

2017 Cropland, Pastureland and Timberland Valuation for Property Tax Purposes



# Arkansas Assessment Coordination Department

October 15, 2016

## **STATE OF ARKANSAS**



## ASSESSMENT COORDINATION DEPARTMENT

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Bear Chaney Director

October 15, 2016

To: The Honorable David L. Branscum To: The Honorable Bill Sample

This 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 15<sup>th</sup> of each year.

Contained within this 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 2017.

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,

Robert McGee Division Administrator Arkansas Assessment Coordination Department 501-324-9114 <u>Robert.McGee@acd.state.ar.us</u>

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Guidelines For The Mass Appraisal Of Cropland,

Timberland, and Pastureland In The State Of Arkansas

Developed By The State Of Arkansas Assessment Coordination Department 1996 in compliance with Arkansas Code 26-26-407

Revised 2016

## 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 Department 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 Department 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 2017 values are based on data that was captured through the end of 2015, compiled and then published in the third quarter of 2016, applied to our formulas in 2016 and released for use in the reappraisal cycles ending in 2017.

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 \$10.54. 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.

	AVERAGE SOYBEAN BUSHEL PER ACRE	10 YEAR AV- ERAGE OF PRICES RE- CEIVED BY FARMERS	SUM	75/25 SPLIT	APPLIED CAPITALI- ZATION RATE	ROUNDED TO THE NEAREST \$5
					9.38%	
ACD 1	39	\$10.54	\$411.06	\$102.77	\$1,095.58	\$1,095
ACD 2	35	\$10.54	\$368.90	\$92.23	\$983.21	\$985
ACD 3	18	\$10.54	\$189.72	\$47.43	\$505.65	\$505

## 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.

	AUM	AVG \$ PER AUM	TOTAL	APPLIED CAPITAL- IZATION RATE	ROUNDED TO NEAREST \$5
				8.38%	
ACD 1	9.9	\$2.82	\$27.92	\$333.15	\$335
ACD 2	8.4	\$2.82	\$23.69	\$282.67	\$285
ACD 3	5.2	\$2.82	\$14.66	\$174.99	\$175

## 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 Department, 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 to 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 and CRP lands 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? The BOE may reclassify land 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.

CROP	

	AVERAGE SOYBEAN BUSHEL PER ACRE	10 YEAR AVERAGE OF PRICES RECEIVED BY FARMERS	SUM	75/25 SPLIT	APPLIED CAPITALI- ZATION RATE	ROUNDED TO THE NEAREST \$5	OLD RATE ROUNDED TO THE NEAREST \$5	DIFF	
	ACKE	FARMERS	30IVI	7 5/25 SF LIT	9.38%	NEAREST \$5	φ <b>0</b>	DIFF	% DIFF
ACD 1	39	\$10.54	\$411.06	\$102.77	\$1,095.58	\$1,095	\$1,040	\$55	5%
ACD 2	35	\$10.54	\$368.90	\$92.23	\$983.21	\$985	\$935	\$50	5%
ACD 3	18	\$10.54	\$189.72	\$47.43	\$505.65	\$505	\$480	\$25	5%
ACD 4	32	\$10.54	\$337.28	\$84.32	\$898.93	\$900	\$855	\$45	5%
ACD 5	30	\$10.54	\$316.20	\$79.05	\$842.75	\$845	\$800	\$45	6%
ACD 6	14	\$10.54	\$147.56	\$36.89	\$393.28	\$395	\$375	\$20	5%
ACD 7	29	\$10.54	\$305.66	\$76.42	\$814.66	\$815	\$775	\$40	5%
ACD 8	29	\$10.54	\$305.66	\$76.42	\$814.66	\$815	\$775	\$40	5%
ACD 9	14	\$10.54	\$147.56	\$36.89	\$393.28	\$395	\$375	\$20	5%
ACD 10	29	\$10.54	\$305.66	\$76.42	\$814.66	\$815	\$775	\$40	5%
ACD 11	14	\$10.54	\$147.56	\$36.89	\$393.28	\$395	\$375	\$20	5%
ACD 12	31	\$10.54	\$326.74	\$81.69	\$870.84	\$870	\$825	\$45	5%
ACD 13	24	\$10.54	\$252.96	\$63.24	\$674.20	\$675	\$640	\$35	5%
ACD 14	22	\$10.54	\$231.88	\$57.97	\$618.02	\$620	\$585	\$35	6%
ACD 15						\$300	\$285	\$15	5%
ACD 16						\$245	\$235	\$10	4%
ACD 17						\$175	\$170	\$5	3%
ACD 18						\$120	\$115	\$5	4%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

## DELTA

## PASTURE

	AUM	AVG \$ PER AUM	TOTAL	APPLIED CAPITAL- IZATION RATE	ROUNDED TO NEAREST \$5	OLD RATE ROUNDED TO THE NEAREST \$5	DIFF	% DIFF
				8.38%				
ACD 1	9.9	\$2.82	\$27.92	\$333.15	\$335	\$325	\$10	3%
ACD 2	8.4	\$2.82	\$23.69	\$282.67	\$285	\$275	\$10	4%
ACD 3	5.2	\$2.82	\$14.66	\$174.99	\$175	\$170	\$5	3%
ACD 4	7.4	\$2.82	\$20.87	\$249.02	\$250	\$240	\$10	4%
ACD 5	7.1	\$2.82	\$20.02	\$238.93	\$240	\$230	\$10	4%
ACD 6	4.1	\$2.82	\$11.56	\$137.97	\$140	\$135	\$5	4%
ACD 7	6.7	\$2.82	\$18.89	\$225.47	\$225	\$220	\$5	2%
ACD 8	5.5	\$2.82	\$15.51	\$185.08	\$185	\$180	\$5	3%
ACD 9	4	\$2.82	\$11.28	\$134.61	\$135	\$130	\$5	4%
ACD 10	5.5	\$2.82	\$15.51	\$185.08	\$185	\$180	\$5	3%
ACD 11	3.5	\$2.82	\$9.87	\$117.78	\$120	\$115	\$5	4%
ACD 12	8.8	\$2.82	\$24.82	\$296.13	\$295	\$290	\$5	2%
ACD 13	7.7	\$2.82	\$21.71	\$259.12	\$260	\$250	\$10	4%
ACD 14	6.2	\$2.82	\$17.48	\$208.64	\$210	\$205	\$5	2%
ACD 15	4.7	\$2.82	\$13.25	\$158.16	\$160	\$155	\$5	3%
ACD 16	4.7	\$2.82	\$13.25	\$158.16	\$160	\$155	\$5	3%
ACD 17	4.7	\$2.82	\$13.25	\$158.16	\$160	\$155	\$5	3%
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	pense	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
				<b>Deductible</b>	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$	174	No	\$0	\$174	\$0	\$1,743	\$1,917
3	Spray	\$	52	Yes	\$18	\$34	\$140	\$260	\$136
8	PCT	\$	89	Yes	\$31	\$58	\$150	\$278	\$155
18	Fert.	\$	83	Yes	\$29	\$54	\$47	\$87	\$65
26	Fert.			Yes	\$0	\$0	\$0	\$0	\$0
Subtotal:			\$398	-	\$79	\$320	\$337	\$2,369	\$2,273
Annual Expense	es:								
Adminstration/r	management.:		\$10	Yes	\$4	\$7	\$32	\$60	\$31
Subtotal (30 yrs.	.):		\$300	ľ	\$105	\$195	\$334	\$619	\$376
Total:			\$698	-	\$184	\$515	\$671	\$2,988	\$2,649
	**Interest rate	e useo	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

