July 25, 2024 **FINAL VALUES - 2024** 

# 2024 CURRENT AGRICULTURAL USE VALUE OF LAND TABLES EXPLANATION OF THE CALCULATION OF VALUES FOR TAX YEAR 2024

## **Formula Changes**

Am. Sub. H.B. 49, of the 132<sup>nd</sup> General Assembly, prescribes the factors that must be considered in computing the Current Agricultural Use Value (CAUV). The lower values were phased-in using a two-step process over each county's next two revaluations, beginning with the counties undergoing reappraisal or update in 2017. That phase-in was completed with tax year 2022, and the values for 2024 continue to reflect the full impact of the changes to R.C. 5715.01.

## **Explanation of the Calculation**

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 of 25 percent or less. The information used for a capitalized net income approach is as follows:

YIELD INFORMATION
CROPPING PATTERN
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 USDA. For 2024, yield data from calendar years 2014-2023 were averaged and divided by the 1984 yield for each crop (Exhibit A). This factor is applied to the 1984 crop yield of record for each soil. The table below shows the average yields used to develop the factor for each of the crops.

		TY 2021	TY 2022	TY 2023	TY 2024
Crop	1984 Base	2011-2020	2012-2021	2013-2022	2014-2023
Corn	118.0 bu	163.4 bu	167.4 bu	174.1 bu	176.5 bu
Soybeans	36.5 bu	50.8 bu	51.8 bu	52.9 bu	53.7 bu
Wheat	44.0 bu	69.2 bu	72.0 bu	73.1 bu	75.1 bu

#### 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: 37.4% corn, 56.8% beans, and 5.8% wheat. This rotation is based on data from 2019-2023 and closely reflects current agricultural production in Ohio. The acres harvested in each year are shown in Exhibit B.

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; in 2024, a minimum value of \$350 is used for these soils. In 2012, the minimum value was increased from \$300 to \$350 per acre.
- 2.) A pattern of 50% corn and 50% soybeans is used for organic soils.

#### C. CROP PRICES

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 2017 through 2023. The annual production and price per unit for each of these crops for the period are shown in Exhibit C.

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 2021	TY 2022	TY 2023	TY 2024
Crop	Unit	2014-2020	2015-2021	2016-2022	2017-2023
Corn	Bushel	\$3.59	\$3.77	\$4.21	\$4.40
Soybeans	Bushel	\$9.10	\$9.32	\$10.22	\$10.81
Wheat	Bushel	\$4.76	\$4.75	\$5.20	\$5.52

#### D. NON-LAND PRODUCTION COSTS

Data on crop production costs are used to estimate average non-land production costs. The data are taken from the Ohio Crop Production Budgets prepared by The Ohio State University College of Food, Agricultural and Environmental Sciences for 2018-2024, 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 D.

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 (Exhibits D-1 through Exhibit D-3). The five-year average non-land production costs for tax year 2024 are summarized in the following table and compared to the costs used for tax years 2021 and 2023:

NON-LAND PRODUCTION COSTS											
Crop Base Cost	Base Yld/2024	TY 2021	TY 2023	TY 2024							
Corn	142 bu	\$491.35	\$509.17	\$530.29							
Soybeans	43 bu	\$322.85	\$323.41	\$333.03							
Wheat	59 bu	\$284.91	\$264.36	\$272.17							
Additional Cost p	er Unit										
Corn	1 bu	\$1.34	\$1.31	\$1.28							
Soybeans	1 bu	\$0.89	\$1.03	\$1.13							
Wheat	1 bu	\$1.29	\$1.37	\$1.45							

#### E. CAPITALIZATION RATE

Five-year averaging is used to derive the Farm Credit Service interest rate of 6.20% (Exhibit E). Interest rate data is collected for seven years with the highest and lowest rates eliminated, and the average calculated using the remaining five years' data. The interest rate of 7.75% for the 20 percent equity portion is based on the 25-year average of the "total rate of return on farm equity" published by USDA (1998-2022, inclusive). (R.C. 5715.01)

The capitalization rate for typical Ohio farmland is computed by the mortgage-equity method. The statewide average effective tax rate after application of the reduction factors levied on agricultural property is 44.58 mills for tax year 2023 (R.C. 319.301). The 8.6 percent non-business credit rollback authorized by R.C. 319.302 reduces this rate further to 40.75 mills. As a percent of market value, the effective tax rate to be used in this year's capitalization formula is 1.4%, (0.35 x 40.75)/1000.

80% loan x annual debt service of 0.079705\* 0.0638 20% equity x equity yield rate of 0.0775 + 0.0155 Subtotal 0.0793

Less: equity buildup for 25 years

% loan x 100% mortgage paid off x sinking fund factor\*\*

(0.80) (1.00) (0.014182) (0.0113)

Subtotal 0.0679

Tax Additur Adjustment + 0.014261 Capitalization Rate 0.0820 or **8.2%** 

The capitalization rate, including R.E. taxes, is **8.2%** for typical Ohio farmland.

#### F. CROPLAND VALUES

The current agricultural use cropland value equals the rotational net return per acre of the soil map unit divided by the capitalization rate. However, the minimum value for cropland is \$350 per acre for soils with 25 percent slope or less regardless of this calculated amount. In tax year 2012, the minimum value was increased from \$300 to \$350 per acre.

#### 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 used in the formula are as follows:
  - a. Clearing \$4,476\* per acre for all soils
  - b. Drainage
    - a.) Excessively drained, well drained, moderately well drained,
    - (E, W, MW) **No Conversion Cost**

<sup>\*</sup>Mortgage constant assumes 25-year loan, 6.20% interest rate.

<sup>\*\*</sup>Sinking fund factor assumes 25-year term, 7.75% equity rate.

- b.) Somewhat poorly drained, poorly drained, very poorly drained, saturated (SWP, P, VP) **\$1,030\*\* for Tile Drainage**
- c.) For the following soil series, a \$520\*\* adjustment for surface drainage was used: Blanchester, Bono, Clermont, Condit, Conneaut, Darien, Fries, Ginat, Ilion, Latty, Lorain, McGuffey, Mill, Miner, Montgomery, Muskego, Paulding, Peoga, Piopolis, Purdy, Roselms, Sheffield, Toledo, Trumbull, Wabash, Wabasha, Warners, and Wayland.
- 2. The minimum value for woodland with slopes of 25% or less is \$230.
- \* The clearing input has been updated from \$1,000 to \$,4,476. The Ohio Forestry Association collected data from its members and provided this information to the Agricultural Advisory Committee and the Department of Taxation for review in 2017. The information provided shows the total cost to clear an average of ten jobs was \$3,659.65. The total cost was then updated using the GDP deflator. From 2017 to 2023, the GDP deflator increased by approximately 22.3%.
- \*\* Due to the low number of survey responses for this expense category The Ohio State University did not publish an updated cost for this item. After consultation with the Department of Agricultural, Environmental, and Development Economics it was determined that the best available source for this cost was the last published number, which was from Ohio Farm Custom Rates in 2020, and it has been retained in the 2024 calculation. Additional consultation with the Agricultural Advisory Committee determined that this number should be updated to reflect inflation. The GDP deflator increased by approximately 16% from 2020 to 2023.

