Appendix C. Prince Edward County Use-values

Questions regarding any statutorily related issues surrounding use-value assessment should be directed to Theresa Born at the Property Tax Unit, Virginia Department of Taxation. Questions regarding the *technical* aspects of the methodology for the agricultural or horticultural use-value estimates should be directed to Jennifer Friedel at the Department of Agricultural and Applied Economics, Virginia Tech. Questions about forest use-value estimates should be directed to Dean Cumbia at the Department of Forestry in Charlottesville. Questions about open space use-value estimates should be directed to Lisa McGee at the Department of Conservation and Recreation in Richmond.

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

Land Classs	Use Value Without	Use Value With
Luna Classs	Risk	Risk
I	450	430
II	400	380
III	300	280
IV	240	230
Avg. I-IV	350	330
V	180	170
VI	150	140
VII	90	90
Avg. V-VII	120	120
Avg. I-VII	310	290
VIII	30	30

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

Land Classs	Use Value of Apple Orchard	Use Value of Other Orchard
Ι	320	320
II	240	240
III	140	140
IV	80	80
V	60	60
VI	50	50
VII	30	30
VIII	30	30

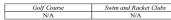
Table 3: Rental Rate Approach⁵ – Cropland and pastureland values based on NASS capitalized rental rates in Prince Edward or district value. (\$ (Acre)

Cropland	416
Irrigated Cropland	N/A
Pastureland	320
⁵ For details see Estimates at http:	//usevalue.agecon.vt.edu/

Table 4: Forest Values (\$/Acre) - Prince Edward

		Site Produc	tivity(\$/acre)	
	Fair	Good	Excellent	Non- Productive Land
N/A	N/A	N/A	N/A	N/A

Table 5: Open Space Recommended Values (\$/Acre) - Prince Edward



N/A = not applicaple to the county/city

Transfers <: Data used to estimate agricultural use values for a jurisdiction (counties/cities) may not be published or is insufficient. When this occurs, data from a nearby county is used. This process is referred to as transferring-in. Transferring-in is also used for jurisdictions with large areas of land lying in more than one physiographic region, for example coastal plain and an arrow < after the name.

Estimated Use Values For **Prince Edward**

Estimates apply to 2020



Advisory Council (SLEAC)

Contacts

Virginia Department of Taxation rginia Department of Taxation Theresa Born, Property Tax Unit, Virginia Dept. of Taxation, Richmond, VA 23218-0565 (804) 786- 4091 <u>Theresa.Born@tax.virginia.gov</u>

Agricultural/Horticultural Estimates Patrick Kayser, Virginia Land Use Analyst, Dept. of Agricultural and Applied Economics, Virginia Tech, Blackburg, VA 24061 (540) 231-4441 patrickk@vt.edu

Jennifer Friedel, Director Virginia Land Use-Value Assessment Program Virginia Tech, Blacksburg, VA 24061 (540) 231-4178 jfriedel@xt.edu

Forest Estimates

Dean Cumbia, Dept. of Forestry, 900 Natural Resources Drive, #800, Charlottesville, VA 22903 (434) 220-9024 Dean.Cumbia@dof.virginia.gov

Open Space Estimates

Lisa McGee, Director of Policy and Planning Virginia Department of Conservation and Recreation 600 E. Main Street 24th Floor, Richmond, VA 23219 Lisa.mcgee@dcr.virginia.go

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) as opposed to its market value.2 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 provides for the development of an objective methodology for estimating the use value of land in agricultural, horticultural, forest, and open space use. The members of SLEAC have officially sanctioned the use value estimates reported in this brochure.

Role of the SLEAC Estimates

Section 58.1-3229 (et seq.) 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 required to use SLEAC estimates verbatim.

Agricultural/Horticultural Estimates

Tables 1 & 2 list the estimated use values of agricultural and horticultural land using an income approach. These estimates are based on capitalized net income - from agricultural or horticultural enterprises in each participating county. These values are updated annually. Note, the local assessing office can only make changes to assessed property values during a reassessment year.

