



2022 Cropland, Pastureland and Timberland



Valuation for Property Tax Purposes Arkansas Assessment Coordination Division Department of Finance and Administration October 15, 2021



STATE OF ARKANSAS Department of Finance and Administration

October 15, 2021

To: The Honorable Terry Rice To: The Honorable Jeff Wardlaw

The Report is presented pursuant to A.C.A 26-26-407 (4) which requires that ACD report any changes to the agricultural use valuation formula for property tax purposes to Legislative Council by October 15th of each year.

Contained within the report are the guidelines used by ACD in it duties, the calculations used in determining the values, and the statistical information used in the calculations. These values will be used by counties completing their reappraisal cycle in 2021.

No Changes were made in the formulas used in these calculations this year.

If you have any questions about any part of A.C.A 26-26-407 (4) or any part of the Agricultural Use Valuation process please feel free to contact me.

Sincerely,

Kolten McCracken Division Administrator Arkansas Assessment Coordination Division Department of Finance and Administration 501-324-9113 <u>Kolten.McCracken@acd.arkansas.gov</u>

Table of Contents

ACD Agricultural Guidelines	
Map of ACD Agricultural Regions	2
Delta Region	
Ouachita Region	21-32
Ozark Region	
Southwest Region	45-56
Crop and Pasture Rates	
Timber Rates	58-60

Guidelines For The Mass Appraisal Of Cropland, Timberland, and Pastureland In The State Of Arkansas

Developed in 1996 by The State Of Arkansas Assessment Coordination Division of the Department of Finance and Administration in compliance with Arkansas Code 26-26-407 Revised 2021

Overview

All agricultural lands in the state including cropland, pastureland, and timberland are given special classification by the state constitution (Amendment 59). Such land is to be valued based on its use. It is not based on its market value. This use valuation, as it is called, is designed to protect and preserve such land. The state in rendering this classification recognizes the importance of crops and farming, the production of livestock, and a managed forest for the betterment of all the people of the state.

The Agricultural Land mass appraisal program launched in 1981 developed seventy-five individual county land values based on published information by the USDA National Agricultural Statistics Service (NASS-USDA) and the Natural Resource and Conservation Service (NRCS).

In an effort to eliminate some of the variables and inconsistencies, in 1996 the introduction of Regional Land Values for the state of Arkansas was implemented. The land regions are based on those set by the U.S. Forest Service. There are four regions:



In 2007, clarifying language was added to statute as to how often the Assessment Coordination Division will calculate agricultural values (annually), that counties must use those values at the end of their reappraisal cycle, basic parameters for the formulas used to calculate the capitalization rate used, and added oversight by requiring a report be filed annually with Legislative Council.

Statute Highlights

The following consists of highlights from Arkansas Code 26-26-407. Please see the full statute for complete information regarding agricultural valuation.

(b)(1)(A) Agricultural land, pasture land, and timber land valuation shall be based on the productivity of the agricultural land, pasture land, or timber land soil.

(B) Agricultural land, pasture land, and timber land guidelines shall be developed based on the typical or most probable use of the soils for agricultural land, pasture land, and timber land in the region.

Statute Highlights cont.

(f)(1) In devising and developing methods of assessing and levying the ad valorem property tax on real property, the Assessment Coordination Department shall annually develop and publish valuation tables and other data which shall be used by county Assessors for assessing lands qualifying under the provisions of this subchapter.

(2)(A) Effective for assessment years beginning January 1, 2008, and every year thereafter, the Assessment Coordination Department shall update the valuation tables for assessing lands qualifying as agricultural land, pasture land, and timber land in time for counties to use the updated tables when they finish their countywide appraisals.

(B) Beginning January 1, 2008, when there is a countywide reappraisal, a county shall assess agricultural land, pasture land, and timber land based upon the updated land values in the valuation tables issued for the assessment year.

(3)(A) Effective for assessment years beginning January 1, 2008, the Assessment Coordination Department by rule shall develop appropriate formulas reflecting the productivity valuation of the land based upon income capability attributable to agricultural land, pasture land, and timber land soils.

(B) Beginning January 1, 2008, and every year thereafter, the Assessment Coordination Department shall develop and calculate capitalization rates by using appropriate long-term federal security rates, risk rates, management rates, and other appropriate financial rates.

(C) However, the capitalization rate developed under subdivision (f) (3) (B) of this section shall not be less than eight percent (8%) nor more than twelve percent (12%).

(4) By October 15 of each year, the Assessment Coordination Department shall report to the Legislative Council any changes to any part of the formula used to determine the value or the capitalization rate.

Soils

The Assessment Coordination Division utilizes the NRCS Soil Survey for each county in the state of Arkansas in its valuation process and for its soil classification. The Soil Survey contains the Land Capability Classification System. This system measures the limitations of soils using eight classes with subclasses. The soil groupings are based on the NRCS Class I being the least limited and VIII being the most restrictive. The sub class describes the type of limitation be it W-water, E-erosion, and S-shallow or unstable soils. NRCS has published a soil survey for each county in Arkansas. These are available online at http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm

Within these surveys each soil is described and is designated a capability class, and a subclass. The survey also provides productivity rates for crop soils and pasture soils. It also provides growth indices for timber soils . The NRCS also produces a soil map for each county which is utilized in the valuation process.

Below is a brief summary of each of the Land Capability Classification System groupings. Please see the Web Soil Survey for a complete description.

ACD Numbers and NRCS LCC Interpretations (The ACD numbers are provided for easy conversion of the LCC scientific classification nomenclature.)

ACD#	LAND	CAPABILITY CLASSIFICATION
1	I-	Soils have few limitations that restrict use.
2	IIw -	Soils have moderate water limitations that reduce the choice of plants or require moderate conservation practices.
3	IIIs-	Soils are very swallow and suffer from severe limitations that reduce the choice of plants or that require special conservation practices, or both.
4	IIIw-	Soils have severe water limitations that reduce the choice of plants or that require special conservation practices, or both.
5	IIs -	Soils are shallow and have moderate limitations that reduce the choice of plants or require moderate conservation practices.
6	IVs -	Soils are shallow and have severe limitations that reduce the choice of plants or that require careful management, or both.
7	IVw-	Soils have severe water limitations that reduce the choice of plants or that require very careful management, or both.
8	Vw -	Soils are not likely to erode, but have water limitations, impractical to remove and limits the use.
9	VIs -	Soils have severe shallow limitations that make them generally unsuitable for cultivation.
10	VIw-	Soils have severe water limitations that make them generally unsuitable for cultivation.
11	VIIs-	Soils are shallow and have very severe limitations that make them unsuitable for cultivation.
12	IIe -	Soils have moderate limitations to erosion that reduces the choice of plants or that require moderate conservation practices.
13	IIIe-	Soils have severe limitations to erosion that reduces the choice of plants or that require special conservation practices, or both.
14	IVe -	Soils have very severe limitations to erosion that reduces the choice of plants or that require very careful management, or both.
15	VIe -	Soils have very severe limitations to erosion that make them generally unsuitable for cultivation.
16	VIIe-	Soils have very severe limitations to erosion that make them unsuitable for cultivation.
17	VIII-	(ROCK OUTCROPS ECT) - Soils and miscellaneous areas that have limitations that nearly preclude their use for commercial crop production.
18	NO CL	ASS OR MISC. LAND
LETTERS INDIC	ATE LIM	ITATIONS (PROBLEMS) ASSOCIATED WITH THOSE SOILS.

w = WATER PROBLEMS (flooding), e = EROSION PROBLEMS, s = SHALLOW SOILS (limited root zone, or stony soils)

Determining Use

The county or its contractor uses many tools in its valuation process. First it determines the use of the property by identifying and visiting the property. A visual inspection helps determine whether it is crop, pasture, timber or as in many cases a mix of these uses. Sometimes aerial photography and/ or satellite imagery is used for difficult or unusual terrain.



Identifying the property

Determining Use





Applying the soil map to the property to calculate the acreage of each soil by each use on each piece of property

An example of a 40 acre parcel.

Acres	ACD#	Use
20	4	Pasture
10	6	Timber
5	6	Pasture
5	11	Timber

Valuation

According to code 26-26-407 there is a land value developed for each land capability class. In some cases values have been filled into some classes where there has been agricultural activity but productivity data is non-documented. Arkansas Code 26-26-407 clearly indicates that the use valuation of land should be used for agricultural lands. This method is otherwise known as the income approach to value. The basic formula for this is:

Income - Cost = Net Income / Capitalization Rate = Land Value

Each of our categories, Crop, Pasture, and Timber are calculated using their own representative productive output. Crop uses soybeans which can be grown in all four agricultural regions as its base. Pasture uses a mixture of warm and cool season grasses that are traditionally grown for grazing in all four regions as its base. Timber uses a mixture of pine and hardwoods as its base. Each soil has a bushel, AUM (animal unit per month), or a board foot per year productive capability.

In determining values we use ten year rolling averages of crop prices, rental rates, costs, stumpage pricing, and financial securities to help level out large swings that could be the result of a single year of high or low numbers due to outside influences. All values are calculated with a one year delay due to the need for data that is calculated by various federal agencies and industry resources that is not released until the third quarter of each year. This means that the 2019 values are based on data that was captured through the end of 2017, compiled and then published in the third quarter of 2018, applied to our formulas in 2018 and released for use in the reappraisal cycles ending in 2019.

The capitalization rate, or cap rate, is the rate at which you discount future income to determine its present value. Another way of looking at it is the capitalization rate expresses what percentage rate a property's net operating income is to its value.

Valuation—Crop

Crop Income is based on a ten year market price average for soybeans which for this report was \$10.81. This amount is multiplied by the NRCS average bushel per acre of soybeans for each soil type. To adjust for operating costs a 25/75 rental rate split is assumed with the 25 percent applied as net income. It is then divided by the capitalization rate. Below is an example of the formula. (Note: There are 18 soil classes for each use)

SOIL CLASS	AVERAGE SOYBEAN BUSHEL PER ACRE	10 YEAR AVER- AGE OF PRICES RECEIVED BY FARMERS	SUM	75/25 SPLIT	CAPITALI- ZATION RATE	ROUNDED TO THE NEAREST \$5
					8.42%	
ACD 1	39	\$10.81	\$421.59	\$105.40	\$1,251.75	\$1,250
ACD 2	35	\$10.81	\$335.11	\$83.78	\$994.98	\$995
ACD 3	18	\$10.81	\$194.58	\$48.65	\$577.73	\$560

Valuation—Pasture

Pasture Income is based on AUM. Animal Unit Months are a measure of forage productivity in the soil surveys. The value of one animal unit month was developed by taking the state average AUM of 6.5 and dividing it by the 10 yr. Pasture Rent Average \$18.20. This leads to a \$2.82 per AUM value statewide which is the equivalent of the per bushel price for soybeans. The average AUM for each soil class is multiplied by price per AUM and then divided by the capitalization rate. Below is an example of the formula. (Note: There are 18 soil classes for each use)

	AUM	AVG \$ PER AUM	TOTAL	CAPITAL- IZATION RATE	ROUNDED TO NEAREST \$5
				8.00%	
ACD 1	9.9	\$2.82	\$27.92	\$348.98	\$350
ACD 2	8.4	\$2.82	\$23.69	\$296.10	\$295
ACD 3	5.2	\$2.82	\$14.66	\$183.30	\$185

Valuation—Timber

Because of the thirty to forty year growth cycle of marketable timber and the variable growth volumes for each year a discount cash flow model was used to best represent the use value. This model takes into consideration the startup capital for tree planting, herbicidal and fire treatments, as well as income produced through various thinning's of the growth cycle. This results in culmination of information brought back to the present worth of the site.