#### 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.





#### I. MINIMUM VALUES

Slopes of 25% or less:

Cropland & pasture \$350 Woodland \$230

Slopes greater than 25%:

Woodland & pasture \$230

#### J. CONSERVATION LAND

Farmland in a federal land retirement or conservation program is eligible for CAUV. Additionally, land used for conservation practices is eligible if it comprises 25% or less of the landowner's total CAUV land. As defined by R.C. 5713.30(E), conservation practices are farm management practices used to abate soil erosion as required in the management of the farming operation, including the installation, construction, development, planting, or use of grass waterways, terraces, diversions, filter strips, field borders, windbreaks, riparian buffers, wetlands, ponds, and cover crops for those purposes. The lowest CAUV value of all soil types is applied to farmland used for conservation practices or enrolled in a federal land retirement or conservation program under an agreement with an agency of the federal government. The land must be enrolled as of the first day of January of the applicable year as detailed on the initial or renewal application.

**Exhibit A - Average Crop Yields by Year in Ohio** 

<u>Year</u>	<u>Corn</u>	<u>Soybeans</u>	<u>Wheat</u>
1984	118	36.5	44
1985	127	41.5	62
1986	128	40.5	46
1987	120	37	58
1988	85	27	50
1989	117	31.5	51
1990	121	39	60
1991	96	36	49
1992	143	40	53
1993	110	38	52
1994	139	43.5	58
1995	121	38	61
1996 1997	111 134	35 44	39 63
1998	134	44	63 64
1999	126	36	70
2000	147	42	72
2001	138	41	67
2002	89	32	62
2003	156	38.5	68
2004	158	47	62
2005	143	45	71
2006	159	47	68
2007	150	47	61
2008	131	36	67
2009	171	49	71
2010	160	48	61
2011	153	48	57
2012	120	45	68
2013	174	49.5	70
2014	176	52.5	74
2015	153	50	67
2016	159	54.5	80
2017	177	49.5	74
2018	187	56	75
2019	164	49	56
2019	171	55	
			71
2021	193	57	85
2022	187	55.5	79
2023	198	58	90
Average 2014-2023	176.5	53.7	75.1
1984 Base	118	36.5	44
Average/1984 base	1.495763	1.471233	1.706818
% Increase	49.58%	47.12%	70.68%

Source: United States Department of Agriculture, National Agricultural Statistics Service, Crop Production 2023 Summary, January 2024. Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production - States and United States: 2021-2023; Winter Wheat Area Planted and Harvested, Yield, and Production - States and United States: 2021-2023; Soybeans for Beans Area Planted and Harvested, Yield, and Production - States and United States: 2021-2023. 1/17/2024

Exhibit B - Acres Harvested, 2019-2023
TY 2024 Crop Rotation

		% of		% of		% of	& Wheat
<u>Year</u>	<u>Corn</u>	<u>Total</u>	<u>Soybeans</u>	<u>Total</u>	<u>Wheat</u>	<u>Total</u>	<u>Totals</u>
2019	2,570,000	35.6%	4,270,000	59.1%	385,000	5.3%	7,225,000
2020	3,300,000	37.9%	4,920,000	56.5%	490,000	5.6%	8,710,000
2021	3,340,000	38.2%	4,880,000	55.9%	515,000	5.9%	8,735,000
2022	3,180,000	36.4%	5,080,000	58.2%	465,000	5.3%	8,725,000
2023	3,400,000	39.0%	4,730,000	54.2%	590,000	6.8%	8,720,000
Five Year							
Average	3,158,000	37.4%	4,776,000	56.8%	489,000	5.8%	8,423,000

Source: United States Department of Agriculture, National Agricultural Statistics Service, Crop Production 2023 Summary, January 2024. Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production - States and United States: 2021-2023; Winter Wheat Area Planted and Harvested, Yield, and Production - States and United States: 2021-2023; Soybeans for Beans Area Planted and Harvested, Yield, and Production - States and United States: 2021-2023. 1/17/2024.

#### **Exhibit C, FIVE YEAR AVERAGE CROP PRICES, TAX YEAR 2024**

CORN	<u>Year</u>	Production (1,000 bu)	ļ	<u>Price</u>	Value (1,000 dollars)
	2017	<del>557,550</del>	<del>\$</del>	3.61	<del>2,012,756</del>
	2018	617,100	\$	3.74	2,307,954
	2019	421,480	\$	3.91	1,647,987
	2020	564,300	\$	4.69	2,646,567
	2021	644,620	\$	5.92	3,816,150
	2022	<del>594,660</del>	<del>\$</del>	6.28	<del>3,734,465</del>
	2023	673,200	\$	4.60	3,096,720
Totals		2,920,700			13,515,378
Weighted Avg. Price			\$	4.63	
After Management Allowance of	5%		\$	4.40	
SOYBEANS	<u>Year</u>	Production (1,000 bu)	ļ	<u>Price</u>	Value (1,000 dollars)
	2017	251,955	\$	9.62	2,423,807
	2018	<del>281,120</del>	\$	8.69	<del>2,442,933</del>
	2019	209,230	\$	9.04	1,891,439
	2020	270,600	\$	11.30	3,057,780
	2021	278,160	\$	13.60	3,782,976
	2022	<del>281,940</del>	\$	14.40	<del>4,059,936</del>
	2023	274,340	\$	12.60	3,456,684
Totals		1,284,285			14,612,686
Weighted Avg. Price			\$	11.38	
After Management Allowance of	5%		\$	10.81	
(Winter) WHEAT	<u>Year</u>	Production (1,000 bu)	<u> </u>	<u>Price</u>	Value (1,000 dollars)
	2017	<del>34,040</del>	<del>\$</del>	4.90	<del>166,796</del>
	2018	33,750	\$	5.08	171,450
	2019	21,560	\$	5.22	112,543
	2020	34,790	\$	5.27	183,343
	2021	43,775	\$	6.49	284,100
	2022	<del>36,735</del>	\$	7.85	<del>288,370</del>
	2023	53,100	\$	6.30	334,530
Totals		186,975			1,085,966
Weighted Avg. Price			\$	5.81	

Source: United States Department of Agriculture, National Agricultural Statistics Service, Crop Production 2023 Summary, January 2024. Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production - States and United States: 2021-2023; Winter Wheat Area Planted and Harvested, Yield, and Production - States and United States: 2021-2023; Soybeans for Beans Area Planted and Harvested, Yield, and Production - States and United States: 2021-2023. United States Department of Agriculture, National Agricultural Statistics Service, Crop Values 2023 Summary, February 2024. Corn for Grain Price per Bushel and Value of Production- States and United States: 2021-2023; Winter Wheat Price per Bushel and Value of Production- States and United States: 2021-2023; Soybeans for Beans Price Per Bushel and Value of Production - States and United States: 2021-2023. 2/27/2024.

