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Staff	Paper	
	Soybean Outlook/Discussion 2004 Midwest/Great Plains & West Kansas City, N August 16-17, 2 by	ern Outlook Conference AO
	Jim Hilker Staff Paper #04-11	August 2004
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#### Soybean Outlook/Discussion Presented for the 2004 Midwest/Great Plains & Western Outlook Conference at Kansas City, MO August 16-17, 2004

Jim Hilker

16 pages

#### Abstract:

We should expect 2004-05 soybean prices to be much lower than 2003-04, but near the historically average. On the other hand, while the numbers shown are my best analysis, I feel there is a lot of price risk in both directions as we go from now through the 2004-05 marketing year. While looking good now, the crop was planted late, and some disease problems are showing up. On the demand side, exports will be the key.

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#### Soybean Outlook/Discussion

2004 Midwest/Great Plains & Western Outlook Conference

> August 16-17, 2004 Kansas City, MO.

Staff Paper # 04-11

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The numbers from the August 1 U.S. NASS crop survey that makes up the USDA Crop Production Report were released August 12 at 8:30 am EST. The 2004 U.S. soybean production estimate was 2877 million bushels. The average trade estimate was 2965 million bushels and the range of estimates was 2881 to 3042 million bushels, this puts the estimate a bit below all guesses in the survey. This August estimate is 63 million bushels, 2%, below the July estimate which relied on a trend yield. The August 2004 projection is 459 million bushels, 19%, larger than the drought reduced 2418 million bushel soybean crop harvested in 2003.

The saying goes that the soybean crop is made in August. The August 9 Crop Progress Report increased the soybean condition marginally. What did the August 16 Crop Progress Report say about soybean crop conditions? I have hardly had time to digest the August report and now I wish the September 1 survey results would be released on September 10. So even after the August 12 USDA Crop Production Report I still have more questions than answers. Therefore my soybean price forecast is the same as usual, prices will go up, down, or sideways. Or more exactly, soybean prices will fall within the probability distributions shown at my Web Site -http://www.msu.edu/user/hilker/.

#### 2003-2004 Soybean Marketing Year

The August 12 2003-04 USDA U.S. Soybean Supply and Use estimates can be seen in Table 1. Expected crushings were raised 15 million bushels from the July Report and exports were lowered 10 million bushels. It appears we will reach this number over the next few weeks. See the attached Power Point Presentation for the export to date numbers. Ending stocks as a percent of use was left at 4.2%. The weighted season farm price is expected to be \$7.40. This is a bit lower than I would have expected given my price versus ending stocks-to-use ratio shown in Figure 1.

#### 2004-2005 Soybean Marketing Year

The August USDA Supply/Demand estimates can be seen in Table 1. There were 74.8 million acres of soybeans planted in the U.S. this year, up 1.4 million from last year. Of that, 73.7 million acres are expected to be harvested. The first objective yield survey showed the U.S. at 39.1 bu/ac. This would be almost six bushels better than last year, and the third highest on record. This would be about a half bushel under trend (see Figure 2). When combined with the large harvested acres figure, this would be the second largest soybean crop in U.S. history, only 14 million bushels smaller than 2001.

The question becomes, will the yield get larger or smaller as we move though August? The August 9<sup>th</sup> crop progress report improved 3% in the good to excellent categories, shown in Figure 3. But, I have heard numerous stories of problems with the cool wet weather we saw for a week in a chunk of the soybean belt, i.e., white mold, SDS.

Crushings are expected to recover sharply this next year as we probably won't have to ration to the same degree. The Soybean Meal Supply/Demand Numbers can be seen in Table 2 and the Soybean Oil Supply/Demand Numbers can be seen in Table 3.

Soybean exports are expected to rebound, but not quite to the 2002-03 levels. This is due to expected huge crops from South America. Soy oil exports are only expected to recover to half of the 2002-03 levels, but soy meal exports are expected to get back to 86% of their 2002-03 levels.

Ending stocks as a percent of use is expected to grow to 190 million bushels, 6.8 % of use. The USDA's midpoint price with these numbers is \$5.90/bu. My price versus ending stocks-to-use ratio shown in the Power Point Presentation would suggest \$5.40 /bu., see Figure 1.

