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The Economics of Public Assistance for Nonindustrial Private Timber Sales in Mississippi



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The Economics of Public Assistance for Nonindustrial Private Timber Sales in Mississippi

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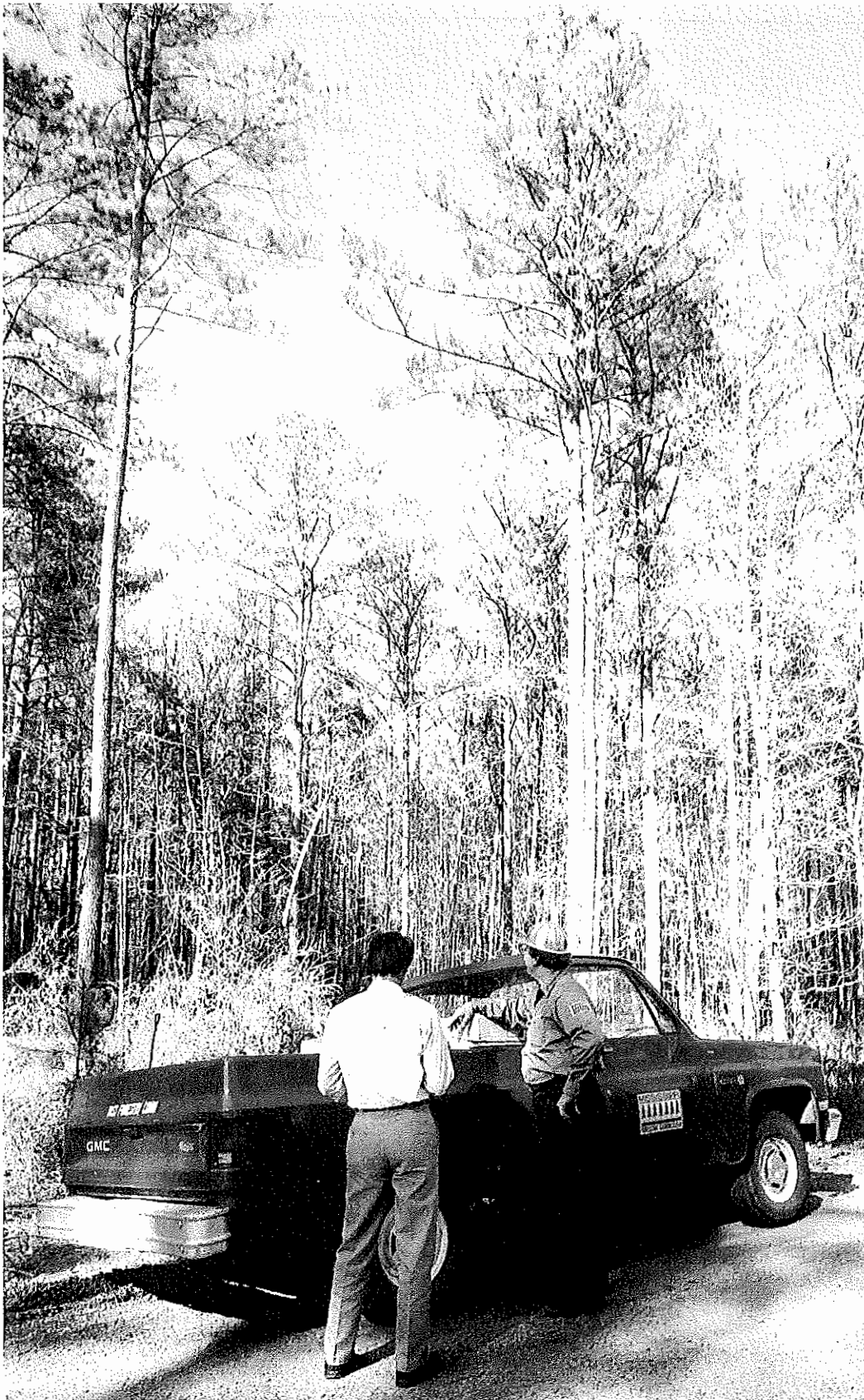
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Mississippi's future as a timber producing state relies on the forestry perceptions and decisions of thousands of private landowners.

