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PREDICTING TREE D. B. H. FROM STUMP MEASUREMENTS IN THE SOUTHEAST

Abstract. --When a tree has been cut and only the stump remains as an indicator of tree size, a prediction equation can be used to estimate d.b. b. from stump measurements. An improved equation model was developed from stump measurement data collected by Forest Survey special study crews in North Carolina, Virginia, and South Carolina. Independent samples from Virginia and South Carolina were used to test equations derived from only the North Carolina sample, and a pooled sample of over 14,000 trees was used to compute equation coefficients for 53 southeastern tree species.

Diameter at breast height, traditionally used to calculate tree volume, to describe stand structure, and to select inventory sample trees, is one of the most important tree measurements in forestry. Therefore, when a tree has been cut and only the stump remains as an indicator of tree size, it becomes necessary to use stump measurements to predict d. b. h. Stump measurements are frequently used to estimate timber-cut volumes in trespass cases, to determine timber removals during initial forest inventories, and to measure timber product output from stumpwood in utilization studies.

Special stump measurements were taken in conjunction with a standing-tree volume study during the most recent Forest Surveys of North Carolina, Virginia, and South Carolina. All live trees 5 .O inches d. b. h. and larger were measured on every tenth inventory sample location in the Piedmont and Mountains of North Carolina and throughout the State of Virginia, and on every twentieth sample location in South Carolina. On each of these trees, d. o. b. was measured with a diameter tape at ground level, and at 6-inch intervals up to 2 feet above normal ground level. On slopes, the uphill base of the tree was considered ground level. Diameters were recorded to the last tenth-inch; and measurement points falling on deformities, limbs, or abnormal swells were excluded from the sample. D. b. h. was also measured with a diameter tape and recorded to the last tenth-inch. Normally swell-butted species, such as cypress and tupelo gum, were measured from an assumed ground line, defined as 3.0 feet below the point of bottleneck; and d. b. h. was measured 1.5 feet above the point of bottleneck.

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A preliminary plotting of diameters at various heights above the ground indicated a nonlinear relationship between stump diameters and d. b. h., with stump taper varying at different rates by tree size for some species. The following equation was written to relate stump measurements to d. b. h. by species:

$$d.b.h. = D\left[b_0 + b_1 (\text{Log } H) + b_2 (\text{Log } H)^2 + b_3 (DH)\right]$$

where: d. b. h. = diameter at 4.5 feet above the ground

D = stump diameter at point of measurement

H = stump height to point of measurement in feet

The equation model was conditioned to the assumption that the ratio of stump diameter and d. b. h. would be equal to 1 .OOO when stump height reached 4.5 feet. A l.O-foot constant was added to stump height to eliminate any possibility of attempting to take the logarithm of stump height at 0.0 feet. The adjusted conditioned regression equation was then written in the following form:

$$d.b.h. = D\{bO + b_1\left[\text{Log}(H + 1.0) - (\text{Log } 5.5)\right]_I + b2\left[\text{Log}(H + 1.0) - (\text{Log } 5.5)\right]^2 + b_3\left[D(H - 4.5)\right]\}$$

Ten species that had a uniform sample distribution across all three states were selected to test the equation model for prediction precision and adequacy of fit. Each species was separated by state, and equation coefficients were computed from only the North Carolina sample. The remaining samples from Virginia and South Carolina were treated as two separate independent samples, and estimates of d.b. h. were made from the North Carolina equations. Aggregate deviation, average deviation, and a coefficient of determination were computed for five separate stump heights and for all heights pooled (table 1).

For general application, the entire sample of 14,318 trees was pooled; and equation coefficients were computed for 53 species from a minimum of 48 stump measurements for swamp white oak and a maximum of 9,748 for loblolly pine. Coefficients of determination computed for the pooled samples ranged from 80.40 to 96.57, with only one softwood and ten hardwood species falling below 90.00 (table 2). Tables are being prepared for the 53 species which will solve this equation and permit the user to read d. b. h. directly when stump diameter and height are known. These may be obtained on request from the Southeastern Forest Experiment Station.

Table 1.--Aggregate deviations, average deviations, and coefficients of determination for selected species measured in North Carolina and tested with independent samples from Virginia and South Carolina

Species	Stump height	North Carolina samples	Tests of equations using independent samples							
			Virginia				South Carolina			
			Independent samples	Aggregate deviation	Average deviation	Coefficient of determination	Independent samples	Aggregate deviation	Average deviation	Coefficient of determination
	Feet	Number	Number	- - Percent - -			Number	- - Percent - -		
Loblolly pine	0.0	386	551	2.61	7.12	93.75	1,239	-1.22	6.78	94.25
	0.5	391	584	0.78	5.39	96.61	783	-1.76	5.14	96.40
	1.0	393	611	1.09	4.17	97.92	1,237	-1.39	4.91	96.39
	1.5	393	598	0.96	3.51	98.51	796	-0.52	3.28	98.60
	2.0	393	595	0.74	2.91	98.95	798	-0.45	2.77	99.05
	All hgts.	1,956	2,939	1.21	4.55	97.28	4,853	-1.12	4.85	96.54
Shortleaf pine	0.0	432	312	2.21	5.37	95.57	349	1.77	6.52	93.39
	0.5	432	314	0.23	4.02	97.43	120	-0.09	4.00	96.77
	1.0	434	339	-0.05	3.74	97.89	349	1.49	4.70	96.75
	1.5	434	324	-0.09	3.27	98.40	123	1.05	3.12	98.26
	2.0	434	330	-0.28	2.82	98.77	128	0.92	2.74	98.65
	All hgts.	2,166	1,619	0.38	3.82	97.64	1,069	1.29	4.81	95.82
Virginia pine	0.0	193	517	-0.52	6.00	92.70	35	1.81	4.89	96.85
	0.5	193	527	-0.02	4.18	96.79	25	0.41	4.50	97.66
	1.0	193	552	0.36	3.58	97.51	35	0.85	3.73	98.45
	1.5	192	530	0.12	3.11	98.11	24	0.09	3.39	98.90
	2.0	196	527	-0.29	2.78	98.44	27	-0.61	2.84	99.05
	All hgts.	967	2,653	-0.06	3.92	96.74	146	0.58	3.90	98.16
White oak	0.0	246	318	-0.38	10.12	92.80	112	9.78	12.64	82.78
	0.5	256	408	-2.14	8.06	94.70	61	2.51	6.80	94.72
	1.0	285	626	0.18	6.81	96.01	112	3.37	6.79	94.26
	1.5	271	504	0.09	4.98	97.97	64	1.87	5.14	96.72
	2.0	274	505	0.27	4.04	98.66	70	1.41	4.09	98.01
	All hgts.	1,332	2,361	-0.31	6.52	96.22	419	4.43	7.69	92.30
Yellow-poplar	0.0	225	269	2.00	8.35	93.46	91	3.10	12.05	82.67
	0.5	249	316	1.32	6.17	96.08	23	-2.33	6.60	95.16
	1.0	273	436	1.77	5.06	97.20	91	-1.39	8.23	91.62
	1.5	265	374	1.65	3.55	98.63	31	-1.16	4.41	97.64
	2.0	266	374	1.05	2.75	99.15	31	-1.61	3.92	97.81
	All hgts.	1,278	1,769	1.55	4.97	97.07	267	0.15	8.70	89.91
Red maple	0.0	153	99	-0.38	9.76	91.14	106	-1.30	9.89	90.14
	0.5	176	155	-1.16	7.13	93.22	32	-6.90	8.98	88.11
	1.0	227	365	0.56	6.33	95.90	106	-4.43	8.31	93.90
	1.5	205	221	-0.22	4.01	98.32	44	-5.31	6.39	93.36
	2.0	209	222	-0.55	3.61	98.51	49	-3.91	4.92	95.96
	All hgts.	970	1,062	-0.15	5.76	96.08	337	-3.67	8.20	92.36
Hickory	0.0	194	180	1.49	9.91	88.52	83	2.61	8.90	92.90
	0.5	211	214	-0.42	8.02	93.30	48	-1.02	6.51	95.84
	1.0	218	290	0.66	6.11	96.35	83	2.23	7.15	94.80
	1.5	212	242	0.61	4.68	97.74	54	0.33	4.32	98.23
	2.0	215	246	0.29	3.98	98.37	54	0.02	3.66	98.65
	All hgts.	1,050	1,172	0.51	6.33	95.31	322	1.21	6.52	95.76
Sweetgum	0.0	158	177	-2.06	8.21	92.13	382	-1.92	7.88	92.84
	0.5	164	216	-1.73	5.66	95.82	152	-4.25	6.68	93.80
	1.0	179	295	-0.90	4.45	97.72	382	-3.69	5.97	94.84
	1.5	175	249	-0.51	3.52	98.64	190	-2.24	3.95	97.74
	2.0	176	252	-0.57	2.77	99.11	190	-1.71	3.29	98.40
	All hgts.	852	1,189	-1.06	4.67	97.15	1,296	-2.74	6.02	95.08
Southern red oak	0.0	58	72	2.90	9.49	92.28	38	7.19	10.60	91.17
	0.5	58	96	-0.86	6.95	94.97	23	4.38	7.09	95.24
	1.0	66	130	1.25	4.85	97.33	38	3.31	6.10	96.67
	1.5	66	113	0.71	3.40	98.73	27	2.48	4.61	97.73
	2.0	66	114	0.42	3.17	98.97	27	1.57	3.80	98.46
	All hgts.	314	525	0.80	5.23	96.68	153	3.98	6.69	95.41
Ash	0.0	39	54	8.51	10.81	91.58	41	0.57	10.80	88.27
	0.5	41	70	2.99	7.81	95.17	20	-3.25	8.69	95.10
	1.0	51	93	0.67	6.24	96.32	41	-4.69	9.17	89.03
	1.5	48	81	0.49	4.95	97.68	26	-2.10	5.49	97.72
	2.0	49	80	0.36	3.99	98.35	26	-1.75	4.90	98.30
	All hgts.	228	378	2.04	6.37	96.07	154	-2.21	8.27	93.02

Table 2.--Equation coefficients, number of samples, and coefficients of determination for tree species in the Southeast

Species	Equation coefficients				Total sample		Coefficient of determination (r^2)
	b_0	b_1	b_2	b_3	Trees	Stump measurements	
					Number		
Loblolly pine	1.00000000	0.33150314	-0.13882140	0.00010372	2,243	9,748	95.88
Shortleaf pine	1.00000000	0.35290056	-0.05043818	-0.00007974	1,122	4,854	95.27
Virginia pine	1.00000000	0.31940873	-0.10179887	0.00004742	786	3,766	95.57
Longleaf pine	1.00000000	0.18016315	-0.28520660	0.00002939	477	1,540	93.70
Slash pine	1.00000000	0.31643895	-0.14506084	0.00061588	233	893	96.57
Pond pine	1.00000000	0.24649267	-0.18288626	0.00037238	182	820	94.77
White pine	1.00000000	0.29010506	-0.17448472	-0.00026634	121	573	93.93
Pitch pine	1.00000000	0.25764710	-0.14942888	0.00004134	117	540	94.80
Table-Mountain pine	1.00000000	0.46305483	-0.02686677	-0.00151769	17	83	92.95
Redcedar	1.00000000	0.10265284	-0.38843842	0.00145796	170	587	92.80
Baldcypress	1.00000000	0.85911893	0.38282746	0.00056180	27	65	95.90
Pondcypress	1.00000000	0.73207659	0.33896952	0.00150526	23	85	93.25
Hemlock	1.00000000	0.31433149	-0.04197841	0.00005014	97	395	88.04
Red maple	1.00000000	0.22824892	-0.23961963	0.00055440	704	2,369	89.86
Sugar maple	1.00000000	0.10937417	-0.35778852	0.00054574	62	242	88.15
Buckeye	1.00000000	0.18321541	-0.22825676	-0.00027923	26	50	82.35
Birch (except yellow)	1.00000000	0.41145644	-0.06317975	-0.00017614	173	628	90.90
Yellow birch	1.00000000	0.26127804	-0.04649809	0.00127564	27	89	80.40
Hickory	1.00000000	0.34931036	-0.14637565	0.00019429	594	2,544	92.81
Hackberry	1.00000000	0.24284538	-0.13803191	0.00062145	27	101	90.61
Dogwood	1.00000000	0.06151792	-0.19558775	0.00347451	45	175	89.49
Persimmon	1.00000000	0.40059245	-0.16110410	-0.00133960	32	149	93.61
Beech	1.00000000	0.21718177	-0.34877765	0.00043017	203	710	92.03
Ash	1.00000000	0.22695885	-0.21811418	0.00070449	185	760	90.05
Holly	1.00000000	0.09056083	-0.43432372	-0.00038296	46	173	86.66
Black walnut	1.00000000	0.13477157	-0.23031269	0.00052946	85	301	89.02
Sweetgum	1.00000000	0.24365854	-0.16720758	0.00083024	858	3,337	94.57
Yellow-poplar	1.00000000	0.18226822	-0.25121994	0.00044866	806	3,314	91.43
Mulberry	1.00000000	0.36487529	-0.11002135	-0.00099534	17	63	91.23
Water tupelo	1.00000000	1.17143763	0.62007348	-0.00057143	74	152	95.14
Upland blackgum	1.00000000	0.33929033	-0.07138280	0.00023595	157	676	92.05
Lowland blackgum	1.00000000	0.51879684	0.13419057	0.00130208	293	912	92.36
Sycamore	1.00000000	0.42877796	0.02654161	0.00032001	115	432	93.67
Cottonwood	1.00000000	0.20717511	-0.14268977	0.00003127	15	60	92.45
Black cherry	1.00000000	0.01596653	-0.39517284	0.00069856	50	182	85.15
White oak	1.00000000	0.52078283	-0.06551398	-0.00001348	1,027	4,112	94.87
Swamp white oak	1.00000000	0.60830668	0.11117230	0.00006539	12	48	96.17
Scarlet oak	1.00000000	0.32904682	-0.22413832	0.00057593	438	1,891	93.47
Southern red oak	1.00000000	0.52472287	-0.06674082	-0.00027248	234	992	95.89
Cherrybark oak	1.00000000	0.48419049	0.08821150	0.00062965	47	162	95.29
Laurel oak	1.00000000	0.46336496	-0.02465862	0.00041241	37	120	95.65
Swamp chestnut oak	1.00000000	0.37278710	-0.08754865	0.00058873	22	82	93.62
Chinkapin oak	1.00000000	0.22129965	-0.21641764	0.00040923	21	77	90.47
Water oak	1.00000000	0.40473979	-0.14296394	-0.00000277	111	445	95.41
Willow oak	1.00000000	0.51265613	-0.05031719	-0.00009055	140	518	95.36
Chestnut oak	1.00000000	0.26951995	-0.21508193	0.00003391	660	2,811	90.94
Northern red oak	1.00000000	0.35981095	-0.13575169	0.00033791	368	1,554	92.44
Post oak	1.00000000	0.49462800	-0.10925176	-0.00023411	192	862	95.31
Black oak	1.00000000	0.33322093	-0.17790514	0.00058950	302	1,322	93.72
Scrub oaks	1.00000000	0.23438496	-0.36373254	-0.00046291	84	306	93.14
Black locust	1.00000000	0.15059711	-0.14178539	0.00098193	201	751	84.97
Basswood	1.00000000	0.09460087	-0.26243395	0.00054435	48	178	87.44
Elm	1.00000000	0.28530990	-0.18180841	0.00031110	165	637	90.52

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APPENDIX TABLES
for
U.S.D.A. Forest Service
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by
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EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR LOBLOLLY PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.6	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	3.7	3.9	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.4
6.0	4.1	4.3	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9
6.5	4.4	4.7	4.9	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	4.7	5.0	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.1	5.4	5.6	5.8	6.0	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4
8.0	5.4	5.7	6.0	6.2	6.4	6.6	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9
8.5	5.7	6.1	6.4	6.6	6.8	7.0	7.2	7.3	7.4	7.6	7.7	7.8	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4
9.0	6.1	6.4	6.8	7.0	7.2	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9
9.5	6.4	6.8	7.1	7.4	7.6	7.8	8.0	8.2	8.3	8.4	8.6	8.7	8.8	8.9	8.9	9.0	9.1	9.2	9.2	9.3	9.4
10.0	6.7	7.2	7.5	7.8	8.0	8.2	8.4	8.6	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.1	7.5	7.9	8.2	8.4	8.6	8.8	9.0	9.2	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.3	10.3
11.0	7.4	7.9	8.2	8.6	8.8	9.1	9.3	9.4	9.6	9.8	9.9	10.0	10.1	10.3	10.4	10.4	10.5	10.6	10.7	10.8	10.8
11.5	7.7	8.2	8.6	8.9	9.2	9.5	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.3
12.0	8.1	8.6	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.7	11.8
12.5	8.4	8.9	9.4	9.7	10.0	10.3	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.8	11.9	12.0	12.1	12.2	12.2	12.3
13.0	8.7	9.3	9.7	10.1	10.4	10.7	10.9	11.2	11.4	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8
13.5	9.1	9.6	10.1	10.5	10.8	11.1	11.4	11.6	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.4	10.0	10.5	10.9	11.2	11.5	11.8	12.0	12.2	12.4	12.6	12.8	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.7	13.8
14.5	9.7	10.3	10.8	11.3	11.6	11.9	12.2	12.4	12.7	12.9	13.0	13.2	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.2	14.3
15.0	10.1	10.7	11.2	11.6	12.0	12.3	12.6	12.9	13.1	13.3	13.5	13.7	13.8	14.0	14.1	14.2	14.4	14.5	14.6	14.7	14.8
15.5	10.4	11.1	11.6	12.0	12.4	12.7	13.0	13.3	13.5	13.7	13.9	14.1	14.3	14.4	14.6	14.7	14.8	15.0	15.1	15.2	15.3
16.0	10.7	11.4	12.0	12.4	12.8	13.1	13.4	13.7	14.0	14.2	14.4	14.6	14.7	14.9	15.0	15.2	15.3	15.4	15.6	15.7	15.8
16.5	11.1	11.8	12.3	12.8	13.2	13.6	13.9	14.1	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.1	16.3
17.0	11.4	12.1	12.7	13.2	13.6	14.0	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.5	16.6	16.7
17.5	11.7	12.5	13.1	13.6	14.0	14.4	14.7	15.0	15.3	15.5	15.7	15.9	16.1	16.3	16.5	16.6	16.7	16.9	17.0	17.1	17.2
18.0	12.1	12.8	13.4	14.0	14.4	14.8	15.1	15.4	15.7	15.9	16.2	16.4	16.6	16.8	16.9	17.1	17.2	17.4	17.5	17.6	17.7
18.5	12.4	13.2	13.8	14.3	14.8	15.2	15.5	15.8	16.1	16.4	16.6	16.8	17.0	17.2	17.4	17.5	17.7	17.8	18.0	18.1	18.2
19.0	12.7	13.5	14.2	14.7	15.2	15.6	16.0	16.3	16.6	16.8	17.1	17.3	17.5	17.7	17.9	18.0	18.2	18.3	18.5	18.6	18.7
19.5	13.1	13.9	14.5	15.1	15.6	16.0	16.4	16.7	17.0	17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.7	18.8	18.9	19.1	19.2
20.0	13.4	14.2	14.9	15.5	16.0	16.4	16.8	17.1	17.4	17.7	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.1	19.3	19.4	19.6
20.5	13.7	14.6	15.3	15.9	16.4	16.8	17.2	17.5	17.9	18.1	18.4	18.6	18.9	19.1	19.3	19.4	19.6	19.8	19.9	20.1	20.2
21.0	14.0	14.9	15.6	16.3	16.8	17.2	17.6	18.0	18.3	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.7
21.5	14.4	15.3	16.0	16.6	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.5	19.8	20.0	20.2	20.4	20.6	20.7	20.9	21.0	21.2
22.0	14.7	15.6	16.4	17.0	17.6	18.0	18.4	18.8	19.2	19.5	19.7	20.0	20.2	20.5	20.7	20.9	21.0	21.2	21.4	21.5	21.7
22.5	15.0	16.0	16.7	17.4	18.0	18.4	18.9	19.2	19.6	19.9	20.2	20.5	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.0	22.2
23.0	15.4	16.3	17.1	17.8	18.3	18.8	19.3	19.7	20.0	20.3	20.6	20.9	21.2	21.4	21.6	21.8	22.0	22.2	22.3	22.5	22.7
23.5	15.7	16.7	17.5	18.2	18.7	19.2	19.7	20.1	20.5	20.8	21.1	21.4	21.6	21.8	22.1	22.3	22.5	22.7	22.8	23.0	23.1
24.0	16.0	17.0	17.9	18.5	19.1	19.7	20.1	20.5	20.9	21.2	21.5	21.8	22.1	22.3	22.5	22.7	22.9	23.1	23.3	23.5	23.6
24.5	16.3	17.4	18.2	18.9	19.5	20.1	20.5	20.9	21.3	21.7	22.0	22.3	22.5	22.8	23.0	23.2	23.4	23.6	23.8	24.0	24.1
25.0	16.7	17.7	18.6	19.3	19.9	20.5	20.9	21.4	21.7	22.1	22.4	22.7	23.0	23.2	23.5	23.7	23.9	24.1	24.3	24.5	24.6
25.5	17.0	18.1	19.0	19.7	20.3	20.9	21.4	21.8	22.2	22.5	22.9	23.2	23.4	23.7	23.9	24.2	24.4	24.6	24.8	24.9	25.1
26.0	17.3	18.4	19.3	20.1	20.7	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.9	24.2	24.4	24.6	24.8	25.1	25.2	25.4	25.6
26.5	17.7	18.8	19.7	20.4	21.1	21.7	22.2	22.6	23.0	23.4	23.8	24.1	24.4	24.6	24.9	25.1	25.3	25.5	25.7	25.9	26.1
27.0	18.0	19.1	20.0	20.8	21.5	22.1	22.6	23.1	23.5	23.8	24.2	24.5	24.8	25.1	25.3	25.6	25.8	26.0	26.2	26.4	26.6
27.5	18.3	19.5	20.4	21.2	21.9	22.5	23.0	23.5	23.9	24.3	24.6	25.0	25.3	25.5	25.8	26.0	26.3	26.5	26.7	26.9	27.1
28.0	18.6	19.8	20.8	21.6	22.3	22.9	23.4	23.9	24.3	24.7	25.1	25.4	25.7	26.0	26.3	26.5	26.8	27.0	27.2	27.4	27.6
28.5	19.0	20.2	21.1	22.0	22.7	23.3	23.8	24.3	24.8	25.2	25.5	25.9	26.2	26.5	26.7	27.0	27.2	27.5	27.7	27.9	28.1
29.0	19.3	20.5	21.5	22.3	23.1	23.7	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.2	27.5	27.7	27.9	28.2	28.4	28.6
29.5	19.6	20.9	21.9	22.7	23.5	24.1	24.7	25.2	25.6	26.0	26.4	26.8	27.1	27.4	27.7	27.9	28.2	28.4	28.6	28.8	29.0
30.0	19.9	21.2	22.2	23.1	23.9	24.5	25.1	25.6	26.1	26.5	26.9	27.2	27.5	27.9	28.1	28.4	28.7	28.9	29.1	29.3	29.5
30.5	20.3	21.5	22.6	23.5	24.2	24.9	25.5	26.0	26.5	26.9	27.3	27.7	28.0	28.3	28.6	28.9	29.1	29.4	29.6	29.8	30.0
31.0	20.6	21.9	23.0	23.9	24.6	25.3	25.9	26.4	26.9	27.3	27.7	28.1	28.5	28.8	29.1	29.3	29.6	29.9	30.1	30.3	30.5
31.5	20.9	22.2	23.3	24.2	25.0	25.7	26.3	26.9	27.3	27.8	28.2	28.6	28.9	29.2	29.5	29.8	30.1	30.3	30.6	30.8	31.0
32.0	21.2	22.6	23.7	24.6	25.4	26.1	26.7	27.3	27.8	28.2	28.6	29.0	29.4	29.7	30.0	30.3	30.6	30.8	31.1	31.3	31.5
32.5	21.6	22.9	24.1	25.0	25.8	26.5	27.1	27.7	28.2	28.7	29.1	29.5	29.8	30.2	30.5	30.8	31.0	31.3	31.5	31.8	32.0
33.0	21.9	23.3	24.4	25.4	26.2	26.9	27.5	28.1	28.6	29.1	29.5	29.9	30.3	30.6	30.9	31.2	31.5	31.8	32.0	32.3	32.5
33.5	22.2	23.6	24.8	25.8	26.6	27.3	28.0	28.5	29.1	29.5	30.0	30.4	30.7	31.1	31.4	31.7	32.0	32.3	32.5	32.7	33.0
34.0	22.5	24.0	25.1	26.1	27.0	27.7	28.4	29.0	29.5	30.0	30.4	30.8	31.2	31.5	31.9	32.2	32.5	32.7	33.0	33.2	33.5
34.5	22.9	24.3	25.5	26.5	27.4	28.1	28.8	29.4	29.9	30.4	30.8	31.3	31.6	32.0	32.3	32.6	32.9	33.2	33.5	33.7	34.0
35.0	23.2	24.7	25.9	26.9	27.8	28.5	29.2	29.8	30.3	30.8	31.3	31.7	32.1	32.5	32.8	33.1	33.4	33.7	34.0	34.2	34.4
35.5	23.5	25.0	26.2	27.3	28.1	28.9	29.6	30.2	30.8	31.3	31.7	32.2	32.6	32.9	33.3	33.6	33.9	34.2	34.4	34.7	34.9
36.0	23.8	25.3	26.6	27.6	28.5	29.3	30.0	30.6	31.2	31.7	32.2	32.6	33.0	33.4	33.7	34.1	34.4	34.6	34.9	35.2	35.4
36.5	24.1	25.7	27.0	28.0	28.9	29.7	30.4	31.1	31.6	32.1	32.6	33.1	33.5	33.8	34.2	34.5	34.8	35.1	35.4	35.7	35.9
37.0	24.5	26.0	27.3	28.4	29.3	30.1	30.8	31.5	32.1	32.6	33.1	33.5	33.9	34.3	34.7	35.0	35.3	35.6	35.9	36.2	36.4
37.5	24.8	26.4	27.7	28.8	29.7	30.5	31.2	31.9	32.5	33.0	33.5	34.0	34.4	34.8	35.1	35.5	35.8	36.1	36.4	36.6	36.9
38.0	25.1	26.7	28.0	29.1	30.1	30.9	31.7	32.3	32.9	33.4	33.9	34.4	34.8	35.2	35.6	35.9	36.3	36.6	36.9	37.1	37.4
38.5	25.4	27.1	28.4	29.5	30.5	31.3	32.1	32.7	33.3	33.9	34.4	34.8	35.3	35.7	36.1	36.4	36.7	37.0	37.3	37.6	37.9
39.0	25.8	27.4	28.8	29.9	30.9	31.7	32.5	33.2	33.8	34.3	34.8	35.3	35.7	36.1	36.5	36.9	37.2	37.5	37.8	38.1	38.4
39.5	26.1	27.7	29.1	30.3	31.3	32.1	32.9	33.6	34.2	34.8	35.3	35.7	36.2	36.6	37.0	37.3	37.7	38.0	38.3	38.6	38.9
40.0	26.4	28.1	29.5	30.6	31.6	32.5	33.3	34.0	34.6	35.2	35.7	36.2	36.6	37.1	37.4	37.8	38.2	38.5	38.8	39.1	39.4
40.5	26.7	28.4	29.8	31.0	32.0	32.9	33.7	34.4	35.0	35.6	36.2	36.6	37.1	37.5	37.9	38.3	38.6	39.0	39.3	39.6	39.8
41.0	27.0	28.8	30.2	31.4	32.4	33.3	34.1	34.8	35.5	36.1	36.6	37.1	37.5	38.0	38.4	38.7	39.1	39.4	39.8	40.1	40.3
41.5	27.4	29.1	30.6	31.8	32.8	33.7	34.5	35.2	35.9	36.5	37.0	37.5	38.0	38.4	38.8	39.2	39.6	39.9	40.2	40.5	40.8
42.0	27.7	29.5	30.9	32.1	33.2	34.1	34.9	35.7	36.3	36.9	37.5	38.0	38.5	38.9	39.3	39.7	40.1	40.4	40.7	41.0	41.3
42.5	28.0	29.8	31.3	32.5	33.6	34.5	35.3	36.1	36.7	37.4	37.9	38.4	38.9	39.4	39.8	40.2	40.5	40.9	41.2	41.5	41.8
43.0	28.3	30.1	31.6	32.9	34.0	34.9	35.7	36.5	37.2	37.8	38.4	38.9	39.4	39.8	40.2	40.6	41.0	41.4	41.7	42.0	42.3
43.5	28.6	30.5	32.0	33.3	34.4	35.3	36.2	36.9	37.6	38.2	38.8	39.3	39.8	40.3	40.7	41.1	41.5	41.8	42.2	42.5	42.8
44.0	28.9	30.8	32.4	33.6	34.7	35.7	36.6	37.3	38.0	38.7	39.2	39.8	40.3	40.7	41.2	41.6	41.9	42.3	42.7	43.0	43.3
44.5	29.3	31.2	32.7	34.0	35.1	36.1	37.0	37.7	38.5	39.1	39.7	40.2	40.7	41.2	41.6	42.0	42.4	42.8	43.1	43.5	43.8
45.0	29.6	31.5	33.1	34.4	35.5	36.5	37.4	38.2	38.9	39.5	40.1	40.7	41.2	41.6	42.1	42.5	42.9	43.3	43.6	43.9	44.3
45.5	29.9	31.8	33.4	34.8	35.9	36.9	37.8	38.6	39.3	40.0	40.6	41.1	41.6	42.1	42.6	43.0	43.4	43.7	44.1	44.4	44.8
46.0	30.2	32.2	33.8	35.1	36.3	37.3	38.2	39.0	39.7	40.4	41.0	41.6	42.1	42.6	43.0	43.4	43.8	44.2	44.6	44.9	45.2
46.5	30.5	32.5	34.1	35.5	36.7	37.7	38.6	39.4	40.2	40.8	41.4	42.0	42.5	43.0	43.5	43.9	44.3	44.7	45.1	45.4	45.7
47.0	30.9	32.9	34.5	35.9	37.1	38.1	39.0	39.8	40.6	41.3	41.9	42.4	43.0	43.5	43.9	44.4	44.8	45.2	45.5	45.9	46.2
47.5	31.2	33.2	34.9	36.2	37.4	38.5	39.4	40.2	41.0	41.7	42.3	42.9	43.4	43.9	44.4	44.8	45.3	45.7	46.0	46.4	46.7
48.0	31.5	33.5	35.2	36.6	37.8	38.9	39.8	40.7	41.4	42.1	42.8	43.3	43.9	44.4	44.9	45.3	45.7	46.1	46.5	46.9	47.2
48.5	31.8	33.9	35.6	37.0	38.2	39.3	40.2	41.1	41.8	42.5	43.2	43.8	44.3	44.8	45.3	45.8	46.2	46.6	47.0	47.4	47.7
49.0	32.1	34.2	35.9	37.4	38.6	39.7	40.6	41.5	42.3	43.0	43.6	44.2	44.8	45.3	45.8	46.2	46.7	47.1	47.5	47.8	48.2
49.5	32.4	34.6	36.3	37.7	39.0	40.1	41.0	41.9	42.7	43.4	44.1	44.7	45.2	45.8	46.3	46.7	47.2	47.6	48.0	48.3	48.7
50.0	32.8	34.9	36.6	38.1	39.4	40.5	41.4	42.3	43.1	43.8	44.5	45.1	45.7	46.2	46.7	47.2	47.6	48.0	48.4	48.8	49.2