1 Information about Virginia's Use Value Assessment Program can be found at http://usevalue.agecon.vt.edu/ 2 A locality may adopt any combination of the four types of useTable 1 lists the estimated use value of land in agricultural use for each of the eight USDA Natural Resources Conservation Service (NRCS) land capability classifications.

For explanation of soil classifications see Procedures Manual on the use value website http://usevalue.agecon.vt.edu/. Because data on the land class composition of individual parcels is often unavailable, average use values have also been provided.3 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 land in classes I -VII represents the average use value of all agricultural land.4

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 NRCS land capability classifications. "Other" orchard refers to peach, pear, cherry, or plum production. 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 nondisclosure

requirements, then all the non-disclosed jurisdictions within a crop reporting district are summarized and published as a Combined Counties (District) value.

Forest Estimates

Table 4 lists, when appropriate, the estimated use values for forest land. For information pertaining to Forest land use taxation see

http://www.dof.virginia.gov/land/usetax/introduction.htm

Open Space Estimates

Table 5 lists, when appropriate, the estimated use values recommended for open space land. A locality may have values for golf courses or swim and racket clubs.

Participating agencies:

· Virginia Department of Taxation http://www.tax.virginia.gov/

· Virginia Department of Agricultural and Applied Economics

- http://www.aaec.vt.edu/ Virginia Department of Conservation and Recreation http://www.dcr.virginia.gov/
- Virginia Department of Forestry http://www.dof.virginia.gov



Virginia Tech • Virginia State University

value taxation.

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

www.ext.vt.edu

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 (see footnote 3) for each crop in the composite farm for the proceeding seven budget years. A budget year lags a given tax year by two years (e.g., tax year 2014 corresponds to the budget year 2012). Additional information about these estimates can be found on Virginia's Land Use-Value Assessment Program website at http://usevalue.agecon.vt.edu.

Commodity	Total Acreage ²	Composite Farm(Acres) ³	Estimated Net Return (\$/acre)
Alfalfa	581	2	\$98.73
Barley	(D)	_	—
Cabbage	(D)	—	—
Corn⁴	467	1	\$76.27
Cotton	—	—	—
Cucumbers	(Z)	—	—
Hay⁵	11,436	34	\$0.32
Lima Beans	—	—	—
Pasture	14,314	42	\$3.69
Peanuts	—	_	
Potatoes	3	_	_
Pumpkins	(D)	_	_
Snap Beans	(Z)	—	_
Sorghum		—	_
Soybeans	1,803	5	\$197.83
Sweet Corn	(D)	_	_
Tobacco	(D)	—	_
Tomatoes	1	—	—
Watermelons	1	_	_
Wheat	165	-	_
Double-Cropped ⁶	165	—	—
Total Cropland Harvested	28,606	84	

Appendix C, Table C-2. Composite farm and average net returns in Prince Edward County.

Net Return

\$17.69⁷

(D) = Withheld to avoid disclosing data of individual farms.

(Z) = Less than half of the unit shown.

— = Represents 0 or not reported/calculated.

Transfers (<): Data used to estimate agricultural use-values for jurisdictions (counties/cities) may not be published or is insufficient. When this occurs, data from a nearby county is used. This process is referred to as transferring in. Transferring in is also used for jurisdictions with large areas of land lying in more than one physiographic region, for example, the Coastal Plain and Piedmont regions. A transfer-in jurisdiction is noted by use of an arrow (<) after the name.

¹ Number of farms = 341. Data taken from the 2017 Census of Agriculture.

² Some data do not add exactly due to rounding, and some categories are not listed due to disclosure rules.

³ In an olympic average, the highest and lowest are dropped prior to calculating the arithmetic mean.

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

⁵ Hay acreage is (all hay + [all haylage, grass silage, and greenchop]) – (alfalfa hay + [haylage or greenchop from alfalfa or alfalfa mixtures]).

⁶ Double-cropped acreage is subtracted out to arrive at the total cropland harvest acreage.

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

Appendix C, Table C-3. Worksheet for estimating the use-value of agricultural land in Prince Edward County for tax year 2020.