The Economics of Public Assistance for Nonindustrial Private Timber Sales in Mississippi

Introduction and Study Objectives

The U.S. South has many forestry advantages, yet public and private efforts are increasingly needed to encourage reforestation and active forest management in the region. The review draft of "The South's Fourth Forest, Alternatives for the Future" (USDA Forest Service 1987a) highlights the urgent need for increased efforts to ensure future timber availability:

...projections of resource change mean that the South is facing a future of rising stumpage and roundwood product prices, much lower rates of growth in timber harvests, and declines in employment in the forest industries" (p. xxxv).

The report also highlights great opportunities to increase forest productivity in the South, and to sustain continued growth in forestry employment and income—growth that will not occur without continued public assistance directed to the present and future forestry needs in the region.

Public assistance for forestry includes fire protection, research and information transfer, reforestation incentives, and other direct and indirect programs to assist public and private timber producers and wood products manufacturers and consumers. Forestry assistance programs are funded by local, state, and federal agencies. In recent years, continued funding for some programs has been questioned.

Several recent studies have compared the costs and benefits of various types of public forestry assistance. This report summarizes a study to assess the value of public assistance for private nonindustrial timber sales in Mississippi. Timber sale assistance in Mississippi was chosen for evaluation for several reasons:

- Mississippi is an important timber producing state. It is very representative of forestry conditions in the South, and is important to the region's future in timber production and processing.
- As with other states in the South, most timberland in Mississippi is owned by private individuals. Future timber production relies on their forestry perceptions and decisions.
- When private individuals sell timber, their perceptions of forestry are directly influenced. Reforestation decisions depend on their knowledge of options and how they perceive the economic and environmental consequences of forestry.

Timber sale assistance involves contacts between landowners and professional foresters—contacts that are certain to influence landowners' forestry decisions and future timber production. This study addressed "How much influence does timber sale assistance have on the physical and financial

Timber sales directly impact landowners' attitudes about the economic and environmental consequences of actively managing and reforesting their lands.



information was collected for all timber sales, with the land-owner information obtained by personal interviews.

Results

Study objectives were to estimate the **physical and financial** results of public assistance for nonindustrial private timber sales in Mississippi, and to evaluate the **social benefits and costs** of providing such assistance. The following sections correspond to the three objectives.

Physical Results

Initial site and stand conditions were similar. The physical results of a timber sale depend on stand conditions before harvest, and on the type and intensity of cutting performed. Before harvest, the stands involved in the present study were generally similar. The initial volumes in Table 1 were estimated by adding residual and harvest volume estimates; initial volumes per acre were statistically different only in the total pine component. MFC-assisted tracts had

Table 1. Initial, harvested, and residual volumes of pine and hardwood pulpwood and sawtimber (assisted versus unassisted).

	Mean volume (cubic feet per acre)		Difference of means	Computed t-statistic ¹
	Assisted	Unassisted		
<i>INITIAL VOLUMES</i>				
<i>Pine</i>				
Pulpwood	125	82	43	1.8038
Sawtimber	1,365	841	524	2.0658
Total	1,490	923	567	2.1695*
<i>Hardwood</i>				
Pulpwood	156	229	-73	-1.3832
Sawtimber	225	266	-41	-0.4663
Total	381	495	-114	-0.9024
TOTAL	1,871	1,418	453	1.7469
<i>HARVESTED VOLUMES</i>				
<i>Pine</i>				
Pulpwood	54	47	7	0.3877
Sawtimber	626	681	-55	-0.2891
Total	680	728	-48	-0.2478
<i>Hardwood</i>				
Pulpwood	83	123	-40	-0.8552
Sawtimber	127	174	-47	-0.6459
Total	210	297	-87	-0.7656
TOTAL	890	1,025	-135	-0.7801
<i>RESIDUAL VOLUMES</i>				
<i>Pine</i>				
Pulpwood	71	35	36	2.0652
Sawtimber	738	160	578	3.0482*
Total	810	195	615	3.0818*
<i>Hardwood</i>				
Pulpwood	73	106	-33	-1.3527
Sawtimber	98	92	6	0.1052
Total	171	198	-27	-0.3510
TOTAL	981	393	588	2.3654*

¹t-test statistic, as presented by Freese (1974).