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SHORTLEAF PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	3.9	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4
6.0	4.3	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9
6.5	4.6	4.9	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	5.0	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.4	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4
8.0	5.7	6.0	6.2	6.4	6.6	6.7	6.8	6.9	7.1	7.2	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9
8.5	6.1	6.4	6.6	6.8	7.0	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.4	6.7	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9
9.5	6.8	7.1	7.4	7.6	7.8	8.0	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.4
10.0	7.1	7.5	7.8	8.0	8.2	8.4	8.5	8.7	8.8	8.9	9.1	9.2	9.3	9.3	9.4	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.5	7.9	8.1	8.4	8.6	8.8	9.0	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.3	10.4
11.0	7.9	8.2	8.5	8.8	9.0	9.2	9.4	9.6	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8
11.5	8.2	8.6	8.9	9.2	9.4	9.6	9.8	10.0	10.1	10.3	10.4	10.5	10.6	10.8	10.9	10.9	11.0	11.1	11.2	11.3	11.3
12.0	8.6	9.0	9.3	9.6	9.8	10.1	10.3	10.4	10.6	10.7	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.8
12.5	8.9	9.4	9.7	10.0	10.3	10.5	10.7	10.9	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3
13.0	9.3	9.7	10.1	10.4	10.7	10.9	11.1	11.3	11.5	11.6	11.8	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8
13.5	9.7	10.1	10.5	10.8	11.1	11.3	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.7	12.8	13.0	13.0	13.1	13.2	13.3
14.0	10.0	10.5	10.9	11.2	11.5	11.7	12.0	12.2	12.4	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8
14.5	10.4	10.9	11.3	11.6	11.9	12.2	12.4	12.6	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	10.7	11.2	11.7	12.0	12.3	12.6	12.8	13.1	13.2	13.4	13.6	13.8	13.9	14.0	14.2	14.3	14.4	14.5	14.6	14.7	14.8
15.5	11.1	11.6	12.1	12.4	12.7	13.0	13.3	13.5	13.7	13.9	14.1	14.2	14.4	14.5	14.6	14.8	14.9	15.0	15.1	15.2	15.3
16.0	11.5	12.0	12.4	12.8	13.1	13.4	13.7	13.9	14.1	14.3	14.5	14.7	14.8	15.0	15.1	15.2	15.4	15.5	15.6	15.7	15.8
16.5	11.8	12.4	12.8	13.2	13.6	13.9	14.1	14.4	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.8	16.0	16.1	16.2	16.3
17.0	12.2	12.8	13.2	13.6	14.0	14.3	14.6	14.8	15.0	15.2	15.4	15.6	15.8	15.9	16.1	16.2	16.3	16.4	16.6	16.7	16.8
17.5	12.6	13.1	13.6	14.0	14.4	14.7	15.0	15.2	15.5	15.7	15.9	16.1	16.2	16.4	16.5	16.7	16.8	16.9	17.0	17.1	17.3
18.0	12.9	13.5	14.0	14.4	14.8	15.1	15.4	15.7	15.9	16.1	16.3	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.5	17.6	17.7
18.5	13.3	13.9	14.4	14.8	15.2	15.5	15.8	16.1	16.4	16.6	16.8	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.0	18.1	18.2
19.0	13.6	14.3	14.8	15.2	15.6	16.0	16.3	16.6	16.8	17.0	17.2	17.4	17.6	17.8	17.9	18.1	18.2	18.4	18.5	18.6	18.7
19.5	14.0	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.2	17.5	17.7	17.9	18.1	18.3	18.4	18.6	18.7	18.9	19.0	19.1	19.2
20.0	14.4	15.0	15.6	16.0	16.5	16.8	17.1	17.4	17.7	17.9	18.2	18.4	18.5	18.7	18.9	19.1	19.2	19.3	19.5	19.6	19.7
20.5	14.7	15.4	16.0	16.5	16.9	17.2	17.6	17.9	18.1	18.4	18.6	18.8	19.0	19.2	19.4	19.5	19.7	19.8	20.0	20.1	20.2
21.0	15.1	15.8	16.4	16.9	17.3	17.7	18.0	18.3	18.6	18.8	19.1	19.3	19.5	19.7	19.8	20.0	20.2	20.3	20.5	20.6	20.7
21.5	15.5	16.2	16.8	17.3	17.7	18.1	18.4	18.7	19.0	19.3	19.5	19.7	19.9	20.1	20.3	20.5	20.6	20.8	20.9	21.1	21.2
22.0	15.8	16.5	17.2	17.7	18.1	18.5	18.9	19.2	19.5	19.7	20.0	20.2	20.4	20.6	20.8	21.0	21.1	21.3	21.4	21.6	21.7
22.5	16.2	16.9	17.5	18.1	18.5	18.9	19.3	19.6	19.9	20.2	20.4	20.7	20.9	21.1	21.3	21.4	21.6	21.8	21.9	22.1	22.2
23.0	16.5	17.3	17.9	18.5	18.9	19.4	19.7	20.1	20.4	20.6	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.2	22.4	22.5	22.7
23.5	16.9	17.7	18.3	18.9	19.4	19.8	20.2	20.5	20.8	21.1	21.3	21.6	21.8	22.0	22.2	22.4	22.6	22.7	22.9	23.0	23.2
24.0	17.3	18.1	18.7	19.3	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.3	22.5	22.7	22.9	23.1	23.2	23.4	23.5	23.7
24.5	17.6	18.4	19.1	19.7	20.2	20.6	21.0	21.4	21.7	22.0	22.3	22.5	22.7	23.0	23.2	23.4	23.5	23.7	23.9	24.0	24.2
25.0	18.0	18.8	19.5	20.1	20.6	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	23.4	23.6	23.8	24.0	24.2	24.4	24.5	24.7
25.5	18.4	19.2	19.9	20.5	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	23.9	24.1	24.3	24.5	24.7	24.8	25.0	25.2
26.0	18.7	19.6	20.3	20.9	21.4	21.9	22.3	22.7	23.0	23.3	23.6	23.9	24.1	24.4	24.6	24.8	25.0	25.2	25.3	25.5	25.6
26.5	19.1	20.0	20.7	21.3	21.9	22.3	22.8	23.1	23.5	23.8	24.1	24.4	24.6	24.8	25.1	25.3	25.5	25.6	25.8	26.0	26.1
27.0	19.5	20.4	21.1	21.7	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.1	25.3	25.5	25.7	25.9	26.1	26.3	26.5	26.6
27.5	19.8	20.7	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.5	25.8	26.0	26.2	26.4	26.6	26.8	27.0	27.1
28.0	20.2	21.1	21.9	22.5	23.1	23.6	24.1	24.5	24.8	25.2	25.5	25.7	26.0	26.3	26.5	26.7	26.9	27.1	27.3	27.5	27.6
28.5	20.6	21.5	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.6	25.9	26.2	26.5	26.7	27.0	27.2	27.4	27.6	27.8	27.9	28.1
29.0	20.9	21.9	22.7	23.4	23.9	24.5	24.9	25.3	25.7	26.1	26.4	26.7	26.9	27.2	27.4	27.7	27.9	28.1	28.3	28.4	28.6
29.5	21.3	22.3	23.1	23.8	24.4	24.9	25.4	25.8	26.2	26.5	26.8	27.1	27.4	27.7	27.9	28.1	28.4	28.6	28.7	28.9	29.1
30.0	21.7	22.6	23.5	24.2	24.8	25.3	25.8	26.2	26.6	27.0	27.3	27.6	27.9	28.1	28.4	28.6	28.8	29.0	29.2	29.4	29.6
30.5	22.0	23.0	23.9	24.6	25.2	25.7	26.2	26.7	27.0	27.4	27.7	28.1	28.3	28.6	28.9	29.1	29.3	29.5	29.7	29.9	30.1
31.0	22.4	23.4	24.3	25.0	25.6	26.2	26.7	27.1	27.5	27.9	28.2	28.5	28.8	29.1	29.3	29.6	29.8	30.0	30.2	30.4	30.6
31.5	22.8	23.8	24.7	25.4	26.0	26.6	27.1	27.5	27.9	28.3	28.7	29.0	29.3	29.6	29.8	30.1	30.3	30.5	30.7	30.9	31.1
32.0	23.1	24.2	25.1	25.8	26.4	27.0	27.5	28.0	28.4	28.8	29.1	29.4	29.7	30.0	30.3	30.5	30.8	31.0	31.2	31.4	31.6
32.5	23.5	24.6	25.5	26.2	26.9	27.4	28.0	28.4	28.8	29.2	29.6	29.9	30.2	30.5	30.8	31.0	31.2	31.5	31.7	31.9	32.1
33.0	23.9	24.9	25.8	26.6	27.3	27.9	28.4	28.9	29.3	29.7	30.0	30.4	30.7	31.0	31.2	31.5	31.7	32.0	32.2	32.4	32.6
33.5	24.2	25.3	26.2	27.0	27.7	28.3	28.8	29.3	29.7	30.1	30.5	30.8	31.1	31.4	31.7	32.0	32.2	32.4	32.7	32.9	33.1
34.0	24.6	25.7	26.6	27.4	28.1	28.7	29.3	29.7	30.2	30.6	31.0	31.3	31.6	31.9	32.2	32.4	32.7	32.9	33.1	33.3	33.5
34.5	25.0	26.1	27.0	27.8	28.5	29.1	29.7	30.2	30.6	31.0	31.4	31.8	32.1	32.4	32.7	32.9	33.2	33.4	33.6	33.8	34.0
35.0	25.3	26.5	27.4	28.2	29.0	29.6	30.1	30.6	31.1	31.5	31.9	32.2	32.5	32.9	33.1	33.4	33.7	33.9	34.1	34.3	34.5
35.5	25.7	26.9	27.8	28.7	29.4	30.0	30.6	31.1	31.5	31.9	32.3	32.7	33.0	33.3	33.6	33.9	34.1	34.4	34.6	34.8	35.0
36.0	26.1	27.3	28.2	29.1	29.8	30.4	31.0	31.5	32.0	32.4	32.8	33.1	33.5	33.8	34.1	34.4	34.6	34.9	35.1	35.3	35.5
36.5	26.4	27.6	28.6	29.5	30.2	30.9	31.4	32.0	32.4	32.9	33.2	33.6	34.0	34.3	34.6	34.8	35.1	35.4	35.6	35.8	36.0
37.0	26.8	28.0	29.0	29.9	30.6	31.3	31.9	32.4	32.9	33.3	33.7	34.1	34.4	34.7	35.0	35.3	35.6	35.8	36.1	36.3	36.5
37.5	27.2	28.4	29.4	30.3	31.1	31.7	32.3	32.8	33.3	33.8	34.2	34.5	34.9	35.2	35.5	35.8	36.1	36.3	36.6	36.8	37.0
38.0	27.5	28.8	29.8	30.7	31.5	32.1	32.7	33.3	33.8	34.2	34.6	35.0	35.4	35.7	36.0	36.3	36.6	36.8	37.1	37.3	37.5
38.5	27.9	29.2	30.2	31.1	31.9	32.6	33.2	33.7	34.2	34.7	35.1	35.5	35.8	36.2	36.5	36.8	37.0	37.3	37.5	37.8	38.0
39.0	28.3	29.6	30.6	31.5	32.3	33.0	33.6	34.2	34.7	35.1	35.5	35.9	36.3	36.6	36.9	37.2	37.5	37.8	38.0	38.3	38.5
39.5	28.6	29.9	31.0	31.9	32.7	33.4	34.0	34.6	35.1	35.6	36.0	36.4	36.8	37.1	37.4	37.7	38.0	38.3	38.5	38.8	39.0
40.0	29.0	30.3	31.4	32.3	33.1	33.9	34.5	35.0	35.6	36.0	36.5	36.9	37.2	37.6	37.9	38.2	38.5	38.8	39.0	39.2	39.5
40.5	29.4	30.7	31.8	32.8	33.6	34.3	34.9	35.5	36.0	36.5	36.9	37.3	37.7	38.0	38.4	38.7	39.0	39.2	39.5	39.7	40.0
41.0	29.8	31.1	32.2	33.2	34.0	34.7	35.4	35.9	36.5	36.9	37.4	37.8	38.2	38.5	38.9	39.2	39.5	39.7	40.0	40.2	40.5
41.5	30.1	31.5	32.6	33.6	34.4	35.1	35.8	36.4	36.9	37.4	37.8	38.3	38.6	39.0	39.3	39.6	39.9	40.2	40.5	40.7	41.0
42.0	30.5	31.9	33.0	34.0	34.8	35.6	36.2	36.8	37.4	37.9	38.3	38.7	39.1	39.5	39.8	40.1	40.4	40.7	41.0	41.2	41.5
42.5	30.9	32.3	33.4	34.4	35.3	36.0	36.7	37.3	37.8	38.3	38.8	39.2	39.6	39.9	40.3	40.6	40.9	41.2	41.5	41.7	41.9
43.0	31.2	32.7	33.8	34.8	35.7	36.4	37.1	37.7	38.3	38.8	39.2	39.6	40.0	40.4	40.8	41.1	41.4	41.7	41.9	42.2	42.4
43.5	31.6	33.0	34.2	35.2	36.1	36.9	37.5	38.2	38.7	39.2	39.7	40.1	40.5	40.9	41.2	41.6	41.9	42.2	42.4	42.7	42.9
44.0	32.0	33.4	34.6	35.6	36.5	37.3	38.0	38.6	39.2	39.7	40.1	40.6	41.0	41.4	41.7	42.0	42.4	42.6	42.9	43.2	43.4
44.5	32.4	33.8	35.0	36.0	36.9	37.7	38.4	39.0	39.6	40.1	40.6	41.0	41.5	41.8	42.2	42.5	42.8	43.1	43.4	43.7	43.9
45.0	32.7	34.2	35.4	36.5	37.4	38.2	38.9	39.5	40.1	40.6	41.1	41.5	41.9	42.3	42.7	43.0	43.3	43.6	43.9	44.2	44.4
45.5	33.1	34.6	35.8	36.9	37.8	38.6	39.3	39.9	40.5	41.0	41.5	42.0	42.4	42.8	43.1	43.5	43.8	44.1	44.4	44.7	44.9
46.0	33.5	35.0	36.2	37.3	38.2	39.0	39.7	40.4	41.0	41.5	42.0	42.4	42.9	43.3	43.6	44.0	44.3	44.6	44.9	45.2	45.4
46.5	33.8	35.4	36.6	37.7	38.6	39.4	40.2	40.8	41.4	42.0	42.4	42.9	43.3	43.7	44.1	44.4	44.8	45.1	45.4	45.6	45.9
47.0	34.2	35.8	37.0	38.1	39.0	39.9	40.6	41.3	41.9	42.4	42.9	43.4	43.8	44.2	44.6	44.9	45.3	45.6	45.9	46.1	46.4
47.5	34.6	36.1	37.4	38.5	39.5	40.3	41.0	41.7	42.3	42.9	43.4	43.8	44.3	44.7	45.1	45.4	45.7	46.1	46.3	46.6	46.9
48.0	35.0	36.5	37.8	38.9	39.9	40.7	41.5	42.2	42.8	43.3	43.8	44.3	44.7	45.1	45.5	45.9	46.2	46.5	46.8	47.1	47.4
48.5	35.3	36.9	38.2	39.3	40.3	41.2	41.9	42.6	43.2	43.8	44.3	44.8	45.2	45.6	46.0	46.4	46.7	47.0	47.3	47.6	47.9
49.0	35.7	37.3	38.6	39.8	40.7	41.6	42.4	43.0	43.7	44.2	44.8	45.2	45.7	46.1	46.5	46.8	47.2	47.5	47.8	48.1	48.4
49.5	36.1	37.7	39.0	40.2	41.2	42.0	42.8	43.5	44.1	44.7	45.2	45.7	46.2	46.6	47.0	47.3	47.7	48.0	48.3	48.6	48.9
50.0	36.5	38.1	39.4	40.6	41.6	42.5	43.2	43.9	44.6	45.1	45.7	46.2	46.6	47.0	47.4	47.8	48.2	48.5	48.8	49.1	49.4

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR VIRGINIA PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	3.9	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.4
6.0	4.2	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9
6.5	4.6	4.8	5.0	5.2	5.3	5.5	5.6	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	4.9	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.3	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.6	5.9	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9
8.5	6.0	6.3	6.6	6.8	7.0	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.4	6.7	7.0	7.2	7.4	7.5	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9
9.5	6.7	7.1	7.3	7.6	7.8	8.0	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3	9.4
10.0	7.1	7.4	7.7	8.0	8.2	8.4	8.6	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.4	7.8	8.1	8.4	8.6	8.8	9.0	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3	10.4
11.0	7.8	8.2	8.5	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8
11.5	8.1	8.5	8.9	9.2	9.4	9.6	9.8	10.0	10.2	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.0	11.1	11.2	11.3	11.3
12.0	8.5	8.9	9.3	9.6	9.8	10.1	10.3	10.4	10.6	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.8
12.5	8.8	9.3	9.6	10.0	10.2	10.5	10.7	10.9	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3
13.0	9.2	9.6	10.0	10.4	10.6	10.9	11.1	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8
13.5	9.5	10.0	10.4	10.8	11.1	11.3	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.8	12.9	13.0	13.1	13.1	13.2	13.3
14.0	9.9	10.4	10.8	11.2	11.5	11.7	12.0	12.2	12.4	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8
14.5	10.2	10.7	11.2	11.6	11.9	12.1	12.4	12.6	12.8	13.0	13.2	13.3	13.4	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	10.6	11.1	11.6	12.0	12.3	12.6	12.8	13.0	13.2	13.4	13.6	13.8	13.9	14.0	14.2	14.3	14.4	14.5	14.6	14.7	14.8
15.5	10.9	11.5	12.0	12.3	12.7	13.0	13.2	13.5	13.7	13.9	14.1	14.2	14.4	14.5	14.6	14.8	14.9	15.0	15.1	15.2	15.3
16.0	11.3	11.9	12.3	12.7	13.1	13.4	13.7	13.9	14.1	14.3	14.5	14.7	14.8	15.0	15.1	15.2	15.4	15.5	15.6	15.7	15.8
16.5	11.6	12.2	12.7	13.1	13.5	13.8	14.1	14.3	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.8	16.0	16.1	16.2	16.3
17.0	12.0	12.6	13.1	13.5	13.9	14.2	14.5	14.8	15.0	15.2	15.4	15.6	15.8	15.9	16.1	16.2	16.3	16.4	16.6	16.7	16.8
17.5	12.3	13.0	13.5	13.9	14.3	14.6	14.9	15.2	15.5	15.7	15.9	16.1	16.2	16.4	16.5	16.7	16.8	16.9	17.0	17.2	17.3
18.0	12.7	13.3	13.9	14.3	14.7	15.1	15.4	15.6	15.9	16.1	16.3	16.5	16.7	16.9	17.0	17.1	17.3	17.4	17.5	17.6	17.8
18.5	13.0	13.7	14.3	14.7	15.1	15.5	15.8	16.1	16.3	16.6	16.8	17.0	17.1	17.3	17.5	17.6	17.8	17.9	18.0	18.1	18.2
19.0	13.4	14.1	14.6	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.2	17.4	17.6	17.8	17.9	18.1	18.2	18.4	18.5	18.6	18.7
19.5	13.7	14.4	15.0	15.5	15.9	16.3	16.6	16.9	17.2	17.5	17.7	17.9	18.1	18.3	18.4	18.6	18.7	18.9	19.0	19.1	19.2
20.0	14.1	14.8	15.4	15.9	16.4	16.7	17.1	17.4	17.7	17.9	18.1	18.3	18.5	18.7	18.9	19.0	19.2	19.3	19.5	19.6	19.7
20.5	14.4	15.2	15.8	16.3	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.2	19.4	19.5	19.7	19.8	20.0	20.1	20.2
21.0	14.8	15.5	16.2	16.7	17.2	17.6	17.9	18.2	18.5	18.8	19.0	19.3	19.5	19.7	19.8	20.0	20.2	20.3	20.4	20.6	20.7
21.5	15.1	15.9	16.6	17.1	17.6	18.0	18.3	18.7	19.0	19.2	19.5	19.7	19.9	20.1	20.3	20.5	20.6	20.8	20.9	21.1	21.2
22.0	15.5	16.3	16.9	17.5	18.0	18.4	18.8	19.1	19.4	19.7	19.9	20.2	20.4	20.6	20.8	21.0	21.1	21.3	21.4	21.6	21.7
22.5	15.8	16.6	17.3	17.9	18.4	18.8	19.2	19.5	19.8	20.1	20.4	20.6	20.8	21.1	21.2	21.4	21.6	21.8	21.9	22.1	22.2
23.0	16.2	17.0	17.7	18.3	18.8	19.2	19.6	20.0	20.3	20.6	20.8	21.1	21.3	21.5	21.7	21.9	22.1	22.2	22.4	22.5	22.7
23.5	16.5	17.4	18.1	18.7	19.2	19.6	20.0	20.4	20.7	21.0	21.3	21.5	21.8	22.0	22.2	22.4	22.6	22.7	22.9	23.0	23.2
24.0	16.9	17.7	18.5	19.1	19.6	20.1	20.5	20.8	21.2	21.5	21.7	22.0	22.2	22.5	22.7	22.9	23.0	23.2	23.4	23.5	23.7
24.5	17.2	18.1	18.9	19.5	20.0	20.5	20.9	21.3	21.6	21.9	22.2	22.5	22.7	22.9	23.1	23.3	23.5	23.7	23.9	24.0	24.2
25.0	17.6	18.5	19.2	19.9	20.4	20.9	21.3	21.7	22.0	22.4	22.6	22.9	23.2	23.4	23.6	23.8	24.0	24.2	24.3	24.5	24.7
25.5	17.9	18.8	19.6	20.3	20.8	21.3	21.7	22.1	22.5	22.8	23.1	23.4	23.6	23.9	24.1	24.3	24.5	24.7	24.8	25.0	25.1
26.0	18.3	19.2	20.0	20.7	21.2	21.7	22.2	22.6	22.9	23.3	23.6	23.8	24.1	24.3	24.5	24.8	24.9	25.1	25.3	25.5	25.6
26.5	18.6	19.6	20.4	21.1	21.6	22.1	22.6	23.0	23.4	23.7	24.0	24.3	24.5	24.8	25.0	25.2	25.4	25.6	25.8	26.0	26.1
27.0	19.0	19.9	20.8	21.5	22.0	22.6	23.0	23.4	23.8	24.1	24.5	24.7	25.0	25.3	25.5	25.7	25.9	26.1	26.3	26.5	26.6
27.5	19.3	20.3	21.1	21.8	22.4	23.0	23.4	23.9	24.2	24.6	24.9	25.2	25.5	25.7	26.0	26.2	26.4	26.6	26.8	26.9	27.1
28.0	19.6	20.7	21.5	22.2	22.9	23.4	23.9	24.3	24.7	25.0	25.4	25.7	25.9	26.2	26.4	26.7	26.9	27.1	27.3	27.4	27.6
28.5	20.0	21.0	21.9	22.6	23.3	23.8	24.3	24.7	25.1	25.5	25.8	26.1	26.4	26.7	26.9	27.1	27.3	27.5	27.7	27.9	28.1
29.0	20.3	21.4	22.3	23.0	23.7	24.2	24.7	25.2	25.6	25.9	26.3	26.6	26.9	27.1	27.4	27.6	27.8	28.0	28.2	28.4	28.6
29.5	20.7	21.8	22.7	23.4	24.1	24.6	25.1	25.6	26.0	26.4	26.7	27.0	27.3	27.6	27.8	28.1	28.3	28.5	28.7	28.9	29.1
30.0	21.0	22.1	23.1	23.8	24.5	25.1	25.6	26.0	26.4	26.8	27.2	27.5	27.8	28.1	28.3	28.6	28.8	29.0	29.2	29.4	29.6
30.5	21.4	22.5	23.4	24.2	24.9	25.5	26.0	26.5	26.9	27.3	27.6	27.9	28.2	28.5	28.8	29.0	29.3	29.5	29.7	29.9	30.1
31.0	21.7	22.9	23.8	24.6	25.3	25.9	26.4	26.9	27.3	27.7	28.1	28.4	28.7	29.0	29.3	29.5	29.7	30.0	30.2	30.4	30.6
31.5	22.1	23.2	24.2	25.0	25.7	26.3	26.8	27.3	27.8	28.1	28.5	28.8	29.2	29.5	29.7	30.0	30.2	30.4	30.7	30.9	31.1
32.0	22.4	23.6	24.6	25.4	26.1	26.7	27.3	27.7	28.2	28.6	29.0	29.3	29.6	29.9	30.2	30.5	30.7	30.9	31.1	31.4	31.5
32.5	22.8	24.0	25.0	25.8	26.5	27.1	27.7	28.2	28.6	29.0	29.4	29.8	30.1	30.4	30.7	30.9	31.2	31.4	31.6	31.8	32.0
33.0	23.1	24.3	25.3	26.2	26.9	27.5	28.1	28.6	29.1	29.5	29.9	30.2	30.5	30.8	31.1	31.4	31.7	31.9	32.1	32.3	32.5
33.5	23.5	24.7	25.7	26.6	27.3	28.0	28.5	29.0	29.5	29.9	30.3	30.7	31.0	31.3	31.6	31.9	32.1	32.4	32.6	32.8	33.0
34.0	23.8	25.1	26.1	27.0	27.7	28.4	28.9	29.5	29.9	30.4	30.8	31.1	31.5	31.8	32.1	32.3	32.6	32.9	33.1	33.3	33.5
34.5	24.2	25.4	26.5	27.4	28.1	28.8	29.4	29.9	30.4	30.8	31.2	31.6	31.9	32.2	32.5	32.8	33.1	33.3	33.6	33.8	34.0
35.0	24.5	25.8	26.9	27.8	28.5	29.2	29.8	30.3	30.8	31.3	31.7	32.0	32.4	32.7	33.0	33.3	33.6	33.8	34.1	34.3	34.5
35.5	24.9	26.2	27.2	28.1	28.9	29.6	30.2	30.8	31.3	31.7	32.1	32.5	32.8	33.2	33.5	33.8	34.0	34.3	34.5	34.8	35.0
36.0	25.2	26.5	27.6	28.5	29.3	30.0	30.6	31.2	31.7	32.1	32.6	33.0	33.3	33.6	34.0	34.2	34.5	34.8	35.0	35.3	35.5
36.5	25.5	26.9	28.0	28.9	29.7	30.4	31.1	31.6	32.1	32.6	33.0	33.4	33.8	34.1	34.4	34.7	35.0	35.3	35.5	35.8	36.0
37.0	25.9	27.3	28.4	29.3	30.1	30.9	31.5	32.1	32.6	33.0	33.5	33.9	34.2	34.6	34.9	35.2	35.5	35.7	36.0	36.2	36.5
37.5	26.2	27.6	28.8	29.7	30.5	31.3	31.9	32.5	33.0	33.5	33.9	34.3	34.7	35.0	35.4	35.7	36.0	36.2	36.5	36.7	37.0
38.0	26.6	28.0	29.1	30.1	30.9	31.7	32.3	32.9	33.4	33.9	34.4	34.8	35.2	35.5	35.8	36.1	36.4	36.7	37.0	37.2	37.5
38.5	26.9	28.4	29.5	30.5	31.4	32.1	32.8	33.3	33.9	34.4	34.8	35.2	35.6	36.0	36.3	36.6	36.9	37.2	37.5	37.7	37.9
39.0	27.3	28.7	29.9	30.9	31.8	32.5	33.2	33.8	34.3	34.8	35.3	35.7	36.1	36.4	36.8	37.1	37.4	37.7	37.9	38.2	38.4
39.5	27.6	29.1	30.3	31.3	32.2	32.9	33.6	34.2	34.8	35.3	35.7	36.1	36.5	36.9	37.2	37.6	37.9	38.2	38.4	38.7	38.9
40.0	28.0	29.4	30.7	31.7	32.6	33.3	34.0	34.6	35.2	35.7	36.2	36.6	37.0	37.4	37.7	38.0	38.3	38.6	38.9	39.2	39.4
40.5	28.3	29.8	31.0	32.1	33.0	33.7	34.4	35.1	35.6	36.1	36.6	37.1	37.5	37.8	38.2	38.5	38.8	39.1	39.4	39.7	39.9
41.0	28.7	30.2	31.4	32.5	33.4	34.2	34.9	35.5	36.1	36.6	37.1	37.5	37.9	38.3	38.7	39.0	39.3	39.6	39.9	40.2	40.4
41.5	29.0	30.5	31.8	32.9	33.8	34.6	35.3	35.9	36.5	37.0	37.5	38.0	38.4	38.8	39.1	39.5	39.8	40.1	40.4	40.6	40.9
42.0	29.3	30.9	32.2	33.3	34.2	35.0	35.7	36.4	36.9	37.5	38.0	38.4	38.8	39.2	39.6	39.9	40.3	40.6	40.9	41.1	41.4
42.5	29.7	31.3	32.6	33.6	34.6	35.4	36.1	36.8	37.4	37.9	38.4	38.9	39.3	39.7	40.1	40.4	40.7	41.0	41.3	41.6	41.9
43.0	30.0	31.6	32.9	34.0	35.0	35.8	36.6	37.2	37.8	38.4	38.9	39.3	39.8	40.2	40.5	40.9	41.2	41.5	41.8	42.1	42.4
43.5	30.4	32.0	33.3	34.4	35.4	36.2	37.0	37.6	38.2	38.8	39.3	39.8	40.2	40.6	41.0	41.4	41.7	42.0	42.3	42.6	42.9
44.0	30.7	32.4	33.7	34.8	35.8	36.6	37.4	38.1	38.7	39.2	39.8	40.2	40.7	41.1	41.5	41.8	42.2	42.5	42.8	43.1	43.4
44.5	31.1	32.7	34.1	35.2	36.2	37.1	37.8	38.5	39.1	39.7	40.2	40.7	41.1	41.6	41.9	42.3	42.7	43.0	43.3	43.6	43.9
45.0	31.4	33.1	34.4	35.6	36.6	37.5	38.2	38.9	39.6	40.1	40.7	41.1	41.6	42.0	42.4	42.8	43.1	43.5	43.8	44.1	44.3
45.5	31.8	33.4	34.8	36.0	37.0	37.9	38.7	39.4	40.0	40.6	41.1	41.6	42.1	42.5	42.9	43.3	43.6	43.9	44.3	44.6	44.8
46.0	32.1	33.8	35.2	36.4	37.4	38.3	39.1	39.8	40.4	41.0	41.6	42.1	42.5	42.9	43.3	43.7	44.1	44.4	44.7	45.0	45.3
46.5	32.4	34.2	35.6	36.8	37.8	38.7	39.5	40.2	40.9	41.5	42.0	42.5	43.0	43.4	43.8	44.2	44.6	44.9	45.2	45.5	45.8
47.0	32.8	34.5	36.0	37.2	38.2	39.1	39.9	40.6	41.3	41.9	42.5	43.0	43.4	43.9	44.3	44.7	45.0	45.4	45.7	46.0	46.3
47.5	33.1	34.9	36.3	37.6	38.6	39.5	40.3	41.1	41.7	42.3	42.9	43.4	43.9	44.3	44.8	45.1	45.5	45.9	46.2	46.5	46.8
48.0	33.5	35.3	36.7	37.9	39.0	39.9	40.8	41.5	42.2	42.8	43.4	43.9	44.4	44.8	45.2	45.6	46.0	46.3	46.7	47.0	47.3
48.5	33.8	35.6	37.1	38.3	39.4	40.4	41.2	41.9	42.6	43.2	43.8	44.3	44.8	45.3	45.7	46.1	46.5	46.8	47.2	47.5	47.8
49.0	34.2	36.0	37.5	38.7	39.8	40.8	41.6	42.4	43.0	43.7	44.2	44.8	45.3	45.7	46.2	46.6	47.0	47.3	47.7	48.0	48.3
49.5	34.5	36.3	37.8	39.1	40.2	41.2	42.0	42.8	43.5	44.1	44.7	45.2	45.7	46.2	46.6	47.0	47.4	47.8	48.1	48.5	48.8
50.0	34.9	36.7	38.2	39.5	40.6	41.6	42.4	43.2	43.9	44.6	45.1	45.7	46.2	46.7	47.1	47.5	47.9	48.3	48.6	49.0	49.3