#### **International Oilseed Situation**

The World USDA forecasts are attached and will be discussed, in USDA Tables 413-26, 413-27 and 413-28. Excellent write ups of the international oilseed situation can be found in the July and August USDA Oilseed Situation and Outlook Reports. Also see "How Does Structural Change in the Global Soybean Market Affect U.S. Price," it can be found with the Outlook Reports.

World Soybean production is expected to be up 33 MMT, about 1.2 billion bushels. The U.S. is expected to come up with 13 MMT of the increase, and Argentina and Brazil another 19 MMT of the increase. See the increase in land and South American's Yields in Figures 4 and 5.

#### Longer Term

Look at the 10 year trend in U.S. soybean yields shown in Figure 6. It appears to have a negative slope. What does this mean as ethanol production increases the demand for corn? Would even 2% biodiesel, the minimum to get some pollution control, jack the price of soybean up?

#### **Marketing Considerations and Strategies**

In order to have a Marketing Plan you have to know where you are at, i.e., production, amount already priced, production costs, financial situation, and willingness and ability to assume risk. So much for that discussion, but the importance of that discussion should not be forgotten.

Weather is still in the picture in a very large fashion. Many of the soybeans were planted late and an early frost would be trouble. How does one price in this kind of market? At this point the spreads in the futures are s saying the market will pay on-farm storage, but not commercial storage. What basis is your local elevator offering for new crop? Hopefully many have priced lots of soybeans at much higher prices. Should we pull some of our hedges, if the market hits loan rate?

Even though it is difficult to make decisions in a weather market a farmer should not give up and do nothing. It is possible to capture some of this weather premium and the attempt should be made. Don't get too greedy and don't be too timid. Take risks that you understand and can handle financially.

SUPPLY/DEMAND BALANCE SHEET FOR SOYBEANS								
				Estimated	Projected			
	2000-01	2001-02	2002-03	2003-04	2004-05			
		(Millio	n Acres)					
Acres Planted	74.3	74.1	74.0	73.4	74.8			
Acres Harvested	72.4	73.0	72.5	72.3	73.7			
Bu./Harvested Acre	38.1	39.6	38.0	33.4	39.1			
		(Million	Bushels)					
Beginning Stocks	290	248	208	178	105			
Production	2758	2891	2756	2418	2877			
Imports	4	2	5	6	6			
Total Supply	3052	3141	2969	2602	2988			
Use:								
Crushings	1640	1700	1615	1515	1625			
Exports	996	1064	1045	890	1030			
Seed, Feed, Residuals	168	169	131	92	143			
Total Use	2804	2933	2791	2497	2798			
Ending Stocks	248	208	178	105	190			
Ending Stocks, % of Use	8.8	7.1	6.4	4.2	6.8			
Regular Loan Rate	\$5.26	\$5.26	\$5.00	\$5.00	\$5.00			
U.S. Season Average								
Farm Price, \$/Bu.	\$4.54	\$4.38	\$5.53	\$7.40	\$5.90			

## TABLE 1SUPPLY/DEMAND BALANCE SHEET FOR SOYBEANS

Source: USDA and Jim Hilker.

8/12/04

SUPPLY/DEMAND BALANCE SHEET FOR SOYBEAN MEAL								
				Estimated	Projected			
	2000-01	2001-02	2002-03	2003-04	2004-05			
		(Thousand	Short Tons)					
Beginning Stocks	293	383	240	220	175			
Production	39,385	40,292	38,213	35,905	38,710			
Imports	51	143	166	250	165			
Total Supply	39,729	40,819	38,619	36,375	39,050			
Use:								
Domestic	31,643	33,070	32,379	31,900	33,600			
Exports	7,703	7,508	6,019	4,300	5,200			
Total Use	39,346	40,579	38,399	36,200	38,800			
Ending Stocks	383	240	220	175	250			
U.S. Season Average					\$180.00			
Price, \$/Short Ton	\$173.60	\$167.73	\$181.57	\$260.00	\$210.00			

TABLE 2 SUPPLY/DEMAND BALANCE SHEET FOR SOVREAN MEAT

Source: USDA and Jim Hilker.