Stan	d Harvest	Stu	mpage	Harvest	State and Federal 1	Tax Payments:				
Age	<u>e 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	\$	23	\$214	(\$15)	-		\$199	-	-
	(Cords)					(\$75)	1	\$124	\$256	\$380
23	3.78	\$	285	\$1,077	(\$75)	-		\$1,001	-	-
	(MBF Doyle)					(\$377)	1	\$624	\$469	\$1,093
30	16.45	\$	285	\$4,681	(\$328)	-		\$4,354	-	-
	(MBF Doyle)					(\$1,499)	1	\$2,855	\$0	\$2,855
al:		-		\$5,972	(\$418)	(\$1,951)		\$2,979	\$725	\$4,328

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

<ol> <li>Total Income including</li> </ol>	\$4,328	
2. Out-of-pocket expenses	(\$2,649)	
3. Net income before prop	\$1,680	
4. Present value of net inc	\$168	
5. Annual ad valorem prop	perty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax pay	/ment:	(\$1.55)
Annual property tax pay	ment adjusted for fed. inc. tax deduction:	(\$1.01)
Total property tax paym	nents per harvest cycle:	(\$30)
Accrued interest on out	\$96	

## 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:		\$46	-	\$30	\$96	\$126
Subtotal:		\$46	-	\$30	\$96	\$126
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$418	-	\$272	-	\$272
Federal Income Tax on harvest revenue @	35.0%	-	\$1,951	\$1,951	-	\$1,951
Subtotal:		\$418	\$1,951	\$2,222	-	\$2,222
Totals:		\$465	\$1,951	\$2,253	\$96	\$2,349
Tax burden as percent of gross revenues:		7.8%	32.7%	37.7%	1.6%	39.3%

### 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
			<b>Deductible</b>	<b>Benefit</b>	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	II	\$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:				
Age	Volume	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
18	8.03	\$23.23	\$186	(\$13)	-		\$173	-	-
	(Cords)				(\$65)	1	\$108	\$223	\$332
32	13.59	\$284.61	\$3,868	(\$271)	-		\$3,597	-	-
	(MBF Doyle)				(\$1,354)	1	\$2,243	\$0	\$2,243
al:		-	\$4,055	(\$284)	(\$1,419)		\$2,352	\$223	\$2,575

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

1. Total Income including	accrued interest on net thinning income to final harvest:	\$2,575				
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$358)				
3. Net income before prop	perty tax:	\$2,217				
4. Present value of net inc	Present value of net income before property tax:					
5. Annual ad valorem proj	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	/ment:	(\$1.72)				
Annual property tax pay	ment adjusted for fed. inc. tax deduction:	(\$1.12)				
Total property tax paym	nents per harvest cycle:	(\$36)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
6. Land value after proper	\$172					

## 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:		\$55	-	\$36	\$131	\$167
Subtotal:		\$55	-	\$36	\$131	\$167
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$284	-	\$184	-	\$184
Federal Income Tax on harvest revenue @	35.0%	-	\$1,419	\$1,419	-	\$1,419
Subtotal:		\$284	\$1,419	\$1,604	-	\$1,604
Totals:		\$339	\$1,419	\$1,639	\$131	\$1,770
Tax burden as percent of gross revenues:		8.4%	35.0%	40.4%	3.2%	43.7%

### 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
			<b>Deductible</b>	<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
Subtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
Annual 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	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

Stan	d 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>	<u>After Tax</u>	Interest on Net	Income
		\$23	\$0	\$0	-	\$0	-	-
	(Cords)				\$0	\$0	\$0	\$0
34	11.16	\$285	\$3,176	(\$222)		\$2,953	-	-
	(MBF Doyle)				(\$1,112) <sup>1</sup>	\$1,842	\$0	\$1,842
Total:		-	\$3,176	(\$222)	(\$1,112)	\$1,842	\$0	\$1,842

1. Total Income including	accrued interest on net thinning income to final harvest:	\$1,842				
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	\$0				
3. Net income before prop	perty tax:	\$1,842				
4. Present value of net inc	Present value of net income before property tax:					
5. Annual ad valorem proj	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	yment:	(\$1.20)				
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$0.78)				
Total property tax paym	nents per harvest cycle:	(\$27)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
6. Land value after proper	6. 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	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$41	-	\$27	\$112	\$138
Subtotal:		\$41	-	\$27	\$112	\$138
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$222	-	\$144	-	\$144
Federal Income Tax on harvest revenue @	35.0%	-	\$1,112	\$1,112	-	\$1,112
Subtotal:		\$222	\$1,112	\$1,256	-	\$1,256
Totals:		\$263	\$1,112	\$1,283	\$112	\$1,394
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
			<b>Deductible</b>	<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
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	F	Price	Revenue	Arkansas State Income Tax@ 7%	Fed. Income Tax @ 35%		Net Income <u>After Tax</u>	Accrued Interest on Net	Total Income
40	3.42 (Cords)	\$	31	\$107	(\$8)	- (\$38)		\$100 \$62	- \$0	- \$62
40	9.78	\$	274	\$2,678	(\$187)	-		\$2,491	-	-
	(MBF Doyle)					(\$937)	1	\$1,553	\$0	\$1,553
Total:		-		\$2,786	(\$195)	(\$975)		\$1,616	\$0	\$1,616

1. Total Income including	accrued interest on net thinning income to final harvest:	\$1,616				
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	\$0				
3. Net income before prop	perty tax:	\$1,616				
4. Present value of net inc	. Present value of net income before property tax:					
5. Annual ad valorem pro	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax page	Annual property tax payment:					
Annual property tax page	yment adjusted for fed. inc. tax deduction:	(\$0.41)				
Total property tax payn	nents per harvest cycle:	(\$17)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
6. Land value after proper	\$63					

## Step 4 - Tax Burden on MIXED HARDWOOD Site Forest Land

		Total Tax	Payments:	Out-of-P	Out-of-Pocket Expenses	
		State	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$25	-	\$17	\$105	\$121
Subtotal:		\$25	-	\$17	\$105	\$121
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$195	-	\$127	-	\$127
Federal Income Tax on harvest revenue @	35.0%	-	\$975	\$975	-	\$975
Subtotal:		\$195	\$975	\$1,102	-	\$1,102
Totals:		\$220	\$975	\$1,118	\$105	\$1,223
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= <u>8.00%</u>

	Previous	Current	
ACD#	Value/Acre	alue/Acre	Var/Ac
1	\$65	\$65	0%
2	\$95	\$95	0%
3	\$90	\$85	-6%
4	\$100	\$95	-5%
5	\$60	\$65	8%
6	\$110	\$105	-5%
7	\$75	\$75	0%
8	\$85	\$85	0%
9	\$125	\$120	-4%
10	\$100	\$100	0%
11	\$135	\$130	-4%
12	\$135	\$130	-4%
13	\$165	\$155	-6%
14	\$165	\$155	-6%
15	\$160	\$150	-6%
16	\$170	\$155	-9%
17	\$100	\$100	0%
18	\$65	\$65	0%
			-3%