5.52

After Management Allowance of 5%

Exhibit D, Production Costs, Tax Year 2024

Determination of Five Year Average Costs for the Projected Crop Budgets

ITEM VARIABLE COSTS		<u>Units</u>	2018	<u>2019</u>	2020	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	MAXIMUM	MINIMUM	5 Year Avg.
Seed	CORN	1000k	\$3.50	\$3.38	<del>\$3.25</del>	\$3.25	\$3.44	\$3.60	<del>\$3.69</del>	\$3.69	\$3.25	\$3.43
	SOYBEANS	1000s	\$0.43	\$0.43	<del>\$0.39</del>	\$0.39	\$0.41	\$0.43	<del>\$0.44</del>	\$0.44	\$0.39	\$0.42
	WHEAT	1000s	<del>\$0.03</del>	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	<del>\$0.04</del>	\$0.04	\$0.03	\$0.03
Fertilizer	N Corn		\$0.31	\$0.37	<del>\$0.30</del>	\$0.38	<del>\$0.91</del>	\$0.55	\$0.48	\$0.91	\$0.30	\$0.42
	N Wheat		<del>\$0.41</del>	\$0.45	\$0.43	\$0.48	<del>\$1.07</del>	\$0.71	\$0.63	\$1.07	\$0.41	\$0.54
	P2O5, Corn/Soybean	s	\$0.47	\$0.50	<del>\$0.38</del>	\$0.59	<del>\$0.91</del>	\$0.77	\$0.76	\$0.91	\$0.38	\$0.62
	P2O5 Wheat		\$0.44	\$0.52	<del>\$0.39</del>	\$0.43	\$0.83	<del>\$0.96</del>	\$0.77	\$0.96	\$0.39	\$0.60
	K2O, Corn/Soybeans	<b>i</b>	<del>\$0.28</del>	\$0.32	\$0.28	\$0.32	<del>\$0.69</del>	\$0.48	\$0.39	\$0.69	\$0.28	\$0.36
	K2O Wheat		<del>\$0.26</del>	\$0.30	\$0.28	\$0.26	\$0.60	<del>\$0.73</del>	\$0.40	\$0.73	\$0.26	\$0.37
	LIME		<del>\$25.00</del>	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00	<del>\$25.00</del>	\$25.00	\$25.00	\$25.00
Chemicals	CORN		\$43.93	\$46.22	\$46.22	\$46.22	<del>\$51.03</del>	\$50.00	<del>\$41.75</del>	\$51.03	\$41.75	\$46.52
	SOYBEANS		<del>\$39.30</del>	\$41.99	\$41.99	\$47.76	<del>\$78.07</del>	\$55.40	\$45.80	\$78.07	\$39.30	\$46.59
	WHEAT		\$13.25	\$14.65	\$14.65	<del>\$14.65</del>	\$13.18	\$13.18	<del>\$10.50</del>	\$14.65	\$10.50	\$13.78
Fuel, Oil, Grease	CORN	150.6	\$13.64	<del>\$13.56</del>	\$13.75	\$13.75	\$26.13	<del>\$26.35</del>	\$23.05	\$26.35	\$13.56	\$18.06
		188.3	\$13.64	<del>\$13.56</del>	\$13.75	\$13.75	\$26.13	<del>\$26.35</del>	\$23.05	\$26.35	\$13.56	\$18.06
		226.0	\$13.64	<del>\$13.56</del>	\$13.75	\$13.75	\$26.13	<del>\$26.35</del>	\$23.05	\$26.35	\$13.56	\$18.06
	SOYBEANS	45.7	\$12.57	<del>\$11.58</del>	\$11.58	\$11.58	<del>\$22.00</del>	\$20.84	\$19.45	\$22.00	\$11.58	\$15.20
		57.1	\$12.57	<del>\$11.58</del>	\$11.58	\$11.58	<del>\$22.00</del>	\$20.84	\$19.45	\$22.00	\$11.58	\$15.20
		68.5	\$12.57	<del>\$11.58</del>	\$11.58	\$11.58	<del>\$22.00</del>	\$20.84	\$19.45	\$22.00	\$11.58	\$15.20