The timber productivity of each soil is measured by the soils indicator species and site index, as assigned by The Natural Resource and Conservation Service (NRCS). Utilizing the indicator species and the site index as the determining factor for productivity, a discount cash flow determines value for:

Soils with a Site index greater than 90 is Very Productive = Pine High Site

Soils with a Site index of 89 to 70 is Productive = Medium Pine Site

Soils with a Site index of 69 to 50 is Marginal = Low Pine Site

Soils with a Site index 49 and below is Unproductive = Min. Land Value

All Hardwood lands = Hardwood Site Value

The basic formula for Timber is:

State average	Х	Harvest vol-	=	Income from	- Expenses from /	Capitalization	=	Value
prices on board		umes by soil		thinning and	planting thin-	rate		
and pulp		type and spe-		final harvests	ning etc.			
		cies and board						
		and or pulp						

The soils value is then determined by multiplying total acres to determine total value and then calculating a weighted value by soil type for each region. For information regarding the discount cash flow formula for timber land please contact the Assessment Coordination Division, http://www.arkansas.gov/acd.

Please remember that the total values presented are then multiplied by the Assessment Rate (20%) as prescribed by law for all property in the state. That determines its Assessed Value. It then needs to be multiplied by your local millage rate to determine a tax amount. Please contact your local county Assessor for more information on this.

FAQ's

Fire Protection Tax

There is levied on all timberlands in this state an annual tax of twenty cents (20¢) per acre to be collected in the manner provided in under Arkansas Code 26-61-103 for deposit into the State Treasury for credit to the State Forestry Fund as special revenues to be used for the maintenance, operation, and improvement of the Arkansas Forestry Commission in its statewide program for the detection, prevention, and suppression of forest fires.

If a taxpayer's agricultural land, pasture land or timber land goes up in value as a result of a reappraisal are his taxes based upon 20% of the total value of such property, including the increase?

No, such land, by Amd. 79 definition, could not qualify as homestead property, and therefore any increase in assessed value is limited (capped) to not increase annually more than ten percent (10%) of the assessed value of the property for the previous year, but it shall increase by an additional ten percent (10%) each year until it reaches that full assessed value, Ark. Constitution Amd. 79 Sec. 1(b)(1). This provision does not apply with a change in ownership, newly discovered real property, new construction, or substantial improvement to real property, Ark. Constitution Amd. 79 Sec. 1(b)(2).

Does the assessed value of a taxpayers agricultural land, pasture land or timber land cease to increase (freeze) over and above the amount it was immediately before he purchased the property or became disabled or sixty-five (65) years of age?

No, by Amd. 79 definition, agricultural land, pasture land or timber land is not homestead property and therefore the freeze does not apply, Ark. Constitution Amd. 79 Sec. 1(d)(1)(A).

How do we value WRP - CRP lands?

WRP, CRP, and any other agricultural land in conservation programs are classified as agricultural land for property tax purposes and receive no other consideration in value.

What jurisdiction do the BOE and the county court have to hear appeals of taxpayers who disagree with the county assessor as to the assessment on their agricultural land, pasture land, or timber land?

A.C.A 26-27-317 Application for adjustment. (3) The County Equalization does not have jurisdiction over and may not accept or consider a petition or letter under subdivision (a)(1) of this section for the adjustment of the: (B) Valuation of agricultural land. Pasture land, or timberland derived by the guidelines and methods set forth by the Assessment Coordination Department under 26-26-407.

The BOE may reclassify use upon proof of change in use of the land or upon proof that the land is not eligible for classification under this section.

Neither the BOE nor the county court may change the value of such land because the value is established by the ACD, ACA 16-26-407. In almost all cases any dispute over use can be resolved by contacting your county Assessor.

-	_	-	_
^	D	\mathbf{n}	D
ັບ	Г	U	—

	AVERAGE SOYBEAN BUSHEL PER ACRE	10 YEAR AVERAGE OF PRICES RECEIVED BY FARMERS	SUM	75/25 SPLIT	CAPITALI- ZATION RATE 8.42%	ROUNDED TO THE NEAREST \$5	OLD RATE ROUNDED TO THE NEAREST \$5	DIFF	% DIFF	
ACD 1	39	\$10.81	\$421.59	\$105.40	\$1,251.75	\$1,250	\$1,215	\$35	3%	
ACD 2	35	\$10.81	\$378.35	\$94.59	\$1,123.37	\$1,125	\$1,090	\$35	3%	
ACD 3	18	\$10.81	\$194.58	\$48.65	\$577.73	\$580	\$560	\$20	4%	
ACD 4	32	\$10.81	\$345.92	\$86.48	\$1,027.08	\$1,025	\$995	\$30	3%	
ACD 5	30	\$10.81	\$324.30	\$81.08	\$962.89	\$965	\$935	\$30	3%	
ACD 6	14	\$10.81	\$151.34	\$37.84	\$449.35	\$450	\$435	\$15	3%	
ACD 7	29	\$10.81	\$313.49	\$78.37	\$930.79	\$930	\$900	\$30	3%	
ACD 8	29	\$10.81	\$313.49	\$78.37	\$930.79	\$930	\$900	\$30	3%	
ACD 9	14	\$10.81	\$151.34	\$37.84	\$449.35	\$450	\$435	\$15	3%	
ACD 10	29	\$10.81	\$313.49	\$78.37	\$930.79	\$930	\$900	\$30	3%	
ACD 11	14	\$10.81	\$151.34	\$37.84	\$449.35	\$450	\$435	\$15	3%	
ACD 12	31	\$10.81	\$335.11	\$83.78	\$994.98	\$995	\$965	\$30	3%	
ACD 13	24	\$10.81	\$259.44	\$64.86	\$770.31	\$770	\$745	\$25	3%	
ACD 14	22	\$10.81	\$237.82	\$59.46	\$706.12	\$705	\$685	\$20	3%	
ACD 15						\$325	\$325	\$0	0%	
ACD 16						\$265	\$265	\$0	0%	
ACD 17						\$190	\$190	\$0	0%	
ACD 18						\$125	\$125	\$0	0%	

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS PASTURE

						OLD RATE ROUNDED TO		
		AVG \$ PER		CAPITAL-	ROUNDED TO	THE NEAREST		
	AUM	AUM	TOTAL	IZATION RATE	NEAREST \$5	\$5	DIFF	% DIFF
				8.00%				
ACD 1	9.9	\$2.82	\$27.92	\$348.98	\$350	\$345	\$5	1%
ACD 2	8.4	\$2.82	\$23.69	\$296.10	\$295	\$290	\$5	2%
ACD 3	5.2	\$2.82	\$14.66	\$183.30	\$185	\$180	\$5	3%
ACD 4	7.4	\$2.82	\$20.87	\$260.85	\$260	\$255	\$5	2%
ACD 5	7.1	\$2.82	\$20.02	\$250.28	\$250	\$245	\$5	2%
ACD 6	4.1	\$2.82	\$11.56	\$144.53	\$145	\$140	\$5	4%
ACD 7	6.7	\$2.82	\$18.89	\$236.18	\$235	\$235	\$0	0%
ACD 8	5.5	\$2.82	\$15.51	\$193.88	\$195	\$190	\$5	3%
ACD 9	4	\$2.82	\$11.28	\$141.00	\$140	\$140	\$0	0%
ACD 10	5.5	\$2.82	\$15.51	\$193.88	\$195	\$190	\$5	3%
ACD 11	3.5	\$2.82	\$9.87	\$123.38	\$125	\$120	\$5	4%
ACD 12	8.8	\$2.82	\$24.82	\$310.20	\$310	\$305	\$5	2%
ACD 13	7.7	\$2.82	\$21.71	\$271.43	\$270	\$270	\$0	0%
ACD 14	6.2	\$2.82	\$17.48	\$218.55	\$220	\$215	\$5	2%
ACD 15	4.7	\$2.82	\$13.25	\$165.68	\$165	\$165	\$0	0%
ACD 16	4.7	\$2.82	\$13.25	\$165.68	\$165	\$165	\$0	0%
ACD 17	4.7	\$2.82	\$13.25	\$165.68	\$165	\$165	\$0	0%
ACD 18					\$75	\$75	\$0	0%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

DELTA PINEHIGHSITE

Estimated Timberland Value for Timber Production in Arkansas (High-Site Pine)

Out-of-Pock	et Expenses:								
Age	<u>Activity</u>	Ex	<u>pense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
				Deductible	Benefit	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$	191	No	\$0	\$191	\$0	\$1,918	\$2,110
3	Spray	\$	64	Yes	\$22	\$41	\$171	\$318	\$166
8	PCT	\$	126	Yes	\$44	\$82	\$211	\$393	\$219
18	Fert.	\$	84	Yes	\$29	\$54	\$47	\$88	\$66
26	Fert.			Yes	\$0	\$0	\$0	\$0	\$0
Subtotal:			\$464	-	\$96	\$369	\$430	\$2,716	\$2,560
Annual Expense	es:								
Adminstration/	management.:		\$10	Yes	\$4	\$7	\$32	\$60	\$31
Subtotal (30 yrs	.):		\$300	n	\$105	\$195	\$334	\$619	\$376
Total:			\$764	-	\$201	\$564	\$763	\$3,336	\$2,936
	**Interest rate	e use	d in computations is:	8.00%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 30 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stu	mpage	Harvest	State and Federal 1	ax Payments:				
Age	<u>Volume</u>	<u>F</u>	Price	Revenue	Arkansas State	Fed. Income		Net Income	Accrued	Total
					Income Tax@ 7%	<u>Tax @ 35%</u>		After Tax	Interest on Net	Income
16	9.21	\$	19	\$178	(\$12)	-		\$166	-	-
	(Cords)					(\$62)	1	\$103	\$213	\$317
23	3.78	\$	243	\$920	(\$64)	-		\$855	-	-
	(MBF Doyle)					(\$322)	1	\$533	\$400	\$934
30	16.45	\$	243	\$3,999	(\$280)	-		\$3,719	-	-
	(MBF Doyle)					(\$1,237)	1	\$2,482	\$0	\$2,482
:		-		\$5,097	(\$357)	(\$1,621)		\$2,585	\$614	\$3,732

¹ Less Site Prep/Plant Expense and adjusted for fed. tax deduction.

 Total Income including a 	\$3,732	
2. Out-of-pocket expenses	(\$2,936)	
3. Net income before prop	\$797	
4. Present value of net inc	\$79	
5. Annual ad valorem prop	perty taxes:	
Property tax rate:	1.00%	
Annual property tax pay	ment:	(\$0.74)
Annual property tax pay	ment adjusted for fed. inc. tax deduction:	(\$0.48)
Total property tax paym	ents per harvest cycle:	(\$14)
Accrued interest on out-	\$46	

Step 4 - Tax Burden on High Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses		
		State	Federal	Taxes	Accrued Interest	Total	
Cost-increasing:							
Property taxes on land:		\$22	-	\$14	\$46	\$60	
Subtotal:		\$22	-	\$14	\$46	\$60	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$357	-	\$232	-	\$232	
Federal Income Tax on harvest revenue @	35.0%	-	\$1,621	\$1,621	-	\$1,621	
Subtotal:		\$357	\$1,621	\$1,853	-	\$1,853	
Totals:		\$379	\$1,621	\$1,867	\$46	\$1,913	
Tax burden as percent of gross revenues:		7.4%	31.8%	36.6%	0.9%	37.5%	

DELTA PINEMEDSITE

Estimated Timberland Value for Timber Production in Arkansas (Medium-Site Pine)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant		No	\$0	\$0	\$0	\$0	\$0
3	Spray		Yes	\$0	\$0	\$0	\$0	\$0
8	PCT		Yes	\$0	\$0	\$0	\$0	\$0
19	Fert.		Yes	\$0	\$0	\$0	\$0	\$0
26	Fert.	-	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management .:	\$8	Yes	\$3	\$5	\$31	\$57	\$29
ubtotal (32 yrs	.):	\$256	n	\$90	\$166	\$328	\$609	\$358
Total:		\$256	-	\$90	\$166	\$328	\$609	\$358
	**Interest rate	used in computations is:	8.00%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 32 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal	Tax Payments:				
<u>Age</u>	Volume	<u>Price</u>	Revenue	Arkansas State Income Tax@ 7%	Fed. Income <u>Tax @ 35%</u>		Net Income <u>After Tax</u>	Accrued Interest on Net	Total Income
18	8.03	\$19.35	\$155	(\$11)	-		\$144	-	-
	(Cords)				(\$54)	1	\$90	\$186	\$276
32	13.59	\$243.11	\$3,304	(\$231)	-		\$3,073	-	-
	(MBF Doyle)				(\$1,156)	1	\$1,916	\$0	\$1,916
al:		-	\$3,459	(\$242)	(\$1,211)		\$2,006	\$186	\$2,192

Less Site Prep/Plant Expense and adjusted for fed. tax deduction.