## OUACHITA

CROP

	AVERAGE 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
		• · · ·	• · · · · · ·	• • • •	9.38%	• • • •	• • • • •	·	
ACD 1	39	\$10.54	\$411.06	\$102.77	\$1,095.58	\$1,095	\$1,040	\$55	5%
ACD 2	31	\$10.54	\$326.74	\$81.69	\$870.84	\$870	\$825	\$45	5%
ACD 3	18	\$10.54	\$189.72	\$47.43	\$505.65	\$505	\$480	\$25	5%
ACD 4	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 5	18	\$10.54	\$189.72	\$47.43	\$505.65	\$505	\$480	\$25	5%
ACD 6	18	\$10.54	\$189.72	\$47.43	\$505.65	\$505	\$480	\$25	5%
ACD 7	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 8	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 9	18	\$10.54	\$189.72	\$47.43	\$505.65	\$505	\$480	\$25	5%
ACD 10	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 11	15	\$10.54	\$158.10	\$39.53	\$421.38	\$420	\$400	\$20	5%
ACD 12	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 13	20	\$10.54	\$210.80	\$52.70	\$561.83	\$560	\$535	\$25	5%
ACD 14	20	\$10.54	\$210.80	\$52.70	\$561.83	\$560	\$535	\$25	5%
ACD 15						\$315	\$300	\$15	5%
ACD 16						\$250	\$240	\$10	4%
ACD 17						\$195	\$185	\$10	5%
ACD 18						\$120	\$115	\$5	4%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DEPARTMENT

## OUACHITA

## PASTURE

						OLD RATE		
				CAPITAL-		ROUNDED TO		
		AVG \$ PER		IZATION	ROUNDED TO	THE NEAREST		
	AUM	AUM	TOTAL	RATE	NEAREST \$5	\$5	DIFF	% DIFF
				8.38%				
ACD 1	8.4	\$2.82	\$23.69	\$282.67	\$285	\$275	\$10	4%
ACD 2	7.7	\$2.82	\$21.71	\$259.12	\$260	\$250	\$10	4%
ACD 3	5.1	\$2.82	\$14.38	\$171.62	\$170	\$165	\$5	3%
ACD 4	6.3	\$2.82	\$17.77	\$212.00	\$210	\$205	\$5	2%
ACD 5	5.1	\$2.82	\$14.38	\$171.62	\$170	\$165	\$5	3%
ACD 6	4.2	\$2.82	\$11.84	\$141.34	\$140	\$135	\$5	4%
ACD 7	6.7	\$2.82	\$18.89	\$225.47	\$225	\$220	\$5	2%
ACD 8	6.1	\$2.82	\$17.20	\$205.27	\$205	\$200	\$5	3%
ACD 9	3.9	\$2.82	\$11.00	\$131.24	\$130	\$130	\$0	0%
ACD 10	6.7	\$2.82	\$18.89	\$225.47	\$225	\$220	\$5	2%
ACD 11	4.2	\$2.82	\$11.84	\$141.34	\$140	\$135	\$5	4%
ACD 12	6.9	\$2.82	\$19.46	\$232.20	\$230	\$225	\$5	2%
ACD 13	6.4	\$2.82	\$18.05	\$215.37	\$215	\$210	\$5	2%
ACD 14	5.1	\$2.82	\$14.38	\$171.62	\$170	\$165	\$5	3%
ACD 15	4.2	\$2.82	\$11.84	\$141.34	\$140	\$135	\$5	4%
ACD 16	4.2	\$2.82	\$11.84	\$141.34	\$140	\$135	\$5	4%
ACD 17	4.2	\$2.82	\$11.84	\$141.34	\$140	\$135	\$5	4%
ACD 18					\$75	\$75	\$0	0%

## SOURCES:

## NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DEPARTMENT

### 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
			<b>Deductible</b>	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$174	No	\$0	\$174	\$0	\$1,743	\$1,917
3	Spray	\$52	Yes	\$18	\$34	\$140	\$260	\$136
8	PCT	\$89	Yes	\$31	\$58	\$150	\$278	\$155
18	Fert.	\$83	Yes	\$29	\$54	\$47	\$87	\$65
26	Fert.		Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:		\$398	-	\$79	\$320	\$337	\$2,369	\$2,273
nnual Expense	es:							
Adminstration/	management.:	\$10	Yes	\$4	\$7	\$32	\$60	\$31
subtotal (30 yrs.	.):	\$300	II	\$105	\$195	\$334	\$619	\$376
Total:		\$698	-	\$184	\$515	\$671	\$2,988	\$2,649
	**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>	Volume	<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 (Cords)	\$	25	\$233	(\$16)	- (\$82)	1	\$217 \$135	- \$279	- \$414
23	3.78 (MBF Doyle)	\$	311	\$1,177	(\$82)	(\$412)	1	\$1,094 \$683	- \$512	- \$1,195
30	16.45 (MBF Doyle)	\$	311	\$5,117	(\$358)	(\$1,651)	1	\$4,758 \$3,107	- \$0	- \$3,107
al:		-		\$6,526	(\$457)	(\$2,145)		\$3,242	\$791	\$4,716

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

1. Total Income including	Total Income including accrued interest on net thinning income to final harvest:					
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$2,649)				
3. Net income before prop	perty tax:	\$2,068				
4. Present value of net inc	\$206					
5. Annual ad valorem proj	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	yment:	(\$1.91)				
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$1.24)				
Total property tax paym	nents per harvest cycle:	(\$37)				
Accrued interest on out	t-of-pocket tax payments per harvest cycle:	\$118				
6. Land value after proper	rty tax (adj. for income tax deduction):	\$191				

## 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:		\$57	-	\$37	\$118	\$155
Subtotal:		\$57	-	\$37	\$118	\$155
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$457	-	\$297	-	\$297
Federal Income Tax on harvest revenue @	35.0%	-	\$2,145	\$2,145	-	\$2,145
Subtotal:		\$457	\$2,145	\$2,442	-	\$2,442
Totals:		\$514	\$2,145	\$2,479	\$118	\$2,597
Tax burden as percent of gross revenues:		7.9%	32.9%	38.0%	1.8%	39.8%

### OUACHITA 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
			<b>Deductible</b>	<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
Subtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
Annual Expense	es:							
Adminstration/	management .:	\$8	Yes	\$3	\$5	\$31	\$57	\$29
Subtotal (32 yrs	.):	\$256	II	\$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:				
Age	Volume	<u>Price</u>	<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	\$25.30	\$203	(\$14)	-		\$189	-	-
	(Cords)				(\$71)	1	\$118	\$243	\$361
32	13.59	\$311.08	\$4,228	(\$296)	-		\$3,932	-	-
	(MBF Doyle)				(\$1,480)	1	\$2,452	\$0	\$2,452
al:		-	\$4,431	(\$310)	(\$1,551)		\$2,570	\$243	\$2,813

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

(\$358) \$2,455
\$2.455
<i> </i>
\$206
1.00%
(\$1.90)
(\$1.24)
(\$40)
\$145

## 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:		\$61	-	\$40	\$145	\$184	
Subtotal:		\$61	-	\$40	\$145	\$184	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$310	-	\$202	-	\$202	
Federal Income Tax on harvest revenue @	35.0%	-	\$1,551	\$1,551	-	\$1,551	
Subtotal:		\$310	\$1,551	\$1,752	-	\$1,752	
Totals:		\$371	\$1,551	\$1,792	\$145	\$1,937	
Tax burden as percent of gross revenues:		8.4%	35.0%	40.4%	3.3%	43.7%	

### OUACHITA 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
			<b>Deductible</b>	<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
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management .:	\$O	Yes	\$0	\$0	\$0	\$0	\$0
ubtotal (34 yrs			II	\$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):

\*Interest rate used in computations is:

