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May 7, 2010 Final Values

2010 CURRENT AGRICULTURAL USE VALUE OF LAND TABLES

EXPLANATION OF THE CALCULATION OF VALUES FOR VARIOUS SOIL MAPPING UNITS FOR TAX YEAR 2010

The annual current agricultural use values of land are calculated by the capitalization of net income from agricultural products assuming typical management, cropping and land use patterns, and yields for given types of soils. The necessary information is available for approximately 3,500 map units, which are the soils with slopes less than 25 percent. The information used for a capitalized net income approach is as follows:

YIELD INFORMATION CROPPING PATTERNS CROP PRICES NON-LAND PRODUCTION COSTS CAPITALIZATION RATE

Each of these factors is explained below.

A. YIELD INFORMATION

For each of the soil mapping units, data regarding typical yields of each of the major field crops (corn, soybeans and wheat) were last published in 1984. In order to reflect more accurate yields, those yields of record have been updated annually since 2006. The yields are updated by a factor based on ten years of statewide yield information published by the Ohio Department of Agriculture. For 2010, yield data from calendar years 1999-2008 were averaged and divided by the 1984 yield for each crop. This factor is applied to the 1984 crop yield of record for each soil.

B. CROPPING PATTERNS

The cropping pattern for each map unit is assigned a rotation based on the most recent five-year average of crop acres harvested in Ohio: 39% corn, 51% beans, and 10% wheat. This rotation is based on data from 2004-2008 and closely reflects current agricultural markets in Ohio. The acres harvested in each year are shown in Exhibit A (see page 5).

There are two exceptions as follows:

- 1.) Soil map units with a productivity index of 55 or less are assumed to be most profitably used as pasture. Therefore, in 2010 a minimum value of \$200 is used for these soils; in 2009, the minimum value was \$170.
- 2.) A pattern of 50% corn and 50% soybeans is used for organic soil map units.

C. CROP PRICE INFORMATION

The crop prices used for the field crops are five-year weighted average prices. Crop price data is collected for seven years with the highest and lowest prices eliminated, and the average calculated using the remaining five years' data. The prices are weighted based on the statewide production for each year. For this calculation, the seven-year period is 2002 through 2008. The table shows average weighted prices for this period as well as prices for the three previous years. Each weighted price is reduced by 5% to allow for management.

		TY 2007	TY 2008	TY 2009	TY 2010
Crop	Unit	1995-2005	2000-2006	2001-2007	2002-2008
Corn	Bushel	\$1.96	\$2.02	\$2.29	\$2.66
Soybeans	Bushel	\$4.89	\$5.19	\$5.60	\$6.41
Wheat	Bushel	\$2.64	\$2.89	\$3.05	\$3.41

The annual production and price per unit for each of these crops for the 2002 through 2008 period are shown in Exhibit A-1 (see page 6).

D. NON-LAND PRODUCTION COSTS

Data on crop production costs were used to estimate average non-land production costs. The data are taken from the Ohio Crop Enterprise Budgets prepared by The Ohio State University Department of Agricultural, Environmental, and Development Economics for 2003-2009, inclusive. Again, data are collected for the seven-year period and the highest and lowest costs for each category are eliminated from the array. Five-year average costs per unit of specific non-land production cost items are computed from the remaining data as shown in Exhibit B-1 (see page 7).

The budgets are computed for each crop at a base yield equal to the lowest yield reported and for each additional unit above the base yield based on information from the Ohio Crop Budgets (see Exhibits B-2 through Exhibit B-4, pages 8-10).

The five year average non-land production costs for tax year 2010 are summarized below and compared with the costs used for tax year 2007 and 2009:

NON-LAND PRODUCTION COSTS									
Crop - Base Cost	Yield	TY 2007	TY 2009	TY 2010					
Corn	118 bu	\$235.70	\$264.12	\$286.65					
Soybeans	36 bu	\$168.14	\$175.21	\$189.10					
Wheat	52 bu	\$153.67	\$159.01	\$170.16					
Additional Cost per	Unit								
Corn	1 bu	\$ 0.91	\$ 0.72	\$ 0.83					
Soybeans	1 bu	\$ 0.49	\$ 0.57	\$ 0.66					
Wheat	1 bu	\$ 0.81	\$ 0.86	\$ 1.14					

E. CAPITALIZATION RATE:

Five-year averaging is used to derive the Farm Credit Service interest rate of 7.09% assuming a 60% loan for a 15-year term, payable annually, and an interest rate of 7.45% for the 40 percent equity portion (see Exhibit C, page 11). A five percent appreciation over a period of 5 years is included to address the increase in farmland values due to the demand for additional land in an increasingly efficient operation.