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR LONGLEAF PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.8	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.0
5.5	3.9	4.2	4.4	4.5	4.6	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.5
6.0	4.3	4.5	4.7	4.9	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	6.0
6.5	4.6	4.9	5.1	5.3	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.4
7.0	5.0	5.3	5.5	5.7	5.9	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9	6.9
7.5	5.3	5.7	5.9	6.2	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.3	7.4	7.4	7.4
8.0	5.7	6.0	6.3	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.8	7.9	7.9	7.9
8.5	6.0	6.4	6.7	7.0	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4	8.4	8.4
9.0	6.4	6.8	7.1	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.9	8.9	8.9
9.5	6.7	7.2	7.5	7.8	8.0	8.2	8.4	8.5	8.6	8.8	8.9	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.3	9.4	9.4
10.0	7.1	7.5	7.9	8.2	8.4	8.6	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.7	9.8	9.8	9.9	9.9
10.5	7.4	7.9	8.3	8.6	8.9	9.1	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4	10.4
11.0	7.8	8.3	8.7	9.0	9.3	9.5	9.7	9.9	10.0	10.1	10.3	10.4	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9	10.9
11.5	8.2	8.7	9.1	9.4	9.7	9.9	10.1	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3	11.4	11.4
12.0	8.5	9.1	9.5	9.8	10.1	10.4	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.8	11.8	11.9	11.9
12.5	8.9	9.4	9.9	10.2	10.6	10.8	11.0	11.2	11.4	11.5	11.6	11.8	11.9	12.0	12.0	12.1	12.2	12.2	12.3	12.4	12.4
13.0	9.2	9.8	10.3	10.7	11.0	11.2	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8	12.8	12.9
13.5	9.6	10.2	10.7	11.1	11.4	11.7	11.9	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3	13.3	13.4
14.0	9.9	10.6	11.1	11.5	11.8	12.1	12.3	12.6	12.7	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.6	13.7	13.8	13.8	13.9
14.5	10.3	10.9	11.5	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.1	14.2	14.3	14.3	14.4
15.0	10.6	11.3	11.9	12.3	12.7	13.0	13.2	13.5	13.6	13.8	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.8	14.9
15.5	11.0	11.7	12.3	12.7	13.1	13.4	13.7	13.9	14.1	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.3	15.4
16.0	11.3	12.1	12.6	13.1	13.5	13.8	14.1	14.3	14.6	14.7	14.9	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.7	15.8	15.9
16.5	11.7	12.4	13.0	13.5	13.9	14.3	14.5	14.8	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.1	16.2	16.2	16.3	16.4
17.0	12.0	12.8	13.4	13.9	14.3	14.7	15.0	15.2	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.5	16.6	16.6	16.7	16.8	16.9
17.5	12.4	13.2	13.8	14.3	14.8	15.1	15.4	15.7	15.9	16.1	16.3	16.5	16.6	16.7	16.8	17.0	17.1	17.1	17.2	17.3	17.4
18.0	12.7	13.6	14.2	14.7	15.2	15.6	15.9	16.1	16.4	16.6	16.8	16.9	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9
18.5	13.1	13.9	14.6	15.2	15.6	16.0	16.3	16.6	16.8	17.0	17.2	17.4	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.3
19.0	13.4	14.3	15.0	15.6	16.0	16.4	16.7	17.0	17.3	17.5	17.7	17.9	18.0	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.8
19.5	13.8	14.7	15.4	16.0	16.4	16.8	17.2	17.5	17.7	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.0	19.1	19.2	19.3	19.3
20.0	14.2	15.1	15.8	16.4	16.9	17.3	17.6	17.9	18.2	18.4	18.6	18.8	19.0	19.1	19.3	19.4	19.5	19.6	19.7	19.8	19.8
20.5	14.5	15.4	16.2	16.8	17.3	17.7	18.1	18.4	18.6	18.9	19.1	19.3	19.4	19.6	19.7	19.9	20.0	20.1	20.2	20.3	20.3
21.0	14.9	15.8	16.6	17.2	17.7	18.1	18.5	18.8	19.1	19.3	19.6	19.7	19.9	20.1	20.2	20.3	20.5	20.6	20.7	20.7	20.8
21.5	15.2	16.2	17.0	17.6	18.1	18.6	18.9	19.3	19.6	19.8	20.0	20.2	20.4	20.6	20.7	20.8	20.9	21.1	21.2	21.2	21.3
22.0	15.6	16.6	17.4	18.0	18.5	19.0	19.4	19.7	20.0	20.3	20.5	20.7	20.9	21.0	21.2	21.3	21.4	21.5	21.6	21.7	21.8
22.5	15.9	17.0	17.8	18.4	19.0	19.4	19.8	20.2	20.5	20.7	21.0	21.2	21.3	21.5	21.7	21.8	21.9	22.0	22.1	22.2	22.3
23.0	16.3	17.3	18.2	18.8	19.4	19.9	20.3	20.6	20.9	21.2	21.4	21.6	21.8	22.0	22.1	22.3	22.4	22.5	22.6	22.7	22.8
23.5	16.6	17.7	18.6	19.2	19.8	20.3	20.7	21.1	21.4	21.6	21.9	22.1	22.3	22.5	22.6	22.8	22.9	23.0	23.1	23.2	23.3
24.0	17.0	18.1	18.9	19.6	20.2	20.7	21.1	21.5	21.8	22.1	22.3	22.6	22.8	22.9	23.1	23.2	23.4	23.5	23.6	23.7	23.8
24.5	17.3	18.5	19.3	20.1	20.6	21.2	21.6	21.9	22.3	22.6	22.8	23.0	23.2	23.4	23.6	23.7	23.9	24.0	24.1	24.2	24.3
25.0	17.7	18.8	19.7	20.5	21.1	21.6	22.0	22.4	22.7	23.0	23.3	23.5	23.7	23.9	24.1	24.2	24.4	24.5	24.6	24.7	24.8
25.5	18.0	19.2	20.1	20.9	21.5	22.0	22.5	22.8	23.2	23.5	23.7	24.0	24.2	24.4	24.5	24.7	24.8	25.0	25.1	25.2	25.3
26.0	18.4	19.6	20.5	21.3	21.9	22.4	22.9	23.3	23.6	23.9	24.2	24.4	24.7	24.8	25.0	25.2	25.3	25.5	25.6	25.7	25.8
26.5	18.7	20.0	20.9	21.7	22.3	22.9	23.3	23.7	24.1	24.4	24.7	24.9	25.1	25.3	25.5	25.7	25.8	25.9	26.1	26.2	26.3
27.0	19.1	20.3	21.3	22.1	22.7	23.3	23.8	24.2	24.5	24.9	25.1	25.4	25.6	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.8
27.5	19.4	20.7	21.7	22.5	23.2	23.7	24.2	24.6	25.0	25.3	25.6	25.8	26.1	26.3	26.5	26.6	26.8	26.9	27.0	27.2	27.3
28.0	19.8	21.1	22.1	22.9	23.6	24.2	24.7	25.1	25.4	25.8	26.1	26.3	26.5	26.8	26.9	27.1	27.3	27.4	27.5	27.7	27.8
28.5	20.1	21.4	22.5	23.3	24.0	24.6	25.1	25.5	25.9	26.2	26.5	26.8	27.0	27.2	27.4	27.6	27.8	27.9	28.0	28.2	28.3
29.0	20.5	21.8	22.9	23.7	24.4	25.0	25.5	26.0	26.4	26.7	27.0	27.3	27.5	27.7	27.9	28.1	28.2	28.4	28.5	28.6	28.8
29.5	20.8	22.2	23.3	24.1	24.8	25.5	26.0	26.4	26.8	27.1	27.5	27.7	28.0	28.2	28.4	28.6	28.7	28.9	29.0	29.1	29.3
30.0	21.2	22.6	23.7	24.5	25.3	25.9	26.4	26.9	27.3	27.6	27.9	28.2	28.4	28.7	28.9	29.0	29.2	29.4	29.5	29.6	29.7
30.5	21.5	22.9	24.1	24.9	25.7	26.3	26.8	27.3	27.7	28.1	28.4	28.7	28.9	29.1	29.3	29.5	29.7	29.9	30.0	30.1	30.2
31.0	21.9	23.3	24.4	25.4	26.1	26.7	27.3	27.8	28.2	28.5	28.8	29.1	29.4	29.6	29.8	30.0	30.2	30.3	30.5	30.6	30.7
31.5	22.2	23.7	24.8	25.8	26.5	27.2	27.7	28.2	28.6	29.0	29.3	29.6	29.9	30.1	30.3	30.5	30.7	30.8	31.0	31.1	31.2
32.0	22.6	24.1	25.2	26.2	26.9	27.6	28.2	28.6	29.1	29.4	29.8	30.1	30.3	30.6	30.8	31.0	31.2	31.3	31.5	31.6	31.7
32.5	22.9	24.4	25.6	26.6	27.4	28.0	28.6	29.1	29.5	29.9	30.2	30.5	30.8	31.0	31.3	31.5	31.6	31.8	32.0	32.1	32.2
33.0	23.3	24.8	26.0	27.0	27.8	28.5	29.0	29.5	30.0	30.4	30.7	31.0	31.3	31.5	31.7	31.9	32.1	32.3	32.5	32.6	32.7
33.5	23.6	25.2	26.4	27.4	28.2	28.9	29.5	30.0	30.4	30.8	31.2	31.5	31.8	32.0	32.2	32.4	32.6	32.8	32.9	33.1	33.2
34.0	24.0	25.6	26.8	27.8	28.6	29.3	29.9	30.4	30.9	31.3	31.6	31.9	32.2	32.5	32.7	32.9	33.1	33.3	33.4	33.6	33.7
34.5	24.3	25.9	27.2	28.2	29.0	29.7	30.4	30.9	31.3	31.7	32.1	32.4	32.7	33.0	33.2	33.4	33.6	33.8	33.9	34.1	34.2
35.0	24.7	26.3	27.6	28.6	29.5	30.2	30.8	31.3	31.8	32.2	32.6	32.9	33.2	33.4	33.7	33.9	34.1	34.3	34.4	34.6	34.7
35.5	25.0	26.7	28.0	29.0	29.9	30.6	31.2	31.8	32.2	32.7	33.0	33.4	33.6	33.9	34.1	34.4	34.6	34.7	34.9	35.1	35.2
36.0	25.4	27.1	28.4	29.4	30.3	31.0	31.7	32.2	32.7	33.1	33.5	33.8	34.1	34.4	34.6	34.8	35.1	35.2	35.4	35.6	35.7
36.5	25.7	27.4	28.8	29.8	30.7	31.5	32.1	32.7	33.1	33.6	33.9	34.3	34.6	34.9	35.1	35.3	35.5	35.7	35.9	36.0	36.2
37.0	26.1	27.8	29.1	30.2	31.1	31.9	32.5	33.1	33.6	34.0	34.4	34.8	35.1	35.3	35.6	35.8	36.0	36.2	36.4	36.5	36.7
37.5	26.4	28.2	29.5	30.6	31.6	32.3	33.0	33.6	34.0	34.5	34.9	35.2	35.5	35.8	36.1	36.3	36.5	36.7	36.9	37.0	37.2
38.0	26.8	28.6	29.9	31.0	32.0	32.8	33.4	34.0	34.5	34.9	35.3	35.7	36.0	36.3	36.5	36.8	37.0	37.2	37.4	37.5	37.7
38.5	27.1	28.9	30.3	31.5	32.4	33.2	33.9	34.4	35.0	35.4	35.8	36.2	36.5	36.8	37.0	37.3	37.5	37.7	37.9	38.0	38.2
39.0	27.5	29.3	30.7	31.9	32.8	33.6	34.3	34.9	35.4	35.9	36.3	36.6	37.0	37.2	37.5	37.7	38.0	38.2	38.3	38.5	38.7
39.5	27.8	29.7	31.1	32.3	33.2	34.0	34.7	35.3	35.9	36.3	36.7	37.1	37.4	37.7	38.0	38.2	38.5	38.7	38.8	39.0	39.2
40.0	28.2	30.0	31.5	32.7	33.6	34.5	35.2	35.8	36.3	36.8	37.2	37.6	37.9	38.2	38.5	38.7	38.9	39.1	39.3	39.5	39.7
40.5	28.5	30.4	31.9	33.1	34.1	34.9	35.6	36.2	36.8	37.2	37.7	38.0	38.4	38.7	38.9	39.2	39.4	39.6	39.8	40.0	40.2
41.0	28.9	30.8	32.3	33.5	34.5	35.3	36.0	36.7	37.2	37.7	38.1	38.5	38.8	39.2	39.4	39.7	39.9	40.1	40.3	40.5	40.6
41.5	29.2	31.2	32.7	33.9	34.9	35.8	36.5	37.1	37.7	38.2	38.6	39.0	39.3	39.6	39.9	40.2	40.4	40.6	40.8	41.0	41.1
42.0	29.6	31.5	33.1	34.3	35.3	36.2	36.9	37.6	38.1	38.6	39.0	39.4	39.8	40.1	40.4	40.6	40.9	41.1	41.3	41.5	41.6
42.5	29.9	31.9	33.5	34.7	35.7	36.6	37.4	38.0	38.6	39.1	39.5	39.9	40.3	40.6	40.9	41.1	41.4	41.6	41.8	42.0	42.1
43.0	30.3	32.3	33.8	35.1	36.2	37.0	37.8	38.5	39.0	39.5	40.0	40.4	40.7	41.1	41.3	41.6	41.9	42.1	42.3	42.5	42.6
43.5	30.6	32.7	34.2	35.5	36.6	37.5	38.2	38.9	39.5	40.0	40.4	40.8	41.2	41.5	41.8	42.1	42.3	42.6	42.8	43.0	43.1
44.0	31.0	33.0	34.6	35.9	37.0	37.9	38.7	39.3	39.9	40.4	40.9	41.3	41.7	42.0	42.3	42.6	42.8	43.1	43.3	43.4	43.6
44.5	31.3	33.4	35.0	36.3	37.4	38.3	39.1	39.8	40.4	40.9	41.4	41.8	42.1	42.5	42.8	43.1	43.3	43.5	43.7	43.9	44.1
45.0	31.7	33.8	35.4	36.7	37.8	38.8	39.5	40.2	40.8	41.4	41.8	42.2	42.6	43.0	43.3	43.5	43.8	44.0	44.2	44.4	44.6
45.5	32.0	34.1	35.8	37.1	38.2	39.2	40.0	40.7	41.3	41.8	42.3	42.7	43.1	43.4	43.7	44.0	44.3	44.5	44.7	44.9	45.1
46.0	32.4	34.5	36.2	37.5	38.7	39.6	40.4	41.1	41.7	42.3	42.8	43.2	43.6	43.9	44.2	44.5	44.8	45.0	45.2	45.4	45.6
46.5	32.7	34.9	36.6	37.9	39.1	40.0	40.9	41.6	42.2	42.7	43.2	43.6	44.0	44.4	44.7	45.0	45.3	45.5	45.7	45.9	46.1
47.0	33.1	35.3	37.0	38.4	39.5	40.5	41.3	42.0	42.6	43.2	43.7	44.1	44.5	44.9	45.2	45.5	45.7	46.0	46.2	46.4	46.6
47.5	33.4	35.6	37.4	38.8	39.9	40.9	41.7	42.5	43.1	43.6	44.1	44.6	45.0	45.3	45.7	46.0	46.2	46.5	46.7	46.9	47.1
48.0	33.8	36.0	37.7	39.2	40.3	41.3	42.2	42.9	43.5	44.1	44.6	45.1	45.5	45.8	46.1	46.4	46.7	47.0	47.2	47.4	47.6
48.5	34.1	36.4	38.1	39.6	40.8	41.7	42.6	43.3	44.0	44.6	45.1	45.5	45.9	46.3	46.6	46.9	47.2	47.4	47.7	47.9	48.1
49.0	34.5	36.8	38.5	40.0	41.2	42.2	43.0	43.8	44.4	45.0	45.5	46.0	46.4	46.8	47.1	47.4	47.7	47.9	48.2	48.4	48.6
49.5	34.8	37.1	38.9	40.4	41.6	42.6	43.5	44.2	44.9	45.5	46.0	46.5	46.9	47.2	47.6	47.9	48.2	48.4	48.7	48.9	49.1
50.0	35.2	37.5	39.3	40.8	42.0	43.0	43.9	44.7	45.3	45.9	46.5	46.9	47.3	47.7	48.1	48.4	48.7	48.9	49.1	49.4	49.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SLASH PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.9	4.9	4.9
5.5	3.7	3.9	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4
6.0	4.0	4.3	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.3	4.6	4.8	5.0	5.2	5.3	5.4	5.6	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	4.7	5.0	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9
7.5	5.0	5.3	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.4
8.0	5.3	5.6	5.9	6.2	6.4	6.5	6.7	6.8	6.9	7.1	7.2	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.8	7.8	7.9
8.5	5.6	6.0	6.3	6.5	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.4
9.0	6.0	6.3	6.6	6.9	7.1	7.3	7.5	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.7	8.8	8.9
9.5	6.3	6.7	7.0	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3
10.0	6.6	7.0	7.4	7.6	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9.0	9.1	9.3	9.3	9.4	9.5	9.6	9.7	9.8	9.8
10.5	6.9	7.3	7.7	8.0	8.3	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.3
11.0	7.2	7.7	8.1	8.4	8.7	8.9	9.1	9.3	9.5	9.6	9.8	9.9	10.0	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8
11.5	7.5	8.0	8.4	8.8	9.0	9.3	9.5	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3
12.0	7.8	8.3	8.8	9.1	9.4	9.7	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	8.1	8.7	9.1	9.5	9.8	10.1	10.3	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.7	11.8	11.9	12.0	12.1	12.2	12.3
13.0	8.5	9.0	9.5	9.8	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8	12.0	12.1	12.2	12.4	12.5	12.6	12.7	12.8
13.5	8.8	9.3	9.8	10.2	10.6	10.9	11.1	11.4	11.6	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.1	13.2	13.3
14.0	9.1	9.7	10.2	10.6	10.9	11.2	11.5	11.8	12.0	12.2	12.4	12.6	12.7	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.8
14.5	9.4	10.0	10.5	10.9	11.3	11.6	11.9	12.2	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.0	14.1	14.2
15.0	9.7	10.3	10.8	11.3	11.7	12.0	12.3	12.6	12.8	13.0	13.3	13.4	13.6	13.8	13.9	14.1	14.2	14.4	14.5	14.6	14.7
15.5	10.0	10.6	11.2	11.6	12.0	12.4	12.7	13.0	13.2	13.5	13.7	13.9	14.1	14.2	14.4	14.6	14.7	14.8	15.0	15.1	15.2
16.0	10.3	11.0	11.5	12.0	12.4	12.8	13.1	13.4	13.6	13.9	14.1	14.3	14.5	14.7	14.9	15.0	15.2	15.3	15.5	15.6	15.7
16.5	10.6	11.3	11.9	12.4	12.8	13.2	13.5	13.8	14.1	14.3	14.5	14.8	15.0	15.1	15.3	15.5	15.6	15.8	15.9	16.1	16.2
17.0	10.9	11.6	12.2	12.7	13.2	13.5	13.9	14.2	14.5	14.7	15.0	15.2	15.4	15.6	15.8	15.9	16.1	16.3	16.4	16.5	16.7
17.5	11.2	11.9	12.5	13.1	13.5	13.9	14.3	14.6	14.9	15.1	15.4	15.6	15.8	16.0	16.2	16.4	16.6	16.7	16.9	17.0	17.2
18.0	11.5	12.2	12.9	13.4	13.9	14.3	14.7	15.0	15.3	15.6	15.8	16.1	16.3	16.5	16.7	16.9	17.0	17.2	17.4	17.5	17.7
18.5	11.7	12.5	13.2	13.8	14.2	14.7	15.0	15.4	15.7	16.0	16.2	16.5	16.7	16.9	17.1	17.3	17.5	17.7	17.8	18.0	18.1
19.0	12.0	12.9	13.5	14.1	14.6	15.0	15.4	15.8	16.1	16.4	16.7	16.9	17.2	17.4	17.6	17.8	18.0	18.1	18.3	18.5	18.6
19.5	12.3	13.2	13.9	14.5	15.0	15.4	15.8	16.2	16.5	16.8	17.1	17.4	17.6	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.1
20.0	12.6	13.5	14.2	14.8	15.3	15.8	16.2	16.6	16.9	17.2	17.5	17.8	18.0	18.3	18.5	18.7	18.9	19.1	19.3	19.4	19.6
20.5	12.9	13.8	14.5	15.2	15.7	16.2	16.6	17.0	17.3	17.6	17.9	18.2	18.5	18.7	18.9	19.2	19.4	19.6	19.7	19.9	20.1
21.0	13.2	14.1	14.9	15.5	16.1	16.5	17.0	17.4	17.7	18.1	18.4	18.6	18.9	19.2	19.4	19.6	19.8	20.0	20.2	20.4	20.6
21.5	13.5	14.4	15.2	15.8	16.4	16.9	17.4	17.8	18.1	18.5	18.8	19.1	19.3	19.6	19.8	20.1	20.3	20.5	20.7	20.9	21.1
22.0	13.8	14.7	15.5	16.2	16.8	17.3	17.7	18.2	18.5	18.9	19.2	19.5	19.8	20.0	20.3	20.5	20.8	21.0	21.2	21.4	21.6
22.5	14.0	15.0	15.8	16.5	17.1	17.7	18.1	18.5	18.9	19.3	19.6	19.9	20.2	20.5	20.7	21.0	21.2	21.4	21.6	21.8	22.0
23.0	14.3	15.3	16.2	16.9	17.5	18.0	18.5	18.9	19.3	19.7	20.0	20.4	20.6	20.9	21.2	21.4	21.7	21.9	22.1	22.3	22.5
23.5	14.6	15.6	16.5	17.2	17.8	18.4	18.9	19.3	19.7	20.1	20.5	20.8	21.1	21.4	21.6	21.9	22.1	22.4	22.6	22.8	23.0
24.0	14.9	15.9	16.8	17.5	18.2	18.7	19.3	19.7	20.1	20.5	20.9	21.2	21.5	21.8	22.1	22.4	22.6	22.8	23.1	23.3	23.5
24.5	15.1	16.2	17.1	17.9	18.5	19.1	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.3	22.5	22.8	23.1	23.3	23.5	23.8	24.0
25.0	15.4	16.5	17.4	18.2	18.9	19.5	20.0	20.5	20.9	21.3	21.7	22.1	22.4	22.7	23.0	23.3	23.5	23.8	24.0	24.3	24.5
25.5	15.7	16.8	17.8	18.5	19.2	19.8	20.4	20.9	21.3	21.7	22.1	22.5	22.8	23.1	23.4	23.7	24.0	24.2	24.5	24.7	25.0
26.0	16.0	17.1	18.1	18.9	19.6	20.2	20.8	21.3	21.7	22.1	22.5	22.9	23.2	23.6	23.9	24.2	24.4	24.7	25.0	25.2	25.4
26.5	16.2	17.4	18.4	19.2	19.9	20.6	21.1	21.6	22.1	22.5	22.9	23.3	23.7	24.0	24.3	24.6	24.9	25.2	25.4	25.7	25.9
27.0	16.5	17.7	18.7	19.5	20.3	20.9	21.5	22.0	22.5	22.9	23.4	23.7	24.1	24.4	24.8	25.1	25.4	25.6	25.9	26.2	26.4
27.5	16.8	18.0	19.0	19.9	20.6	21.3	21.9	22.4	22.9	23.3	23.8	24.2	24.5	24.9	25.2	25.5	25.8	26.1	26.4	26.6	26.9
28.0	17.0	18.3	19.3	20.2	21.0	21.6	22.2	22.8	23.3	23.7	24.2	24.6	25.0	25.3	25.7	26.0	26.3	26.6	26.9	27.1	27.4
28.5	17.3	18.6	19.6	20.5	21.3	22.0	22.6	23.2	23.7	24.1	24.6	25.0	25.4	25.7	26.1	26.4	26.7	27.0	27.3	27.6	27.9
29.0	17.6	18.9	19.9	20.8	21.6	22.3	23.0	23.5	24.1	24.5	25.0	25.4	25.8	26.2	26.5	26.9	27.2	27.5	27.8	28.1	28.4
29.5	17.8	19.2	20.2	21.2	22.0	22.7	23.3	23.9	24.5	24.9	25.4	25.8	26.2	26.6	27.0	27.3	27.7	28.0	28.3	28.6	28.8
30.0	18.1	19.4	20.5	21.5	22.3	23.0	23.7	24.3	24.8	25.3	25.8	26.3	26.7	27.1	27.4	27.8	28.1	28.4	28.7	29.0	29.3
30.5	18.4	19.7	20.9	21.8	22.7	23.4	24.1	24.7	25.2	25.7	26.2	26.7	27.1	27.5	27.9	28.2	28.6	28.9	29.2	29.5	29.8
31.0	18.6	20.0	21.2	22.1	23.0	23.8	24.4	25.0	25.6	26.1	26.6	27.1	27.5	27.9	28.3	28.7	29.0	29.4	29.7	30.0	30.3
31.5	18.9	20.3	21.5	22.5	23.3	24.1	24.8	25.4	26.0	26.5	27.0	27.5	27.9	28.3	28.7	29.1	29.5	29.8	30.1	30.5	30.8
32.0	19.1	20.6	21.8	22.8	23.7	24.4	25.2	25.8	26.4	26.9	27.4	27.9	28.4	28.8	29.2	29.6	29.9	30.3	30.6	30.9	31.3
32.5	19.4	20.8	22.1	23.1	24.0	24.8	25.5	26.2	26.8	27.3	27.8	28.3	28.8	29.2	29.6	30.0	30.4	30.7	31.1	31.4	31.7
33.0	19.6	21.1	22.4	23.4	24.3	25.1	25.9	26.5	27.2	27.7	28.2	28.7	29.2	29.6	30.1	30.5	30.8	31.2	31.6	31.9	32.2
33.5	19.9	21.4	22.7	23.7	24.7	25.5	26.2	26.9	27.5	28.1	28.6	29.1	29.6	30.1	30.5	30.9	31.3	31.7	32.1	32.5	32.8	33.2
34.0	20.1	21.7	22.9	24.0	25.0	25.8	26.6	27.3	27.9	28.5	29.0	29.6	30.0	30.5	30.9	31.3	31.7	32.1	32.5	32.8	33.2
34.5	20.4	21.9	23.2	24.3	25.3	26.2	26.9	27.6	28.3	28.9	29.4	30.0	30.5	30.9	31.4	31.8	32.2	32.6	33.0	33.3	33.7
35.0	20.6	22.2	23.5	24.7	25.6	26.5	27.3	28.0	28.7	29.3	29.8	30.4	30.9	31.4	31.8	32.2	32.7	33.0	33.4	33.8	34.2
35.5	20.9	22.5	23.8	25.0	26.0	26.9	27.7	28.4	29.0	29.7	30.2	30.8	31.3	31.8	32.2	32.7	33.1	33.5	33.9	34.3	34.6
36.0	21.1	22.8	24.1	25.3	26.3	27.2	28.0	28.7	29.4	30.1	30.6	31.2	31.7	32.2	32.7	33.1	33.6	34.0	34.4	34.7	35.1
36.5	21.4	23.0	24.4	25.6	26.6	27.5	28.4	29.1	29.8	30.4	31.0	31.6	32.1	32.6	33.1	33.6	34.0	34.4	34.8	35.2	35.6
37.0	21.6	23.3	24.7	25.9	26.9	27.9	28.7	29.5	30.2	30.8	31.4	32.0	32.5	33.1	33.5	34.0	34.5	34.9	35.3	35.7	36.1
37.5	21.8	23.6	25.0	26.2	27.3	28.2	29.1	29.8	30.6	31.2	31.8	32.4	33.0	33.5	34.0	34.5	34.9	35.3	35.8	36.2	36.6
38.0	22.1	23.8	25.3	26.5	27.6	28.5	29.4	30.2	30.9	31.6	32.2	32.8	33.4	33.9	34.4	34.9	35.4	35.8	36.2	36.6	37.0
38.5	22.3	24.1	25.5	26.8	27.9	28.9	29.8	30.6	31.3	32.0	32.6	33.2	33.8	34.3	34.8	35.3	35.8	36.3	36.7	37.1	37.5
39.0	22.5	24.3	25.8	27.1	28.2	29.2	30.1	30.9	31.7	32.4	33.0	33.6	34.2	34.8	35.3	35.8	36.3	36.7	37.2	37.6	38.0
39.5	22.8	24.6	26.1	27.4	28.5	29.5	30.4	31.3	32.0	32.7	33.4	34.0	34.6	35.2	35.7	36.2	36.7	37.2	37.6	38.1	38.5
40.0	23.0	24.9	26.4	27.7	28.8	29.9	30.8	31.6	32.4	33.1	33.8	34.4	35.0	35.6	36.1	36.7	37.2	37.6	38.1	38.5	39.0
40.5	23.2	25.1	26.7	28.0	29.2	30.2	31.1	32.0	32.8	33.5	34.2	34.8	35.4	36.0	36.6	37.1	37.6	38.1	38.6	39.0	39.5
41.0	23.5	25.4	26.9	28.3	29.5	30.5	31.5	32.3	33.1	33.9	34.6	35.2	35.9	36.4	37.0	37.5	38.1	38.5	39.0	39.5	39.9
41.5	23.7	25.6	27.2	28.6	29.8	30.9	31.8	32.7	33.5	34.3	35.0	35.6	36.3	36.9	37.4	38.0	38.5	39.0	39.5	40.0	40.4
42.0	23.9	25.9	27.5	28.9	30.1	31.2	32.2	33.1	33.9	34.6	35.4	36.0	36.7	37.3	37.9	38.4	38.9	39.5	40.0	40.4	40.9
42.5	24.2	26.1	27.8	29.2	30.4	31.5	32.5	33.4	34.2	35.0	35.8	36.4	37.1	37.7	38.3	38.9	39.4	39.9	40.4	40.9	41.4
43.0	24.4	26.4	28.0	29.5	30.7	31.8	32.8	33.8	34.6	35.4	36.1	36.8	37.5	38.1	38.7	39.3	39.8	40.4	40.9	41.4	41.9
43.5	24.6	26.6	28.3	29.8	31.0	32.2	33.2	34.1	35.0	35.8	36.5	37.2	37.9	38.5	39.1	39.7	40.3	40.8	41.3	41.8	42.3
44.0	24.8	26.9	28.6	30.0	31.3	32.5	33.5	34.5	35.3	36.1	36.9	37.6	38.3	39.0	39.6	40.2	40.7	41.3	41.8	42.3	42.8
44.5	25.0	27.1	28.9	30.3	31.6	32.8	33.8	34.8	35.7	36.5	37.3	38.0	38.7	39.4	40.0	40.6	41.2	41.7	42.3	42.8	43.3
45.0	25.3	27.4	29.1	30.6	31.9	33.1	34.2	35.2	36.1	36.9	37.7	38.4	39.1	39.8	40.4	41.0	41.6	42.2	42.7	43.3	43.8
45.5	25.5	27.6	29.4	30.9	32.2	33.4	34.5	35.5	36.4	37.3	38.1	38.8	39.5	40.2	40.9	41.5	42.1	42.6	43.2	43.7	44.3
46.0	25.7	27.9	29.7	31.2	32.5	33.8	34.9	35.9	36.8	37.6	38.4	39.2	39.9	40.6	41.3	41.9	42.5	43.1	43.7	44.2	44.7
46.5	25.9	28.1	29.9	31.5	32.8	34.1	35.2	36.2	37.1	38.0	38.8	39.6	40.3	41.0	41.7	42.3	43.0	43.5	44.1	44.7	45.2
47.0	26.1	28.3	30.2	31.8	33.1	34.4	35.5	36.5	37.5	38.4	39.2	40.0	40.7	41.4	42.1	42.8	43.4	44.0	44.6	45.1	45.7
47.5	26.3	28.6	30.4	32.0	33.4	34.7	35.8	36.9	37.8	38.7	39.6	40.4	41.1	41.9	42.5	43.2	43.8	44.5	45.0	45.6	46.2
48.0	26.6	28.8	30.7	32.3	33.7	35.0	36.2	37.2	38.2	39.1	40.0	40.8	41.5	42.3	43.0	43.6	44.3	44.9	45.5	46.1	46.6
48.5	26.8	29.0	31.0	32.6	34.0	35.3	36.5	37.6	38.6	39.5	40.4	41.2	41.9	42.7	43.4	44.1	44.7	45.4	46.0	46.6	47.1
49.0	27.0	29.3	31.2	32.9	34.3	35.6	36.8	37.9	38.9	39.9	40.7	41.6	42.3	43.1	43.8	44.5	45.2	45.8	46.4	47.0	47.6
49.5	27.2	29.5	31.5	33.2	34.6	36.0	37.1	38.2	39.3	40.2	41.1	41.9	42.7	43.5	44.2	44.9	45.6	46.3	46.9	47.5	48.1
50.0	27.4	29.7	31.7	33.4	34.9	36.3	37.5	38.6	39.6	40.6	41.5	42.3	43.1	43.9	44.7	45.4	46.0	46.7	47.3	48.0	48.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR POND PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.7	3.9	4.0	4.2	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.9	4.1	4.3	4.4	4.6	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.2	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9
6.5	4.6	4.9	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	4.9	5.2	5.4	5.6	5.8	5.9	6.1	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9
7.5	5.3	5.6	5.8	6.0	6.2	6.3	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.6	6.0	6.2	6.4	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	6.0	6.3	6.6	6.8	7.0	7.2	7.3	7.5	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.4
9.0	6.3	6.7	7.0	7.2	7.4	7.6	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.9
9.5	6.7	7.0	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.4
10.0	7.0	7.4	7.7	8.0	8.2	8.4	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.9
10.5	7.3	7.8	8.1	8.4	8.6	8.8	9.0	9.2	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.3	10.3	10.4
11.0	7.7	8.1	8.5	8.8	9.0	9.3	9.5	9.6	9.8	9.9	10.0	10.1	10.3	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.9
11.5	8.0	8.5	8.9	9.2	9.4	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.4
12.0	8.4	8.9	9.2	9.6	9.9	10.1	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.8	11.8
12.5	8.7	9.2	9.6	10.0	10.3	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3
13.0	9.0	9.6	10.0	10.4	10.7	10.9	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.8
13.5	9.4	9.9	10.4	10.7	11.1	11.3	11.6	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3
14.0	9.7	10.3	10.7	11.1	11.5	11.7	12.0	12.2	12.4	12.6	12.7	12.9	13.0	13.1	13.3	13.4	13.5	13.6	13.7	13.7	13.8
14.5	10.0	10.6	11.1	11.5	11.9	12.1	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	10.4	11.0	11.5	11.9	12.3	12.6	12.8	13.1	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8
15.5	10.7	11.3	11.9	12.3	12.6	13.0	13.2	13.5	13.7	13.9	14.1	14.2	14.4	14.5	14.7	14.8	14.9	15.0	15.1	15.2	15.3
16.0	11.0	11.7	12.2	12.7	13.0	13.4	13.7	13.9	14.1	14.3	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.5	15.6	15.7	15.8
16.5	11.4	12.1	12.6	13.1	13.4	13.8	14.1	14.3	14.6	14.8	15.0	15.1	15.3	15.5	15.6	15.7	15.9	16.0	16.1	16.2	16.3
17.0	11.7	12.4	13.0	13.4	13.8	14.2	14.5	14.8	15.0	15.2	15.4	15.6	15.8	15.9	16.1	16.2	16.3	16.4	16.6	16.7	16.8
17.5	12.0	12.8	13.3	13.8	14.2	14.6	14.9	15.2	15.4	15.7	15.9	16.0	16.2	16.4	16.5	16.7	16.8	16.9	17.0	17.2	17.3
18.0	12.4	13.1	13.7	14.2	14.6	15.0	15.3	15.6	15.9	16.1	16.3	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.5	17.6	17.8
18.5	12.7	13.5	14.1	14.6	15.0	15.4	15.7	16.0	16.3	16.5	16.7	16.9	17.1	17.3	17.5	17.6	17.8	17.9	18.0	18.1	18.2
19.0	13.0	13.8	14.4	15.0	15.4	15.8	16.1	16.4	16.7	17.0	17.2	17.4	17.6	17.8	17.9	18.1	18.2	18.4	18.5	18.6	18.7
19.5	13.3	14.2	14.8	15.3	15.8	16.2	16.6	16.9	17.1	17.4	17.6	17.8	18.0	18.2	18.4	18.6	18.7	18.8	19.0	19.1	19.2
20.0	13.7	14.5	15.2	15.7	16.2	16.6	17.0	17.3	17.6	17.8	18.1	18.3	18.5	18.7	18.9	19.0	19.2	19.3	19.5	19.6	19.7
20.5	14.0	14.8	15.5	16.1	16.6	17.0	17.4	17.7	18.0	18.3	18.5	18.7	19.0	19.1	19.3	19.5	19.7	19.8	19.9	20.1	20.2
21.0	14.3	15.2	15.9	16.5	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.2	19.4	19.6	19.8	20.0	20.1	20.3	20.4	20.6	20.7
21.5	14.6	15.5	16.3	16.9	17.4	17.8	18.2	18.5	18.9	19.1	19.4	19.6	19.9	20.1	20.3	20.4	20.6	20.8	20.9	21.1	21.2
22.0	15.0	15.9	16.6	17.2	17.8	18.2	18.6	19.0	19.3	19.6	19.8	20.1	20.3	20.5	20.7	20.9	21.1	21.2	21.4	21.5	21.7
22.5	15.3	16.2	17.0	17.6	18.1	18.6	19.0	19.4	19.7	20.0	20.3	20.5	20.8	21.0	21.2	21.4	21.5	21.7	21.9	22.0	22.2
23.0	15.6	16.6	17.3	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	21.0	21.2	21.4	21.6	21.8	22.0	22.2	22.4	22.5	22.7
23.5	15.9	16.9	17.7	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.4	21.7	21.9	22.1	22.3	22.5	22.7	22.8	23.0	23.2
24.0	16.2	17.2	18.1	18.7	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.1	22.4	22.6	22.8	23.0	23.1	23.3	23.5	23.6
24.5	16.6	17.6	18.4	19.1	19.7	20.2	20.6	21.1	21.4	21.7	22.0	22.3	22.6	22.8	23.0	23.2	23.4	23.6	23.8	24.0	24.1
25.0	16.9	17.9	18.8	19.5	20.1	20.6	21.1	21.5	21.8	22.2	22.5	22.8	23.0	23.3	23.5	23.7	23.9	24.1	24.3	24.5	24.6
25.5	17.2	18.3	19.1	19.8	20.5	21.0	21.5	21.9	22.3	22.6	22.9	23.2	23.5	23.7	24.0	24.2	24.4	24.6	24.8	24.9	25.1
26.0	17.5	18.6	19.5	20.2	20.8	21.4	21.9	22.3	22.7	23.0	23.4	23.7	23.9	24.2	24.4	24.6	24.9	25.1	25.2	25.4	25.6
26.5	17.8	18.9	19.8	20.6	21.2	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.6	24.9	25.1	25.3	25.5	25.7	25.9	26.1
27.0	18.1	19.3	20.2	21.0	21.6	22.2	22.7	23.1	23.5	23.9	24.2	24.5	24.8	25.1	25.3	25.6	25.8	26.0	26.2	26.4	26.6
27.5	18.5	19.6	20.5	21.3	22.0	22.6	23.1	23.5	23.9	24.3	24.7	25.0	25.3	25.5	25.8	26.0	26.3	26.5	26.7	26.9	27.1
28.0	18.8	19.9	20.9	21.7	22.4	23.0	23.5	23.9	24.4	24.7	25.1	25.4	25.7	26.0	26.3	26.5	26.7	27.0	27.2	27.4	27.6
28.5	19.1	20.3	21.2	22.1	22.7	23.3	23.9	24.4	24.8	25.2	25.5	25.9	26.2	26.5	26.7	27.0	27.2	27.4	27.7	27.9	28.0
29.0	19.4	20.6	21.6	22.4	23.1	23.7	24.3	24.8	25.2	25.6	26.0	26.3	26.6	26.9	27.2	27.4	27.7	27.9	28.1	28.3	28.5
29.5	19.7	20.9	21.9	22.8	23.5	24.1	24.7	25.2	25.6	26.0	26.4	26.7	27.1	27.4	27.6	27.9	28.2	28.4	28.6	28.8	29.0
30.0	20.0	21.3	22.3	23.1	23.9	24.5	25.1	25.6	26.0	26.5	26.8	27.2	27.5	27.8	28.1	28.4	28.6	28.9	29.1	29.3	29.5
30.5	20.3	21.6	22.6	23.5	24.3	24.9	25.5	26.0	26.5	26.9	27.3	27.6	28.0	28.3	28.6	28.8	29.1	29.3	29.6	29.8	30.0
31.0	20.6	21.9	23.0	23.9	24.6	25.3	25.9	26.4	26.9	27.3	27.7	28.1	28.4	28.7	29.0	29.3	29.6	29.8	30.1	30.3	30.5
31.5	20.9	22.3	23.3	24.2	25.0	25.7	26.3	26.8	27.3	27.7	28.1	28.5	28.9	29.2	29.5	29.8	30.0	30.3	30.5	30.8	31.0
32.0	21.2	22.6	23.7	24.6	25.4	26.1	26.7	27.2	27.7	28.2	28.6	28.9	29.3	29.6	29.9	30.2	30.5	30.8	31.0	31.2	31.5
32.5	21.5	22.9	24.0	25.0	25.8	26.5	27.1	27.6	28.1	28.6	29.0	29.4	29.7	30.1	30.4	30.7	31.0	31.2	31.5	31.7	32.0
33.0	21.8	23.2	24.4	25.3	26.1	26.8	27.5	28.0	28.5	29.0	29.4	29.8	30.2	30.5	30.8	31.2	31.4	31.7	32.0	32.2	32.5
33.5	22.1	23.6	24.7	25.7	26.5	27.2	27.9	28.4	29.0	29.4	29.9	30.3	30.6	31.0	31.3	31.6	31.9	32.2	32.4	32.7	32.9
34.0	22.4	23.9	25.1	26.0	26.9	27.6	28.3	28.8	29.4	29.8	30.3	30.7	31.1	31.4	31.8	32.1	32.4	32.7	32.9	33.2	33.4
34.5	22.8	24.2	25.4	26.4	27.3	28.0	28.7	29.2	29.8	30.3	30.7	31.1	31.5	31.9	32.2	32.5	32.8	33.1	33.4	33.7	33.9
35.0	23.1	24.5	25.7	26.8	27.6	28.4	29.0	29.6	30.2	30.7	31.1	31.6	32.0	32.3	32.7	33.0	33.3	33.6	33.9	34.1	34.4
35.5	23.4	24.9	26.1	27.1	28.0	28.8	29.4	30.1	30.6	31.1	31.6	32.0	32.4	32.8	33.1	33.5	33.8	34.1	34.4	34.6	34.9
36.0	23.6	25.2	26.4	27.5	28.4	29.1	29.8	30.5	31.0	31.5	32.0	32.4	32.8	33.2	33.6	33.9	34.2	34.5	34.8	35.1	35.4
36.5	23.9	25.5	26.8	27.8	28.7	29.5	30.2	30.9	31.4	31.9	32.4	32.9	33.3	33.7	34.0	34.4	34.7	35.0	35.3	35.6	35.9
37.0	24.2	25.8	27.1	28.2	29.1	29.9	30.6	31.3	31.8	32.4	32.9	33.3	33.7	34.1	34.5	34.8	35.2	35.5	35.8	36.1	36.4
37.5	24.5	26.1	27.4	28.5	29.5	30.3	31.0	31.7	32.2	32.8	33.3	33.7	34.2	34.6	34.9	35.3	35.6	36.0	36.3	36.6	36.8
38.0	24.8	26.5	27.8	28.9	29.8	30.7	31.4	32.1	32.7	33.2	33.7	34.2	34.6	35.0	35.4	35.8	36.1	36.4	36.7	37.0	37.3
38.5	25.1	26.8	28.1	29.2	30.2	31.0	31.8	32.5	33.1	33.6	34.1	34.6	35.1	35.5	35.9	36.2	36.6	36.9	37.2	37.5	37.8
39.0	25.4	27.1	28.4	29.6	30.6	31.4	32.2	32.9	33.5	34.0	34.6	35.0	35.5	35.9	36.3	36.7	37.0	37.4	37.7	38.0	38.3
39.5	25.7	27.4	28.8	29.9	30.9	31.8	32.6	33.3	33.9	34.5	35.0	35.5	35.9	36.4	36.8	37.1	37.5	37.8	38.2	38.5	38.8
40.0	26.0	27.7	29.1	30.3	31.3	32.2	33.0	33.7	34.3	34.9	35.4	35.9	36.4	36.8	37.2	37.6	38.0	38.3	38.7	39.0	39.3
40.5	26.3	28.0	29.4	30.6	31.7	32.5	33.3	34.1	34.7	35.3	35.8	36.3	36.8	37.3	37.7	38.1	38.4	38.8	39.1	39.5	39.8
41.0	26.6	28.3	29.8	31.0	32.0	32.9	33.7	34.4	35.1	35.7	36.3	36.8	37.2	37.7	38.1	38.5	38.9	39.3	39.6	39.9	40.3
41.5	26.9	28.7	30.1	31.3	32.4	33.3	34.1	34.8	35.5	36.1	36.7	37.2	37.7	38.1	38.6	39.0	39.4	39.7	40.1	40.4	40.7
42.0	27.2	29.0	30.4	31.7	32.7	33.7	34.5	35.2	35.9	36.5	37.1	37.6	38.1	38.6	39.0	39.4	39.8	40.2	40.6	40.9	41.2
42.5	27.5	29.3	30.8	32.0	33.1	34.0	34.9	35.6	36.3	36.9	37.5	38.1	38.6	39.0	39.5	39.9	40.3	40.7	41.0	41.4	41.7
43.0	27.7	29.6	31.1	32.4	33.5	34.4	35.3	36.0	36.7	37.4	37.9	38.5	39.0	39.5	39.9	40.4	40.8	41.1	41.5	41.9	42.2
43.5	28.0	29.9	31.4	32.7	33.8	34.8	35.6	36.4	37.1	37.8	38.4	38.9	39.4	39.9	40.4	40.8	41.2	41.6	42.0	42.3	42.7
44.0	28.3	30.2	31.8	33.1	34.2	35.2	36.0	36.8	37.5	38.2	38.8	39.3	39.9	40.4	40.8	41.3	41.7	42.1	42.5	42.8	43.2
44.5	28.6	30.5	32.1	33.4	34.5	35.5	36.4	37.2	37.9	38.6	39.2	39.8	40.3	40.8	41.3	41.7	42.1	42.5	42.9	43.3	43.7
45.0	28.9	30.8	32.4	33.7	34.9	35.9	36.8	37.6	38.3	39.0	39.6	40.2	40.7	41.2	41.7	42.2	42.6	43.0	43.4	43.8	44.1
45.5	29.2	31.1	32.7	34.1	35.2	36.3	37.2	38.0	38.7	39.4	40.0	40.6	41.2	41.7	42.2	42.6	43.1	43.5	43.9	44.3	44.6
46.0	29.4	31.4	33.1	34.4	35.6	36.6	37.6	38.4	39.1	39.8	40.5	41.1	41.6	42.1	42.6	43.1	43.5	44.0	44.4	44.7	45.1
46.5	29.7	31.7	33.4	34.8	36.0	37.0	37.9	38.8	39.5	40.2	40.9	41.5	42.0	42.6	43.1	43.5	44.0	44.4	44.8	45.2	45.6
47.0	30.0	32.0	33.7	35.1	36.3	37.4	38.3	39.2	39.9	40.6	41.3	41.9	42.5	43.0	43.5	44.0	44.5	44.9	45.3	45.7	46.1
47.5	30.3	32.3	34.0	35.4	36.7	37.7	38.7	39.6	40.3	41.1	41.7	42.3	42.9	43.5	44.0	44.5	44.9	45.4	45.8	46.2	46.6
48.0	30.6	32.7	34.4	35.8	37.0	38.1	39.1	39.9	40.7	41.5	42.1	42.8	43.3	43.9	44.4	44.9	45.4	45.8	46.3	46.7	47.1
48.5	30.8	33.0	34.7	36.1	37.4	38.5	39.4	40.3	41.1	41.9	42.5	43.2	43.8	44.3	44.9	45.4	45.8	46.3	46.7	47.1	47.6
49.0	31.1	33.3	35.0	36.5	37.7	38.8	39.8	40.7	41.5	42.3	43.0	43.6	44.2	44.8	45.3	45.8	46.3	46.8	47.2	47.6	48.0
49.5	31.4	33.6	35.3	36.8	38.1	39.2	40.2	41.1	41.9	42.7	43.4	44.0	44.6	45.2	45.8	46.3	46.8	47.2	47.7	48.1	48.5
50.0	31.7	33.9	35.6	37.1	38.4	39.6	40.6	41.5	42.3	43.1	43.8	44.5	45.1	45.7	46.2	46.7	47.2	47.7	48.2	48.6	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR WHITE PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.8	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.2	4.4	4.6	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9
6.5	4.5	4.8	5.0	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	4.9	5.2	5.4	5.6	5.8	5.9	6.0	6.2	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9
7.5	5.2	5.6	5.8	6.0	6.2	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.6	5.9	6.2	6.4	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	5.9	6.3	6.6	6.8	7.0	7.2	7.3	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4	8.4
9.0	6.3	6.7	7.0	7.2	7.4	7.6	7.8	7.9	8.0	8.2	8.3	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9	8.9
9.5	6.7	7.1	7.4	7.6	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.2	9.3	9.3	9.4
10.0	7.0	7.4	7.8	8.0	8.3	8.5	8.7	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.8	9.9
10.5	7.4	7.8	8.2	8.5	8.7	8.9	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3	10.3	10.4
11.0	7.7	8.2	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8	10.9
11.5	8.1	8.6	9.0	9.3	9.5	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3	11.4
12.0	8.4	8.9	9.3	9.7	10.0	10.2	10.4	10.6	10.8	10.9	11.0	11.2	11.3	11.4	11.5	11.5	11.6	11.7	11.8	11.8	11.9
12.5	8.8	9.3	9.7	10.1	10.4	10.6	10.8	11.0	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3	12.4
13.0	9.2	9.7	10.1	10.5	10.8	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8	12.9
13.5	9.5	10.1	10.5	10.9	11.2	11.5	11.7	11.9	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3	13.4
14.0	9.9	10.5	10.9	11.3	11.6	11.9	12.2	12.4	12.6	12.7	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.6	13.7	13.8	13.9
14.5	10.3	10.9	11.3	11.7	12.1	12.4	12.6	12.8	13.0	13.2	13.4	13.5	13.6	13.7	13.9	14.0	14.0	14.1	14.2	14.3	14.3
15.0	10.6	11.2	11.7	12.1	12.5	12.8	13.1	13.3	13.5	13.7	13.8	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.8
15.5	11.0	11.6	12.1	12.6	12.9	13.2	13.5	13.7	13.9	14.1	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.3
16.0	11.3	12.0	12.5	13.0	13.3	13.7	13.9	14.2	14.4	14.6	14.8	14.9	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.8
16.5	11.7	12.4	12.9	13.4	13.8	14.1	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.3
17.0	12.1	12.8	13.3	13.8	14.2	14.5	14.8	15.1	15.3	15.5	15.7	15.9	16.0	16.1	16.3	16.4	16.5	16.6	16.7	16.8	16.8
17.5	12.4	13.2	13.7	14.2	14.6	15.0	15.3	15.5	15.8	16.0	16.2	16.3	16.5	16.6	16.7	16.9	17.0	17.1	17.2	17.2	17.3
18.0	12.8	13.5	14.1	14.6	15.0	15.4	15.7	16.0	16.2	16.4	16.6	16.8	17.0	17.1	17.2	17.3	17.5	17.6	17.7	17.7	17.8
18.5	13.2	13.9	14.5	15.0	15.5	15.8	16.2	16.4	16.7	16.9	17.1	17.3	17.4	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3
19.0	13.5	14.3	14.9	15.5	15.9	16.3	16.6	16.9	17.1	17.4	17.6	17.7	17.9	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8
19.5	13.9	14.7	15.4	15.9	16.3	16.7	17.0	17.3	17.6	17.8	18.0	18.2	18.4	18.5	18.7	18.8	18.9	19.0	19.1	19.2	19.3
20.0	14.3	15.1	15.8	16.3	16.8	17.2	17.5	17.8	18.1	18.3	18.5	18.7	18.9	19.0	19.2	19.3	19.4	19.5	19.6	19.7	19.8
20.5	14.6	15.5	16.2	16.7	17.2	17.6	17.9	18.2	18.5	18.8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.0	20.1	20.2	20.3
21.0	15.0	15.9	16.6	17.1	17.6	18.0	18.4	18.7	19.0	19.2	19.4	19.6	19.8	20.0	20.1	20.3	20.4	20.5	20.6	20.7	20.8
21.5	15.4	16.3	17.0	17.6	18.0	18.5	18.8	19.1	19.4	19.7	19.9	20.1	20.3	20.5	20.6	20.8	20.9	21.0	21.1	21.2	21.3
22.0	15.8	16.7	17.4	18.0	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	20.9	21.1	21.2	21.4	21.5	21.6	21.7	21.8
22.5	16.1	17.0	17.8	18.4	18.9	19.3	19.7	20.1	20.4	20.6	20.8	21.1	21.2	21.4	21.6	21.7	21.9	22.0	22.1	22.2	22.3
23.0	16.5	17.4	18.2	18.8	19.3	19.8	20.2	20.5	20.8	21.1	21.3	21.5	21.7	21.9	22.1	22.2	22.3	22.5	22.6	22.7	22.8
23.5	16.9	17.8	18.6	19.2	19.8	20.2	20.6	21.0	21.3	21.5	21.8	22.0	22.2	22.4	22.5	22.7	22.8	23.0	23.1	23.2	23.3
24.0	17.2	18.2	19.0	19.7	20.2	20.7	21.1	21.4	21.7	22.0	22.3	22.5	22.7	22.9	23.0	23.2	23.3	23.5	23.6	23.7	23.8
24.5	17.6	18.6	19.4	20.1	20.6	21.1	21.5	21.9	22.2	22.5	22.7	23.0	23.2	23.4	23.5	23.7	23.8	23.9	24.1	24.2	24.3
25.0	18.0	19.0	19.8	20.5	21.1	21.6	22.0	22.3	22.7	22.9	23.2	23.4	23.6	23.8	24.0	24.2	24.3	24.4	24.6	24.7	24.8
25.5	18.4	19.4	20.2	20.9	21.5	22.0	22.4	22.8	23.1	23.4	23.7	23.9	24.1	24.3	24.5	24.7	24.8	24.9	25.1	25.2	25.3
26.0	18.7	19.8	20.7	21.4	21.9	22.4	22.9	23.3	23.6	23.9	24.2	24.4	24.6	24.8	25.0	25.1	25.3	25.4	25.5	25.7	25.8
26.5	19.1	20.2	21.1	21.8	22.4	22.9	23.3	23.7	24.1	24.4	24.6	24.9	25.1	25.3	25.5	25.6	25.8	25.9	26.0	26.2	26.3
27.0	19.5	20.6	21.5	22.2	22.8	23.3	23.8	24.2	24.5	24.8	25.1	25.3	25.6	25.8	26.0	26.1	26.3	26.4	26.5	26.7	26.8
27.5	19.9	21.0	21.9	22.6	23.2	23.8	24.2	24.6	25.0	25.3	25.6	25.8	26.0	26.3	26.4	26.6	26.8	26.9	27.0	27.2	27.3
28.0	20.2	21.4	22.3	23.1	23.7	24.2	24.7	25.1	25.4	25.8	26.0	26.3	26.5	26.7	26.9	27.1	27.3	27.4	27.5	27.6	27.8
28.5	20.6	21.8	22.7	23.5	24.1	24.7	25.1	25.5	25.9	26.2	26.5	26.8	27.0	27.2	27.4	27.6	27.7	27.9	28.0	28.1	28.3
29.0	21.0	22.2	23.1	23.9	24.6	25.1	25.6	26.0	26.4	26.7	27.0	27.3	27.5	27.7	27.9	28.1	28.2	28.4	28.5	28.6	28.8
29.5	21.4	22.6	23.5	24.3	25.0	25.6	26.0	26.5	26.8	27.2	27.5	27.7	28.0	28.2	28.4	28.6	28.7	28.9	29.0	29.1	29.3
30.0	21.8	23.0	24.0	24.8	25.4	26.0	26.5	26.9	27.3	27.6	27.9	28.2	28.5	28.7	28.9	29.1	29.2	29.4	29.5	29.6	29.8
30.5	22.1	23.4	24.4	25.2	25.9	26.5	27.0	27.4	27.8	28.1	28.4	28.7	28.9	29.2	29.4	29.5	29.7	29.9	30.0	30.1	30.2
31.0	22.5	23.8	24.8	25.6	26.3	26.9	27.4	27.9	28.2	28.6	28.9	29.2	29.4	29.6	29.9	30.0	30.2	30.4	30.5	30.6	30.7
31.5	22.9	24.2	25.2	26.0	26.8	27.3	27.9	28.3	28.7	29.1	29.4	29.7	29.9	30.1	30.3	30.5	30.7	30.9	31.0	31.1	31.2
32.0	23.3	24.6	25.6	26.5	27.2	27.8	28.3	28.8	29.2	29.5	29.9	30.1	30.4	30.6	30.8	31.0	31.2	31.3	31.5	31.6	31.7
32.5	23.7	25.0	26.0	26.9	27.6	28.2	28.8	29.2	29.6	30.0	30.3	30.6	30.9	31.1	31.3	31.5	31.7	31.8	32.0	32.1	32.2
33.0	24.1	25.4	26.5	27.3	28.1	28.7	29.2	29.7	30.1	30.5	30.8	31.1	31.4	31.6	31.8	32.0	32.2	32.3	32.5	32.6	32.7
33.5	24.4	25.8	26.9	27.8	28.5	29.1	29.7	30.2	30.6	31.0	31.3	31.6	31.8	32.1	32.3	32.5	32.7	32.8	33.0	33.1	33.2
34.0	24.8	26.2	27.3	28.2	29.0	29.6	30.2	30.6	31.1	31.4	31.8	32.1	32.3	32.6	32.8	33.0	33.2	33.3	33.5	33.6	33.7
34.5	25.2	26.6	27.7	28.6	29.4	30.1	30.6	31.1	31.5	31.9	32.2	32.5	32.8	33.1	33.3	33.5	33.7	33.8	34.0	34.1	34.2
35.0	25.6	27.0	28.1	29.1	29.8	30.5	31.1	31.6	32.0	32.4	32.7	33.0	33.3	33.5	33.8	34.0	34.2	34.3	34.5	34.6	34.7
35.5	26.0	27.4	28.6	29.5	30.3	31.0	31.5	32.0	32.5	32.9	33.2	33.5	33.8	34.0	34.3	34.5	34.6	34.8	35.0	35.1	35.2
36.0	26.4	27.8	29.0	29.9	30.7	31.4	32.0	32.5	32.9	33.3	33.7	34.0	34.3	34.5	34.7	35.0	35.1	35.3	35.5	35.6	35.7
36.5	26.8	28.2	29.4	30.4	31.2	31.9	32.4	33.0	33.4	33.8	34.2	34.5	34.8	35.0	35.2	35.4	35.6	35.8	36.0	36.1	36.2
37.0	27.2	28.6	29.8	30.8	31.6	32.3	32.9	33.4	33.9	34.3	34.6	35.0	35.2	35.5	35.7	35.9	36.1	36.3	36.5	36.6	36.7
37.5	27.5	29.1	30.3	31.2	32.1	32.8	33.4	33.9	34.4	34.8	35.1	35.4	35.7	36.0	36.2	36.4	36.6	36.8	37.0	37.1	37.2
38.0	27.9	29.5	30.7	31.7	32.5	33.2	33.8	34.4	34.8	35.2	35.6	35.9	36.2	36.5	36.7	36.9	37.1	37.3	37.5	37.6	37.7
38.5	28.3	29.9	31.1	32.1	33.0	33.7	34.3	34.8	35.3	35.7	36.1	36.4	36.7	37.0	37.2	37.4	37.6	37.8	37.9	38.1	38.2
39.0	28.7	30.3	31.5	32.6	33.4	34.1	34.8	35.3	35.8	36.2	36.6	36.9	37.2	37.5	37.7	37.9	38.1	38.3	38.4	38.6	38.7
39.5	29.1	30.7	32.0	33.0	33.9	34.6	35.2	35.8	36.2	36.7	37.0	37.4	37.7	37.9	38.2	38.4	38.6	38.8	38.9	39.1	39.2
40.0	29.5	31.1	32.4	33.4	34.3	35.0	35.7	36.2	36.7	37.1	37.5	37.9	38.2	38.4	38.7	38.9	39.1	39.3	39.4	39.6	39.7
40.5	29.9	31.5	32.8	33.9	34.8	35.5	36.1	36.7	37.2	37.6	38.0	38.4	38.7	38.9	39.2	39.4	39.6	39.8	39.9	40.1	40.2
41.0	30.3	31.9	33.2	34.3	35.2	36.0	36.6	37.2	37.7	38.1	38.5	38.8	39.1	39.4	39.7	39.9	40.1	40.3	40.4	40.6	40.7
41.5	30.7	32.3	33.7	34.8	35.7	36.4	37.1	37.6	38.1	38.6	39.0	39.3	39.6	39.9	40.2	40.4	40.6	40.8	40.9	41.1	41.2
42.0	31.1	32.8	34.1	35.2	36.1	36.9	37.5	38.1	38.6	39.1	39.5	39.8	40.1	40.4	40.7	40.9	41.1	41.3	41.4	41.6	41.7
42.5	31.5	33.2	34.5	35.6	36.6	37.3	38.0	38.6	39.1	39.5	39.9	40.3	40.6	40.9	41.1	41.4	41.6	41.8	41.9	42.1	42.2
43.0	31.9	33.6	35.0	36.1	37.0	37.8	38.5	39.1	39.6	40.0	40.4	40.8	41.1	41.4	41.6	41.9	42.1	42.3	42.4	42.6	42.7
43.5	32.3	34.0	35.4	36.5	37.5	38.3	38.9	39.5	40.1	40.5	40.9	41.3	41.6	41.9	42.1	42.4	42.6	42.8	42.9	43.1	43.2
44.0	32.7	34.4	35.8	37.0	37.9	38.7	39.4	40.0	40.5	41.0	41.4	41.8	42.1	42.4	42.6	42.9	43.1	43.3	43.4	43.6	43.7
44.5	33.1	34.8	36.2	37.4	38.4	39.2	39.9	40.5	41.0	41.5	41.9	42.2	42.6	42.9	43.1	43.4	43.6	43.8	43.9	44.1	44.2
45.0	33.5	35.3	36.7	37.8	38.8	39.6	40.3	41.0	41.5	42.0	42.4	42.7	43.1	43.4	43.6	43.9	44.1	44.3	44.4	44.6	44.7
45.5	33.9	35.7	37.1	38.3	39.3	40.1	40.8	41.4	42.0	42.4	42.9	43.2	43.6	43.8	44.1	44.3	44.6	44.8	44.9	45.1	45.2
46.0	34.3	36.1	37.5	38.7	39.7	40.6	41.3	41.9	42.4	42.9	43.3	43.7	44.0	44.3	44.6	44.8	45.1	45.3	45.4	45.6	45.7
46.5	34.7	36.5	38.0	39.2	40.2	41.0	41.7	42.4	42.9	43.4	43.8	44.2	44.5	44.8	45.1	45.3	45.6	45.7	45.9	46.1	46.2
47.0	35.1	36.9	38.4	39.6	40.6	41.5	42.2	42.8	43.4	43.9	44.3	44.7	45.0	45.3	45.6	45.8	46.1	46.2	46.4	46.6	46.7
47.5	35.5	37.3	38.8	40.1	41.1	41.9	42.7	43.3	43.9	44.4	44.8	45.2	45.5	45.8	46.1	46.3	46.6	46.7	46.9	47.1	47.2
48.0	35.9	37.8	39.3	40.5	41.5	42.4	43.2	43.8	44.4	44.9	45.3	45.7	46.0	46.3	46.6	46.8	47.1	47.2	47.4	47.6	47.7
48.5	36.3	38.2	39.7	41.0	42.0	42.9	43.6	44.3	44.8	45.3	45.8	46.2	46.5	46.8	47.1	47.3	47.6	47.7	47.9	48.1	48.2
49.0	36.7	38.6	40.2	41.4	42.5	43.3	44.1	44.8	45.3	45.8	46.3	46.7	47.0	47.3	47.6	47.8	48.0	48.2	48.4	48.6	48.7
49.5	37.1	39.0	40.6	41.9	42.9	43.8	44.6	45.2	45.8	46.3	46.8	47.1	47.5	47.8	48.1	48.3	48.5	48.7	48.9	49.1	49.2
50.0	37.5	39.5	41.0	42.3	43.4	44.3	45.0	45.7	46.3	46.8	47.2	47.6	48.0	48.3	48.6	48.8	49.0	49.2	49.4	49.6	49.7