## Step. 2 - Revenues and Federal and State Tax Treatment

	Stand	Harvest	Stumpage	Harvest	State and Federal	Tax Payments:			
_	Age	Volume	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
			\$25	\$0	\$0	-	\$0	-	-
		(Cords)				\$0	\$0	\$0	\$0
	34	11.16	\$311	\$3,471	(\$243)		\$3,228	-	-
		(MBF Doyle)				(\$1,215) <sup>1</sup>	\$2,013	\$0	\$2,013
Total:			-	\$3,471	(\$243)	(\$1,215)	\$2,013	\$0	\$2,013

	crued interest on net thinning income to final harvest:	\$2,013
2. Out-of-pocket expenses (s	silvicultural activities and taxes) and accrued interest:	\$0
3. Net income before proper	ty tax:	\$2,013
4. Present value of net incon	ne before property tax:	\$142
5. Annual ad valorem proper	rty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax payme	ent:	(\$1.31)
Annual property tax paym	ent adjusted for fed. inc. tax deduction:	(\$0.85)
Total property tax paymen	nts per harvest cycle:	(\$29)
Accrued interest on out-of	f-pocket tax payments per harvest cycle:	\$122

## Step 4 - Tax Burden on Low Site Pine Forest Land

		Total Tax	Payments:	Out-of-P		
		State	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$45	-	\$29	\$122	\$151
Subtotal:		\$45	-	\$29	\$122	\$151
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$243	-	\$158	-	\$158
Federal Income Tax on harvest revenue @	35.0%	-	\$1,215	\$1,215	-	\$1,215
Subtotal:		\$243	\$1,215	\$1,373	-	\$1,373
Totals:		\$288	\$1,215	\$1,402	\$122	\$1,524
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
			<b>Deductible</b>	<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
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

S	Stand	Harvest	Stu	mpage	Harvest	State and Federal	Tax Payments:			
	Age	<u>Volume</u>	F	<u>Price</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	40	3.42	\$	40	\$137	(\$10)	-	\$128	-	-
		(Cords)					(\$48)	\$80	\$0	\$80
4	40	9.78	\$	302	\$2,954	(\$207)	-	\$2,747	-	-
		(MBF Doyle)					(\$1,034) <sup>1</sup>	\$1,713	\$0	\$1,713
Total:			-		\$3,091	(\$216)	(\$1,082)	\$1,793	\$0	\$1,793

<ol> <li>Out-of-pocket expenses (silvicultural activities and taxes) and accrued interest:</li> <li>Net income before property tax:</li> <li>Present value of net income before property tax:</li> </ol>	\$0 \$1,793			
	\$1,793			
1. Present value of net income before property tax:				
4. Present value of net income before property tax: \$76				
5. Annual ad valorem property taxes:				
Property tax rate: 50 mills @ 20% assessment ratio	1.00%			
Annual property tax payment:	(\$0.70)			
Annual property tax payment adjusted for fed. inc. tax deduction:	(\$0.46)			
Total property tax payments per harvest cycle:	(\$18)			
Accrued interest on out-of-pocket tax payments per harvest cycle:	\$116			

## 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:		\$28	-	\$18	\$116	\$135	
Subtotal:		\$28	-	\$18	\$116	\$135	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$216	-	\$141	-	\$141	
Federal Income Tax on harvest revenue @	35.0%	-	\$1,082	\$1,082	-	\$1,082	
Subtotal:		\$216	\$1,082	\$1,223	-	\$1,223	
Totals:		\$245	\$1,082	\$1,241	\$116	\$1,357	
Tax burden as percent of gross revenues:		7.9%	35.0%	40.1%	3.8%	43.9%	

# **DCF's Harvest Volume by Region**

<b>Ouachita Region</b>	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	Var/Ac
1	\$70	\$70	0%
2	\$185	\$175	-5%
3	\$70	\$70	0%
4	\$125	\$120	-4%
5	\$100	\$100	0%
6	\$130	\$125	-4%
7	\$120	\$115	-4%
8	\$100	\$100	0%
9	\$145	\$140	-3%
10	\$100	\$100	0%
11	\$145	\$140	-3%
12	\$180	\$170	-6%
13	\$180	\$170	-6%
14	\$170	\$160	-6%
15	\$155	\$150	-3%
16	\$165	\$160	-3%
17	\$100	\$100	0%
18	\$70	\$70	0%
			-3%

OZARK

CROP

	AVERAGE BUSHEL PER ACRE	10 YEAR AVG OF PRICES RECEIVED BY FARMERS	SUM	75/25 SPLIT	CAPITALI- ZATION RATE 9.38%	ROUNDED TO THE NEAREST \$5	OLD RATE ROUNDED TO THE NEAREST \$5	DIFF	% DIFF
ACD 1	38	\$10.54	\$400.52	\$100.13	\$1,067.48	\$1,065	\$1,015	\$50	5%
ACD 2	31	\$10.54	\$326.74	\$81.69	\$870.84	\$870	\$825	\$45	5%
ACD 3	23	\$10.54	\$242.42	\$60.61	\$646.11	\$645	\$615	\$30	5%
ACD 4	29	\$10.54	\$305.66	\$76.42	\$814.66	\$815	\$775	\$40	5%
ACD 5	23	\$10.54	\$242.42	\$60.61	\$646.11	\$645	\$615	\$30	5%
ACD 6	15	\$10.54	\$158.10	\$39.53	\$421.38	\$420	\$400	\$20	5%
ACD 7	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 8	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 9	15	\$10.54	\$158.10	\$39.53	\$421.38	\$420	\$400	\$20	5%
ACD 10	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 11	15	\$10.54	\$158.10	\$39.53	\$421.38	\$420	\$400	\$20	5%
ACD 12	28	\$10.54	\$295.12	\$73.78	\$786.57	\$785	\$745	\$40	5%
ACD 13	20	\$10.54	\$210.80	\$52.70	\$561.83	\$560	\$535	\$25	5%
ACD 14	20	\$10.54	\$210.80	\$52.70	\$561.83	\$560	\$535	\$25	5%
ACD 15						\$315	\$300	\$15	5%
ACD 16						\$250	\$240	\$10	4%
ACD 17						\$195	\$185	\$10	5%
ACD 18						\$120	\$115	\$5	4%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

## OZARK

## PASTURE

						OLD RATE		
				CAPITAL-		ROUNDED TO		
		AVG \$ PER	TOTAL	IZATION	ROUNDED TO			
	AUM	AUM	TOTAL	RATE	NEAREST \$5	\$5	DIFF	% DIFF
				8.38%				
ACD 1	9.8	\$2.82	\$27.64	\$329.79	\$330	\$320	\$10	3%
ACD 2	8	\$2.82	\$22.56	\$269.21	\$270	\$260	\$10	4%
ACD 3	6.1	\$2.82	\$17.20	\$205.27	\$205	\$200	\$5	3%
ACD 4	6.3	\$2.82	\$17.77	\$212.00	\$210	\$205	\$5	2%
ACD 5	6.6	\$2.82	\$18.61	\$222.10	\$220	\$215	\$5	2%
ACD 6	4.4	\$2.82	\$12.41	\$148.07	\$150	\$145	\$5	3%
ACD 7	6.5	\$2.82	\$18.33	\$218.74	\$220	\$215	\$5	2%
ACD 8	6.6	\$2.82	\$18.61	\$222.10	\$220	\$215	\$5	2%
ACD 9	4.2	\$2.82	\$11.84	\$141.34	\$140	\$135	\$5	4%
ACD 10	6.5	\$2.82	\$18.33	\$218.74	\$220	\$215	\$5	2%
ACD 11	3.1	\$2.82	\$8.74	\$104.32	\$105	\$100	\$5	5%
ACD 12	7.8	\$2.82	\$22.00	\$262.48	\$260	\$255	\$5	2%
ACD 13	6.6	\$2.82	\$18.61	\$222.10	\$220	\$215	\$5	2%
ACD 14	5.2	\$2.82	\$14.66	\$174.99	\$175	\$170	\$5	3%
ACD 15	4.4	\$2.82	\$12.41	\$148.07	\$150	\$145	\$5	3%
ACD 16	3.7	\$2.82	\$10.43	\$124.51	\$125	\$120	\$5	4%
ACD 17	3.7	\$2.82	\$10.43	\$124.51	\$125	\$120	\$5	4%
ACD 18					\$75	\$75	\$0	0%

## SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

#### 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
				<b>Deductible</b>	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$	174	No	\$0	\$174	\$0	\$1,743	\$1,917
3	Spray	\$	52	Yes	\$18	\$34	\$140	\$260	\$136
8	PCT	\$	89	Yes	\$31	\$58	\$150	\$278	\$155
18	Fert.	\$	83	Yes	\$29	\$54	\$47	\$87	\$65
26	Fert.			Yes	\$0	\$0	\$0	\$0	\$0
Subtotal:			\$398	-	\$79	\$320	\$337	\$2,369	\$2,273
Annual Expense	es:								
Adminstration/	management.:		\$10	Yes	\$4	\$7	\$32	\$60	\$31
Subtotal (30 yrs.	.):		\$300	u	\$105	\$195	\$334	\$619	\$376
Total:			\$698	-	\$184	\$515	\$671	\$2,988	\$2,649
	**Interest rate	e usec	t 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 1	Tax Payments:				
Age	Volume	<u>Price</u>	Revenue	Arkansas State	Fed. Income		Net Income	Accrued	Total
-				Income Tax@ 7%	<u>Tax @ 35%</u>		<u>After Tax</u>	Interest on Net	<u>Income</u>
16	9.21	\$21.17	\$195	(\$14)	-		\$181	-	-
	(Cords)				(\$68)	1	\$113	\$233	\$347
23	3.78	\$258.14	\$977	(\$68)	-		\$908	-	-
	(MBF Doyle)				(\$342)	1	\$566	\$425	\$992
30	16.45	\$258.14	\$4,246	(\$297)	-		\$3,949	-	-
	(MBF Doyle)				(\$1,347)	1	\$2,602	\$0	\$2,602
al:		-	\$5,417	(\$379)	(\$1,757)		\$3,282	\$659	\$3,940

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

#### Step 3 - Estimated Timberland Value per Acre

	accrued interest on net thinning income to final harvest:	\$3,940				
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$2,649)				
3. Net income before prop	perty tax:	\$1,292				
4. Present value of net inc	Present value of net income before property tax:					
5. Annual ad valorem pro	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	yment:	(\$1.19)				
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$0.77)				
Total property tax paym	nents per harvest cycle:	(\$23)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
6. Land value after proper	\$119					

## 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:		\$36	-	\$23	\$74	\$97	
Subtotal:		\$36	-	\$23	\$74	\$97	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$379	-	\$246	-	\$246	
Federal Income Tax on harvest revenue @	35.0%	-	\$1,757	\$1,757	-	\$1,757	
Subtotal:		\$379	\$1,757	\$2,003	-	\$2,003	
Totals:		\$415	\$1,757	\$2,026	\$74	\$2,100	
Tax burden as percent of gross revenues:		7.7%	32.4%	37.4%	1.4%	38.8%	

#### 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 Inter	est on	Acc. Total
			<b>Deductible</b>	<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	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	e 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 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
18	8.03	\$21.17	\$170	(\$12)	-	\$158	-	-
	(Cords)				(\$59) <sup>1</sup>	\$99	\$203	\$302
32	13.59	\$258.14	\$3,508	(\$246)	-	\$3,263	-	-
	(MBF Doyle)				(\$1,228) <sup>1</sup>	\$2,035	\$0	\$2,035
otal:		-	\$3,678	(\$257)	(\$1,287)	\$2,133	\$203	\$2,337

<sup>1</sup> 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:	\$2,337				
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	(\$358)				
3. Net income before prop	perty tax:	\$1,979				
4. Present value of net inc	Present value of net income before property tax:					
5. Annual ad valorem proj	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	yment:	(\$1.53)				
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$1.00)				
Total property tax paym	nents per harvest cycle:	(\$32)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
		\$153				
<ol><li>Land value after proper</li></ol>	. 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:		\$49	-	\$32	\$117	\$149	
Subtotal:		\$49	-	\$32	\$117	\$149	
Revenue-reducing:							
Arkansas State Income Tax on harvest revenue @	7.0%	\$257	-	\$167	-	\$167	
Federal Income Tax on harvest revenue @	35.0%	-	\$1,287	\$1,287	-	\$1,287	
Subtotal:		\$257	\$1,287	\$1,455	-	\$1,455	
Totals:		\$307	\$1,287	\$1,487	\$117	\$1,603	
Tax burden as percent of gross revenues:		8.3%	35.0%	40.4%	3.2%	43.6%	

#### OZARK 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
			<b>Deductible</b>	<b>Benefit</b>	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/	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	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>	Volume	Price	Revenue	Arkansas State Income Tax@ 7%	Fed. Income Income Tax@ 35%	Net Income <u>After Tax</u>	Accrued Interest on Net	Total <u>Income</u>
			\$0	\$0	- \$0	\$0 \$0	- \$0	- \$0
34	11.16	\$258	\$2,880	(\$202)		\$2,679	-	-
	(MBF Doyle)				(\$1,008) <sup>1</sup>	\$1,671	\$0	\$1,671
		-	\$2,880	(\$202)	(\$1,008)	\$1,671	\$0	\$1,671

<sup>1</sup> 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:	\$1,671				
2. Out-of-pocket expense	s (silvicultural activities and taxes) and accrued interest:	\$0				
3. Net income before prop	perty tax:	\$1,671				
4. Present value of net ind	Present value of net income before property tax:					
5. Annual ad valorem proj	perty taxes:					
Property tax rate:	50 mills @ 20% assessment ratio	1.00%				
Annual property tax pay	yment:	(\$1.09)				
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$0.71)				
Total property tax paym	nents per harvest cycle:	(\$24)				
Accrued interest on out	Accrued interest on out-of-pocket tax payments per harvest cycle:					
6. Land value after proper	\$109					

## 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	\$101	\$126
Subtotal:		\$37	-	\$24	\$101	\$126
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$202	-	\$131	-	\$131
Federal Income Tax on harvest revenue @	35.0%	-	\$1,008	\$1,008	-	\$1,008
Subtotal:		\$202	\$1,008	\$1,139	-	\$1,139
Totals:		\$239	\$1,008	\$1,163	\$101	\$1,265
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
			<b>Deductible</b>	<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	\$O	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 .:	<b>\$</b> 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:			
<u>Age</u>	<u>Volume</u>	<u>F</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
40	3.42 (Cords)	\$	23	\$77	(\$5)	- (\$27)	\$72 \$45	- \$0	- \$45
40	9.78	\$	246	\$2,403	(\$168)	-	\$2,235	-	-
	(MBF Doyle)					(\$841)	<sup>1</sup> \$1,394	\$0	\$1,394
Total:		-		\$2,480	(\$174)	(\$868)	\$1,438	\$0	\$1,438

## Step 3 - Estimated Timberland Value per Acre

	led interest on net thinning income to final harvest:	\$1,438
<ol><li>Out-of-pocket expenses (silv</li></ol>	vicultural activities and taxes) and accrued interest:	\$0
3. Net income before property	tax:	\$1,438
4. Present value of net income	before property tax:	\$61
5. Annual ad valorem property	taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax paymen	t:	(\$0.57)
Annual property tax paymen	t adjusted for fed. inc. tax deduction:	(\$0.37)
Total property tax payments	per harvest cycle:	(\$15)
Accrued interest on out-of-po	ocket tax payments per harvest cycle:	\$93

