Questions regarding any statutorily related issues surrounding use-value assessment should be directed to Jason Hughes at the Property Tax Unit, Virginia Department of Taxation. Questions regarding the technical aspects of the methodology used to produce the use-value estimates reported in this brochure should be directed to Lex Bruce or Gordon Groover at the Department of Agricultural and Applied Economics, Virginia Tech.

Land Capa	ability Classifications
Class I	Soils have few limitations that restrict use.
Class II	Soils have moderate limitations that reduce the choice of plants or require moderate conservation practices.
Class III	Soils have severe limitations that reduce the choice of plants, require special conservation practices, or both.
Class IV	Soils have very severe limitations that restrict the choice of plants, require very careful management, or both.
Class V	Soils are subject to little or no erosion but have other limitations, impractical to remove, that limit their use largely to pasture, range, woodland, or wildlife food and
Class VI	Soils have severe limitations that make them generally unsuited to cultivation and limit their use largely to pasture or range, woodland, or wildlife food and cover.
Class VII	Soils have very severe limitations that make them unsuited to cultivation and limit their use largely to grazing, woodland, or wildlife.
Class VIII	Soils and land forms have limitations that preclude their use for commercial plant production and restrict their use to recreation, wildlife, or water supply, or to aesthetic purposes.

TY 2013 USE-VALUE ESTIMATES

Table 1: Income Approach – Estimated use value of agricultural land in **Northampton** (\$ / Acre).

Land Class	Use Value	Use Value With
	Without Risk ⁴	Risk ⁴
I	2180	2070
II	1960	1870
III	1450	1380
IV	1160	1110
Avg. I – IV	2050	1950
V	870	830
VI	730	690
VII	440	410
Avg. V – VII	440	410
Avg. I – VII	2040	1950
VIII	150	140

 $^{^{4}}$ N.A. = not applicable

Table 2: Income Approach – Estimated use value of orchards in **Northampton (\$ / Acre)**.

Use Value of	Use Value of
Apple Orchard	Other Orchard
1390	1500
970	1110
470	600
180	310
130	230
130	220
40	100
150	150
	Apple Orchard 1390 970 470 180 130 40

Table 3: Rental Approach⁵ – Cropland and pastureland values based on NASS capitalized rental rates in **Northampton (\$** / **Acre)**.

Cropland	990
Irrigated Cropland	1280
Pastureland	430 ^{ep}

epEastern District (Pastureland)

Estimated Use Values of Agricultural Land and Horticultural Land in Northampton

Estimates apply to Tax Year 2013



November 15, 2012

State Land Evaluation and Advisory Council (SLEAC)

Virginia Department of Taxation

For additional information regarding methods and estimation procedures for agriculture and horticulture land use values see http://usevalue.agecon.vt.edu

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⁵For details see estimates at http://usevalue.agecon.vt.edu

USE VALUE TAXATION IN VIRGINIA¹

Virginia law allows for eligible land in agricultural, horticultural, forest, or open space use to be taxed at the value in use (use value) of the land as opposed to its market value. The State Land Evaluation and Advisory Council (SLEAC) was created in 1973 with the mandate to estimate the use value of eligible land for each jurisdiction participating in the use-value taxation program. SLEAC contracts annually with the Department of Agricultural and Applied Economics at Virginia Tech to develop an objective methodology for estimating the use value of land in agricultural and horticultural uses. A technical advisory committee, comprised of professionals familiar with Virginia agriculture, was established in 1998 to provide guidance on the technical aspects of developing an appropriate methodology. The members of SLEAC have officially sanctioned the use value estimates reported in this brochure.

ROLE OF THE SLEAC ESTIMATES

Section 58.1 - 3229 of the Code of Virginia requires each participating jurisdiction's assessment office to consider SLEAC estimates when assessing the use value of eligible land. However, the local assessing office is not requires to use SLEAC estimates verbatim.

Under certain circumstances, adjustments to SLFAC estimates may be necessary to accurately reflect the local conditions that affect the use values of eligible land parcels.

TY 2013 USE VALUE ESTIMATES: INCOME AND RENTAL RATE APPROACHES

Tables 1 and 2 list the estimated use values of agricultural and horticultural land using an income approach. These estimates are based on the capitalized net income that a bona-fide agricultural or horticultural enterprise located in the county could be expected to earn. These values are updated annually for public information. Note, the local assessing office can only make changes to assessed property values during a reassessment year.

Table 1 lists the estimated use value for land in agricultural use for each of the eight Soil Conservation Service land capability classifications. Because data on the land class composition of individual parcels is often unavailable, average use values have also been provided². The average of land in classes I - IV represents the average use value of cropland. The average of land in classes V - VII represents the average use value of pastureland. The average of the land in the classes of I - VII represents the average use value of pastureland. The average of the land in the classes of I - VII represents the average use value of pastureland.

The without risk estimates apply to land that is not at risk of flooding. The with risk estimates should only be applied to land parcels that are at risk of flooding due to poor drainage that cannot be remedied by tilling or drainage ditches.