\$291.70

Estimated net Return: \$17.69
 Capitalization Rates

 Interest Rate Component¹
 0.0531
 Property Tax Component²
 0.0047
 Rate Without Risk
 0.0578
 Risk Component
 0.0029
 Rate With Risk³
 0.0606
 Without Risk⁴
 With Risk⁵

\$306.29

3. Unadjusted Use Value

4. Soil index

Land Class	Crop Acreage (No Pasture)	Productivity Index	Weighted Acreage
I	1	1.50	1.00
П	19,016	1.35	25,671.69
III	9,082	1.00	9,081.70
IV	5,477	0.8	4,381.88
V	41	0.60	24.69
VI	3,872	0.50	1,936.17
VII	3,541	0.30	1,062.42
Total	41,031		42,159.42
Soil Index Fa	ctor: ⁷ 1.03		

5. Agricultural use-values adjusted by land class

Class	Index	Without Risk	Reported [®]	With Risk	Reported ⁸
I	1.50	\$447.13	\$450	\$425.84	\$430
П	1.35	\$402.41	\$400	\$383.25	\$380
III	1.00	\$298.08	\$300	\$283.89	\$280
IV	0.80	\$238.47	\$240	\$227.11	\$230
V	0.60	\$178.85	\$180	\$170.33	\$170
VI	0.50	\$149.04	\$150	\$ 141.95	\$140
VII	0.30	\$89.43	\$90	\$85.17	\$90
VIII	0.10	\$29.81	\$30	\$28.39	\$30

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

Transfers <: Data used to estimate agricultural use-values for a jurisdiction (counties/cities) may not be published or is insufficient. When this occurs, data from a nearby county is used. This process is referred to as transferring-in. Transferring-in is also used for jurisdictions with large areas of land lying in more than one physiographic region, for example coastal plain and piedmont regions. A transfer-in jurisdiction is noted by use of an arrow < after the name.

¹ The 7-year average of the long-term interest rates charged by the various agricultural credit associations serving the state.

² The 7-year average of the effective true tax rates reported by the Virginia Department of Taxation.

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 National Resources Conservation Service, USDA. https://websoilsurvey.nrcs.usda.gov/.

 7 $\,$ Index factor = (total weighted acreage) / (total cropland acreage).

 $^{\rm 8}$ $\,$ Rounded to the nearest \$10 and reported in Appendix B, Table 1a.

³ 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.