The capitalization rate for typical Ohio farmland, not including real property market inflation, was computed by the Akerson mortgage-equity method as follows:

60% loan x annual debt service of 0.11042		=	0.0663
40% Equity x equity yield rate of .0745		=	0.0298
Subtotal <u>Less</u> equity buildup for 5 years			0.0961
% loan x % mortgage paid off x sinking fund factor at equity rate for 5 years	•		
(0.60) [1- (6.995/9.0564)] (0.172337)		=	(0.0235)
<u>Less</u> 5% appreciation times sinking fund factor @ equity yield rate of .0745			
.05 x 0.172337	_ =		(0.0086)
Capitalization Rate before Taxes	=		0.0639 or 6.4%

For tax year 2008 the statewide average effective tax rate after application of the reduction factors, (Section 319.301 Ohio Revised Code), levied on agricultural property was 43.18 mills. The ten percent rollback authorized by Section 319.302 of the Code reduced this rate further to 38.87 mills. As a percent of market value the effective tax rate to be used in this year's capitalization formula is 1.4%, $(.35 \times 38.87)/1000$.

Capitalization rate including R.E. taxes 7.8%

The 7.8% capitalization rate is the base rate for typical Ohio farmland.

F. CROPLAND VALUES

The current agricultural use cropland value equals the net return for the rotation acre of the soil map unit divided by the capitalization rate. The minimum value for cropland is \$200 per acre for soils with 25 percent slope or less.

G. WOODLAND VALUE

- 1.) The woodland value, with slopes of 25% or less, equals the cropland value less the costs to convert the woodland to cropland. The conversion costs are as follows:
 - a. Clearing \$500 per acre for all soils
 - b. Drainage
 - a.) Excessively drained, well drained, moderately well drained,
 (E, W, MW) No Conversion Cost
 - b.) Somewhat poorly drained, poorly drained, very poorly drained, saturated (SWP, P, VP) \$500 for Tile Drainage
 - c.) For the following soil series, a \$250 adjustment for surface drainage is to be used: Allis, Atkins, Blanchester, Bono, Canadice, Clermont, Condit, Conneaut, Darien, Delmar, Frenchtown, Fries, Ginat, Ilion, Latty, Lorain, McGuffey, Mill, Miner, Montgomery, Muskego, Pauling, Peoga, Piopolis, Purdy, Roselms, Sheffield, Swanton, Toledo, Trumbull, Valley, Wabash, Wabasha, Warners, Wayland, Willette, and Zipp
- 2.) The minimum value for woodland with slopes of 25% or less, is \$120.

H. PASTURELAND VALUE

Where soil map units listed in these tables or comparable soils are used for permanent pasture, the land should be valued as cropland unless clearing or drainage costs would be incurred in converting the land to cropland. If so, appropriate deduction should be made for the capital investment necessary for the land to be tilled.

I. MINIMUM VALUES

Slopes of 25% or less:

Cropland \$200 Woodland & pasture \$120

Slopes greater than 25%

Woodland & pasture \$100

Exhibit A - Acres Harvested, 2004-2008 TY 2010 Crop Rotation

	0	% of		% of		% of	Corn, Beans & Wheat		Statewide
<u>Year</u>	<u>Corn</u>	<u>Total</u>	Soybeans	Total	<u>Wheat</u>	<u>Total</u>	<u>Totals</u>	<u>Total</u>	Total Acres
2004 2005 2006 2007 2008	3,410,000 3,110,000 3,780,000	33.9% 31.0% 38.2%	4,420,000 4,480,000 4,620,000 4,130,000 4,480,000	44.6% 46.1% 41.7%	890,000 830,000 960,000 730,000 1,090,000	9.0% 8.3% 9.6% 7.4% 10.8%	8,610,000 8,720,000 8,690,000 8,640,000 8,830,000	86.8% 86.7% 87.2%	9,917,300 10,050,000 10,021,200 9,906,700 10,081,500
Five Year Average	3,372,000	39%	4,426,000	51%	900,000	10%	8,698,000	87%	9,995,340

