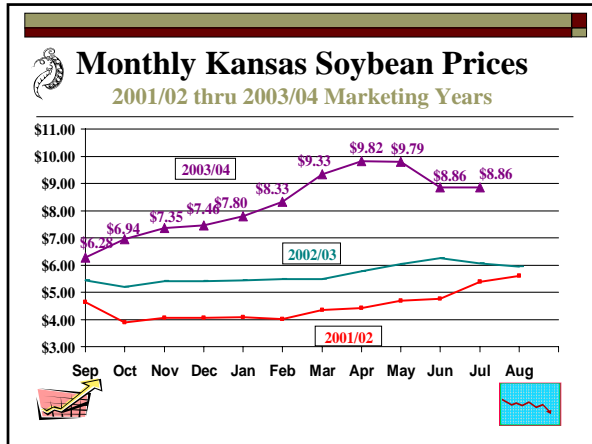
World Oilseed Supply-Demand
 August 2004 USDA Est. (Million Metric Tons)

	2002/03	2003/04	2004/05
World Supplies			
Beg. Stocks	37	44	41
Production	330	336	379
Total Supply	367	380	419
World Use			
Trade	71	68	77
Total Use	267	280	300
End Stocks	44	41	55

 U.S. Soybean Supply-Demand <i>August 2004 USDA Est. (Million Bu.)</i>			
	2002/03	2003/04	2004/05
Beg. Stocks	208	178	105
Production	2,756	2,418	2,877
Total Supplies	2,969	2,602	2,988
Crushings	1,615	1,515	1,625
Exports	1,044	890	1,030
Seed	89	91	90
Residual	41	0	53
Total Use	2,791	2,497	2,798
End Stocks	178	105	190
US Ave Farm \$	\$5.³³	\$7.⁴⁰	\$5.⁴⁰ - 6.²⁰

 U.S. Soybean Meal Supply-Demand <i>August 2004 USDA Est. (Thousand Short Tons)</i>			
	2002/03	2003/04	2004/05
Beg. Stocks	240	220	175
Production	38,213	35,905	38,710
Imports	166	250	165
Total Supplies	38,619	36,375	39,050
Domestic Use	32,379	31,900	33,600
Exports	6,019	4,300	5,200
Total Use	38,399	36,200	38,800
End Stocks	220	175	250
US Ave \$ (\$/sh.ton)	\$181.⁹⁷	\$260.⁰⁰	\$180-\$210

 U.S. Soybean Oil Supply-Demand <i>August 2004 USDA Est. (cents per lb.)</i>			
	2002/03	2003/04	2004/05
Beg. Stocks	2,358	1,491	1,051
Production	18,438	16,825	18,280
Imports	46	285	105
Total Supplies	20,843	18,601	19,436
Domestic Use	17,089	16,700	17,200
Exports	2,263	850	1,050
Total Use	19,352	17,550	18,250
End Stocks	1,491	1,051	1,186
US Ave \$ (cents/lb.)	\$22.⁰⁴	\$30.⁰⁰	\$23-\$26




U.S. Soybean Price 2004/05 Prospects

Wisner-ISU, August 2004

Scenario:	High\$	Medium\$	Low\$
Likelihood:	22%	65%	13%
U.S. Yield/a	37.0 bu	39.1 bu	40.0 bu
Soyb. Prodn (min bu)	2.720	2.877	2.991
Stocks/Use%	3.1%	6.3%	7.9%
U.S. Cash \$/bu	\$6.70	\$5.50	\$5.30
NOV Soyb. Fut. @ Harvest 2004	\$6.55	\$5.40	\$5.20


- ### More Soybean \$ Info for 2004/05
- **Illinois Extension Forecasts** (Good, Univ. Illinois)
 - Using both Price Models & Basis adj. Futures
 - **S/U Model:** Ave Cash \$ = \$5.44/bu
 - **Futures** (Basis adj) : Ave Cash \$ = \$5.84/bu
 - **General thoughts on Price Direction**
 - Opportunity for Cash\$ increases through Fall, then U.S./So. American weather drives market
 - **New Concept:** "6 month crop marketing years", first for U.S., then for South America




Wheat Futures Prices

KCBT Closes, Thursday, August 19, 2004

Futures	Closing\$	Carry/mo
September '04	\$3.23 ^{3/4}	---
December '04	\$3.36 ^{3/4}	+\$0.04 ^{1/3}
March '05	\$3.46 ^{1/2}	+\$0.03 ^{1/4}
May '05	\$3.51 ^{1/2}	+\$0.02 ^{1/2}
July 2005	\$3.56	---
September '05	\$3.64	+\$0.04
December '05	\$3.70	+\$0.02