1. Total Income including	accrued interest on net thinning income to final harvest:	\$2,192				
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$358)				
3. Net income before prop	\$1,834					
4. Present value of net inc	\$154					
5. Annual ad valorem pro	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax page	yment:	(\$1.42)				
Annual property tax page	yment adjusted for fed. inc. tax deduction:	(\$0.92)				
Total property tax payn	nents per harvest cycle:	(\$30)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
6. Land value after proper	. Land value after property tax (adj. for income tax deduction):					

Step 4 - Tax Burden on Medium Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$45	-	\$30	\$108	\$138
Subtotal:		\$45	-	\$30	\$108	\$138
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$242	-	\$157	-	\$157
Federal Income Tax on harvest revenue @	35.0%	-	\$1,211	\$1,211	-	\$1,211
Subtotal:		\$242	\$1,211	\$1,368	-	\$1,368
Totals:		\$288	\$1,211	\$1,398	\$108	\$1,506
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.1%	43.5%

DELTA PINELOWSITE

Estimated Timberland Value for Timber Production in Arkansas (Low Site Pine)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$O	No	\$0	\$0	\$0	\$0	\$0
3	Spray	\$O	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$O	Yes	\$0	\$0	\$0	\$0	\$0
19	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
Subtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management.:	\$0	Yes	\$0	\$0	\$0	\$0	\$0
Subtotal (34 yrs	.):	\$0	II	\$0	\$0	\$0	\$0	\$0
Total:		\$0	-	\$0	\$0	\$0	\$0	\$0
	**Interest rate	e used in computations is:	8.00%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 34 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal T	ax Payments:			
<u>Age</u>	<u>Volume</u>	Price	Revenue	Arkansas State Income Tax@ 7%	Fed. Income <u>Tax @ 35%</u>	Net Income <u>After Tax</u>	Accrued Interest on Net	Total <u>Income</u>
	(Cords)	\$19	\$0	\$0	- \$0	\$0 \$0	- \$0	- \$0
34	11.16	\$243	\$2,713	(\$190)	ψõ	\$2,523	-	φ0 -
	(MBF Doyle)				(\$949) ¹	\$1,573	\$0	\$1,573
al:		-	\$2,713	(\$190)	(\$949)	\$1,573	\$0	\$1,573

1. Total Income including	accrued interest on net thinning income to final harvest:	\$1,573			
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	\$O			
3. Net income before prop	\$1,573				
4. Present value of net inc	\$111				
5. Annual ad valorem proj	perty taxes:				
Property tax rate:	50 mills @ 20% assessment ratio	1.00%			
Annual property tax page	yment:	(\$1.03)			
Annual property tax page	yment adjusted for fed. inc. tax deduction:	(\$0.67)			
Total property tax payn	nents per harvest cycle:	(\$23)			
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:				
Land value after proper	. Land value after property tax (adj. for income tax deduction):				

Step 4 - Tax Burden on Low Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	<u>Taxes</u>	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$35	-	\$23	\$96	\$118
Subtotal:		\$35	-	\$23	\$96	\$118
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$190	-	\$123	-	\$123
Federal Income Tax on harvest revenue @	35.0%	-	\$949	\$949	-	\$949
Subtotal:		\$190	\$949	\$1,073	-	\$1,073
Totals:		\$225	\$949	\$1,096	\$96	\$1,191
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.5%	43.9%

DELTA HARDWOOD

Estimated Timberland Value for Timber Production in Arkansas (MIXED HARDWOOD)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$0	No	\$0	\$0	\$0	\$0	\$0
3	Spray	\$0	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$0	Yes	\$0	\$0	\$0	\$0	\$0
17	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
Subtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management .:	\$0	Yes	\$0	\$0	\$0	\$0	\$0
Subtotal (40 yrs	.):	\$0	II	\$0	\$0	\$0	\$0	\$0
Total:		\$0	-	\$0	\$0	\$0	\$0	\$0
	**Interest rate	used in computations is:	8.00%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 40 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stu	mpage	Harvest	State and Federal	Tax Payments:			
Age	Volume	<u>F</u>	Price	Revenue	Arkansas State	Fed. Income	Net Income	Accrued	Total
					Income Tax@ 7%	<u>Tax @ 35%</u>	<u>After Tax</u>	Interest on Net	Income
40	3.42	\$	33	\$114	(\$8)	-	\$106	-	-
	(Cords)					(\$40)	\$66	\$0	\$66
40	9.78	\$	344	\$3,360	(\$235)	-	\$3,125	-	-
	(MBF Doyle)					(\$1,176) ¹	\$1,949	\$0	\$1,949
Total:		-		\$3,474	(\$243)	(\$1,216)	\$2,015	\$0	\$2,015

1. Total Income including	accrued interest on net thinning income to final harvest:	\$2,015				
2. Out-of-pocket expenses	Out-of-pocket expenses (silvicultural activities and taxes) and accrued interest:					
3. Net income before prop	\$2,015					
4. Present value of net inc	\$86					
5. Annual ad valorem prop	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	(\$0.79)					
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$0.51)				
Total property tax paym	nents per harvest cycle:	(\$21)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
		\$79				
6. Land value after proper	. Land value after property tax (adj. for income tax deduction):					

Step 4 - Tax Burden on MIXED HARDWOOD Site Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses		
		State	Federal	<u>Taxes</u>	Accrued Interest	Total	
Cost-increasing:							
Property taxes on land:		\$32	-	\$21	\$131	\$151	
Subtotal:		\$32	-	\$21	\$131	\$151	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$243	-	\$158	-	\$158	
Federal Income Tax on harvest revenue @	35.0%	-	\$1,216	\$1,216	-	\$1,216	
Subtotal:		\$243	\$1,216	\$1,374	-	\$1,374	
Totals:		\$275	\$1,216	\$1,394	\$131	\$1,525	
Tax burden as percent of gross revenues:		7.9%	35.0%	40.1%	3.8%	43.9%	

DCF's Harvest Volume by Region

<u>Delta Region:</u>	Type of	Age @		Product			Total Vol. @	Percent	Harvest
DCF Classification	Harvest	Harvest	Species	Classific.	Yield/yr	Units	Harvest	Harvested	Volume
Marginal Pine Site	Final Hvst	34	Pine	Sawtimber	1.15	cds	39.1	100.0%	11.16
Medium Pine Site	C. Thinning	18	Pine	Pulpwood	1.49	cds	26.8	30.0%	8.03
Medium Pine Site	Final Hvst	32	Pine	Sawtimber	1.49	cds	47.6	100.0%	13.59
High Pine Site	C. Thinning	16	Pine	Pulpwood	1.92	cds	30.7	30.0%	9.21
High Pine Site	C. Thinning	23	Pine	Sawtimber	1.92	cds	44.1	30.0%	3.78
High Pine Site	Final Hvst	30	Pine	Sawtimber	1.92	cds	57.6	100.0%	16.45
Hardwood Land	Final Harvest	40	HDWD	Sawtimber	244.44	bd. ft.	9.8	100.0%	9.78
Hardwood Land	Final Harvest	40	HDWD	Pulpwood	0.09	cds	3.4	100.0%	3.42

DELTA REGION TIMBER:

Cap Rate= 8.00%

ACD#	Previous Value/Acre	Current Value/Acre	Var/Ac
1	\$80	\$80	0%
2	\$90	\$90	0%
3	\$90	\$90	0%
4	\$95	\$95	0%
5	\$75	\$80	7%
6	\$100	\$95	-5%
7	\$80	\$85	6%
8	\$90	\$90	0%
9	\$105	\$105	0%
10	\$95	\$95	0%
11	\$110	\$110	0%
12	\$115	\$110	-4%
13	\$130	\$125	-4%
14	\$125	\$125	0%
15	\$120	\$115	-4%
16	\$105	\$100	-5%
17	\$95	\$95	0%
18	\$65	\$65	0%
			-1%

OUACHITA

CROP

	AVERAGE SOYBEAN BUSHEL PER ACRE	10 YEAR AVG OF PRICES RECEIVED BY FARMERS	SUM	75/25 SPLIT	CAPITALI- ZATION RATE	ROUNDED TO THE NEAREST \$5	OLD RATE ROUNDED TO THE NEAREST \$5	DIFF	% DIFF
		• • • • • •	• · • · • •	• · • • • •	8.42%	• • • • • •	• • • • -	• • •	
ACD 1	39	\$10.81	\$421.59	\$105.40	\$1,251.75	\$1,250	\$1,215	\$35	3%
ACD 2	31	\$10.81	\$335.11	\$83.78	\$994.98	\$995	\$965	\$30	3%
ACD 3	18	\$10.81	\$194.58	\$48.65	\$577.73	\$580	\$560	\$20	4%
ACD 4	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 5	18	\$10.81	\$194.58	\$48.65	\$577.73	\$580	\$560	\$20	4%
ACD 6	18	\$10.81	\$194.58	\$48.65	\$577.73	\$580	\$560	\$20	4%
ACD 7	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 8	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 9	18	\$10.81	\$194.58	\$48.65	\$577.73	\$580	\$560	\$20	4%
ACD 10	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 11	15	\$10.81	\$162.15	\$40.54	\$481.44	\$480	\$465	\$15	3%
ACD 12	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 13	20	\$10.81	\$216.20	\$54.05	\$641.92	\$640	\$620	\$20	3%
ACD 14	20	\$10.81	\$216.20	\$54.05	\$641.92	\$640	\$620	\$20	3%
ACD 15						\$345	\$345	\$0	0%
ACD 16						\$270	\$270	\$0	0%
ACD 17						\$210	\$210	\$0	0%
ACD 18						\$125	\$125	\$0	0%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DIVISION