* Indicates statistically significant differences (df = 18, $\alpha = 0.05$). Column totals may not add due to rounding.

Table 2. Characteristics of timber sales and landowners with MFC-assistance and without direct forestry assistance.

Characteristic	Number of Responses			
	Assisted	Unassisted		
HARVEST AND OBJECTIVES				
<i>(1) Who determined what trees would be harvested?</i>				
County forester	19	0		
Timber buyer or logger	0	11		
Landowner	0	5		
Other	1	4		
<i>(2) How was timber sold?</i>				
As marked	12	1		
By board foot	3	3		
By cord	3	0		
Diameter limit	0	3		
Clearcut	1	12		
Other	1	1		
<i>(3) How was the sale administered?</i>				
First buyer's offer accepted	4	9		
Highest sealed bid	9	1		
Highest oral bid	5	9		
Other	2	1		
<i>(4) Rate the reason for harvesting timber:</i>				
	Moderate/High	Low/None	Moderate/High	Low/None
Timber was nature	17	3	17	3
Offered good price	14	6	20	0
Land clearing	0	20	1	19
Pay estate taxes	0	20	4	16
Other income needs	4	16	11	9
Salvage cut	10	10	7	13
Improved residual growth	19	1	5	15
<i>(5) Describe type of harvest:</i>				
Clearcut	2	20		
Seed tree cut	3	0		
Partial cut	15	0		
<i>(6) Objectives that influenced the choice of harvesting method:</i>				
Save trees for seed	6	1		
Did not want clearcut	6	0		
Save timber for wildlife	1	0		
Save timber for future cut	8	2		
Wanted highest possible price	0	17		
Other	4	0		
<i>(7) Rate your satisfaction with the harvest:</i>				
High	17	8		
Moderate	2	7		
Low	1	5		
REFORESTATION				
<i>(8) Was site preparation performed?</i>				
With machines	0	0		
Controlled burn	5	4		
Herbicides	1	0		
Other	2	0		
No action taken	12	16		

Table 2. continued

Characteristic	Number of Responses	
	Assisted	Unassisted
<i>(9) Methods of ensuring reproduction:</i>		
Planted pine seedlings	6	3
Seeded by hand	0	0
Left mature trees	12	0
Selective cut	0	1
Left site to reforest itself	2	16
<i>(10) Did you apply for cost-share assistance?</i>		
State	2	0
Federal	7	3
None	11	17
OWNER INFORMATION		
<i>(11) Were you aware that you could obtain state, industry, or consulting advice on harvests?</i>		
Yes	20	8
No	0	12
<i>(12) Which category best describes where you live?</i>		
City with population greater than 100,000	3	1
City with population 10,000-99,000	3	4
City or town with population less than 10,000	9	9
On a farm	2	3
Rural area, nonfarm	3	3
<i>(13) Average annual income:</i>		
\$ 5,000 or less	0	0
\$ 5,000-\$ 9,999	2	1
\$10,000-\$14,999	3	2
\$15,000-\$24,999	3	5
\$25,000-\$34,999	7	8
\$35,000-\$44,999	2	2
Greater than \$45,000	3	2

significantly more total pine volume before and after harvest than did the unassisted tracts.

Average stand age for the assisted and unassisted tracts was identical—39 years. The acreage harvested was not statistically different; assisted sales averaged 47 acres and unassisted sales averaged 61 acres (computed t-statistic = -1.4873). Site index was estimated for three of the timber sale pairs. The base-age 50 site index averaged 77 for the MFC-assisted tracts and 83 for the unassisted tracts.