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR PITCH PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.6	3.8	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	4.0	4.2	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.4	5.4
6.0	4.4	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9
6.5	4.7	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	5.1	5.3	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9
7.5	5.4	5.7	5.9	6.1	6.3	6.4	6.5	6.7	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.3	7.4	7.4
8.0	5.8	6.1	6.3	6.5	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	6.2	6.5	6.7	6.9	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4	8.4
9.0	6.5	6.9	7.1	7.4	7.5	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9	8.9
9.5	6.9	7.2	7.5	7.8	8.0	8.1	8.3	8.4	8.5	8.7	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.2	9.3	9.3	9.4
10.0	7.3	7.6	7.9	8.2	8.4	8.6	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.8	9.9
10.5	7.6	8.0	8.3	8.6	8.8	9.0	9.2	9.3	9.4	9.6	9.7	9.8	9.9	9.9	10.0	10.1	10.2	10.2	10.3	10.3	10.4
11.0	8.0	8.4	8.7	9.0	9.2	9.4	9.6	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8	10.9
11.5	8.3	8.8	9.1	9.4	9.6	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.0	11.1	11.2	11.3	11.3	11.4
12.0	8.7	9.1	9.5	9.8	10.1	10.3	10.5	10.6	10.8	10.9	11.0	11.2	11.3	11.4	11.4	11.5	11.6	11.7	11.7	11.8	11.9
12.5	9.1	9.5	9.9	10.2	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3	12.4
13.0	9.4	9.9	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.8	12.9
13.5	9.8	10.3	10.7	11.0	11.3	11.6	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.1	13.2	13.3	13.3
14.0	10.1	10.7	11.1	11.4	11.7	12.0	12.2	12.4	12.6	12.7	12.9	13.0	13.1	13.2	13.4	13.4	13.5	13.6	13.7	13.8	13.8
14.5	10.5	11.0	11.5	11.8	12.1	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.3
15.0	10.9	11.4	11.9	12.2	12.6	12.8	13.1	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.8
15.5	11.2	11.8	12.3	12.7	13.0	13.3	13.5	13.7	13.9	14.1	14.3	14.4	14.5	14.7	14.8	14.9	15.0	15.1	15.2	15.2	15.3
16.0	11.6	12.2	12.7	13.1	13.4	13.7	13.9	14.2	14.4	14.6	14.7	14.9	15.0	15.1	15.3	15.4	15.5	15.6	15.7	15.7	15.8
16.5	12.0	12.6	13.1	13.5	13.8	14.1	14.4	14.6	14.8	15.0	15.2	15.3	15.5	15.6	15.7	15.8	16.0	16.1	16.1	16.2	16.3
17.0	12.3	12.9	13.5	13.9	14.2	14.5	14.8	15.1	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8
17.5	12.7	13.3	13.8	14.3	14.7	15.0	15.2	15.5	15.7	15.9	16.1	16.3	16.4	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3
18.0	13.0	13.7	14.2	14.7	15.1	15.4	15.7	15.9	16.2	16.4	16.6	16.7	16.9	17.0	17.2	17.3	17.4	17.5	17.6	17.7	17.8
18.5	13.4	14.1	14.6	15.1	15.5	15.8	16.1	16.4	16.6	16.8	17.0	17.2	17.4	17.5	17.6	17.8	17.9	18.0	18.1	18.2	18.3
19.0	13.8	14.5	15.0	15.5	15.9	16.2	16.6	16.8	17.1	17.3	17.5	17.7	17.8	18.0	18.1	18.2	18.4	18.5	18.6	18.7	18.8
19.5	14.1	14.8	15.4	15.9	16.3	16.7	17.0	17.3	17.5	17.7	17.9	18.1	18.3	18.4	18.6	18.7	18.9	19.0	19.1	19.2	19.3
20.0	14.5	15.2	15.8	16.3	16.7	17.1	17.4	17.7	18.0	18.2	18.4	18.6	18.8	18.9	19.1	19.2	19.3	19.5	19.6	19.7	19.8
20.5	14.8	15.6	16.2	16.7	17.2	17.5	17.9	18.1	18.4	18.6	18.9	19.0	19.2	19.4	19.5	19.7	19.8	19.9	20.1	20.2	20.3
21.0	15.2	16.0	16.6	17.1	17.6	18.0	18.3	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.0	20.2	20.3	20.4	20.5	20.7	20.8
21.5	15.6	16.4	17.0	17.5	18.0	18.4	18.7	19.0	19.3	19.5	19.8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.0	21.1	21.3
22.0	15.9	16.7	17.4	17.9	18.4	18.8	19.2	19.5	19.7	20.0	20.2	20.4	20.6	20.8	21.0	21.1	21.3	21.4	21.5	21.6	21.7
22.5	16.3	17.1	17.8	18.3	18.8	19.2	19.6	19.9	20.2	20.5	20.7	20.9	21.1	21.3	21.4	21.6	21.7	21.9	22.0	22.1	22.2
23.0	16.6	17.5	18.2	18.7	19.2	19.7	20.0	20.4	20.6	20.9	21.1	21.4	21.6	21.8	21.9	22.1	22.2	22.4	22.5	22.6	22.7
23.5	17.0	17.9	18.6	19.2	19.7	20.1	20.5	20.8	21.1	21.4	21.6	21.8	22.0	22.2	22.4	22.6	22.7	22.9	23.0	23.1	23.2
24.0	17.3	18.2	19.0	19.6	20.1	20.5	20.9	21.2	21.5	21.8	22.1	22.3	22.5	22.7	22.9	23.0	23.2	23.3	23.5	23.6	23.7
24.5	17.7	18.6	19.4	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.5	22.8	23.0	23.2	23.3	23.5	23.7	23.8	24.0	24.1	24.2
25.0	18.1	19.0	19.7	20.4	20.9	21.4	21.8	22.1	22.4	22.7	23.0	23.2	23.4	23.6	23.8	24.0	24.2	24.3	24.5	24.6	24.7
25.5	18.4	19.4	20.1	20.8	21.3	21.8	22.2	22.6	22.9	23.2	23.4	23.7	23.9	24.1	24.3	24.5	24.6	24.8	24.9	25.1	25.2
26.0	18.8	19.8	20.5	21.2	21.7	22.2	22.6	23.0	23.3	23.6	23.9	24.1	24.4	24.6	24.8	25.0	25.1	25.3	25.4	25.6	25.7
26.5	19.1	20.1	20.9	21.6	22.1	22.6	23.1	23.4	23.8	24.1	24.4	24.6	24.8	25.1	25.3	25.4	25.6	25.8	25.9	26.1	26.2
27.0	19.5	20.5	21.3	22.0	22.6	23.1	23.5	23.9	24.2	24.5	24.8	25.1	25.3	25.5	25.7	25.9	26.1	26.3	26.4	26.6	26.7
27.5	19.9	20.9	21.7	22.4	23.0	23.5	23.9	24.3	24.7	25.0	25.3	25.5	25.8	26.0	26.2	26.4	26.6	26.7	26.9	27.0	27.2
28.0	20.2	21.3	22.1	22.8	23.4	23.9	24.4	24.8	25.1	25.4	25.7	26.0	26.2	26.5	26.7	26.9	27.1	27.2	27.4	27.5	27.7
28.5	20.6	21.6	22.5	23.2	23.8	24.3	24.8	25.2	25.6	25.9	26.2	26.5	26.7	26.9	27.2	27.4	27.5	27.7	27.9	28.0	28.2
29.0	20.9	22.0	22.9	23.6	24.2	24.8	25.2	25.6	26.0	26.3	26.6	26.9	27.2	27.4	27.6	27.8	28.0	28.2	28.4	28.5	28.7
29.5	21.3	22.4	23.3	24.0	24.6	25.2	25.7	26.1	26.5	26.8	27.1	27.4	27.6	27.9	28.1	28.3	28.5	28.7	28.9	29.0	29.2
30.0	21.7	22.8	23.7	24.4	25.1	25.6	26.1	26.5	26.9	27.2	27.6	27.8	28.1	28.4	28.6	28.8	29.0	29.2	29.3	29.5	29.7
30.5	22.0	23.1	24.1	24.8	25.5	26.0	26.5	27.0	27.3	27.7	28.0	28.3	28.6	28.8	29.1	29.3	29.5	29.7	29.8	30.0	30.1
31.0	22.4	23.5	24.5	25.2	25.9	26.5	27.0	27.4	27.8	28.2	28.5	28.8	29.0	29.3	29.5	29.7	29.9	30.1	30.3	30.5	30.6
31.5	22.7	23.9	24.8	25.6	26.3	26.9	27.4	27.8	28.2	28.6	28.9	29.2	29.5	29.8	30.0	30.2	30.4	30.6	30.8	31.0	31.1
32.0	23.1	24.3	25.2	26.0	26.7	27.3	27.8	28.3	28.7	29.1	29.4	29.7	30.0	30.2	30.5	30.7	30.9	31.1	31.3	31.5	31.6
32.5	23.4	24.7	25.6	26.4	27.1	27.7	28.3	28.7	29.1	29.5	29.9	30.2	30.4	30.7	31.0	31.2	31.4	31.6	31.8	32.0	32.1
33.0	23.8	25.0	26.0	26.8	27.5	28.2	28.7	29.2	29.6	30.0	30.3	30.6	30.9	31.2	31.4	31.7	31.9	32.1	32.3	32.4	32.6
33.5	24.2	25.4	26.4	27.3	28.0	28.6	29.1	29.6	30.0	30.4	30.8	31.1	31.4	31.7	31.9	32.1	32.4	32.6	32.8	32.9	33.1
34.0	24.5	25.8	26.8	27.7	28.4	29.0	29.6	30.0	30.5	30.9	31.2	31.5	31.8	32.1	32.4	32.6	32.8	33.1	33.2	33.4	33.6
34.5	24.9	26.2	27.2	28.1	28.8	29.4	30.0	30.5	30.9	31.3	31.7	32.0	32.3	32.6	32.9	33.1	33.3	33.5	33.7	33.9	34.1
35.0	25.2	26.5	27.6	28.5	29.2	29.9	30.4	30.9	31.4	31.8	32.1	32.5	32.8	33.1	33.3	33.6	33.8	34.0	34.2	34.4	34.6
35.5	25.6	26.9	28.0	28.9	29.6	30.3	30.8	31.4	31.8	32.2	32.6	32.9	33.2	33.5	33.8	34.1	34.3	34.5	34.7	34.9	35.1
36.0	25.9	27.3	28.4	29.3	30.0	30.7	31.3	31.8	32.3	32.7	33.1	33.4	33.7	34.0	34.3	34.5	34.8	35.0	35.2	35.4	35.6
36.5	26.3	27.7	28.8	29.7	30.5	31.1	31.7	32.2	32.7	33.1	33.5	33.9	34.2	34.5	34.8	35.0	35.3	35.5	35.7	35.9	36.1
37.0	26.7	28.0	29.2	30.1	30.9	31.5	32.1	32.7	33.1	33.6	34.0	34.3	34.6	35.0	35.2	35.5	35.7	36.0	36.2	36.4	36.6
37.5	27.0	28.4	29.5	30.5	31.3	32.0	32.6	33.1	33.6	34.0	34.4	34.8	35.1	35.4	35.7	36.0	36.2	36.4	36.7	36.9	37.1
38.0	27.4	28.8	29.9	30.9	31.7	32.4	33.0	33.6	34.0	34.5	34.9	35.2	35.6	35.9	36.2	36.4	36.7	36.9	37.2	37.4	37.6
38.5	27.7	29.2	30.3	31.3	32.1	32.8	33.4	34.0	34.5	34.9	35.3	35.7	36.0	36.4	36.7	36.9	37.2	37.4	37.6	37.9	38.0
39.0	28.1	29.5	30.7	31.7	32.5	33.2	33.9	34.4	34.9	35.4	35.8	36.2	36.5	36.8	37.1	37.4	37.7	37.9	38.1	38.3	38.5
39.5	28.4	29.9	31.1	32.1	32.9	33.7	34.3	34.9	35.4	35.8	36.3	36.6	37.0	37.3	37.6	37.9	38.1	38.4	38.6	38.8	39.0
40.0	28.8	30.3	31.5	32.5	33.3	34.1	34.7	35.3	35.8	36.3	36.7	37.1	37.4	37.8	38.1	38.4	38.6	38.9	39.1	39.3	39.5
40.5	29.2	30.7	31.9	32.9	33.8	34.5	35.2	35.7	36.3	36.7	37.2	37.6	37.9	38.2	38.6	38.8	39.1	39.4	39.6	39.8	40.0
41.0	29.5	31.0	32.3	33.3	34.2	34.9	35.6	36.2	36.7	37.2	37.6	38.0	38.4	38.7	39.0	39.3	39.6	39.8	40.1	40.3	40.5
41.5	29.9	31.4	32.7	33.7	34.6	35.4	36.0	36.6	37.2	37.6	38.1	38.5	38.8	39.2	39.5	39.8	40.1	40.3	40.6	40.8	41.0
42.0	30.2	31.8	33.1	34.1	35.0	35.8	36.5	37.1	37.6	38.1	38.5	38.9	39.3	39.7	40.0	40.3	40.6	40.8	41.1	41.3	41.5
42.5	30.6	32.2	33.4	34.5	35.4	36.2	36.9	37.5	38.0	38.5	39.0	39.4	39.8	40.1	40.5	40.8	41.0	41.3	41.5	41.8	42.0
43.0	30.9	32.5	33.8	34.9	35.8	36.6	37.3	37.9	38.5	39.0	39.4	39.9	40.2	40.6	40.9	41.2	41.5	41.8	42.0	42.3	42.5
43.5	31.3	32.9	34.2	35.3	36.2	37.0	37.8	38.4	38.9	39.4	39.9	40.3	40.7	41.1	41.4	41.7	42.0	42.3	42.5	42.8	43.0
44.0	31.6	33.3	34.6	35.7	36.7	37.5	38.2	38.8	39.4	39.9	40.4	40.8	41.2	41.5	41.9	42.2	42.5	42.8	43.0	43.3	43.5
44.5	32.0	33.7	35.0	36.1	37.1	37.9	38.6	39.3	39.8	40.3	40.8	41.2	41.6	42.0	42.3	42.7	43.0	43.2	43.5	43.7	44.0
45.0	32.4	34.0	35.4	36.5	37.5	38.3	39.0	39.7	40.3	40.8	41.3	41.7	42.1	42.5	42.8	43.1	43.4	43.7	44.0	44.2	44.5
45.5	32.7	34.4	35.8	36.9	37.9	38.7	39.5	40.1	40.7	41.2	41.7	42.2	42.6	42.9	43.3	43.6	43.9	44.2	44.5	44.7	45.0
46.0	33.1	34.8	36.2	37.3	38.3	39.2	39.9	40.6	41.2	41.7	42.2	42.6	43.0	43.4	43.8	44.1	44.4	44.7	45.0	45.2	45.5
46.5	33.4	35.2	36.6	37.7	38.7	39.6	40.3	41.0	41.6	42.1	42.6	43.1	43.5	43.9	44.2	44.6	44.9	45.2	45.4	45.7	45.9
47.0	33.8	35.5	36.9	38.1	39.1	40.0	40.8	41.4	42.1	42.6	43.1	43.6	44.0	44.4	44.7	45.1	45.4	45.7	45.9	46.2	46.4
47.5	34.1	35.9	37.3	38.5	39.5	40.4	41.2	41.9	42.5	43.0	43.6	44.0	44.4	44.8	45.2	45.5	45.8	46.1	46.4	46.7	46.9
48.0	34.5	36.3	37.7	38.9	40.0	40.8	41.6	42.3	42.9	43.5	44.0	44.5	44.9	45.3	45.7	46.0	46.3	46.6	46.9	47.2	47.4
48.5	34.8	36.7	38.1	39.3	40.4	41.3	42.1	42.8	43.4	44.0	44.5	44.9	45.4	45.8	46.1	46.5	46.8	47.1	47.4	47.7	47.9
49.0	35.2	37.0	38.5	39.7	40.8	41.7	42.5	43.2	43.8	44.4	44.9	45.4	45.8	46.2	46.6	47.0	47.3	47.6	47.9	48.2	48.4
49.5	35.5	37.4	38.9	40.1	41.2	42.1	42.9	43.6	44.3	44.9	45.4	45.9	46.3	46.7	47.1	47.4	47.8	48.1	48.4	48.6	48.9
50.0	35.9	37.8	39.3	40.5	41.6	42.5	43.3	44.1	44.7	45.3	45.8	46.3	46.8	47.2	47.6	47.9	48.3	48.6	48.9	49.1	49.4

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR TABLE-MOUNTAIN PINE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9	4.9
5.5	3.7	3.9	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4
6.0	4.1	4.3	4.5	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.5	4.7	4.9	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	4.8	5.1	5.3	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.2	5.5	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.3	7.3	7.4	7.4
8.0	5.6	5.9	6.1	6.3	6.5	6.7	6.8	6.9	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9
8.5	6.0	6.3	6.5	6.8	6.9	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.3	6.7	6.9	7.2	7.4	7.6	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.9
9.5	6.7	7.1	7.4	7.6	7.8	8.0	8.2	8.3	8.4	8.6	8.7	8.8	8.9	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.4
10.0	7.1	7.5	7.8	8.0	8.3	8.4	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.7	9.8	9.8	9.9
10.5	7.5	7.9	8.2	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.3	10.3	10.4
11.0	7.9	8.3	8.6	8.9	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8	10.9
11.5	8.3	8.7	9.0	9.3	9.6	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3	11.4
12.0	8.7	9.1	9.5	9.8	10.0	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.8	11.8	11.9
12.5	9.1	9.5	9.9	10.2	10.5	10.7	10.9	11.1	11.3	11.4	11.5	11.7	11.8	11.9	12.0	12.0	12.1	12.2	12.3	12.3	12.4
13.0	9.5	10.0	10.4	10.7	10.9	11.2	11.4	11.6	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.5	12.6	12.7	12.8	12.8	12.9
13.5	9.9	10.4	10.8	11.1	11.4	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.8	12.9	13.0	13.0	13.1	13.2	13.3	13.3	13.4
14.0	10.3	10.8	11.2	11.6	11.9	12.1	12.3	12.5	12.7	12.9	13.0	13.1	13.3	13.4	13.5	13.5	13.6	13.7	13.8	13.8	13.9
14.5	10.8	11.3	11.7	12.0	12.3	12.6	12.8	13.0	13.2	13.4	13.5	13.6	13.8	13.9	14.0	14.0	14.1	14.2	14.3	14.3	14.4
15.0	11.2	11.7	12.1	12.5	12.8	13.1	13.3	13.5	13.7	13.9	14.0	14.1	14.2	14.4	14.5	14.5	14.6	14.7	14.8	14.8	14.9
15.5	11.6	12.1	12.6	13.0	13.3	13.5	13.8	14.0	14.2	14.3	14.5	14.6	14.7	14.9	15.0	15.0	15.1	15.2	15.3	15.3	15.4
16.0	12.0	12.6	13.0	13.4	13.7	14.0	14.3	14.5	14.7	14.8	15.0	15.1	15.2	15.4	15.5	15.5	15.6	15.7	15.8	15.8	15.9
16.5	12.5	13.0	13.5	13.9	14.2	14.5	14.8	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.0	16.1	16.1	16.2	16.3	16.3	16.4
17.0	12.9	13.5	14.0	14.4	14.7	15.0	15.2	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.5	16.6	16.6	16.7	16.8	16.8	16.9
17.5	13.3	13.9	14.4	14.8	15.2	15.5	15.7	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.0	17.1	17.1	17.2	17.3	17.3	17.4
18.0	13.8	14.4	14.9	15.3	15.7	16.0	16.2	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.5	17.6	17.7	17.7	17.8	17.8	17.9
18.5	14.2	14.9	15.4	15.8	16.1	16.5	16.7	17.0	17.2	17.3	17.5	17.7	17.8	17.9	18.0	18.1	18.2	18.2	18.3	18.4	18.4
19.0	14.7	15.3	15.8	16.3	16.6	17.0	17.2	17.5	17.7	17.9	18.0	18.2	18.3	18.4	18.5	18.6	18.7	18.7	18.8	18.9	18.9
19.5	15.1	15.8	16.3	16.8	17.1	17.5	17.7	18.0	18.2	18.4	18.5	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.3	19.4	19.4
20.0	15.6	16.3	16.8	17.2	17.6	18.0	18.2	18.5	18.7	18.9	19.0	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.8	19.9	19.9
20.5	16.0	16.7	17.3	17.7	18.1	18.5	18.7	19.0	19.2	19.4	19.6	19.7	19.8	19.9	20.0	20.1	20.2	20.3	20.3	20.4	20.4
21.0	16.5	17.2	17.8	18.2	18.6	19.0	19.2	19.5	19.7	19.9	20.1	20.2	20.3	20.5	20.6	20.6	20.7	20.8	20.8	20.9	20.9
21.5	17.0	17.7	18.3	18.7	19.1	19.5	19.8	20.0	20.2	20.4	20.6	20.7	20.9	21.0	21.1	21.2	21.2	21.3	21.4	21.4	21.4
22.0	17.4	18.2	18.7	19.2	19.6	20.0	20.3	20.5	20.8	20.9	21.1	21.3	21.4	21.5	21.6	21.7	21.8	21.8	21.9	21.9	21.9
22.5	17.9	18.7	19.2	19.7	20.1	20.5	20.8	21.1	21.3	21.5	21.6	21.8	21.9	22.0	22.1	22.2	22.3	22.3	22.4	22.4	22.5
23.0	18.4	19.1	19.7	20.2	20.7	21.0	21.3	21.6	21.8	22.0	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.8	22.9	22.9	23.0
23.5	18.9	19.6	20.2	20.8	21.2	21.5	21.8	22.1	22.3	22.5	22.7	22.8	23.0	23.1	23.2	23.2	23.3	23.4	23.4	23.4	23.5
24.0	19.4	20.1	20.8	21.3	21.7	22.1	22.4	22.6	22.9	23.0	23.2	23.4	23.5	23.6	23.7	23.8	23.8	23.9	23.9	24.0	24.0
24.5	19.8	20.6	21.3	21.8	22.2	22.6	22.9	23.2	23.4	23.6	23.7	23.9	24.0	24.1	24.2	24.3	24.3	24.4	24.4	24.5	24.5
25.0	20.3	21.1	21.8	22.3	22.7	23.1	23.4	23.7	23.9	24.1	24.3	24.4	24.5	24.6	24.7	24.8	24.9	24.9	25.0	25.0	25.0
25.5	20.8	21.6	22.3	22.8	23.3	23.6	23.9	24.2	24.4	24.6	24.8	25.0	25.1	25.2	25.3	25.3	25.4	25.4	25.5	25.5	25.5
26.0	21.3	22.1	22.8	23.3	23.8	24.2	24.5	24.8	25.0	25.2	25.3	25.5	25.6	25.7	25.8	25.9	25.9	26.0	26.0	26.0	26.0
26.5	21.8	22.7	23.3	23.9	24.3	24.7	25.0	25.3	25.5	25.7	25.9	26.0	26.1	26.2	26.3	26.4	26.4	26.5	26.5	26.5	26.5
27.0	22.3	23.2	23.9	24.4	24.9	25.2	25.6	25.8	26.1	26.3	26.4	26.6	26.7	26.8	26.9	26.9	27.0	27.0	27.0	27.0	27.0
27.5	22.8	23.7	24.4	24.9	25.4	25.8	26.1	26.4	26.6	26.8	27.0	27.1	27.2	27.3	27.4	27.4	27.5	27.5	27.5	27.5	27.5