OUACHITA

PASTURE

		AVG \$ PER		CAPITAL- IZATION	ROUNDED TO	ROUNDED TO THE NEAREST		
	AUM	AUM	TOTAL	RATE	NEAREST \$5	\$5	DIFF	% DIFF
				8.00%	- •-	· -		
ACD 1	8.4	\$2.82	\$23.69	\$296.10	\$295	\$290	\$5	2%
ACD 2	7.7	\$2.82	\$21.71	\$271.43	\$270	\$270	\$0	0%
ACD 3	5.1	\$2.82	\$14.38	\$179.78	\$180	\$175	\$5	3%
ACD 4	6.3	\$2.82	\$17.77	\$222.08	\$220	\$220	\$0	0%
ACD 5	5.1	\$2.82	\$14.38	\$179.78	\$180	\$175	\$5	3%
ACD 6	4.2	\$2.82	\$11.84	\$148.05	\$150	\$145	\$5	3%
ACD 7	6.7	\$2.82	\$18.89	\$236.18	\$235	\$235	\$0	0%
ACD 8	6.1	\$2.82	\$17.20	\$215.03	\$215	\$210	\$5	2%
ACD 9	3.9	\$2.82	\$11.00	\$137.48	\$135	\$135	\$0	0%
ACD 10	6.7	\$2.82	\$18.89	\$236.18	\$235	\$235	\$0	0%
ACD 11	4.2	\$2.82	\$11.84	\$148.05	\$150	\$145	\$5	3%
ACD 12	6.9	\$2.82	\$19.46	\$243.23	\$245	\$240	\$5	2%
ACD 13	6.4	\$2.82	\$18.05	\$225.60	\$225	\$220	\$5	2%
ACD 14	5.1	\$2.82	\$14.38	\$179.78	\$180	\$175	\$5	3%
ACD 15	4.2	\$2.82	\$11.84	\$148.05	\$150	\$145	\$5	3%
ACD 16	4.2	\$2.82	\$11.84	\$148.05	\$150	\$145	\$5	3%
ACD 17	4.2	\$2.82	\$11.84	\$148.05	\$150	\$145	\$5	3%
ACD 18					\$75	\$75	\$0	0%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DIVISION

OUACHITA PINEHIGHSITE

Estimated Timberland Value for Timber Production in Arkansas (High-Site Pine)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	Benefit	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$191	No	\$0	\$191	\$0	\$1,918	\$2,110
3	Spray	\$64	Yes	\$22	\$41	\$171	\$318	\$166
8	PCT	\$126	Yes	\$44	\$82	\$211	\$393	\$219
18	Fert.	\$84	Yes	\$29	\$54	\$47	\$88	\$66
26	Fert.		Yes	\$0	\$0	\$0	\$0	\$0
Subtotal:		\$464	-	\$96	\$369	\$430	\$2,716	\$2,560
Annual Expense	es:							
Adminstration/r	management.:	\$10	Yes	\$4	\$7	\$32	\$60	\$31
Subtotal (30 yrs.	.):	\$300	"	\$105	\$195	\$334	\$619	\$376
Total:		\$764	-	\$201	\$564	\$763	\$3,336	\$2,936
	**Interest rate	used in computations is:	8.0%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 30 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stu	mpage	Harvest	State and Federal 1	ax Payments:				
<u>Age</u>	<u>Volume</u>	<u>F</u>	Price	<u>Revenue</u>	Arkansas State Income Tax@ 7%	Fed. Income <u>Tax @ 35%</u>		Net Income <u>After Tax</u>	Accrued Interest on Net	Total Income
16	9.21	\$	21	\$190	(\$13)	-	1	\$177	-	-
	(Cords)					(\$67)		\$110	\$228	\$338
23	3.78	\$	255	\$965	(\$68)	-		\$898	-	-
	(MBF Doyle)					(\$338)	1	\$560	\$420	\$980
30	16.45	\$	255	\$4,196	(\$294)	-		\$3,902	-	-
	(MBF Doyle)					(\$1,306)	1	\$2,596	\$0	\$2,596
al:		-		\$5,351	(\$375)	(\$1,710)		\$2,707	\$648	\$3,915

¹ Less Site Prep/Plant Expense and adjusted for fed. tax deduction.

	ccrued interest on net thinning income to final harvest:	\$3,915				
2. Out-of-pocket expenses	Out-of-pocket expenses (silvicultural activities and taxes) and accrued interest:					
3. Net income before prope	\$979					
4. Present value of net inco	\$98					
5. Annual ad valorem prope	erty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax payr	ment:	(\$0.90)				
Annual property tax payr	ment adjusted for fed. inc. tax deduction:	(\$0.59)				
Total property tax payme	ents per harvest cycle:	(\$18)				
Accrued interest on out-	of-pocket tax payments per harvest cycle:	\$56				

Step 4 - Tax Burden on High Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	<u>Taxes</u>	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$27	-	\$18	\$56	\$74
Subtotal:		\$27	-	\$18	\$56	\$74
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$375	-	\$243	-	\$243
Federal Income Tax on harvest revenue @	35.0%	-	\$1,710	\$1,710	-	\$1,710
Subtotal:		\$375	\$1,710	\$1,954	-	\$1,954
Totals:		\$402	\$1,710	\$1,972	\$56	\$2,028
Tax burden as percent of gross revenues:		7.5%	32.0%	36.8%	1.0%	37.9%

OUACHITA PINEMEDSITE

Estimated Timberland Value for Timber Production in Arkansas (Medium-Site Pine)

Out-of-Pock	et Expenses:							
Age	Activity	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant		No	\$0	\$0	\$0	\$0	\$0
3	Spray		Yes	\$0	\$0	\$0	\$0	\$0
8	PCT		Yes	\$0	\$0	\$0	\$0	\$0
19	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
26	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management.:	\$8	Yes	\$3	\$5	\$31	\$57	\$29
Subtotal (32 yrs	.):	\$256	n	\$90	\$166	\$328	\$609	\$358
Total:		\$256	-	\$90	\$166	\$328	\$609	\$358
	**Interest rate	used in computations is:	8.0%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 32 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal	Tax Payments:				
<u>Age</u>	<u>Volume</u>	<u>Price</u>	Revenue	Arkansas State Income Tax@ 7%	Fed. Income <u>Tax @ 35%</u>		Net Income <u>After Tax</u>	Accrued Interest on Net	Total <u>Income</u>
18	8.03	\$20.67	\$166	(\$12)	-		\$154	-	-
	(Cords)				(\$58)	1	\$96	\$199	\$295
32	13.59	\$255.11	\$3,467	(\$243)	-		\$3,224	-	-
	(MBF Doyle)				(\$1,213)	1	\$2,011	\$0	\$2,011
al:		-	\$3,633	(\$254)	(\$1,272)		\$2,107	\$199	\$2,306

Less Site Prep/Plant Expense and adjusted for fed. tax deduction.

. Total Income including	accrued interest on net thinning income to final harvest:	\$2,306				
. Out-of-pocket expense	Out-of-pocket expenses (silvicultural activities and taxes) and accrued interest:					
. Net income before prop	\$1,948					
. Present value of net inc	\$163					
. Annual ad valorem prop	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	yment:	(\$1.51)				
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$0.98)				
Total property tax paym	nents per harvest cycle:	(\$31)				
Accrued interest on out	t-of-pocket tax payments per harvest cycle:	\$115				
Accrued interest on out	-of-pocket tax payments per harvest cycle:					
l value after proper	ty tax (adj. for income tax deduction):	\$151				

Step 4 - Tax Burden on Medium Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	Out-of-Pocket Expenses		
		State	Federal	Taxes	Accrued Interest	Total	
Cost-increasing:							
Property taxes on land:		\$48	-	\$31	\$115	\$146	
Subtotal:		\$48	-	\$31	\$115	\$146	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$254	-	\$165	-	\$165	
Federal Income Tax on harvest revenue @	35.0%	-	\$1,272	\$1,272	-	\$1,272	
Subtotal:		\$254	\$1,272	\$1,437	-	\$1,437	
Totals:		\$303	\$1,272	\$1,468	\$115	\$1,583	
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.2%	43.6%	

OUACHITA PINELOWSITE

Estimated Timberland Value for Timber Production in Arkansas (Low Site Pine)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	Expense	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$ 0	No	\$0	\$0	\$0	\$0	\$0
3	Spray	\$0	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$0	Yes	\$0	\$0	\$0	\$0	\$0
19	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/r	management.:	\$ 0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal (34 yrs.	.):	\$0	"\$0		\$0	\$0	\$0	\$0
Total:		\$0	-	\$0	\$0	\$0	\$ 0	\$0
	**Interest rate	used in computations is:	8.0%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 34 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal	Tax Payments:				
Age	<u>Volume</u>	Price	Revenue	Arkansas State	Fed. Income		Net Income	Accrued	Total
				Income Tax@ 7%	<u>Tax @ 35%</u>		After Tax	Interest on Net	Income
		\$21	\$0	\$0	-		\$0	-	-
	(Cords)				\$0		\$0	\$0	\$0
34	11.16	\$255	\$2,847	(\$199)			\$2,647	-	-
	(MBF Doyle)				(\$996)	1	\$1,651	\$0	\$1,651
Total:		-	\$2,847	(\$199)	(\$996)		\$1,651	\$0	\$1,651

 Out-of-pocket expenses (silvicultural activities and taxes) and accrued interest: Not income before property tay: 	\$0
3. Net income before property tax:	
3. Net income before property tax.	\$1,651
4. Present value of net income before property tax:	\$116
5. Annual ad valorem property taxes:	
Property tax rate: 50 mills @ 20% assessment ratio	1.00%
Annual property tax payment:	(\$1.08)
Annual property tax payment adjusted for fed. inc. tax deduction:	(\$0.70)
Total property tax payments per harvest cycle:	(\$24)
Accrued interest on out-of-pocket tax payments per harvest cycle:	\$100

Step 4 - Tax Burden on Low Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses		
		State	Federal	Taxes	Accrued Interest	Total	
Cost-increasing:							
Property taxes on land:		\$37	-	\$24	\$100	\$124	
Subtotal:		\$37	-	\$24	\$100	\$124	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$199	-	\$130	-	\$130	
Federal Income Tax on harvest revenue @	35.0%	-	\$996	\$996	-	\$996	
Subtotal:		\$199	\$996	\$1,126	-	\$1,126	
Totals:		\$236	\$996	\$1,150	\$100	\$1,250	
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.5%	43.9%	

OUACHITA HARDWOOD

Estimated Timberland Value for Timber Production in Arkansas (MIXED HARDWOOD)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$0	No	\$0	\$0	\$0	\$0	\$0
3	Spray	\$0	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$0	Yes	\$0	\$0	\$0	\$0	\$0
17	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management .:	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal (40 yrs	.):	\$0	II	\$0	\$0	\$0	\$0	\$0
Total:		\$0	-	\$0	\$0	\$0	\$0	\$0
	**Interest rate	used in computations is:	8.00%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 40 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stu	mpage	Harvest	State and Federal	Tax Payments:				
Age	<u>Volume</u>	<u>F</u>	Price	Revenue	Arkansas State	Fed. Income		Net Income	Accrued	Total
					Income Tax@ 7%	<u>Tax @ 35%</u>		<u>After Tax</u>	Interest on Net	Income
40	3.42	\$	40	\$138	(\$10)	-		\$129	-	-
	(Cords)					(\$48)		\$80	\$0	\$80
40	9.78	\$	360	\$3,520	(\$246)	-		\$3,273	-	-
	(MBF Doyle)					(\$1,232)	1	\$2,041	\$0	\$2,041
Total:		-		\$3,658	(\$256)	(\$1,280)		\$2,121	\$0	\$2,121

 Lotal income including a 	accrued interest on net thinning income to final harvest:	\$2,121		
2. Out-of-pocket expenses	(silvicultural activities and taxes) and accrued interest:	\$0		
3. Net income before prope	erty tax:	\$2,121		
4. Present value of net inco	ome before property tax:	\$90		
5. Annual ad valorem prope	erty taxes:			
Property tax rate:	50 mills @ 20% assessment ratio	1.00%		
Annual property tax payr	Annual property tax payment:			
Annual property tax payr	ment adjusted for fed. inc. tax deduction:	(\$0.54)		
Total property tax payme	ents per harvest cycle:	(\$22)		
Accrued interest on out-	of-pocket tax payments per harvest cycle:	\$138		

