40% Canopy Cover Calcs

Ponderosa Pine (50% Cratio, Cactos model)

DBH	TotalHt	Cwidth	Tree BA	TPA at BA 50	CC at BA 50	Bole Spacing at 50 BA	Dist between crowns at 50 BA	TPA needed for 40% CC	BA with 40% CC	Bole Spacing at 40% CC	Dist between crowns at 40% CC
8	45	9.9	0.3	143.2	25%	17.4	7.6	227.6	79.5	13.8	4.0
10	50	11.4	0.5	91.7	22%	21.8	10.4	169.8	92.6	16.0	4.6
12	55	12.9	0.8	63.7	19%	26.2	13.3	133.6	104.9	18.1	5.2
14	60	14.3	1.1	46.8	17%	30.5	16.3	109.1	116.6	20.0	5.7
16	65	15.6	1.4	35.8	16%	34.9	19.3	91.5	127.8	21.8	6.2
18	70	16.8	1.8	28.3	14%	39.2	22.4	78.4	138.6	23.6	6.7
20	75	18.0	2.2	22.9	13%	43.6	25.6	68.3	149.0	25.3	7.2
22	80	19.2	2.6	18.9	13%	48.0	28.8	60.2	159.0	26.9	7.7
24	85	20.3	3.1	15.9	12%	52.3	32.0	53.7	168.8	28.5	8.2
26	90	21.4	3.7	13.6	11%	56.7	35.3	48.4	178.3	30.0	8.6

Douglas-fir (70% Cratio, Cactos model)*

DBH	TotalHt	Cwidth	Tree BA	TPA at BA 50	CC at BA 50	Bole Spacing at 50 BA	Dist between crowns at 50 BA	TPA needed for 40% CC	BA with 40% CC	Bole Spacing at 40% CC	Dist between crowns at 40% CC
8	45	15.5	0.3	143.2	62%	17.4	1.9	92.1	32.2	21.7	6.2
10	50	17.3	0.5	91.7	49%	21.8	4.5	74.1	40.4	24.2	6.9
12	55	18.9	0.8	63.7	41%	26.2	7.2	62.0	48.7	26.5	7.6
14	60	20.4	1.1	46.8	35%	30.5	10.1	53.4	57.1	28.6	8.2
16	65	21.8	1.4	35.8	31%	34.9	13.1	46.8	65.4	30.5	8.7
18	70	23.0	1.8	28.3	27%	39.2	16.2	41.8	73.8	32.3	9.2
20	75	24.3	2.2	22.9	24%	43.6	19.3	37.7	82.2	34.0	9.7
22	80	25.4	2.6	18.9	22%	48.0	22.5	34.3	90.6	35.6	10.2
24	85	26.5	3.1	15.9	20%	52.3	25.8	31.5	99.1	37.2	10.6
26	90	27.6	3.7	13.6	19%	56.7	29.1	29.2	107.5	38.6	11.1

*Note: Cryptos does not have a crown width model for redwood, so FORSEE fills it in with the Douglas-fir model

By A. Eggleton and C. Eggleton, 6/12/19

30% Canopy Cover Calcs

Ponderosa Pine (50% Cratio, Cactos model)

DBH	TotalHt	Cwidth	Tree BA	TPA at BA 50	CC at BA 50	Bole Spacing at 50 BA	Dist between crowns at 50 BA	TPA needed for 30% CC	BA with 30% CC	Bole Spacing at 30% CC	Dist between crowns at 30% CC
8	45	9.9	0.3	143.2	25%	17.4	7.6	170.7	59.6	16.0	6.1
10	50	11.4	0.5	91.7	22%	21.8	10.4	127.3	69.4	18.5	7.1
12	55	12.9	0.8	63.7	19%	26.2	13.3	100.2	78.7	20.9	8.0
14	60	14.3	1.1	46.8	17%	30.5	16.3	81.8	87.5	23.1	8.8
16	65	15.6	1.4	35.8	16%	34.9	19.3	68.7	95.9	25.2	9.6
18	70	16.8	1.8	28.3	14%	39.2	22.4	58.8	103.9	27.2	10.4
20	75	18.0	2.2	22.9	13%	43.6	25.6	51.2	111.7	29.2	11.1
22	80	19.2	2.6	18.9	13%	48.0	28.8	45.2	119.3	31.0	11.9
24	85	20.3	3.1	15.9	12%	52.3	32.0	40.3	126.6	32.9	12.6
26	90	21.4	3.7	13.6	11%	56.7	35.3	36.3	133.8	34.7	13.2

Douglas-fir (70% Cratio, Cactos model)*

DBH	TotalHt	Cwidth	Tree BA	TPA at BA 50	CC at BA 50	Bole Spacing at 50 BA	Dist between crowns at 50 BA	TPA needed for 30% CC	BA with 30% CC	Bole Spacing at 30% CC	Dist between crowns at 30% CC
8	45	15.5	0.3	143.2	62%	17.4	1.9	69.1	24.1	25.1	9.6
10	50	17.3	0.5	91.7	49%	21.8	4.5	55.6	30.3	28.0	10.7
12	55	18.9	0.8	63.7	41%	26.2	7.2	46.5	36.5	30.6	11.7
14	60	20.4	1.1	46.8	35%	30.5	10.1	40.0	42.8	33.0	12.6
16	65	21.8	1.4	35.8	31%	34.9	13.1	35.1	49.1	35.2	13.4
18	70	23.0	1.8	28.3	27%	39.2	16.2	31.3	55.3	37.3	14.2
20	75	24.3	2.2	22.9	24%	43.6	19.3	28.3	61.7	39.3	15.0
22	80	25.4	2.6	18.9	22%	48.0	22.5	25.7	68.0	41.1	15.7
24	85	26.5	3.1	15.9	20%	52.3	25.8	23.7	74.3	42.9	16.4
26	90	27.6	3.7	13.6	19%	56.7	29.1	21.9	80.7	44.6	17.0

*Note: Cryptos does not have a crown width model for redwood, so FORSEE fills it in with the Douglas-fir model

By A. Eggleton and C. Eggleton, 6/12/19