Ohio Dept. of Agriculture Annual Report--Table 5

	c. Oillo Agri	cultural Statistic	S Sei	vice	
	year	production		price	value (1000
CORN	2002	252,560	\$	2.50	631,4
	2003	478,920		2.45	1,173,3
	2004	491,380	\$	1.85	909,0
	2005	464,750	\$	1.80	836,5
	2006	470,640	\$	3.30	1,553,1
	2007	541,500	\$	3.95	2,138,9
	2008	421,200	\$	3.95	1,663,7
Totals		2,114,700			5,930,6
Weighted Avg. Price			\$	2.80	
After Management	Allowance of	5%	\$	2.66	
SOYBEANS	2002	141,300	\$	5.45	770,0
	2003	162,640	\$	7.20	1,171,0
	2004	207,740	\$	5.15	1,069,8
	2005	201,600	\$	5.55	1,118,8
	2006	217,140	\$	6.25	1,357,1
	2007	194,110	\$	10.10	1,960,5
	2008	161,280	\$	9.60	1,548,2
Totals		883,960			5,965,3
Weighted Avg. Price			\$	6.75	
After Management	Allowance of	5%	\$	6.41	
WHEAT	2000	50.000		0.00	
WITEAI	2002	50,220	\$	3.20	160,7
	2003	68,000	\$	3.20	217,6
	2004	55,180	\$	3.15	173,8
	2005	58,930		3.20	188,5
	2006	65,280	\$	3.30	215,4
	2007	45,990	\$	5.50	252,9
T-4-I-	2008	74,120	\$	5.80	429,8
Totals	_	288,420			1,035,2
Weighted Avg. Price			\$	3.59	
After Management	Allowance of	5%	\$	3.41	

