

STATE OF NEW JERSEY

FIFTY FIFTH

REPORT OF

THE STATE FARMLAND EVALUATION COMMITTEE

PRODUCTIVITY VALUES

FOR

2020 TAX YEAR

FARMLAND ASSESSMENT ACT OF 1964

CHAPTER 48, LAWS OF 1964

TRENTON, NEW JERSEY

OCTOBER, 2019

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Also acknowledged with the thanks of the Committee are the services rendered by Richard Belcher, Division of Agriculture and Natural Resources, New Jersey Department of Agriculture; Patricia Wright, Deputy Director; and Marilyn Gaines, Administrative Assistant 2, from the Division of Taxation.

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REPORT OF THE STATE FARMLAND EVALUATION COMMITTEE

The Farmland Assessment Act of 1964 (Chapter 48, Laws of 1964) created a State Farmland Evaluation Advisory Committee. Under the Act, the Director of the Division of Taxation, the Dean of School of Environmental and Biological Sciences, and the Secretary of Agriculture are designated as members. The Laws of 2013 Chapter 43 changed the name of the Committee to the State Farmland Evaluation Committee and expanded membership to include a municipal tax assessor, county assessor or county tax administrator, and a farmer who is a current or former member of the State Board of Agriculture. The Act prescribed the functions and responsibilities of the Committee as follows:

"... The committee shall meet from time to time on the call of the Secretary of Agriculture or the Director of the Division of Taxation and annually determine and publish a range of values for each of the several classifications of land in agricultural and horticultural use in the various areas of the State. The committee shall determine the ranges in fair value of such land based upon its productive capabilities when devoted to agricultural or horticultural uses. In making these annual determinations of value, the committee shall consider available evidence of agricultural or horticultural capability derived from the soil survey at Rutgers, The State University; the National Co-operative Soil Survey; and such other evidence of value of land devoted exclusively to agricultural or horticultural uses as it may in its judgment deem pertinent. On or before October 1 of each year, the committee shall make these ranges of fair value available to the assessing authority in each of the taxing districts in which land in agricultural and horticultural use is located."

The original methodology of capitalizing net farm income per acre to determine the ranges in fair value of the several classifications of qualified land has been continued in this report.

Sources of primary data used in determining fair values are the U.S. Census of Agriculture (1964 through 2017), annual publications of the Economic Research Service and the National Agricultural Statistics Service of the United States Department of Agriculture, the New Jersey Department of Agriculture, the Annual FA-I Data Report, and research publications developed at Rutgers – The State University.

The Committee submits this 2019 report for use in Tax Year 2020.

Douglas H. Fisher, Secretary of Agriculture

Department of Agriculture

Dr. Robert M. Goodman, Executive Dean

School of Environmental and Biological Sciences

Rutgers, The State University of New Jersey

Patricia Wright, Deputy Director

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Gloucester County

Ann Dorsett, Former Member

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LAND USE AND PRODUCTIVITY VALUE

The Farmland Assessment Act emphasizes the importance of land use and productivity as primary measures of value when land is devoted to agricultural production and authorizes the Committee to determine a range of fair values for the several classifications of land qualified by assessors.

Historically, farm operators have used their land in the following ways:

- 1. To produce crops and animal products for sale or feed for animals on the farm;
- 2. To remain fallow or in cover crops as part of a planned rotational program;
- 3. To remain unplowed for grazing or conservation purposes;
- 4. To remain in woods, streams, and meadows, which enhances the productivity of all the land cultivated.

LAND USE CLASSES

The historical uses of farmland described above are the basis for the land use classes listed and defined below:

- 1. <u>Cropland Harvested</u> This land is the heart of a farming enterprise and represents the highest use of land in agriculture. All land from which a crop was harvested in the current year falls into this category.
- 2. <u>Cropland Pastured</u> This land can be and often is used to produce crops, but its maximum income may not be realized in a particular year. Land that is fallow or in cover crops as part of a rotational program falls into this classification.
- 3. <u>Permanent Pasture</u> This land is not cultivated because its maximum economic potential is realized from grazing or as part of erosion control programs. Animals may or may not be part of the farm operation for land to be qualified in this category.
- 4. **Non-Appurtenant Woodland** Woodland which can only qualify for farmland assessment on the basis of being in compliance with a woodland management plan filed with the Department of Environmental Protection. It is actively devoted to the production for sale of tree and forest products.
- 5. <u>Appurtenant Woodland</u> Woodland that is part of a qualified farm. Usually this land is restricted to woodlots because of slope, drainage capability, soil type, or topography. Such land has limited productive use but it provides a windbreak or watershed, or buffers or controls soil erosion.