Editational constraints image imag	-	relacie costs, revenues, and neu inconne assuming a pianting density of 500+ trees per acte using uwan rootstock	וובבי הבו מרוב		ISIUCN.						
	Estimates apply to tax-year 2020										
Interfacio Safa fai bio Safa fai bio <th>Establishment Costs (applicable to both processed marl</th> <th>rket and fresh ma</th> <th>rket orchards)</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Establishment Costs (applicable to both processed marl	rket and fresh ma	rket orchards)								
Interfail 59:4.00 59:4.00 50:0.0 50	Land Clearing	\$451.86									
§ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Land Preparation (labor, machinery, material)	\$874.00									
S6.263.6 Free	Planting (labor, machinery, trees)	\$5,200.00									
Processed Markat Apple Production Fresh Markat Apple Production Pro- Early Full Late Pro- Early Full Late 13 Yrs 4.6 Yrs 7.15 Yrs 16.20 Yrs <td>Total Establishment Cost</td> <td>\$6,525.86</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Total Establishment Cost	\$6,525.86									
Pro. Early Full Late Pro. Early Full Late 13 Yrs 46 Yrs 7.15 Yrs 16.20 Yrs 1.3 Yrs 16.20 Yrs <t< td=""><td></td><td></td><td>Processed I</td><td>Market Apple I</td><td>Production</td><td></td><td></td><td>Fresh M</td><td>arket Apple Pro</td><td>duction</td><td></td></t<>			Processed I	Market Apple I	Production			Fresh M	arket Apple Pro	duction	
13 Yrs 44 Yrs 715 Yrs 16.20		Pre-	Early	Full	Late		Pre-	Early	Full	Late	
Nick Sint Sint Sint Sint Sint Sint Sint Sint		1-3 Yrs	4-6 Yrs	7-15 Yrs	16-20 Yrs	1	-3 Yrs	4-6 Yrs	7-15 Yrs	16-20 Yrs	
573.30 50.10 50.01 <t< td=""><td>Pre-Harvest Var Costs</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Pre-Harvest Var Costs										
(1) (2) <td>Fertilizer</td> <td>\$76.30</td> <td>\$69.18</td> <td>\$50.75</td> <td>\$53.95</td> <td></td> <td>\$76.30</td> <td>\$69.18</td> <td>\$75.52</td> <td>\$65.81</td> <td></td>	Fertilizer	\$76.30	\$69.18	\$50.75	\$53.95		\$76.30	\$69.18	\$75.52	\$65.81	
S204.16 546.20 871.2 77 801.2 77 801.2 77 801.6 816.00 <t< td=""><td>Lime</td><td>\$0.00</td><td>\$0.00</td><td>\$0.00</td><td>\$0.00</td><td></td><td>\$0.00</td><td>\$0.00</td><td>\$0.00</td><td>\$0.00</td><td></td></t<>	Lime	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	
(5) (5) <td>Pesticides</td> <td>\$204.16</td> <td>\$456.20</td> <td>\$912.77</td> <td>\$912.77</td> <td></td> <td>\$206.19</td> <td>\$772.35</td> <td>\$1,146.78</td> <td>\$1,146.78</td> <td></td>	Pesticides	\$204.16	\$456.20	\$912.77	\$912.77		\$206.19	\$772.35	\$1,146.78	\$1,146.78	
S15.00 S15.00 <ths15.00< th=""> <ths15.00< th=""> <ths15.00< td="" th<=""><td>Bee Rental</td><td>\$0.00</td><td>\$16.00</td><td>\$16.00</td><td>\$16.00</td><td></td><td>\$16.00</td><td>\$16.00</td><td>\$16.00</td><td>\$16.00</td><td></td></ths15.00<></ths15.00<></ths15.00<>	Bee Rental	\$0.00	\$16.00	\$16.00	\$16.00		\$16.00	\$16.00	\$16.00	\$16.00	
(1) (2) <td>Pest Control</td> <td>\$15.00</td> <td>\$15.00</td> <td>\$15.00</td> <td>\$15.00</td> <td></td> <td>\$15.00</td> <td>\$15.00</td> <td>\$15.00</td> <td>\$15.00</td> <td></td>	Pest Control	\$15.00	\$15.00	\$15.00	\$15.00		\$15.00	\$15.00	\$15.00	\$15.00	