Exhibit B-1, Production Costs, Tax Year 2010 Determination of Five Year Average Costs for the Projected Crop Budgets										
		1110 100	Averag	je oosts	ioi ale r	Tojected	CIOP BI	Jugets		5 vr
ITEM		UNITS	2003	2004	2005	2006	2007	2008	2009	5 yr. Avg.
VARIABLE COSTS									2.000	
Seed	CORN	1000k	\$ 1.10	\$1.10	\$1.10	\$1.13	\$1.16	\$2.05	\$2.50	\$1.3
	SOYBEANS	1000s	\$0.10	\$0.10	\$0.12	\$0.21	\$0.21	\$0.23	\$0.29	\$0.1
	WHEAT	1000s	\$0.0 1	\$0.01	\$0.01	\$0.01	\$0.01	\$0.02	\$0.02	\$0.0
Fertilizer	N Com		\$0.24	\$0.24	\$0.26	\$0.34	\$0.29	\$0.49	¢0 EE	
	N Wheat	 - 	\$0.2 4	\$0.24	\$0.26	\$0.34	\$0.25	\$0.49 \$0.71	\$0.55 \$0.71	\$0.3 \$0.3
	P2O5		\$0.24	\$0.24	\$0.30	\$0.31	\$0.31	\$0.87	\$0.77	\$0.3
	K2O		\$0.13	\$0.13	\$0.18	\$0.21	\$0.20	\$0.48	\$0.72	\$0.2
	LIME		\$12.00	\$12.00	\$22.00	\$22.00	\$22.00	\$23.50	\$25.00	\$20.3
Chaminala			***	***						
Chemicals	CORN		\$22.00	\$22.00	\$24.00	\$24.42	\$24.42	\$26.86	\$42.00	\$24.3
	SOYBEANS		\$26.00	\$26.00	\$39.00	\$21.10	\$21.10	\$21.10	\$30.00	\$24.8
	WHEAT		\$7.00	\$7.00	\$7.00	\$ 6.86	\$6.86	\$7.55	\$13.00	\$7.0
Fuel, Oil, Grease	CORN	-118	\$7.00	\$7.00	\$9.00	\$10.58	\$9.61	\$18.87	\$13.48	\$9.93
		-150	\$7.00	\$7.00	\$9.00	\$10.58	\$9.61	\$18.87	\$13.48	\$9.9
		-184	\$7.00	\$7.00	\$9.00	\$10.58	\$9.61	\$18.87	\$13.48	\$9.9
	SOYBEANS	-36	\$5.00	\$5.00	\$7.00	\$7.67	\$6.97	\$13.63	\$9.74	\$7.28
		-48	\$ 5.00	\$5.00	\$7.00	\$7.67	\$6.97	\$13.63	\$9.74	\$7.28
		-60	\$ 5.00	\$5.00	\$7.00	\$7.67	\$6.97	\$13.6 3	\$9.74	\$7.28
	WHEAT	-52	\$5.00	\$5.00	\$6.00	\$8.20	\$7.46	\$14.51	\$10.37	\$7.4
		-67	\$ 5.00	\$5.00	\$6.00	\$8.20	\$7.46	\$14.51	\$10.37	\$7.4
		-82	\$5.00	\$5.00	\$6.00	\$8.20	\$7.46	\$14.5 1	\$10.37	\$7.4
Repairs	CORN	-118	\$10.00	\$10.00	\$12.00	\$10.72	\$10.66	\$15. 2 3	£10.60	£40.0
. topano	JOKN	-150	\$10.00	\$10.00	\$12.00	\$10.72	\$10.66	\$15.23	\$10.68	\$10.8
		-184	\$10.00	\$10.00	\$12.00	\$10.72	\$10.66	\$15.23	\$10.68	\$10.81
	SOYBEANS	-36	\$13.00	\$13.00	\$11.00	\$7.80	\$7.80	\$10.59	\$10.68	\$10.81
	COTSERIO	-48	\$13.00	\$13.00	\$11.00	\$7.80	\$7.80	\$10.59	\$7.59 \$7.59	\$10.04
		-60	\$13.00	\$13.00	\$11.00	\$7.80	\$7.80	\$10.59	\$7.59	\$10.04 \$10.04
	WHEAT	-52	\$11.00	\$11.00	\$11.00	\$8.71	\$8.71	\$27.47	\$9.15	\$10.02
		-67	\$11.00	\$11.00	\$11.00	\$8.71	\$8.71	\$27.47	\$9.15	\$10.17
		-82	\$11.00	\$11.00	\$11.00	\$8.71	\$8.71	\$27.47	\$9.15	\$10.17
Missellanesus	2000	440		A (0 0 0 0	22.22					
Miscellaneous	CORN	-118	\$12.00	\$12.00	\$6.00	\$6.00	\$6.00	\$6.00	\$7.00	\$7.40
		-150	\$13.00	\$13.00	\$7.00	\$7.00	\$7.00	\$7.00	\$8.00	\$8.40
	SOYBEANS	-184 -36	\$14.00 \$12.00	\$14.00	\$8.00	\$8.00	\$8.00	\$8.00	\$9.00	\$9.40
	SOIBEANS	-48	\$13.00	\$12.00 \$13.00	\$7.00 \$7.00	\$7.00	\$7.00	\$7.00	\$8.00	\$8.20
		-60	\$14.00	\$14.00	\$7.00	\$7.00	\$7.00	\$7.00	\$8.00	\$8.40
	WHEAT	-52	\$12.00	\$12.00	\$6.00	\$7.00 \$6.00	\$7.00 \$6.00	\$7.00	\$8.00	\$8.60
	WILLA!	-67	\$13.00	\$13.00	\$6.00	\$6.00	\$6.00	\$6.00 \$6.00	\$6.00 \$6.00	\$7.20
		-82	\$14.00	\$14.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$7.40 \$7.60
Drying:										
Fuel & Electric	CORN		\$0.18	\$0.13	\$0.15	\$0.16	\$0.11	\$0.11	\$0.11	\$0.13
Frucking:										
Fuel Only	CORN		\$0.04	\$0.04	\$0.04	\$0.06	\$0.06	\$0.09	\$0.15	\$0.06
	SOYBEANS		\$0.03	\$0.03	\$0.04	\$0.06	\$0.06	\$0.09	\$0.15	\$0.06
	WHEAT		\$0.03	\$0.03	\$0.03	\$0.06	\$0.06	\$0.09	\$0.15	\$0.05
		\perp								
nterest on variable cos FIXED COSTS	sts	-	9.00%	9.00%	6.50%	8.00%	8.50%	9.00%	9.00%	8.70%
abor Charge	CORN	+	633 40	¢22.40	636.00	626.00	630.00	640.00	040.00	000 ==
andi oliatye	SOYBEANS		\$32.40 \$23.40	\$32.40	\$36.00	\$36.00	\$36.00	\$48.60	\$43.20	\$36.72
	WHEAT	 	\$23.40 \$18.00	\$23.40 \$18.00	\$20.00 \$20.00	\$20.00 \$20.00	\$20.00 \$20.00	\$27.00 \$27.00	\$27.00 \$27.00	\$22.76 \$21.00
			Ψ.υ.σσ	\$10.00	Ψ20.00	Ψ20.00	Ψ20.00	φ=1.00	ΨΔ1.00	φ2 1.00
Aachinery & Equipment	CORN		\$59.00	\$59.00	\$55.00	\$52.85	\$54.35	\$65.07	\$64.45	\$58.36
	SOYBEANS		\$54.00	\$54.00	\$47.00	\$44.60	\$46.56	\$53.86	\$52.45	\$50.77
	WHEAT	1	\$52.00	\$52.00	\$48.00	\$48.51	\$50.01	\$56.71	\$55.16	\$51.54

