

HOW MUCH IS YOUR PINE PLANTATION WORTH?

A Southern Forest Experiment Station computer program was designed to predict yield on three separate pine plantations - poor, average, and good sites applying various thinning techniques. The poor site would only grow dominant trees 70 feet tall at age 50; the average site would grow trees 85 feet tall in that same period of time; and the good site would have 100-foot-tall trees as the tallest in the stand at age 50.

The three experimental plantation stands had 400 live trees per acre at age 10 and were thinned first at age 15, then again at age 22. At age 35 all the trees were harvested and the sites replanted. (Landowners not desiring to do a complete regeneration harvest, or clearcut, at stand age 35 could substitute a shelterwood cut or a seed tree cut wherein some trees are left to re-seed the tract. Once a satisfactory number of seedlings are established, the residual trees would then be removed.)

Choose Your Site

Select a table from the right which is appropriate for your property. The tables show the resulting yield and harvest incomes from all three sites, using the market values of \$19.25/cord pulpwood and \$385/thousand board feet for sawlogs. The average return per acre per year was computed by dividing the total income per acre by 35 years.

Invest Sale Revenue

Investing the income from the age 15 and age 22 thinnings will increase the overall income at age 35.

See your local Service Forester for assistance with your timberland or contact a Consulting Forester (your Service Forester has a list of consultants).

Poor Site (Site Index 70)		
<u>Age</u>	<u>Amount</u>	<u>Market</u>
15	6.775 cords	\$130.42
22	5.2 cords	\$100.10
35	3,464 board feet	<u>\$1,333.64</u>
Total income/acre		\$1,564.16
Average return per acre/year		\$44.69

Average Site (Site Index 85)		
<u>Age</u>	<u>Amount</u>	<u>Market</u>
15	12.57cords	\$241.97
22	5.43 cords	\$104.53
	486 board feet	\$187.11
35	1.61 cords	\$30.99
	8,335 board feet	<u>\$3,208.98</u>
Total income/acre		\$3,773.58
Average return per acre/year		\$107.82

Good Site (Site Index 100)		
<u>Age</u>	<u>Amount</u>	<u>Market</u>
15	13.87 cords	\$267.00
	612 board feet	\$235.62
22	4.78 cords	\$92.02
	1,622 board feet	\$624.47
35	20,681 board feet	<u>\$7,962.19</u>
Total income/acre		\$9,181.29
Average return per acre/year		\$262.32



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