Landowners had potentially similar objectives. The types and intensities of timber harvesting on MFC-assisted and unassisted tracts resulted in significant physical differences. Differences in forestry actions and attitudes, however, have been shown to be positively related to certain landowner characteristics. Straka *et al.* (1984), for example, found a positive relationship between forestry investment behavior and the financial positions and forest tract sizes of NIPF landowners in Mississippi. Forestry assistance should therefore be evaluated by comparing the actions of landowners with potentially similar forestry objectives and options. Landowners in the present study were similar with respect to areas

of residence, and, more importantly, they were very similar with respect to income (Table 2).

MFC-assisted landowners considered post-harvest conditions. On the assisted sales, post-harvest conditions were a definite consideration. In nearly all of the 20 cases, a partial harvest was performed, with timber sold as marked by the county forester. With MFC assistance, harvests reflected reforestation, wildlife, and potential future timber harvests (Table 2).

Most unassisted timber sales were clearcut with very little consideration for pine regeneration. The harvest volumes were greater on tracts without forester assistance (Table 1), a clear indication of the type of cutting and the intensity of cutting performed in most unassisted cases. Clearcuts without provision for pine regeneration were the most common practice (Table 2), with clearcutting specified in most cases because the landowner wanted to receive the greatest possible income from the sale. Eleven of the twenty unassisted landowners stated that the timber buyer or logger selected the trees to be harvested.

MFC-assisted landowners were very satisfied with their

timber sale results. Satisfaction with the harvest is an important result of MFC timber sale assistance. The MFC-assisted sales were primarily partial harvests, and for pine forest types in Mississippi, partial harvests may be followed by final harvests in 5 to 20 years. The most opportune time to encourage pine regeneration is while plans are being made for final harvest (Royer and Kaiser 1985, Royer 1987)—plans that are likely to include the advice of a forester if landowners were satisfied with earlier harvest results.

Financial Results

With respect to their forestry investments, are landowners who receive MFC assistance in a better financial position than those who sell timber without direct assistance from a forester? *The answer is yes.* Prices received are generally higher, and considering future harvests takes advantage of the marketing flexibility of standing timber.

Timber sales with forester assistance receive higher prices. Technical forestry assistance has been shown to increase the timber prices received by private landowners in Montana (Jackson 1985) and Georgia (Cubbage *et al.* 1985).

In the present study, direct price comparisons are difficult because of incomplete data—a high proportion of the unassisted landowners chose not to report timber prices, and because averages of the incomplete, unpaired data tend to mask geographic and temporal price variations.

The average pine pulpwood price for assisted sales was \$11.71, and for unassisted sales the average price was \$10.55 (with 7 and 4 observations, respectively). The 11 percent difference is relatively small, as expected for pulpwood, since pulpwood prices are not as variable or as buyer-sensitive as sawtimber prices. The pine sawtimber prices averaged 20 percent higher for assisted sales; sawtimber prices were \$160/MBF (Doyle) for assisted sales and \$133 for unassisted

sales (with eight and four observations, respectively).

Another problem in comparing timber prices relates to the way in which stumpage value is determined. Stumpage value is the amount remaining when expected logging, transportation, and processing costs are subtracted from the value of products that can be processed from a specific stand of timber (Duerr 1985). With other factors equal, logging costs per unit of timber are higher for partial harvests than for clearcuts, and timber prices are therefore lower. Prices should be compared between forester-assisted clearcuts and unassisted clearcuts, or between forester-assisted partial cuts and unassisted partial cuts. Our sample of timber sales in Mississippi precluded such a comparison and the stumpage price difference for pine sawtimber may therefore be very conservative. Only two of the eight observations for pine sawtimber prices on assisted sales were for clearcuts; all unassisted sales were clearcuts, yet there was still a \$30/thousand stumpage price difference for assisted sales. The sawtimber price comparison was for sales from comparable geographic areas within the state.

