

Name: Jacob Keranen Date: 6/29/2016 (mm,dd,yyyy)

Coordinates of initial tree cored
 Easting: 345326 Northing: 5272410

Lat: _____ Long: _____

Treatment Thinning

Year: 2004 summer fall e.g. summer 1992

Description: Logger select thinning of red pine to 90 BA after removal of jack pine & other species 38yr. old

Comments: Plantation

Tally Matrix

Species	1	2	3	4

Treatment Legend

1=	<u>orig. ba < 60</u>	<u>HE=Healthy</u>
2=	<u>60-90</u>	<u>DE=Declining</u>
3=	<u>>90</u>	<u>DD=Dead</u>
4=		

Tree Environment					Core			Growing-season Year & Increment (to 0.1mm)												
TC	CC	CR	RBA	Rls	Species	DBH	Str #	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004-99	e.g. 2009
2	HE	30	100	↗	Red Pine	15.4	3/12	1.2	1.1	3	2.7	2.7	0.9	4	2.5	1	0.5	18.7		
3	DE	25	60	↘	" "	11.4	3/3	1.4	0.9	1.5	1.9	1.8	1.2	1.3	1.1	0.9	1.5	1.7	16.5	
2	HE	30	50	↗	" "	16.9	3/45	2.1	2.2	2.6	3.2	2.7	2.1	1.8	1.6	1.2	1.1	0.9	26.1	
2	DD	NA	110	↘	" "	5.6	2/1	N/A						1.3	1.1	1.0	1.1	1.6	22.3	
1	HE	40	40	↗	" "	15.7	2/2	2.1	1.7	1.9	2.4	2.8	2.2	2.7	2.5	2.1	1.8	1.4	26.3	
3	HE	35	90	↘	" "	12.0	2/3	0.7	0.5	0.8	1.1	1.0	1.4	1.1	0.9	1.7	2.1	2.3	23.8	
3	HE	25	110	↘	" "	12.8	2/4	1.3	1.1	0.9	0.3	0.4	2.1	1.8	2.2	1.7	1.3	0.7	20.2	
2	HE	30	90	↘	" "	14.9	2/5	0.9	0.9	1.1	1.6	1	0.8	0.5	0.8	0.5	0.9	0.9	20.8	
1	HE	40	80	↗	" "	13.8	2/6	1.1	1.4	1.5	2.1	1.7	1.4	1.2	1.0	0.5	0.4	1.7	26.1	
3	HE	40	80	↗	" "	16.9	2/7	1.0	1.3	1.9	1.9	2.5	2.4	2.7	2.5	3.1	3.1	2.0	29.3	
1	HE	40	60	↗	" "	16.1	2/8	1.2	2.1	2.2	1.5	2.8	1.9	1.8	1.4	0.5	0.5	1.6	32.4	
2	HE	30	70	↗	" "	12.8	2/9	1.4	1.9	1.2	1.5	2.4	4.0	4.9	4.6	2.6	1.8	4.0	24.4	
1	DE	25	50	↘	" "	9.5	2/10	0.2	0.4	0.9	1.9	1.0	1.5	0.5	0.7	1.4	1.0	1.0	24.2	
3	HE	35	70	↘	" "	14.8	1/12	1.0	1.3	1.6	2.2	2.3	1.0	1.5	0.5	0.7	1.4	1.0	23.2	
1	HE	30	90	↘	" "	15.1	1/3	1.9	2.3	1.5	1.2	1.5	2.2	1.2	1.6	0.7	0.3	1.1	20.9	

Tree Environment: TC=Treatment Condition (1-4) from treatment legend; CC=condition class: HE, apparently healthy, BL=broken leader, BB=broken branches, ST=skinned trunk, RT=roots trampled; CR=crown ratio of tree (to nearest 10%); RBA=residual basal area of trees of equal or larger diameter; Rls=release diagram showing angle and azimuth of open side from which the core was taken; for unreleased trees enter an arrow showing the azimuth of the side cored.

Core: Species=species of tree; DBH=diameter at breast height of tree; Str#=number of straw storing the core

Growing-season Year & Increment (office measurement): cores are trimmed back to the last winter wood, an increment is the width of summer wood and following winter wood; enter the year of summer wood production, enter annual increment back to the year of treatment; then enter the increment of a span of earlier years to calculate mean annual increment prior to treatment