811.63 \$14.2.76 \$2.37.93 \$2.37.93 \$2.37.93 \$2.37.93 \$5.96.47 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$55.129 \$57.34 \$55.139 \$57.34 \$55.139 \$57.34 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$55.3450 \$57.366 \$57.366 \$57.366 \$57.366 \$57.366 \$57.366 \$57.369 \$57.175.51 \$57.17561 \$	Mulch	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	
(m) (m) <td>Pruning</td> <td>\$11.83</td> <td>\$142.76</td> <td>\$237.93</td> <td>\$237.93</td> <td></td> <td>\$199.18</td> <td>\$398.48</td> <td>\$664.12</td> <td>\$531.29</td> <td></td>	Pruning	\$11.83	\$142.76	\$237.93	\$237.93		\$199.18	\$398.48	\$664.12	\$531.29	
(1) \$10.20 \$9.06 \$7.94 \$6.81 \$10.20 \$9.06 \$7.94 \$6.81 maintenance) \$66.60 \$713.00 \$12.30 \$51.40 \$50.00	Hand Thinning	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$257.91	\$515.82	\$386.87	
(minumuce) 566.66 \$12.33 \$12.33 \$12.33 \$12.33 \$12.33 \$12.33 \$12.33 \$12.33 \$12.33 \$12	Supplies (replace lost wrenches, etc.)	\$10.20	\$9.06	\$7.94	\$6.81		\$10.20	\$9.06	\$7.94	\$6.81	
maintenance) 5564.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5534.50 5778.96 5778.93 5779.33 5719.33 5719.33 5719.33 5719.33 5719.33 5719.33 5719.33 579.93 579.93 579.93 579.93 579.93 579.93 579.93 579.93 579.93 579.93 579.93 579.93 579.93 579.93	Miscelaneous	\$56.66	\$12.36	\$12.36	\$12.36		\$56.68	\$12.36	\$12.36	\$12.36	
\$122.1 \$178.96 \$778.93 \$50.00 \$50.01 <th< td=""><td>Variable Machinery Cost (fuel, oil, & maintenance)</td><td>\$56.72</td><td>\$534.50</td><td>\$534.50</td><td>\$534.50</td><td></td><td>\$141.80</td><td>\$534.50</td><td>\$534.50</td><td>\$534.50</td><td></td></th<>	Variable Machinery Cost (fuel, oil, & maintenance)	\$56.72	\$534.50	\$534.50	\$534.50		\$141.80	\$534.50	\$534.50	\$534.50	
\$50.00 \$0.00 <t< td=""><td>Permanent Labor</td><td>\$128.21</td><td>\$415.17</td><td>\$778.96</td><td>\$778.96</td><td></td><td>\$256.41</td><td>\$518.96</td><td>\$778.96</td><td>\$778.96</td><td></td></t<>	Permanent Labor	\$128.21	\$415.17	\$778.96	\$778.96		\$256.41	\$518.96	\$778.96	\$778.96	
Maintenance) \$50.28 \$197.33 \$970.31	Insurance	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	
(11751) \$30.28 \$197.33 \$970.31 \$970.31 \$970.31 \$970.31 \$970.31 \$970.31 \$970.31 \$970.31 \$970.31 \$970.31 \$970.33 \$179.33 \$1175.51 \$1,117.51 \$1,											
530.28 \$177.31 \$970.31 \$970.31 \$970.31 \$970.31 \$970.31 \$171.51 \$210.60 \$200.03 \$210.20 \$217.61 <th< td=""><td>Harvest Var Costs</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>-</td><td></td></th<>	Harvest Var Costs							1	1	-	
Indirenance) 552.07 \$179.33 \$170.31 \$171.31 \$171.31 \$170.31	Harvest Labor	\$30.28	\$197.33	\$970.31	\$970.31		\$69.56	\$455.35	\$1,117.51	\$1,117.51	
Inckenage Fee \$50.00 \$50.00 \$50.00 \$50.00 \$50.00 \$53.306.08 \$53.306.08 \$53.306.08 \$53.306.08 \$53.306.08 \$53.306.08 \$53.306.08 \$53.306.08 \$53.700 \$3,173.17 \$2,106.35 \$3,880.00 \$3,800.07 \$3,550.70 \$3,740.31 \$9,323.33 \$8,097.30 Sobid Revenue \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$566.68 \$567.70 \$5,740.31 \$9,323.33 \$50.03 Sobid Revenue \$233.416 \$4,257.69 \$4,259.93 \$2384.06 \$29.22 \$745.87 \$647.78 Sobid Revenue \$3,493.71 \$2,334.16 \$4,259.93 \$3,901.44 \$4,106.21 \$10,135.88 \$8,811.76 Sobid Revenue \$3,493.71 \$2,458 \$6,104 \$3,901.44 \$4,106.21 \$10,135.88 \$8,11.76 Sobid Revenue \$1,541 18,436 \$24,648 \$1,541 \$3,034 \$50,3	Variable Machinery Cost (fuel, oil, & maintenance)	\$52.07	\$179.33	\$179.33	\$179.33		\$52.07	\$179.33	\$179.33	\$179.33	