Although not a direct price comparison, higher prices with forester assistance in Mississippi were also very clearly indicated by the methods of sale administration. Consulting foresters and public agency foresters most frequently recommend that timber be sold with sealed bids—per unit prices are usually higher when buyers know they are competing with other buyers. Of the MFC-assisted sales, nine were sold for the highest sealed bid; of the unassisted sales, nine were sold to the first buyer that made an offer (Table 2).

Partial harvests allow flexibility in future marketing decisions. Before selling timber, the biological needs of a stand and current and expected future market conditions should be considered. One of the distinctive aspects of forestry is the ability of a stand “to produce a salable product over many years—there is great flexibility in the time of harvesting” (Gregory 1987). With partial harvests, MFC-assisted landowners are flexible in the timber products they can sell and in their timing of future harvests.

The financial importance of maintaining flexibility in timber marketing decisions in Mississippi is evident from present market conditions and price projections. Stumpage prices are low at present, and they have been relatively low for several years (Figure 3).

A recent projection for Mississippi, however, estimates pine sawtimber prices between 1996 and the year 2000 will be 34 percent higher than from 1981 to 1985, after accounting for inflation (Resource Information Systems, Inc. 1985). For 34 percent higher prices in 15 years, the compound rate of real price appreciation would be 2 percent per year.

The USDA Forest Service (1987a) projects softwood stumpage prices in the U. S. South to increase at an even higher compound rate—3.1 percent per year. Mississippi landowners with stands that can be harvested within the next 20 years will enjoy the financial rewards of real price increases compounded with growth increases, a reward that will not be available for recently clearcut areas.

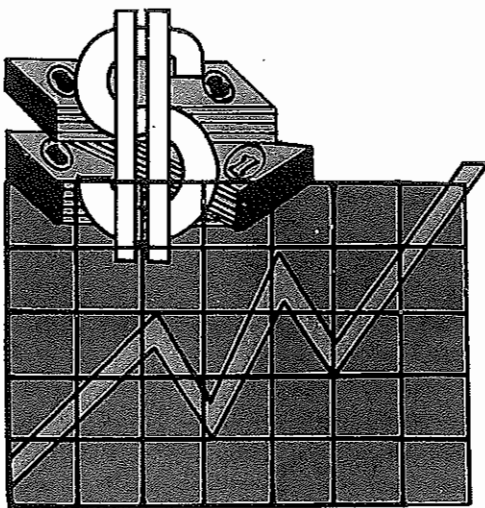


Figure 2. Landowners who receive assistance from a forester generally receive higher prices for timber than those who sell without assistance.

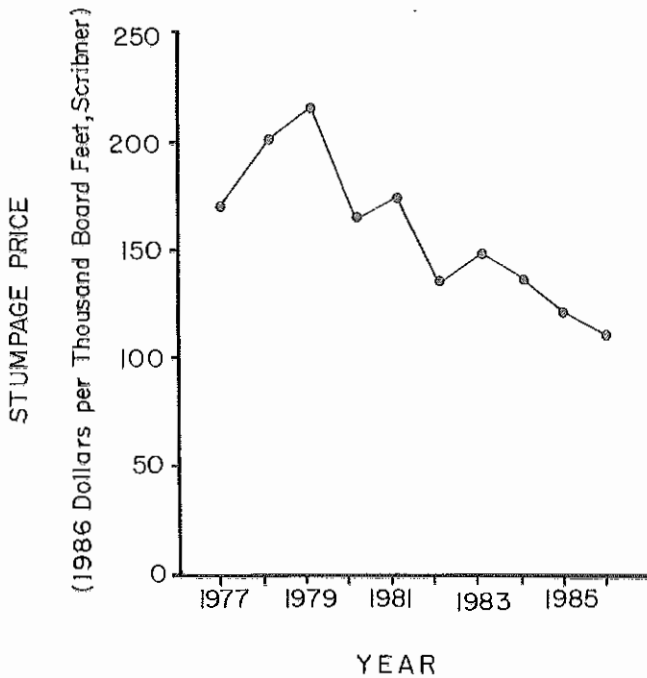


Figure 3. Stumpage prices have been relatively low for several years. Flexibility in the timing of harvests is extremely important to rates of return from forestry investments.

