



**STATE OF NEW JERSEY**

**FIFTY FIRST**

**REPORT OF**

**THE STATE FARMLAND EVALUATION**

**ADVISORY COMMITTEE**

**PRODUCTIVITY VALUES**

**FOR**

**2015 TAX YEAR**

**FARMLAND ASSESSMENT ACT OF 1964**

**CHAPTER 48, LAWS OF 1964**

**TRENTON, NEW JERSEY**

**OCTOBER, 2014**

## **ACKNOWLEDGMENTS**

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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, Secretarial Assistant 1 from the Division of Taxation.

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## REPORT OF THE STATE FARMLAND EVALUATION ADVISORY COMMITTEE

The Farmland Assessment Act of 1964 (Chapter 48, Laws of 1964) created a State Farmland Evaluation Advisory Committee and designated as the members thereof the Director of the Division of Taxation, the Dean of School of Environmental and Biological Sciences and the Secretary 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 and annually determine and publish a range of values for each of the several classifications of land in agricultural or horticultural use in the various areas of the State. The primary objective of the Committee shall be the determination of 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 values, the Committee shall consider available evidence of agricultural or horticultural capability derived from the soil survey at Rutgers - The State University, the National Cooperative 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 or horticultural use is located."

The original methodology of capitalizing net farm income per acre in determining 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 2007), annual publications of the Economics Research Service and the National Agricultural Statistics Service of the United States Department of Agriculture, the New Jersey Department of Agriculture, the Annual FA-1 Data Report and research publications developed at Rutgers - The State University.

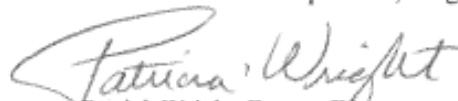
The Committee submits this 2014 report for use in the tax year 2015.



Douglas H. Fisher, Secretary of Agriculture  
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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. **Cropland Harvested** - 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. **Cropland Pastured** - 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 in this classification.
3. **Permanent Pasture** - 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. **Appurtenant Woodland** - 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, watershed, 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\*

\*=Footnotes

Those soil groups are described below:

Group A - **Very productive farmland** - The most desirable soil in the area because of high yields and ease of cultivation.

Group B - **Good farmland** - Desirable soil because yields are generally high and the land can be cultivated on a permanent basis.

Group C - **Fair farmland** - Yields are lower than those in soil Group B because of shallowness, droughtiness, or excessive moisture. This land can be cultivated on a permanent basis.

Group D - **Poor farmland** - This soil is usually too wet, stony, droughty, or otherwise unsuitable for permanent cultivation. Yields are low when cultivated.

Group E - **Very poor farmland** - This land is often found in pasture or woodlands. Yields are very low because of excessive water, shallowness, stoniness, or droughtiness.

The boarding, rehabilitating or training of livestock is a qualified agricultural land use and deemed to be actively devoted to agriculture when that 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 and may be found in column 6 of Tables 1 and 2.

### **RANGES IN FAIR VALUES OF FARMLAND**

When land use and estimate of soil productivity are combined, a range in fair value of farmland can be determined. These ranges in value are shown in Tables 1 and 2 for each county in New Jersey. The values shown in Table 1 are the ranges in good value between the land use classes. The values in Table 1 are then modified by the soil ratings shown in Table 2. The values in Table 2 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 2015 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 estimates state and county farm income every five years. These estimates as well as current data available in the Department of Agricultural, Food and Resource Economics, School of Environmental and Biological Sciences were used in determining net farm income for New Jersey agriculture for 2014.

**Estimated New Jersey Net Farm Income – 2014**

	<u>Million Dollars</u>	
Cash Receipts	\$829.2	<u>2*</u>
Government Payments	9.8	
Value of Home Consumption	1.1	
Change in Inventory	<u>+5.0</u>	
Farm Income	\$845.1	<u>3*</u>
Farm Expenses	<u>-806.4</u>	<u>4*</u>
<b>NET FARM INCOME TO LAND</b>	<b>\$38.7</b>	<b><u>5*</u></b>

- (b) In order to allocate State net farm income to each county, an estimate of farm income was determined for each county from data in the "Census of Agriculture 1964-2007" and published estimates of net income in previous evaluation reports.

**Example of Projected County Income as a Percent of State Income**

	2011	2012	2013	2014
County	Mil.\$ %	Mil.\$%	Mil.\$%	Mil.\$%
State	.51 1.4	.54 1.5	.6 1.5	.58 1.5
State	36.9 100	35.7 100	39.7 100	38.7 100

- (c) Ratios as determined in (b) above were used to allocate State net farm income to each county.