2010 CORN BUDGET conservation tillage

				INPUTS			5 YEAR AVERAGE COST	
ITEM		UNITS		SE 18 <u>HEL</u>	@ ADD. 32 <u>BUSHEL</u>	AVG. COST	BASE 118 BUSHEL	@ ADD. BUSHEL
SEED:	KERNEL	S (1000's)) 2	8	0.13	\$1.31	\$36.68	\$0.17
FERTILIZER:								
	N*	LB.	12	28	18	\$0.32	\$40.96	\$0.18
	P2O5	LB.	43		12.2	\$0.39	\$17.04	\$0.15
	K20	LB.	31	.9	8.9	\$0.24	\$7.66	\$0.07
	LIME	TON	0.2	25	0	\$20.30	\$5.08	\$0.00
CHEMICALS:						\$24.34	\$24.34	\$0.00
FUEL, OIL, GREASE						\$9.93	\$9.93	\$0.00
REPAIRS:						\$10.81	\$10.81	\$0.00
MISCELLANEOUS:						\$7.40	\$7.40	\$0.03
DRYING: FUEL & ELECTRIC	ONLY				\$0.13	\$15.34	\$15.34	\$0.13
TRUCKING: FUEL ONLY						\$0.06	\$7.08	\$0.06
	SUBTOTAL						\$182.31	\$0.79
INTEREST: ON SUBTOTALED	COST		8.7%/12 X 0.0		OS int x subtotal		\$9.25	\$0.04
LABOR CHARGE:						\$36.72	\$36.72	\$0.00
MACHINERY & EQUIPMENT	CHARGE:		·			\$58.36	\$58.36	\$0.00
	TOTALS						\$286.65	\$0.83
			•					

09/24/2009

2010 SOYBEAN BUDGET NO TILLAGE PRACTICES

		INP	UTS	5 YR. AVG.	5 YR. AVERAGE COST		
ITEM	UNITS	BASE 36	@ ADD. 12	COST	BASE 36	@ ADD.	
		<u>BUSHEL</u>	<u>BUSHEL</u>		<u>BUSHEL</u>	BUSHEL	
SEED:	seeds (1000s) 180.0	0	\$0.17	\$30.60	\$0.00	
FERTILIZER:							
N	LB.	0	0	\$0.00	\$0.00	\$0.00	
P2O5	LB.	28.8	8	\$0.39	\$11.23	\$0.26	
K20	LB.	50.4	14	\$0.24	\$12.10	\$0.28	
LIME	TON	0.25	0	\$20.30	\$5.08	\$0.00	
CHEMICALS:			s.	\$24.84	\$24.84	\$0.00	
FUEL, OIL, GREASE				\$7.28	\$7.28	\$0.00	
REPAIRS:				\$10.04	\$10.04	\$0.00	
MISCELLANEOUS:				\$8.20	\$8.20	\$0.04	
TRUCKING: FUEL ONLY				\$0.06	\$2.16	\$0.06	
SUBTOTA	AL	8.7%/12 X 5 MO	s		\$111.52	\$0.64	
INTEREST: ON SUBTOTA	LED COST	0.0363	int x subtotal		\$4.04	\$0.02	
LABOR CHARGE:				\$22.76	\$22.76	\$0.00	
MACHINERY & EQUIPME	NT CHARGE:			\$50.77	\$50.77	\$0.00	
TOTALS					\$189.10	\$0.66	

09/24/2009

2010 WHEAT BUDGET

			INP	UTS	5 YR. AVG.	5 YR. AVER	AGE COST
ITEM		UNITS	BASE 52	@ ADD. 15	COST	BASE 52	@ ADD.
			<u>BUSHELS</u>	BUSHEL		BUSHELS	BUSHEL
SEED:		seeds (1000s	1,400	0	\$0.01	\$14.00	\$0.00
FERTILIZER:			\$				
	N	LB.	43.5	26.3	\$0.38	\$16.53	\$0.67
•	P2O5	LB.	32.8	9.4	\$0.39	\$12.79	\$0.24
	K20	LB.	39.2	5.6	\$0.24	\$9.41	\$0.09
	LIME	TON	0.25	0	\$20.30	\$5.08	\$0.00
CHEMICALS:					\$7.08	\$7.08	\$0.00
FUEL, OIL, GREAS	SE				\$7.41	\$7.41	\$0.00
REPAIRS:					\$10.17	\$10.17	\$0.00
MISCELLANEOUS	:				\$7.20	\$7.20	\$0.03
TRUCKING: FUEL	ONLY				\$0.05	\$2.60	\$0.05
SL	JBTOTAL		8.7%/12 X 8 MO	s		\$92.27	\$1.08
INTEREST: ON SU	BTOTAL		0.0580	int x subtotal		\$5.35	\$0.06
LABOR CHARGE:					\$21.00	\$21.00	\$0.00
MACHINERY & EQ	UIPMENT	CHARGE:			\$51.54	\$51.54	\$0.00
09/24/2009	TALS					\$170.16	\$1.14