SOIL GROUPS

Assuming average weather and management, the long-run productive capability of farmland in any of the land-use classes described previously is related primarily to the innate productivity of the soils found in those land-use classes.

To keep the valuation process within reasonable limits, the 215 soil types found in New Jersey were rated and categorized into five clearly defined soil groups by the Soils Department at Rutgers.¹

Those soil groups are described below:

- Group A <u>Very productive farmland</u> The most desirable soil in the area because of high yields and ease of cultivation;
- Group B <u>Good farmland</u> Desirable soil because yields are generally high and the land can be cultivated on a permanent basis;
- Group C <u>Fair farmland</u> Yields are lower than those in soil Group B because of shallowness, propensity for drought, or excessive moisture. This land can be cultivated on a permanent basis;
- Group D <u>Poor farmland</u> This soil is usually too wet, stony, prone to drought, or otherwise unsuitable for permanent cultivation. Yields are low when cultivated;
- Group E <u>Very poor farmland</u> This land is often found in pasture or woodlands. Yields are very low because of excessive water, shallowness, stoniness, or frequent drought.

The boarding, rehabilitating or training of livestock is a qualified agricultural land use and deemed to be actively devoted to agriculture when the area is contiguous to land which otherwise qualifies for farmland assessment. One of the means to qualify a boarding, rehabilitating, or training facility is to use income imputed to land for grazing. This report includes imputed grazing values by soil group and county that may be found in column 6 of $\underline{\text{Tables 1}}$ and $\underline{\text{2}}$.

RANGES IN FAIR VALUES OF FARMLAND

When land use and soil productivity data are combined, a range in fair value of farmland can be determined. These ranges in value are shown in <u>Tables 1</u> and <u>2</u> for each county in New Jersey. The values shown in <u>Table 1</u> are the ranges in the "good" soil category for the agricultural land use classes. <u>Table 2</u> shows the values in <u>Table 1</u> expanded to account for all five soil categories. The values in <u>Table 2</u> are the Committee's estimates of the value of farmland based upon its productive capabilities when devoted to agricultural or horticultural use. These are the ranges in value which the Committee is making available to the assessing authority in each of the taxing districts in accordance with the provisions of Section 20 of the Farmland Assessment Act of 1964.

The general method of calculation of farmland values for the 2020 tax year is shown in the Appendix.

APPENDIX

(a) The U.S. Department of Agriculture publishes annual estimates of state farm income and expenses. The U.S. Census of Agriculture estimates state and county farm income every five years. These data as well as current data available in the Rutgers Department of Agricultural, Food and Resource Economics were used to estimate net farm income, the key determinant of current and future land value. The latest available estimate of statewide net farm income is shown below

New Jersey Net Farm Income Used to Forecast 2020 Tax Year Values

| | Million |
|-------------------------|----------------|
| | <u>Dollars</u> |
| Net Farm Income to Land | \$138.9 |

- (b) State net farm income was allocated to each county using the share of each county's agricultural sales reported in the 2017 Census of Agriculture.
- (c) Net income for each county was capitalized according to a return of 10% to estimate the total value of farmland in that county.²

Example of Determination of Total Value of Land in Farms for a County

| | Net | Capitalized |
|----------|---------------|--------------|
| | <u>Income</u> | <u>Value</u> |
| | (Mil. \$) | (Mil. \$) |
| County A | 2.827 | 28.27 |

(d) When the total capitalized value of farmland in the county is determined, a value per acre can be estimated. First it is necessary to multiply the acreages in each class (cropland harvested, cropland pastured, etc.) by a weighted estimate of income potential when farmland is devoted to that land use.³ Using total income-weighted acres for a county, land value per acre is estimated for appurtenant woodland as a base case. The income weights are then used to calculate per-acre values for the remaining land use classes, each of which is a fixed multiple of appurtenant woodland. Examples of these procedures are shown in (d.1) through (d.5).