**Example of Determination of County Net Farm Income**

	Net Farm <u>Income</u> (Mil. \$)	<u>Percent</u>
County	<u>.58</u>	<u>1.5</u>
State	38.7	100.0

- (d) Net income for each county was then capitalized according to a return of 10% to estimate the total value of farmland in that county. 6\*

**Example of Determination of Total Value of Land in Farms For a County**

	Net <u>Income</u> (Mil. \$)	Capitalized <u>Value</u> (Mil. \$)
County	.58	5.8

\*=Footnotes

(e) When the total capitalized value of farmland in the county is determined, a value per acre can be estimated for each land use classification by multiplying acreages in the class (cropland harvested, cropland pastured, etc.) by a weighted estimate of income potential when farmland is devoted to that land use. The number of acres used in the formula for each land use class was determined by the amount of land qualified by assessors as shown in the annual FA-1 report. Further, it is necessary to consider any anticipated changes in each of the land use classifications for the projected tax year (see e.1 below). The potential income weights were determined by agricultural economist at Rutgers, The State University of New Jersey (see e.2 below). An example illustrating these procedures are portrayed in e.1, e.2, f.1, and f.2. The data contained in e.1 represents a cross section of the 20 counties reporting qualified acreage under the Farmland Assessment Act of 1964.

(e.1) **Example of Projected Acreages for County Land Use Classes for 2013**

	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>
Cropland Harvested	3,510	3,610	3,749	3,749
Cropland Pastured	317	317	317	317
Permanent Pasture	5,251	5,251	5,513	4,214
Non-Appurtenant Woodland	12,036	12,036	16,343	16,215
Appurtenant Woodland	<u>1,534</u>	<u>1,534</u>	<u>1,534</u>	<u>1,534</u>
Total Qualified	22,648	22,748	27,456	26,029

(e.2) **Income Weights Used in the formula to Determine Value of Land Use Classes** 7\*

<u>Land Use Class</u>	<u>Income Weights</u>
Cropland Harvested	20
Cropland Pastured	10
Permanent Pasture	4
Non-Appurtenant Woodland	3.5
Appurtenant Woodland	1

(f) When acreage in land use classes are combined with income weights for that class, a weighted estimate of acreage based upon income potential is determined for each land use class in the county. (see f.1 below).

(f.1) **Example of Computing Value for Land Use Classes for a County for 2014**

<u>Land Use Class</u>	<u>Acres</u>	x	<u>Income Weights</u>	=	<u>Weighted Acreage</u>
Cropland Harvested	3,749		20		74,980
Cropland Pastured	317		10		3,170
Permanent Pasture	4,214		4		16,856
Non-Appurtenant Woodland	16,215		3.5		56,753
Appurtenant Woodland	1,534		1		<u>1,534</u>
Total Weighted Acreage					153,293

- (f.2) Dividing total county capitalized value by total weighted acreage calculated in (f.1) determines the value of "X" shown below:

$$X = \frac{\text{Total County Capitalized Value}}{\text{Weighted Acreage}} = \frac{5.8 \text{ Million}}{153,293} = \$38 \text{ per acre}$$

The "X" value is the value of woodland in the county for 2014.

- (f.3) Values of all land classes are calculated below:

**Average Land Use Value of Classes Where X = 38**

Cropland Harvested	20	x	38	=	760
Cropland Pastured	10	x	38	=	380
Permanent Pasture	4	x	38	=	152
Non-Appurtenant Woodland	3.5	x	38	=	133
Appurtenant Woodland	1	x	38	=	38

- (g) The values calculated in (f.3) above are the ranges in value of the several classifications of land specified in the first paragraph of Section 20 of the Farmland Assessment Act which the Committee has determined for land devoted to agricultural use. These values are shown in Table 1.
- (h) 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. 8\* The values that reflect soil productivity are the values recommended by the Committee for assessing purposes for the tax year 2015. 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.



TABLE 1

2015 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	CROPLAND HARVESTED		CROPLAND PASTURED		PERMANENT PASTURE		NON-APPURTENANT WOODLAND		APPURTENANT WOODLAND		IMPUTED GRAZING VALUES
	COL. 1		COL. 2		COL. 3		COL. 4		COL. 5		COL. 6
	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
ATLANTIC	100	940	100	470	100	188	100	164	100	47	\$143
BERGEN	100	880	100	440	100	176	100	154	100	44	\$142
BURLINGTON	100	800	100	400	100	160	100	140	100	40	\$140
CAMDEN	100	860	100	430	100	172	100	151	100	43	\$141
CAPE MAY	100	800	100	400	100	160	100	140	100	40	\$140
CUMBERLAND	100	820	100	410	100	164	100	144	100	41	\$140
ESSEX	100	880	100	440	100	176	100	154	100	44	\$142
GLOUCESTER	100	800	100	400	100	160	100	140	100	40	\$140
HUNTERDON	100	780	100	390	100	156	100	137	100	39	\$140
MERCER	100	760	100	380	100	152	100	133	100	38	\$139
MIDDLESEX	100	860	100	430	100	172	100	151	100	43	\$141
MONMOUTH	100	880	100	440	100	176	100	154	100	44	\$142
MORRIS	100	880	100	440	100	176	100	154	100	44	\$142
OCEAN	100	760	100	380	100	152	100	133	100	38	\$139
PASSAIC	100	880	100	440	100	176	100	154	100	44	\$142
SALEM	100	640	100	320	100	128	100	112	100	32	\$137
SOMERSET	100	780	100	390	100	156	100	137	100	39	\$140
SUSSEX	100	660	100	330	100	132	100	116	100	33	\$137
UNION	100	880	100	440	100	176	100	154	100	44	\$142
WARREN	100	660	100	330	100	132	100	116	100	33	\$137