Table 2 lists the estimated use value of land in orchard use. Values are reported for both apple orchards and "other" orchards for each of the eight Soil Conservation Service and capability classifications. "Other" orchard refers to peach, pear, cherry, or plum production. Data limitations prohibit the computation of the average use values for orchards.

Table 3 lists the estimated use values of cropland and pastureland using a rental rate approach. These use-values are based on capitalized rental rates obtained annually from the USDA National Agricultural Statistical Service (NASS). If there are sufficient numbers of responses to meet the NASS nondisclosure requirements for a jurisdiction then the value is published. However, if there are not enough responses in a jurisdiction to meet non-disclosure requirements, then all the non-disclosed jurisdictions within a crop reporting district are summarized and published as a Combined Counties (District) value.

Virginia Cooperative Extension

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¹ Information about Virginia's Use Value Assessment Program can be found at http://usevalue.agecon.vt.edu.

² Data limitations prohibited the computation of average use values in a few counties and in most independent cities and townships. ³ Note. Class VIII is not considered suitable for ag production and is therefore not included in this average.

Table 2: The composite farm and average net returns in Northampton

Annual net returns are determined through enterprise budgeting for crops that contributed one or more acres to the composite farm. The estimated net returns shown in the table below are "olympic" averages (1) for each crop in the composite farm for the proceeding 7 budget years. A budget year lags a given tax year by 2 years (e.g., tax year 2013 corresponds to the budget year 2011).

Additional information about these estimates can be found at Virginia's Use Value Assessment Program website, http://usevalue.agecon.vt.edu.

Average net returns applicable to tax-year 2013

	Total Acreage ²	Composite Farm (Acres) ³	Estimated Net Return (\$/Acre)
1. Number of Farms	151		
2. Corn	14,698	97	\$70.17
3. Alfalfa			<u></u>
4. Hay	114	1	\$0
5. Wheat	20,026	133	\$86.79
6. Barley			
7. Soybeans	31,071	206	\$62.12
8. Potatoes	2,488	16	\$1,198.34
9. Cotton	720	5	\$95.49
10. Pasture	1,205	8	\$10.71
11. Peanuts			
12. Tobacco		×'0'	
13. Snap Beans	3,241	21	\$0
14. Cucumbers	D	.0,	
15. Pumpkins	D		
16. Sweet Corn	171	1	\$4.55
17. Tomatoes	D		
18. Watermelons	12	0	\$0
19. Double-Cropped	20,026	133	
20. Total Cropland Harvested	53,720	355	\$144.52

Note

n.a. = Not Applicable

D = Withheld to avoid disclosing data of individual farms.

⁽¹⁾ In an Olympic average, the highest and lowest are dropped prior to calculating the arithmetic mean.

⁽²⁾ Data taken from the 2007 Census of Agriculture.

⁽³⁾ Some data do not add exactly due to rounding and some categories are not listed due to disclosure rules.

⁽⁴⁾ Corn acreage is corn-grain plus corn-silage acreages.

⁽⁵⁾ Hay acreage is (all hay + all haylage, grass silage, greenchop) - (alfalfa hay + haylage or greenchop from alfalfa or alfalfa mixtures).

⁽⁶⁾ Double-cropped acreage is subtracted from the crops listed to arrive at the total cropland harvest acreage.

⁽⁷⁾ Weighted average of crop estimated net returns by composite farm acreage.

Table 3: Worksheet for estimating the use value of agricultural land in Northampton

Additional information about these estimates can be found at Virginia's Use Value Assessment Program website, http://usevalue.agecon.vt.edu/.

Estimates are applicable to tax-year 2013

1. Estimated	net return	\$144.52	
2. Capitalizati	on rates		
	rate component ¹	0.0660	14
b) Property	tax component ²	0.0046	
c) Rate wit	hout risk	0.0705	(sum a and b)
d) Risk com		0.0035	(0.05 times 2c)
e) Rate wit	h risk ³	0.0741	(sum c and d)
3. Unadjusted	l Use Value	Without Risk ⁴ \$2,048.71	<u>With Risk⁵</u> \$1,951.15
4. Soil Index	Land Class	Crop Acreage (No Pasture Acreag	ge) ⁶ Productivity Index Weighted Acreage
	1	22,602	1.5 33,903
	II	26,121	1.35 35,263
	III	1,069	1 1,069
	IV	0	.8 0
	Total:	49,792	70,235

Soil Index Factor⁷: 1.4106

5. Agricultural use value adjusted by land class

Class	Land Index	Without Risk	Reported ⁸	With Risk	Reported ⁸
1	1.50	\$2,178.59	\$2,180	\$2,074.85	\$2,070
II	1.35	\$1,960.73	\$1,960	\$1,867.36	\$1,870
Ш	1.00	\$1,452.39	\$1,450	\$1,383.23	\$1,380
IV	0.80	\$1,161.91	\$1,160	\$1,106.59	\$1,110
V	0.60	\$871.44	\$870	\$829.94	\$830
VI	0.50	\$726.20	\$730	\$691.62	\$690
VII	0.30	\$435.72	\$440	\$414.97	\$410
VIII	0.10	\$145.24	\$150	\$138.32	\$140

¹ The 10-year average of the long-term interest rates charged by the various Agriculture Credit Associations serving the state.