Social Benefits and Costs

Is timber sale assistance in Mississippi an efficient use of public dollars? *The answer is yes*—even with very conservative assumptions about the benefits from such assistance.

The social benefits and costs of MFC assistance are marginal benefits and costs—the additional benefits and the

additional costs of direct assistance for timber sales. The cost of county forester activities are compiled annually by the Commission. On tracts below 40 acres, the costs of MFC timber marking assistance were \$8.67, \$9.06, and \$8.87 per acre, for fiscal years 1983, 1984, and 1985, respectively (Sims 1987). The costs are a statewide average, and they include all of the overhead, labor, and miscellaneous expenses associated with timber sale assistance.

Several assumptions are necessary to estimate the marginal social benefits of MFC timber sale assistance. Values must be assumed, for example, for prices, yields, and other variables associated with different management practices (Table 3). Based on the sample of 40 timber sales in Mississippi, the analysis initially assumes that MFC-assisted landowners perform partial harvests and unassisted landowners clearcut their stands.

Another important assumption for comparing assisted and unassisted timber sales is the proportion of benefits that can be directly attributed to MFC assistance. The analysis initially assumes all benefits are from MFC assistance. The initial assumptions that are liberal are then examined, and assistance costs are compared with very conservative benefit estimates.

Public timber sale assistance dollars are an investment, expected to have a positive return to society. Under the initial assumptions outlined, the MFC program has a 12 percent rate of return. The 12 percent estimate is net of inflation, and reflects both conservative and liberal assumptions.

The estimate is *conservative* since no stumpage price differential was assumed, and since many social benefits of pine regeneration and management have not been included. The benefits of erosion control and increased future softwood timber supplies, for example, are ignored in the 12 percent rate. Conversely, the estimate is *liberal* since it was assumed that all assisted sales would be partial harvests and all

Without assistance from a forester, clearcuts without provision for pine regeneration were the most common practice.



Table 3. Initial assumptions for estimating the marginal benefits of MFC assistance for nonindustrial private timber sales.

Item	Assisted	Unassisted
Type of Sale	Partial Harvest	Clearcut
Volume		
Initial	9,200 bd.ft. (Scribner), ¹ 7.8 cds.	9,200 bd.ft. (Scribner), 7.8 cds.
Harvested	3,200 bd.ft. (Scribner), 7.8 cds.	9,200 bd.ft. (Scribner), 7.8 cds.
Next harvest	11,320 bd.ft. (Scribner) in 8 years	Value included in land expectation value ² (below)
Regeneration	Provided after harvest; land expectation value of \$200/acre assumed.	No provision for pine; land expectation value of \$50/acre assumed.
Prices	\$138/MBF (Scribner), \$11/cd. 3.1% per year real price appreciation (for next harvest)	\$138/MBF (Scribner), \$11/cd. Not applicable (area clearcut)
Costs	\$9/acre for initial timber sale assistance	Not applicable

¹ Schumacher and Coile (1960); loblolly pine yield for a natural stand in the coastal plains, age 40, site index 70.

² Land expectation values represent the present value of all future net income and therefore embody several assumptions themselves. The values assumed in the analysis are based on expected yields, prices, and costs for Mississippi, using a discount rate of 4 percent. The rate of return results are not highly sensitive to the land expectation values assumed.

unassisted sales would be clearcuts (given similar initial stands), and since it was assumed that all of the benefits of partial harvests (followed by final harvests and pine regeneration) versus clearcuts (without pine regeneration) were directly attributable to the MFC costs of timber sale assistance. In reality, some landowners will practice good forestry without assistance and some will practice poor forestry even though they receive technical assistance.

Maintaining the conservative assumptions, how sensitive is the 12 percent estimate to the initial liberal assumptions? Figure 4 illustrates the relationship between the proportion of benefits attributable to MFC assistance and the program's rate of return.