## Step 4 - Tax Burden on MIXED HARDWOOD Site Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		State	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$23	-	\$15	\$93	\$108
Subtotal:		\$23	-	\$15	\$93	\$108
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$174	-	\$113	-	\$113
Federal Income Tax on harvest revenue @	35.0%	-	\$868	\$868	-	\$868
Subtotal:		\$174	\$868	\$981	-	\$981
Totals:		\$196	\$868	\$996	\$93	\$1,089
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	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	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= 8.00%

	Previous	Current	
ACD#	Value/Acre	alue/Acre	Var/Ac
1	\$50	\$50	0%
2	\$135	\$130	-4%
3	\$120	\$110	-8%
4	\$105	\$105	0%
5	\$70	\$70	0%
6	\$125	\$120	-4%
7	\$65	\$70	8%
8	\$100	\$95	-5%
9	\$120	\$115	-4%
10	\$70	\$70	0%
11	\$115	\$115	0%
12	\$145	\$140	-3%
13	\$140	\$130	-7%
14	\$125	\$120	-4%
15	\$125	\$120	-4%
16	\$120	\$115	-4%
17	\$70	\$70	0%
18	\$65	\$65	0%
			-2%

## SOUTHWEST

CROP

	AVERAGE SOYBEAN BUSHEL PER	10 YEAR AVERAGE OF PRICES					OLD RATE		
	ACRE	RECEIVED BY FARMERS			APPLIED CAPITALI-	ROUNDED TO THE NEAREST	ROUNDED TO THE NEAREST		
			SUM	75/25 SPLIT	ZATION RATE	\$5	\$5	DIFF	% DIFF
					9.38%				
ACD 1	36	\$10.54	\$379.44	\$94.86	\$1,011.30	\$1,010	\$960	\$50	5%
ACD 2	31	\$10.54	\$326.74	\$81.69	\$870.84	\$870	\$825	\$45	5%
ACD 3	20	\$10.54	\$210.80	\$52.70	\$561.83	\$560	\$535	\$25	5%
ACD 4	27	\$10.54	\$284.58	\$71.15	\$758.48	\$760	\$720	\$40	6%
ACD 5	20	\$10.54	\$210.80	\$52.70	\$561.83	\$560	\$535	\$25	5%
ACD 6	15	\$10.54	\$158.10	\$39.53	\$421.38	\$420	\$400	\$20	5%
ACD 7	29	\$10.54	\$305.66	\$76.42	\$814.66	\$815	\$775	\$40	5%
ACD 8	29	\$10.54	\$305.66	\$76.42	\$814.66	\$815	\$775	\$40	5%
ACD 9	15	\$10.54	\$158.10	\$39.53	\$421.38	\$420	\$400	\$20	5%
ACD 10	29	\$10.54	\$305.66	\$76.42	\$814.66	\$815	\$775	\$40	5%
ACD 11	15	\$10.54	\$158.10	\$39.53	\$421.38	\$420	\$400	\$20	5%
ACD 12	27	\$10.54	\$284.58	\$71.15	\$758.48	\$760	\$720	\$40	6%
ACD 13	21	\$10.54	\$221.34	\$55.34	\$589.93	\$590	\$560	\$30	5%
ACD 14	21	\$10.54	\$221.34	\$55.34	\$589.93	\$590	\$560	\$30	5%
ACD 15						\$315	\$300	\$15	5%
ACD 16						\$250	\$240	\$10	4%
ACD 17						\$195	\$185	\$10	5%
ACD 18						\$120	\$115	\$5	4%

SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DEPARTMENT

## SOUTHWEST

## PASTURE

						OLD RATE		
		AVG \$ PER		APPLIED CAPITAL-	ROUNDED TO	ROUNDED TO THE NEAREST		
	AUM	AUM	TOTAL	IZATION RATE	NEAREST \$5	\$5	DIFF	% DIFF
				8.38%				
ACD 1	9.1	\$2.82	\$25.66	\$306.23	\$305	\$300	\$5	2%
ACD 2	8.1	\$2.82	\$22.84	\$272.58	\$275	\$265	\$10	4%
ACD 3	6.1	\$2.82	\$17.20	\$205.27	\$205	\$200	\$5	3%
ACD 4	7.2	\$2.82	\$20.30	\$242.29	\$240	\$235	\$5	2%
ACD 5	5.2	\$2.82	\$14.66	\$174.99	\$175	\$170	\$5	3%
ACD 6	5.2	\$2.82	\$14.66	\$174.99	\$175	\$170	\$5	3%
ACD 7	6.8	\$2.82	\$19.18	\$228.83	\$230	\$220	\$10	5%
ACD 8	5.5	\$2.82	\$15.51	\$185.08	\$185	\$180	\$5	3%
ACD 9	4	\$2.82	\$11.28	\$134.61	\$135	\$130	\$5	4%
ACD 10	5	\$2.82	\$14.10	\$168.26	\$170	\$165	\$5	3%
ACD 11	4.5	\$2.82	\$12.69	\$151.43	\$150	\$145	\$5	3%
ACD 12	7.9	\$2.82	\$22.28	\$265.85	\$265	\$260	\$5	2%
ACD 13	7.2	\$2.82	\$20.30	\$242.29	\$240	\$235	\$5	2%
ACD 14	6	\$2.82	\$16.92	\$201.91	\$200	\$195	\$5	3%
ACD 15	4.8	\$2.82	\$13.54	\$161.53	\$145	\$145	\$0	0%
ACD 16	3	\$2.82	\$8.46	\$100.95	\$100	\$100	\$0	0%
ACD 17	3	\$2.82	\$8.46	\$100.95	\$100	\$100	\$0	0%
ACD 18					\$75	\$75	\$0	0%

## SOURCES:

NATURAL RESOURCES CONSERVATION SERVICE USDA - ARKANSAS AGRICULTURAL STATISTICS

ASSESSMENT COORDINATION DEPARTMENT

## SOUTHWEST PINEHIGHSITE

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

00001000	tet Expenses:									
Age	<u>Activity</u>	Exp	<u>oense</u>		Fed. Tax	Fed. Tax	Net Expense	Accrued Inte	rest on	Acc. Total
					Deductib	<u>e Benefit</u>	<u>excl. Taxes</u>	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$	174		No	\$0	\$174	\$0	\$1,743	\$1,917
3	Spray	\$	52		Yes	\$18	\$34	\$140	\$260	\$136
8	PCT	\$	89		Yes	\$31	\$58	\$150	\$278	\$155
18	Fert.	\$	83		Yes	\$29	\$54	\$47	\$87	\$65
26	Fert.				Yes	\$0	\$0	\$0	\$0	\$0
ubtotal:			\$398		-	\$79	\$320	\$337	\$2,369	\$2,273
nnual Expense										
	management.:		\$10		Yes	\$4	\$7	\$32	\$60	\$31
ubtotal (30 yrs	):		\$300		"	\$105	\$195	\$334	\$619	\$376
Fotal:			\$698		-	\$184	\$515	\$671	\$2,988	\$2,649
	**Interest rate	useo	d in com	putations is:	8.00%					
tep. 2 - Rever	ues and Federa	l and	State T	ax Treatme	nt					
Stand	Harvest	Stur	npage	Harvest	State and Federal T	ax Payments:				
Age	<u>Volume</u>	<u>P</u>	rice	<u>Revenue</u>	Arkansas State	Fed. Income		Net Income	Accrued	Total
					Income Tax@ 7%	<u>Tax @ 35%</u>		After Tax	Interest on Net	Income
16	9.21	\$	25	\$233	(\$16)	-		\$217	-	-
16	9.21 (Cords)	\$	25	\$233	(\$16)	- (\$82)	1	\$217 \$135	- \$279	- \$414
16 23		\$ \$	25 311	\$233 \$1,177	(\$16) (\$82)	(\$82)	1		- \$279 -	- \$414 -
	(Cords)	·				(\$82) (\$412)	1	\$135	- \$279 - \$512	- \$414 - \$1,195
	(Cords) 3.78	\$				- -		\$135 \$1,094	-	-
23	(Cords) 3.78 (MBF Doyle)	\$	311	\$1,177	(\$82)	- -		\$135 \$1,094 \$683	-	-