| (d.1) | Example of Acreage for a County's 1 | Land Use Classes |
|-------|-------------------------------------|------------------|
| | Cropland Harvested | 27,299 |
| | Cropland Pastured | 3,686 |
| | Permanent Pasture | 12,663 |
| | Non-appurtenant Woodland | 39,557 |
| | Appurtenant Woodland | 17,984 |
| | Total Qualified | 101.189 |

(d.2) <u>Income Weights Used in the Formula to Determine Value of Land Use Classes</u>

| Land Use Class | Income Weights |
|--------------------------|----------------|
| Cropland Harvested | 20 |
| Cropland Pastured | 10 |
| Permanent Pasture | 4 |
| Non-Appurtenant Woodland | 3.5 |
| Appurtenant Woodland | 1 |

(d.3) Example of Computing Value for Land Use Classes for a County

| | | | Income | | Weighted |
|--------------------------|--------------|---|----------------|---|----------------|
| Land Use Class | <u>Acres</u> | X | <u>Weights</u> | = | <u>Acreage</u> |
| Cropland Harvested | 27,299 | | 20 | | 545,980 |
| Cropland Pastured | 3,686 | | 10 | | 36,860 |
| Permanent Pasture | 12,663 | | 4 | | 50,652 |
| Non-Appurtenant Woodland | 39,557 | | 3.5 | | 138,450 |
| Appurtenant Woodland | 7,984 | | 1 | | <u>17,984</u> |
| Total Weighted Acreage | | | | | 789,926 |

(d.4) Dividing total county capitalized value by total weighted acreage calculated in (d.3) determines the estimated fair value of one acre of appurtenant woodland in the county ("X") shown below:

$$X = \frac{\text{Total County Capitalized Value}}{\text{Weighted Acreage}} = \frac{\$28.27 \text{ Million}}{789,926} = \$36 \text{ per acre}$$

(d.5) Values of all land classes are calculated below:

Average Land Use Value of Classes Where X = 36

| Cropland Harvested | 20 | X | 36 | = | 720 |
|--------------------------|-----|---|----|---|-----|
| Cropland Pastured | 10 | X | 36 | = | 360 |
| Permanent Pasture | 4 | X | 36 | = | 144 |
| Non-Appurtenant Woodland | 3.5 | X | 36 | = | 126 |
| Appurtenant Woodland | 1 | X | 36 | = | 36 |

(e) Values similar to those calculated in (d.5) above are are shown in <u>Table 1</u> of this report.⁴ Table 1 shows the ranges in value of the several classifications of land specified in the first paragraph of Section 20 of the Farmland Assessment Act, and which the Committee has determined for land devoted to agricultural use.

- (f) When the values in Table 1 are adjusted for the productivity ratings of the soil as required in the second and third sentences of Section 20, a land value based upon land classification and soil productivity is determined.⁵ The values that reflect soil productivity are the values recommended by the Committee for assessing purposes for Tax Year 2020. Assessors should note that an A value is provided which is 20% above the 100% value for cropland and 10% above the 100% values for woodland and permanent pasture. This value is calculated for farmland of exceptional quality in the district. It also provides a margin of error for data used in the estimation process in this report.
- (g) Land under farm buildings This land, including boarding, training and rehabilitating facilities that are being used for farm activity, is valued as cropland harvested.
- (h) Imputed grazing values These values include the maintenance cost for permanent pasture (mowing/clipping, lime, fertilizer, over seeding and herbicide application). A land cost for permanent pasture also is included. These costs are updated periodically based on changes in labor, equipment and materials. Permanent pasture by definition is a marginal land use (low productivity and low income), which limits the return on labor and material inputs.

TABLE 1 2020 County Values Per Acre by Land Classes

(column 6 shows the imputed grazing values per N.J.S.A. 54:4-23.5 and is used in determining qualifying income, not valuation)