SUPPLY/DEMAND BALANCE SHEET FOR SOYBEAN OIL								
				Estimated	Projected			
	2000-01	2001-02	2002-03	2003-04	2004-05			
		(Millio	ons Pounds)					
Beginning Stocks		2,767	2,358	1,491	1,051			
Production		18,898	18,438	16,825	18,280			
Imports		46	46	285	105			
Total Supply		21,711	20,843	18,601	19,436			
Use:								
Domestic		16,833	17,089	16,700	17,200			
Exports		2,519	2,263	850	1,050			
Total Use		19,353	19,352	17,550	18,250			
Ending Stocks		2,358	1,491	1,051	1,186			
U.S. Season Average					23.00-			
Price, ¢/lb.		16.46¢	22.04¢	30.00¢	26.00¢			

TABLE 3 SUPPLY/DEMAND BALANCE SHEET FOR SOYBEAN OIL

Source: USDA and Jim Hilker.

USDA WASDE-413-26 World Soybean Supply and Use 1/ (Million Metric Tons)								
	=====	========= :	Supply	=======	:	use		:
		:========	=======		:======			Ending
Region		: . Do admada a	:	:	:		:	:stocks
		:Beginning : stocks			: Dom s: Crush	estic : Total	: :Exports	
	=====							
		:			02/03			
World 2/ United States		: 32.18 : 5.66	197.31 75.01	62.79 0.13	164.84 43.97	190.51 47.52	62.06 28.42	39.73 4.85
Total foreign		: 26.52	122.30	62.67		142.99	33.63	4.05 34.87
Major exporters		: 21.33	92.50	1.72	51.90	55.92	32.04	27.59
Argentina		: 10.16	35.50	0.40	23.53	24.86	8.71	12.48
Brazil		: 11.07	52.50	1.32	27.17	29.76	20.13	15.00
Major importers		: 4.30	18.79	51.30	53.54	67.63	0.32	6.44
China EU-25		: 2.10 : 1.08	16.51	21.42	26.54	35.29 17.84	0.27	4.47
EU-25 Japan		: 1.08 : 0.67	0.89 0.27	16.82 5.09	16.26 4.01	5.32	0.03	0.93 0.70
Mexico		: 0.10	0.09	4.23	4.34	4.38	0.00	0.05
		:			(Estimat			
World 2/		: 39.73	189.12	55.59	166.10	191.83	56.42	36.19
United States		: 4.85	65.80	0.17	41.23	43.72	24.22	2.87
Total foreign		: 34.87	123.32	55.42	124.87	148.10	32.20	33.32
Major exporters Argentina		: 27.59 : 12.48	90.60 34.00	0.93 0.33	56.06 24.78	60.67 26.36	29.96 8.00	28.49 12.46
Brazil		: 15.00	52.60	0.33	24.78	32.84	19.50	12.40
Major importers		: 6.44	18.13	44.59	50.67	64.88	0.37	3.92
China		: 4.47	16.00	16.90	25.72	34.97	0.30	2.10
EU-25		: 0.93	0.73	15.59	14.92	16.38	0.03	0.84
Japan		: 0.70	0.23	4.90	3.85	5.18	0.00	0.65
Mexico		: 0.05 :	0.13	4.00	4.10	4.13	0.00	0.04
		:		2004/05	(Project	(ed)		
World 2/		:		,	()	,		
July		: 33.50	224.57	65.68	181.40	210.41	66.33	47.00
August		: 36.19	222.84	64.48	179.70	208.51	64.81	50.20
United States		:	0.0 0.1	0 1 4			00 50	
July August		: 2.87 : 2.87	80.01 78.29	0.14 0.16	44.77 44.22	48.74 48.11	28.58 28.03	5.70 5.18
Total foreign		: 2.07	10.29	0.10	44.22	40.11	20.03	5.10
July		: 30.63	144.55	65.55	136.64	161.67	37.76	41.30
August		: 33.32	144.55	64.32	135.48	160.40	36.78	45.02
Major exporters		:						
July		: 25.78	110.00	1.15	62.60	67.63	35.27	34.03
August	T., ]		110.00	1.05	62.28 26.00	67.37	34.29	37.89
Argentina	Jul Aug		39.00 39.00	0.35 0.35	26.00	27.57 27.57	8.92 8.27	15.06 15.97
Brazil	Jul		66.00	0.80	35.00	38.36	23.35	18.58
	Aug		66.00	0.70	34.66	38.02	23.07	21.47
Major importers	4/	:						
July		: 3.94	19.84	53.91	55.74	71.20	0.26	6.23
August		: 3.92	19.84	52.58	54.76	70.01	0.26	6.08
China	Jul Aug		17.50 17.50	24.00 23.00	29.10 28.30	39.00 38.20	0.20 0.20	4.40 4.20
EU-25	Aug Jul		0.84	23.00 16.09	28.30 15.50	38.20 16.94	0.20	4.20 0.80
	Aug		0.84	16.16	15.50	16.96	0.03	0.85
Japan	Jul		0.28	5.00	3.88	5.26	0.00	0.67
	Aug		0.28	5.00	3.88	5.26	0.00	0.67
Mexico	Jul		0.11	4.40	4.47	4.51	0.00	0.04
	Aug		0.11	4.60	4.68	4.71	0.00	0.04