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR REDCEDAR

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.0
5.5	3.7	4.0	4.2	4.4	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.5
6.0	4.0	4.3	4.6	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9
6.5	4.3	4.7	5.0	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4
7.0	4.7	5.0	5.3	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9
7.5	5.0	5.4	5.7	5.9	6.1	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.3	7.4	7.4
8.0	5.3	5.7	6.0	6.3	6.5	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	5.6	6.0	6.4	6.7	6.9	7.1	7.3	7.4	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4	8.4
9.0	5.9	6.4	6.7	7.0	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.9	8.9
9.5	6.2	6.7	7.1	7.4	7.7	7.9	8.1	8.3	8.4	8.5	8.7	8.8	8.9	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.4
10.0	6.5	7.0	7.4	7.8	8.0	8.3	8.5	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.9
10.5	6.7	7.3	7.8	8.1	8.4	8.7	8.9	9.1	9.3	9.4	9.5	9.7	9.8	9.9	9.9	10.0	10.1	10.2	10.2	10.3	10.4
11.0	7.0	7.6	8.1	8.5	8.8	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.9
11.5	7.3	7.9	8.4	8.8	9.2	9.4	9.7	9.9	10.1	10.2	10.4	10.5	10.7	10.8	10.9	11.0	11.0	11.1	11.2	11.3	11.3
12.0	7.6	8.2	8.8	9.2	9.5	9.8	10.1	10.3	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.8
12.5	7.9	8.5	9.1	9.5	9.9	10.2	10.5	10.7	10.9	11.1	11.3	11.4	11.5	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3
13.0	8.1	8.9	9.4	9.9	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.5	12.6	12.6	12.7	12.8
13.5	8.4	9.1	9.7	10.2	10.6	10.9	11.2	11.5	11.7	11.9	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3
14.0	8.7	9.4	10.1	10.6	11.0	11.3	11.6	11.9	12.1	12.3	12.5	12.7	12.9	13.0	13.1	13.3	13.4	13.5	13.6	13.7	13.8
14.5	8.9	9.7	10.4	10.9	11.3	11.7	12.0	12.3	12.5	12.8	13.0	13.1	13.3	13.5	13.6	13.7	13.8	14.0	14.1	14.2	14.3
15.0	9.2	10.0	10.7	11.2	11.7	12.1	12.4	12.7	12.9	13.2	13.4	13.6	13.7	13.9	14.0	14.2	14.3	14.4	14.6	14.7	14.8
15.5	9.4	10.3	11.0	11.5	12.0	12.4	12.8	13.1	13.3	13.6	13.8	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.0	15.1	15.2
16.0	9.7	10.6	11.3	11.9	12.4	12.8	13.1	13.4	13.7	14.0	14.2	14.4	14.6	14.8	14.9	15.1	15.2	15.4	15.5	15.6	15.7
16.5	9.9	10.9	11.6	12.2	12.7	13.1	13.5	13.8	14.1	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.8	16.0	16.1	16.2
17.0	10.2	11.1	11.9	12.5	13.0	13.5	13.9	14.2	14.5	14.8	15.0	15.3	15.5	15.7	15.8	16.0	16.2	16.3	16.4	16.6	16.7
17.5	10.4	11.4	12.2	12.8	13.4	13.8	14.2	14.6	14.9	15.2	15.4	15.7	15.9	16.1	16.3	16.5	16.6	16.8	16.9	17.1	17.2
18.0	10.7	11.7	12.5	13.2	13.7	14.2	14.6	15.0	15.3	15.6	15.8	16.1	16.3	16.5	16.7	16.9	17.1	17.2	17.4	17.5	17.7
18.5	10.9	12.0	12.8	13.5	14.0	14.5	15.0	15.3	15.7	16.0	16.3	16.5	16.7	17.0	17.2	17.4	17.5	17.7	17.9	18.0	18.2
19.0	11.1	12.2	13.1	13.8	14.4	14.9	15.3	15.7	16.1	16.4	16.7	16.9	17.2	17.4	17.6	17.8	18.0	18.2	18.3	18.5	18.6
19.5	11.4	12.5	13.4	14.1	14.7	15.2	15.7	16.1	16.4	16.8	17.1	17.3	17.6	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.1
20.0	11.6	12.7	13.6	14.4	15.0	15.6	16.0	16.4	16.8	17.2	17.5	17.7	18.0	18.3	18.5	18.7	18.9	19.1	19.3	19.4	19.6
20.5	11.8	13.0	13.9	14.7	15.3	15.9	16.4	16.8	17.2	17.5	17.9	18.2	18.4	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.1
21.0	12.0	13.2	14.2	15.0	15.7	16.2	16.7	17.2	17.6	17.9	18.3	18.6	18.8	19.1	19.4	19.6	19.8	20.0	20.2	20.4	20.6
21.5	12.3	13.5	14.5	15.3	16.0	16.6	17.1	17.5	17.9	18.3	18.7	19.0	19.3	19.5	19.8	20.0	20.3	20.5	20.7	20.9	21.1
22.0	12.5	13.7	14.7	15.6	16.3	16.9	17.4	17.9	18.3	18.7	19.0	19.4	19.7	20.0	20.2	20.5	20.7	20.9	21.1	21.3	21.5
22.5	12.7	14.0	15.0	15.9	16.6	17.2	17.8	18.2	18.7	19.1	19.4	19.8	20.1	20.4	20.6	20.9	21.2	21.4	21.6	21.8	22.0
23.0	12.9	14.2	15.3	16.2	16.9	17.5	18.1	18.6	19.0	19.5	19.8	20.2	20.5	20.8	21.1	21.3	21.6	21.8	22.1	22.3	22.5
23.5	13.1	14.5	15.5	16.4	17.2	17.9	18.4	19.0	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.3	22.5	22.8	23.0
24.0	13.3	14.7	15.8	16.7	17.5	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.2	22.5	22.7	23.0	23.2	23.5
24.5	13.5	14.9	16.1	17.0	17.8	18.5	19.1	19.6	20.1	20.6	21.0	21.4	21.7	22.1	22.4	22.7	22.9	23.2	23.5	23.7	23.9
25.0	13.7	15.1	16.3	17.3	18.1	18.8	19.4	20.0	20.5	21.0	21.4	21.8	22.1	22.5	22.8	23.1	23.4	23.7	23.9	24.2	24.4
25.5	13.9	15.4	16.6	17.6	18.4	19.1	19.8	20.3	20.9	21.3	21.8	22.2	22.5	22.9	23.2	23.5	23.8	24.1	24.4	24.6	24.9
26.0	14.1	15.6	16.8	17.8	18.7	19.4	20.1	20.7	21.2	21.7	22.1	22.5	22.9	23.3	23.6	24.0	24.3	24.6	24.8	25.1	25.4
26.5	14.2	15.8	17.1	18.1	19.0	19.7	20.4	21.0	21.6	22.1	22.5	22.9	23.3	23.7	24.1	24.4	24.7	25.0	25.3	25.6	25.9
27.0	14.4	16.0	17.3	18.4	19.3	20.0	20.7	21.3	21.9	22.4	22.9	23.3	23.7	24.1	24.5	24.8	25.1	25.5	25.8	26.1	26.3
27.5	14.6	16.2	17.5	18.6	19.5	20.3	21.0	21.7	22.3	22.8	23.3	23.7	24.1	24.5	24.9	25.3	25.6	25.9	26.2	26.5	26.8
28.0	14.8	16.4	17.8	18.9	19.8	20.6	21.4	22.0	22.6	23.1	23.6	24.1	24.5	24.9	25.3	25.7	26.0	26.4	26.7	27.0	27.3
28.5	14.9	16.6	18.0	19.1	20.1	20.9	21.7	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.7	26.1	26.5	26.8	27.1	27.5	27.8
29.0	15.1	16.8	18.2	19.4	20.4	21.2	22.0	22.7	23.3	23.8	24.4	24.9	25.3	25.7	26.1	26.5	26.9	27.3	27.6	27.9	28.2
29.5	15.3	17.0	18.5	19.6	20.6	21.5	22.3	23.0	23.6	24.2	24.7	25.2	25.7	26.1	26.6	27.0	27.3	27.7	28.1	28.4	28.7
30.0	15.4	17.2	18.7	19.9	20.9	21.8	22.6	23.3	24.0	24.6	25.1	25.6	26.1	26.5	27.0	27.4	27.8	28.1	28.5	28.9	29.2
30.5	15.6	17.4	18.9	20.1	21.2	22.1	22.9	23.6	24.3	24.9	25.5	26.0	26.5	26.9	27.4	27.8	28.2	28.6	29.0	29.3	29.7
31.0	15.7	17.6	19.1	20.4	21.4	22.4	23.2	23.9	24.6	25.2	25.8	26.4	26.9	27.3	27.8	28.2	28.6	29.0	29.4	29.8	30.1
31.5	15.9	17.8	19.3	20.6	21.7	22.7	23.5	24.3	25.0	25.6	26.2	26.7	27.3	27.7	28.2	28.6	29.1	29.5	29.9	30.3	30.6
32.0	16.0	18.0	19.5	20.8	22.0	22.9	23.8	24.6	25.3	25.9	26.5	27.1	27.6	28.1	28.6	29.1	29.5	29.9	30.3	30.7	31.1
32.5	16.2	18.2	19.7	21.1	22.2	23.2	24.1	24.9	25.6	26.3	26.9	27.5	28.0	28.5	29.0	29.5	29.9	30.4	30.8	31.2	31.6
33.0	16.3	18.3	20.0	21.3	22.5	23.5	24.4	25.2	25.9	26.6	27.3	27.8	28.4	28.9	29.4	29.9	30.4	30.8	31.2	31.6	32.0
33.5	16.5	18.5	20.2	21.5	22.7	23.8	24.7	25.5	26.3	27.0	27.6	28.2	28.8	29.3	29.8	30.3	30.8	31.2	31.7	32.1	32.5
34.0	16.6	18.7	20.4	21.8	23.0	24.0	25.0	25.8	26.6	27.3	28.0	28.6	29.2	29.7	30.2	30.7	31.2	31.7	32.1	32.6	33.0
34.5	16.7	18.8	20.5	22.0	23.2	24.3	25.2	26.1	26.9	27.6	28.3	28.9	29.5	30.1	30.6	31.2	31.6	32.1	32.6	33.0	33.5
35.0	16.9	19.0	20.7	22.2	23.4	24.5	25.5	26.4	27.2	28.0	28.6	29.3	29.9	30.5	31.0	31.6	32.1	32.6	33.0	33.5	33.9
35.5	17.0	19.2	20.9	22.4	23.7	24.8	25.8	26.7	27.5	28.3	29.0	29.7	30.3	30.9	31.4	32.0	32.5	33.0	33.5	34.0	34.4
36.0	17.1	19.3	21.1	22.6	23.9	25.1	26.1	27.0	27.8	28.6	29.3	30.0	30.6	31.3	31.8	32.4	32.9	33.4	33.9	34.4	34.9
36.5	17.2	19.5	21.3	22.8	24.2	25.3	26.4	27.3	28.1	28.9	29.7	30.4	31.0	31.6	32.2	32.8	33.3	33.9	34.4	34.9	35.3
37.0	17.3	19.6	21.5	23.0	24.4	25.6	26.6	27.6	28.5	29.3	30.0	30.7	31.4	32.0	32.6	33.2	33.8	34.3	34.8	35.3	35.8
37.5	17.4	19.8	21.7	23.3	24.6	25.8	26.9	27.9	28.8	29.6	30.4	31.1	31.8	32.4	33.0	33.6	34.2	34.7	35.3	35.8	36.3
38.0	17.5	19.9	21.8	23.5	24.8	26.1	27.2	28.2	29.1	29.9	30.7	31.4	32.1	32.8	33.4	34.0	34.6	35.2	35.7	36.2	36.8
38.5	17.7	20.1	22.0	23.7	25.1	26.3	27.4	28.4	29.4	30.2	31.0	31.8	32.5	33.2	33.8	34.4	35.0	35.6	36.2	36.7	37.2
39.0	17.8	20.2	22.2	23.8	25.3	26.6	27.7	28.7	29.7	30.5	31.4	32.1	32.8	33.5	34.2	34.8	35.4	36.0	36.6	37.2	37.7
39.5	17.9	20.3	22.3	24.0	25.5	26.8	27.9	29.0	30.0	30.9	31.7	32.5	33.2	33.9	34.6	35.2	35.9	36.5	37.0	37.6	38.2
40.0	17.9	20.5	22.5	24.2	25.7	27.0	28.2	29.3	30.3	31.2	32.0	32.8	33.6	34.3	35.0	35.6	36.3	36.9	37.5	38.1	38.6
40.5	18.0	20.6	22.7	24.4	25.9	27.3	28.5	29.5	30.5	31.5	32.3	33.2	33.9	34.7	35.4	36.0	36.7	37.3	37.9	38.5	39.1
41.0	18.1	20.7	22.8	24.6	26.1	27.5	28.7	29.8	30.8	31.8	32.7	33.5	34.3	35.0	35.7	36.4	37.1	37.7	38.4	39.0	39.6
41.5	18.2	20.8	23.0	24.8	26.3	27.7	29.0	30.1	31.1	32.1	33.0	33.8	34.6	35.4	36.1	36.8	37.5	38.2	38.8	39.4	40.0
42.0	18.3	21.0	23.1	25.0	26.6	28.0	29.2	30.4	31.4	32.4	33.3	34.2	35.0	35.8	36.5	37.2	37.9	38.6	39.3	39.9	40.5
42.5	18.4	21.1	23.3	25.1	26.8	28.2	29.5	30.6	31.7	32.7	33.6	34.5	35.3	36.1	36.9	37.6	38.3	39.0	39.7	40.3	41.0
43.0	18.4	21.2	23.4	25.3	27.0	28.4	29.7	30.9	32.0	33.0	33.9	34.8	35.7	36.5	37.3	38.0	38.7	39.5	40.1	40.8	41.4
43.5	18.5	21.3	23.6	25.5	27.2	28.6	29.9	31.1	32.3	33.3	34.3	35.2	36.0	36.9	37.7	38.4	39.2	39.9	40.6	41.2	41.9
44.0	18.6	21.4	23.7	25.7	27.3	28.8	30.2	31.4	32.5	33.6	34.6	35.5	36.4	37.2	38.0	38.8	39.6	40.3	41.0	41.7	42.4
44.5	18.7	21.5	23.8	25.8	27.5	29.1	30.4	31.7	32.8	33.9	34.9	35.8	36.7	37.6	38.4	39.2	40.0	40.7	41.4	42.1	42.8
45.0	18.7	21.6	24.0	26.0	27.7	29.3	30.7	31.9	33.1	34.2	35.2	36.2	37.1	37.9	38.8	39.6	40.4	41.1	41.9	42.6	43.3
45.5	18.8	21.7	24.1	26.1	27.9	29.5	30.9	32.2	33.4	34.5	35.5	36.5	37.4	38.3	39.2	40.0	40.8	41.6	42.3	43.0	43.8
46.0	18.8	21.8	24.2	26.3	28.1	29.7	31.1	32.4	33.6	34.7	35.8	36.8	37.8	38.7	39.5	40.4	41.2	42.0	42.7	43.5	44.2
46.5	18.9	21.9	24.4	26.5	28.3	29.9	31.3	32.7	33.9	35.0	36.1	37.1	38.1	39.0	39.9	40.8	41.6	42.4	43.2	43.9	44.7
47.0	18.9	22.0	24.5	26.6	28.4	30.1	31.6	32.9	34.2	35.3	36.4	37.4	38.4	39.4	40.3	41.2	42.0	42.8	43.6	44.4	45.2
47.5	19.0	22.1	24.6	26.8	28.6	30.3	31.8	33.2	34.4	35.6	36.7	37.8	38.8	39.7	40.6	41.5	42.4	43.2	44.0	44.8	45.6
48.0	19.0	22.1	24.7	26.9	28.8	30.5	32.0	33.4	34.7	35.9	37.0	38.1	39.1	40.1	41.0	41.9	42.8	43.7	44.5	45.3	46.1
48.5	19.1	22.2	24.8	27.0	29.0	30.7	32.2	33.6	34.9	36.2	37.3	38.4	39.4	40.4	41.4	42.3	43.2	44.1	44.9	45.7	46.5
49.0	19.1	22.3	24.9	27.2	29.1	30.9	32.4	33.9	35.2	36.4	37.6	38.7	39.8	40.8	41.8	42.7	43.6	44.5	45.3	46.2	47.0
49.5	19.1	22.4	25.0	27.3	29.3	31.1	32.6	34.1	35.5	36.7	37.9	39.0	40.1	41.1	42.1	43.1	44.0	44.9	45.8	46.6	47.5
50.0	19.2	22.4	25.1	27.4	29.5	31.2	32.9	34.3	35.7	37.0	38.2	39.3	40.4	41.5	42.5	43.5	44.4	45.3	46.2	47.1	47.9

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BALDCYPRESS

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	2.8	2.9	3.1	3.2	3.3	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8
5.5	3.1	3.2	3.4	3.5	3.6	3.8	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.3
6.0	3.4	3.5	3.7	3.8	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8
6.5	3.6	3.8	4.0	4.1	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	6.0	6.1	6.2	6.3
7.0	3.9	4.1	4.3	4.4	4.6	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.8	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7
7.5	4.2	4.4	4.6	4.7	4.9	5.1	5.3	5.5	5.6	5.8	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.9	7.0	7.1	7.2
8.0	4.4	4.6	4.8	5.1	5.3	5.4	5.6	5.8	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.3	7.5	7.6	7.7
8.5	4.7	4.9	5.1	5.4	5.6	5.8	6.0	6.2	6.4	6.5	6.7	6.9	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2
9.0	5.0	5.2	5.4	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.1	7.3	7.4	7.6	7.8	7.9	8.1	8.2	8.4	8.5	8.7
9.5	5.2	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.1	7.3	7.5	7.7	7.8	8.0	8.2	8.4	8.5	8.7	8.8	9.0	9.1
10.0	5.5	5.8	6.0	6.3	6.5	6.8	7.0	7.2	7.4	7.7	7.9	8.1	8.3	8.4	8.6	8.8	9.0	9.1	9.3	9.5	9.6
10.5	5.7	6.0	6.3	6.6	6.8	7.1	7.3	7.6	7.8	8.0	8.2	8.5	8.7	8.9	9.0	9.2	9.4	9.6	9.8	9.9	10.1
11.0	6.0	6.3	6.6	6.9	7.2	7.4	7.7	7.9	8.2	8.4	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.2	10.4	10.6
11.5	6.3	6.6	6.9	7.2	7.5	7.7	8.0	8.3	8.5	8.8	9.0	9.2	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.1
12.0	6.5	6.8	7.2	7.5	7.8	8.1	8.4	8.6	8.9	9.2	9.4	9.6	9.9	10.1	10.3	10.5	10.8	11.0	11.2	11.3	11.5
12.5	6.8	7.1	7.4	7.8	8.1	8.4	8.7	9.0	9.3	9.5	9.8	10.0	10.3	10.5	10.7	11.0	11.2	11.4	11.6	11.8	12.0
13.0	7.0	7.4	7.7	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.4	10.7	10.9	11.2	11.4	11.6	11.9	12.1	12.3	12.5
13.5	7.3	7.7	8.0	8.4	8.7	9.0	9.4	9.7	10.0	10.3	10.5	10.8	11.1	11.3	11.6	11.8	12.1	12.3	12.5	12.8	13.0
14.0	7.5	7.9	8.3	8.7	9.0	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.5	11.8	12.0	12.3	12.5	12.8	13.0	13.2	13.5
14.5	7.8	8.2	8.6	9.0	9.3	9.7	10.0	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.4	12.7	13.0	13.2	13.5	13.7	13.9
15.0	8.0	8.4	8.9	9.2	9.6	10.0	10.4	10.7	11.0	11.4	11.7	12.0	12.3	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.4
15.5	8.3	8.7	9.1	9.5	9.9	10.3	10.7	11.1	11.4	11.7	12.1	12.4	12.7	13.0	13.3	13.6	13.8	14.1	14.4	14.6	14.9
16.0	8.5	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.1	12.4	12.8	13.1	13.4	13.7	14.0	14.3	14.6	14.8	15.1	15.4
16.5	8.8	9.2	9.7	10.1	10.5	11.0	11.4	11.7	12.1	12.5	12.8	13.2	13.5	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.8
17.0	9.0	9.5	10.0	10.4	10.8	11.3	11.7	12.1	12.5	12.8	13.2	13.6	13.9	14.2	14.5	14.9	15.2	15.5	15.8	16.0	16.3
17.5	9.3	9.7	10.2	10.7	11.1	11.6	12.0	12.4	12.8	13.2	13.6	13.9	14.3	14.6	15.0	15.3	15.6	15.9	16.2	16.5	16.8
18.0	9.5	10.0	10.5	11.0	11.4	11.9	12.3	12.8	13.2	13.6	14.0	14.3	14.7	15.0	15.4	15.7	16.0	16.4	16.7	17.0	17.3
18.5	9.7	10.3	10.8	11.3	11.7	12.2	12.7	13.1	13.5	13.9	14.3	14.7	15.1	15.4	15.8	16.1	16.5	16.8	17.1	17.5	17.8
19.0	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.4	13.9	14.3	14.7	15.1	15.5	15.9	16.2	16.6	16.9	17.3	17.6	17.9	18.2
19.5	10.2	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.2	14.7	15.1	15.5	15.9	16.3	16.6	17.0	17.4	17.7	18.1	18.4	18.7
20.0	10.5	11.0	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.0	15.4	15.9	16.3	16.7	17.1	17.4	17.8	18.2	18.5	18.9	19.2
20.5	10.7	11.3	11.8	12.4	12.9	13.5	14.0	14.4	14.9	15.4	15.8	16.2	16.7	17.1	17.5	17.9	18.2	18.6	19.0	19.3	19.7
21.0	10.9	11.5	12.1	12.7	13.2	13.8	14.3	14.8	15.3	15.7	16.2	16.6	17.1	17.5	17.9	18.3	18.7	19.1	19.4	19.8	20.1
21.5	11.2	11.8	12.4	12.9	13.5	14.1	14.6	15.1	15.6	16.1	16.6	17.0	17.5	17.9	18.3	18.7	19.1	19.5	19.9	20.3	20.6
22.0	11.4	12.0	12.6	13.2	13.8	14.4	14.9	15.4	16.0	16.4	16.9	17.4	17.8	18.3	18.7	19.1	19.5	19.9	20.3	20.7	21.1
22.5	11.6	12.3	12.9	13.5	14.1	14.7	15.2	15.8	16.3	16.8	17.3	17.8	18.2	18.7	19.1	19.6	20.0	20.4	20.8	21.2	21.6
23.0	11.9	12.5	13.1	13.8	14.4	15.0	15.6	16.1	16.6	17.2	17.7	18.2	18.6	19.1	19.5	20.0	20.4	20.8	21.3	21.7	22.0
23.5	12.1	12.8	13.4	14.1	14.7	15.3	15.9	16.4	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.4	20.9	21.3	21.7	22.1	22.5
24.0	12.3	13.0	13.7	14.3	15.0	15.6	16.2	16.8	17.3	17.9	18.4	18.9	19.4	19.9	20.4	20.8	21.3	21.7	22.2	22.6	23.0
24.5	12.5	13.2	13.9	14.6	15.2	15.9	16.5	17.1	17.7	18.2	18.8	19.3	19.8	20.3	20.8	21.3	21.7	22.2	22.6	23.1	23.5
25.0	12.8	13.5	14.2	14.9	15.5	16.2	16.8	17.4	18.0	18.6	19.1	19.7	20.2	20.7	21.2	21.7	22.2	22.6	23.1	23.5	24.0
25.5	13.0	13.7	14.4	15.1	15.8	16.5	17.1	17.7	18.3	18.9	19.5	20.0	20.6	21.1	21.6	22.1	22.6	23.1	23.5	24.0	24.4
26.0	13.2	13.9	14.7	15.4	16.1	16.8	17.4	18.1	18.7	19.3	19.9	20.4	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.4	24.9
26.5	13.4	14.2	14.9	15.7	16.4	17.1	17.7	18.4	19.0	19.6	20.2	20.8	21.4	21.9	22.4	23.0	23.5	24.0	24.4	24.9	25.4
27.0	13.6	14.4	15.2	15.9	16.7	17.4	18.1	18.7	19.4	20.0	20.6	21.2	21.7	22.3	22.8	23.4	23.9	24.4	24.9	25.4	25.9
27.5	13.9	14.7	15.4	16.2	16.9	17.7	18.4	19.0	19.7	20.3	20.9	21.5	22.1	22.7	23.3	23.8	24.3	24.8	25.3	25.8	26.3
28.0	14.1	14.9	15.7	16.5	17.2	18.0	18.7	19.4	20.0	20.7	21.3	21.9	22.5	23.1	23.7	24.2	24.8	25.3	25.8	26.3	26.8
28.5	14.3	15.1	15.9	16.7	17.5	18.3	19.0	19.7	20.4	21.0	21.7	22.3	22.9	23.5	24.1	24.6	25.2	25.7	26.3	26.8	27.3
29.0	14.5	15.3	16.2	17.0	17.8	18.5	19.3	20.0	20.7	21.4	22.0	22.7	23.3	23.9	24.5	25.1	25.6	26.2	26.7	27.2	27.8
29.5	14.7	15.6	16.4	17.3	18.1	18.8	19.6	20.3	21.0	21.7	22.4	23.0	23.7	24.3	24.9	25.5	26.1	26.6	27.2	27.7	28.2
30.0	14.9	15.8	16.7	17.5	18.3	19.1	19.9	20.6	21.4	22.1	22.7	23.4	24.1	24.7	25.3	25.9	26.5	27.1	27.6	28.2	28.7
30.5	15.1	16.0	16.9	17.8	18.6	19.4	20.2	21.0	21.7	22.4	23.1	23.8	24.4	25.1	25.7	26.3	26.9	27.5	28.1	28.6	29.2
31.0	15.4	16.3	17.2	18.0	18.9	19.7	20.5	21.3	22.0	22.8	23.5	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.5	29.1	29.6
31.5	15.6	16.5	17.4	18.3	19.1	20.0	20.8	21.6	22.4	23.1	23.8	24.5	25.2	25.9	26.5	27.2	27.8	28.4	29.0	29.6	30.1
32.0	15.8	16.7	17.6	18.5	19.4	20.3	21.1	21.9	22.7	23.4	24.2	24.9	25.6	26.3	26.9	27.6	28.2	28.8	29.4	30.0	30.6
32.5	16.0	16.9	17.9	18.8	19.7	20.6	21.4	22.2	23.0	23.8	24.5	25.3	26.0	26.7	27.3	28.0	28.6	29.3	29.9	30.5	31.1
33.0	16.2	17.1	18.1	19.0	20.0	20.8	21.7	22.5	23.3	24.1	24.9	25.6	26.3	27.0	27.7	28.4	29.1	29.7	30.3	30.9	31.5
33.5	16.4	17.4	18.3	19.3	20.2	21.1	22.0	22.8	23.7	24.5	25.2	26.0	26.7	27.4	28.1	28.8	29.5	30.1	30.8	31.4	32.0
34.0	16.6	17.6	18.6	19.5	20.5	21.4	22.3	23.2	24.0	24.8	25.6	26.4	27.1	27.8	28.5	29.2	29.9	30.6	31.2	31.9	32.5
34.5	16.8	17.8	18.8	19.8	20.8	21.7	22.6	23.5	24.3	25.1	25.9	26.7	27.5	28.2	28.9	29.7	30.3	31.0	31.7	32.3	33.0
35.0	17.0	18.0	19.0	20.0	21.0	22.0	22.9	23.8	24.6	25.5	26.3	27.1	27.9	28.6	29.3	30.1	30.8	31.5	32.1	32.8	33.4
35.5	17.2	18.2	19.3	20.3	21.3	22.2	23.2	24.1	25.0	25.8	26.6	27.4	28.2	29.0	29.7	30.5	31.2	31.9	32.6	33.2	33.9
36.0	17.4	18.4	19.5	20.5	21.5	22.5	23.5	24.4	25.3	26.2	27.0	27.8	28.6	29.4	30.2	30.9	31.6	32.3	33.0	33.7	34.4
36.5	17.6	18.7	19.7	20.8	21.8	22.8	23.8	24.7	25.6	26.5	27.3	28.2	29.0	29.8	30.6	31.3	32.0	32.8	33.5	34.2	34.9
37.0	17.8	18.9	20.0	21.0	22.1	23.1	24.1	25.0	25.9	26.8	27.7	28.5	29.4	30.2	31.0	31.7	32.5	33.2	33.9	34.6	35.3
37.5	18.0	19.1	20.2	21.3	22.3	23.4	24.3	25.3	26.2	27.2	28.0	28.9	29.7	30.6	31.4	32.1	32.9	33.6	34.4	35.1	35.8
38.0	18.2	19.3	20.4	21.5	22.6	23.6	24.6	25.6	26.6	27.5	28.4	29.3	30.1	30.9	31.8	32.5	33.3	34.1	34.8	35.6	36.3
38.5	18.3	19.5	20.6	21.8	22.8	23.9	24.9	25.9	26.9	27.8	28.7	29.6	30.5	31.3	32.2	33.0	33.7	34.5	35.3	36.0	36.7
39.0	18.5	19.7	20.9	22.0	23.1	24.2	25.2	26.2	27.2	28.2	29.1	30.0	30.9	31.7	32.6	33.4	34.2	35.0	35.7	36.5	37.2
39.5	18.7	19.9	21.1	22.2	23.4	24.4	25.5	26.5	27.5	28.5	29.4	30.3	31.2	32.1	33.0	33.8	34.6	35.4	36.2	36.9	37.7
40.0	18.9	20.1	21.3	22.5	23.6	24.7	25.8	26.8	27.8	28.8	29.8	30.7	31.6	32.5	33.3	34.2	35.0	35.8	36.6	37.4	38.2
40.5	19.1	20.3	21.5	22.7	23.9	25.0	26.1	27.1	28.1	29.1	30.1	31.1	32.0	32.9	33.7	34.6	35.4	36.3	37.1	37.9	38.6
41.0	19.3	20.5	21.7	22.9	24.1	25.2	26.4	27.4	28.5	29.5	30.5	31.4	32.3	33.3	34.1	35.0	35.9	36.7	37.5	38.3	39.1
41.5	19.5	20.7	22.0	23.2	24.4	25.5	26.6	27.7	28.8	29.8	30.8	31.8	32.7	33.6	34.5	35.4	36.3	37.1	38.0	38.8	39.6
42.0	19.6	20.9	22.2	23.4	24.6	25.8	26.9	28.0	29.1	30.1	31.1	32.1	33.1	34.0	34.9	35.8	36.7	37.6	38.4	39.2	40.0
42.5	19.8	21.1	22.4	23.6	24.9	26.0	27.2	28.3	29.4	30.5	31.5	32.5	33.5	34.4	35.3	36.2	37.1	38.0	38.9	39.7	40.5
43.0	20.0	21.3	22.6	23.9	25.1	26.3	27.5	28.6	29.7	30.8	31.8	32.8	33.8	34.8	35.7	36.6	37.5	38.4	39.3	40.1	41.0
43.5	20.2	21.5	22.8	24.1	25.4	26.6	27.8	28.9	30.0	31.1	32.2	33.2	34.2	35.2	36.1	37.1	38.0	38.9	39.7	40.6	41.5
44.0	20.4	21.7	23.0	24.3	25.6	26.8	28.0	29.2	30.3	31.4	32.5	33.5	34.6	35.5	36.5	37.5	38.4	39.3	40.2	41.1	41.9
44.5	20.5	21.9	23.2	24.6	25.8	27.1	28.3	29.5	30.6	31.8	32.8	33.9	34.9	35.9	36.9	37.9	38.8	39.7	40.6	41.5	42.4
45.0	20.7	22.1	23.4	24.8	26.1	27.4	28.6	29.8	30.9	32.1	33.2	34.2	35.3	36.3	37.3	38.3	39.2	40.2	41.1	42.0	42.9
45.5	20.9	22.3	23.7	25.0	26.3	27.6	28.9	30.1	31.3	32.4	33.5	34.6	35.7	36.7	37.7	38.7	39.6	40.6	41.5	42.4	43.3
46.0	21.0	22.5	23.9	25.2	26.6	27.9	29.1	30.4	31.6	32.7	33.8	34.9	36.0	37.1	38.1	39.1	40.1	41.0	42.0	42.9	43.8
46.5	21.2	22.6	24.1	25.5	26.8	28.1	29.4	30.7	31.9	33.0	34.2	35.3	36.4	37.4	38.5	39.5	40.5	41.5	42.4	43.4	44.3
47.0	21.4	22.8	24.3	25.7	27.1	28.4	29.7	30.9	32.2	33.4	34.5	35.6	36.7	37.8	38.9	39.9	40.9	41.9	42.9	43.8	44.7
47.5	21.6	23.0	24.5	25.9	27.3	28.6	30.0	31.2	32.5	33.7	34.8	36.0	37.1	38.2	39.3	40.3	41.3	42.3	43.3	44.3	45.2
48.0	21.7	23.2	24.7	26.1	27.5	28.9	30.2	31.5	32.8	34.0	35.2	36.3	37.5	38.6	39.7	40.7	41.7	42.8	43.7	44.7	45.7
48.5	21.9	23.4	24.9	26.3	27.8	29.2	30.5	31.8	33.1	34.3	35.5	36.7	37.8	38.9	40.0	41.1	42.2	43.2	44.2	45.2	46.1
49.0	22.0	23.6	25.1	26.6	28.0	29.4	30.8	32.1	33.4	34.6	35.8	37.0	38.2	39.3	40.4	41.5	42.6	43.6	44.6	45.6	46.6
49.5	22.2	23.7	25.3	26.8	28.2	29.7	31.0	32.4	33.7	34.9	36.2	37.4	38.6	39.7	40.8	41.9	43.0	44.0	45.1	46.1	47.1
50.0	22.4	23.9	25.5	27.0	28.5	29.9	31.3	32.7	34.0	35.3	36.5	37.7	38.9	40.1	41.2	42.3	43.4	44.5	45.5	46.5	47.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR POND CYPRESS