<sup>1</sup> 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:	\$4,716
2. Out-of-pocket expense	es (silvicultural activities and taxes) and accrued interest:	(\$2,649)
3. Net income before pro	perty tax:	\$2,068
4. Present value of net in	come before property tax:	\$206
5. Annual ad valorem pro	perty taxes:	
Property tax rate:	50 mills @ 20% assessment ratio	1.00%
Annual property tax pa	iyment:	(\$1.91)
Annual property tax pa	yment adjusted for fed. inc. tax deduction:	(\$1.24)
Total property tax payr	nents per harvest cycle:	(\$37)
Accrued interest on ou	it-of-pocket tax payments per harvest cycle:	\$118
6. Land value after prope	erty tax (adj. for income tax deduction):	\$191

## Step 4 - Tax Burden on High Site Pine Forest Land

		Total Tax	Payments:	Out-of-P	ocket Expenses	
		<u>State</u>	Federal	Taxes	Accrued Interest	Total
Cost-increasing:						
Property taxes on land:		\$57	-	\$37	\$118	\$155
Subtotal:		\$57	-	\$37	\$118	\$155
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$457	-	\$297	-	\$297
Federal Income Tax on harvest revenue @	35.0%	-	\$2,145	\$2,145	-	\$2,145
Subtotal:		\$457	\$2,145	\$2,442	-	\$2,442
Totals:		\$514	\$2,145	\$2,479	\$118	\$2,597
Tax burden as percent of gross revenues:		7.9%	32.9%	38.0%	1.8%	39.8%

#### 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
			<b>Deductible</b>	<b>Benefit</b>	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
ubtotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nnual Expense	es:							
Adminstration/	management .:	\$8	Yes	\$3	\$5	\$31	\$57	\$29
ubtotal (32 yrs	.):	\$256	п	\$90	\$166	\$328	\$609	\$358
Total:		\$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	Tax Payments:				
<u>Age</u>	Volume	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>
18	8.03	\$25.30	\$203	(\$14)	-		\$189	-	-
	(Cords)				(\$71)	1	\$118	\$243	\$361
32	13.59	\$311.08	\$4,228	(\$296)	-		\$3,932	-	-
	(MBF Doyle)				(\$1,480)	1	\$2,452	\$0	\$2,452
		-	\$4,431	(\$310)	(\$1,551)		\$2,570	\$243	\$2,813

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:	\$2,813		
2. Out-of-pocket expenses	s (silvicultural activities and taxes) and accrued interest:	(\$358)		
3. Net income before prop	perty tax:	\$2,455		
4. Present value of net inc	come before property tax:	\$206		
5. Annual ad valorem prop	perty taxes:			
Property tax rate:	50 mills @ 20% assessment ratio	1.00%		
Annual property tax pay	Annual property tax payment:			
Annual property tax pay	yment adjusted for fed. inc. tax deduction:	(\$1.24)		
Total property tax paym	nents per harvest cycle:	(\$40)		
Accrued interest on out	e-of-pocket tax payments per harvest cycle:	\$145		
and value after proper.	ty tax (adj. for income tax deduction):	\$190		

## 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:		\$61	-	\$40	\$145	\$184
Subtotal:		\$61	-	\$40	\$145	\$184
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$310	-	\$202	-	\$202
Federal Income Tax on harvest revenue @	35.0%	-	\$1,551	\$1,551	-	\$1,551
Subtotal:		\$310	\$1,551	\$1,752	-	\$1,752
Totals:		\$371	\$1,551	\$1,792	\$145	\$1,937
Tax burden as percent of gross revenues:		8.4%	35.0%	40.4%	3.3%	43.7%

#### SOUTHWEST 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
			<b>Deductible</b>	<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	\$0	\$0
8	PCT	\$0	Yes	\$0	\$0		\$0	\$0
19	Fert.	\$0	Yes	\$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	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	Tax Payments:			
Age	<u>Volume</u>	<u>Price</u>	Revenue	Arkansas State	Fed. Income	Net Income	Accrued	Total
				Income Tax@ 7%	<u>Tax @ 35%</u>	After Tax	Interest on Net	Income
		\$25	\$0	\$0	-	\$0	-	-
	(Cords)	·	·		\$0	\$0	\$0	\$0
34	11.16	\$311	\$3,471	(\$243)		\$3,228	-	-
	(MBF Doyle)				(\$1,215) <sup>1</sup>	\$2,013	\$0	\$2,013
Total:		-	\$3,471	(\$243)	(\$1,215)	\$2,013	\$0	\$2,013

## SOUTHWEST PINELOWSITE

## Step 3 - Estimated Timberland Value per Acre

<ol> <li>Total Income including a</li> </ol>	accrued interest on net thinning income to final harvest:	\$2,013		
2. Out-of-pocket expenses	s (silvicultural activities and taxes) and accrued interest:	\$0		
3. Net income before prop	perty tax:	\$2,013		
4. Present value of net inc	come before property tax:	\$142		
5. Annual ad valorem prop	perty taxes:			
Property tax rate:	50 mills @ 20% assessment ratio	1.00%		
Annual property tax pay	Annual property tax payment:			
Annual property tax pay	ment adjusted for fed. inc. tax deduction:	(\$0.85)		
Total property tax paym	nents per harvest cycle:	(\$29)		
Accrued interest on out.	-of-pocket tax payments per harvest cycle:	\$122		

## 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:		\$45	-	\$29	\$122	\$151
Subtotal:		\$45	-	\$29	\$122	\$151
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$243	-	\$158	-	\$158
Federal Income Tax on harvest revenue @	35.0%	-	\$1,215	\$1,215	-	\$1,215
Subtotal:		\$243	\$1,215	\$1,373	-	\$1,373
Totals:		\$288	\$1,215	\$1,402	\$122	\$1,524
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)

Out-of-Pock	et Expenses:							
Age	<u>Activity</u>	<u>Expense</u>	Fed. Tax	Fed. Tax	Net Expense	Accrued Inter	est on	Acc. Total
			<b>Deductible</b>	<u>Benefit</u>	excl. Taxes	Fed. Benefit	Net Out.	at Harvest
0	Prep./Plant	\$O	No	\$0 \$0 \$0	\$0	\$0 \$0 \$0	\$0	\$0 \$0
3	Spray	\$O	Yes		\$0		\$0	
8	PCT	\$O	Yes		\$0		\$0	\$0
17 Fert.		\$O	Yes	\$0	\$0	\$0	\$0	\$0
24	Fert.	\$0	Yes	\$0	\$0	\$0	\$0	\$0
btotal:		\$0	-	\$0	\$0	\$0	\$0	\$0
nual Expense	es:							
Adminstration/	management .:	\$0	Yes	\$0	\$0	\$0	\$0	\$0
btotal (40 yrs	.):	\$0	"	\$0	\$0	\$0	\$0	\$0
Fotal:		\$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	F	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	\$	40	\$137	(\$10)	-	\$128	-	-
		(Cords)					(\$48)	\$80	\$0	\$80
	40	9.78	\$	302	\$2,954	(\$207)	-	\$2,747	-	-
		(MBF Doyle)					(\$1,034) <sup>1</sup>	\$1,713	\$0	\$1,713
Total:			-		\$3,091	(\$216)	(\$1,082)	\$1,793	\$0	\$1,793

