

Caliciopsis Canker Study

DRAFT: Preliminary Summary Report, June 27, 2017

Site 1: New Hampshire

Grade	Code	Number of Boards	Board Feet	Value As Is	Value if no C.P.
Select	C	1	6.00	\$7.65	\$7.65
Select	D	12	82.00	\$98.95	\$98.95
Finish	2	60	372.33	\$324.57	\$324.57
Premium	3	188	1305.33	\$1,137.34	\$1,137.34
Standard	4	275	1799.00	\$1,275.10	\$1,299.74
Industrial	5	32	185.33	\$75.99	\$96.22
TOTAL:		568	3750.00	\$2,919.60	\$2,964.47

Loss = \$44.87

If 10 million bf processed annually = \$119,700 annual loss due to *C. pinea*

Site 2: New Hampshire

Grade	Code	Number of Boards	Board Feet	Value As Is	Value if no C.P.
Select	C	0	0.00	\$0.00	\$0.00
Select	D	0	0.00	\$0.00	\$0.00
Finish	2	24	150.00	\$127.74	\$127.74
Premium	3	123	954.25	\$809.70	\$809.70
Standard	4	371	2574.33	\$1,824.06	\$1,882.30
Industrial	5	31	186.33	\$76.40	\$80.76
TOTAL:		549	3864.92	\$2,837.90	\$2,900.49

Loss = \$62.59

If 10 million bf processed annually = \$161,944 annual loss due to *C. pinea*

Site 3: Maine

Grade	Code	Number of Boards	Board Feet	Value As Is	Value if no C.P.
Select	C	2	9.33	\$11.23	\$11.23
Select	D	12	63.00	\$73.93	\$73.93
Finish	2	36	208.33	\$181.25	\$181.25
Premium	3	120	838.83	\$717.01	\$717.01
Standard	4	361	2425.33	\$1,628.57	\$1,716.89
Industrial	5	113	795.83	\$326.29	\$331.87
TOTAL:		644	4340.57	\$2,938.28	\$3,032.18

Loss = \$93.90

If 10 million bf processed annually = \$216,326 annual loss due to *C. pinea*

Changes in Grade due to Caliciopsis Canker

	Number of Boards, per Site		
	Site 1	Site 2	Site 3
1 grade change:	33	57	60
2 to 3	7	4	12
3 to 4	21	51	48
4 to 5	5	2	0
2 grade changes:	6	6	27
2 to 4	1	6	26
3 to 5	5	0	1
3 grade changes:	0	1	3
D to 4	0	0	2
2 to 5	0	1	1

