

WEST VIRGINIA
SECRETARY OF STATE
KEN HECHLER
ADMINISTRATIVE LAW DIVISION

Form #2

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1990 OCT -1 AM 8 44
OFFICE OF WEST VIRGINIA
SECRETARY OF STATE

NOTICE OF A COMMENT PERIOD ON A PROPOSED RULE

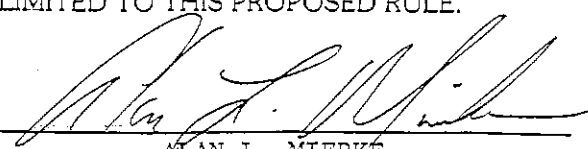
AGENCY: STATE TAX DIVISION TITLE NUMBER: 110
RULE TYPE: LEGISLATIVE; CITE AUTHORITY W.VA. CODE § 11-1C-5(a)(2)(B)
AMENDMENT TO AN EXISTING RULE: YES NO

IF YES, SERIES NUMBER OF RULE BEING AMENDED: _____
TITLE OF RULE BEING AMENDED: _____

IF NO, SERIES NUMBER OF NEW RULE BEING PROPOSED: 1H
TITLE OF RULE BEING PROPOSED: VALUATION OF TIMBERLAND AND
MANAGED TIMBERLAND

IN LIEU OF A PUBLIC HEARING, A COMMENT PERIOD HAS BEEN ESTABLISHED DURING WHICH ANY INTERESTED PERSON MAY SEND COMMENTS CONCERNING THESE PROPOSED RULES. THIS COMMENT PERIOD WILL END ON OCTOBER 31, 1990 AT 5:00 P.M.
ONLY WRITTEN COMMENTS WILL BE ACCEPTED AND ARE TO BE MAILED TO THE FOLLOWING ADDRESS.

LEGAL DIVISION
DEPARTMENT OF TAX AND REVENUE
P. O. DRAWER 1005
CHARLESTON, WV 25324-1005

THE ISSUES TO BE HEARD SHALL BE LIMITED TO THIS PROPOSED RULE.

ALAN L. MIERKE
ACTING STATE TAX COMMISSIONER

ATTACH A BRIEF SUMMARY OF YOUR PROPOSAL

FILED

PROPOSED
WEST VIRGINIA LEGISLATIVE REGULATIONS
STATE TAX DIVISION

1990 OCT -1 AM 9:44

OFFICE OF WEST VIRGINIA
SPECIAL SERVICES

TITLE 110
SERIES 1H
1990

VALUATION OF TIMBERLAND AND MANAGED TIMBERLAND

Filed: October 1, 1990

§ 110-1H-1. General.

1.1 These regulations are legislative regulations as defined in W. Va. Code § 29A-3-1 et seq.

1.2 Scope. - These legislative regulations establish the procedure for the classification and valuation of timberland and managed timberland

1.3 Authority. - W. Va. Code § 11-1C-5(a)(2)(B).

1.4 Filing Date. - October 1, 1990.

1.5 Effective Date. - These legislative regulations are effective upon being authorized by the Legislature.

1.6 Citation. - These legislative regulations may be cited as 110 C.S.R. 1H, § _____ (1990).

§ 110-1H-2. Introduction.

2.1 The appraised value of managed timberland shall be determined on the basis of the potential of the timberland to produce future net income. Potential future net income is capitalized in order to determine a present value, which is the appraised value. The ability of a stand of timber to produce wood products for sale or use depends primarily on the quality of the soil and certain topographic and climatic features, and is expressed as site index. Site index is therefore the principal criterion, influencing the appraised value of managed timberland. These factors will be reviewed annually by the Tax Commissioner for necessary updating of the method described in order to properly reflect future changes in the market values of managed timberland.

2.2 The appraised value of timberland shall be determined on the basis of market comparables derived through analysis of sales prices of comparable timberland properties, but in no instance shall be less than the appraised value of similar properties being utilized as managed timberland in the region.

§ 110-1H-3. Definitions. As used in this regulation and unless the context clearly requires a different meaning, the following terms shall have the meanings ascribed herein, and shall apply in the singular or in the plural.

3.1 "Average Annual Gross Income" means the gross income per acre calculated by dividing the end-of-rotation income by eighty (80) years.