Costs (AVG/Cycle) \$3,740.31 \$2,106.95 \$3,880.00 \$3,880.07 \$3,550.70 \$3,740.31 \$9,323.33 \$6,097.30 Sold (Cycle) \$66.68 \$58.65 \$58.65 \$58.65 \$58.65 \$66.68 <td>Storage, Packing, Transportaion, & Brokerage Fee</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$0.00</td> <td></td> <td>\$215.14</td> <td>\$1,843.47</td> <td>\$4,259.49</td> <td>\$3,306.08</td> <td></td>	Storage, Packing, Transportaion, & Brokerage Fee	\$0.00	\$0.00	\$0.00	\$0.00		\$215.14	\$1,843.47	\$4,259.49	\$3,306.08	
\$566.68 \$588.65 \$58.65 \$58.65 \$58.65 \$58.65 \$566.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.68 \$66.78 \$66.68 \$66.68 \$66.73 \$647.78 \$ \$255.365 \$168.56 \$311.04 \$311.21 \$234.06 \$229.22 \$745.87 \$647.78 \$ \$24.648 \$4,259.93 \$4,259.93 \$4,106.21 \$10,135.88 \$6,41.76 \$ \$20.12 \$5,343.71 \$2,334.16 \$4,259.93 \$3,901.44 \$4,106.21 \$10,135.88 \$6,34.83 \$	Total Var Costs (AVG/Cycle)	\$3,173.17	\$2,106.95	\$3,888.00	\$3,890.07		\$3,550.70	\$3,740.31	\$9,323.33	\$8,097.30	
\$253.85 \$168.56 \$311.04 \$311.21 \$284.06 \$299.22 \$745.87 \$647.78 d & Variable Costs \$3,493.71 \$2,334.16 \$4,259.93 \$4,259.93 \$3,901.44 \$10,135.88 \$8,811.76 I & Variable Costs \$3,493.71 \$2,334.16 \$4,259.93 \$4,259.93 \$3,901.44 \$4,106.21 \$10,135.88 \$8,811.76 I & Variable Costs \$3,493.71 \$2,334.16 \$4,259.93 \$4,259.93 \$3,901.44 \$4,106.21 \$10,135.88 \$8,811.76 I & Variable Costs \$3,493.71 \$2,548 \$4,06.59 \$4,648 \$24	Fixed Machinery Costs	\$66.68	\$58.65	\$58.65	\$58.65		\$66.68	\$66.68	\$66.68	\$66.68	
Total Fixed & Variable Costs \$3,493.71 \$2,334.16 \$4,257.69 \$4,106.21 \$10,135.88 \$8,81.176 \$ ************************************	General Overhead (8%) (AVG/Cycle)	\$253.85	\$168.56	\$311.04	\$311.21		\$284.06	\$299.22	\$745.87	\$647.78	
(b) 1,541 18,486 24,648 24,648 1,541 18,486 24,648	Total Fixed & Variable Costs	\$3.493.71	\$2.334.16	\$4.257.69	\$4.259.93		\$3.901.44	\$4.106.21	\$10.135.88	\$8.811.76	
(5/LB) 1.541 18,486 24,648 23,034 50.34											
1.541 1.541 18.466 24.648 24.641 26.34 \$0.34	Gross Receipts						1	1	1		
Total Revenue \$190.39 \$2,284.68 \$3,046.24 \$3,046.24 \$3,046.24 \$0.34 \$6,304.34 \$6,306.59 \$6,406.59 ss/Income (A VG/Cycle) (\$3,303.34) (\$668.73) (\$1,211.45) (\$1,213.69) (\$3,376.09) \$574.61 (\$1,729.29) (\$405.17)	Yield (LBS/Acre)	1,541	18,486	24,648	24,648		1,541	18,486	24,648	24,648	
Revenue \$190.39 \$2,284.68 \$3,046.24 \$3,046.24 \$3,046.24 \$3,046.59 \$6,304.94 \$8,406.59 \$6,406.59 \$6,406.59 \$6,500.50 \$6,303.34 \$6,668.73 \$6,1213.69 \$6,3,376.09 \$574.61 \$1,729.29 \$405.17 \$6,505.17 \$6,500.51 \$6,		\$0. IZ	\$0.1Z	\$0.1Z	\$0. IZ		40.0¢	\$0.04	40.0¢	40.0¢	
(\$3,303.34) (\$668.73) (\$1,211.45) (\$1,213.69) (\$5,376.09) \$574.61 (\$1,729.29) (\$405.17)	Total Revenue	\$190.39	\$2,284.68	\$3,046.24	\$3,046.24		\$525.41	\$6,304.94	\$8,406.59	\$8,406.59	
	Annual Net Loss/Income (AVG/Cycle)	(\$3,303.34)	(\$668.73)	(\$1,211.45)	(\$1,213.69)		\$3,376.09)	\$574.61	(\$1,729.29)	(\$405.17)	
											100 101 -101