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.0	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.8	4.8
5.5	3.3	3.5	3.6	3.7	3.8	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.2	5.3
6.0	3.6	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.7	5.8
6.5	3.9	4.0	4.2	4.3	4.5	4.6	4.7	4.9	5.0	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3
7.0	4.2	4.3	4.5	4.6	4.8	4.9	5.1	5.2	5.4	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.6	6.7	6.8
7.5	4.4	4.6	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.7	6.8	6.9	7.0	7.1	7.2
8.0	4.7	4.9	5.1	5.3	5.4	5.6	5.8	5.9	6.1	6.3	6.4	6.6	6.7	6.8	7.0	7.1	7.2	7.4	7.5	7.6	7.7
8.5	5.0	5.2	5.4	5.6	5.8	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	7.5	7.7	7.8	7.9	8.1	8.2
9.0	5.2	5.5	5.7	5.9	6.1	6.3	6.5	6.6	6.8	7.0	7.2	7.3	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.5	8.7
9.5	5.5	5.7	5.9	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.7	7.9	8.1	8.2	8.4	8.6	8.7	8.9	9.0	9.1
10.0	5.8	6.0	6.2	6.5	6.7	6.9	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.2	9.3	9.5	9.6
10.5	6.0	6.3	6.5	6.8	7.0	7.2	7.5	7.7	7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.4	9.6	9.8	9.9	10.1
11.0	6.3	6.5	6.8	7.0	7.3	7.5	7.8	8.0	8.2	8.5	8.7	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.2	10.4	10.6
11.5	6.5	6.8	7.1	7.3	7.6	7.9	8.1	8.4	8.6	8.8	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.1
12.0	6.8	7.0	7.3	7.6	7.9	8.2	8.4	8.7	8.9	9.2	9.4	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.1	11.3	11.5
12.5	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.0	9.3	9.5	9.8	10.0	10.3	10.5	10.7	11.0	11.2	11.4	11.6	11.8	12.0
13.0	7.2	7.5	7.9	8.2	8.5	8.8	9.1	9.4	9.6	9.9	10.2	10.4	10.7	10.9	11.2	11.4	11.6	11.8	12.1	12.3	12.5
13.5	7.5	7.8	8.1	8.4	8.8	9.1	9.4	9.7	10.0	10.3	10.5	10.8	11.1	11.3	11.6	11.8	12.0	12.3	12.5	12.7	13.0
14.0	7.7	8.0	8.4	8.7	9.1	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.4	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.4
14.5	7.9	8.3	8.6	9.0	9.3	9.7	10.0	10.3	10.6	11.0	11.3	11.5	11.8	12.1	12.4	12.7	12.9	13.2	13.4	13.7	13.9
15.0	8.1	8.5	8.9	9.3	9.6	10.0	10.3	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.3	13.6	13.9	14.1	14.4
15.5	8.4	8.7	9.1	9.5	9.9	10.3	10.6	11.0	11.3	11.6	12.0	12.3	12.6	12.9	13.2	13.5	13.8	14.1	14.3	14.6	14.9
16.0	8.6	9.0	9.4	9.8	10.2	10.6	10.9	11.3	11.6	12.0	12.3	12.7	13.0	13.3	13.6	13.9	14.2	14.5	14.8	15.1	15.3
16.5	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0	12.3	12.7	13.0	13.4	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8
17.0	9.0	9.4	9.9	10.3	10.7	11.1	11.5	11.9	12.3	12.7	13.0	13.4	13.7	14.1	14.4	14.7	15.1	15.4	15.7	16.0	16.3
17.5	9.2	9.6	10.1	10.5	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.1	14.5	14.8	15.2	15.5	15.8	16.1	16.4	16.7
18.0	9.4	9.9	10.3	10.8	11.2	11.7	12.1	12.5	12.9	13.3	13.7	14.1	14.5	14.9	15.2	15.6	15.9	16.2	16.6	16.9	17.2
18.5	9.6	10.1	10.6	11.0	11.5	12.0	12.4	12.8	13.3	13.7	14.1	14.5	14.9	15.2	15.6	16.0	16.3	16.7	17.0	17.4	17.7
19.0	9.8	10.3	10.8	11.3	11.8	12.2	12.7	13.1	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.4	16.8	17.1	17.5	17.8	18.2
19.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.4	13.9	14.3	14.8	15.2	15.6	16.0	16.4	16.8	17.2	17.5	17.9	18.3	18.6
20.0	10.2	10.7	11.2	11.7	12.3	12.8	13.3	13.7	14.2	14.7	15.1	15.5	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.7	19.1
20.5	10.4	10.9	11.4	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.4	15.9	16.3	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6
21.0	10.5	11.1	11.7	12.2	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.7	17.2	17.6	18.0	18.4	18.8	19.3	19.7	20.0
21.5	10.7	11.3	11.9	12.4	13.0	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.5	18.0	18.4	18.9	19.3	19.7	20.1	20.5
22.0	10.9	11.5	12.1	12.7	13.2	13.8	14.4	14.9	15.4	16.0	16.5	16.9	17.4	17.9	18.4	18.8	19.3	19.7	20.1	20.6	21.0
22.5	11.1	11.7	12.3	12.9	13.5	14.1	14.6	15.2	15.7	16.3	16.8	17.3	17.8	18.3	18.8	19.2	19.7	20.1	20.6	21.0	21.5
23.0	11.2	11.9	12.5	13.1	13.7	14.3	14.9	15.5	16.0	16.6	17.1	17.6	18.2	18.7	19.1	19.6	20.1	20.6	21.0	21.5	21.9
23.5	11.4	12.0	12.7	13.3	14.0	14.6	15.2	15.8	16.3	16.9	17.4	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	21.9	22.4
24.0	11.5	12.2	12.9	13.5	14.2	14.8	15.4	16.0	16.6	17.2	17.8	18.3	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9
24.5	11.7	12.4	13.1	13.7	14.4	15.1	15.7	16.3	16.9	17.5	18.1	18.7	19.2	19.8	20.3	20.8	21.3	21.8	22.3	22.8	23.3
25.0	11.9	12.6	13.3	14.0	14.6	15.3	16.0	16.6	17.2	17.8	18.4	19.0	19.6	20.1	20.7	21.2	21.7	22.3	22.8	23.3	23.8
25.5	12.0	12.7	13.4	14.2	14.9	15.5	16.2	16.9	17.5	18.1	18.7	19.3	19.9	20.5	21.1	21.6	22.2	22.7	23.2	23.7	24.3
26.0	12.2	12.9	13.6	14.4	15.1	15.8	16.5	17.1	17.8	18.4	19.1	19.7	20.3	20.9	21.4	22.0	22.6	23.1	23.7	24.2	24.7
26.5	12.3	13.1	13.8	14.6	15.3	16.0	16.7	17.4	18.1	18.7	19.4	20.0	20.6	21.2	21.8	22.4	23.0	23.5	24.1	24.6	25.2
27.0	12.4	13.2	14.0	14.8	15.5	16.2	17.0	17.7	18.4	19.0	19.7	20.3	21.0	21.6	22.2	22.8	23.4	24.0	24.5	25.1	25.6
27.5	12.6	13.4	14.2	14.9	15.7	16.5	17.2	17.9	18.6	19.3	20.0	20.7	21.3	21.9	22.6	23.2	23.8	24.4	25.0	25.5	26.1
28.0	12.7	13.5	14.3	15.1	15.9	16.7	17.5	18.2	18.9	19.6	20.3	21.0	21.7	22.3	22.9	23.6	24.2	24.8	25.4	26.0	26.6
28.5	12.8	13.7	14.5	15.3	16.1	16.9	17.7	18.4	19.2	19.9	20.6	21.3	22.0	22.7	23.3	24.0	24.6	25.2	25.8	26.4	27.0
29.0	13.0	13.8	14.7	15.5	16.3	17.1	17.9	18.7	19.5	20.2	20.9	21.6	22.3	23.0	23.7	24.4	25.0	25.6	26.3	26.9	27.5
29.5	13.1	14.0	14.8	15.7	16.5	17.4	18.2	19.0	19.7	20.5	21.2	22.0	22.7	23.4	24.1	24.7	25.4	26.1	26.7	27.3	28.0
30.0	13.2	14.1	15.0	15.9	16.7	17.6	18.4	19.2	20.0	20.8	21.5	22.3	23.0	23.7	24.4	25.1	25.8	26.5	27.1	27.8	28.4
30.5	13.3	14.2	15.1	16.0	16.9	17.8	18.6	19.5	20.3	21.1	21.8	22.6	23.3	24.1	24.8	25.5	26.2	26.9	27.6	28.2	28.9
31.0	13.4	14.4	15.3	16.2	17.1	18.0	18.9	19.7	20.5	21.3	22.1	22.9	23.7	24.4	25.2	25.9	26.6	27.3	28.0	28.7	29.4
31.5	13.6	14.5	15.4	16.4	17.3	18.2	19.1	19.9	20.8	21.6	22.4	23.2	24.0	24.8	25.5	26.3	27.0	27.7	28.4	29.1	29.8
32.0	13.7	14.6	15.6	16.5	17.5	18.4	19.3	20.2	21.1	21.9	22.7	23.5	24.3	25.1	25.9	26.7	27.4	28.1	28.9	29.6	30.3
32.5	13.8	14.7	15.7	16.7	17.7	18.6	19.5	20.4	21.3	22.2	23.0	23.9	24.7	25.5	26.3	27.0	27.8	28.5	29.3	30.0	30.7
33.0	13.9	14.9	15.9	16.9	17.8	18.8	19.7	20.7	21.6	22.5	23.3	24.2	25.0	25.8	26.6	27.4	28.2	29.0	29.7	30.5	31.2
33.5	14.0	15.0	16.0	17.0	18.0	19.0	20.0	20.9	21.8	22.7	23.6	24.5	25.3	26.2	27.0	27.8	28.6	29.4	30.1	30.9	31.7
34.0	14.1	15.1	16.1	17.2	18.2	19.2	20.2	21.1	22.1	23.0	23.9	24.8	25.6	26.5	27.3	28.2	29.0	29.8	30.6	31.4	32.1
34.5	14.1	15.2	16.3	17.3	18.4	19.4	20.4	21.4	22.3	23.3	24.2	25.1	26.0	26.8	27.7	28.5	29.4	30.2	31.0	31.8	32.6
35.0	14.2	15.3	16.4	17.5	18.5	19.6	20.6	21.6	22.6	23.5	24.5	25.4	26.3	27.2	28.1	28.9	29.8	30.6	31.4	32.2	33.0
35.5	14.3	15.4	16.5	17.6	18.7	19.8	20.8	21.8	22.8	23.8	24.8	25.7	26.6	27.5	28.4	29.3	30.2	31.0	31.8	32.7	33.5
36.0	14.4	15.5	16.6	17.8	18.9	19.9	21.0	22.0	23.1	24.1	25.0	26.0	26.9	27.9	28.8	29.7	30.5	31.4	32.3	33.1	34.0
36.5	14.5	15.6	16.8	17.9	19.0	20.1	21.2	22.3	23.3	24.3	25.3	26.3	27.2	28.2	29.1	30.0	30.9	31.8	32.7	33.6	34.4
37.0	14.5	15.7	16.9	18.0	19.2	20.3	21.4	22.5	23.5	24.6	25.6	26.6	27.6	28.5	29.5	30.4	31.3	32.2	33.1	34.0	34.9
37.5	14.6	15.8	17.0	18.2	19.3	20.5	21.6	22.7	23.8	24.8	25.9	26.9	27.9	28.9	29.8	30.8	31.7	32.6	33.5	34.4	35.3
38.0	14.7	15.9	17.1	18.3	19.5	20.7	21.8	22.9	24.0	25.1	26.1	27.2	28.2	29.2	30.2	31.1	32.1	33.0	34.0	34.9	35.8
38.5	14.7	16.0	17.2	18.4	19.6	20.8	22.0	23.1	24.2	25.3	26.4	27.5	28.5	29.5	30.5	31.5	32.5	33.4	34.4	35.3	36.2
39.0	14.8	16.1	17.3	18.6	19.8	21.0	22.2	23.3	24.5	25.6	26.7	27.7	28.8	29.8	30.9	31.9	32.9	33.8	34.8	35.8	36.7
39.5	14.9	16.1	17.4	18.7	19.9	21.2	22.4	23.5	24.7	25.8	26.9	28.0	29.1	30.2	31.2	32.2	33.2	34.2	35.2	36.2	37.2
40.0	14.9	16.2	17.5	18.8	20.1	21.3	22.5	23.7	24.9	26.1	27.2	28.3	29.4	30.5	31.6	32.6	33.6	34.6	35.6	36.6	37.6
40.5	15.0	16.3	17.6	18.9	20.2	21.5	22.7	23.9	25.1	26.3	27.5	28.6	29.7	30.8	31.9	33.0	34.0	35.0	36.1	37.1	38.1
41.0	15.0	16.3	17.7	19.0	20.3	21.6	22.9	24.1	25.4	26.6	27.7	28.9	30.0	31.1	32.2	33.3	34.4	35.4	36.5	37.5	38.5
41.5	15.1	16.4	17.8	19.1	20.5	21.8	23.1	24.3	25.6	26.8	28.0	29.2	30.3	31.5	32.6	33.7	34.8	35.8	36.9	37.9	39.0
42.0	15.1	16.5	17.9	19.3	20.6	21.9	23.3	24.5	25.8	27.0	28.3	29.4	30.6	31.8	32.9	34.0	35.1	36.2	37.3	38.4	39.4
42.5	15.1	16.5	18.0	19.4	20.7	22.1	23.4	24.7	26.0	27.3	28.5	29.7	30.9	32.1	33.3	34.4	35.5	36.6	37.7	38.8	39.9
43.0	15.2	16.6	18.0	19.5	20.9	22.2	23.6	24.9	26.2	27.5	28.8	30.0	31.2	32.4	33.6	34.8	35.9	37.0	38.1	39.2	40.3
43.5	15.2	16.6	18.1	19.6	21.0	22.4	23.8	25.1	26.4	27.7	29.0	30.3	31.5	32.7	33.9	35.1	36.3	37.4	38.6	39.7	40.8
44.0	15.2	16.7	18.2	19.7	21.1	22.5	23.9	25.3	26.6	28.0	29.3	30.5	31.8	33.0	34.3	35.5	36.6	37.8	39.0	40.1	41.2
44.5	15.2	16.7	18.2	19.7	21.2	22.7	24.1	25.5	26.9	28.2	29.5	30.8	32.1	33.4	34.6	35.8	37.0	38.2	39.4	40.5	41.7
45.0	15.3	16.8	18.3	19.8	21.3	22.8	24.2	25.7	27.1	28.4	29.8	31.1	32.4	33.7	34.9	36.2	37.4	38.6	39.8	41.0	42.1
45.5	15.3	16.8	18.4	19.9	21.4	22.9	24.4	25.8	27.3	28.6	30.0	31.4	32.7	34.0	35.3	36.5	37.8	39.0	40.2	41.4	42.6
46.0	15.3	16.9	18.4	20.0	21.5	23.1	24.6	26.0	27.5	28.9	30.3	31.6	33.0	34.3	35.6	36.9	38.1	39.4	40.6	41.8	43.0
46.5	15.3	16.9	18.5	20.1	21.7	23.2	24.7	26.2	27.7	29.1	30.5	31.9	33.2	34.6	35.9	37.2	38.5	39.8	41.0	42.3	43.5
47.0	15.3	16.9	18.5	20.2	21.8	23.3	24.9	26.4	27.8	29.3	30.7	32.1	33.5	34.9	36.2	37.6	38.9	40.2	41.4	42.7	43.9
47.5	15.3	16.9	18.6	20.2	21.9	23.4	25.0	26.5	28.0	29.5	31.0	32.4	33.8	35.2	36.6	37.9	39.2	40.5	41.8	43.1	44.4
48.0	15.3	17.0	18.6	20.3	22.0	23.6	25.1	26.7	28.2	29.7	31.2	32.7	34.1	35.5	36.9	38.2	39.6	40.9	42.2	43.6	44.8
48.5	15.3	17.0	18.7	20.4	22.0	23.7	25.3	26.9	28.4	29.9	31.4	32.9	34.4	35.8	37.2	38.6	40.0	41.3	42.7	44.0	45.3
49.0	15.3	17.0	18.7	20.4	22.1	23.8	25.4	27.0	28.6	30.2	31.7	33.2	34.6	36.1	37.5	38.9	40.3	41.7	43.1	44.4	45.7
49.5	15.3	17.0	18.8	20.5	22.2	23.9	25.6	27.2	28.8	30.4	31.9	33.4	34.9	36.4	37.8	39.3	40.7	42.1	43.5	44.8	46.2
50.0	15.3	17.0	18.8	20.6	22.3	24.0	25.7	27.3	29.0	30.6	32.1	33.7	35.2	36.7	38.2	39.6	41.1	42.5	43.9	45.3	46.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR HEMLOCK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.7	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.8	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4
7.0	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.5	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.9	6.2	6.4	6.5	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9
8.5	6.3	6.6	6.8	7.0	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.7	6.9	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.9
9.5	7.1	7.3	7.6	7.8	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3	9.4
10.0	7.4	7.7	8.0	8.2	8.4	8.5	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.8	8.1	8.4	8.6	8.8	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	9.9	10.0	10.1	10.2	10.2	10.3	10.4
11.0	8.2	8.5	8.8	9.0	9.2	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.9
11.5	8.5	8.9	9.2	9.4	9.6	9.8	10.0	10.1	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3
12.0	8.9	9.3	9.6	9.8	10.0	10.2	10.4	10.6	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.5	11.6	11.7	11.8	11.8
12.5	9.3	9.6	9.9	10.2	10.4	10.6	10.8	11.0	11.1	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3
13.0	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.4	11.6	11.7	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.8
13.5	10.0	10.4	10.7	11.0	11.3	11.5	11.7	11.9	12.0	12.2	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3
14.0	10.4	10.8	11.1	11.4	11.7	11.9	12.1	12.3	12.5	12.6	12.8	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.6	13.7	13.8
14.5	10.7	11.2	11.5	11.8	12.1	12.3	12.6	12.7	12.9	13.1	13.2	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	11.1	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.5	13.7	13.8	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8
15.5	11.5	11.9	12.3	12.7	12.9	13.2	13.4	13.6	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3
16.0	11.9	12.3	12.7	13.1	13.4	13.6	13.8	14.1	14.3	14.4	14.6	14.8	14.9	15.0	15.2	15.3	15.4	15.5	15.6	15.7	15.8
16.5	12.2	12.7	13.1	13.5	13.8	14.0	14.3	14.5	14.7	14.9	15.1	15.2	15.4	15.5	15.6	15.7	15.9	16.0	16.1	16.2	16.3
17.0	12.6	13.1	13.5	13.9	14.2	14.5	14.7	14.9	15.1	15.3	15.5	15.7	15.8	16.0	16.1	16.2	16.3	16.5	16.6	16.7	16.8
17.5	13.0	13.5	13.9	14.3	14.6	14.9	15.1	15.4	15.6	15.8	16.0	16.1	16.3	16.4	16.5	16.7	16.8	16.9	17.1	17.2	17.3
18.0	13.3	13.9	14.3	14.7	15.0	15.3	15.6	15.8	16.0	16.2	16.4	16.6	16.8	16.9	17.0	17.2	17.3	17.4	17.5	17.7	17.8
18.5	13.7	14.2	14.7	15.1	15.4	15.7	16.0	16.3	16.5	16.7	16.9	17.0	17.2	17.4	17.5	17.7	17.8	17.9	18.0	18.1	18.2
19.0	14.1	14.6	15.1	15.5	15.8	16.2	16.4	16.7	16.9	17.1	17.3	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.5	18.6	18.7
19.5	14.4	15.0	15.5	15.9	16.3	16.6	16.9	17.1	17.4	17.6	17.8	18.0	18.1	18.3	18.5	18.6	18.7	18.9	19.0	19.1	19.2
20.0	14.8	15.4	15.9	16.3	16.7	17.0	17.3	17.6	17.8	18.0	18.2	18.4	18.6	18.8	18.9	19.1	19.2	19.4	19.5	19.6	19.7
20.5	15.2	15.8	16.3	16.7	17.1	17.4	17.7	18.0	18.3	18.5	18.7	18.9	19.1	19.2	19.4	19.6	19.7	19.8	20.0	20.1	20.2
21.0	15.5	16.2	16.7	17.1	17.5	17.9	18.2	18.4	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.0	20.2	20.3	20.5	20.6	20.7
21.5	15.9	16.5	17.1	17.5	17.9	18.3	18.6	18.9	19.1	19.4	19.6	19.8	20.0	20.2	20.4	20.5	20.7	20.8	20.9	21.1	21.2
22.0	16.3	16.9	17.5	17.9	18.3	18.7	19.0	19.3	19.6	19.8	20.1	20.3	20.5	20.6	20.8	21.0	21.1	21.3	21.4	21.6	21.7
22.5	16.6	17.3	17.9	18.3	18.8	19.1	19.5	19.8	20.0	20.3	20.5	20.7	20.9	21.1	21.3	21.5	21.6	21.8	21.9	22.1	22.2
23.0	17.0	17.7	18.3	18.7	19.2	19.5	19.9	20.2	20.5	20.7	21.0	21.2	21.4	21.6	21.8	21.9	22.1	22.3	22.4	22.6	22.7
23.5	17.4	18.1	18.6	19.1	19.6	20.0	20.3	20.6	20.9	21.2	21.4	21.6	21.9	22.1	22.2	22.4	22.6	22.7	22.9	23.0	23.2
24.0	17.7	18.4	19.0	19.6	20.0	20.4	20.7	21.1	21.4	21.6	21.9	22.1	22.3	22.5	22.7	22.9	23.1	23.2	23.4	23.5	23.7
24.5	18.1	18.8	19.4	20.0	20.4	20.8	21.2	21.5	21.8	22.1	22.3	22.6	22.8	23.0	23.2	23.4	23.5	23.7	23.9	24.0	24.2
25.0	18.5	19.2	19.8	20.4	20.8	21.2	21.6	21.9	22.2	22.5	22.8	23.0	23.2	23.5	23.7	23.8	24.0	24.2	24.4	24.5	24.7
25.5	18.8	19.6	20.2	20.8	21.2	21.7	22.0	22.4	22.7	23.0	23.2	23.5	23.7	23.9	24.1	24.3	24.5	24.7	24.8	25.0	25.2
26.0	19.2	20.0	20.6	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.7	23.9	24.2	24.4	24.6	24.8	25.0	25.2	25.3	25.5	25.6
26.5	19.6	20.4	21.0	21.6	22.1	22.5	22.9	23.2	23.6	23.9	24.1	24.4	24.6	24.9	25.1	25.3	25.5	25.6	25.8	26.0	26.1
27.0	19.9	20.7	21.4	22.0	22.5	22.9	23.3	23.7	24.0	24.3	24.6	24.9	25.1	25.3	25.5	25.7	25.9	26.1	26.3	26.5	26.6
27.5	20.3	21.1	21.8	22.4	22.9	23.3	23.8	24.1	24.5	24.8	25.0	25.3	25.6	25.8	26.0	26.2	26.4	26.6	26.8	27.0	27.1
28.0	20.7	21.5	22.2	22.8	23.3	23.8	24.2	24.6	24.9	25.2	25.5	25.8	26.0	26.3	26.5	26.7	26.9	27.1	27.3	27.4	27.6
28.5	21.0	21.9	22.6	23.2	23.7	24.2	24.6	25.0	25.3	25.7	26.0	26.2	26.5	26.7	27.0	27.2	27.4	27.6	27.8	27.9	28.1
29.0	21.4	22.3	23.0	23.6	24.1	24.6	25.0	25.4	25.8	26.1	26.4	26.7	27.0	27.2	27.4	27.7	27.9	28.1	28.2	28.4	28.6
29.5	21.8	22.6	23.4	24.0	24.5	25.0	25.5	25.9	26.2	26.6	26.9	27.2	27.4	27.7	27.9	28.1	28.3	28.5	28.7	28.9	29.1
30.0	22.1	23.0	23.8	24.4	25.0	25.5	25.9	26.3	26.7	27.0	27.3	27.6	27.9	28.1	28.4	28.6	28.8	29.0	29.2	29.4	29.6
30.5	22.5	23.4	24.2	24.8	25.4	25.9	26.3	26.7	27.1	27.5	27.8	28.1	28.3	28.6	28.8	29.1	29.3	29.5	29.7	29.9	30.1
31.0	22.9	23.8	24.6	25.2	25.8	26.3	26.8	27.2	27.6	27.9	28.2	28.5	28.8	29.1	29.3	29.6	29.8	30.0	30.2	30.4	30.6
31.5	23.2	24.2	24.9	25.6	26.2	26.7	27.2	27.6	28.0	28.3	28.7	29.0	29.3	29.5	29.8	30.0	30.3	30.5	30.7	30.9	31.1
32.0	23.6	24.5	25.3	26.0	26.6	27.1	27.6	28.0	28.4	28.8	29.1	29.4	29.7	30.0	30.3	30.5	30.7	31.0	31.2	31.4	31.6
32.5	24.0	24.9	25.7	26.4	27.0	27.6	28.0	28.5	28.9	29.2	29.6	29.9	30.2	30.5	30.7	31.0	31.2	31.4	31.7	31.9	32.0
33.0	24.3	25.3	26.1	26.8	27.4	28.0	28.5	28.9	29.3	29.7	30.0	30.4	30.7	30.9	31.2	31.5	31.7	31.9	32.1	32.3	32.5
33.5	24.7	25.7	26.5	27.2	27.9	28.4	28.9	29.4	29.9	30.1	30.5	30.8	31.1	31.4	31.7	31.9	32.2	32.4	32.6	32.8	33.0
34.0	25.0	26.1	26.9	27.6	28.3	28.8	29.3	29.8	30.2	30.6	30.9	31.3	31.6	31.9	32.1	32.4	32.7	32.9	33.1	33.3	33.5
34.5	25.4	26.4	27.3	28.0	28.7	29.2	29.8	30.2	30.6	31.0	31.4	31.7	32.0	32.3	32.6	32.9	33.1	33.4	33.6	33.8	34.0
35.0	25.8	26.8	27.7	28.4	29.1	29.7	30.2	30.7	31.1	31.5	31.8	32.2	32.5	32.8	33.1	33.4	33.6	33.9	34.1	34.3	34.5
35.5	26.1	27.2	28.1	28.8	29.5	30.1	30.6	31.1	31.5	31.9	32.3	32.6	33.0	33.3	33.6	33.8	34.1	34.3	34.6	34.8	35.0
36.0	26.5	27.6	28.5	29.2	29.9	30.5	31.0	31.5	32.0	32.4	32.8	33.1	33.4	33.7	34.0	34.3	34.6	34.8	35.1	35.3	35.5
36.5	26.9	28.0	28.9	29.6	30.3	30.9	31.5	32.0	32.4	32.8	33.2	33.6	33.9	34.2	34.5	34.8	35.0	35.3	35.5	35.8	36.0
37.0	27.2	28.3	29.3	30.0	30.7	31.4	31.9	32.4	32.9	33.3	33.7	34.0	34.4	34.7	35.0	35.3	35.5	35.8	36.0	36.3	36.5
37.5	27.6	28.7	29.7	30.5	31.2	31.8	32.3	32.8	33.3	33.7	34.1	34.5	34.8	35.1	35.4	35.7	36.0	36.3	36.5	36.7	37.0
38.0	28.0	29.1	30.0	30.9	31.6	32.2	32.8	33.3	33.7	34.2	34.6	34.9	35.3	35.6	35.9	36.2	36.5	36.7	37.0	37.2	37.5
38.5	28.3	29.5	30.4	31.3	32.0	32.6	33.2	33.7	34.2	34.6	35.0	35.4	35.7	36.1	36.4	36.7	37.0	37.2	37.5	37.7	38.0
39.0	28.7	29.9	30.8	31.7	32.4	33.0	33.6	34.1	34.6	35.1	35.5	35.9	36.2	36.5	36.9	37.2	37.4	37.7	38.0	38.2	38.5
39.5	29.0	30.2	31.2	32.1	32.8	33.5	34.0	34.6	35.1	35.5	35.9	36.3	36.7	37.0	37.3	37.6	37.9	38.2	38.5	38.7	38.9
40.0	29.4	30.6	31.6	32.5	33.2	33.9	34.5	35.0	35.5	36.0	36.4	36.8	37.1	37.5	37.8	38.1	38.4	38.7	38.9	39.2	39.4
40.5	29.8	31.0	32.0	32.9	33.6	34.3	34.9	35.4	35.9	36.4	36.8	37.2	37.6	37.9	38.3	38.6	38.9	39.2	39.4	39.7	39.9
41.0	30.1	31.4	32.4	33.3	34.0	34.7	35.3	35.9	36.4	36.8	37.3	37.7	38.1	38.4	38.7	39.1	39.4	39.6	39.9	40.2	40.4
41.5	30.5	31.7	32.8	33.7	34.4	35.1	35.7	36.3	36.8	37.3	37.7	38.1	38.5	38.9	39.2	39.5	39.8	40.1	40.4	40.7	40.9
42.0	30.9	32.1	33.2	34.1	34.9	35.6	36.2	36.7	37.3	37.7	38.2	38.6	39.0	39.3	39.7	40.0	40.3	40.6	40.9	41.2	41.4
42.5	31.2	32.5	33.6	34.5	35.3	36.0	36.6	37.2	37.7	38.2	38.6	39.1	39.4	39.8	40.2	40.5	40.8	41.1	41.4	41.6	41.9
43.0	31.6	32.9	34.0	34.9	35.7	36.4	37.0	37.6	38.1	38.6	39.1	39.5	39.9	40.3	40.6	41.0	41.3	41.6	41.9	42.1	42.4
43.5	31.9	33.3	34.3	35.3	36.1	36.8	37.5	38.0	38.6	39.1	39.5	40.0	40.4	40.7	41.1	41.4	41.8	42.1	42.3	42.6	42.9
44.0	32.3	33.6	34.7	35.7	36.5	37.2	37.9	38.5	39.0	39.5	40.0	40.4	40.8	41.2	41.6	41.9	42.2	42.5	42.8	43.1	43.4
44.5	32.7	34.0	35.1	36.1	36.9	37.6	38.3	38.9	39.5	40.0	40.4	40.9	41.3	41.7	42.0	42.4	42.7	43.0	43.3	43.6	43.9
45.0	33.0	34.4	35.5	36.5	37.3	38.1	38.7	39.3	39.9	40.4	40.9	41.3	41.7	42.1	42.5	42.9	43.2	43.5	43.8	44.1	44.4
45.5	33.4	34.8	35.9	36.9	37.7	38.5	39.2	39.8	40.3	40.9	41.3	41.8	42.2	42.6	43.0	43.3	43.7	44.0	44.3	44.6	44.9
46.0	33.8	35.1	36.3	37.3	38.1	38.9	39.6	40.2	40.8	41.3	41.8	42.2	42.7	43.1	43.4	43.8	44.1	44.5	44.8	45.1	45.3
46.5	34.1	35.5	36.7	37.7	38.5	39.3	40.0	40.6	41.2	41.8	42.2	42.7	43.1	43.5	43.9	44.3	44.6	44.9	45.3	45.6	45.8
47.0	34.5	35.9	37.1	38.1	39.0	39.7	40.4	41.1	41.7	42.2	42.7	43.2	43.6	44.0	44.4	44.8	45.1	45.4	45.7	46.0	46.3
47.5	34.8	36.3	37.5	38.5	39.4	40.2	40.9	41.5	42.1	42.6	43.1	43.6	44.1	44.5	44.9	45.2	45.6	45.9	46.2	46.5	46.8
48.0	35.2	36.6	37.8	38.9	39.8	40.6	41.3	41.9	42.5	43.1	43.6	44.1	44.5	44.9	45.3	45.7	46.1	46.4	46.7	47.0	47.3
48.5	35.6	37.0	38.2	39.3	40.2	41.0	41.7	42.4	43.0	43.5	44.1	44.5	45.0	45.4	45.8	46.2	46.5	46.9	47.2	47.5	47.8
49.0	35.9	37.4	38.6	39.7	40.6	41.4	42.1	42.8	43.4	44.0	44.5	45.0	45.4	45.9	46.3	46.6	47.0	47.4	47.7	48.0	48.3
49.5	36.3	37.8	39.0	40.1	41.0	41.8	42.6	43.2	43.9	44.4	45.0	45.4	45.9	46.3	46.7	47.1	47.5	47.8	48.2	48.5	48.8
50.0	36.6	38.2	39.4	40.5	41.4	42.3	43.0	43.7	44.3	44.9	45.4	45.9	46.4	46.8	47.2	47.6	48.0	48.3	48.7	49.0	49.3

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR RED MAPLE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.7	3.8	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.8	4.0	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.1	4.4	4.6	4.8	4.9	5.1	5.2	5.3	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9
6.5	4.4	4.7	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	4.8	5.1	5.3	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9
7.5	5.1	5.4	5.7	5.9	6.1	6.3	6.4	6.6	6.7	6.8	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.4	5.8	6.1	6.3	6.5	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	5.8	6.2	6.5	6.7	6.9	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.4	8.4
9.0	6.1	6.5	6.8	7.1	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.9
9.5	6.4	6.9	7.2	7.5	7.7	7.9	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3	9.4
10.0	6.7	7.2	7.6	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.9
10.5	7.1	7.6	7.9	8.3	8.5	8.7	8.9	9.1	9.3	9.4	9.5	9.7	9.8	9.9	9.9	10.0	10.1	10.2	10.2	10.3	10.4
11.0	7.4	7.9	8.3	8.6	8.9	9.2	9.4	9.5	9.7	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.9
11.5	7.7	8.2	8.7	9.0	9.3	9.6	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3
12.0	8.0	8.6	9.0	9.4	9.7	10.0	10.2	10.4	10.6	10.7	10.9	11.0	11.1	11.2	11.4	11.4	11.5	11.6	11.7	11.8	11.8
12.5	8.4	8.9	9.4	9.8	10.1	10.4	10.6	10.8	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3
13.0	8.7	9.3	9.8	10.1	10.5	10.8	11.0	11.2	11.4	11.6	11.8	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8
13.5	9.0	9.6	10.1	10.5	10.9	11.2	11.4	11.7	11.9	12.0	12.2	12.4	12.5	12.6	12.8	12.9	13.0	13.1	13.2	13.2	13.3
14.0	9.3	10.0	10.5	10.9	11.3	11.6	11.8	12.1	12.3	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8
14.5	9.6	10.3	10.8	11.3	11.6	12.0	12.2	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	9.9	10.6	11.2	11.6	12.0	12.4	12.7	12.9	13.1	13.4	13.5	13.7	13.9	14.0	14.1	14.3	14.4	14.5	14.6	14.7	14.8
15.5	10.2	11.0	11.5	12.0	12.4	12.8	13.1	13.3	13.6	13.8	14.0	14.2	14.3	14.5	14.6	14.7	14.9	15.0	15.1	15.2	15.3
16.0	10.6	11.3	11.9	12.4	12.8	13.2	13.5	13.7	14.0	14.2	14.4	14.6	14.8	14.9	15.1	15.2	15.3	15.5	15.6	15.7	15.8
16.5	10.9	11.6	12.2	12.8	13.2	13.6	13.9	14.2	14.4	14.6	14.9	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.2	16.3
17.0	11.2	12.0	12.6	13.1	13.6	13.9	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.5	16.6	16.8
17.5	11.5	12.3	12.9	13.5	13.9	14.3	14.7	15.0	15.3	15.5	15.7	15.9	16.1	16.3	16.5	16.6	16.8	16.9	17.0	17.1	17.2
18.0	11.8	12.6	13.3	13.9	14.3	14.7	15.1	15.4	15.7	15.9	16.2	16.4	16.6	16.8	16.9	17.1	17.2	17.4	17.5	17.6	17.7
18.5	12.1	13.0	13.6	14.2	14.7	15.1	15.5	15.8	16.1	16.4	16.6	16.8	17.0	17.2	17.4	17.5	17.7	17.8	18.0	18.1	18.2
19.0	12.4	13.3	14.0	14.6	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	17.5	17.7	17.8	18.0	18.2	18.3	18.5	18.6	18.7
19.5	12.7	13.6	14.3	14.9	15.5	15.9	16.3	16.6	16.9	17.2	17.5	17.7	17.9	18.1	18.3	18.5	18.6	18.8	18.9	19.1	19.2
20.0	13.0	13.9	14.7	15.3	15.8	16.3	16.7	17.0	17.4	17.7	17.9	18.2	18.4	18.6	18.8	18.9	19.1	19.3	19.4	19.6	19.7
20.5	13.3	14.3	15.0	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.2	19.4	19.6	19.7	19.9	20.0	20.2
21.0	13.6	14.6	15.4	16.0	16.6	17.1	17.5	17.9	18.2	18.5	18.8	19.0	19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.7
21.5	13.9	14.9	15.7	16.4	17.0	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.7	19.9	20.1	20.3	20.5	20.7	20.9	21.0	21.2
22.0	14.2	15.2	16.1	16.7	17.3	17.8	18.3	18.7	19.0	19.3	19.6	19.9	20.2	20.4	20.6	20.8	21.0	21.2	21.3	21.5	21.6
22.5	14.5	15.5	16.4	17.1	17.7	18.2	18.7	19.1	19.4	19.8	20.1	20.3	20.6	20.8	21.1	21.3	21.5	21.6	21.8	22.0	22.1
23.0	14.8	15.9	16.7	17.5	18.1	18.6	19.1	19.5	19.9	20.2	20.5	20.8	21.0	21.3	21.5	21.7	21.9	22.1	22.3	22.5	22.6
23.5	15.1	16.2	17.1	17.8	18.4	19.0	19.5	19.9	20.3	20.6	20.9	21.2	21.5	21.7	22.0	22.2	22.4	22.6	22.8	22.9	23.1
24.0	15.4	16.5	17.4	18.2	18.8	19.4	19.9	20.3	20.7	21.0	21.4	21.7	21.9	22.2	22.4	22.7	22.9	23.1	23.3	23.4	23.6
24.5	15.6	16.8	17.7	18.5	19.2	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.4	22.6	22.9	23.1	23.3	23.5	23.7	23.9	24.1
25.0	15.9	17.1	18.1	18.9	19.5	20.1	20.6	21.1	21.5	21.9	22.2	22.5	22.8	23.1	23.3	23.6	23.8	24.0	24.2	24.4	24.6
25.5	16.2	17.4	18.4	19.2	19.9	20.5	21.0	21.5	21.9	22.3	22.6	23.0	23.3	23.5	23.8	24.0	24.3	24.5	24.7	24.9	25.1
26.0	16.5	17.7	18.7	19.6	20.3	20.9	21.4	21.9	22.3	22.7	23.1	23.4	23.7	24.0	24.2	24.5	24.7	25.0	25.2	25.4	25.6
26.5	16.8	18.1	19.1	19.9	20.6	21.3	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.7	25.0	25.2	25.4	25.6	25.8	26.0
27.0	17.1	18.4	19.4	20.3	21.0	21.6	22.2	22.7	23.1	23.5	23.9	24.3	24.6	24.9	25.2	25.4	25.7	25.9	26.1	26.3	26.5
27.5	17.4	18.7	19.7	20.6	21.4	22.0	22.6	23.1	23.5	24.0	24.3	24.7	25.0	25.3	25.6	25.9	26.1	26.4	26.6	26.8	27.0
28.0	17.6	19.0	20.1	20.9	21.7	22.4	23.0	23.5	23.9	24.4	24.8	25.1	25.5	25.8	26.1	26.3	26.6	26.8	27.1	27.3	27.5
28.5	17.9	19.3	20.4	21.3	22.1	22.7	23.3	23.9	24.4	24.8	25.2	25.6	25.9	26.2	26.5	26.8	27.1	27.3	27.5	27.8	28.0
29.0	18.2	19.6	20.7	21.6	22.4	23.1	23.7	24.3	24.8	25.2	25.6	26.0	26.3	26.7	27.0	27.3	27.5	27.8	28.0	28.3	28.5
29.5	18.5	19.9	21.0	22.0	22.8	23.5	24.1	24.7	25.2	25.6	26.0	26.4	26.8	27.1	27.4	27.7	28.0	28.3	28.5	28.7	29.0
30.0	18.7	20.2	21.3	22.3	23.1	23.9	24.5	25.1	25.6	26.0	26.5	26.8	27.2	27.5	27.9	28.2	28.5	28.7	29.0	29.2	29.5
30.5	19.0	20.5	21.7	22.7	23.5	24.2	24.9	25.4	26.0	26.4	26.9	27.3	27.6	28.0	28.3	28.6	28.9	29.2	29.5	29.7	29.9
31.0	19.3	20.8	22.0	23.0	23.8	24.6	25.2	25.8	26.4	26.8	27.3	27.7	28.1	28.4	28.8	29.1	29.4	29.7	29.9	30.2	30.4
31.5	19.6	21.1	22.3	23.3	24.2	25.0	25.6	26.2	26.8	27.3	27.7	28.1	28.5	28.9	29.2	29.5	29.8	30.1	30.4	30.7	30.9
32.0	19.8	21.4	22.6	23.7	24.6	25.3	26.0	26.6	27.2	27.7	28.1	28.6	28.9	29.3	29.7	30.0	30.3	30.6	30.9	31.1	31.4
32.5	20.1	21.7	22.9	24.0	24.9	25.7	26.4	27.0	27.6	28.1	28.5	29.0	29.4	29.8	30.1	30.4	30.8	31.1	31.4	31.6	31.9
33.0	20.4	22.0	23.3	24.3	25.3	26.1	26.8	27.4	28.0	28.5	29.0	29.4	29.8	30.2	30.6	30.9	31.2	31.5	31.8	32.1	32.4
33.5	20.6	22.3	23.6	24.7	25.6	26.4	27.1	27.8	28.4	28.9	29.4	29.8	30.2	30.6	31.0	31.4	31.7	32.0	32.3	32.6	32.9
34.0	20.9	22.6	23.9	25.0	25.9	26.8	27.5	28.2	28.8	29.3	29.8	30.2	30.7	31.1	31.5	31.8	32.1	32.5	32.8	33.1	33.3
34.5	21.2	22.8	24.2	25.3	26.3	27.1	27.9	28.5	29.1	29.7	30.2	30.7	31.1	31.5	31.9	32.3	32.6	32.9	33.2	33.5	33.8
35.0	21.4	23.1	24.5	25.7	26.6	27.5	28.3	28.9	29.5	30.1	30.6	31.1	31.5	32.0	32.3	32.7	33.1	33.4	33.7	34.0	34.3
35.5	21.7	23.4	24.8	26.0	27.0	27.9	28.6	29.3	29.9	30.5	31.0	31.5	32.0	32.4	32.8	33.2	33.5	33.9	34.2	34.5	34.8
36.0	22.0	23.7	25.1	26.3	27.3	28.2	29.0	29.7	30.3	30.9	31.4	31.9	32.4	32.8	33.2	33.6	34.0	34.3	34.7	35.0	35.3
36.5	22.2	24.0	25.4	26.6	27.7	28.6	29.4	30.1	30.7	31.3	31.9	32.4	32.8	33.3	33.7	34.1	34.4	34.8	35.1	35.5	35.8
37.0	22.5	24.3	25.7	27.0	28.0	28.9	29.7	30.5	31.1	31.7	32.3	32.8	33.3	33.7	34.1	34.5	34.9	35.3	35.6	35.9	36.3
37.5	22.7	24.6	26.0	27.3	28.3	29.3	30.1	30.8	31.5	32.1	32.7	33.2	33.7	34.1	34.6	35.0	35.4	35.7	36.1	36.4	36.7
38.0	23.0	24.8	26.3	27.6	28.7	29.6	30.5	31.2	31.9	32.5	33.1	33.6	34.1	34.6	35.0	35.4	35.8	36.2	36.6	36.9	37.2
38.5	23.2	25.1	26.7	27.9	29.0	30.0	30.8	31.6	32.3	32.9	33.5	34.0	34.5	35.0	35.5	35.9	36.3	36.7	37.0	37.4	37.7
39.0	23.5	25.4	27.0	28.3	29.4	30.3	31.2	32.0	32.7	33.3	33.9	34.4	35.0	35.4	35.9	36.3	36.7	37.1	37.5	37.9	38.2
39.5	23.7	25.7	27.3	28.6	29.7	30.7	31.6	32.3	33.1	33.7	34.3	34.9	35.4	35.9	36.3	36.8	37.2	37.6	38.0	38.3	38.7
40.0	24.0	26.0	27.6	28.9	30.0	31.0	31.9	32.7	33.4	34.1	34.7	35.3	35.8	36.3	36.8	37.2	37.6	38.0	38.4	38.8	39.2
40.5	24.2	26.2	27.9	29.2	30.4	31.4	32.3	33.1	33.8	34.5	35.1	35.7	36.2	36.7	37.2	37.7	38.1	38.5	38.9	39.3	39.6
41.0	24.5	26.5	28.1	29.5	30.7	31.7	32.6	33.5	34.2	34.9	35.5	36.1	36.7	37.2	37.7	38.1	38.6	39.0	39.4	39.8	40.1
41.5	24.7	26.8	28.4	29.8	31.0	32.1	33.0	33.8	34.6	35.3	35.9	36.5	37.1	37.6	38.1	38.6	39.0	39.4	39.8	40.2	40.6
42.0	25.0	27.1	28.7	30.2	31.4	32.4	33.4	34.2	35.0	35.7	36.3	36.9	37.5	38.0	38.5	39.0	39.5	39.9	40.3	40.7	41.1
42.5	25.2	27.3	29.0	30.5	31.7	32.8	33.7	34.6	35.4	36.1	36.7	37.4	37.9	38.5	39.0	39.5	39.9	40.4	40.8	41.2	41.6
43.0	25.5	27.6	29.3	30.8	32.0	33.1	34.1	35.0	35.7	36.5	37.1	37.8	38.3	38.9	39.4	39.9	40.4	40.8	41.3	41.7	42.1
43.5	25.7	27.9	29.6	31.1	32.3	33.5	34.4	35.3	36.1	36.9	37.5	38.2	38.8	39.3	39.9	40.4	40.8	41.3	41.7	42.1	42.5
44.0	26.0	28.1	29.9	31.4	32.7	33.8	34.8	35.7	36.5	37.3	37.9	38.6	39.2	39.8	40.3	40.8	41.3	41.7	42.2	42.6	43.0
44.5	26.2	28.4	30.2	31.7	33.0	34.1	35.1	36.1	36.9	37.6	38.3	39.0	39.6	40.2	40.7	41.2	41.7	42.2	42.7	43.1	43.5
45.0	26.4	28.7	30.5	32.0	33.3	34.5	35.5	36.4	37.3	38.0	38.7	39.4	40.0	40.6	41.2	41.7	42.2	42.7	43.1	43.6	44.0
45.5	26.7	28.9	30.8	32.3	33.6	34.8	35.9	36.8	37.6	38.4	39.1	39.8	40.4	41.0	41.6	42.1	42.6	43.1	43.6	44.0	44.5
46.0	26.9	29.2	31.1	32.6	34.0	35.2	36.2	37.2	38.0	38.8	39.5	40.2	40.9	41.5	42.0	42.6	43.1	43.6	44.1	44.5	45.0
46.5	27.1	29.5	31.3	32.9	34.3	35.5	36.6	37.5	38.4	39.2	39.9	40.6	41.3	41.9	42.5	43.0	43.5	44.0	44.5	45.0	45.4
47.0	27.4	29.7	31.6	33.2	34.6	35.8	36.9	37.9	38.8	39.6	40.3	41.0	41.7	42.3	42.9	43.5	44.0	44.5	45.0	45.5	45.9
47.5	27.6	30.0	31.9	33.5	34.9	36.2	37.3	38.2	39.1	40.0	40.7	41.4	42.1	42.7	43.3	43.9	44.4	45.0	45.5	45.9	46.4
48.0	27.8	30.2	32.2	33.8	35.3	36.5	37.6	38.6	39.5	40.4	41.1	41.8	42.5	43.2	43.8	44.3	44.9	45.4	45.9	46.4	46.9
48.5	28.1	30.5	32.5	34.1	35.6	36.8	38.0	39.0	39.9	40.7	41.5	42.3	42.9	43.6	44.2	44.8	45.3	45.9	46.4	46.9	47.4
49.0	28.3	30.7	32.8	34.4	35.9	37.2	38.3	39.3	40.3	41.1	41.9	42.7	43.4	44.0	44.6	45.2	45.8	46.3	46.9	47.4	47.9
49.5	28.5	31.0	33.0	34.7	36.2	37.5	38.6	39.7	40.6	41.5	42.3	43.1	43.8	44.4	45.1	45.7	46.2	46.8	47.3	47.8	48.3
50.0	28.7	31.3	33.3	35.0	36.5	37.8	39.0	40.0	41.0	41.9	42.7	43.5	44.2	44.9	45.5	46.1	46.7	47.3	47.8	48.3	48.8