Exhibit D, Production Costs, Tax Year 2024

Determination of Five Year Average Costs for the Projected Crop Budgets

ITEM VARIABLE COSTS		<u>Units</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>MAXIMUM</u>	MINIMUM	5 Year Avg.
	WHEAT	63.6	\$7.62	\$12.05	\$8.33	<del>\$7.50</del>	<del>\$15.83</del>	\$15.00	\$13.58	\$15.83	\$7.50	\$11.32
		79.5	\$7.62	\$12.05	\$8.33	<del>\$7.50</del>	<del>\$15.83</del>	\$15.00	\$13.58	\$15.83	\$7.50	\$11.32
		95.4	\$7.62	\$12.05	\$8.33	<del>\$7.50</del>	<del>\$15.83</del>	\$15.00	\$13.58	\$15.83	\$7.50	\$11.32
Repairs	CORN	150.6	\$ <del>19.91</del>	\$20.48	\$25.54	\$28.12	\$28.12	\$31.32	<del>\$34.11</del>	\$34.11	\$19.91	\$26.72
		188.3	<del>\$19.91</del>	\$20.48	\$25.54	\$28.12	\$28.12	\$31.32	<del>\$34.11</del>	\$34.11	\$19.91	\$26.72
		226.0	<del>\$19.91</del>	\$20.48	\$25.54	\$28.12	\$28.12	\$31.32	<del>\$34.11</del>	\$34.11	\$19.91	\$26.72
	SOYBEANS	45.7	<del>\$17.22</del>	\$17.57	\$21.60	\$23.98	\$23.98	\$26.14	<del>\$29.33</del>	\$29.33	\$17.22	\$22.65
		57.1	<del>\$17.22</del>	\$17.57	\$21.60	\$23.98	\$23.98	\$26.14	<del>\$29.33</del>	\$29.33	\$17.22	\$22.65
		68.5	<del>\$17.22</del>	\$17.57	\$21.60	\$23.98	\$23.98	\$26.14	<del>\$29.33</del>	\$29.33	\$17.22	\$22.65
	WHEAT	63.6	\$16.33	\$16.72	<del>\$13.81</del>	\$15.47	\$15.47	\$18.19	<del>\$22.11</del>	\$22.11	\$13.81	\$16.44
		79.5	\$16.33	\$16.72	<del>\$13.81</del>	\$15.47	\$15.47	\$18.19	<del>\$22.11</del>	\$22.11	\$13.81	\$16.44
		95.4	\$16.33	\$16.72	<del>\$13.81</del>	\$15.47	\$15.47	\$18.19	<del>\$22.11</del>	\$22.11	\$13.81	\$16.44
Crop Insurance	CORN	150.6	\$13.00	<del>\$12.00</del>	\$14.70	\$19.00	<del>\$27.00</del>	\$23.00	\$17.50	\$27.00	\$12.00	\$17.44
		188.3	<del>\$14.00</del>	\$14.00	\$16.70	\$21.00	\$30.00	\$30.00	\$20.60	\$30.00	\$14.00	\$20.46
		226.0	<del>\$14.50</del>	\$15.00	\$18.70	\$26.00	<del>\$40.00</del>	\$35.00	\$22.00	\$40.00	\$14.50	\$23.34
	SOYBEANS	45.7	\$9.50	<del>\$7.00</del>	\$8.60	\$16.00	<del>\$20.00</del>	\$16.00	\$15.60	\$20.00	\$7.00	\$13.14
		57.1	\$10.00	<del>\$7.50</del>	\$10.60	\$17.00	<del>\$24.00</del>	\$19.00	\$16.00	\$24.00	\$7.50	\$14.52
		68.5	\$10.50	\$8.00	\$12.60	\$20.00	<del>\$29.00</del>	\$22.00	\$18.50	\$29.00	\$8.00	\$16.72
	WHEAT	63.6	<del>\$6.00</del>	\$6.00	\$6.00	\$9.00	<del>\$12.00</del>	\$10.00	\$8.50	\$12.00	\$6.00	\$7.90
		79.5	<del>\$6.50</del>	\$6.50	\$6.50	\$10.00	<del>\$15.00</del>	\$11.50	\$10.00	\$15.00	\$6.50	\$8.90
		95.4	<del>\$7.00</del>	\$7.00	\$7.00	\$11.00	<del>\$18.00</del>	\$13.00	\$12.00	\$18.00	\$7.00	\$10.00

Exhibit D, Production Costs, Tax Year 2024

Determination of Five Year Average Costs for the Projected Crop Budgets

ITEM VARIABLE COSTS		<u>Units</u>	2018	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	2023	<u>2024</u>	MAXIMUM	MINIMUM	5 Year Avg.
Variable Miscellaneous	CORN	150.6	<del>\$4.80</del>	\$5.10	\$5.10	\$5.50	\$5.69	<del>\$5.81</del>	\$5.79	\$5.81	\$4.80	\$5.44
		188.3	<del>\$4.80</del>	\$5.10	\$5.10	\$5.50	\$5.69	<del>\$5.81</del>	\$5.79	\$5.81	\$4.80	\$5.44
		226.0	<del>\$4.80</del>	\$5.10	\$5.10	\$5.50	\$5.69	<del>\$5.81</del>	\$5.79	\$5.81	\$4.80	\$5.44
	SOYBEANS	45.7	<del>\$3.25</del>	\$3.40	\$3.40	\$3.75	\$3.87	\$4.10	<del>\$4.26</del>	\$4.26	\$3.25	\$3.70
		57.1	<del>\$3.25</del>	\$3.40	\$3.40	\$3.75	\$3.87	\$4.10	<del>\$4.26</del>	\$4.26	\$3.25	\$3.70
		68.5	<del>\$3.25</del>	\$3.40	\$3.40	\$3.75	\$3.87	\$4.10	<del>\$4.26</del>	\$4.26	\$3.25	\$3.70
	WHEAT	63.6	<del>\$3.00</del>	\$3.00	\$3.00	\$3.50	\$4.46	\$5.58	<del>\$5.67</del>	\$5.67	\$3.00	\$3.91
		79.5	<del>\$3.00</del>	\$3.00	\$3.00	\$3.50	\$4.46	\$5.58	<del>\$5.67</del>	\$5.67	\$3.00	\$3.91
		95.4	<del>\$3.00</del>	\$3.00	\$3.00	\$3.50	\$4.46	\$5.58	<del>\$5.67</del>	\$5.67	\$3.00	\$3.91
Drying: Fuel & Electric	CORN		<del>\$0.06</del>	<del>\$0.04</del>	\$0.04	\$0.04	\$0.05	\$0.04	\$0.04	\$0.06	\$0.04	\$0.04
Hauling Farm to Market	CORN	188.3	\$0.18	\$0.17	\$0.17	<del>\$0.16</del>	\$0.19	<del>\$0.29</del>	\$0.29	\$0.29	\$0.16	\$0.20
	SOYBEANS	57.1	\$0.18	\$0.17	\$0.17	<del>\$0.16</del>	\$0.19	<del>\$0.29</del>	\$0.29	\$0.29	\$0.16	\$0.20
	WHEAT	79.5	\$0.18	\$0.17	\$0.17	<del>\$0.16</del>	\$0.19	<del>\$0.29</del>	\$0.29	\$0.29	\$0.16	\$0.20
Interest - variable costs			5.00%	5.50%	5.00%	4.00%	5.00%	7.50%	<del>8.25%</del>	8.25%	4.00%	5.60%
FIXED COSTS												
Labor Charge	CORN		<del>\$37.50</del>	\$37.50	\$37.50	\$38.25	\$40.50	\$42.75	<del>\$43.88</del>	\$43.88	\$37.50	\$39.30
	SOYBEANS		<del>\$22.50</del>	\$22.50	\$22.50	<del>\$18.70</del>	\$19.80	\$20.90	\$21.45	\$22.50	\$18.70	\$21.43
	WHEAT		<del>\$22.50</del>	\$22.50	\$22.50	\$22.95	\$24.30	\$25.65	<del>\$26.33</del>	\$26.33	\$22.50	\$23.58
Machinery & Equipment	CORN		<del>\$84.61</del>	\$86.07	\$95.22	\$99.87	\$99.87	\$110.12	<del>\$122.37</del>	\$122.37	\$84.61	\$98.23
	SOYBEANS		<del>\$56.43</del>	\$57.90	\$65.50	\$69.16	\$62.16	\$75.87	<del>\$88.28</del>	\$88.28	\$56.43	\$66.12
	WHEAT		\$64.49	\$65.28	<del>\$47.29</del>	\$50.57	\$50.57	\$57.86	<del>\$71.35</del>	\$71.35	\$47.29	\$57.75