USDA WASDE-		(Mi	llion Me	etric Ton			
=======================================	=====	:	Supply		: Us		
		:=========			:==========	=======:	Ending
Region		:	:	:	: :	:	stocks
		Beginning			: Total :	:	
					: Domestic:		
=======================================	=====						
		:		200	2/03		
World 2/		: 4.15	130.11	43.64	131.97	42.16	3.77
United States		: 0.22	34.67	0.15	29.37	5.46	0.20
Total foreign		: 3.93	95.44	43.49	102.60	36.69	3.57
Major exporters	3/	: 1.09	42.77	0.32	9.86	33.44	0.89
Argentina		: 0.30	18.59	0.00	0.23	18.46	0.20
Brazil		: 0.75	21.46	0.32	8.12	13.75	0.64
India		: 0.04	2.73	0.00	1.50	1.23	0.05
Major importers	4/	: 1.38	35.93	26.64	61.63	1.14	1.19
EU-25		: 1.05	12.88	21.64	34.36	0.35	0.87
China		: 0.00	21.00	0.00	20.20	0.80	0.00
		:		0000/04			
Warald 0 (		: : 3.77	121 66	46.01	(Estimated)		3.77
World 2/ United States		: 0.20	131.66 32.57	40.01	132.63 28.94	45.04 3.90	0.16
Total foreign		· 0.20 · 3.57	32.57 99.08	45.78	28.94 103.69	3.90 41.14	3.61
Major exporters	3/	: 0.89	48.06	0.28	10.24	37.98	1.01
Argentina	57	: 0.20	19.82	0.20	0.24	19.69	0.10
Brazil		: 0.64	23.64	0.00	8.75	14.94	0.10
India		: 0.05	4.60	0.00	1.25	3.35	0.04
Major importers	4 /	: 1.19	34.11	27.94	61.20	0.92	1.13
EU-25	- /	: 0.87	11.86	23.60	35.18	0.30	0.85
China		: 0.00	20.52	0.05	19.97	0.60	0.00
		:					
		:		2004/05	(Projected)		
World 2/		:	142 00	40 F1	142.00	40 71	4 05
July			143.99	48.51	143.08	48.71	4.25
August		: 3.77 :	142.44	47.97	141.55	48.16	4.47
United States				0 1 5	30.66	4 0 4	0 0 0
July August		: 0.16 : 0.16	35.52 35.12	0.15 0.15	30.66	4.94 4.72	0.23 0.23
Total foreign		: 0.10	33.12	0.15	30.40	4.72	0.25
July		: 3.39	108.46	48.36	112.42	43.76	4.03
August		: 3.61		47.82	111.07	43.44	4.24
Major exporters	3/		107.55	17:02	111.07	13.11	1.21
July	07		52.22	0.15	11.38	40.38	1.36
August		: 1.01	51.94	0.15	11.66	39.85	1.59
Argentina	Jul		20.69	0.00	0.24	20.15	0.40
-	Aug		20.69	0.00	0.24	20.15	0.40
Brazil	Jul		27.64	0.15	9.35	18.12	0.92
	Aug	: 0.87	27.37	0.15	9.65	17.60	1.14
India	Jul	: 0.04	3.88	0.00	1.78	2.10	0.04
	Aug	: 0.04	3.88	0.00	1.77	2.10	0.05
Major importers	4/						
July		: 1.18	38.01	29.90	67.05	0.93	1.11
August		: 1.13	36.89	29.15	64.97	1.13	1.07
EU-25	Jul		12.32	24.50	36.60	0.31	0.77
~1 \	Aug		12.32	24.50	36.60	0.31	0.77
China	Jul		23.42	0.00	22.82	0.60	0.00
	Aug		22.60	0.00	21.80 ========	0.80	0.00
========================	=====	==========				========	