3.2 "Average Annual Net Income" means the average annual gross income per acre minus the annual management cost per acre.

3.3 "Capitalization rate" means the rate used to convert an estimate of income into an estimate of value. Details of the procedure for determining the capitalization rate are found in Section 110-1H-8 of these regulations.

3.4 "End-of-rotation income potential" means the amount of income per acre calculated by multiplying the end-of-rotation volume by the present stumpage price.

3.5 "Gross income" means the end-of-rotation (eighty (80) years) gross income potential determined for each productivity class using the following formula: Yield (MBF and/or Cords Per Acre) x Present Stumpage Price = Gross Income.

3.6 "Management cost" means the cost determined annually by the Tax Commissioner to be the average annual cost of maintaining and protecting a producing forest. Maintenance costs may include costs of inventory, boundary survey, security, maps, and any other items as can be shown to have been necessary costs. Protection costs may include costs of protection against forest fires; harmful insect and tree diseases; costs of repair and replacement due to vandalism as reported to appropriate police agencies, including all-terrain vehicles (ATV's) and other vehicular damages and costs of replacing and replanting forest reproduction and plantations destroyed or injured by deer or other wild animals whose populations exceed the maximum carrying capacity of the site. Management costs will be determined as an average for the entire State or by regions, or by Managed Timberlands Productivity Grades and will be deducted from gross annual income per acre to obtain net annual income per acre.

3.7 "Managed Timberland" means surface real property, except farm woodlots, of not less than ten contiguous acres which is devoted primarily to forest use and which has existent on it and well distributed, commercially valuable tree species of any size sufficient to comprise at least forty percent (40%) normal stocking of forest trees as shown by the following Table One and that is managed pursuant to a plan provided for in Section 110-1H-9, Valuation Application, of the Regulations. Land devoted to forest use that has been recently harvested of merchantable timber and thus is being regenerated into a new forest shall be eligible. To be qualified, the land must be growing a commercial forest crop that is physically accessible for harvesting when mature.

Table 1
 Minimum Number of Trees Required Per Acre to Determine
 30 Square Feet of Tree Basal Area of 40%
 Stocking for Classification as Forest Land

D.B.H. Range	D.B.H. in 2" Classes	Basal Area Per Tree	Per Acre	Per 1/5 Acre	Per 1/10 Acre
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up to 2.9".....	Seedlings		400	80	40
3.0-4.9".....	4	0.0873	400	80	40
5.0-6.9".....	6	0.1964	153	31	15
7.0-8.9".....	8	0.3491	86	17	9
9.0-10.9".....	10	0.5454	55	11	6
11.0-12.9".....	12	0.7854	38	8	4
13.0-14.9".....	14	1.0690	28	6	3
15.0" +	16 +	1.3963	21	4	2

- NOTE:
- (a) Area 1/5 acre, circle, diameter 105'4"; square 93.4" per side
 - (b) Area 1/10 acre; circle, diameter 74'6"; square 66'
 - (c) Number of seedlings present may qualify on a percentage basis; Example, 100 seedlings would be equivalent of 7.5 square feet of basal area (25% x 30 = 7.5)
 - (d) Seedlings per acre are based on total pine and hardwood stems. Where intensive pine management is practiced a minimum of 250 well distributed loblolly or white pine seedlings will qualify.

3.8 "Owner of Timber" means any person who owns an interest in timberland, including a sublessor and an owner of a contract right to cut timber. Such owners of timber must have a right to cut timber for sale on his own account for use in his, hers, or its trade or business in order to have property rights that are subject to ad valorem property taxes.

3.9 "Site Index" means a method of measuring the productivity of a site to grow trees. It is the height that average dominant and codominant trees will attain at a given age. For ad valorem property tax purposes, it shall be the height of upland oaks at fifty (50) years of age.

3.10 "Stumpage Price" means the market value of standing trees (on the stump) prior to felling and removal, and is expressed in dollars per unit of volume (MBF or cords). For appraisal purposes, real stumpage price will be assumed to be stable over time, and shall be calculated by the Tax Commissioner from reports based upon 16 inch logs as prepared by the Division of Forestry, Department of Commerce, Labor, and Environmental Resources and other available sources. A five-year moving average shall be computed in order to minimize the effects of short-term fluctuations. Stumpage prices shall be computed for each stumpage price region in order to reflect regional differences in markets, topography, and accessibility.