Step 4 - Tax Burden on MIXED HARDWOOD Site Forest Land

		Total Tax	Payments:	Out-of-Pocket Expenses		
		State	Federal	Taxes	Accrued Interest	<u>Total</u>
Cost-increasing:						
Property taxes on land:		\$33	-	\$22	\$138	\$159
Subtotal:		\$33	-	\$22	\$138	\$159
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$256	-	\$166	-	\$166
Federal Income Tax on harvest revenue @	35.0%	-	\$1,280	\$1,280	-	\$1,280
Subtotal:		\$256	\$1,280	\$1,447	-	\$1,447
Totals:		\$289	\$1,280	\$1,468	\$138	\$1,606
Tax burden as percent of gross revenues:		7.9%	35.0%	40.1%	3.8%	43.9%

DCF's Harvest Volume by Region

Ouachita Region	Type of	Age @		Product			Total Vol. @ Percent		Harvest
DCF Classification	Harvest	Harvest	Species	Classific.	Yield/yr	Units	Harvest	Harvested	Volume
Marginal Pine Site	Final Hvst	34	Pine	Sawtimber	1.15	cds	39.1	100.0%	11.16
Medium Pine Site	C. Thinning	18	Pine	Pulpwood	1.49	cds	26.8	30.0%	8.03
Medium Pine Site	Final Hvst	32	Pine	Sawtimber	1.49	cds	47.6	100.0%	13.59
High Pine Site	C. Thinning	16	Pine	Pulpwood	1.92	cds	30.7	30.0%	9.21
High Pine Site	C. Thinning	23	Pine	Sawtimber	1.92	cds	44.1	30.0%	3.78
High Pine Site	Final Hvst	30	Pine	Sawtimber	1.92	cds	57.6	100.0%	16.45
Hardwood Land	Final Harvest	40	HDWD	Sawtimber	244.44	bd. ft.	9.8	100.0%	9.78
Hardwood Land	Final Harvest	40	HDWD	Pulpwood	0.09	cds	3.4	100.0%	3.42

OUACHITA REGION TIMBER:

Cap Rate= 8.00%

ACD#	Previous Value/Acre	Current Value/Acre	Var/Ac
1	\$80	\$85	6%
2	\$145	\$140	-3%
3	\$80	\$85	6%
4	\$100	\$100	0%
5	\$85	\$85	0%
6	\$110	\$110	0%
7	\$95	\$95	0%
8	\$95	\$95	0%
9	\$115	\$115	0%
10	\$90	\$90	0%
11	\$120	\$120	0%
12	\$140	\$135	-4%
13	\$140	\$135	-4%
14	\$135	\$130	-4%
15	\$125	\$125	0%
16	\$130	\$130	0%
17	\$90	\$90	0%
18	\$70	\$70	0%
			0%

OZARK

CROP

	AVERAGE SOYBEAN BUSHEL PER ACRE	10 YEAR AVG OF PRICES RECEIVED BY FARMERS	SUM	75/25 SPLIT	CAPITALI- ZATION RATE	ROUNDED TO THE NEAREST \$5	OLD RATE ROUNDED TO THE NEAREST \$5	DIFF	% DIFF
					8.42%				
ACD 1	38	\$10.81	\$410.78	\$102.70	\$1,219.66	\$1,220	\$1,180	\$40	3%
ACD 2	31	\$10.81	\$335.11	\$83.78	\$994.98	\$995	\$965	\$30	3%
ACD 3	23	\$10.81	\$248.63	\$62.16	\$738.21	\$740	\$715	\$25	3%
ACD 4	29	\$10.81	\$313.49	\$78.37	\$930.79	\$930	\$900	\$30	3%
ACD 5	23	\$10.81	\$248.63	\$62.16	\$738.21	\$740	\$715	\$25	3%
ACD 6	15	\$10.81	\$162.15	\$40.54	\$481.44	\$480	\$465	\$15	3%
ACD 7	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 8	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 9	15	\$10.81	\$162.15	\$40.54	\$481.44	\$480	\$465	\$15	3%
ACD 10	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 11	15	\$10.81	\$162.15	\$40.54	\$481.44	\$480	\$465	\$15	3%
ACD 12	28	\$10.81	\$302.68	\$75.67	\$898.69	\$900	\$870	\$30	3%
ACD 13	20	\$10.81	\$216.20	\$54.05	\$641.92	\$640	\$620	\$20	3%
ACD 14	20	\$10.81	\$216.20	\$54.05	\$641.92	\$640	\$620	\$20	3%
ACD 15						\$345	\$345	\$0	0%
ACD 16						\$270	\$270	\$0	0%
ACD 17						\$210	\$210	\$0	0%
ACD 18						\$125	\$125	\$0	0%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DIVISION

OZARK

PASTURE

						OLD RATE ROUNDED TO		
		AVG \$ PER		CAPITAL-	ROUNDED TO	THE NEAREST		
	AUM	AUM	TOTAL	IZATION RATE	NEAREST \$5	\$5	DIFF	% DIFF
				8.00%				
ACD 1	9.8	\$2.82	\$27.64	\$345.45	\$345	\$340	\$5	1%
ACD 2	8	\$2.82	\$22.56	\$282.00	\$280	\$280	\$0	0%
ACD 3	6.1	\$2.82	\$17.20	\$215.03	\$215	\$210	\$5	2%
ACD 4	6.3	\$2.82	\$17.77	\$222.08	\$220	\$220	\$0	0%
ACD 5	6.6	\$2.82	\$18.61	\$232.65	\$235	\$230	\$5	2%
ACD 6	4.4	\$2.82	\$12.41	\$155.10	\$155	\$155	\$0	0%
ACD 7	6.5	\$2.82	\$18.33	\$229.13	\$230	\$225	\$5	2%
ACD 8	6.6	\$2.82	\$18.61	\$232.65	\$235	\$230	\$5	2%
ACD 9	4.2	\$2.82	\$11.84	\$148.05	\$150	\$145	\$5	3%
ACD 10	6.5	\$2.82	\$18.33	\$229.13	\$230	\$225	\$5	2%
ACD 11	3.1	\$2.82	\$8.74	\$109.28	\$110	\$110	\$0	0%
ACD 12	7.8	\$2.82	\$22.00	\$274.95	\$275	\$270	\$5	2%
ACD 13	6.6	\$2.82	\$18.61	\$232.65	\$235	\$230	\$5	2%
ACD 14	5.2	\$2.82	\$14.66	\$183.30	\$185	\$180	\$5	3%
ACD 15	4.4	\$2.82	\$12.41	\$155.10	\$155	\$155	\$0	0%
ACD 16	3.7	\$2.82	\$10.43	\$130.43	\$130	\$130	\$0	0%
ACD 17	3.7	\$2.82	\$10.43	\$130.43	\$130	\$130	\$0	0%
ACD 18					\$75	\$75	\$0	0%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DIVISION

OZARK PINEHIGHSITE

Estimated Timberland Value for Timber Production in Arkansas (High-Site Pine)

Out-of-Pock	et Expenses:									
Age	<u>Activity</u>	Exp	<u>bense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total	
				Deductible	Benefit	excl. Taxes	Fed. Benefit	Net Out.	at Harvest	
0	Prep./Plant	\$	191	No	\$0	\$191	\$0	\$1,918	\$2,110	
3	Spray	\$	64	Yes	\$22	\$41	\$171	\$318	\$166	
8	PCT	\$	126	Yes	\$44	\$82	\$211	\$393	\$219	
18	Fert.	\$	84	Yes	\$29	\$54	\$47	\$88	\$66	
26	Fert.			Yes	\$0	\$0	\$0	\$0	\$0	
Subtotal:			\$464	-	\$96	\$369	\$430	\$2,716	\$2,560	
Annual Expense	es:									
Adminstration/	management.:		\$10	Yes	\$4	\$7	\$32	\$60	\$31	
Subtotal (30 yrs	.):		\$300	u	\$105	\$195	\$334	\$619	\$376	
Total:			\$764	-	\$201	\$564	\$763	\$3,336	\$2,936	
	**Interest rate	e usec	in computations is:	8.00%						

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 30 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal T	Tax Payments:				
Age	Volume	Price	Revenue	Arkansas State	Fed. Income		Net Income	Accrued	Total
				Income Tax@ 7%	<u>Tax @ 35%</u>		After Tax	Interest on Net	Income
16	9.21	\$18.02	\$166	(\$12)	-		\$154	-	-
	(Cords)				(\$58)	1	\$96	\$199	\$295
23	3.78	\$231.11	\$874	(\$61)	-		\$813	-	-
	(MBF Doyle)				(\$306)	1	\$507	\$381	\$888
30	16.45	\$231.11	\$3,801	(\$266)	-		\$3,535	-	-
	(MBF Doyle)				(\$1,168)	1	\$2,367	\$0	\$2,367
l:		-	\$4,842	(\$339)	(\$1,532)		\$2,971	\$579	\$3,550

¹ Less Site Prep/Plant Expense and adjusted for fed. tax deduction.

Step 3 - Estimated Timberland Value per Acre

i. Total meome metuuling ac	ccrued interest on net thinning income to final harvest:	\$3,550				
2. Out-of-pocket expenses ((silvicultural activities and taxes) and accrued interest:	(\$2,936)				
3. Net income before proper	rty tax:	\$614				
4. Present value of net incor	Present value of net income before property tax:					
5. Annual ad valorem prope	rty taxes:					
Property tax rate:	1.00%					
Annual property tax paym	nent:	(\$0.57)				
Annual property tax paym	nent adjusted for fed. inc. tax deduction:	(\$0.37)				
Total property tax payme	nts per harvest cycle:	(\$11)				
Accrued interest on out-o	of-pocket tax payments per harvest cycle:	\$35				

Step 4 - Tax Burden on High Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$17	-	\$11	\$35	\$46
Subtotal:		\$17	-	\$11	\$35	\$46
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$339	-	\$220	-	\$220
Federal Income Tax on harvest revenue @	35.0%	-	\$1,532	\$1,532	-	\$1,532
Subtotal:		\$339	\$1,532	\$1,752	-	\$1,752
Totals:		\$356	\$1,532	\$1,763	\$35	\$1,798
Tax burden as percent of gross revenues:		7.4%	31.6%	36.4%	0.7%	37.1%

OZARK PINEMEDSITE

Estimated Timberland Value for Timber Production in Arkansas (Medium-Site Pine)

Out-of-Pock	et Expenses:							
Age	Activity	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Intere	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant		No	\$0	\$0	\$0	\$0	\$0
3	Spray		Yes	\$0	\$0	\$0	\$0	\$0
8	PCT		Yes	\$0	\$0	\$0	\$0	\$0
18	Fert.		Yes	\$0	\$0	\$0	\$0	\$0
26	Fert.		Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense								
Adminstration/	management.:	\$8	Yes	\$3	\$5	\$31	\$57	\$29
ubtotal (32 yrs	.):	\$256	II	\$90	\$166	\$328	\$609	\$358
Total:		\$256	-	\$90	\$166	\$328	\$609	\$358
	**Interest rate	used in computations is:	8.00%					

Stop 1 Invootmont Ex voluding Annual Bronarty Tax, Harvoot Ago, 22 Vaara)

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal T	ax Payments:			
<u>Age</u>	Volume	Price	Revenue	Arkansas State Income Tax@ 7%	Fed. Income Income Tax@ 35%	Net Income <u>After Tax</u>	Accrued Interest on Net	Total Income
18	8.03	\$18.02	\$145	(\$10)	-	\$135	-	-
	(Cords)				(\$51) ¹	\$84	\$173	\$257
32	13.59	\$231.11	\$3,141	(\$220)	-	\$2,921	-	-
	(MBF Doyle)				(\$1,099) ¹	\$1,822	\$0	\$1,822
al:		-	\$3,286	(\$230)	(\$1,150)	\$1,906	\$173	\$2,079

Less Site Prep/Plant Expense and adjusted for fed. tax deduction.

