GOOD FORESTRY AT A GLANCE

A Guide for Managing Even-Aged Loblolly Pine Stands

on a medium site (site index: 85, base 50 years; or 60, base 25 years)

NATURALLY REGENERATED STANDS

Step	Age	Operation and probability of application	Starting condition N	Starting condition BA	Expected results N	Expected results BA	Expected results DBH	Cost $	Returns Cords	Returns MBF	Returns $
		SAPLING STAGE (less than 4.6 inches in DBH)									
1	0	Prescribed burning	–	–	–	–	–	–	–	–	–
2	3	Removal of seed trees	4	9	0	0	0	9	0	1.0	0
3	4	Precommercial thinning (with rolling chopper)	> 3500	–	1500	–	–	55	–	–	–
4	4	Precommercial thinning (with brush saw) and pine release	1500	–	445	–	–	45	–	–	–
5	6	Aerial spray for brush control—20%	–	–	–	–	–	70	–	–	–
		No treatment—80%	–	–	–	–	–	–	–	–	–
6	6	Ice storm	435	–	425	–	–	–	–	–	–
		PULPWOOD STAGE (4.6 to 9.6 inches DBH)									
7	14	Pulpwood thinning (long pulpwood)	400	105	230	60	7	14	12	–	240
8	15	Ice storm and salvage cut (short pulpwood)	230	65	195	55	7	14	2	–	22
9	20	Prescribed burning	–	–	–	–	–	11	–	–	–
10	20	Pulpwood thinning (long pulpwood)	195	95	120	60	9	14	10	–	200
		SAWTIMBER STAGE (9.6 inches DBH and over)									
11	26	Prescribed burning	–	–	–	–	–	11	–	–	–
12	26	Ice storm and salvage cut (logs)	120	95	90	70	12	13	2	1.7	544
13	31	Prescribed burning	–	–	–	–	–	11	–	–	–
14	31	Log thinning	90	95	65	70	14	13	2	2.3	736
15	36	Prescribed burning	–	–	–	–	–	11	–	–	–
16	36	Log thinning	65	90	50	70	16	13	1	2.5	800
17	38	Ice storm	50	75	50	75	16	0	0	0	0
18	41	Prescribed burning	–	–	–	–	–	11	–	–	–
19	41	Log thinning	50	80	40	70	17	13	1	1.7	544
20	45	Prescribed burning	–	–	–	–	–	11	–	–	–
21	45	Main harvest cut of all merchantable trees (except four seed trees)	40	75	0	0	19	13	5	12.7	4064
22		UNCOMPOUNDED TOTALS							35	20.9	7150
23		TOTAL ACCRUED COMPOUNDED RETURN									$12,284
24		TOTAL ACCRUED COMPOUNDED COSTS (Range $939 to $2887)						$2320			
25		NET ACCRUED COMPOUND RETURNS									$9963
26		DISCOUNTED ANNUAL NET ACCRUED COMPOUND RETURNS (EQUAL ANNUAL EQUIVALENT)									$47

PLANTED STANDS

Step	Age	Operation and probability of application	Starting condition N	Starting condition BA	Expected results N	Expected results BA	Expected results DBH	Cost $	Returns Cords	Returns MBF	Returns $
		SITE PREPARATION									
1a	0	Aerial chemical spraying and burn—55%	–	–	–	–	–	100	–	–	–
1b	0	Burn only—20%	–	–	–	–	–	15	–	–	
1c	0	Ground mobile chemical spray and burn—5%	–	–	–	–	–	105	–	–	–
1d	0	Shear bed and burn—5%	–	–	–	–	–	110	–	–	–
1e	0	Shear rake pile burn—5%	–	–	–	–	–	160	–	–	–
1f	0	Other site preparation applications—10%	–	–	–	–	–	115	–	–	–
		SAPLING STAGE (less than 4.6 inches in DBH)									
2	1	Planting	485	–	400	–	–	60	–	–	–
3	3	Aerial spray to release pine and control hardwood—25%	390	–	390	–	–	70	–	–	–
4	4	Precommercial thinning (with brush saw)—25%	>1000	–	385	–	–	45	–	–	–
5	6	Ice storm	380	–	370	–	–	–	–	–	–
		PULPWOOD STAGE (4.6 to 9.6 inches DBH)									
6	13	Pulpwood thinning (long pulpwood)	350	100	225	60	7	14	9	–	180
7	14	Ice storm and salvage cut (short pulpwood)	225	70	190	60	7	14	2	–	22
8	19	Pulpwood thinning (long pulpwood)	190	95	125	60	9	14	9	–	180
		SAWTIMBER STAGE (9.6 inches DBH and over)									
9	20	Aerial spray for competition control—75%	–	–	–	–	–	70	–	–	–
10	25	Prescribed burning	–	–	–	–	–	11	–	–	–
11	25	Ice storm and salvage cut	125	100	85	70	12	13	3	2.2	704
12	30	Prescribed burning	–	–	–	–	–	11	–	–	–
13	30	Log thinning	85	95	65	70	14	13	2	2.5	800
14	35	Prescribed burning	–	–	–	–	–	11	–	–	–
15	35	Main harvest of all merchantable trees	65	95	0	0	16	13	5	9.9	3168
16		UNCOMPOUNDED TOTALS							31	14.6	5054
17		TOTAL ACCRUED COMPOUNDED RETURNS									$6680
18		TOTAL ACCRUED COMPOUNDED COSTS (Range $1464 to $2650)						$1935			
19		NET ACCRUED COMPOUNDED RETURNS									$4967
20		DISCOUNTED ANNUAL NET ACCRUED COMPOUNDED RETURNS (EQUAL ANNUAL EQUIVALENT)									$45