3.11 "Stumpage Price Region" means a geographical region of the State, usually consisting of several counties, in which conditions of the timber, timber markets, topography, and accessibility are sufficiently similar to result in similar stumpage prices at any one point in time. The counties involved in each stumpage price region have been identified by the Division of Forestry, Department of Commerce, Labor, and Environmental Resources as follows:

<u>Region 1</u>	<u>Region 2</u>	<u>Region 3</u>	<u>Region 4</u>	<u>Region 5</u>
Brooke	Braxton	Barbour	Berkeley	Boone

Cabell	Calhoun	Greenbrier	Grant	Fayette
Hancock	Clay	Monroe	Hampshire	Kanawha
Jackson	Doddridge	Nicholas	Hardy	Lincoln
Marshall	Gilmer	Pendleton	Jefferson	Logan
Mason	Harrison	Pocahontas	Mineral	McDowell
Ohio	Lewis	Preston	Morgan	Mercer
Pleasants	Marion	Randolph		Mingo
Putnam	Monongalia	Tucker		Raleigh
Tyler	Ritchie	Upshur		Summers
Wetzel	Roane	Webster		Wayne
Wood	Taylor			Wyoming
	Wirt			

3.12 "Timber" means and includes trees of any marketable species, whether planted or of natural growth, standing or down, located on public or privately owned land, which are suitable for commercial or industrial use.

3.13 "Timberland" means any surface real property, except farm woodlots of not less than ten contiguous acres, which is primarily in forest and which has existent on it and well distributed commercially valuable tree species of any size sufficient to comprise at least forty percent (40%) normal stocking of forest trees, as shown by Table One. Land that has been recently harvested of merchantable timber and is growing into or being planted as a new forest shall be eligible.

3.14 "Managed Timberland Productivity Grades" means timberland classified as Grade 1 (excellent to very good), Grade 2 (good to fair), or Grade 3 (poor), according to Site Index.

Table of
 Timberland Productivity Grades

Timberland Productivity Grade	Site Index	Yield Per Acre over 80 Years	
		MBF	Cords
Grade 1 (Excellent to very good)	80 (75 or more)	14.5	10.5
Grade 2 (Good to Fair)	70 (65 - 74)	9.7	14.9
Grade 3 (Poor)	50 (less than 65)	4.5	18.5

* Scribner rule. Source: Schnur, G. Luther. USDA Tech. Bul. No. 560. 1937. The Tax Commissioner may annually adopt a different timber scale and to revise yield annually as standards of timber utilization change or as new information becomes available on timber yields of forest stands.

3.15 "Managed Timberland Productivity Maps" means those maps prepared showing the productivity class of all timberland in this State. The primary source of information for preparation of these maps shall be the Soil Survey,

published by United States Department of Agriculture (USDA) Soil Conservation Service.

3.15.1 In those counties where soil surveys are not yet prepared, the best available information shall be used.

3.15.2 For Webster and Pocahontas Counties: G.R. Trimble, Jr., "An Equation for Predicting Oak Site Index Without Measuring Soil Depth", Journal of Forestry, 62:325-327 shall be used.

3.15.3 For Wetzel, Doddridge, Braxton, Clay, and Gilmer Counties: L. R. Auchmoody and H. Clay Smith, Oak Soil-Site Relationships in Northern West Virginia. (USDA For. Serv. Res. Paper NE 434, 1979) shall be used.

3.15.4 For Wayne, Lincoln, Boone, Logan, Mingo, and McDowell Counties: Unpublished results of research at West Virginia University (1983) shall be used.

§ 110-1H-4. Managed Timber Productivity Maps. - Timber productivity maps indicating the Managed Timberland Productivity Grade of soils as Excellent to Very Good, Good to Fair, and Poor will be available for review at each county assessor's office and can be purchased from the Department of Tax and Revenue. These maps will be reviewed and updated periodically.

§ 110-1H-5. Managed Timber Productivity Grades. - Managed Timber productivity grades shall be based on site index and the ability of the site to yield timber, measured in thousands of board feet (MBF) per acre (Scribner rule) or cords per acre at the end of a rotation of eighty (80) years.