(Million Metric Tons)							
	=====						
		:	Supply	:	Use		The distance
Region		• = = = = = = = = = = = = = = = = = = =		: : :	:	:======================================	
Region		:Beginning			Total :		SLOCKS
					Domestic:		
							=========
		:		2002	/03		
World 2/		: 2.55	30.46	8.68	30.71	9.17	1.82
United States		: 1.07	8.36	0.02	7.75	1.03	0.68
Total foreign		: 1.48	22.10	8.66	22.96	8.14	1.14
Major exporters	3/	: 0.54	12.54	0.12	5.50	7.31	0.38
Argentina		: 0.13	4.38	0.00	0.12	4.34	0.05
Brazil		: 0.18	5.19	0.07	3.07	2.27	0.10
EU-25		: 0.24	2.97	0.05	2.32	0.71	0.23
Major importers	4/	: 0.41	5.38	3.13	8.51	0.02	0.38
China		: 0.21	4.73	1.71	6.39	0.01	0.25
India		: 0.19	0.63	1.25	1.95	0.01	0.13
Pakistan		: 0.01 :	0.02	0.16	0.17	0.00	0.01
Warald 0/					Estimated)	0 01	1 50
World 2/ United States		: 1.82 : 0.68	30.45 7.63	8.84 0.13	30.53 7.57	9.01 0.39	1.58 0.48
Total foreign		: 1.14	22.82	8.72	22.96	8.62	1.10
Major exporters	3/	: 0.38	13.02	0.09	5.36	7.78	0.35
Argentina	57	: 0.05	4.61	0.09	0.11	4.51	0.04
Brazil		: 0.10	5.71	0.07	3.13	2.66	0.09
EU-25		: 0.23	2.70	0.02	2.12	0.61	0.22
Major importers	4 /	: 0.38	5.65	3.49	9.02	0.03	0.49
China	- /	: 0.25	4.58	2.70	7.16	0.01	0.35
India		: 0.13	1.06	0.65	1.70	0.02	0.13
Pakistan		: 0.01	0.01	0.14	0.15	0.00	0.01
		:					
		:	:	2004/05 (	Projected)		
World 2/		:					
July		: 1.48	33.33	10.04	32.93	10.22	1.70
August		: 1.58	33.03	9.84	32.78	10.02	1.65
United States		:					
July		: 0.47	8.39	0.05	7.85	0.52	0.54
August		: 0.48	8.29	0.05	7.80	0.48	0.54
Total foreign		:	04 04	0 00		0 70	1 1 C
July		: 1.00 : 1.10	24.94	9.99	25.08 24.98	9.70 9.54	1.16 1.11
August Major exporters	2/	:	24.74	9.79	24.98	9.54	1.11
July		: 0.35	14.32	0.10	5.67	8.69	0.41
August		: 0.35	14.32	0.10	5.67	8.63	0.41
Argentina	Jul		4.84	0.00	0.12	4.64	0.13
ni generna	Aug		4.84	0.00	0.12	4.64	0.13
Brazil	Jul		6.68	0.05	3.35	3.37	0.10
210211	Aug		6.62	0.05	3.35	3.31	0.10
EU-25	Jul		2.80	0.05	2.20	0.69	0.18
	Aug		2.80	0.05	2.20	0.69	0.18
Major importers	4/	:					
July		: 0.37	6.08	3.92	9.90	0.03	0.44
August		: 0.49	5.94	3.70	9.68	0.03	0.42
China	Jul		5.18	2.66	7.77	0.02	0.28
	Aug		5.04	2.40	7.51	0.02	0.27
India	Jul		0.90	1.15	2.02	0.01	0.16
	Aug		0.90	1.15	2.02	0.01	0.15
Pakistan	Jul		0.01	0.11	0.12	0.00	0.00
	Aug		0.01	0.15	0.15	0.00	0.01

USDA WASDE-413-28 World Soybean Oil Supply and Use 1/ (Million Metric Tons)

1/ Data based on local marketing years except Argentina and Brazil which are adjusted to an October-September year. 2/ World imports and exports may not balance due to differences in local marketing years and to time lags between reported exports and imports. Therefore, world supply may not equal world use. 3/ Argentina, Brazil and Paraguay. 4/ Japan, China, and EU, Mexico, and Southeast Asia (includes Indonesia, Malaysia, Philippines, and Thailand).