Exhibit D, Production Costs, Tax Year 2024

Determination of Five Year Average Costs for the Projected Crop Budgets

VARIABLE COSTS Units 2018 2019 2020 2021 2022 2023 2024 MAXIMUM MINIMUM 5	ear Avg.
Fixed Miscellaneous CORN 150.6 \$23.10 \$22.80 \$20.50 \$20.50 \$21.17 \$23.49 \$24.66 \$24.66 \$20.50	\$22.21
188.3 \$23.10 \$22.80 \$20.50 <del>\$20.50</del> \$21.17 \$23.49 <del>\$24.66</del> \$24.66 \$20.50	\$22.21
\$226.0 \$23.10 \$22.80 \$20.50 <del>\$20.50</del> \$21.17 \$23.49 <del>\$24.66</del> \$24.66 \$20.50	\$22.21
SOYBEANS 45.7 \$14.90 \$14.70 \$13.40 \$13.70 \$14.06 \$15.21 \$16.00 \$16.00 \$13.40	\$14.51
57.1 \$14.90 \$14.70 <del>\$13.40</del> \$13.70 \$14.06 \$15.21 <del>\$16.00</del> \$16.00 \$13.40	\$14.51
68.5 \$14.90 \$14.70 <del>\$13.40</del> \$13.70 \$14.06 \$15.21 <del>\$16.00</del> \$16.00 \$13.40	\$14.51
<b>WHEAT</b> 63.6 \$12.75 \$12.10 \$ <del>10.70</del> \$12.70 \$12.99 \$15.19 \$ <del>15.30</del> \$15.30 \$10.70	\$13.15
<sup>79.5</sup> \$12.75 \$12.10 \$ <del>10.70</del> \$12.70 \$12.99 \$15.19 \$ <del>15.30</del> \$15.30 \$10.70	\$13.15
95.4 \$12.75 \$12.10 <del>\$10.70</del> \$12.70 \$12.99 \$15.19 <del>\$15.30</del> \$15.30 \$10.70	\$13.15

Source: The Ohio State University; College of Food, Agricultural, and Environmental Sciences; Crop production budgets. Updated with 2024 data as of 5/5/2024 for corn, 5/8/2024 for soybeans and 10/31/2023 for wheat. https://farmoffice.osu.edu/farm-management/enterprise-budgets#2024

#### **2024 CORN BUDGET**

Conservation Tillage

VARIABLE COSTS	In	puts - 5 Yr. Olympic Av	rerage		5 YR.	Costs pe	er Acre
			BASE	@ ADD.	AVG.	BASE	@ ADD.
	UN	NITS	142		COST	142	
			BUSHEL	BUSHEL	Exhibit D	BUSHEL	BUSHEL
SEED	к	Gernels (1000s)	28	0.11	\$3.43	\$96.04	\$0.38
FERTILIZER							
	N	LB.	156.55	0.80	\$0.42	\$65.75	\$0.34
	P205	LB.	49.82	0.35	\$0.62	\$30.89	\$0.22
	K2O	LB.	28.74	0.20	\$0.36	\$10.35	\$0.07
	LIME	TON	0.25	0.00	\$25.00	\$6.25	\$0.00
CHEMICALS					\$46.52	\$46.52	\$0.00
FUEL, OIL, GREASE					\$18.06	\$18.06	\$0.00
REPAIRS					\$26.72	\$26.72	\$0.00
CROP INSURANCE					\$20.46	\$20.46	\$0.00
VARIABLE MISCELLANEOUS					\$5.44	\$5.44	\$0.00
DRYING: FUEL & ELECTRIC ONLY					\$0.04	\$5.68	\$0.04
HAULING/TRUCKING	Rate	Months	(Rate/12)*M		\$0.20	\$28.40	\$0.20
INTEREST on OPER. CAP. *  TOTAL VARIABLE COSTS	5.60%	7	onths 3.3%			\$10.00 <b>\$370.55</b>	\$0.03 <b>\$1.28</b>
FIXED COSTS							
LABOR CHARGE					\$39.30	\$39.30	\$0.00
MACHINERY & EQUIPMENT CHARGE					\$98.23	\$98.23	\$0.00
MISCELLANEOUS					\$22.21	\$22.21	\$0.00
TOTAL FIXED COSTS						\$159.74	\$0.00
TOTAL COSTS						\$530.29	\$1.28

\*Interest on all variable costs except hauling and crop insurance.

Source: The Ohio State University; College of Food, Agricultural, and Environmental Sciences; Crop production budgets. Updated with 2024 data as of 5/5/2024 for corn, 5/8/2024 for soybeans and 10/31/2023 for wheat. https://farmoffice.osu.edu/farm-management/enterprise-budgets#2024 DTE 2024

#### 2024 SOYBEAN BUDGET (Preliminary)

No-Tillage Practices

					5 YR.	Costs pe	r Acre
VARIABLE COSTS		Inputs - 5 Yr. Olym			AVG.		
			BASE	@ ADD.	COST	BASE	@ ADD.
		UNITS	44		Exhibit D	44	
			BUSHEL	BUSHEL		BUSHEL	BUSHEL
SEED		Seeds (1000s)	162.0	0	\$0.42	\$67.72	\$0.00
FERTILIZER							
	N	LB.	0.00	0.00	\$0.00	\$0.00	\$0.00
	P205	LB.	35.07	0.80	\$0.62	\$21.67	\$0.49
	K20	LB.	50.84	1.14	\$0.36	\$18.20	\$0.41
	LIME	TON	0.25	0.00	\$25.00	\$6.25	\$0.00
CHEMICALS					\$46.59	\$46.59	\$0.00
FUEL, OIL, GREASE					\$15.20	\$15.20	\$0.00
REPAIRS					\$22.65	\$22.65	\$0.00
CROP INSURANCE (Middle yield)					\$14.52	\$14.52	\$0.00
VARIABLE MISCELLANEOUS					\$3.70	\$3.70	\$0.00
HAULING/TRUCKING					\$0.20	\$8.80	\$0.20
				(= , (==)+++	1		
		Rate	Months	(Rate/12)*Mo nths			
INTEREST on OPER. CAP. *		5.60%	6	2.8%		\$5.66	\$0.03
TOTAL VARIABLE COSTS						\$230.97	\$1.13
FIXED COSTS							
LABOR CHARGE					\$21.43	\$21.43	\$0.00
MACHINERY & EQUIPMENT CHARGE					\$66.12	\$66.12	\$0.00
MISCELLANEOUS TOTAL FIXED COSTS					\$14.51	\$14.51 <b>\$102.06</b>	\$0.00 <b>\$0.00</b>
TOTAL COSTS						\$333.03	\$1.13
					1		