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SUGAR MAPLE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.6	3.8	4.0	4.1	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.0	5.0
5.5	3.9	4.2	4.4	4.5	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.5
6.0	4.2	4.5	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	6.0
6.5	4.6	4.9	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.2	6.3	6.3	6.4	6.4	6.4	6.4	6.5
7.0	4.9	5.3	5.6	5.8	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9	7.0
7.5	5.3	5.7	5.9	6.2	6.4	6.5	6.6	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4	7.4	7.4
8.0	5.6	6.0	6.3	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.8	7.9	7.9	7.9
8.5	6.0	6.4	6.7	7.0	7.2	7.4	7.5	7.6	7.8	7.9	7.9	8.0	8.1	8.2	8.2	8.3	8.3	8.3	8.4	8.4	8.4
9.0	6.3	6.8	7.1	7.4	7.6	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.9	8.9	8.9
9.5	6.6	7.1	7.5	7.8	8.0	8.2	8.4	8.5	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.4	9.4	9.4
10.0	7.0	7.5	7.9	8.2	8.4	8.6	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.8	9.9	9.9
10.5	7.3	7.8	8.2	8.6	8.8	9.1	9.2	9.4	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4	10.4
11.0	7.7	8.2	8.6	9.0	9.2	9.5	9.7	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9	10.9
11.5	8.0	8.6	9.0	9.4	9.7	9.9	10.1	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3	11.4	11.4
12.0	8.3	8.9	9.4	9.8	10.1	10.3	10.5	10.7	10.9	11.0	11.2	11.3	11.4	11.5	11.5	11.6	11.7	11.7	11.8	11.9	11.9
12.5	8.7	9.3	9.8	10.1	10.5	10.7	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3	12.3	12.4
13.0	9.0	9.6	10.1	10.5	10.9	11.2	11.4	11.6	11.8	11.9	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.8	12.8	12.9
13.5	9.3	10.0	10.5	10.9	11.3	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.1	13.2	13.3	13.3	13.4
14.0	9.6	10.3	10.9	11.3	11.7	12.0	12.2	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.8	13.9
14.5	10.0	10.7	11.3	11.7	12.1	12.4	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.2	14.3	14.4
15.0	10.3	11.0	11.6	12.1	12.5	12.8	13.1	13.3	13.5	13.7	13.9	14.0	14.2	14.3	14.4	14.5	14.6	14.7	14.7	14.8	14.9
15.5	10.6	11.4	12.0	12.5	12.9	13.2	13.5	13.8	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.0	15.1	15.1	15.2	15.3	15.4
16.0	10.9	11.7	12.4	12.9	13.3	13.6	13.9	14.2	14.4	14.6	14.8	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.8
16.5	11.3	12.1	12.7	13.3	13.7	14.0	14.4	14.6	14.9	15.1	15.2	15.4	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.3
17.0	11.6	12.4	13.1	13.6	14.1	14.5	14.8	15.1	15.3	15.5	15.7	15.9	16.0	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.8
17.5	11.9	12.8	13.5	14.0	14.5	14.9	15.2	15.5	15.7	15.9	16.1	16.3	16.5	16.6	16.7	16.9	17.0	17.1	17.2	17.2	17.3
18.0	12.2	13.1	13.8	14.4	14.9	15.3	15.6	15.9	16.2	16.4	16.6	16.8	16.9	17.1	17.2	17.3	17.5	17.6	17.6	17.7	17.8
18.5	12.5	13.5	14.2	14.8	15.3	15.7	16.0	16.3	16.6	16.8	17.0	17.2	17.4	17.5	17.7	17.8	17.9	18.0	18.1	18.2	18.3
19.0	12.8	13.8	14.6	15.2	15.7	16.1	16.4	16.8	17.0	17.3	17.5	17.7	17.9	18.0	18.2	18.3	18.4	18.5	18.6	18.7	18.8
19.5	13.2	14.1	14.9	15.5	16.1	16.5	16.9	17.2	17.5	17.7	17.9	18.1	18.3	18.5	18.6	18.8	18.9	19.0	19.1	19.2	19.3
20.0	13.5	14.5	15.3	15.9	16.4	16.9	17.3	17.6	17.9	18.2	18.4	18.6	18.8	18.9	19.1	19.2	19.4	19.5	19.6	19.7	19.8
20.5	13.8	14.8	15.6	16.3	16.8	17.3	17.7	18.0	18.3	18.6	18.8	19.0	19.2	19.4	19.6	19.7	19.8	20.0	20.1	20.2	20.3
21.0	14.1	15.2	16.0	16.7	17.2	17.7	18.1	18.5	18.8	19.0	19.3	19.5	19.7	19.9	20.0	20.2	20.3	20.4	20.6	20.7	20.8
21.5	14.4	15.5	16.4	17.0	17.6	18.1	18.5	18.9	19.2	19.5	19.7	19.9	20.1	20.3	20.5	20.6	20.8	20.9	21.0	21.2	21.3
22.0	14.7	15.8	16.7	17.4	18.0	18.5	18.9	19.3	19.6	19.9	20.2	20.4	20.6	20.8	21.0	21.1	21.3	21.4	21.5	21.6	21.8
22.5	15.0	16.2	17.1	17.8	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.8	21.1	21.2	21.4	21.6	21.7	21.9	22.0	22.1	22.2
23.0	15.3	16.5	17.4	18.2	18.8	19.3	19.7	20.1	20.5	20.8	21.0	21.3	21.5	21.7	21.9	22.1	22.2	22.4	22.5	22.6	22.7
23.5	15.6	16.8	17.8	18.5	19.2	19.7	20.2	20.5	20.9	21.2	21.5	21.7	22.0	22.2	22.4	22.5	22.7	22.8	23.0	23.1	23.2
24.0	15.9	17.2	18.1	18.9	19.5	20.1	20.6	21.0	21.3	21.6	21.9	22.2	22.4	22.6	22.8	23.0	23.2	23.3	23.5	23.6	23.7
24.5	16.2	17.5	18.5	19.3	19.9	20.5	21.0	21.4	21.7	22.1	22.4	22.6	22.9	23.1	23.3	23.5	23.6	23.8	23.9	24.1	24.2
25.0	16.5	17.8	18.8	19.6	20.3	20.9	21.4	21.8	22.2	22.5	22.8	23.1	23.3	23.5	23.8	23.9	24.1	24.3	24.4	24.6	24.7
25.5	16.8	18.1	19.2	20.0	20.7	21.3	21.8	22.2	22.6	22.9	23.2	23.5	23.8	24.0	24.2	24.4	24.6	24.8	24.9	25.1	25.2
26.0	17.1	18.5	19.5	20.4	21.1	21.7	22.2	22.6	23.0	23.4	23.7	24.0	24.2	24.5	24.7	24.9	25.1	25.2	25.4	25.5	25.7
26.5	17.4	18.8	19.9	20.7	21.4	22.1	22.6	23.0	23.4	23.8	24.1	24.4	24.7	24.9	25.1	25.3	25.5	25.7	25.9	26.0	26.2
27.0	17.7	19.1	20.2	21.1	21.8	22.4	23.0	23.5	23.9	24.2	24.6	24.9	25.1	25.4	25.6	25.8	26.0	26.2	26.4	26.5	26.7
27.5	18.0	19.4	20.5	21.4	22.2	22.8	23.4	23.9	24.3	24.7	25.0	25.3	25.6	25.8	26.1	26.3	26.5	26.7	26.8	27.0	27.2
28.0	18.3	19.8	20.9	21.8	22.6	23.2	23.8	24.3	24.7	25.1	25.4	25.7	26.0	26.3	26.5	26.7	26.9	27.1	27.3	27.5	27.6
28.5	18.6	20.1	21.2	22.2	22.9	23.6	24.2	24.7	25.1	25.5	25.9	26.2	26.5	26.7	27.0	27.2	27.4	27.6	27.8	28.0	28.1
29.0	18.9	20.4	21.6	22.5	23.3	24.0	24.6	25.1	25.5	25.9	26.3	26.6	26.9	27.2	27.4	27.7	27.9	28.1	28.3	28.5	28.6
29.5	19.2	20.7	21.9	22.9	23.7	24.4	25.0	25.5	26.0	26.4	26.7	27.1	27.4	27.6	27.9	28.1	28.4	28.6	28.8	28.9	29.1
30.0	19.5	21.0	22.2	23.2	24.1	24.8	25.4	25.9	26.4	26.8	27.2	27.5	27.8	28.1	28.4	28.6	28.8	29.0	29.2	29.4	29.6
30.5	19.8	21.3	22.6	23.6	24.4	25.2	25.8	26.3	26.8	27.2	27.6	27.9	28.3	28.6	28.8	29.1	29.3	29.5	29.7	29.9	30.1
31.0	20.1	21.7	22.9	23.9	24.8	25.5	26.2	26.7	27.2	27.6	28.0	28.4	28.7	29.0	29.3	29.5	29.8	30.0	30.2	30.4	30.6
31.5	20.3	22.0	23.3	24.3	25.2	25.9	26.6	27.1	27.6	28.1	28.5	28.8	29.2	29.5	29.7	30.0	30.2	30.5	30.7	30.9	31.1
32.0	20.6	22.3	23.6	24.7	25.5	26.3	26.9	27.5	28.0	28.5	28.9	29.3	29.6	29.9	30.2	30.5	30.7	30.9	31.2	31.4	31.6
32.5	20.9	22.6	23.9	25.0	25.9	26.7	27.3	27.9	28.4	28.9	29.3	29.7	30.0	30.4	30.6	30.9	31.2	31.4	31.6	31.8	32.0
33.0	21.2	22.9	24.2	25.4	26.3	27.1	27.7	28.3	28.9	29.3	29.7	30.1	30.5	30.8	31.1	31.4	31.6	31.9	32.1	32.3	32.5
33.5	21.5	23.2	24.6	25.7	26.6	27.4	28.1	28.7	29.3	29.7	30.2	30.6	30.9	31.3	31.6	31.8	32.1	32.4	32.6	32.8	33.0
34.0	21.7	23.5	24.9	26.0	27.0	27.8	28.5	29.1	29.7	30.2	30.6	31.0	31.4	31.7	32.0	32.3	32.6	32.8	33.1	33.3	33.5
34.5	22.0	23.8	25.2	26.4	27.4	28.2	28.9	29.5	30.1	30.6	31.0	31.4	31.8	32.2	32.5	32.8	33.0	33.3	33.5	33.8	34.0
35.0	22.3	24.1	25.6	26.7	27.7	28.6	29.3	29.9	30.5	31.0	31.5	31.9	32.3	32.6	32.9	33.2	33.5	33.8	34.0	34.3	34.5
35.5	22.6	24.4	25.9	27.1	28.1	28.9	29.7	30.3	30.9	31.4	31.9	32.3	32.7	33.0	33.4	33.7	34.0	34.2	34.5	34.7	35.0
36.0	22.8	24.7	26.2	27.4	28.4	29.3	30.1	30.7	31.3	31.8	32.3	32.7	33.1	33.5	33.8	34.1	34.4	34.7	35.0	35.2	35.5
36.5	23.1	25.0	26.5	27.8	28.8	29.7	30.4	31.1	31.7	32.2	32.7	33.2	33.6	33.9	34.3	34.6	34.9	35.2	35.5	35.7	35.9
37.0	23.4	25.3	26.9	28.1	29.2	30.1	30.8	31.5	32.1	32.7	33.1	33.6	34.0	34.4	34.7	35.1	35.4	35.7	35.9	36.2	36.4
37.5	23.7	25.6	27.2	28.4	29.5	30.4	31.2	31.9	32.5	33.1	33.6	34.0	34.4	34.8	35.2	35.5	35.8	36.1	36.4	36.7	36.9
38.0	23.9	25.9	27.5	28.8	29.9	30.8	31.6	32.3	32.9	33.5	34.0	34.5	34.9	35.3	35.6	36.0	36.3	36.6	36.9	37.2	37.4
38.5	24.2	26.2	27.8	29.1	30.2	31.2	32.0	32.7	33.3	33.9	34.4	34.9	35.3	35.7	36.1	36.4	36.8	37.1	37.4	37.6	37.9
39.0	24.5	26.5	28.1	29.5	30.6	31.5	32.4	33.1	33.7	34.3	34.8	35.3	35.8	36.2	36.5	36.9	37.2	37.5	37.8	38.1	38.4
39.5	24.7	26.8	28.5	29.8	30.9	31.9	32.7	33.5	34.1	34.7	35.3	35.7	36.2	36.6	37.0	37.4	37.7	38.0	38.3	38.6	38.9
40.0	25.0	27.1	28.8	30.1	31.3	32.3	33.1	33.9	34.5	35.1	35.7	36.2	36.6	37.1	37.4	37.8	38.2	38.5	38.8	39.1	39.4
40.5	25.2	27.4	29.1	30.5	31.6	32.6	33.5	34.3	34.9	35.5	36.1	36.6	37.1	37.5	37.9	38.3	38.6	38.9	39.3	39.6	39.8
41.0	25.5	27.7	29.4	30.8	32.0	33.0	33.9	34.6	35.3	35.9	36.5	37.0	37.5	37.9	38.3	38.7	39.1	39.4	39.7	40.0	40.3
41.5	25.8	28.0	29.7	31.1	32.3	33.4	34.2	35.0	35.7	36.4	36.9	37.4	37.9	38.4	38.8	39.2	39.5	39.9	40.2	40.5	40.8
42.0	26.0	28.3	30.0	31.5	32.7	33.7	34.6	35.4	36.1	36.8	37.3	37.9	38.4	38.8	39.2	39.6	40.0	40.4	40.7	41.0	41.3
42.5	26.3	28.5	30.3	31.8	33.0	34.1	35.0	35.8	36.5	37.2	37.8	38.3	38.8	39.3	39.7	40.1	40.5	40.8	41.2	41.5	41.8
43.0	26.5	28.8	30.6	32.1	33.4	34.4	35.4	36.2	36.9	37.6	38.2	38.7	39.2	39.7	40.1	40.5	40.9	41.3	41.6	42.0	42.3
43.5	26.8	29.1	30.9	32.4	33.7	34.8	35.7	36.6	37.3	38.0	38.6	39.1	39.7	40.1	40.6	41.0	41.4	41.8	42.1	42.4	42.8
44.0	27.1	29.4	31.2	32.8	34.1	35.1	36.1	36.9	37.7	38.4	39.0	39.6	40.1	40.6	41.0	41.4	41.8	42.2	42.6	42.9	43.2
44.5	27.3	29.7	31.6	33.1	34.4	35.5	36.5	37.3	38.1	38.8	39.4	40.0	40.5	41.0	41.5	41.9	42.3	42.7	43.1	43.4	43.7
45.0	27.6	30.0	31.9	33.4	34.7	35.9	36.8	37.7	38.5	39.2	39.8	40.4	40.9	41.4	41.9	42.4	42.8	43.2	43.5	43.9	44.2
45.5	27.8	30.2	32.2	33.7	35.1	36.2	37.2	38.1	38.9	39.6	40.2	40.8	41.4	41.9	42.4	42.8	43.2	43.6	44.0	44.4	44.7
46.0	28.1	30.5	32.5	34.1	35.4	36.6	37.6	38.5	39.3	40.0	40.6	41.3	41.8	42.3	42.8	43.3	43.7	44.1	44.5	44.8	45.2
46.5	28.3	30.8	32.8	34.4	35.8	36.9	37.9	38.9	39.7	40.4	41.1	41.7	42.2	42.8	43.2	43.7	44.1	44.6	44.9	45.3	45.7
47.0	28.6	31.1	33.1	34.7	36.1	37.3	38.3	39.2	40.1	40.8	41.5	42.1	42.7	43.2	43.7	44.2	44.6	45.0	45.4	45.8	46.2
47.5	28.8	31.3	33.4	35.0	36.4	37.6	38.7	39.6	40.4	41.2	41.9	42.5	43.1	43.6	44.1	44.6	45.1	45.5	45.9	46.3	46.6
48.0	29.0	31.6	33.7	35.3	36.8	38.0	39.0	40.0	40.8	41.6	42.3	42.9	43.5	44.1	44.6	45.1	45.5	45.9	46.4	46.7	47.1
48.5	29.3	31.9	34.0	35.7	37.1	38.3	39.4	40.4	41.2	42.0	42.7	43.3	43.9	44.5	45.0	45.5	46.0	46.4	46.8	47.2	47.6
49.0	29.5	32.2	34.3	36.0	37.4	38.7	39.8	40.7	41.6	42.4	43.1	43.8	44.4	44.9	45.5	46.0	46.4	46.9	47.3	47.7	48.1
49.5	29.8	32.4	34.5	36.3	37.8	39.0	40.1	41.1	42.0	42.8	43.5	44.2	44.8	45.4	45.9	46.4	46.9	47.3	47.8	48.2	48.6
50.0	30.0	32.7	34.8	36.6	38.1	39.4	40.5	41.5	42.4	43.2	43.9	44.6	45.2	45.8	46.3	46.9	47.3	47.8	48.2	48.7	49.1

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BUCKEYE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.7	3.9	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	4.9	5.0
5.5	4.1	4.3	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.5
6.0	4.5	4.7	4.9	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	6.0
6.5	4.9	5.1	5.3	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.5
7.0	5.2	5.5	5.7	5.9	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9	7.0
7.5	5.6	5.9	6.1	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.3	7.4	7.4	7.4	7.4
8.0	6.0	6.3	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.7	7.8	7.8	7.9	7.9	7.9	7.9
8.5	6.4	6.7	7.0	7.2	7.4	7.5	7.6	7.8	7.8	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4	8.4	8.4	8.4
9.0	6.8	7.1	7.4	7.6	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.8	8.9	8.9	8.9
9.5	7.1	7.5	7.8	8.0	8.2	8.4	8.5	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.3	9.4	9.4	9.4
10.0	7.5	7.9	8.2	8.5	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.7	9.8	9.8	9.9	9.9	9.9
10.5	7.9	8.3	8.6	8.9	9.1	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.2	10.3	10.3	10.4	10.4	10.4
11.0	8.3	8.7	9.1	9.3	9.6	9.7	9.9	10.1	10.2	10.3	10.4	10.5	10.5	10.6	10.7	10.7	10.8	10.8	10.9	10.9	10.9
11.5	8.7	9.1	9.5	9.8	10.0	10.2	10.4	10.5	10.6	10.8	10.9	10.9	11.0	11.1	11.2	11.2	11.3	11.3	11.4	11.4	11.4
12.0	9.1	9.5	9.9	10.2	10.4	10.6	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.8	11.8	11.8	11.9	11.9
12.5	9.4	9.9	10.3	10.6	10.9	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.2	12.3	12.3	12.4	12.4
13.0	9.8	10.3	10.7	11.1	11.3	11.5	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.7	12.8	12.8	12.9	12.9
13.5	10.2	10.7	11.2	11.5	11.8	12.0	12.2	12.4	12.5	12.6	12.8	12.9	13.0	13.0	13.1	13.2	13.2	13.3	13.3	13.4	13.4
14.0	10.6	11.1	11.6	11.9	12.2	12.4	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.8	13.8	13.9	13.9
14.5	11.0	11.5	12.0	12.4	12.6	12.9	13.1	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.2	14.3	14.3	14.4	14.4
15.0	11.4	12.0	12.4	12.8	13.1	13.4	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.5	14.6	14.6	14.7	14.8	14.8	14.9	14.9
15.5	11.8	12.4	12.8	13.2	13.5	13.8	14.0	14.2	14.4	14.5	14.7	14.8	14.9	15.0	15.1	15.1	15.2	15.3	15.3	15.4	15.4
16.0	12.1	12.8	13.3	13.7	14.0	14.3	14.5	14.7	14.9	15.0	15.2	15.3	15.4	15.5	15.6	15.6	15.7	15.8	15.8	15.9	15.9
16.5	12.5	13.2	13.7	14.1	14.4	14.7	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.0	16.0	16.1	16.2	16.3	16.3	16.4	16.4
17.0	12.9	13.6	14.1	14.5	14.9	15.2	15.4	15.6	15.8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.8	16.9	16.9
17.5	13.3	14.0	14.5	15.0	15.3	15.6	15.9	16.1	16.3	16.4	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.2	17.3	17.4	17.4
18.0	13.7	14.4	15.0	15.4	15.8	16.1	16.3	16.6	16.8	16.9	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.7	17.8	17.9	17.9
18.5	14.1	14.8	15.4	15.8	16.2	16.5	16.8	17.0	17.2	17.4	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.2	18.3	18.4	18.4
19.0	14.5	15.2	15.8	16.3	16.7	17.0	17.3	17.5	17.7	17.9	18.0	18.2	18.3	18.4	18.5	18.6	18.7	18.7	18.8	18.8	18.9
19.5	14.9	15.6	16.2	16.7	17.1	17.4	17.7	18.0	18.2	18.4	18.5	18.7	18.8	18.9	19.0	19.1	19.2	19.2	19.3	19.3	19.4
20.0	15.3	16.1	16.7	17.2	17.6	17.9	18.2	18.4	18.6	18.8	19.0	19.1	19.3	19.4	19.5	19.6	19.7	19.7	19.8	19.8	19.9
20.5	15.7	16.5	17.1	17.6	18.0	18.4	18.7	18.9	19.1	19.3	19.5	19.6	19.8	19.9	20.0	20.1	20.1	20.2	20.3	20.3	20.4
21.0	16.1	16.9	17.5	18.0	18.5	18.8	19.1	19.4	19.6	19.8	20.0	20.1	20.2	20.4	20.5	20.6	20.6	20.7	20.8	20.8	20.9
21.5	16.5	17.3	18.0	18.5	18.9	19.3	19.6	19.8	20.1	20.3	20.4	20.6	20.7	20.9	21.0	21.1	21.1	21.2	21.3	21.3	21.4
22.0	16.9	17.7	18.4	18.9	19.4	19.7	20.0	20.3	20.5	20.8	20.9	21.1	21.2	21.3	21.5	21.5	21.6	21.7	21.8	21.8	21.9
22.5	17.3	18.1	18.8	19.4	19.8	20.2	20.5	20.8	21.0	21.2	21.4	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.3	22.4
23.0	17.7	18.6	19.2	19.8	20.3	20.7	21.0	21.3	21.5	21.7	21.9	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.8	22.9
23.5	18.1	19.0	19.7	20.3	20.7	21.1	21.4	21.7	22.0	22.2	22.4	22.5	22.7	22.8	22.9	23.0	23.1	23.2	23.3	23.3	23.4
24.0	18.5	19.4	20.1	20.7	21.2	21.6	21.9	22.2	22.5	22.7	22.9	23.0	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.8	23.9
24.5	18.9	19.8	20.5	21.1	21.6	22.0	22.4	22.7	22.9	23.2	23.3	23.5	23.7	23.8	23.9	24.0	24.1	24.2	24.3	24.3	24.4
25.0	19.3	20.2	21.0	21.6	22.1	22.5	22.8	23.2	23.4	23.6	23.8	24.0	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.8	24.9
25.5	19.7	20.6	21.4	22.0	22.5	23.0	23.3	23.6	23.9	24.1	24.3	24.5	24.7	24.8	24.9	25.0	25.1	25.2	25.3	25.3	25.4
26.0	20.1	21.1	21.8	22.5	23.0	23.4	23.8	24.1	24.4	24.6	24.8	25.0	25.1	25.3	25.4	25.5	25.6	25.7	25.8	25.8	25.9
26.5	20.5	21.5	22.3	22.9	23.4	23.9	24.3	24.6	24.8	25.1	25.3	25.5	25.6	25.8	25.9	26.0	26.1	26.2	26.3	26.3	26.4
27.0	20.9	21.9	22.7	23.4	23.9	24.3	24.7	25.1	25.3	25.6	25.8	26.0	26.1	26.3	26.4	26.5	26.6	26.7	26.8	26.8	26.9
27.5	21.3	22.3	23.2	23.8	24.4	24.8	25.2	25.5	25.8	26.1	26.3	26.5	26.6	26.8	26.9	27.0	27.1	27.2	27.3	27.3	27.4
28.0	21.7	22.8	23.6	24.3	24.8	25.3	25.7	26.0	26.3	26.5	26.8	26.9	27.1	27.3	27.4	27.5	27.6	27.7	27.8	27.8	27.9
28.5	22.1	23.2	24.0	24.7	25.3	25.7	26.1	26.5	26.8	27.0	27.2	27.4	27.6	27.7	27.9	28.0	28.1	28.2	28.3	28.3	28.4
29.0	22.5	23.6	24.5	25.2	25.7	26.2	26.6	27.0	27.3	27.5	27.7	27.9	28.1	28.2	28.4	28.5	28.6	28.7	28.8	28.8	28.9
29.5	22.9	24.0	24.9	25.6	26.2	26.7	27.1	27.4	27.7	28.0	28.2	28.4	28.6	28.7	28.9	29.0	29.1	29.2	29.3	29.3	29.4
30.0	23.3	24.5	25.3	26.1	26.7	27.1	27.6	27.9	28.2	28.5	28.7	28.9	29.1	29.2	29.4	29.5	29.6	29.7	29.8	29.8	29.9
30.5	23.7	24.9	25.8	26.5	27.1	27.6	28.0	28.4	28.7	29.0	29.2	29.4	29.6	29.7	29.9	30.0	30.1	30.2	30.3	30.3	30.4
31.0	24.1	25.3	26.2	27.0	27.6	28.1	28.5	28.9	29.2	29.5	29.7	29.9	30.1	30.2	30.4	30.5	30.6	30.7	30.8	30.8	30.9
31.5	24.5	25.7	26.7	27.4	28.0	28.5	29.0	29.3	29.7	29.9	30.2	30.4	30.6	30.7	30.9	31.0	31.1	31.2	31.3	31.3	31.4
32.0	24.9	26.2	27.1	27.9	28.5	29.0	29.5	29.8	30.1	30.4	30.7	30.9	31.1	31.2	31.4	31.5	31.6	31.7	31.8	31.8	31.9
32.5	25.4	26.6	27.6	28.3	29.0	29.5	29.9	30.3	30.6	30.9	31.2	31.4	31.6	31.7	31.9	32.0	32.1	32.2	32.3	32.3	32.4
33.0	25.8	27.0	28.0	28.8	29.4	30.0	30.4	30.8	31.1	31.4	31.6	31.9	32.0	32.2	32.4	32.5	32.6	32.7	32.8	32.8	32.9
33.5	26.2	27.4	28.4	29.2	29.9	30.4	30.9	31.3	31.6	31.9	32.1	32.4	32.5	32.7	32.8	33.0	33.1	33.2	33.3	33.3	33.4
34.0	26.6	27.9	28.9	29.7	30.3	30.9	31.4	31.8	32.1	32.4	32.6	32.8	33.0	33.2	33.3	33.5	33.6	33.7	33.8	33.8	33.9
34.5	27.0	28.3	29.3	30.1	30.8	31.4	31.8	32.2	32.6	32.9	33.1	33.3	33.5	33.7	33.8	34.0	34.1	34.2	34.3	34.3	34.4
35.0	27.4	28.7	29.8	30.6	31.3	31.8	32.3	32.7	33.1	33.4	33.6	33.8	34.0	34.2	34.3	34.5	34.6	34.7	34.8	34.8	34.9
35.5	27.8	29.2	30.2	31.1	31.7	32.3	32.8	33.2	33.5	33.8	34.1	34.3	34.5	34.7	34.8	35.0	35.1	35.2	35.3	35.3	35.4
36.0	28.2	29.6	30.7	31.5	32.2	32.8	33.3	33.7	34.0	34.3	34.6	34.8	35.0	35.2	35.3	35.5	35.6	35.7	35.8	35.8	35.9
36.5	28.7	30.0	31.1	32.0	32.7	33.3	33.7	34.2	34.5	34.8	35.1	35.3	35.5	35.7	35.8	36.0	36.1	36.2	36.3	36.3	36.4
37.0	29.1	30.5	31.6	32.4	33.1	33.7	34.2	34.6	35.0	35.3	35.6	35.8	36.0	36.2	36.3	36.5	36.6	36.7	36.8	36.8	36.9
37.5	29.5	30.9	32.0	32.9	33.6	34.2	34.7	35.1	35.5	35.8	36.1	36.3	36.5	36.7	36.8	37.0	37.1	37.2	37.3	37.3	37.4
38.0	29.9	31.3	32.5	33.3	34.1	34.7	35.2	35.6	36.0	36.3	36.6	36.8	37.0	37.2	37.3	37.5	37.6	37.7	37.8	37.8	37.9
38.5	30.3	31.8	32.9	33.8	34.5	35.2	35.7	36.1	36.5	36.8	37.1	37.3	37.5	37.7	37.8	38.0	38.1	38.2	38.3	38.3	38.4
39.0	30.7	32.2	33.4	34.3	35.0	35.6	36.1	36.6	37.0	37.3	37.6	37.8	38.0	38.2	38.3	38.5	38.6	38.7	38.8	38.8	38.9
39.5	31.2	32.6	33.8	34.7	35.5	36.1	36.6	37.1	37.5	37.8	38.1	38.3	38.5	38.7	38.8	39.0	39.1	39.2	39.3	39.3	39.4
40.0	31.6	33.1	34.3	35.2	35.9	36.6	37.1	37.6	37.9	38.3	38.6	38.8	39.0	39.2	39.3	39.5	39.6	39.7	39.8	39.8	39.9
40.5	32.0	33.5	34.7	35.6	36.4	37.1	37.6	38.0	38.4	38.8	39.1	39.3	39.5	39.7	39.8	40.0	40.1	40.2	40.3	40.3	40.4
41.0	32.4	34.0	35.2	36.1	36.9	37.5	38.1	38.5	38.9	39.3	39.5	39.8	40.0	40.2	40.4	40.5	40.6	40.7	40.8	40.9	40.9
41.5	32.8	34.4	35.6	36.6	37.4	38.0	38.6	39.0	39.4	39.8	40.0	40.3	40.5	40.7	40.9	41.0	41.1	41.2	41.3	41.4	41.4
42.0	33.3	34.8	36.1	37.0	37.8	38.5	39.0	39.5	39.9	40.2	40.5	40.8	41.0	41.2	41.4	41.5	41.6	41.7	41.8	41.9	41.9
42.5	33.7	35.3	36.5	37.5	38.3	39.0	39.5	40.0	40.4	40.7	41.0	41.3	41.5	41.7	41.9	42.0	42.1	42.2	42.3	42.4	42.4
43.0	34.1	35.7	37.0	38.0	38.8	39.5	40.0	40.5	40.9	41.2	41.5	41.8	42.0	42.2	42.4	42.5	42.6	42.7	42.8	42.9	42.9
43.5	34.5	36.2	37.4	38.4	39.3	39.9	40.5	41.0	41.4	41.7	42.0	42.3	42.5	42.7	42.9	43.0	43.1	43.2	43.3	43.4	43.4
44.0	35.0	36.6	37.9	38.9	39.7	40.4	41.0	41.5	41.9	42.2	42.5	42.8	43.0	43.2	43.4	43.5	43.6	43.7	43.8	43.9	43.9
44.5	35.4	37.0	38.3	39.4	40.2	40.9	41.5	42.0	42.4	42.7	43.0	43.3	43.5	43.7	43.9	44.0	44.1	44.2	44.3	44.4	44.4
45.0	35.8	37.5	38.8	39.8	40.7	41.4	42.0	42.5	42.9	43.2	43.5	43.8	44.0	44.2	44.4	44.5	44.6	44.7	44.8	44.9	44.9
45.5	36.2	37.9	39.2	40.3	41.2	41.9	42.4	42.9	43.4	43.7	44.0	44.3	44.5	44.7	44.9	45.0	45.1	45.2	45.3	45.4	45.4
46.0	36.7	38.4	39.7	40.8	41.6	42.3	42.9	43.4	43.9	44.2	44.5	44.8	45.0	45.2	45.4	45.5	45.6	45.7	45.8	45.9	45.9
46.5	37.1	38.8	40.2	41.2	42.1	42.8	43.4	43.9	44.4	44.7	45.0	45.3	45.5	45.7	45.9	46.0	46.1	46.2	46.3	46.4	46.4
47.0	37.5	39.3	40.6	41.7	42.6	43.3	43.9	44.4	44.9	45.2	45.5	45.8	46.0	46.2	46.4	46.5	46.6	46.7	46.8	46.9	46.9
47.5	37.9	39.7	41.1	42.2	43.1	43.8	44.4	44.9	45.3	45.7	46.0	46.3	46.5	46.7	46.9	47.0	47.2	47.2	47.3	47.4	47.4
48.0	38.4	40.2	41.5	42.6	43.5	44.3	44.9	45.4	45.8	46.2	46.5	46.8	47.0	47.2	47.4	47.5	47.7	47.8	47.8	47.9	47.9
48.5	38.8	40.6	42.0	43.1	44.0	44.8	45.4	45.9	46.3	46.7	47.0	47.3	47.5	47.7	47.9	48.0	48.2	48.3	48.3	48.4	48.4
49.0	39.2	41.1	42.5	43.6	44.5	45.2	45.9	46.4	46.8	47.2	47.5	47.8	48.0	48.2	48.4	48.6	48.7	48.8	48.8	48.9	48.9
49.5	39.7	41.5	42.9	44.1	45.0	45.7	46.4	46.9	47.3	47.7	48.0	48.3	48.5	48.7	48.9	49.1	49.2	49.3	49.3	49.4	49.4
50.0	40.1	42.0	43.4	44.5	45.5	46.2	46.9	47.4	47.8	48.2	48.5	48.8	49.1	49.3	49.4	49.6	49.7	49.8	49.8	49.9	50.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BIRCH(EXCEPT YELLOW)