01/04/2010

RATES USED IN CAPITALIZATION RATE 2004-2010

TAX YEAR	INTEREST RATE	EQUITY RATE
2004	7.00	6.00
2005	7.10	7.25
2006	7.70	9.50
2007	7.70	10.25
2008	6.95	9.25
2009	6.55	5.25
2010	6.70	5.25
	7.09	7.45

^{*} interest rate is based on a 15 year adjustable multi flex loan with the rate coming from www.e-farmcredit.com / today's rates

ACTUAL CAPITALIZATION RATES USED IN CALCULATION 2004-2010

TAX YEAR	CAPITALIZATION RATE
2004	9.0%
2005	8.6%
2006	8.5%
2007	8.4%
2008	8.3%
2009	7.9%
2010	7.8%

^{**} equity rate is prime plus two per cent at www.bankrate.com from Wall Street
Journal survey

Exhibit D - Average Crop Yields by Year in Ohio 2008 Ohio Department of Agriculture Annual Report and Statistics Table 5 - Annual Summary: Crop Production and Value Year Soybeans Wheat Corn **Oats** Hay 36.5 2.81 41.5 3.17 40.5 2.95 3.05 2.18 31.5 2.8 3.3 2.42 3.25 2.78 3.43 3.23 2.83 3.08 3.01 2.42 3.35 2.88 2.58 38.5 2.94 2.72 3.03 2.83 2.55 2.46 36.5 2.81 avg. 1999-2008 140.1 41.2 67.1 % change 1984 vs. 1999-2008 1.187288 1,128767 1.525000 1.074603 0.989324 increase 18.73% 12.88% 52.50% 7.46% -1.07%

SOIL:

Millgrove, Silt Loam

SLOPE:

0-2

EROSION:

Slight

DRAINAGE:

Very poorly

PROD. INDEX:

	CORN	BEANS	WHEAT
PI DAT yield/acre (1984)	144	<u>52</u>	64
% increased yield	1.187288	1.128767	1.525
adjusted yield/acre	171	59	98
X Crop Price/Unit	\$2.66	\$6.41	\$3.41
= GROSS INCOME / ACRE	\$454.86	\$378.19	\$334.18
YIELD / ACRE	171	59	98
BASE YIELD	118	36	52
= YIELD ABOVE BASE	53	23	46
X ADDED UNIT COST	\$0.83	\$0.66	\$1.14
ADDED UNIT COST / ACRE	\$43.99	\$15.18	\$52.44
BASE YIELD COST	\$286.65	\$189.10	\$170.16
= TOTAL NON-LAND PROD. COST	\$330.64	\$204.28	\$222.60
NET RETURN / ACRE	\$124.22	\$173.91	\$111.58
X CROPPING PATTERN	0.39	0.51	0.1
= ROTATIONAL NET RETURN / ACRE	\$48.45	\$88.69	\$11.16
TOTAL ROTATIONAL NET RETURN	\$148.30		
BASE CAP RATE	0.078		
CAUV LAND VALUE	\$1,901.26	SAY	\$1,900

SOIL:

Millgrove, Silt Loam

SLOPE:

0-2

EROSION:

Slight

DRAINAGE:

Very poorly

PROD. INDEX:

		CORN	<u>B</u>	<u>EANS</u>	1	<u>WHEAT</u>	į	YAH
Current PI DAT yield		144		52		64		6
% increased yield	1.	1381356	1.	108219		1.45	1.0	26336
YIELD / ACRE		164		58		93		6.2
X PRICE / UNIT		\$1.96		\$4.89		\$2.64		76.66
= GROSS INCOME / ACRE		\$321.44	\$.	283.62		\$245.52		75.29
YIELD / ACRE		164		58		93		6.2
BASE YIELD		100		35		50		2
= YIELD ABOVE BASE		64		23		43		_ 4.2
X ADDED UNIT COST		\$0.91		\$0.49		\$0.81		23.98
ADDED UNIT COST / ACRE		\$58.24		\$11.27		\$34.83		00.72
BASE YIELD COST		\$235.70	\$	168.14		\$153.67	-	34.50
= TOTAL NON-LAND PROD. COST		\$293.94	\$	179.41		\$188.50		35.22
NET RETURN / ACRE		\$27.50	\$	104.21		\$57.02	\$2	40.07
X CROPPING PATTERN		0.35		0.45		0.15		0.05
= ROTATIONAL NET RETURN / ACRE	\$	9.63	\$	46.89	\$	8.55	\$	12.00
TOTAL ROTATIONAL NET RETURN	\$	77.07						
BASE CAP RATE		0.084						
X MANAGEMENT FACTOR		0.95						
= ADJUSTED CAPITALIZATION RATE		0.0798						
CAUV LAND VALUE	\$	965.79		SAY	\$	970.00		