§ 110-1H-6. Appraised Value of Managed Timberland. - The appraised value per acre of managed timberland shall be calculated by dividing average annual net income by the capitalization rate. However, the appraised value for any grade of managed timberland will not be less than \$25 per acre.

§ 110-1H-7. Procedure for Determining Value of Managed Timberland. - The following is a step-by-step procedure for determining the appraised value of managed timberland.

7.1 All managed timberland is mapped according to productivity grade (See (e)(15)0 on USCS 7.5 minutes quadrangle sheets (1" = 2000')). The West Virginia surface maps are then reduced from a scale of 1" = 400' to 1" = 2000' in order to conform to the scale of the timberland productivity maps.

7.2 Average stumpage price (5 year moving average) is determined by stumpage price reports from the Division of Forestry, Department of Commerce, Labor, and Environmental Resources, and other available sources.

7.3 End-of-rotation (80 years) gross income potential per acre is determined for each productivity grade using the following formula: Average yield (MBF and/or cords per acre) x present average stumpage price = gross income.

7.4 Annual gross income potential per acre is determined using the following formula: Gross income potential per acre \div 80 years = annual gross income potential per acre.

7.5 Annual net income potential per acre is determined by deducting the annual management cost per acre from annual gross income potential per acre.

7.6 Value per acre is determined by capitalizing the net annual income per acre.

7.7 A table is prepared showing value of timberland by productivity grade.

7.8 Mylar maps, or an index, are prepared showing tax parcels and timberland productivity grade.

7.9 The appraised value of the property is calculated using the maps and table of managed timberland values.

7.9.1 If a parcel contains acreage in more than one managed timberland grade and/or in other property descriptions, total parcel value will be determined on the basis of the acreages classifications. For example, a 100 acre parcel has the following characteristics:

- 1 Acre in Homesite
- 9 Acres in Pasture
- 5 Acres in Timberland (not accessible)
- 30 Acres in Managed Timberland Grade 1
- 40 Acres in Managed Timberland Grade 2
- 15 Acres in Managed Timberland Grade 3
- 100 Acres

Appraisal of Land =

1 Acre Homesite	X	Homesite Value
+ 9 Acres Pasture	X	Pasture Value
+ 5 Acres Timberland	X	Woodland Value (<u>Assessor Assigned Rates</u>)
+ 30 Acres Managed Timberland	X	Grade 1 Value
+ 40 Acres Managed Timberland	X	Grade 2 Value
+ 15 Acres Managed Timberland	X	Grade 3 Value

§ 110-1H-8 Capitalization Rate. - A single statewide capitalization rate for timberland will be determined annually by the Tax Commissioner through the use of generally accepted methods of determining such rates. The rate will be based on the assumption of a level, non-inflating perpetual income series. The capitalization rate used to value managed timberland will be developed considering (1) a discount rate determined by the summation technique, and (2) a property tax component.

8.1 Discount Component. - The summation technique will be used in developing a discount component of the capitalization rate. The five subcomponents of the discount rate are:

8.1.1 Safe Rate. - The safe rate will reflect a rate of return that an investor could expect on an investment of minimal risk. It will be developed through review of interest rates offered on thirty-year United States Treasury Bills for a period of five years prior to the appraisal date.

8.1.2 Illiquidity Rate. - The illiquidity rate will be developed through an annual survey to determine a reasonable estimate of time that timberland when put up for sale, remains on the market before being sold. The time thus determined will be used to identify United States Treasury Bills with similar time differentials in excess of thirteen-week Treasury Bills. The interest differential between these securities will be used to represent the illiquidity rate. For example, if it is determined that a tract of timberland remains on the market for an average of six months (26 weeks) before being sold, the illiquidity rate will be derived by taking the rate on 26-week Treasury Bills minus the rate on 13-week Treasury Bills.

8.1.3 Risk Rate. - The relative degree risk of an investment in timberland is difficult to determine from published interest rates. Since farm investments closely approximate timberland investments in terms of risk, the risk rate for timberland will be developed from an annual survey of interest rates on loans for acquisition and/or development of timberland in conjunction with farmland. The survey will cover a five-year period prior to the appraisal date. Results of the survey will be compared to interest rates offered on thirty-year United States Treasury Bills for the same five-year period. The difference between the two combined with bands of investment analysis will be used as a basis to estimate the risk rate.