| County | | oland ested | | oland tured | | anent | | ourtenant dland | Appur Woo | Imputed Grazing Values | |
|------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|--------------------|----------------|------------------------------|-------------------|
| | Co | ol. 1 | Col. 2 | | Cc | ol. 3 | Cc | l. 4 | Co | Col. 6 | |
| | Soil Rating | Value Per Acre | Soil Rating | Value Per Acre | Value Per Acre |
| Atlantic | 100 | 940 | 100 | 470 | 100 | 188 | 100 | 165 | 100 | 47 | 162 |
| Bergen | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Burlington | 100 | 760 | 100 | 380 | 100 | 152 | 100 | 133 | 100 | 38 | 158 |
| Camden | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Cape May | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Cumberland | 100 | 840 | 100 | 420 | 100 | 168 | 100 | 147 | 100 | 42 | 160 |
| Essex | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Gloucester | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Hunterdon | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Mercer | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Middlesex | 100 | 880 | 100 | 440 | 100 | 176 | 100 | 154 | 100 | 44 | 161 |
| Monmouth | 100 | 880 | 100 | 440 | 100 | 176 | 100 | 154 | 100 | 44 | 161 |
| Morris | 100 | 860 | 100 | 430 | 100 | 172 | 100 | 151 | 100 | 43 | 160 |
| Ocean | 100 | 800 | 100 | 400 | 100 | 160 | 100 | 140 | 100 | 40 | 159 |
| Passaic | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Salem | 100 | 640 | 100 | 320 | 100 | 128 | 100 | 112 | 100 | 32 | 156 |
| Somerset | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Sussex | 100 | 640 | 100 | 320 | 100 | 128 | 100 | 112 | 100 | 32 | 156 |
| Union | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Warren | 100 | 700 | 100 | 350 | 100 | 140 | 100 | 123 | 100 | 35 | 157 |

TABLE 2

2020 County Estimates of Ranges in Value of Farmland Based Upon Land Classification and
Productive Capabilities When Devoted to Agricultural or Horticultural Use

(column 6 shows the imputed grazing values per N.J.S.A. 54:4-23.5 and is used in determining qualifying income, not valuation)

| County | | Cropland Harvested | | Cropland Pastured Permanent Pasture Non-Appurtenant Woodland Woodland | | | | | | | Imputed Grazing Values | |
|------------|-------|-----------------------|----------|---|----------|--------|----------|--------|----------|--------|------------------------------|-----------|
| | | Co | l. 1 | Co | l. 2 | Co | ol. 3 | Co | ol. 4 | Co | l. 5 | Col. 6 |
| | Soil | Soil | Value | Soil | Value | Soil | Value | Soil | Value | Soil | Value | Value Per |
| | Group | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Acre |
| | А | 120 | 1128 | 120 | 564 | 110 | 207 | 110 | 181 | 110 | 52 | 164 |
| | В | 100 | 940 | 100 | 470 | 100 | 188 | 100 | 165 | 100 | 47 | 162 |
| Atlantic | С | 70 | 658 | 70 | 329 | 80 | 150 | 90 | 148 | 90 | 42 | 158 |
| | D | 40 | 376 | 40 | 188 | 70 | 132 | 80 | 132 | 80 | 38 | 156 |
| | Е | 10 | 94 | 10 | 47 | 60 | 113 | 70 | 115 | 70 | 33 | 154 |
| | | | | | | | | | | | | |
| | Α | 120 | 1080 | 120 | 540 | 110 | 198 | 110 | 173 | 110 | 50 | 163 |
| | В | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Bergen | С | 70 | 630 | 70 | 315 | 80 | 144 | 90 | 142 | 90 | 41 | 157 |
| | D | 40 | 360 | 40 | 180 | 70 | 126 | 80 | 126 | 80 | 36 | 156 |
| | E | 10 | 90 | 10 | 45 | 60 | 108 | 70 | 110 | 70 | 32 | 154 |
| | | | | | | | | | | | | |
| | А | 120 | 912 | 120 | 456 | 110 | 167 | 110 | 146 | 110 | 42 | 160 |
| | В | 100 | 760 | 100 | 380 | 100 | 152 | 100 | 133 | 100 | 38 | 158 |
| Burlington | С | 70 | 532 | 70 | 266 | 80 | 122 | 90 | 120 | 90 | 34 | 155 |
| | D | 40 | 304 | 40 | 152 | 70 | 106 | 80 | 106 | 80 | 30 | 154 |
| | Е | 10 | 76 | 10 | 38 | 60 | 91 | 70 | 93 | 70 | 27 | 152 |
| | | | | | | | | | | | | |
| | Α | 120 | 1080 | 120 | 540 | 110 | 198 | 110 | 173 | 110 | 50 | 163 |
| | В | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Camden | С | 70 | 630 | 70 | 315 | 80 | 144 | 90 | 142 | 90 | 41 | 157 |
| | D | 40 | 360 | 40 | 180 | 70 | 126 | 80 | 126 | 80 | 36 | 156 |
| | Е | 10 | 90 | 10 | 45 | 60 | 108 | 70 | 110 | 70 | 32 | 154 |