The 10-year average of the effective true tax rates reported by the Virginia Department of Taxation.

Rate should only be used when the soil has poor drainage that is not remedied by tilling or drainage ditches or when the land lies in a floodplain.

 $^{^{4}}$ Estimated Net Return (Line 1) divided by Rate without risk (Line 2c).

⁵ Estimated Net Return (Line 1) divided by Rate with risk (Line 2e).

⁶ Data provided by the Virginia Conservation Needs Inventory (1967).

⁷ Index factor = (Total Weighted Acreage) / (Total Cropland Acreage).

⁸Rounded to the nearest \$10 and reported in Table 1a.

Table 5: Worksheet for estimating the use value of orchard land in Northampton

The estimated net returns assume a planting density of 135 trees per acre. Additional information about these estimates can be found at Virginia's Use Value Assessment Program website, http://usevalue.agecon.vt.edu/.

Estimates are applicable to tax-year 2013

1. Estimated net returns (loss) per acre applicable to tax-year TaxYear (see Table 4 for more detail).

	Age of Trees	Processed Fruit	Fresh Fruit
Pre-production	1-3 years	\$ (\$2,330.97)	\$ (\$2,519.99)
Early-production	4-6 years	\$ (\$307.12)	\$ (\$907.04)
Full-production	11-25 years	\$ (\$622.73)	\$ (\$3,445.36)
Late-production	26-30 years	\$ (\$625.39)	\$ (\$2,304.24)
	Discounted (20 Yr Cycle)	(\$10,897.78)	(\$28,128.75)
	Utilization of Sales (10 Yr Avg %)	74%	26%
	Apple Insurance (Annual Avg/acre)	\$54.47	13

2. Weighted Average Net Return Values

a)	2011	(\$15,274.96)
b)	2010	\$ (13,848.76)
c)	2009	\$ (8,748.31)
d)	2008	\$ 1,615.75
e)	2007	\$ (585.53)
f)	2006	\$ (1,390.19)
g)	2005	\$ (565.48)

3. Net Returns

a) Net return to "trees and land" (Olympic average of 2a thru 2g)² \$0.00 b) Net return attributable to "land only" (Class III)³ \$102.45 c) Net return attributable to "trees only" \$-102.45 (3a minus 3b

4. Capitalization Rate

4	
a) Interest Rate ⁴	0.0660
b) Property Tax ⁵	0.0046
c) Depreciation of Apple Trees ⁶	0.0333
d) Depreciation of "Other" Trees ⁷	0.0500
e) Apple Orchard Capitalization Rate	0.1038 (sum 5a, 5b, 5c)
f) "Other" Orchard Capitalization Rate	0.1038 (sum 5a, 5b, 5c) 0.1205 (sum 5a, 5b, 5d)

5. Use Value of Apple Orchard and "Other" Orchard

		APPLE ORCHARD		OTHER ORCHARD	
Class	Orchard Index ⁸	Apple Trees	Apple Trees and Land ⁹	Other Trees ⁹	Other Trees and Land ⁹
I	.80	\$-789.31	1,389.28	\$-679.96	\$1,498.63
II	1.00	\$-986.64	\$974.09	\$-849.95	\$1,110.78
III	1.00	\$-986.64	\$465.75	\$-849.95	\$602.44
IV	7.00	\$-986.64	\$175.28	\$-849.95	\$311.97
V	0.75	\$-739.98	\$131.46	\$-637.46	\$233.97
VI	0.60	\$-591.98	\$134.21	\$-509.97	\$216.23
VII	0.40	\$-394.66	\$41.06	\$-339.98	\$95.74
VIII	0.00	\$00	\$145.24	\$00	\$145.24

Average net return of the eight orchard categories listed in Section 1 of this table. The weights are provided by the percent of total trees represented by each category.

²In an olympic average, the highest and lowest values are dropped prior to calculating the arithmetic mean.

³This is determined by dividing the unadjusted net return value (Table 3, Line 1) by the soil index factor (Table 3, Section 4).

⁴The 10-year average of long term interest rates charged by the Virginia Department of Taxation.

⁵The 10-year average of the effective true tax rates charged by the Virginia Department of Taxation.

⁶The depreciation rate applicable to apple trees assumes that trees are replaced on a 30-year rotation.

⁷"Other" trees refer to peach, cherry, pear, and plum trees. The depreciation rate applicable to "other" trees assumes that trees are replaced on a 20-year rotation

⁸The orchard index is applicable only in determining the value of the trees. The land index (Table3, Section 5) is applied to land.

⁹The use value of trees and land is determined by adding the appropriate without-risk land-use-value (Table 3, Section 5) to the use value of the trees.