SOIL:

Miami Silt Loam

SLOPE:

2-6

EROSION:

Slight

DRAINAGE:

Well

PROD. INDEX:

	CORN	BEANS	WHEAT
PI DAT yield/acre (1984)	108	38	50
% increased yield	1.187288	1.128767	1.525
adjusted yield/acre	128	43	76
X Crop Price/Unit	\$2.66	\$6.41	\$3.41
= GROSS INCOME / ACRE	\$340.48	\$275.63	\$259.16
YIELD / ACRE	128	43	76
BASE YIELD	118	36	52
= YIELD ABOVE BASE	10	7	24
X ADDED UNIT COST	\$0.83	\$0.66	\$1.14
ADDED UNIT COST / ACRE	\$8.30	\$4.62	\$27.36
BASE YIELD COST	\$286.65	\$189.10	\$170.16
= TOTAL NON-LAND PROD. COST	\$294.95	\$193.72	\$197.52
NET RETURN / ACRE	\$45.53	\$81.91	\$61.64
X CROPPING PATTERN	0.39	0.51	0.1
= ROTATIONAL NET RETURN / ACRE	\$17.76	\$41.77	\$6.16
TOTAL ROTATIONAL NET RETURN	\$65.69		
BASE CAP RATE	0.078		
CAUV LAND VALUE	\$842.24	SAY	\$840

SOIL:

Miami, Silt Loam

SLOPE:

2-6

EROSION:

Slight

DRAINAGE:

Well

PROD. INDEX:

	CORN	BEANS	WHEAT	HAY
PI DAT yield/acre	108	38	50	4.6
% increased yield	1.138136	1.108219	1.450000	1.026336
adjusted yield/acre	123	42	73	4.7
X PRICE / UNIT	\$1.96	\$4.89	\$2.64	\$76.66
= GROSS INCOME / ACRE	\$241.08	\$205.38	\$192.72	\$360.30
YIELD / ACRE	123	42	73	4.7
BASE YIELD	100	35	50	2
= YIELD ABOVE BASE	23	7	23	2.7
X ADDED UNIT COST	\$0.91	\$0.49	\$0.81	\$23.98
ADDED UNIT COST / ACRE	\$20.93	\$3.43	\$18.63	\$64.75
BASE YIELD COST	\$235.70	\$168.14	\$153.67	\$134.50
= TOTAL NON-LAND PROD. COST	\$256.63	\$171.57	\$172.30	\$199.25
NET RETURN / ACRE	(\$15.55)	\$33.81	\$20.42	\$161.05
X CROPPING PATTERN	0.35	0.37	0.15	0.13
= ROTATIONAL NET RETURN / ACRE	(\$5.44)	\$12.51	\$3.06	\$20.94
TOTAL ROTATIONAL NET RETURN	\$31.07			
BASE CAP RATE	0.084			
X MANAGEMENT FACTOR	1			
= ADJUSTED CAPITALIZATION RATE	0.084			
CAUV LAND VALUE	\$369.88	SAY	\$370.00	

CAUV Summary Values

05/01/2010 TY 2010 - Final

productivity index	no. of units	net Iow	return/acre high	e avg.	cropia low	and value/a high	cre avg.
0-49	601	0	12	0	200	200	200
50-59	749	0	41	6	200	530	214
60-69	1,119	0	97	33	200	1,250	436
70-79	798	29	108	65	380	1,380	845
80-89	206	68	130	99	870	1,670	1,278
90-99	35	115	151	126	1,470	1,880	1,601
100+	6	148	148	148	1,900	1,900	1,900
all regions	3,514	\$0	\$151	\$34	\$200	\$1,900	\$505

TY 2007 Final (3/15/07)

productivity index	no. of units	low	net return/ac high	re avg.	cropla low	nd value/a high	cre avg.
0-49	608	0	46	10	100	100	100
50-59	752	0	87	21	100	100	100
60-69	1,103	0	98	12	100	270	123
70-79	805	0	47	24	100	530	283
80-89	200	10	62	41	130	770	521
90-99	36	48	77	59	600	970	747
100+	6	77	77	77	970	970	970
all regions	3,510	\$0	\$98	\$19	\$100	\$970	\$181