Table 2 - Continued

| County | County Cropla Harves | | | Cropland | Pastured | Permane | Permanent Pasture | | ourtenant odland | Appurtenant Woodland | | Imputed Grazing Values |
|------------|----------------------|--------|----------|----------|----------|---------|-------------------|--------|---------------------|-------------------------|----------|------------------------------|
| | | Co | ol. 1 | Col. 2 | | Co | ol. 3 | Co | ol. 4 | Co | ol. 5 | Col. 6 |
| | Soil | Soil | Value | Soil | Value | Soil | Value | Soil | Value | Soil | Value | Value Pe |
| | Group | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Acre |
| | Α | 120 | 936 | 120 | 468 | 110 | 172 | 110 | 150 | 110 | 43 | 160 |
| | В | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Cape May | С | 70 | 546 | 70 | 273 | 80 | 125 | 90 | 123 | 90 | 35 | 155 |
| | D | 40 | 312 | 40 | 156 | 70 | 109 | 80 | 109 | 80 | 31 | 154 |
| | E | 10 | 78 | 10 | 39 | 60 | 94 | 70 | 96 | 70 | 27 | 152 |
| | | | | | | | | | | | | |
| | Α | 120 | 1008 | 120 | 504 | 110 | 185 | 110 | 162 | 110 | 46 | 161 |
| | В | 100 | 840 | 100 | 420 | 100 | 168 | 100 | 147 | 100 | 42 | 160 |
| Cumberland | С | 70 | 588 | 70 | 294 | 80 | 134 | 90 | 132 | 90 | 38 | 156 |
| | D | 40 | 336 | 40 | 168 | 70 | 118 | 80 | 118 | 80 | 34 | 155 |
| | E | 10 | 84 | 10 | 42 | 60 | 101 | 70 | 103 | 70 | 29 | 153 |
| | | | | | | | | | | | | |
| | Α | 120 | 1080 | 120 | 540 | 110 | 198 | 110 | 173 | 110 | 50 | 163 |
| | В | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Essex | С | 70 | 630 | 70 | 315 | 80 | 144 | 90 | 142 | 90 | 41 | 157 |
| | D | 40 | 360 | 40 | 180 | 70 | 126 | 80 | 126 | 80 | 36 | 156 |
| | E | 10 | 90 | 10 | 45 | 60 | 108 | 70 | 110 | 70 | 32 | 154 |
| | | | | | | | | | | | | |
| | Α | 120 | 936 | 120 | 468 | 110 | 172 | 110 | 150 | 110 | 43 | 160 |
| | В | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Gloucester | С | 70 | 546 | 70 | 273 | 80 | 125 | 90 | 123 | 90 | 35 | 155 |
| | D | 40 | 312 | 40 | 156 | 70 | 109 | 80 | 109 | 80 | 31 | 154 |
| | E | 10 | 78 | 10 | 39 | 60 | 94 | 70 | 96 | 70 | 27 | 152 |
| | | | | | | | | | | | | |
| | А | 120 | 936 | 120 | 468 | 110 | 172 | 110 | 150 | 110 | 43 | 160 |
| | В | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Hunterdon | С | 70 | 546 | 70 | 273 | 80 | 125 | 90 | 123 | 90 | 35 | 155 |
| | D | 40 | 312 | 40 | 156 | 70 | 109 | 80 | 109 | 80 | 31 | 154 |
| | E | 10 | 78 | 10 | 39 | 60 | 94 | 70 | 96 | 70 | 27 | 152 |