8.1.4 Management Rate. - The management rate represents the cost of managing the investment, not the cost of managing the timberland. The management rate will be developed through a survey of investment firms to identify annual charges for the management of investment portfolios.

8.1.5 Inflation Rate (negative). - Nominal interest rates, including the "safe rate" mentioned above, are higher than real rates by an amount representing expectation of future inflation. However, net annual income from timberland is to be estimated assuming level future prices (no inflation). Therefore, the capitalization rate must be a real rate, net of expectation of inflation.

8.1.6 In determining the discount component of the capitalization rate, the Tax Commissioner will take the sum of the safe rate, the illiquidity rate, the risk rate, and the management rate, and will deduct from this sum the inflation rate.

8.2 Property Tax Component. - The property tax component will be derived by multiplying the assessment rate by the statewide average of tax rates on Class III property. The property tax component will be added to the discount rate component to determine the capitalization rate for the managed timberland valuation.

§ 110-1H-9 Valuation Application. - In order to qualify under the provisions of this rule for managed timberland valuation purposes, the owner(s) of the timberland must on or before the first day of July enter into a contract with

the Division of Forestry, West Virginia Department of Commerce, Labor, and Environmental Resources and will state that the real estate is being used in a planned program of timber management and erosion control practices intended to enhance the growth of commercially desirable species through generally accepted silvicultural practices and the use of Best Management Practices; as specified in the West Virginia Forest Practice Standards and the West Virginia Nonpoint Source Management Program. This contract shall be assigned with the sale of the land when the land is sold to be used for managed timberland. On or before September 1, the owner(s) will certify, by notarized document, (a) a commitment to maintain and protect timberland certified as managed timberland, by documenting land-use objectives to include resource management and soil and water protection; or (b) by submitting a plan prepared by a professional forester and attesting to follow it. In either event, the following information shall be provided:

9.1 County, district, map, parcel number, and deed book acreage and actual surveyed acreage, if available, for each parcel that is to be valued as managed timberland.

9.2 The amount of acreage in each parcel that should be classified as managed timberland. For those properties where managed timberland acreage is different than deed acreage, a map identifying location of timberland acreage is required.

9.3 Signature from timber management forester acknowledging that the property is being managed in accordance with the Best Management Practices for forestry as outlined in the West Virginia Forest Practice Standards and the Best Management Practices for water quality as outlined in the West Virginia Nonpoint Source Management Program.

9.4 The Division of Forestry, Department of Commerce, Labor and Environmental Resources shall on or before October 1 of each year, provide the State Tax Department a copy of such certifications and reports and provide a list of those properties certified as managed timberland and those denied certification.

§ 110-1H-10 Summary of Method of Determining Appraised Value. - The formula to be used in determining the appraised value of property categorized as managed timberland is as follows:

$$\text{Appraised Value Per Acre} = \frac{\text{Total Yield per acre} \times \text{stumpage price}}{80 \text{ Years}} \times \frac{\text{Management Cost Per Acre}}{\text{Capitalization Rate}}$$

§ 110-1H-11 Appraised Value of Timberland. - The appraised value per acre of timberland shall be determined based upon market comparable.

§ 110-1H-12 Valuation of Less Than 10 Acres. - A parcel, or contiguous parcels, of timberland totalling less than ten (10) acres shall not be considered to be managed timberland and shall be valued as timberland based upon market comparables, without considering the productivity capacity of the site for timber yield.

§ 110-1H-13 Valuation of Farm Wood Lots. - Farm wood lots and the parts of a farm which are in timber shall be included in the valuation of farm property under W. Va. Code § 11-1A-10, except when the timberland is a separate parcel or tract entered in the land books, and except when the primary use of the farmland is in commercial forestry or the growing of timber for commercial purposes. See W. Va. Code § 11-1A-3(f).

§ 110-1H-14 Timberland Improvements. - Improvements such as roads and service buildings that are a required (usual) part of timber management operations shall not be subject to an additional market value appraisal over and above the appraisal of the managed timberland. Improvements that are not a necessary part of the timber management operations, such as dwellings, cottages, hunting camps, and other recreational facilities, and associated real estate shall be subject to additional market value appraisals.