TABLE 2

2015 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	SOIL GROUP	CROPLAND HARVESTED		CROPLAND PASTURED		PERMANENT PASTURE		NON-APPURTENANT WOODLAND		APPURTENANT WOODLAND		IMPUTED GRAZING VALUES
		COL. 1		COL. 2		COL. 3		COL. 4		COL. 5		COL. 6
		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
ATLANTIC	A	120	1,128	120	564	110	206	110	181	110	52	145
	B	100	940	100	470	100	182	100	165	100	47	143
	C	70	658	70	329	80	151	90	149	90	42	139
	D	40	376	40	188	70	132	80	133	80	38	137
	E	10	94	10	47	60	104	70	117	70	33	135
BERGEN	A	120	1,056	120	528	110	193	110	169	110	48	143
	B	100	880	100	440	100	176	100	154	100	44	142
	C	70	616	70	308	80	142	90	139	90	40	138
	D	40	352	40	176	70	123	80	124	80	35	136
	E	10	88	10	44	60	106	70	109	70	31	135
BURLINGTON	A	120	960	120	480	110	176	110	154	110	44	142
	B	100	800	100	400	100	160	100	140	100	40	140
	C	70	560	70	280	80	128	90	126	90	36	137
	D	40	320	40	160	70	112	80	112	80	32	135
	E	10	80	10	40	60	96	70	98	70	28	134
CAMDEN	A	120	1,032	120	516	110	189	110	165	110	47	143
	B	100	860	100	430	100	172	100	150	100	43	141
	C	70	612	70	301	80	138	90	135	90	39	138
	D	40	344	40	172	70	120	80	120	80	34	136
	E	10	86	10	43	60	103	70	105	70	30	134
CAPE MAY	A	120	960	120	480	110	176	110	154	110	44	142
	B	100	800	100	400	100	160	100	140	100	40	140
	C	70	560	70	280	80	128	90	126	90	36	137
	D	40	320	40	160	70	112	80	112	80	32	135
	E	10	80	10	40	60	96	70	98	70	28	134
CUMBERLAND	A	120	984	120	492	110	180	110	158	110	45	142
	B	100	820	100	410	100	164	100	144	100	41	140
	C	70	574	70	287	80	131	90	130	90	37	137
	D	40	328	40	164	70	115	80	115	80	33	135
	E	10	82	10	41	60	98	70	100	70	29	134

TABLE 2 - CONTINUED

COUNTY	SOIL GROUP	COL. 1		CROPLAND PASTURED		PERMANENT PASTURE		NON-APPURTENANT WOODLAND		APPURTENANT WOODLAND		IMPUTED GRAZING VALUES
		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	COL. 6
ESSEX	A	120	1,056	120	528	110	193	110	169	110	48	143
	B	100	880	100	440	100	176	100	154	100	44	142
	C	70	616	70	308	80	142	90	139	90	40	138
	D	40	352	40	176	70	123	80	124	80	35	136
	E	10	88	10	44	60	106	70	109	70	31	135
GLOUCESTER	A	120	960	120	480	110	176	110	154	110	44	142
	B	100	800	100	400	100	160	100	140	100	40	140
	C	70	560	70	280	80	128	90	126	90	36	137
	D	40	320	40	160	70	112	80	112	80	32	135
	E	10	80	10	40	60	96	70	98	70	28	134
HUNTERDON	A	120	936	120	468	110	172	110	151	110	43	141
	B	100	780	100	390	100	156	100	137	100	39	140
	C	70	546	70	273	80	125	90	123	90	35	136
	D	40	312	40	156	70	109	80	110	80	31	135
	E	10	78	10	39	60	94	70	96	70	27	133
MERCER	A	120	912	120	456	110	167	110	146	110	42	141
	B	100	760	100	380	260	152	100	133	100	38	139
	C	70	538	70	260	152	122	90	120	90	34	136
	D	40	304	40	152	38	108	80	108	93	30	135
	E	10	76	10	38	60	91	70	93	70	27	133
MIDDLESEX	A	120	1,032	120	516	110	189	110	163	110	47	143
	B	100	860	100	430	100	172	100	150	100	43	141
	C	70	612	70	301	80	138	90	135	90	39	138
	D	40	344	40	172	70	120	80	120	80	34	136
	E	10	86	10	43	60	123	70	105	70	30	134
MONMOUTH	A	120	1,056	120	528	110	193	110	169	110	48	143
	B	100	880	100	440	100	176	100	154	100	44	142
	C	70	616	70	308	80	142	90	139	90	40	138
	D	40	352	40	176	70	123	80	124	80	35	136
	E	10	88	10	44	60	106	70	109	70	31	135
MORRIS	A	120	1,056	120	528	110	193	110	169	110	48	143
	B	100	880	100	440	100	176	100	154	100	44	142
	C	70	616	70	308	80	142	90	139	90	40	138
	D	40	352	40	176	70	123	80	124	80	35	136
	E	10	88	10	44	60	106	70	109	70	31	135