Table 2 - Continued

| County | | | oland ested | Cropland Pastured | | Permanent Pasture | | Non-Appurtenant Woodland | | Appurtenant Woodland | | Imputed Grazing Values |
|-----------|-------|--------|----------------|-------------------|----------|-------------------|----------|-----------------------------|----------|-------------------------|----------|------------------------------|
| | | Со | ol. 1 | Со | l. 2 | Co | l. 3 | Co | ol. 4 | Co | l. 5 | Col. 6 |
| | Soil | Soil | Value | Soil | Value | Soil | Value | Soil | Value | Soil | Value | Value Per |
| | Group | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Rating | Per Acre | Acre |
| | А | 120 | 936 | 120 | 468 | 110 | 172 | 110 | 150 | 110 | 43 | 160 |
| | В | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Mercer | С | 70 | 546 | 70 | 273 | 80 | 125 | 90 | 123 | 90 | 35 | 155 |
| | D | 40 | 312 | 40 | 156 | 70 | 109 | 80 | 109 | 80 | 31 | 154 |
| | E | 10 | 78 | 10 | 39 | 60 | 94 | 70 | 96 | 70 | 27 | 152 |
| | | | | | | | | | | | | |
| | А | 120 | 1056 | 120 | 528 | 110 | 194 | 110 | 169 | 110 | 48 | 162 |
| | В | 100 | 880 | 100 | 440 | 100 | 176 | 100 | 154 | 100 | 44 | 161 |
| Middlesex | С | 70 | 616 | 70 | 308 | 80 | 141 | 90 | 139 | 90 | 40 | 157 |
| | D | 40 | 352 | 40 | 176 | 70 | 123 | 80 | 123 | 80 | 35 | 155 |
| | E | 10 | 88 | 10 | 44 | 60 | 106 | 70 | 108 | 70 | 31 | 154 |
| | | | | | | | | | | | | |
| | Α | 120 | 1056 | 120 | 528 | 110 | 194 | 110 | 169 | 110 | 48 | 162 |
| | В | 100 | 880 | 100 | 440 | 100 | 176 | 100 | 154 | 100 | 44 | 161 |
| Monmouth | С | 70 | 616 | 70 | 308 | 80 | 141 | 90 | 139 | 90 | 40 | 157 |
| | D | 40 | 352 | 40 | 176 | 70 | 123 | 80 | 123 | 80 | 35 | 155 |
| | E | 10 | 88 | 10 | 44 | 60 | 106 | 70 | 108 | 70 | 31 | 154 |
| | | | | | | | | | | | | |
| | А | 120 | 1032 | 120 | 516 | 110 | 189 | 110 | 166 | 110 | 47 | 162 |
| | В | 100 | 860 | 100 | 430 | 100 | 172 | 100 | 151 | 100 | 43 | 160 |
| Morris | С | 70 | 602 | 70 | 301 | 80 | 138 | 90 | 135 | 90 | 39 | 157 |
| | D | 40 | 344 | 40 | 172 | 70 | 120 | 80 | 120 | 80 | 34 | 155 |
| | E | 10 | 86 | 10 | 43 | 60 | 103 | 70 | 105 | 70 | 30 | 153 |
| | | | | | | | | | | | | |
| | А | 120 | 960 | 120 | 480 | 110 | 176 | 110 | 154 | 110 | 44 | 161 |
| | В | 100 | 800 | 100 | 400 | 100 | 160 | 100 | 140 | 100 | 40 | 159 |
| Ocean | С | 70 | 560 | 70 | 280 | 80 | 128 | 90 | 126 | 90 | 36 | 156 |
| | | 4.0 | | 40 | 160 | 70 | 112 | 80 | 112 | 80 | 32 | 154 |
| | D | 40 | 320 | 40 | 160 | / / / | | 00 | | 00 | 32 | 154 |