Cash Wheat Prices


Thursday, August 19, 2004

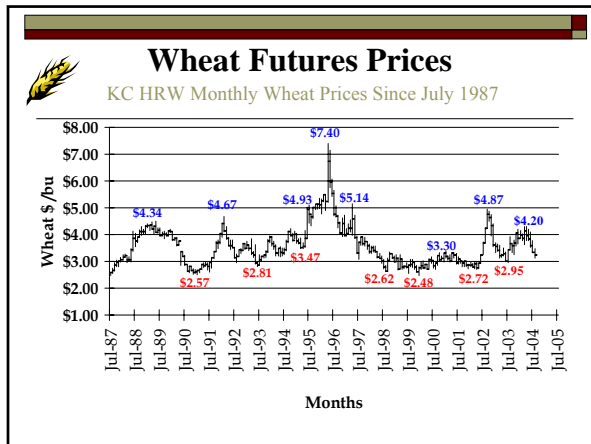
Location	Cash\$	Basis (Sep)	LDP
Atchison	\$3.04	-\$0.20	(\$0.23)
Manhattan	\$2.93	-\$0.31	(\$0.23)
Columbus	\$3.00	-\$0.24	(\$0.23)
Salina	\$3.23	-\$0.01	(\$0.23)
Pratt	\$2.98	-\$0.26	(\$0.23)
Phillipsburg	\$2.89	-\$0.35	(\$0.23)
Goodland	\$2.79	-\$0.45	(\$0.23)
Garden City	\$2.88	-\$0.36	(\$0.23)



U.S. Wheat Market Outlook

 Bearish Factors	Bullish Factors
1) "Flat" U.S. Wheat Use U.S.: Steady Food #s, ↑Exports World: Stagnant use as diets change in developing world	1) Declining Wheat Acres U.S.: 59.7 mln ac (61.7 last yr)
2) Large expected '04/05 World Wheat Crops	2) World Prod'n ≥ Use in 2004/05 mktg yr <i>Prodn < Use in 2002/03 & 2003/04</i>
3) HRW Gulf vs PNW Transportation Cost	3) Tight World Stocks/Use 24% Stocks/Use in 2004/05 Vs 23% in 2003/04
4) Poor HRW Quality	4) Chinese Imports???





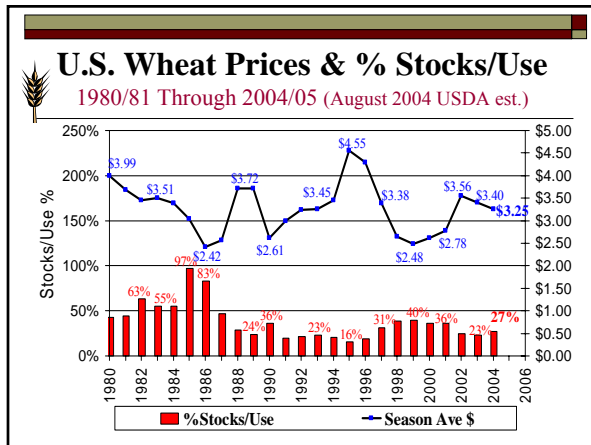
World Supplies	2002/03	2003/04	2004/05
Beg. Stocks	202	167	132
Production	567	551	609
Imports	108	103	103
World Use			
Feed	113	98	106
Food, Seed, Oth. Domestic	489	488	493
Exports	108	107	106
World End Stocks	167	132	142

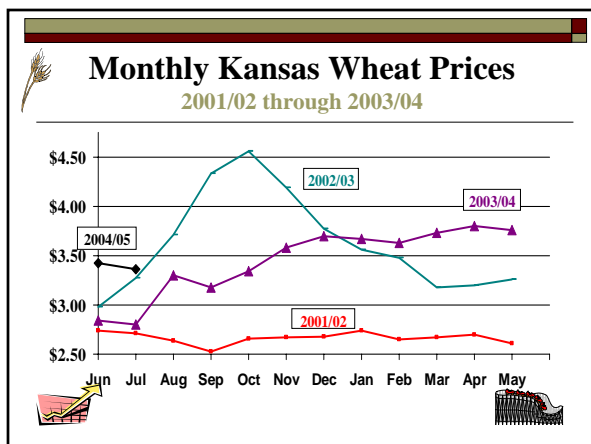
Foreign Supplies	2002/03	2003/04	2004/05
Beg. Stocks	181	154	117
Production	523	487	551
Imports	105	101	101
Foreign Use			
Feed	109	93	100
Food, Seed, Oth. Domestic	462	461	466
Exports	85	75	80
World End Stocks	154	117	127

U.S. Wheat Supply-Demand

August 2004 USDA Est. (Million Bu.)

	2002/03	2003/04	2004/05
Beg. Stocks	777	491	546
Production	1,606	2,337	2,123
Total Supplies	2,468	2,900	2,729
Food	923	912	920
Seed	84	80	81
Exports	850	1,195	950
Feed & Residual	119	203	200
Total Use	1,976	2,354	2,151
End Stocks	491	546	578
US Ave Farm \$	\$3.⁵⁸	\$3.⁴⁰	\$2.⁹⁵-^{\$3.⁵⁸}





Wheat \$ Info for 2004/05

□ **Problems for KS Hard Red Winter Wheat**

- Gulf vs PNW transportation disadvantage
- HRW Quality Problems
- HRW \$ strength to lag behind other U.S. classes

□ **HRW \$ Strength in '04/05 depends on...**

- Export buying (China?) to work though low quality HRW supplies
- Unforeseen weather/production problems in World/U.S.???