TABLE 2 - CONTINUED

COUNTY	SOIL GROUP	CROPLAND HARVESTED		CROPLAND PASTURED		PERMANENT PASTURE		NON-APPURTENANT WOODLAND		APPURTENANT WOODLAND		IMPUTED GRAZING VALUES
		COL. 1		COL. 2		COL. 3		COL. 4		COL. 5		COL. 6
		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
OCEAN	A	120	912	120	456	110	167	110	146	110	42	141
	B	100	760	100	380	100	152	122	133	100	38	139
	C	70	538	70	260	80	122	108	120	90	34	136
	D	40	304	40	152	70	108	91	108	80	30	135
	E	10	76	10	38	60	91	70	93	70	27	133
PASSAIC	A	120	1,056	120	528	110	193	110	169	110	48	143
	B	100	880	100	440	100	176	100	154	100	44	142
	C	70	616	70	308	80	142	90	139	90	40	138
	D	40	352	40	176	70	123	80	124	80	35	136
	E	10	88	10	44	60	106	70	109	70	31	135
SALEM	A	120	768	120	384	110	144	110	123	110	36	138
	B	100	640	100	320	100	128	100	112	100	32	137
	C	70	448	70	224	80	102	90	101	90	29	134
	D	40	256	40	128	70	90	80	90	80	26	133
	E	10	64	10	32	60	77	70	78	70	22	132
SOMERSET	A	120	936	120	468	110	172	110	151	110	43	141
	B	100	780	100	390	100	156	100	137	100	39	140
	C	70	546	70	273	80	125	90	123	90	35	136
	D	40	312	40	156	70	109	80	110	80	31	135
	E	10	78	10	39	60	94	70	96	70	27	133
SUSSEX	A	120	792	120	396	110	145	110	128	110	36	139
	B	100	660	100	330	100	132	100	116	100	33	137
	C	70	462	70	231	80	106	90	104	90	30	135
	D	40	264	40	132	70	92	80	93	80	26	133
	E	10	66	10	33	60	79	70	81	70	23	132
UNION	A	120	1,056	120	528	110	193	110	169	110	48	143
	B	100	880	100	440	100	176	100	154	100	44	142
	C	70	616	70	308	80	142	90	139	90	40	138
	D	40	352	40	176	70	123	80	124	80	35	136
	E	10	88	10	44	60	106	70	109	70	31	135
WARREN	A	120	792	120	396	110	145	110	128	110	36	139
	B	100	660	100	330	100	132	100	116	100	33	137
	C	70	462	70	231	80	106	90	104	90	30	138
	D	40	264	40	132	70	92	80	93	80	26	133
	E	10	66	10	33	60	79	70	81	70	23	132

## **FOOTNOTES**

1. Soil types were rated and categorized by Dr. John Tedrow, Professor of Soils at Cook College, Rutgers. A description of New Jersey soil ratings are 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.), p. 2.
2. Cash receipts are adjusted for income from floricultural crops grown under glass and poultry income which doesn't result from the land, p. 4.
3. Non-money income which is an imputed value for the rental value of the farm dwelling is excluded from farm income because the farm dwelling is excluded from assessment under the Farmland Assessment Act. Other income not earned from farming is also excluded, p. 4.
4. Expenses for the farm dwelling, floricultural crops grown under glass, and poultry are excluded from farm expenses, p. 4.
5. Net farm income does not include wages of management or a payment for family labor, p. 4.
6. 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, p. 4.
7. The weighting system allocates 79% of net farm income to cropland harvested and cropland pastured based upon estimates of the Soils and Crops Department and the Department of Agricultural Economics and Marketing, School of Environmental and Biological Sciences, Rutgers - The State University, p. 5.
8. See Subchapter 14 State Farmland Evaluation Committee, N.J.A.C. 18:15-14.1, p.6.
9. 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 is also 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.