### SOUTHWEST HARDWOOD

## Step 3 - Estimated Timberland Value per Acre

	crued interest on net thinning income to final harvest:	\$1,793		
2. Out-of-pocket expenses (s	silvicultural activities and taxes) and accrued interest:	\$0		
3. Net income before proper	ty tax:	\$1,793		
4. Present value of net incon	ne before property tax:	\$76		
5. Annual ad valorem proper	rty taxes:			
Property tax rate:	50 mills @ 20% assessment ratio	1.00%		
Annual property tax paym	Annual property tax payment:			
Annual property tax paym	ent adjusted for fed. inc. tax deduction:	(\$0.46)		
Total property tax paymer	nts per harvest cycle:	(\$18)		
Accrued interest on out-of	f-pocket tax payments per harvest cycle:	\$116		

## 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:		\$28	-	\$18	\$116	\$135
Subtotal:		\$28	-	\$18	\$116	\$135
Revenue-reducing:						
Arkansas State Income Tax on harvest revenue @	7.0%	\$216	-	\$141	-	\$141
Federal Income Tax on harvest revenue @	35.0%	-	\$1,082	\$1,082	-	\$1,082
Subtotal:		\$216	\$1,082	\$1,223	-	\$1,223
Totals:		\$245	\$1,082	\$1,241	\$116	\$1,357
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 REGION TIMBER:**

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

ACD#	Previous Value/Acrea		Var/Ac	
1	\$90	\$90	0%	90
2	\$90 \$165	\$90 \$150	-9%	165
	-	-		
3	\$205	\$190	-7%	205
4	\$180	\$165	-8%	180
5	\$95	\$95	0%	95
6	\$205	\$190	-7%	205
7	\$180	\$165	-8%	180
8	\$70	\$70	0%	70
9	\$155	\$145	-6%	155
10	\$70	\$70	0%	70
11	\$145	\$140	-3%	145
12	\$190	\$175	-8%	190
13	\$200	\$185	-8%	200
14	\$195	\$185	-5%	195
15	\$180	\$170	-6%	180
16	\$175	\$165	-6%	175
17	\$95	\$95	0%	95
18	\$75	\$75	0%	75
			-5%	

#### **CROP AND PASTURE RATES**

Сгор		Rental Rate Multiplier 25.00%	Pasture	Pasture Cap 8.38%	Rate N	Multiplie	er			Capitalization Rate		
				Delta States	L	A	MS	Averge	Reported		-	
		9.38%									Crop	Pasture
		Crop Cap Rate								Safe Rate		
		Multiplier								10 Year Average of		
			2006			19	16	17.5		the 30 Year T-Bond	3.88%	3.88%
			2007			23	18	20.5				
			2008			27	18.5	22.75				
soybean pri	ces		2009**		na	n	а	19		Industry Risk Rate	3.50%	3.50%
			2010		na	n	а	16	16			
2006	6.41		2011		na	n	а	16		Management Rate	2.00%	1.00%
2007	9.02		2012					18	18			
2008	9.64					_						
2009	9.66		-	TE AVERAGE	AUM	P	ASTURE					
2010	10.9		7.7	DELTA			17.5	2006				
2011 2012	12.3 14.3	Soybean	5.3 6	OUACHITA OZARK			20.5 21	2007 2008		Capitalization Rate	9.38%	8.38%
2012	13.1	average	6.8	SOUTHWEST			19	2008		Capitalization Rate	9.38%	8.38%
2013	10.6	price	6.5	AVERAGE			16	2003			5.5070	0.3076
2015	9.45	multiplier	0.0	///LIU//02			16	2011				
	\$10.54 10 yr	\$10.54					18	2012				
L_	\$11.95 last 5 yr			AVG AUM RE	NTAL	-	18	2013				
	\$11.05 last 3 yr			VALUE PER			18	2014				
				ACRE			18	2015				
				\$2.82								
				<b>00.00</b>				10 yr avera	age			
				\$2.82				last 5 avg				
							18	last 3 avg				

## Timber Mart-South Stumpage Price Data

	Doyle		Doyle		Doyle				Standard	l Cord	Standard	Cord
	Pi	ne	O	ak	Mixed		Average		Pi	ne	Hard	wood
YEAR	Sawt	imber	Sawti	imber	Hardwood	k	Hardwood	b	Pulp	wood	Pulp	wood
	<u>Reg. 1</u>	<u>Reg. 2</u>										
2006	\$ 443.09	\$ 364.39	\$ 272.30	\$ 263.64	\$ 210.79	\$ 178.50	\$ 241.54	\$ 221.07	\$ 19.97	\$ 14.04	\$ 24.45	\$ 10.53
2007	\$ 479.60	\$ 336.46	\$ 376.16	\$ 270.64	\$ 260.23	\$ 215.43	\$ 318.19	\$ 243.03	\$ 27.28	\$ 25.89	\$ 34.89	\$ 18.13
2008	\$ 341.44	\$ 263.64	\$ 314.21	\$ 259.26	\$ 238.96	\$ 166.16	\$ 276.59	\$ 212.71	\$ 31.01	\$ 28.03	\$ 39.70	\$ 22.97
2009	\$ 291.17	\$ 232.12	\$ 278.78	\$ 208.34	\$ 216.48	\$ 182.35	\$ 247.63	\$ 195.34	\$ 27.44	\$ 23.05	\$ 39.76	\$ 25.23
2010	\$ 284.89	\$ 261.25	\$ 300.91	\$ 237.74	\$ 260.75	\$ 201.95	\$ 280.83	\$ 219.84	\$ 31.84	\$ 25.67	\$ 46.49	\$ 29.67
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
	-											
10 YEAR AVG	\$ 311.08	\$ 258.14	\$ 351.91	\$ 287.24	\$ 252.32	\$ 204.25	\$ 302.11	\$ 245.74	\$ 25.30	\$ 21.17	\$ 40.12	\$ 22.56

# FORESTRY RELATED COSTS

						10 Year
Forestry Costs:	2006	2008	2010	2012	2014	Average
Planting by Hand	0.0863	0.1079	0.1187	0.1144	0.1122	
Planting by Machine	0.1168	0.1386	0.1469	0.2411	0.1400	
Avg	0.10155	0.12325	0.1328	0.17775	0.1261	
Cost for 604 tree/ac	\$ 61.34	\$ 74.44	\$ 80.21	\$ 107.36	\$ 76.16	
Site Prep	\$ 82.61	\$ 108.55	\$ 96.57	\$ 116.01	\$ 66.09	
Total Establishment	\$ 143.94	\$ 182.99	\$ 176.78	\$ 223.37	\$ 142.25	\$ 173.87
Spraying	\$ 79.41	\$ 48.82	\$ 47.68	\$ 55.12	\$ 29.89	\$ 52.18
PCT	\$ 58.89	\$ 80.18	\$ 166.66	\$ 50.27	*	\$ 89.00
Fertilization	\$ 77.98	\$ 110.28	\$ 62.79	\$ 86.33	\$ 79.49	\$ 83.37
						\$ 398

**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)