<sup>\*</sup>Interest on all variable costs except hauling and crop insurance.

Source: The Ohio State University; College of Food, Agricultural, and Environmental Sciences; Crop production budgets. Updated with 2024 data as of 5/5/2024 for corn, 5/8/2024 for soybeans and 10/31/2023 for wheat. https://farmoffice.osu.edu/farm-management/enterprise-budgets#2024 DTE 2024

## 2024 WHEAT BUDGET

Conservation Tillage

VARIABLE COSTS					5 YR.	Costs pe	er Acre
		Inputs - 5 Yr. O			AVG.		
		UNITS	BASE 60	@ ADD.	COST Exhibit D	BASE 60	@ ADD.
		OMITS	BUSHEL	BUSHEL	EXIIIDIC	BUSHEL	BUSHEL
SEED		Seeds (1000s)	1,400	0	\$0.03	\$42.00	\$0.00
FERTILIZER	l		61.05	1.50	60.54	622.45	¢0.01
	N	LB.	61.95	1.50	\$0.54	\$33.45	\$0.81
	P205	LB.	29.86	0.50	\$0.60	\$17.86	\$0.30
	K20	LB.	14.87	0.25	\$0.37	\$5.47	\$0.09
	LIME	TON	0.25	0	\$25.00	\$6.25	\$0.00
CUEMICALC					¢12.70	¢12.70	¢0.00
CHEMICALS					\$13.78	\$13.78	\$0.00
FUEL, OIL, GREASE					\$11.32	\$11.32	\$0.00
I OLL, OIL, OKLASE					Ş11.52	711.52	Ų0.00
REPAIRS					\$16.44	\$16.44	\$0.00
					·		
CROP INSURANCE (MIDDLE YIELD)					\$8.90	\$8.90	\$0.00
VARIABLE MISCELLANEOUS					\$3.91	\$3.91	\$0.00
HAULING/TRUCKING					\$0.20	\$12.00	\$0.20
				/D-+-/12\*M-			
		Rate	Months	(Rate/12)*Mo nths			
INTEREST on OPER. CAP.*		5.60%	9	4.2%		\$6.32	\$0.05
TOTAL VARIABLE COSTS		0.0070		270		\$177.69	\$1.45
TO THE VARIABLE COSTS						<b>7177.03</b>	92.43
FIXED COSTS							
LABOR CHARGE					\$23.58	\$23.58	\$0.00
MACHINERY & EQUIPMENT CHARGE					\$57.75	\$57.75	\$0.00
MISCELLANEOUS					\$13.15	\$13.15	\$0.00
TOTAL FIXED COSTS						\$94.48	\$0.00
TOTAL COSTS						\$272.17	\$1.45

Source: The Ohio State University; College of Food, Agricultural, and Environmental Sciences; Crop production budgets. Updated with 2024 data as of 5/5/2024 for corn, 5/8/2024 for soybeans and 10/31/2023 for wheat. https://farmoffice.osu.edu/farm-management/enterprise-budgets#2024 DTE 2024

 $<sup>{}^\</sup>star \text{Interest}$  on all variable costs except hauling and crop insurance.

## **Exhibit E: INTEREST RATES - CAPITALIZATION RATE**

INTERE	ST RATE*
Year	
2018	6.04
2019	6.00
2020	4.90
2021	<del>4.27</del>
2022	6.19
2023	7.86
2024	<del>8.36</del>
Average	6.20

CALCULATION 2018-2024								
TAX YEAR CAP RATE								
2018	8.0%							
2019	8.0%							
2020	7.9%							
2021	7.8%							
2022	7.8%							
2023	8.0%							
2024	8.2%							

EQUITY RATE**	
Year	
2022	14.63
2021	13.92
2020	4.78
2019	2.59
2018	1.79
2017	4.47
2016	1.71
2015	-0.78
2014	8.08
2013	8.37
2012	17.04
2011	11.04
2010	12.46
2009	-0.71
2008	4.30
2007	4.60
2006	13.30
2005	18.18
2004	17.32
2003	8.17
2002	-0.57
2001	6.13
2000	8.74
1999	8.12
1998	6.12
Average	7.75

<sup>\*</sup> Fixed multi-flex rate for a 25-year term on a loan \$75,000 and over, Farm Credit Services.

USDA Farm sector financial ratios, March 14, 2024

<sup>\*\*</sup>Equity rate is the USDA rate of return on farm equity averaged for most recent 25 years.

SOIL: Millgrove, Silt Loam

SLOPE: 0-2 EROSION: Slight

DRAINAGE: Very poorly

PROD. INDEX: 100

	<u>CORN</u>	<b>BEANS</b>	<u>WHEAT</u>
PI DAT yield/acre (1984)	144	52	64
% increased yield	1.50	1.47	1.71
adjusted yield/acre	215	77	109
X Crop Price/Unit	\$4.40	\$10.81	\$5.52
= GROSS INCOME / ACRE	\$946.00	\$832.37	\$601.68
YIELD / ACRE	215	77	109
BASE YIELD	142	44	60
= YIELD ABOVE BASE	73	33	49
X ADDED UNIT COST	\$1.28	\$1.13	\$1.45
ADDED UNIT COST / ACRE	\$93.44	\$37.29	\$71.05
BASE YIELD COST	\$530.29	\$333.03	\$272.17
= TOTAL NON-LAND PROD. COSTS	\$623.73	\$370.32	\$343.22
NET RETURN / ACRE	\$322.27	\$462.05	\$258.46
X CROPPING PATTERN	37.4%	56.8%	5.8%
= ROTATIONAL NET RETURN / ACRE	\$120.53	\$262.44	\$14.99
TOTAL ROTATIONAL NET RETURN	\$397.96		
BASE CAP RATE	8.2%		
VALUE	\$4,853.22	Rounded	\$4,850