Step 3 - Estimated Timberland Value per Acre

1. Total Income including	accrued interest on net thinning income to final harvest:	\$2,079
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$358)
3. Net income before prop	perty tax:	\$1,721
4. Present value of net inc	\$144	
5. Annual ad valorem pro	perty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax page	yment:	(\$1.33)
Annual property tax page	yment adjusted for fed. inc. tax deduction:	(\$0.87)
Total property tax payn	nents per harvest cycle:	(\$28)
Accrued interest on out	t-of-pocket tax payments per harvest cycle:	\$102
6. Land value after proper	rty tax (adj. for income tax deduction):	\$133

Step 4 - Tax Burden on Medium Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	Out-of-Pocket Expenses	
		State	Federal	<u>Taxes</u>	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$43	-	\$28	\$102	\$129
Subtotal:		\$43	-	\$28	\$102	\$129
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$230	-	\$149	-	\$149
Federal Income Tax on harvest revenue @	35.0%	-	\$1,150	\$1,150	-	\$1,150
Subtotal:		\$230	\$1,150	\$1,299	-	\$1,299
Totals:		\$273	\$1,150	\$1,327	\$102	\$1,429
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.1%	43.5%

OZARK PINELOWSITE

Estimated Timberland Value for Timber Production in Arkansas (Low Site Pine)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	Expense	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$0	No	\$0	\$0	\$0	\$0	\$0
3	Spray	\$0	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$0	Yes	\$0	\$0	\$0	\$0	\$0
19	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/r	management.:	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal (34 yrs.	.):	\$0	п	\$0	\$0	\$0	\$0	\$0
Total:		\$0	-	\$0	\$0	\$0	\$ 0	\$0
	**Interest rate	used in computations is:	8.00%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 34 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal T	ax Payments:			
<u>Age</u>	<u>Volume</u>	Price	Revenue	Arkansas State Income Tax@ 7%	Fed. Income Income Tax@ 35%	Net Income <u>After Tax</u>	Accrued Interest on Net	Total Income
			\$0	\$0	- \$0	\$0 \$0	- \$0	- \$0
34	11.16	\$231	\$2,579	(\$181)	\$ 5	\$2,398	-	÷-
	(MBF Doyle)				(\$903) ¹	\$1,496	\$0	\$1,496
al:		-	\$2,579	(\$181)	(\$903)	\$1,496	\$0	\$1,496

¹ Less Site Prep/Plant Expense and adjusted for fed. tax deduction.

Step 3 - Estimated Timberland Value per Acre

 Lotal income including a 	ccrued interest on net thinning income to final harvest:	\$1,496
2. Out-of-pocket expenses	(silvicultural activities and taxes) and accrued interest:	\$0
3. Net income before prope	erty tax:	\$1,496
4. Present value of net inco	\$105	
5. Annual ad valorem prope	erty taxes:	
Property tax rate:	1.00%	
Annual property tax payr	nent:	(\$0.98)
Annual property tax payr	nent adjusted for fed. inc. tax deduction:	(\$0.63)
Total property tax payme	ents per harvest cycle:	(\$22)
Accrued interest on out-	\$91	

Step 4 - Tax Burden on Low Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		<u>State</u>	Federal	<u>Taxes</u>	Accrued Interest	<u>Total</u>
Cost-increasing:						
Property taxes on land:		\$33	-	\$22	\$91	\$112
Subtotal:		\$33	-	\$22	\$91	\$112
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$181	-	\$117	-	\$117
Federal Income Tax on harvest revenue @	35.0%	-	\$903	\$903	-	\$903
Subtotal:		\$181	\$903	\$1,020	-	\$1,020
Totals:		\$214	\$903	\$1,041	\$91	\$1,132
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.5%	43.9%

OZARK HARDWOOD

Estimated Timberland Value for Timber Production in Arkansas (MIXED HARDWOOD)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$0	No	\$0	\$0	\$0	\$0	\$0
3	Spray	\$0	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$0	Yes	\$0	\$0	\$0	\$0	\$0
17	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management.:	\$O	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal (40 yrs	.):	\$0	11	\$0	\$0	\$0	\$0	\$0
Total:		\$0	-	\$0	\$0	\$0	\$0	\$0
	**Interest rate	used in computations is:	8.00%					

Step 1 - Investment Expenses, excluding Annual Property Tax--Harvest Age, 40 Years):

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stu	mpage	Harvest	State and Federal	Tax Payments:			
Age	<u>Volume</u>	<u>F</u>	Price	Revenue	Arkansas State	Fed. Income	Net Income	Accrued	Total
					Income Tax@ 7%	<u>Tax @ 35%</u>	After Tax	Interest on Net	Income
40	3.42	\$	26	\$90	(\$6)	-	\$83	-	-
	(Cords)					(\$31)	\$52	\$0	\$52
40	9.78	\$	327	\$3,200	(\$224)	-	\$2,976	-	-
	(MBF Doyle)					(\$1,120)	¹ \$1,856	\$0	\$1,856
Total:		-		\$3,290	(\$230)	(\$1,151)	\$1,908	\$0	\$1,908

Step 3 - Estimated Timberland Value per Acre

1. Total Income including	accrued interest on net thinning income to final harvest:	\$1,908
2. Out-of-pocket expenses	s (silvicultural activities and taxes) and accrued interest:	\$0
3. Net income before prop	erty tax:	\$1,908
4. Present value of net inc	ome before property tax:	\$81
5. Annual ad valorem prop	perty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax pay	/ment:	(\$0.75)
Annual property tax pay	ment adjusted for fed. inc. tax deduction:	(\$0.49)
Total property tax paym	ents per harvest cycle:	(\$19)
Accrued interest on out	-of-pocket tax payments per harvest cycle:	\$124
6 Land value after proper	ty tax (adj. for income tax deduction):	\$75

Step 4 - Tax Burden on MIXED HARDWOOD Site Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	<u>Taxes</u>	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$30	-	\$19	\$124	\$143
Subtotal:		\$30	-	\$19	\$124	\$143
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$230	-	\$150	-	\$150
Federal Income Tax on harvest revenue @	35.0%	-	\$1,151	\$1,151	-	\$1,151
Subtotal:		\$230	\$1,151	\$1,301	-	\$1,301
Totals:		\$260	\$1,151	\$1,320	\$124	\$1,444
Tax burden as percent of gross revenues:		7.9%	35.0%	40.1%	3.8%	43.9%

DCF's Harvest Volume by Region

Ozark Region DCF Classification	Type of Harvest	Age @ Harvest	Species	Product Classific.	Yield/yr	Units	Total Vol. @ Harvest	Percent Harvested	Harvest Volume
Marginal Pine Site	Final Hvst	34	Pine	Sawtimber	1.15	cds	39.1	100.0%	11.16
Medium Pine Site	C. Thinning	18	Pine	Pulpwood	1.49	cds	26.8	30.0%	8.03
Medium Pine Site	Final Hvst	32	Pine	Sawtimber	1.49	cds	47.6	100.0%	13.59
High Pine Site	C. Thinning	16	Pine	Pulpwood	1.92	cds	30.7	30.0%	9.21
High Pine Site	C. Thinning	23	Pine	Pulpwood	1.92	cds	44.1	30.0%	3.78
High Pine Site	Final Hvst	30	Pine	Sawtimber	1.92	cds	57.6	100.0%	16.45
Hardwood Land	Final Harvest	40	HDWD	Sawtimber	244.44	bd. ft.	9.8	100.0%	9.78
Hardwood Land	Final Harvest	40	HDWD	Pulpwood	0.09	cds	3.4	100.0%	3.42

OZARK REGION:

		Cap Rate=	<u>8.00%</u>	
1	ACD#	Previous Value/Acre	Current Value/Acre	Var/Ac
	1	\$60	\$70	33%
	2	\$115	\$110	-4%
	3	\$100	\$100	0%
	4	\$100	\$100	0%
	5	\$70	\$85	21%
	6	\$110	\$105	-5%
	7	\$80	\$80	0%
	8	\$100	\$100	0%
	9	\$105	\$105	0%
	10	\$70	\$70	0%
	11	\$105	\$105	0%
	12	\$125	\$120	-4%
	13	\$120	\$115	-4%
	14	\$110	\$110	0%
	15	\$110	\$105	-5%
	16	\$105	\$105	0%
	17	\$65	\$65	0%
	18	\$60	\$60	0%
				2%

SOUTHWEST

CROP

	AVERAGE SOYBEAN BUSHEL PER ACRE	10 YEAR AVERAGE OF PRICES RECEIVED BY FARMERS	SUM	75/25 SPLIT	CAPITALI- ZATION RATE 8.42%	ROUNDED TO THE NEAREST \$5	OLD RATE ROUNDED TO THE NEAREST \$5	DIFF	% DIFF
ACD 1	36	\$10.81	\$389.16	\$97.29	\$1,155.46	\$1,155	\$1,120	\$35	3%
ACD 2	31	\$10.81	\$335.11	\$83.78	\$994.98	\$995	\$965	\$30	3%
ACD 3	20	\$10.81	\$216.20	\$54.05	\$641.92	\$640	\$620	\$20	3%
ACD 4	27	\$10.81	\$291.87	\$72.97	\$866.60	\$865	\$840	\$25	3%
ACD 5	20	\$10.81	\$216.20	\$54.05	\$641.92	\$640	\$620	\$20	3%
ACD 6	15	\$10.81	\$162.15	\$40.54	\$481.44	\$480	\$465	\$15	3%
ACD 7	29	\$10.81	\$313.49	\$78.37	\$930.79	\$930	\$900	\$30	3%
ACD 8	29	\$10.81	\$313.49	\$78.37	\$930.79	\$930	\$900	\$30	3%
ACD 9	15	\$10.81	\$162.15	\$40.54	\$481.44	\$480	\$465	\$15	3%
ACD 10	29	\$10.81	\$313.49	\$78.37	\$930.79	\$930	\$900	\$30	3%
ACD 11	15	\$10.81	\$162.15	\$40.54	\$481.44	\$480	\$465	\$15	3%
ACD 12	27	\$10.81	\$291.87	\$72.97	\$866.60	\$865	\$840	\$25	3%
ACD 13	21	\$10.81	\$227.01	\$56.75	\$674.02	\$675	\$655	\$20	3%
ACD 14	21	\$10.81	\$227.01	\$56.75	\$674.02	\$675	\$655	\$20	3%
ACD 15						\$345	\$345	\$0	0%
ACD 16						\$270	\$270	\$0	0%
ACD 17						\$210	\$210	\$0	0%
ACD 18						\$125	\$125	\$0	0%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DIVISION

