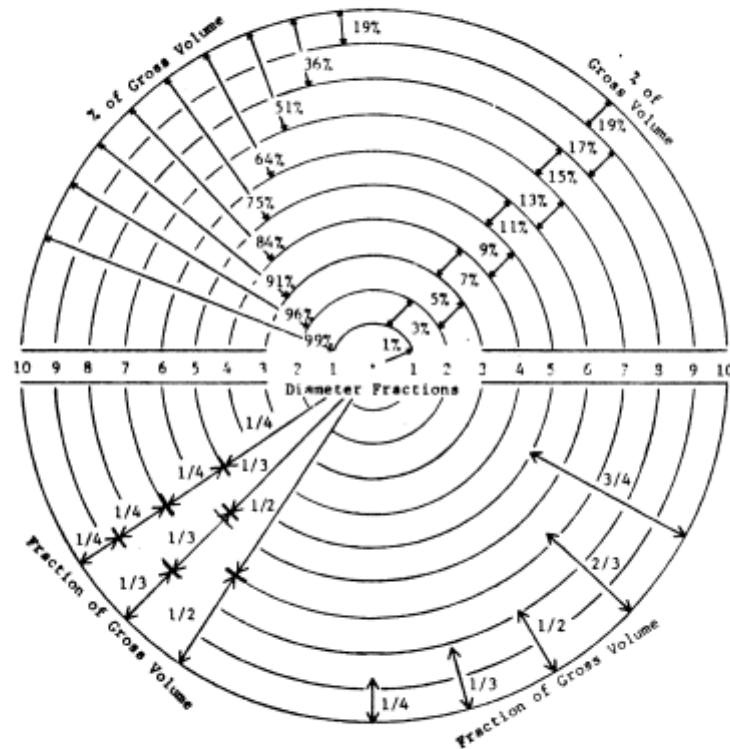


VEGETATIVE MANAGEMENT TO IMPROVE PRODUCTIVITY

Dick Courter, ACF, CF#23
Professional Consulting Forester
GENTECHS

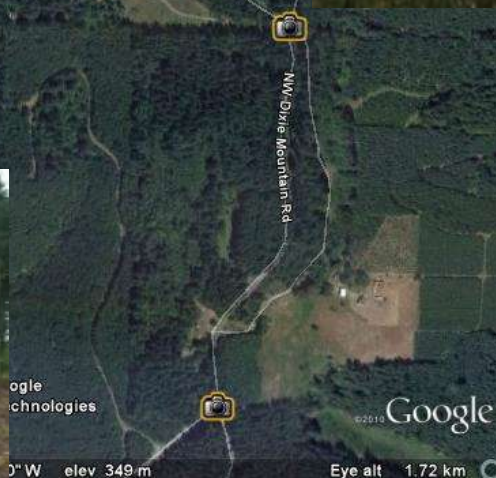


PORTIONS OF GROSS LOG VOLUME
BY 1/10 DIAMETER UNITS



Outside = $1 - DF^2$
 VOLUME % = Inside = DF^2
 "Ring" = $DE_1^2 - DE_2^2$



















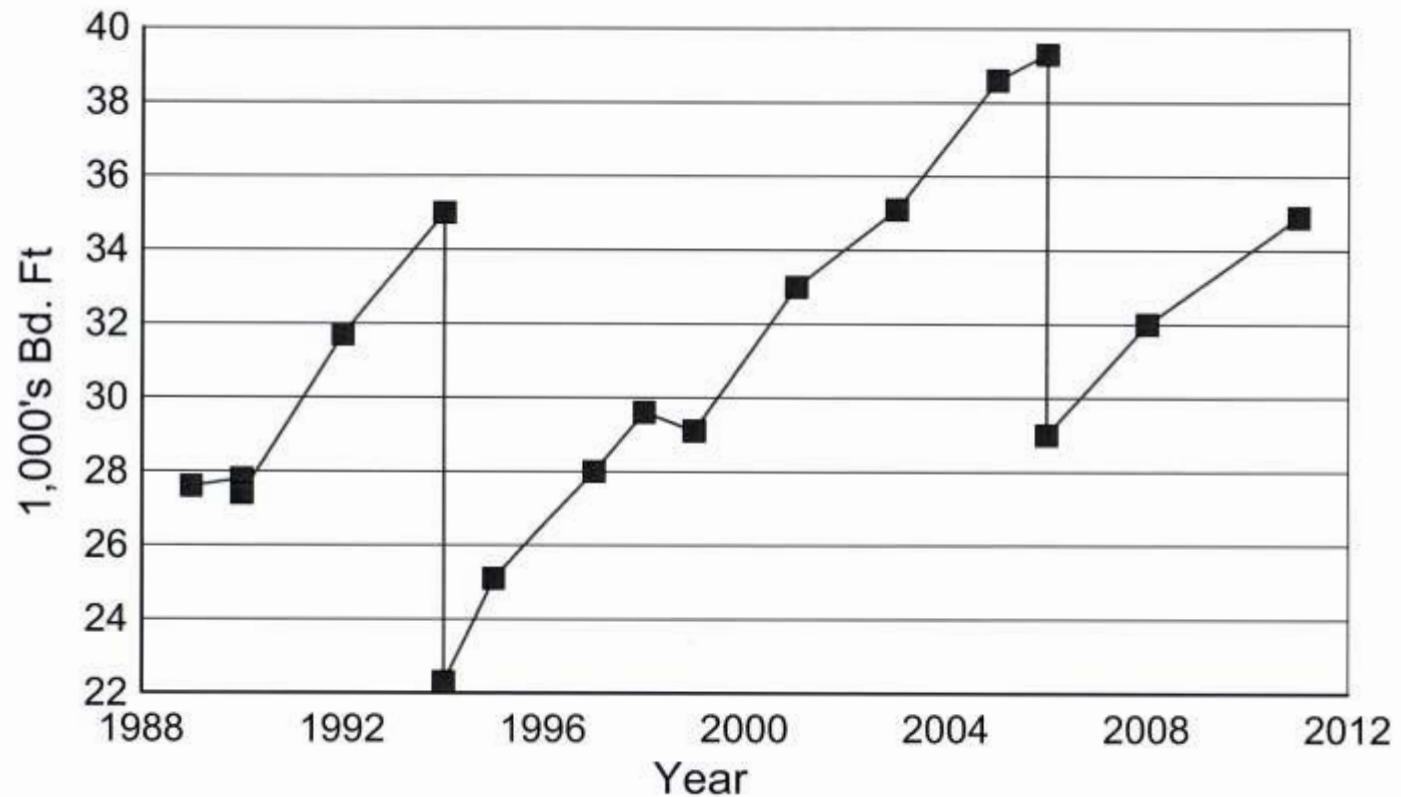
Growth Plot Established 1959

Age at 2011 = 69 years

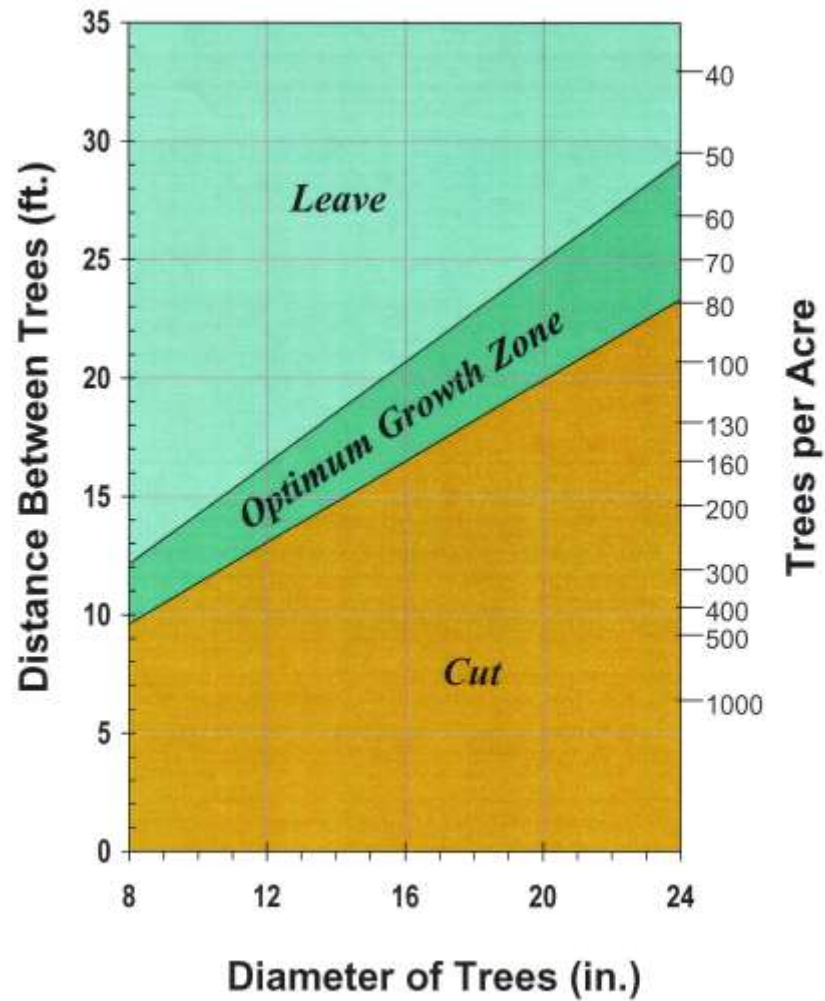
		<u>DBH</u>	<u>Trees/ac.</u>	<u>Spacing</u>	<u>MBF/ac.</u>	<u>D+</u>	<u>Relative Density</u>
	1989	14.5	150	17.0	27.6	2.5	45
	1990	14.7	150	17.0	27.8	2.3	46
	1990 cut	9.7	10		0.4		
	1990 after	14.8	140		27.4		
	1991						
	1992	15.5	140	17.6	31.7	2.1	47
	1993						
	1994	15.9	140	18.3	35.0	2.0	46
0.91	1994 cut	14.6	60		12.7		
	1994 after	16.6	80		22.3		
	1995	17.0	80	23.3	25.1	6.2	31
	1996						
	1997	17.7	80	23.3	28.0	5.6	32
	1998	18.0	80	23.3	29.6	5.3	33
	1999	18.2	80	23.3	29.1	5.0	34
	2000						
	2001	18.6	80	23.3	33.0	4.6	35
	2002						
	2003	19.1	80	23.3	35.1	4.2	37
	2004						
	2005	19.7	80	23.3	38.6	3.6	38
	2006	20.0	80	23.3	39.3	3.2	39
1.01	2006 cut	20.2	20		10.3		
	2006 after	19.9	60		29.0		
	2007						
	2008	20.2	60	26.9	32.0	6.7	30
	2009						
	2010						
	2011	20.7	60	26.9	34.9	6.2	31



Growth Plot Established 1959



Douglas-fir Thinning Guide



Assumptions: Max SDI=595, Optimum Growth = 35 to 55% of Max SDI

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