7/3/2024

SOIL: Millgrove, Silt Loam

SLOPE: 0-2 EROSION: Slight

DRAINAGE: Very poorly

PROD. INDEX: 100

	<b>CORN</b>	<b>BEANS</b>	<b>WHEAT</b>
PI DAT yield/acre (1984)	144	52	64
% increased yield	1.38	1.39	1.57
adjusted yield/acre	199	72	101
X Crop Price/Unit	\$3.59	\$9.10	\$4.76
= GROSS INCOME / ACRE	\$714.41	\$655.20	\$480.76
YIELD / ACRE	199	72	101
BASE YIELD	134	41	58
= YIELD ABOVE BASE	65	31	43
X ADDED UNIT COST	\$1.34	\$0.89	\$1.29
ADDED UNIT COST / ACRE	\$87.10	\$27.59	\$55.47
BASE YIELD COST	\$491.35	\$322.85	\$284.91
= TOTAL NON-LAND PROD. COSTS	\$578.45	\$350.44	\$340.38
NET RETURN / ACRE	\$135.96	\$304.76	\$140.38
X CROPPING PATTERN	0.371	0.573	0.056
= ROTATIONAL NET RETURN / ACRE	\$50.44	\$174.63	\$7.86
TOTAL ROTATIONAL NET RETURN	\$232.93		
BASE CAP RATE	7.8%		
UNADJUSTED VALUE	\$2,986.28	Rounded	\$2,990

SOIL: Miami Silt Loam

SLOPE: 2-6
EROSION: Slight
DRAINAGE: Well
PROD. INDEX: 76

	<u>CORN</u>	<b>BEANS</b>	<u>WHEAT</u>
PI DAT yield/acre (1984)	108	38	50
% increased yield	1.50	1.47	1.71
adjusted yield/acre	162	56	85
X Crop Price/Unit	\$4.40	\$10.81	\$5.52
= GROSS INCOME / ACRE	\$712.80	\$605.36	\$469.20
YIELD / ACRE	162	56	85
BASE YIELD	142	44	60
= YIELD ABOVE BASE	20	12	25
X ADDED UNIT COST	\$1.28	\$1.13	\$1.45
ADDED UNIT COST / ACRE	\$25.60	\$13.56	\$36.25
BASE YIELD COST	\$530.29	\$333.03	\$272.17
= TOTAL NON-LAND PROD. COSTS	\$555.89	\$346.59	\$308.42
NET RETURN / ACRE	\$156.91	\$258.77	\$160.78
X CROPPING PATTERN	37.4%	56.8%	5.8%
= ROTATIONAL NET RETURN / ACRE	\$58.68	\$146.98	\$9.33
TOTAL ROTATIONAL NET RETURN	\$214.99		
BASE CAP RATE	8.20%		
VALUE	\$2,621.84	Rounded	\$2,620

SOIL: Miami Silt Loam

SLOPE: 2-6
EROSION: Slight
DRAINAGE: Well
PROD. INDEX: 76

	<u>CORN</u>	<b>BEANS</b>	<b>WHEAT</b>
PI DAT yield/acre (1984)	108	38	50
% increased yield	1.38	1.39	1.57
adjusted yield/acre	150	53	79
X Crop Price/Unit	\$3.59	\$9.10	\$4.76
= GROSS INCOME / ACRE	\$538.50	\$482.30	\$376.04
YIELD / ACRE	150	53	79
BASE YIELD	134	41	58
= YIELD ABOVE BASE	16	12	21
X ADDED UNIT COST	\$1.34	\$0.89	\$1.29
ADDED UNIT COST / ACRE	\$21.44	\$10.68	\$27.09
BASE YIELD COST	\$491.35	\$322.85	\$284.91
= TOTAL NON-LAND PROD. COSTS	\$512.79	\$333.53	\$312.00
NET RETURN / ACRE	\$25.71	\$148.77	\$64.04
X CROPPING PATTERN	0.371	0.573	0.056
= ROTATIONAL NET RETURN / ACRE	\$9.54	\$85.25	\$3.59
TOTAL ROTATIONAL NET RETURN	\$98.37		
BASE CAP RATE	7.8%		
UNAD HIGTED VALUE	ć 1261.15	Davis da d	44 000
UNADJUSTED VALUE	\$ 1,261.15	Rounded	\$1,260

			6/21/2	024			
		TY 202	4 Propose	d Final Valu	es		
Productivity	No. of	Net	: Return/Ac	re	Cropl	and Value	Acre
Index	Units	Low	High			High	Average
				_			
0-49	602	\$0	\$97	\$2	\$350	\$350	\$350
50-59	749	\$0	\$158	\$60	\$350	\$1,930	\$691
30 33	173	Ç0	7130	700	<del>-</del>	71,330	\$032
60-69	1,114	\$0	\$235	\$141	\$350	\$2,870	\$1,728
	222	4101	4207	4015	41.000	40.750	40.00
70-79	800	\$131	\$307	\$215	\$1,600	\$3,750	\$2,629
80-89	211	\$216	\$360	\$290	\$2,640	\$4,400	\$3,548
90-99	35	\$322	\$398	\$346	\$3,930	\$4,850	\$4,223
100+	6	\$398	\$398	\$398	\$4,850	\$4,850	\$4,850
	-	7	7	7	+ 1,222	+ -,	7 1,000
ALL	3,517	\$0	\$398	\$128	\$350	\$4,950	\$1,616
			6/9/20				
		Т	Y 2021 Fina	al Values			
Productivity	No. of	Net	: Return/Ac	re	Cropl	and Value	/Acre
Index	Units	Low	High	Average	Low	High	Average
	222	**			40-0	40-0	40-0
0-49	602	\$0	\$2	\$0	\$350	\$350	\$350
50-59	749	\$0	\$60	\$5	\$350	\$770	\$358
60-69	1,114	\$0	\$114	\$43	\$350	\$1,460	\$598
70-79	800	\$33	\$170	\$97	\$430	\$2,190	\$1,253
		,		, .		, ,	. ,
80-89	211	\$94	\$207	\$153	\$1,200	\$2,660	\$1,969
90-99	35	\$174	\$233	\$196	\$2,230	\$2,980	\$2,512
30-33	33	7114	پر کی ک	2130	72,230	¥2,900	72,012
100+	6	\$233	\$233	\$233	\$2,990	\$2,990	\$2,990
All Da -'	2 517	60	6000	Ċ40	6050	¢2.000	A===
All Regions	3,517	\$0	\$233	\$48	\$350	\$2,990	\$759