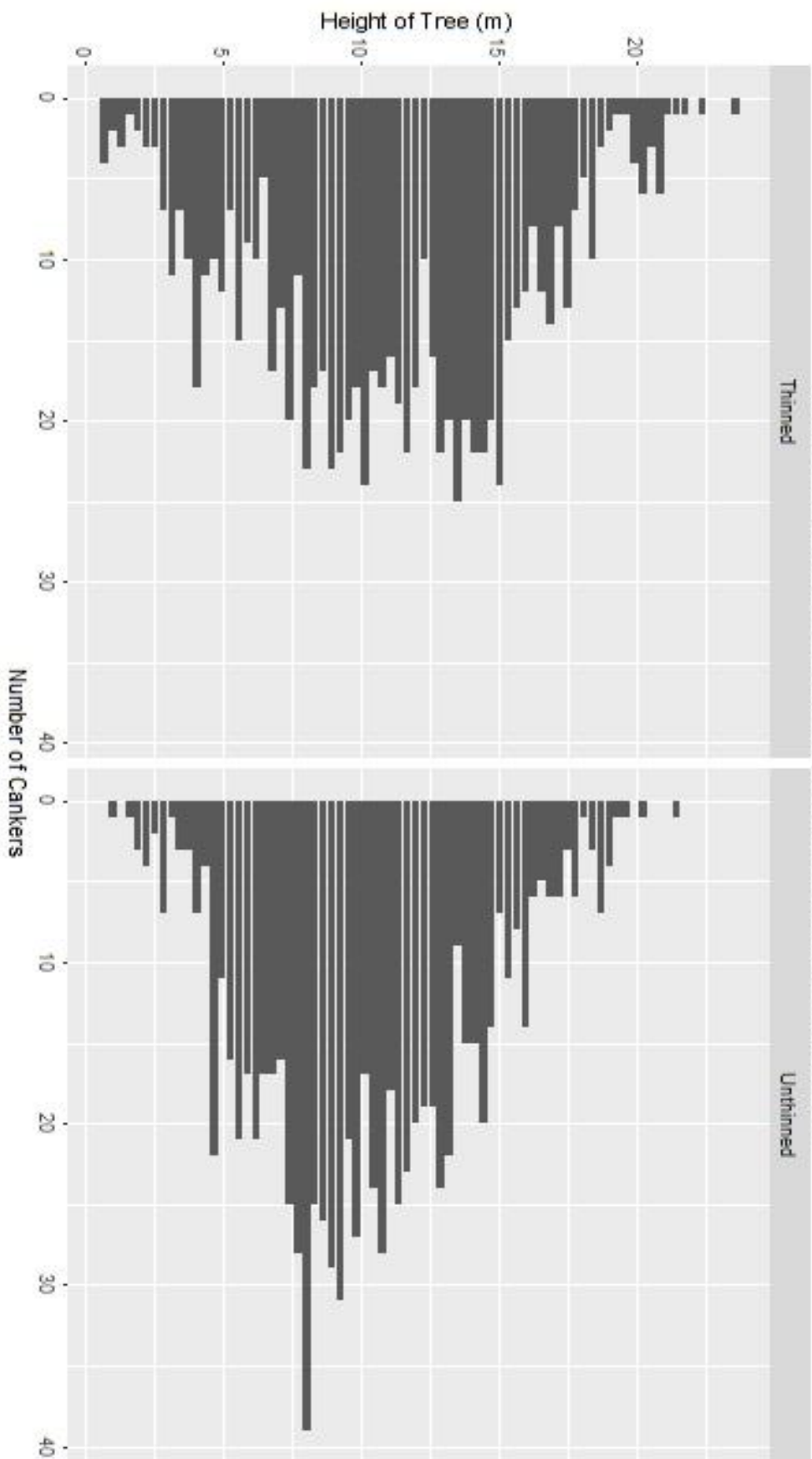
Preliminary Results:

- Per site, 28-48% boards had Caliciopsis Cankers
- Only 7.5-13% of all boards actually downgraded due to Caliciopsis
- Greatest number and largest cankers occur between 20-40 ft on tree
- Thinned stands tend to have smaller cankers and greater growth recovery
- In unthinned stands, boards with Caliciopsis Cankers are often downgraded due to other defects
- Loss estimates range from \$12 to \$22 per 1,000 bf

Recommendations:

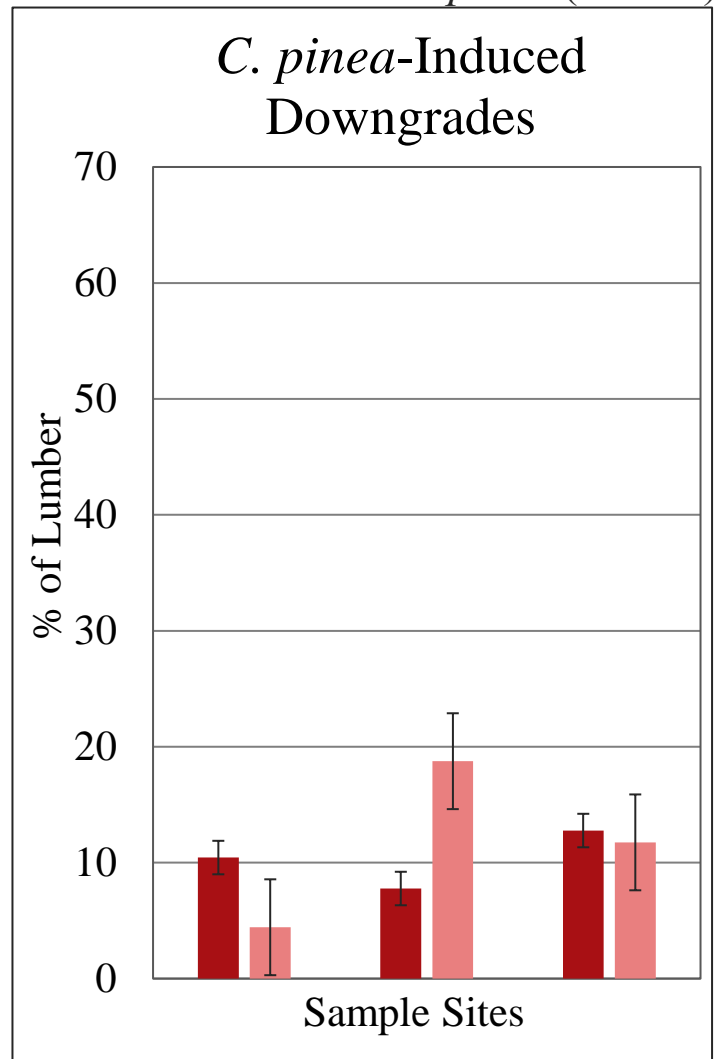
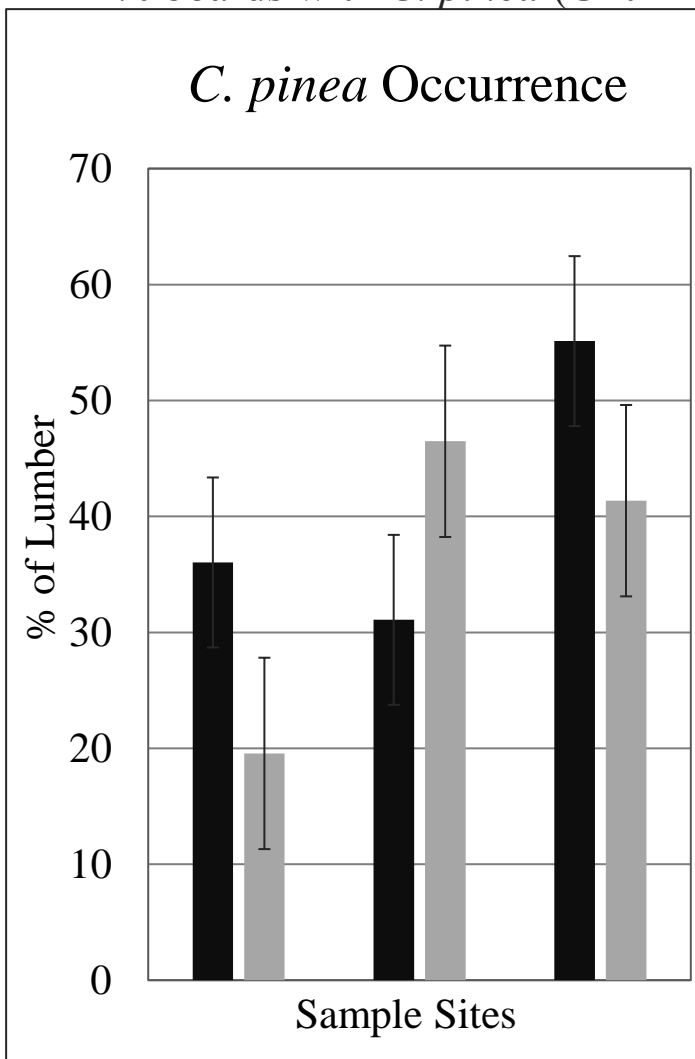
- Thin stands; avoid overstocking
 - Thin sooner rather than later if Caliciopsis damage present
- Target optimal soils (sandy, well-drained, < hardwood competition)

Number of Cankers at Every One-Third of a Meter (Every 1 Foot)



■ = % boards with *C. pinea* (Thin)
 ■ = % boards with *C. pinea* (Unthin)

■ = % boards with *C. pinea* (Thin)
 ■ = % boards with *C. pinea* (Unthin)



The figure above illustrates the percentage of sampled lumber (approximately 11,000 bf) that (A) had Caliciopsis Cankers present, and (B) was downgraded specifically due to Caliciopsis Cankers. Per stand, the percentage of lumber with Caliciopsis Cankers ranged from 18% to 55%. When averaged by site (each site included one thinned and one unthinned stand), percent of lumber with Caliciopsis Cankers ranged from 28% to 48%. When evaluating all of the lumber post-grading, only 4% to 19% of the boards in each stand were actually downgraded due to Caliciopsis, and when averaged by site only 7.5% to 13% of lumber was downgraded.