SOUTHWEST

PASTURE

						OLD RATE ROUNDED TO		
		AVG \$ PER		CAPITAL-	ROUNDED TO	THE NEAREST		
	AUM	AUM	TOTAL	IZATION RATE	NEAREST \$5	\$5	DIFF	% DIFF
				8.00%				
ACD 1	9.1	\$2.82	\$25.66	\$320.78	\$320	\$315	\$5	2%
ACD 2	8.1	\$2.82	\$22.84	\$285.53	\$285	\$280	\$5	2%
ACD 3	6.1	\$2.82	\$17.20	\$215.03	\$215	\$210	\$5	2%
ACD 4	7.2	\$2.82	\$20.30	\$253.80	\$255	\$250	\$5	2%
ACD 5	5.2	\$2.82	\$14.66	\$183.30	\$185	\$180	\$5	3%
ACD 6	5.2	\$2.82	\$14.66	\$183.30	\$185	\$180	\$5	3%
ACD 7	6.8	\$2.82	\$19.18	\$239.70	\$240	\$235	\$5	2%
ACD 8	5.5	\$2.82	\$15.51	\$193.88	\$195	\$190	\$5	3%
ACD 9	4	\$2.82	\$11.28	\$141.00	\$140	\$140	\$0	0%
ACD 10	5	\$2.82	\$14.10	\$176.25	\$175	\$175	\$0	0%
ACD 11	4.5	\$2.82	\$12.69	\$158.63	\$160	\$155	\$5	3%
ACD 12	7.9	\$2.82	\$22.28	\$278.48	\$280	\$275	\$5	2%
ACD 13	7.2	\$2.82	\$20.30	\$253.80	\$255	\$250	\$5	2%
ACD 14	6	\$2.82	\$16.92	\$211.50	\$210	\$210	\$0	0%
ACD 15	4.8	\$2.82	\$13.54	\$169.20	\$145	\$145	\$0	0%
ACD 16	3	\$2.82	\$8.46	\$105.75	\$105	\$105	\$0	0%
ACD 17	3	\$2.82	\$8.46	\$105.75	\$105	\$105	\$0	0%
ACD 18					\$75	\$75	\$0	0%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DIVISION

SOUTHWEST PINEHIGHSITE

Estimated Timberland Value for Timber Production in Arkansas (High-Site Pine)

Out of 1 ook	et Expenses:									
Age	<u>Activity</u>	Ex	<u>pense</u>		Fed. Tax	Fed. Tax	Net Expense	Accrued Inte		Acc. Total
					Deductible		<u>excl. Taxes</u>	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$	191		No	\$0	\$191	\$0	\$1,918	\$2,110
3	Spray	\$	64		Yes	\$22	\$41	\$171	\$318	\$166
8	PCT	\$	126		Yes	\$44	\$82	\$211	\$393	\$219
18	Fert.	\$	84		Yes	\$29	\$54	\$47	\$88	\$66
26	Fert.				Yes	\$0	\$0	\$0	\$0	\$0
btotal:			\$464		-	\$96	\$369	\$430	\$2,716	\$2,560
nual Expense										
	management.:		\$10		Yes	\$4	\$7	\$32	\$60	\$31
btotal (30 yrs	.):		\$300		п	\$105	\$195	\$334	\$619	\$376
otal:			\$764		-	\$201	\$564	\$763	\$3,336	\$2,936
	**Interest rate	I and	d State T	ax Treatme						
Stand	Harvest		mpage	Harvest	State and Federal Ta					
									Acoruad	
Age	<u>Volume</u>	<u>1</u>	Price	Revenue	Arkansas State Income Tax@ 7%	Fed. Income <u>Tax @ 35%</u>		Net Income <u>After Tax</u>	Accrued Interest on Net	Total Income
<u>Age</u> 16	<u>Volume</u> 9.21	<u>-</u> \$	<u>Price</u> 21	<u>Revenue</u> \$190						I otal Income
					Income Tax@ 7%		1	<u>After Tax</u>		
	9.21				Income Tax@ 7%	<u>Tax @ 35%</u> -	1	<u>After Tax</u> \$177	Interest on Net	Income
16	9.21 (Cords)	\$	21	\$190	<u>Income Tax@ 7%</u> (\$13)	<u>Tax @ 35%</u> -	1	<u>After Tax</u> \$177 \$110	Interest on Net	Income -
16	9.21 (Cords) 3.78	\$	21	\$190	<u>Income Tax@ 7%</u> (\$13)	<u>Tax @ 35%</u> - (\$67) -		<u>After Tax</u> \$177 \$110 \$898	Interest on Net - \$228 -	<u>Income</u> - \$338 -
16 23	9.21 (Cords) 3.78 (MBF Doyle)	\$ \$	21 255	\$190 \$965	<u>Income Tax@ 7%</u> (\$13) (\$68)	<u>Tax @ 35%</u> - (\$67) -		<u>After Tax</u> \$177 \$110 \$898 \$560	Interest on Net - \$228 -	<u>Income</u> - \$338 -

¹ Less pro-rated share of Site Prep/Plant Expense and adjusted for fed. tax deduction.

SOUTHWEST PINEHIGHSITE

Step 3 - Estimated Timberland Value per Acre

1. Total Income including	accrued interest on net thinning income to final harvest:	\$3,915
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$2,936)
3. Net income before prop	perty tax:	\$979
4. Present value of net inc	come before property tax:	\$98
5. Annual ad valorem pro	perty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax page	yment:	(\$0.90)
Annual property tax page	yment adjusted for fed. inc. tax deduction:	(\$0.59)
Total property tax payn	nents per harvest cycle:	(\$18)
Accrued interest on our	t-of-pocket tax payments per harvest cycle:	\$56
6. Land value after proper	rty tax (adj. for income tax deduction):	\$90

Step 4 - Tax Burden on High Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		<u>State</u>	Federal	<u>Taxes</u>	Accrued Interest	<u>Total</u>
Cost-increasing:						
Property taxes on land:		\$27	-	\$18	\$56	\$74
Subtotal:		\$27	-	\$18	\$56	\$74
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$375	-	\$243	-	\$243
Federal Income Tax on harvest revenue @	35.0%	-	\$1,710	\$1,710	-	\$1,710
Subtotal:		\$375	\$1,710	\$1,954	-	\$1,954
Totals:		\$402	\$1,710	\$1,972	\$56	\$2,028
Tax burden as percent of gross revenues:		7.5%	32.0%	36.8%	1.0%	37.9%

SOUTHWEST PINEMEDSITE

Estimated Timberland Value for Timber Production in Arkansas (Medium-Site Pine)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
-			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant		No	\$0	\$0	\$0	\$0	\$0
3	Spray		Yes	\$0	\$0	\$0	\$0	\$0
8	PCT		Yes	\$0	\$0	\$0	\$0	\$0
17	Fert.	\$ -	Yes	\$0	\$0	\$0	\$0	\$0
26	Fert.	\$ -	Yes	\$0	\$0	\$0	\$0	\$0
total:		\$0	-	\$0	\$0	\$0	\$0	\$0
ual Expense	es:							
lminstration/r	management.:	\$8	Yes	\$3	\$5	\$31	\$57	\$29
total (32 yrs.	.):	\$256	"	\$90	\$166	\$328	\$609	\$358
otal:		\$256	-	\$90	\$166	\$328	\$609	\$358
	**Interest rate	e used in computations is:	8.00%					

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal 1	ax Payments:				
<u>Age</u>	Volume	Price	<u>Revenue</u>	Arkansas State Income Tax@ 7%	Fed. Income <u>Tax @ 35%</u>		Net Income <u>After Tax</u>	Accrued Interest on Net	Total <u>Income</u>
18	8.03	\$20.67	\$166	(\$12)	-		\$154	-	-
	(Cords)				(\$58)	1	\$96	\$199	\$295
32	13.59	\$255.11	\$3,467	(\$243)	-		\$3,224	-	-
	(MBF Doyle)				(\$1,213)	1	\$2,011	\$0	\$2,011
l:		-	\$3,633	(\$254)	(\$1,272)		\$2,107	\$199	\$2,306

¹ Less pro-rated share of Site Prep/Plant Expense and adjusted for fed. tax deduction.

SOUTHWEST PINEMEDSITE

Step 3 - Estimated Timberland Value per Acre

1. Total Income including	accrued interest on net thinning income to final harvest:	\$2,306
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$358)
3. Net income before prop	perty tax:	\$1,948
Present value of net inc	come before property tax:	\$163
5. Annual ad valorem prop	perty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax pay	yment:	(\$1.51)
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$0.98)
Total property tax paym	nents per harvest cycle:	(\$31)
Accrued interest on out	t-of-pocket tax payments per harvest cycle:	\$115
6. Land value after proper	rty tax (adj. for income tax deduction):	\$151

Step 4 - Tax Burden on Medium Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	<u>Taxes</u>	Accrued Interest	<u>Total</u>
Cost-increasing:						
Property taxes on land:		\$48	-	\$31	\$115	\$146
Subtotal:		\$48	-	\$31	\$115	\$146
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$254	-	\$165	-	\$165
Federal Income Tax on harvest revenue @	35.0%	-	\$1,272	\$1,272	-	\$1,272
Subtotal:		\$254	\$1,272	\$1,437	-	\$1,437
Totals:		\$303	\$1,272	\$1,468	\$115	\$1,583
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.2%	43.6%

SOUTHWEST PINELOWSITE

Estimated Timberland Value for Timber Production in Arkansas (Low Site Pine)

	et Expenses:							
<u>Age</u>	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Intere	est on	Acc. Total
			Deductible	<u>Benefit</u>	<u>excl. Taxes</u>	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$0	No	\$0	\$0	\$0	\$0	\$0
3 Spray		\$0	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$0	Yes	\$0	\$0	\$0	\$0	\$0
19	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ibtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nual Expense	es:							
dminstration/	management.:	\$0	Yes	\$0	\$0	\$0	\$0	\$0
ıbtotal (34 yrs	.):	\$0	II	\$0	\$0	\$0	\$0	\$0
otal:		\$0	-	\$0	\$0	\$0	\$0	\$0
	**Interest rate	used in computations is:	8.00%					

Step. 2 - Revenues and Federal and State Tax Treatment

Stand	Harvest	Stumpage	Harvest	State and Federal T	ax Payments:			
<u>Age</u>	<u>Volume</u>	<u>Price</u>	Revenue	Arkansas State Income Tax@ 7%	Fed. Income <u>Tax @ 35%</u>	Net Income <u>After Tax</u>	Accrued Interest on Net	Total Income
		\$21	\$0	\$O	-	\$O	-	-
	(Cords)				\$O	\$0	\$0	\$0
34	11.16	\$255	\$2,847	(\$199)		\$2,647	-	-
	(MBF Doyle)				(\$996) ¹	\$1,651	\$0	\$1,651
al:		-	\$2,847	(\$199)	(\$996)	\$1,651	\$0	\$1,651

SOUTHWEST PINELOWSITE

Step 3 - Estimated Timberland Value per Acre

1. Total Income including	accrued interest on net thinning income to final harvest:	\$1,651
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	\$0
3. Net income before prop	perty tax:	\$1,651
4. Present value of net inc	come before property tax:	\$116
5. Annual ad valorem pro	perty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax page	yment:	(\$1.08)
Annual property tax page	yment adjusted for fed. inc. tax deduction:	(\$0.70)
Total property tax paym	nents per harvest cycle:	(\$24)
Accrued interest on out	t-of-pocket tax payments per harvest cycle:	\$100
		• • • •
6. Land value after proper	rty tax (adj. for income tax deduction):	\$108

Step 4 - Tax Burden on Low Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$37	-	\$24	\$100	\$124
Subtotal:		\$37	-	\$24	\$100	\$124
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$199	-	\$130	-	\$130
Federal Income Tax on harvest revenue @	35.0%	-	\$996	\$996	-	\$996
Subtotal:		\$199	\$996	\$1,126	-	\$1,126
Totals:		\$236	\$996	\$1,150	\$100	\$1,250
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.5%	43.9%

SOUTHWEST HARDWOOD

Estimated Timberland Value for Timber Production in Arkansas (MIXED HARDWOOD)