			6/21/2	024			
		TY 202	4 Propose	d Final Valu	es		
Productivity	No. of	Net	Return/Ac	re	Crop	land Value/	Acre
Index	Units	Low	High Average Low		•		Average
0-49	602	\$0	\$97	\$2	\$350	\$350	\$350
50-59	749	\$0	\$158	\$60	\$350	\$1,930	\$691
60-69	1,114	\$0	\$235	\$141	\$350	\$2,870	\$1,728
70-79	800	\$131	\$307	\$215	\$1,600	\$3,750	\$2,629
				, ,	1 / 1 1	, , , , ,	, , , ,
80-89	211	\$216	\$360	\$290	\$2,640	\$4,400	\$3,548
90-99	35	\$322	\$398	\$346	\$3,930	\$4,850	\$4,223
		<b>4922</b>	Ψ.σ.σ.	ΨΦ.10	40,000	ψ .,σσσ	¥ .,==0
100+	6	\$398	\$398	\$398	\$4,850	\$4,850	\$4,850
ALL	3,517	\$0	\$398	\$128	\$350	\$4,950	\$1,616
ALL	3,311	30	<b>\$330</b>	<b>\$120</b>	<b>\$330</b>	<b>ў</b> т,330	71,010
			5/23/2	023			
		T	Y 2023 Fina	al Values			
Due de eticite	No of	Nat	Data/8		C	land Males	
Productivity Index	No. of Units	Low	Return/Ad High	Average	Low	land Value/ High	Acre Average
			<b>g</b>				
0-49	602	\$0	\$82	\$1	\$350	\$350	\$350
50-59	749	\$0	\$140	\$47	\$350	\$1,750	\$607
		4.0	Ψ=.0	¥	Ţ G G G	Ψ=,	Ψ.σ.σ.
60-69	1,114	\$0	\$206	\$119	\$350	\$2,580	\$1,502
70-79	800	\$108	\$275	\$189	\$1,350	\$3,440	\$2,364
	300	\$100	ŲZ13	Ų103	72,550	ÇO, 1 10	ψ <u>-</u> ,504
80-89	211	\$189	\$325	\$259	\$2,370	\$4,060	\$3,244
90-99	35	\$288	\$354	\$309	\$3,600	\$4,430	\$3,871
30 33	33	7200	7554	2303	75,000	у-т, <del>т</del> 50	75,071
100+	6	\$354	\$354	\$354	\$4,430	\$4,430	\$4,430
A1 1	2 5 1 7	\$0	\$354	¢110	\$350	\$4.420	¢1 ///2
ALL	3,517	\$0	\$354	\$110	\$350	\$4,430	\$1,443

	Average CAUV Values by Year, 2007-2024																	
Productivity													Proposed Final					
Index	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Values 2024
0-49	100	100	176	200	300	350	350	350	350	350	350	350	350	350	350	350	350	350
50-59	100	100	200	214	328	362	516	700	518	466	430	400	378	351	358	409	607	691
60-69	123	188	435	436	632	610	1218	1778	1371	1235	1061	896	731	488	598	915	1502	1728
70-79	283	431	746	845	1126	1147	1958	2728	2347	2255	1969	1723	1469	1073	1253	1672	2364	2629
80-89	521	708	1059	1278	1641	1717	2743	3718	3354	3302	2909	2586	2270	1783	1969	2439	3244	3548
90-99	747	973	1368	1601	2017	2128	3310	4428	4104	4074	3602	3226	2863	2303	2512	3007	3871	4223
100+	970	1200	1620	1900	2380	2490	3780	5030	4770	4750	4205	3810	3420	2820	2990	3550	4430	4850
Average	181	249	459	505	700	719	1205	1668	1388	1310	1153	1015	876	668	759	999	1443	1616
No. of Soils	3510	3511	3511	3514	3514	3514	3514	3514	3514	3514	3514	3514	3514	3514	3517	3517	3517	3517

	Average CAUV Values by Reappraisal/UpdateYear												
Productivity						Proposed Final							
Index	2009	2012	2015	2018	2021	Values 2024							
0-49	176	350	350	350	350	350							
50-59	200	362	518	400	358	691							
60-69	435	610	1371	896	598	1728							
70-79	746	1147	2347	1723	1253	2629							
80-89	1059	1717	3354	2586	1969	3548							
90-99	1368	2128	4104	3226	2512	4223							
100+	1620	2490	4770	3810	2990	4850							
Average	459	719	1388	1015	759	1616							
No. of Soils	3511	3514	3514	3514	3517	3517							

7/3/2024

## **Comparison of Inputs, Tax Years 2021-2024**

Crop Prices					Difference	
	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	2021-2024	2023-2024
Corn	\$3.59	\$3.77	\$4.21	\$ 4.40	\$0.81	\$0.19
Soybeans	\$9.10	\$9.32	\$10.22	\$ 10.81	\$1.71	\$0.59
Wheat	\$4.76	\$4.75	\$5.20	\$ 5.52	\$0.76	\$0.32
Non-land Bradustian Coats						
Non-land Production Costs	2224	0000	0000	0004	0004 0004	0000 0004
Base Cost	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	2021-2024	<u>2023-2024</u>
Corn	\$491.35	491.16	509.17	\$530.29	\$38.94	\$21.12
Soybeans	\$323.17	317.57	323.41	\$333.03	\$9.86	\$9.62
Wheat	\$284.91	269.72	264.36	\$272.17	(\$12.74)	\$7.81
Additional Unit Cost	2021	2022	2023	2024	2021-2024	2023-2024
Corn	\$1.34	\$1.30	\$1.31	\$1.28	(\$0.06)	(\$0.03)
Soybeans	\$0.89	\$0.91	\$1.03	\$1.13	\$0.24	\$0.09
Wheat	\$1.29	\$1.27	\$1.37	\$1.45	\$0.16	\$0.08
Capitalization Rate						
	<u>2021</u>	<u> 2022</u>	<u>2023</u>	<u>2024</u>	2021-2024	2023-2024
Mortgage/Equity Ratio	80/20	80/20	80/20	80/20		
Years	25	25	25	25		
• · · · · · · · · · · · · · · · · · · ·	20	20				
Interest Rate	5.46%	5.55%	5.76%	6.20%		
Interest Rate Equity Rate	_	_	_	6.20% 7.75%		
	5.46%	5.55%	5.76%		0.4%	0.2%