If the social discount rate is 4 percent, then MFC timber sale assistance is an efficient use of public funds, even if less

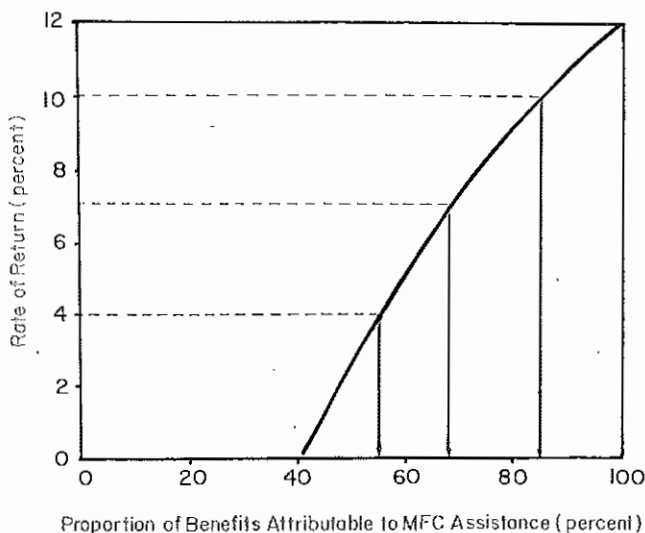


Figure 4. Rates of return to society are favorable under a wide range of assumptions about the benefits of timber sale assistance.

than 60 percent of the differences actually occur and are due to assistance. For 7 and 10 percent discount rates, the program must directly account for 70 and 85 percent of the estimated benefits. The timber sale assistance program yields good returns to society, even with very conservative estimates of program benefits.

Discussion

The economic and social potential of Mississippi's forests was recently examined in a planning effort known as *Pathways for Forestry* (see Mississippi Forestry Commission 1983). Twenty-one forestry goals were identified in the planning effort, and increasing the annual rate of reforestation of NIPF lands ranked number one (Cole 1984). The purpose of increasing NIPF reforestation was "to assure that Mississippi will furnish its share of the softwood timber requirements for itself and the nation in the future.

The present study addressed future timber inventory; since MFC-assisted timber sales were partial harvests, regeneration decisions will be made in the future. The high degree of satisfaction with their partial harvests assures that many MFC-assisted landowners will seek the advice of a forester at final harvest, the time when reforestation options should be considered.

MFC assistance for NIPF timber sales in Mississippi has physical and financial results that are positive for the state and the nation. The relative benefits and costs were compared by examining the rate of return for assistance funds. The study therefore addressed another goal of the *Pathways for Forestry* effort—to develop cost/benefit comparisons for all public forestry programs. Public programs must be effective, but must also be able to demonstrate cost-effectiveness if they are to compete for limited state and federal funds.

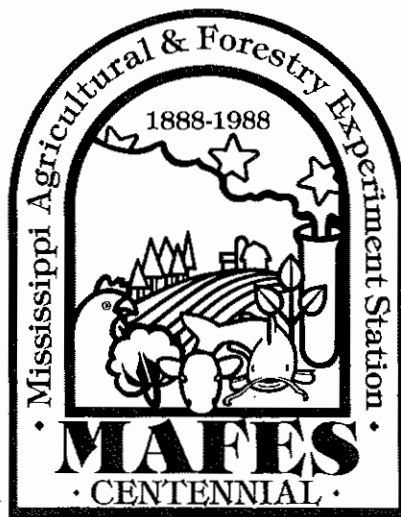
From the standpoint of society, it is very beneficial for technical forestry assistance to be available to NIPF land-

owners with merchantable timber. For society, of course, the important issue is whether or not a forester is consulted when planning a sale, not whether the forester is publicly or privately employed. This study indicates the general importance of a specific type of public forestry assistance. Other types of public assistance have also been evaluated in Mississippi. Straka *et al.* (1986) for example, appraised the economic results of MFC service forester activities.

Forestry consultants, MFC personnel, and other professional foresters are extremely important sources of information and service in all areas of forestry. Their efforts to ensure active forest management and reforestation are society's foremost defenses against the conditions cited in the introduction—conditions which could lead to “declines in employment in the forest products industries.”

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