Appendix C, Table C-5. Worksheet for estimating the use-value of orchard land in Prince Edward County. 1. Estimated net returns (loss) per acre

Age of trees	Processed fruit	Fresh fruit
1-3 years	-\$3,303.34	-\$3,376.09
4-б years	-\$668.73	\$574.61
7-15 years	-\$1,211.45	-\$1,729.29
16-20 years	-\$1,213.69	\$405.17
Discounted (20-year cycle)	-\$18,694.76	-\$17,191.66
Use of sales (10-year avg %)	66%	34%
Apple insurance (annual avg/acre)	\$775.95	

2. Weighted average net return values

TY2020 ¹	TY2019	TY2018	TY2017	TY2016	TY2015	TY2014
-\$17,402.52	-\$18,617.27	-\$19,377.40	-\$18,616.25	-\$19,677.43	-\$3,403.09	-\$7,533.62

3. Net returns

a. Net return to "trees and land" (olympic average of lines 2a through 2g) ²	\$0.00
b. Net return attributable to "land only" (Class III) ³	\$17.22
c. Net return attributable to "trees only"	-\$17.22
Capitalization rate	
a Interest rates 0.0531	

4. Ca

a. Interest rate⁴	0.0531
b. Property tax⁵	0.0047
c. Depreciation of apple trees ⁶	0.0500
d. Depreciation of "other" trees ⁷	0.0500
e. Apple orchard capitalization rate	0.1078
f. "Other" orchard capitalization rate	0.1078

5. Use-value of apple orchard and "other" orchard

Class	Orchard Index [®]	Apple Trees	Apple Trees and Land [®]	Other Trees ⁹	Other trees and Land ⁹
I	0.8	-\$127.82	\$319.31	-\$127.82	\$319.31
П	1.0	-\$159.77	\$242.64	-\$159.77	\$242.64
	1.0	-\$159.77	\$138.31	-\$159.77	\$138.31
IV	1.0	-\$159.77	\$78.69	-\$159.77	\$78.69
V	0.8	-\$119.83	\$59.02	-\$119.83	\$59.02
VI	0.6	-\$95.86	\$53.18	-\$95.86	\$53.18
VII	0.4	-\$63.91	\$25.52	-\$63.91	\$25.52
VIII	0.0	\$0.00	\$29.81	\$0.00	\$29.61

Note: The estimated net returns assume a planting density of 135 trees per acre. Additional information about these estimates can be found at Virginia's Land Use-Value Assessment Program website, http://usevalue.agecon.vt.edu/. Estimates are applicable to tax year 2020.

Transfers (<): Data used to estimate agricultural use-values for a jurisdiction (counties/cities) may not be published or is insufficient. When this occurs, data from a nearby county is used. This process is referred to as transferring in. Transferring in is also used for jurisdictions with large areas of land lying in more than one physiographic region, for example, the Coastal Plain and Piedmont regions. A transfer-in jurisdiction is noted by use of an arrow (<) after the name.

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

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

³ This is determined by dividing the unadjusted net return value (Table C-3, line 3) by the soil index factor (Table C-3, section 4).

⁴ The 7-year average of long-term interest rates charged by the various agricultural credit associations serving the state.

⁵ The 7-year average of the effective true tax rates charged by the Virginia Department of Taxation.

⁶ The depreciation rate applicable to apple trees assumes that trees are replaced on a 20-year rotation.

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

⁸ The orchard index is applicable only in determining the value of the trees. The land index (Appendix C, Table C-3) is applied to land.

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