1/ Data based on local marketing years except for Argentina and Brazil which are adjusted to an October-September year. 2/ World imports and exports may not balance due to differences in local marketing years and to time lags between reported exports and imports. Therefore, world supply may not equal world use. 3/ Argentina, Brazil, and India. 4/ Eastern Europe, China, EU, and Southeast Asia (includes Indonesia, Malaysia, Philippines, and Thailand)

1/ Data based on local marketing years except for Argentina and Brazil which are adjusted to an October-September year. 2/ World imports and exports may not balance due to differences in local marketing years and to time lags between reported exports and imports. Therefore, world supply may not equal world use. 3/ Argentina, Brazil and EU. 4/ India, China and Pakistan.



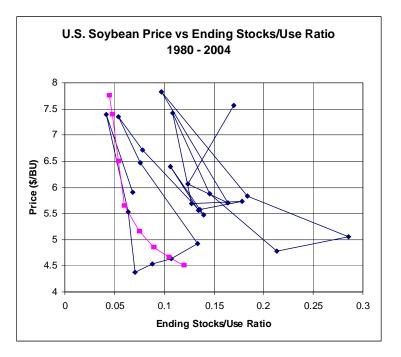
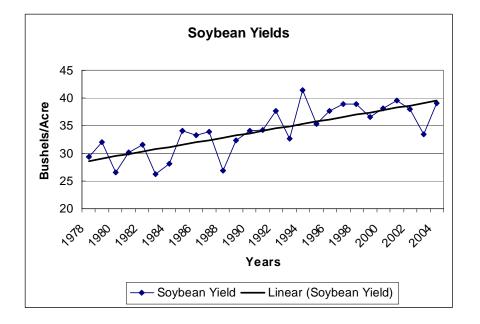


Figure 2



### Figure 3

Soybeans: Percent Blooming, Selected States 1/									
: Week Ending : :: 1999- State:Aug 8, :Aug 1, :Aug 8, : 2003									
		: 2004							
:	: Percent								
AR :	92	84	81	83					
IL :	96	93	90	94					
IN :	95	90	78	91					
IA :	98	95	94	97					
KS :	87	78	82	85					
KY :	75	63	63	75					
LA :	97	95	89	95					
MI :	82	60	82	88					
MN :	90	81	98	97					
MS :	100	99	99	99					
MO :	83	74	73	80					
NE :	95	85	93	95					
NC :	76	58	55	55					
ND :	96	83	97	98					
OH :	94	85	89	92					
SD :	91	81	94	93					
TN :	82	72	65	78					
WI :	75	58	81	84					
:									
18 Sts:	92	84	87	91					

1/ These 18 States planted 96% of last year's soybean acreage.

Figure 4 from Bob Wisner, I.S.U.

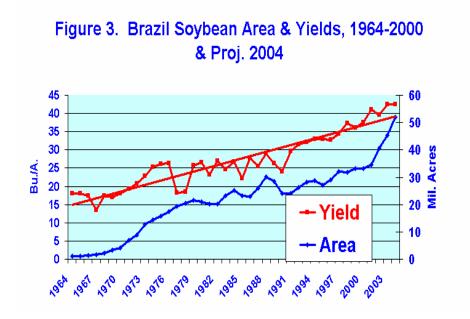


Figure 5 from Bob Wisner, I.S.U.

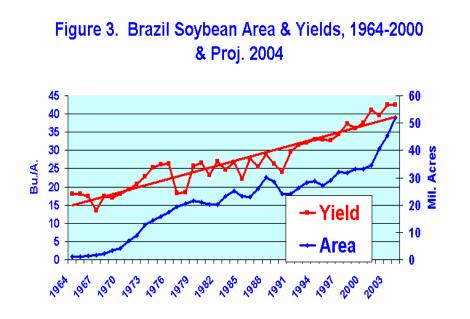


Figure 6