Table 2 - Continued

| County | | Cropland Harvested | | Cropland Pastured Col. 2 | | Permanent Pasture Col. 3 | | Non-Appurtenant Woodland | | Appurtenant Woodland Col. 5 | | Imputed Grazing Values Col. 6 |
|----------|---------------|-----------------------|-------------------|--------------------------|-------------------|---------------------------|-------------------|-----------------------------|-------------------|-----------------------------------|-------------------|--|
| | | | | | | | | | | | | |
| | Soil Group | Soil Rating | Value Per Acre | Soil Rating | Value Per Acre | Soil Rating | Value Per Acre | Soil Rating | Value Per Acre | Soil Rating | Value Per Acre | Value Per Acre |
| | Α | 120 | 1080 | 120 | 540 | 110 | 198 | 110 | 173 | 110 | 50 | 163 |
| | В | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Passaic | С | 70 | 630 | 70 | 315 | 80 | 144 | 90 | 142 | 90 | 41 | 157 |
| | D | 40 | 360 | 40 | 180 | 70 | 126 | 80 | 126 | 80 | 36 | 156 |
| | Е | 10 | 90 | 10 | 45 | 60 | 108 | 70 | 110 | 70 | 32 | 154 |
| | A | 120 | 768 | 120 | 384 | 110 | 141 | 110 | 123 | 110 | 35 | 157 |
| | В | 100 | 640 | 100 | 320 | 100 | 128 | 100 | 112 | 100 | 32 | 156 |
| Salem | С | 70 | 448 | 70 | 224 | 80 | 102 | 90 | 101 | 90 | 29 | 153 |
| | D | 40 | 256 | 40 | 128 | 70 | 90 | 80 | 90 | 80 | 26 | 152 |
| | Е | 10 | 64 | 10 | 32 | 60 | 77 | 70 | 78 | 70 | 22 | 151 |
| | Α | 120 | 936 | 120 | 468 | 110 | 172 | 110 | 150 | 110 | 43 | 160 |
| | В | 100 | 780 | 100 | 390 | 100 | 156 | 100 | 137 | 100 | 39 | 159 |
| Somerset | C | 70 | 546 | 70 | 273 | 80 | 125 | 90 | 123 | 90 | 35 | 155 |
| | D | 40 | 312 | 40 | 156 | 70 | 109 | 80 | 109 | 80 | 31 | 154 |
| | Е | 10 | 78 | 10 | 39 | 60 | 94 | 70 | 96 | 70 | 27 | 152 |
| | A | 120 | 768 | 120 | 384 | 110 | 141 | 110 | 123 | 110 | 35 | 157 |
| | В | 100 | 640 | 100 | 320 | 100 | 128 | 100 | 112 | 100 | 32 | 156 |
| Sussex | С | 70 | 448 | 70 | 224 | 80 | 102 | 90 | 101 | 90 | 29 | 153 |
| | D | 40 | 256 | 40 | 128 | 70 | 90 | 80 | 90 | 80 | 26 | 152 |
| | Е | 10 | 64 | 10 | 32 | 60 | 77 | 70 | 78 | 70 | 22 | 151 |
| | A | 120 | 1080 | 120 | 540 | 110 | 198 | 110 | 173 | 110 | 50 | 163 |
| | В | 100 | 900 | 100 | 450 | 100 | 180 | 100 | 158 | 100 | 45 | 161 |
| Union | С | 70 | 630 | 70 | 315 | 80 | 144 | 90 | 142 | 90 | 41 | 157 |
| | D | 40 | 360 | 40 | 180 | 70 | 126 | 80 | 126 | 80 | 36 | 156 |
| | E | 10 | 90 | 10 | 45 | 60 | 108 | 70 | 110 | 70 | 32 | 154 |
| | A | 120 | 840 | 120 | 420 | 110 | 154 | 110 | 135 | 110 | 39 | 158 |
| | В | 100 | 700 | 100 | 350 | 100 | 140 | 100 | 123 | 100 | 35 | 157 |
| Warren | С | 70 | 490 | 70 | 245 | 80 | 112 | 90 | 110 | 90 | 32 | 154 |
| | D | 40 | 280 | 40 | 140 | 70 | 98 | 80 | 98 | 80 | 28 | 153 |
| | E | 10 | 70 | 10 | 35 | 60 | 84 | 70 | 86 | 70 | 25 | 151 |

FOOTNOTES

- 1. Soil types were rated and categorized by Dr. John Tedrow, Late Professor of Soils at Cook College, Rutgers. A description of New Jersey soil ratings is contained in "Productive Capability of New Jersey Soils and Crops," Rutgers The State University. A soils guide for use in connection with the valuation assessment, and taxation of land under the Farmland Assessment Act of 1964, Chapter 48, Laws of 1964 (N.J.S.A. 54:4-23.1 et seq.).
- 2. The capitalization rate of 10% considers a 7 1/2% rate of return equaling a farm mortgage rate of interest of 7 1/2% and 2 1/2% return for wages of management and unpaid family labor.
- 3. The number of acres in each land use class was determined by the amount of land qualified by assessors as shown in the annual FA-1 report. The income weights were determined by agricultural economists at Rutgers, The State University of New Jersey.
- 4. Because this is merely an example of the methodology for one county, actual input data from the most recent available year are used throughout. Because land values reflect anticipated net income over many years, it is incorrect to estimate them using data drawn from only one year. Table 1 as published utilizes a trend-based forecast of the X value calculated in (d.4). This approach provides the year-to-year stability in agricultural land values that we actually observe, and which is an essential feature of the capitalization framework.
- 5. See Subchapter 14, State Farmland Evaluation Committee, N.J.A.C. 18:15-14.1.