Step 1 - Investi	ment Expenses,	excluding Annual Property Tax	Harvest Age, 40 Yea	ars):				
Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			Deductible	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$ 0	No	\$0	\$0	\$0	\$0	\$0
3	Spray	\$ 0	Yes	\$0	\$0	\$0	\$0	\$0
8	PCT	\$ 0	Yes	\$0	\$0	\$0	\$0	\$0
17	Fert.	\$ 0	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
Subtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
Annual Expense	es:							
Adminstration/	management .:	\$0	Yes	\$0	\$0	\$0	\$0	\$0
Subtotal (40 yrs	.):	\$0	H	\$0	\$0	\$0	\$0	\$0
Total:		\$0	-	\$0	\$0	\$0	\$0	\$0
	**Interest rate	e used in computations is:	8.00%					

Step. 2 - Revenues and Federal and State Tax Treatment

Sta	and Ha	rvest	Stur	npage	Harvest	State and Federal	Tax Payments:				
A	<u>vge</u> <u>Vo</u>	lume	<u>P</u>	<u>rice</u>	Revenue	Arkansas State	Fed. Income		Net Income	Accrued	Total
						Income Tax@ 7%	<u>Tax @ 35%</u>		<u>After Tax</u>	Interest on Net	Income
4(0	3.42	\$	40	\$138	(\$10)	-		\$129	-	-
	(C	ords)					(\$48)		\$80	\$0	\$80
40	C	9.78	\$	360	\$3,520	(\$246)	- -		\$3,273	-	-
	(MBF	Doyle)					(\$1,232)	1	\$2,041	\$0	\$2,041
Total:			-		\$3,658	(\$256)	(\$1,280)		\$2,121	\$0	\$2,121

SOUTHWEST HARDWOOD

Step 3 - Estimated Timberland Value per Acre

1. Total Income including	accrued interest on net thinning income to final harvest:	\$2,121
2. Out-of-pocket expenses	s (silvicultural activities and taxes) and accrued interest:	\$0
3. Net income before prop	perty tax:	\$2,121
4. Present value of net inc	come before property tax:	\$90
5. Annual ad valorem prop	perty taxes:	
Property tax rate:	1.00%	
Annual property tax pay	yment:	(\$0.83)
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$0.54)
Total property tax paym	nents per harvest cycle:	(\$22)
Accrued interest on out	t-of-pocket tax payments per harvest cycle:	\$138
6. Land value after proper	rty tax (adj. for income tax deduction):	\$83

Step 4 - Tax Burden on HARDWOOD Site Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$33	-	\$22	\$138	\$159
Subtotal:		\$33	-	\$22	\$138	\$159
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$256	-	\$166	-	\$166
Federal Income Tax on harvest revenue @	35.0%	-	\$1,280	\$1,280	-	\$1,280
Subtotal:		\$256	\$1,280	\$1,447	-	\$1,447
Totals:		\$289	\$1,280	\$1,468	\$138	\$1,606
Tax burden as percent of gross revenues:		7.9%	35.0%	40.1%	3.8%	43.9%

DCF's Harvest Volume by Region

SW Region:	Type of	Age @		Product			Total Vol. @	Percent	Harvest
DCF Classification	Harvest	Harvest	Species	Classific.	Yield/yr	Units	Harvest	Harvested	Volume
Marginal Pine Site	Final Hvst	34	Pine	Sawtimber	1.15	cds	39.1	100.0%	11.16
Medium Pine Site	C. Thinning	18	Pine	Pulpwood	1.49	cds	26.8	30.0%	8.03
Medium Pine Site	Final Hvst	32	Pine	Sawtimber	1.49	cds	47.6	100.0%	13.59
High Pine Site	C. Thinning	16	Pine	Pulpwood	1.92	cds	30.7	30.0%	9.21
High Pine Site	C. Thinning	23	Pine	Sawtimber	1.92	cds	44.1	30.0%	3.78
High Pine Site	Final Hvst	30	Pine	Sawtimber	1.92	cds	57.6	100.0%	16.45
Hardwood Land	Final Harvest	40	HDWD	Sawtimber	244.44	bd. ft.	9.8	100.0%	9.78
Hardwood Land	Final Harvest	40	HDWD	Pulpwood	0.09	cds	3.4	100.0%	3.42

SOUTHWEST FINALVALUE

SOUTHWEST REGION TIMBER:

Cap Rate= <u>8.00%</u>

	Previous	Current	
ACD#	Value/Acre	Value/Acre	Var/Ac
1	\$85	\$85	0%
2	\$105	\$100	-5%
3	\$155	\$150	-3%
4	\$110	\$105	-5%
5	\$85	\$85	0%
6	\$155	\$150	-3%
7	\$100	\$95	-5%
8	\$85	\$85	0%
9	\$125	\$120	-4%
10	\$80	\$85	6%
11	\$120	\$115	-4%
12	\$130	\$130	0%
13	\$145	\$140	-3%
14	\$150	\$145	-3%
15	\$140	\$135	-4%
16	\$135	\$130	-4%
17	\$85	\$85	0%
18	\$70	\$70	0%
<u>k</u>			-2%

CROP AND PASTURE RATES

Сгор		Rental Rate Multiplier	Pasture	Pasture Cap 8.00%	Rate Mult	tiplier			Capitalization Rate		
		25.00%		Delta States	LA	MS		Reported			- /
		8.42% Crop Cap Rate	200 2009**	8	27 na	18.5 na	22.75 19	21.5 19	Safe Rate	Crop	Pasture
		Multiplier							10 Year Average of		
									the 30 Year T-Bond	2.92%	2.92%
soybean pri	ces								Industry Risk Rate	3.50%	3.50%
2011	12.3								Management Rate	2.00%	1.00%
2012	14.3								Ū		
2013	13.1										
2014	10.6		-	ATE AVERAGE	AUM	PASTURE					
2015	9.46		7.7	DELTA		16	2011				
2016	9.83	• •	5.3	OUACHITA		18	2012			0.400/	7.400/
2017	9.77	Soybean	6	OZARK		18	2013		Capitalization Rate	8.42%	7.42%
2018	8.81	average	6.8	SOUTHWEST		18	2014			8.42%	8.00% *
2019	8.87	price	6.5	AVERAGE		18	2015				
2020	11.1	multiplier				20	2016				
	\$10.81 10 yr	\$10.81				18	2017				
				AVG AUM RE	NTAL	18	2018				
						19	2019		* Articenese Code 20 20		the equitalization rate
				ACRE \$2.82	1	19	2020)			, the capitalization rate this section shall not be
				\$2.82		18.2	2 10 yr avera	age			an twelve percent (12%).

Timber Mart-South Stumpage Price Data

YEAR	Doyle Pi Sawti	ne imber	Do	oyle Oa Sawti	ak imb	er	yle ked rdwood			verage Irdwood			l Cord ne wood	Standard Hard Pulpy	wood
	Reg. 1	Reg. 2	I	Reg. 1		Reg. 2	Reg. 1	Reg. 2	l	Reg. 1	Reg. 2	Reg. 1	Reg. 2	Reg. 1	Reg. 2
2011	\$ 253.34	\$ 221.63	\$	298.11	\$	281.84	\$ 222.08	\$ 182.26	\$	260.09	\$ 232.05	\$21.12	\$ 19.32	\$ 29.12	\$ 21.58
2012	\$ 237.48	\$ 208.76	\$	318.85	\$	303.28	\$ 254.45	\$ 182.35	\$	286.65	\$ 242.81	\$ 24.09	\$ 17.47	\$ 38.34	\$ 17.57
2013	\$ 251.42	\$ 214.18	\$	386.49	\$	299.78	\$ 258.83	\$ 230.91	\$	322.66	\$ 265.34	\$ 24.90	\$ 19.08	\$ 41.56	\$ 16.33
2014	\$ 259.83	\$ 234.61	\$	486.33	\$	359.54	\$ 299.60	\$ 231.61	\$	392.96	\$ 295.58	\$ 23.83	\$ 19.51	\$ 55.27	\$ 28.51
2015	\$ 268.55	\$ 244.40	\$	486.94	\$	388.33	\$ 301.00	\$ 270.99	\$	393.97	\$ 329.66	\$ 21.52	\$ 19.59	\$ 51.65	\$ 35.15
2016	\$ 250.78	\$ 244.83	\$	475.30	\$	426.13	\$ 344.31	\$ 343.96	\$	409.81	\$ 385.04	\$ 19.78	\$ 17.18	\$ 39.79	\$ 30.39
2017	\$ 243.98	\$ 227.48	\$	463.31	\$	401.63	\$ 282.28	\$ 335.91	\$	372.79	\$ 368.77	\$ 17.07	\$ 16.80	\$ 36.16	\$ 24.97
2018	\$ 249.83	\$ 231.42	\$	474.86	\$	432.69	\$ 302.23	\$ 354.03	\$	388.54	\$ 393.36	\$ 18.68	\$ 17.58	\$ 40.17	\$ 30.10
2019	\$ 272.06	\$ 246.21	\$	498.23	\$	474.69	\$ 349.30	\$ 349.48	\$	423.76	\$ 412.08	\$ 19.94	\$ 18.63	\$ 49.24	\$ 34.22
2020	\$ 263.87	\$ 237.59	\$	387.67	\$	389.83	\$ 308.79	\$ 305.99	\$	348.23	\$ 347.91	\$ 15.81	\$ 14.98	\$ 22.62	\$ 23.06
10 YEAR AVG	\$ 255.11	\$ 231.11	\$	427.61	\$	375.77	\$ 292.29	\$ 278.75	\$	359.95	\$ 327.26	\$ 20.67	\$ 18.02	\$ 40.39	\$ 26.19

FORESTRY RELATED COSTS

						10 Year
Forestry Costs:	2012	2014	2016	2018	2020	Average
Planting by Hand	0.1144	0.1122	0.1	0.15	0.13	
Planting by Machine	0.2411	0.14	0.14	0.1900	0.17	
Avg	0.17775	0.1261	0.12	0.17	0.15	
Cost for 604 tree/ac	\$ 107.36	\$ 76.16	\$ 72.48	\$ 102.68	\$ 90.60	
Site Prep	\$ 116.01	\$ 66.09	\$ 97.28	\$ 127.42	\$ 110.23	
Total Establishment	\$ 223.37	\$ 142.25	\$ 169.76	\$ 230.10	\$ 200.83	\$ 191.37
Spraying	\$ 55.12	\$ 29.89	\$ 69.53	\$ 77.09	\$ 87.08	\$ 63.74
PCT	\$ 50.27	*	\$ 159.44	\$ 148.40	\$ 144.05	\$ 125.54
Fertilization	\$ 86.33	\$ 79.49	\$ 70.41	\$ 94.79	\$ 87.83	\$ 83.77
						\$ 464

NOTE: Timber Costs are acquired from a independent source and are only calculated for even numbered years and published in odd numbered years. * Data source reported that not enough data was present for a PCT number for this years report. An avergage of the last four reports was used.

Timber Growth/Yield Information



Hardwood Yields (2/3):

		Cubic Ft.	Bd. Ft. per	Annual
Species	Site Index	Growth	Cub. Ft.	Growth
W. OAK	70	60	4.07	244.44

Note: (1) Sec. 537.25, Subpart C - Ordination System, Productivity Tables, Table 1, Loblolly Pine, Natural Soil Conservation Service, Little Rock, ARK., amended 11/83.

(2) Sec. 537.25, Subpart C - Ordination System, Productivity Tables, Cottonwood, Natural Soil Conservation Service, Little Rock, ARK., amended 7/87.

(3) Cubic foot volume converted to cords by using 74 cords/cubic feet. The factor of 74 based on 5,200 lbs per cord (Converting Factors for Southern Pine Products, D. L. Williams & W.C. Hopkins, Louisiana State University & USFS Southern Forest Experimental Station). Mart South)