CAUV Summary Values

05/07/2010 TY 2010 - Final

productivity index	no. of units	net Iow	return/acre high	e avg.	cropi low	and value/ad high	ere avg.
0-49	601	0	12	0	200	200	200
50-59	749	0	41	6	200	530	214
60-69	1,119	. 0	97	33	200	1,250	436
70-79	798	29	108	65	380	1,380	845
80-89	206	68	130	99	870	1,670	1,278
90-99	35	115	151	126	1,470	1,880	1,601
100+	6	148	148	148	1,900	1,900	1,900
all regions	3,514	\$0	\$151	\$34	\$200	\$1,900	\$505

TY 2009 Final

productivity index	no. of units	net i	eturn/acre high	avg.	cropia low	and value/ac high	ere avg.
0-49	600	0	78	33	170	200	176
50-59	749	0	98	53	170	330	200
60-69	1,117	0	93	42	180	930	435
70-79	798	19	89	60	240	1,100	746
80-89	206	57	109	84	720	1,390	1,059
90-99	35	97	127	108	1,230	1,610	1,368
100+	6	128	128	128	1,620	1,620	1,620
all regions	3,511	\$0	\$128	\$50	\$170	\$1,620	\$459

Average CAUV Values By Year

	:)				•									
Productivity Index 199	VITY 1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
0-49	100	100	100	100	100	100	100	100	100	100	100	108	100	100	176	200
50-59	101	100	100	111	114	107	104	102	101	114	106	134	100	100	200	214
69-09	150	114	163	230	233	200	181	125	113	104	101	125	123	188	435	436
70-79	320	257	373	448	452	417	394	285	244	157	124	241	283	431	746	845
80-89	539	487	632	694	669	999	640	516	467	342	293	465	521	708	1059	1278
66-06	740	689	850	894	806	869	842	713	663	533	492	675	747	973	1368	1601
100+	870	820	066	1040	1060	1030	1000	870	820	069	650	880	970	1200	1620	1900
Totals 189	189	160	209	258	262	242	231	180	163	135	123	177	181	249	459	505
Soils	3050	3050	3050 3083	3246	3281	3371	3279	3307	3313	3313	3358	3482	3510	3511	3511	3514

Average CAUV Values By Reappraisal/UpdateYear

Productivity	ivity	000		000	1	9
HIGEX	Cee I	088	1,007	2004	7007	2010
0-49	100	100	100	100	100	200
50-59	101	1	104	114	100	214
69-09	150	230	181	104	123	436
20-79	320	448	394	157	283	845
80-89	539	694	640	342	521	1278
66-06	740	894	842	533	747	1601
100+	870	1040	1000	069	970	1900
Totals	189	258	231	135	181	202
Soils	3050	3246	3279	3313	3510	3514

Comparis	on of Inp	uts, Tax	Years 2	2007-201	0	
Crop Prices					Differ	ence
	2007	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2007-10</u>	<u>2009-10</u>
Corn	\$1.96	\$2.02	\$2.29	\$2.66	\$0.70	\$0.37
Soybeans	\$4.89	\$5.19	\$5.60	\$6.41	\$1.52	\$0.81
Wheat	\$2.64	\$2.89	\$3.05	\$3.41	\$0.77	\$0.36
Non-land Production Costs						
Base Cost						***************************************
Corn	\$235.70	\$242.39	\$264.12	\$286.65	\$50.95	\$22.53
Soybeans	\$168.14	\$174.44	\$175.21	\$189.10	\$20.96	\$13.89
Wheat	\$153.67	\$156.68	\$159.01	\$170.16	\$16.49	\$11.15
Additional Unit Cost						
Corn	\$0.91	\$0.90	\$0.72	\$0.83	(\$0.08)	\$0.11
Soybeans	\$0.49	\$0.50	\$0.57	\$0.66	\$0.17	\$0.09
Wheat	\$0.81	\$0.84	\$0.86	\$1.14	\$0.33	\$0.28
Capitalization Rate						
Mortgage/Equity Ratio	60/40	60/40	60/40	60/40		
Years	15	15	15	15		
Interest Rate	7.49	7.29	7.06	7.24		
Equity Rate	8.35	8.15	7.65	7.80		
Tax Additur	1.4	1.4	1.4	1.4		
Capitalization Rate	8.4	8.3	7.9	7.8	(0.60)	(0.10)