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.3	3.5	3.7	3.8	3.9	4.1	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9
5.5	3.7	3.9	4.1	4.2	4.3	4.5	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4
6.0	4.0	4.2	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.3	4.6	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4
7.0	4.7	4.9	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9
7.5	5.0	5.3	5.5	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.3	7.3	7.4
8.0	5.3	5.7	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.8	7.8	7.9
8.5	5.7	6.0	6.3	6.5	6.7	6.9	7.1	7.2	7.3	7.5	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.2	8.2	8.3	8.4
9.0	6.0	6.4	6.7	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.7	8.8	8.9
9.5	6.3	6.7	7.0	7.3	7.5	7.7	7.9	8.1	8.2	8.3	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3
10.0	6.7	7.1	7.4	7.7	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9.0	9.1	9.3	9.4	9.4	9.5	9.6	9.7	9.8	9.8
10.5	7.0	7.4	7.8	8.1	8.3	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.3
11.0	7.4	7.8	8.2	8.5	8.7	9.0	9.2	9.3	9.5	9.7	9.8	9.9	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8
11.5	7.7	8.2	8.5	8.8	9.1	9.4	9.6	9.8	10.0	10.1	10.3	10.4	10.5	10.6	10.8	10.9	11.0	11.1	11.1	11.2	11.3
12.0	8.0	8.5	8.9	9.2	9.5	9.8	10.0	10.2	10.4	10.6	10.7	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	8.4	8.9	9.3	9.6	9.9	10.2	10.4	10.6	10.8	11.0	11.2	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3
13.0	8.7	9.2	9.7	10.0	10.3	10.6	10.8	11.1	11.3	11.4	11.6	11.8	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.7	12.8
13.5	9.1	9.6	10.0	10.4	10.7	11.0	11.3	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.4	10.0	10.4	10.8	11.1	11.4	11.7	11.9	12.1	12.3	12.5	12.7	12.8	13.0	13.1	13.2	13.4	13.5	13.6	13.7	13.8
14.5	9.7	10.3	10.8	11.2	11.5	11.8	12.1	12.3	12.6	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.8	14.0	14.1	14.2	14.3
15.0	10.1	10.7	11.2	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.6	14.7	14.8
15.5	10.4	11.0	11.5	12.0	12.3	12.7	12.9	13.2	13.4	13.7	13.9	14.0	14.2	14.4	14.5	14.7	14.8	14.9	15.0	15.1	15.3
16.0	10.8	11.4	11.9	12.4	12.7	13.1	13.4	13.6	13.9	14.1	14.3	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.5	15.6	15.7
16.5	11.1	11.8	12.3	12.7	13.1	13.5	13.8	14.1	14.3	14.5	14.8	15.0	15.1	15.3	15.5	15.6	15.8	15.9	16.0	16.1	16.2
17.0	11.5	12.1	12.7	13.1	13.5	13.9	14.2	14.5	14.8	15.0	15.2	15.4	15.6	15.8	15.9	16.1	16.2	16.4	16.5	16.6	16.7
17.5	11.8	12.5	13.1	13.5	13.9	14.3	14.6	14.9	15.2	15.4	15.7	15.9	16.1	16.2	16.4	16.6	16.7	16.9	17.0	17.1	17.2
18.0	12.2	12.9	13.4	13.9	14.4	14.7	15.1	15.4	15.6	15.9	16.1	16.3	16.5	16.7	16.9	17.0	17.2	17.3	17.5	17.6	17.7
18.5	12.5	13.2	13.8	14.3	14.8	15.1	15.5	15.8	16.1	16.3	16.6	16.8	17.0	17.2	17.4	17.5	17.7	17.8	18.0	18.1	18.2
19.0	12.8	13.6	14.2	14.7	15.2	15.6	15.9	16.2	16.5	16.8	17.0	17.2	17.4	17.6	17.8	18.0	18.2	18.3	18.4	18.6	18.7
19.5	13.2	13.9	14.6	15.1	15.6	16.0	16.3	16.7	17.0	17.2	17.5	17.7	17.9	18.1	18.3	18.5	18.6	18.8	18.9	19.1	19.2
20.0	13.5	14.3	15.0	15.5	16.0	16.4	16.8	17.1	17.4	17.7	17.9	18.2	18.4	18.6	18.8	18.9	19.1	19.3	19.4	19.6	19.7
20.5	13.9	14.7	15.3	15.9	16.4	16.8	17.2	17.5	17.8	18.1	18.4	18.6	18.8	19.0	19.2	19.4	19.6	19.8	19.9	20.0	20.2
21.0	14.2	15.0	15.7	16.3	16.8	17.2	17.6	18.0	18.3	18.6	18.8	19.1	19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.7
21.5	14.6	15.4	16.1	16.7	17.2	17.6	18.0	18.4	18.7	19.0	19.3	19.5	19.8	20.0	20.2	20.4	20.6	20.7	20.9	21.0	21.2
22.0	14.9	15.8	16.5	17.1	17.6	18.1	18.5	18.8	19.2	19.5	19.7	20.0	20.2	20.4	20.7	20.8	21.0	21.2	21.4	21.5	21.7
22.5	15.3	16.1	16.9	17.5	18.0	18.5	18.9	19.3	19.6	19.9	20.2	20.4	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.0	22.2
23.0	15.6	16.5	17.2	17.9	18.4	18.9	19.3	19.7	20.0	20.4	20.6	20.9	21.2	21.4	21.6	21.8	22.0	22.2	22.3	22.5	22.7
23.5	16.0	16.9	17.6	18.3	18.8	19.3	19.7	20.1	20.5	20.8	21.1	21.4	21.6	21.9	22.1	22.3	22.5	22.7	22.8	23.0	23.1
24.0	16.3	17.2	18.0	18.7	19.2	19.7	20.2	20.6	20.9	21.2	21.5	21.8	22.1	22.3	22.5	22.8	23.0	23.1	23.3	23.5	23.6
24.5	16.7	17.6	18.4	19.1	19.6	20.1	20.6	21.0	21.4	21.7	22.0	22.3	22.5	22.8	23.0	23.2	23.4	23.6	23.8	24.0	24.1
25.0	17.0	18.0	18.8	19.5	20.0	20.6	21.0	21.4	21.8	22.1	22.5	22.7	23.0	23.3	23.5	23.7	23.9	24.1	24.3	24.5	24.6
25.5	17.4	18.4	19.2	19.9	20.5	21.0	21.4	21.9	22.2	22.6	22.9	23.2	23.5	23.7	24.0	24.2	24.4	24.6	24.8	25.0	25.1
26.0	17.7	18.7	19.6	20.3	20.9	21.4	21.9	22.3	22.7	23.0	23.4	23.7	23.9	24.2	24.4	24.7	24.9	25.1	25.3	25.4	25.6
26.5	18.1	19.1	19.9	20.7	21.3	21.8	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.7	24.9	25.1	25.4	25.6	25.8	25.9	26.1
27.0	18.4	19.5	20.3	21.1	21.7	22.2	22.7	23.2	23.6	23.9	24.3	24.6	24.9	25.1	25.4	25.6	25.8	26.0	26.2	26.4	26.6
27.5	18.8	19.8	20.7	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.6	25.9	26.1	26.3	26.5	26.7	26.9	27.1
28.0	19.1	20.2	21.1	21.9	22.5	23.1	23.6	24.0	24.5	24.8	25.2	25.5	25.8	26.1	26.3	26.6	26.8	27.0	27.2	27.4	27.6
28.5	19.5	20.6	21.5	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.6	26.0	26.3	26.6	26.8	27.1	27.3	27.5	27.7	27.9	28.1
29.0	19.8	20.9	21.9	22.7	23.3	23.9	24.5	24.9	25.4	25.7	26.1	26.4	26.7	27.0	27.3	27.5	27.8	28.0	28.2	28.4	28.6
29.5	20.2	21.3	22.3	23.1	23.7	24.3	24.9	25.4	25.8	26.2	26.6	26.9	27.2	27.5	27.8	28.0	28.3	28.5	28.7	28.9	29.1
30.0	20.5	21.7	22.6	23.5	24.2	24.8	25.3	25.8	26.2	26.6	27.0	27.4	27.7	28.0	28.2	28.5	28.7	29.0	29.2	29.4	29.6
30.5	20.9	22.1	23.0	23.9	24.6	25.2	25.7	26.2	26.7	27.1	27.5	27.8	28.1	28.4	28.7	29.0	29.2	29.4	29.7	29.9	30.1
31.0	21.2	22.4	23.4	24.3	25.0	25.6	26.2	26.7	27.1	27.5	27.9	28.3	28.6	28.9	29.2	29.5	29.7	29.9	30.2	30.4	30.6
31.5	21.6	22.8	23.8	24.7	25.4	26.0	26.6	27.1	27.6	28.0	28.4	28.7	29.1	29.4	29.7	29.9	30.2	30.4	30.6	30.8	31.0
32.0	22.0	23.2	24.2	25.1	25.8	26.5	27.0	27.6	28.0	28.5	28.8	29.2	29.5	29.9	30.1	30.4	30.7	30.9	31.1	31.3	31.5
32.5	22.3	23.6	24.6	25.5	26.2	26.9	27.5	28.0	28.5	28.9	29.3	29.7	30.0	30.3	30.6	30.9	31.1	31.4	31.6	31.8	32.0
33.0	22.7	23.9	25.0	25.9	26.6	27.3	27.9	28.4	28.9	29.4	29.8	30.1	30.5	30.8	31.1	31.4	31.6	31.9	32.1	32.3	32.5
33.5	23.0	24.3	25.4	26.3	27.0	27.7	28.3	28.9	29.4	29.8	30.2	30.6	30.9	31.3	31.6	31.8	32.1	32.4	32.6	32.8	33.0
34.0	23.4	24.7	25.8	26.7	27.5	28.2	28.8	29.3	29.8	30.3	30.7	31.1	31.4	31.7	32.0	32.3	32.6	32.8	33.1	33.3	33.5
34.5	23.7	25.1	26.2	27.1	27.9	28.6	29.2	29.8	30.3	30.7	31.1	31.5	31.9	32.2	32.5	32.8	33.1	33.3	33.6	33.8	34.0
35.0	24.1	25.4	26.5	27.5	28.3	29.0	29.6	30.2	30.7	31.2	31.6	32.0	32.3	32.7	33.0	33.3	33.6	33.8	34.1	34.3	34.5
35.5	24.5	25.8	26.9	27.9	28.7	29.4	30.1	30.6	31.2	31.6	32.1	32.5	32.8	33.2	33.5	33.8	34.0	34.3	34.6	34.8	35.0
36.0	24.8	26.2	27.3	28.3	29.1	29.9	30.5	31.1	31.6	32.1	32.5	32.9	33.3	33.6	34.0	34.3	34.5	34.8	35.0	35.3	35.5
36.5	25.2	26.6	27.7	28.7	29.5	30.3	30.9	31.5	32.0	32.5	33.0	33.4	33.8	34.1	34.4	34.7	35.0	35.3	35.5	35.8	36.0
37.0	25.5	26.9	28.1	29.1	30.0	30.7	31.4	32.0	32.5	33.0	33.4	33.8	34.2	34.6	34.9	35.2	35.5	35.8	36.0	36.3	36.5
37.5	25.9	27.3	28.5	29.5	30.4	31.1	31.8	32.4	32.9	33.4	33.9	34.3	34.7	35.1	35.4	35.7	36.0	36.3	36.5	36.8	37.0
38.0	26.3	27.7	28.9	29.9	30.8	31.6	32.2	32.8	33.4	33.9	34.4	34.8	35.2	35.5	35.9	36.2	36.5	36.7	37.0	37.2	37.5
38.5	26.6	28.1	29.3	30.3	31.2	32.0	32.7	33.3	33.8	34.4	34.8	35.2	35.6	36.0	36.3	36.7	37.0	37.2	37.5	37.7	38.0
39.0	27.0	28.5	29.7	30.7	31.6	32.4	33.1	33.7	34.3	34.8	35.3	35.7	36.1	36.5	36.8	37.1	37.4	37.7	38.0	38.2	38.5
39.5	27.3	28.8	30.1	31.1	32.0	32.8	33.5	34.2	34.7	35.3	35.7	36.2	36.6	36.9	37.3	37.6	37.9	38.2	38.5	38.7	39.0
40.0	27.7	29.2	30.5	31.5	32.5	33.3	34.0	34.6	35.2	35.7	36.2	36.6	37.0	37.4	37.8	38.1	38.4	38.7	39.0	39.2	39.5
40.5	28.1	29.6	30.9	32.0	32.9	33.7	34.4	35.1	35.6	36.2	36.7	37.1	37.5	37.9	38.2	38.6	38.9	39.2	39.5	39.7	40.0
41.0	28.4	30.0	31.3	32.4	33.3	34.1	34.9	35.5	36.1	36.6	37.1	37.6	38.0	38.4	38.7	39.1	39.4	39.7	39.9	40.2	40.4
41.5	28.8	30.4	31.7	32.8	33.7	34.6	35.3	36.0	36.5	37.1	37.6	38.0	38.5	38.8	39.2	39.5	39.9	40.2	40.4	40.7	40.9
42.0	29.1	30.8	32.1	33.2	34.1	35.0	35.7	36.4	37.0	37.5	38.0	38.5	38.9	39.3	39.7	40.0	40.3	40.6	40.9	41.2	41.4
42.5	29.5	31.1	32.5	33.6	34.6	35.4	36.2	36.8	37.4	38.0	38.5	39.0	39.4	39.8	40.2	40.5	40.8	41.1	41.4	41.7	41.9
43.0	29.9	31.5	32.9	34.0	35.0	35.8	36.6	37.3	37.9	38.5	39.0	39.4	39.9	40.3	40.6	41.0	41.3	41.6	41.9	42.2	42.4
43.5	30.2	31.9	33.3	34.4	35.4	36.3	37.0	37.7	38.4	38.9	39.4	39.9	40.3	40.7	41.1	41.5	41.8	42.1	42.4	42.7	42.9
44.0	30.6	32.3	33.7	34.8	35.8	36.7	37.5	38.2	38.8	39.4	39.9	40.4	40.8	41.2	41.6	42.0	42.3	42.6	42.9	43.2	43.4
44.5	31.0	32.7	34.1	35.2	36.2	37.1	37.9	38.6	39.3	39.8	40.4	40.8	41.3	41.7	42.1	42.4	42.8	43.1	43.4	43.7	43.9
45.0	31.3	33.0	34.5	35.6	36.7	37.6	38.4	39.1	39.7	40.3	40.8	41.3	41.8	42.2	42.6	42.9	43.3	43.6	43.9	44.1	44.4
45.5	31.7	33.4	34.9	36.1	37.1	38.0	38.8	39.5	40.2	40.7	41.3	41.8	42.2	42.6	43.0	43.4	43.7	44.1	44.4	44.6	44.9
46.0	32.1	33.8	35.3	36.5	37.5	38.4	39.2	40.0	40.6	41.2	41.7	42.2	42.7	43.1	43.5	43.9	44.2	44.5	44.8	45.1	45.4
46.5	32.4	34.2	35.7	36.9	37.9	38.9	39.7	40.4	41.1	41.7	42.2	42.7	43.2	43.6	44.0	44.4	44.7	45.0	45.3	45.6	45.9
47.0	32.8	34.6	36.1	37.3	38.4	39.3	40.1	40.9	41.5	42.1	42.7	43.2	43.6	44.1	44.5	44.9	45.2	45.5	45.8	46.1	46.4
47.5	33.2	35.0	36.5	37.7	38.8	39.7	40.6	41.3	42.0	42.6	43.1	43.7	44.1	44.6	45.0	45.3	45.7	46.0	46.3	46.6	46.9
48.0	33.5	35.4	36.9	38.1	39.2	40.2	41.0	41.8	42.4	43.0	43.6	44.1	44.6	45.0	45.4	45.8	46.2	46.5	46.8	47.1	47.4
48.5	33.9	35.7	37.3	38.5	39.6	40.6	41.4	42.2	42.9	43.5	44.1	44.6	45.1	45.5	45.9	46.3	46.7	47.0	47.3	47.6	47.9
49.0	34.3	36.1	37.7	38.9	40.1	41.0	41.9	42.6	43.3	44.0	44.5	45.1	45.5	46.0	46.4	46.8	47.1	47.5	47.8	48.1	48.4
49.5	34.6	36.5	38.1	39.4	40.5	41.5	42.3	43.1	43.8	44.4	45.0	45.5	46.0	46.5	46.9	47.3	47.6	48.0	48.3	48.6	48.9
50.0	35.0	36.9	38.5	39.8	40.9	41.9	42.8	43.5	44.2	44.9	45.5	46.0	46.5	46.9	47.4	47.8	48.1	48.5	48.8	49.1	49.4

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR YELLOW BIRCH

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.8	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.4
6.0	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9
6.5	4.8	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.6	6.7	6.8	6.8	6.8	6.9
7.5	5.5	5.7	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4
8.0	5.9	6.1	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.6	7.7	7.8	7.8	7.9
8.5	6.2	6.5	6.7	6.8	7.0	7.1	7.2	7.4	7.5	7.6	7.7	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.4
9.0	6.6	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.7	8.7	8.8	8.9
9.5	6.9	7.2	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3
10.0	7.2	7.5	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.4	9.5	9.6	9.7	9.8	9.8
10.5	7.6	7.9	8.1	8.3	8.5	8.7	8.9	9.0	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3
11.0	7.9	8.2	8.5	8.7	8.9	9.1	9.3	9.4	9.6	9.7	9.8	9.9	10.1	10.2	10.3	10.4	10.5	10.5	10.6	10.7	10.8
11.5	8.2	8.6	8.8	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3
12.0	8.5	8.9	9.2	9.4	9.7	9.9	10.1	10.2	10.4	10.5	10.7	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	8.9	9.2	9.5	9.8	10.0	10.3	10.5	10.6	10.8	11.0	11.1	11.2	11.4	11.5	11.6	11.7	11.9	12.0	12.1	12.2	12.3
13.0	9.2	9.6	9.9	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.5	11.7	11.8	11.9	12.1	12.2	12.3	12.4	12.5	12.6	12.8
13.5	9.5	9.9	10.2	10.5	10.8	11.0	11.2	11.4	11.6	11.8	11.9	12.1	12.2	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2
14.0	9.8	10.2	10.6	10.9	11.1	11.4	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	13.0	13.1	13.2	13.4	13.5	13.6	13.7
14.5	10.1	10.5	10.9	11.2	11.5	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.8	14.0	14.1	14.2
15.0	10.4	10.9	11.2	11.6	11.9	12.1	12.4	12.6	12.8	13.0	13.2	13.4	13.5	13.7	13.9	14.0	14.2	14.3	14.4	14.6	14.7
15.5	10.7	11.2	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.1	14.3	14.5	14.6	14.8	14.9	15.0	15.2
16.0	11.0	11.5	11.9	12.3	12.6	12.9	13.1	13.4	13.6	13.8	14.0	14.2	14.4	14.6	14.8	14.9	15.1	15.2	15.4	15.5	15.7
16.5	11.3	11.8	12.2	12.6	12.9	13.2	13.5	13.8	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.8	16.0	16.1
17.0	11.6	12.1	12.6	13.0	13.3	13.6	13.9	14.2	14.4	14.6	14.9	15.1	15.3	15.5	15.6	15.8	16.0	16.2	16.3	16.5	16.6
17.5	11.9	12.4	12.9	13.3	13.6	14.0	14.3	14.5	14.8	15.0	15.3	15.5	15.7	15.9	16.1	16.3	16.4	16.6	16.8	17.0	17.1
18.0	12.2	12.7	13.2	13.6	14.0	14.3	14.6	14.9	15.2	15.4	15.7	15.9	16.1	16.3	16.5	16.7	16.9	17.1	17.3	17.4	17.6
18.5	12.5	13.1	13.5	14.0	14.3	14.7	15.0	15.3	15.6	15.8	16.1	16.3	16.5	16.8	17.0	17.2	17.4	17.5	17.7	17.9	18.1
19.0	12.8	13.4	13.9	14.3	14.7	15.0	15.4	15.7	16.0	16.2	16.5	16.7	17.0	17.2	17.4	17.6	17.8	18.0	18.2	18.4	18.6
19.5	13.0	13.6	14.2	14.6	15.0	15.4	15.7	16.0	16.3	16.6	16.9	17.1	17.4	17.6	17.8	18.1	18.3	18.5	18.7	18.9	19.0
20.0	13.3	13.9	14.5	14.9	15.4	15.7	16.1	16.4	16.7	17.0	17.3	17.5	17.8	18.0	18.3	18.5	18.7	18.9	19.1	19.3	19.5
20.5	13.6	14.2	14.8	15.3	15.7	16.1	16.4	16.8	17.1	17.4	17.7	18.0	18.2	18.5	18.7	18.9	19.2	19.4	19.6	19.8	20.0
21.0	13.9	14.5	15.1	15.6	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.4	18.6	18.9	19.1	19.4	19.6	19.8	20.1	20.3	20.5
21.5	14.1	14.8	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	18.5	18.8	19.0	19.3	19.6	19.8	20.1	20.3	20.5	20.8	21.0
22.0	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.6	18.9	19.2	19.5	19.7	20.0	20.3	20.5	20.8	21.0	21.2	21.5
22.5	14.7	15.4	16.0	16.5	17.0	17.5	17.9	18.2	18.6	18.9	19.3	19.6	19.9	20.2	20.4	20.7	21.0	21.2	21.5	21.7	21.9
23.0	14.9	15.7	16.3	16.8	17.3	17.8	18.2	18.6	19.0	19.3	19.7	20.0	20.3	20.6	20.9	21.1	21.4	21.7	21.9	22.2	22.4
23.5	15.2	15.9	16.6	17.1	17.7	18.1	18.6	19.0	19.3	19.7	20.0	20.4	20.7	21.0	21.3	21.6	21.9	22.1	22.4	22.6	22.9
24.0	15.4	16.2	16.9	17.5	18.0	18.5	18.9	19.3	19.7	20.1	20.4	20.8	21.1	21.4	21.7	22.0	22.3	22.6	22.8	23.1	23.4
24.5	15.7	16.5	17.2	17.8	18.3	18.8	19.2	19.7	20.1	20.5	20.8	21.2	21.5	21.8	22.1	22.4	22.7	23.0	23.3	23.6	23.9
25.0	15.9	16.7	17.4	18.1	18.6	19.1	19.6	20.0	20.4	20.8	21.2	21.6	21.9	22.2	22.6	22.9	23.2	23.5	23.8	24.1	24.3
25.5	16.2	17.0	17.7	18.4	18.9	19.4	19.9	20.4	20.8	21.2	21.6	22.0	22.3	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.8
26.0	16.4	17.3	18.0	18.6	19.2	19.8	20.3	20.7	21.2	21.6	22.0	22.4	22.7	23.1	23.4	23.7	24.1	24.4	24.7	25.0	25.3
26.5	16.7	17.5	18.3	18.9	19.5	20.1	20.6	21.1	21.5	21.9	22.4	22.7	23.1	23.5	23.8	24.2	24.5	24.8	25.1	25.5	25.8
27.0	16.9	17.8	18.6	19.2	19.8	20.4	20.9	21.4	21.9	22.3	22.7	23.1	23.5	23.9	24.3	24.6	24.9	25.3	25.6	25.9	26.2
27.5	17.1	18.0	18.8	19.5	20.1	20.7	21.3	21.8	22.2	22.7	23.1	23.5	23.9	24.3	24.7	25.0	25.4	25.7	26.1	26.4	26.7
28.0	17.4	18.3	19.1	19.8	20.4	21.0	21.6	22.1	22.6	23.0	23.5	23.9	24.3	24.7	25.1	25.5	25.8	26.2	26.5	26.9	27.2
28.5	17.6	18.5	19.4	20.1	20.7	21.3	21.9	22.4	22.9	23.4	23.9	24.3	24.7	25.1	25.5	25.9	26.3	26.6	27.0	27.3	27.7
29.0	17.8	18.8	19.6	20.4	21.0	21.7	22.2	22.8	23.3	23.8	24.2	24.7	25.1	25.5	25.9	26.3	26.7	27.1	27.4	27.8	28.1
29.5	18.0	19.0	19.9	20.6	21.3	22.0	22.6	23.1	23.6	24.1	24.6	25.1	25.5	25.9	26.3	26.7	27.1	27.5	27.9	28.3	28.6
30.0	18.3	19.3	20.1	20.9	21.6	22.3	22.9	23.4	24.0	24.5	25.0	25.4	25.9	26.3	26.8	27.2	27.6	28.0	28.4	28.7	29.1
30.5	18.5	19.5	20.4	21.2	21.9	22.6	23.2	23.8	24.3	24.8	25.3	25.8	26.3	26.7	27.2	27.6	28.0	28.4	28.8	29.2	29.6
31.0	18.7	19.7	20.7	21.5	22.2	22.9	23.5	24.1	24.7	25.2	25.7	26.2	26.7	27.1	27.6	28.0	28.4	28.9	29.3	29.7	30.0
31.5	18.9	20.0	20.9	21.7	22.5	23.2	23.8	24.4	25.0	25.5	26.1	26.6	27.1	27.5	28.0	28.4	28.9	29.3	29.7	30.1	30.5
32.0	19.1	20.2	21.2	22.0	22.8	23.5	24.1	24.7	25.3	25.9	26.4	26.9	27.4	27.9	28.4	28.9	29.3	29.7	30.2	30.6	31.0
32.5	19.3	20.4	21.4	22.3	23.0	23.8	24.4	25.1	25.7	26.2	26.8	27.3	27.8	28.3	28.8	29.3	29.7	30.2	30.6	31.0	31.5
33.0	19.5	20.7	21.6	22.5	23.3	24.1	24.7	25.4	26.0	26.6	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.6	31.1	31.5	31.9
33.5	19.7	20.9	21.9	22.8	23.6	24.3	25.0	25.7	26.3	26.9	27.5	28.1	28.6	29.1	29.6	30.1	30.6	31.1	31.5	32.0	32.4
34.0	19.9	21.1	22.1	23.0	23.9	24.6	25.3	26.0	26.7	27.3	27.9	28.4	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.4	32.9
34.5	20.1	21.3	22.4	23.3	24.1	24.9	25.6	26.3	27.0	27.6	28.2	28.8	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4
35.0	20.3	21.5	22.6	23.5	24.4	25.2	25.9	26.7	27.3	28.0	28.6	29.2	29.7	30.3	30.8	31.4	31.9	32.4	32.9	33.4	33.8
35.5	20.5	21.7	22.8	23.8	24.7	25.5	26.2	27.0	27.6	28.3	28.9	29.5	30.1	30.7	31.2	31.8	32.3	32.8	33.3	33.8	34.3
36.0	20.7	21.9	23.0	24.0	24.9	25.8	26.5	27.3	28.0	28.6	29.3	29.9	30.5	31.1	31.6	32.2	32.7	33.3	33.8	34.3	34.8
36.5	20.9	22.1	23.3	24.3	25.2	26.0	26.8	27.6	28.3	29.0	29.6	30.3	30.9	31.5	32.0	32.6	33.2	33.7	34.2	34.7	35.3
37.0	21.0	22.3	23.5	24.5	25.4	26.3	27.1	27.9	28.6	29.3	30.0	30.6	31.2	31.8	32.4	33.0	33.6	34.1	34.7	35.2	35.7
37.5	21.2	22.5	23.7	24.7	25.7	26.6	27.4	28.2	28.9	29.6	30.3	31.0	31.6	32.2	32.8	33.4	34.0	34.6	35.1	35.7	36.2
38.0	21.4	22.7	23.9	25.0	26.0	26.8	27.7	28.5	29.2	30.0	30.7	31.3	32.0	32.6	33.2	33.8	34.4	35.0	35.6	36.1	36.7
38.5	21.6	22.9	24.1	25.2	26.2	27.1	28.0	28.8	29.6	30.3	31.0	31.7	32.3	33.0	33.6	34.2	34.8	35.4	36.0	36.6	37.1
39.0	21.7	23.1	24.3	25.4	26.5	27.4	28.3	29.1	29.9	30.6	31.3	32.0	32.7	33.4	34.0	34.6	35.3	35.9	36.5	37.0	37.6
39.5	21.9	23.3	24.6	25.7	26.7	27.6	28.5	29.4	30.2	30.9	31.7	32.4	33.1	33.8	34.4	35.1	35.7	36.3	36.9	37.5	38.1
40.0	22.1	23.5	24.8	25.9	26.9	27.9	28.8	29.7	30.5	31.3	32.0	32.7	33.4	34.1	34.8	35.5	36.1	36.7	37.3	37.9	38.5
40.5	22.2	23.7	25.0	26.1	27.2	28.2	29.1	30.0	30.8	31.6	32.4	33.1	33.8	34.5	35.2	35.9	36.5	37.2	37.8	38.4	39.0
41.0	22.4	23.9	25.2	26.3	27.4	28.4	29.4	30.2	31.1	31.9	32.7	33.4	34.2	34.9	35.6	36.3	36.9	37.6	38.2	38.9	39.5
41.5	22.5	24.0	25.4	26.6	27.7	28.7	29.6	30.5	31.4	32.2	33.0	33.8	34.5	35.3	36.0	36.7	37.3	38.0	38.7	39.3	39.9
42.0	22.7	24.2	25.6	26.8	27.9	28.9	29.9	30.8	31.7	32.5	33.4	34.1	34.9	35.6	36.4	37.1	37.8	38.4	39.1	39.8	40.4
42.5	22.8	24.4	25.8	27.0	28.1	29.2	30.2	31.1	32.0	32.9	33.7	34.5	35.3	36.0	36.7	37.5	38.2	38.9	39.6	40.2	40.9
43.0	23.0	24.6	25.9	27.2	28.4	29.4	30.4	31.4	32.3	33.2	34.0	34.8	35.6	36.4	37.1	37.9	38.6	39.3	40.0	40.7	41.4
43.5	23.1	24.7	26.1	27.4	28.6	29.7	30.7	31.7	32.6	33.5	34.3	35.2	36.0	36.8	37.5	38.3	39.0	39.7	40.4	41.1	41.8
44.0	23.3	24.9	26.3	27.6	28.8	29.9	31.0	31.9	32.9	33.8	34.7	35.5	36.3	37.1	37.9	38.7	39.4	40.2	40.9	41.6	42.3
44.5	23.4	25.0	26.5	27.8	29.0	30.2	31.2	32.2	33.2	34.1	35.0	35.8	36.7	37.5	38.3	39.1	39.8	40.6	41.3	42.0	42.8
45.0	23.5	25.2	26.7	28.0	29.2	30.4	31.5	32.5	33.5	34.4	35.3	36.2	37.0	37.9	38.7	39.5	40.2	41.0	41.8	42.5	43.2
45.5	23.7	25.4	26.9	28.2	29.5	30.6	31.7	32.8	33.7	34.7	35.6	36.5	37.4	38.2	39.0	39.9	40.6	41.4	42.2	42.9	43.7
46.0	23.8	25.5	27.0	28.4	29.7	30.9	32.0	33.0	34.0	35.0	35.9	36.8	37.7	38.6	39.4	40.2	41.1	41.8	42.6	43.4	44.1
46.5	23.9	25.7	27.2	28.6	29.9	31.1	32.2	33.3	34.3	35.3	36.3	37.2	38.1	38.9	39.8	40.6	41.5	42.3	43.1	43.8	44.6
47.0	24.0	25.8	27.4	28.8	30.1	31.3	32.5	33.6	34.6	35.6	36.6	37.5	38.4	39.3	40.2	41.0	41.9	42.7	43.5	44.3	45.1
47.5	24.1	26.0	27.5	29.0	30.3	31.5	32.7	33.8	34.9	35.9	36.9	37.8	38.8	39.7	40.6	41.4	42.3	43.1	43.9	44.7	45.5
48.0	24.3	26.1	27.7	29.2	30.5	31.8	33.0	34.1	35.2	36.2	37.2	38.2	39.1	40.0	40.9	41.8	42.7	43.5	44.4	45.2	46.0
48.5	24.4	26.2	27.9	29.4	30.7	32.0	33.2	34.3	35.4	36.5	37.5	38.5	39.5	40.4	41.3	42.2	43.1	44.0	44.8	45.6	46.5
49.0	24.5	26.4	28.0	29.5	30.9	32.2	33.4	34.6	35.7	36.8	37.8	38.8	39.8	40.7	41.7	42.6	43.5	44.4	45.2	46.1	46.9
49.5	24.6	26.5	28.2	29.7	31.1	32.4	33.7	34.9	36.0	37.1	38.1	39.1	40.1	41.1	42.1	43.0	43.9	44.8	45.7	46.5	47.4
50.0	24.7	26.6	28.3	29.9	31.3	32.7	33.9	35.1	36.3	37.4	38.4	39.5	40.5	41.5	42.4	43.4	44.3	45.2	46.1	47.0	47.9

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR HICKORY

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.3	3.5	3.7	3.8	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9	4.9
5.5	3.6	3.9	4.0	4.2	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4
6.0	3.9	4.2	4.4	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.3	4.5	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	4.6	4.9	5.1	5.4	5.5	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9
7.5	4.9	5.2	5.5	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.4
8.0	5.2	5.6	5.9	6.1	6.3	6.5	6.7	6.8	6.9	7.0	7.2	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.8	7.8	7.9
8.5	5.6	5.9	6.2	6.5	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.4
9.0	5.9	6.3	6.6	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.2	8.3	8.3	8.4	8.5	8.6	8.7	8.7	8.8	8.9
9.5	6.2	6.6	7.0	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.4
10.0	6.5	7.0	7.3	7.6	7.9	8.1	8.3	8.5	8.7	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.8	9.8
10.5	6.8	7.3	7.7	8.0	8.3	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.3
11.0	7.2	7.7	8.1	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.8
11.5	7.5	8.0	8.4	8.8	9.1	9.3	9.6	9.8	9.9	10.1	10.3	10.4	10.5	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3
12.0	7.8	8.3	8.8	9.1	9.4	9.7	10.0	10.2	10.4	10.5	10.7	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	8.1	8.7	9.1	9.5	9.8	10.1	10.4	10.6	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3
13.0	8.4	9.0	9.5	9.9	10.2	10.5	10.8	11.0	11.2	11.4	11.6	11.8	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.7	12.8
13.5	8.8	9.4	9.9	10.3	10.6	10.9	11.2	11.4	11.7	11.9	12.0	12.2	12.4	12.5	12.6	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.1	9.7	10.2	10.6	11.0	11.3	11.6	11.9	12.1	12.3	12.5	12.6	12.8	13.0	13.1	13.2	13.3	13.5	13.6	13.7	13.8
14.5	9.4	10.0	10.6	11.0	11.4	11.7	12.0	12.3	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.8	13.9	14.1	14.2	14.3
15.0	9.7	10.4	10.9	11.4	11.8	12.1	12.4	12.7	12.9	13.2	13.4	13.5	13.7	13.9	14.0	14.2	14.3	14.4	14.5	14.7	14.8
15.5	10.0	10.7	11.3	11.8	12.2	12.5	12.8	13.1	13.4	13.6	13.8	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.0	15.1	15.2
16.0	10.4	11.1	11.6	12.1	12.6	12.9	13.2	13.5	13.8	14.0	14.2	14.4	14.6	14.8	15.0	15.1	15.2	15.4	15.5	15.6	15.7
16.5	10.7	11.4	12.0	12.5	12.9	13.3	13.6	13.9	14.2	14.5	14.7	14.9	15.1	15.3	15.4	15.6	15.7	15.9	16.0	16.1	16.2
17.0	11.0	11.7	12.4	12.9	13.3	13.7	14.1	14.4	14.6	14.9	15.1	15.3	15.5	15.7	15.9	16.0	16.2	16.3	16.5	16.6	16.7
17.5	11.3	12.1	12.7	13.3	13.7	14.1	14.5	14.8	15.1	15.3	15.6	15.8	16.0	16.2	16.4	16.6	16.8	17.0	17.1	17.3	17.4	17.6	17.7
18.0	11.6	12.4	13.1	13.6	14.1	14.5	14.9	15.2	15.5	15.8	16.0	16.2	16.4	16.6	16.8	17.0	17.1	17.3	17.4	17.6	17.7
18.5	11.9	12.8	13.4	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.4	16.7	16.9	17.1	17.3	17.5	17.6	17.8	17.9	18.1	18.2
19.0	12.2	13.1	13.8	14.4	14.9	15.3	15.7	16.0	16.3	16.6	16.9	17.1	17.3	17.6	17.7	17.9	18.1	18.3	18.4	18.5	18.7
19.5	12.6	13.4	14.1	14.7	15.3	15.7	16.1	16.4	16.8	17.1	17.3	17.6	17.8	18.0	18.2	18.4	18.6	18.7	18.9	19.0	19.2
20.0	12.9	13.8	14.5	15.1	15.6	16.1	16.5	16.9	17.2	17.5	17.8	18.0	18.2	18.5	18.7	18.9	19.0	19.2	19.4	19.5	19.7
20.5	13.2	14.1	14.9	15.5	16.0	16.5	16.9	17.3	17.6	17.9	18.2	18.5	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.0	20.2
21.0	13.5	14.4	15.2	15.8	16.4	16.9	17.3	17.7	18.0	18.4	18.6	18.9	19.2	19.4	19.6	19.8	20.0	20.2	20.3	20.5	20.6
21.5	13.8	14.8	15.6	16.2	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.4	19.6	19.8	20.1	20.3	20.5	20.6	20.8	21.0	21.1
22.0	14.1	15.1	15.9	16.6	17.2	17.7	18.1	18.5	18.9	19.2	19.5	19.8	20.1	20.3	20.5	20.7	20.9	21.1	21.3	21.5	21.6
22.5	14.4	15.4	16.3	17.0	17.5	18.1	18.5	18.9	19.3	19.6	20.0	20.2	20.5	20.8	21.0	21.2	21.4	21.6	21.8	22.0	22.1
23.0	14.7	15.8	16.6	17.3	17.9	18.5	18.9	19.4	19.7	20.1	20.4	20.7	21.0	21.2	21.4	21.7	21.9	22.1	22.3	22.4	22.6
23.5	15.1	16.1	17.0	17.7	18.3	18.9	19.3	19.8	20.2	20.5	20.8	21.1	21.4	21.7	21.9	22.1	22.4	22.6	22.7	22.9	23.1
24.0	15.4	16.4	17.3	18.1	18.7	19.2	19.7	20.2	20.6	20.9	21.3	21.6	21.9	22.1	22.4	22.6	22.8	23.0	23.2	23.4	23.6
24.5	15.7	16.8	17.7	18.4	19.1	19.6	20.1	20.6	21.0	21.4	21.7	22.0	22.3	22.6	22.8	23.1	23.3	23.5	23.7	23.9	24.1
25.0	16.0	17.1	18.0	18.8	19.5	20.0	20.5	21.0	21.4	21.8	22.1	22.5	22.8	23.0	23.3	23.5	23.8	24.0	24.2	24.4	24.6
25.5	16.3	17.4	18.4	19.2	19.8	20.4	20.9	21.4	21.8	22.2	22.6	22.9	23.2	23.5	23.8	24.0	24.2	24.5	24.7	24.9	25.1
26.0	16.6	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.3	22.7	23.0	23.4	23.7	23.9	24.2	24.5	24.7	24.9	25.2	25.4	25.6
26.5	16.9	18.1	19.1	19.9	20.6	21.2	21.8	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.7	24.9	25.2	25.4	25.6	25.8	26.0
27.0	17.2	18.4	19.4	20.3	21.0	21.6	22.2	22.7	23.1	23.5	23.9	24.2	24.6	24.9	25.1	25.4	25.7	25.9	26.1	26.3	26.5
27.5	17.5	18.8	19.8	20.6	21.3	22.0	22.6	23.1	23.5	23.9	24.3	24.7	25.0	25.3	25.6	25.9	26.1	26.4	26.6	26.8	27.0
28.0	17.8	19.1	20.1	21.0	21.7	22.4	23.0	23.5	23.9	24.4	24.8	25.1	25.5	25.8	26.1	26.3	26.6	26.8	27.1	27.3	27.5
28.5	18.1	19.4	20.5	21.3	22.1	22.8	23.4	23.9	24.4	24.8	25.2	25.6	25.9	26.2	26.5	26.8	27.1	27.3	27.6	27.8	28.0
29.0	18.4	19.7	20.8	21.7	22.5	23.2	23.8	24.3	24.8	25.2	25.6	26.0	26.4	26.7	27.0	27.3	27.5	27.8	28.0	28.3	28.5
29.5	18.7	20.1	21.2	22.1	22.9	23.5	24.2	24.7	25.2	25.7	26.1	26.4	26.8	27.1	27.4	27.7	28.0	28.3	28.5	28.8	29.0
30.0	19.0	20.4	21.5	22.4	23.2	23.9	24.6	25.1	25.6	26.1	26.5	26.9	27.3	27.6	27.9	28.2	28.5	28.8	29.0	29.2	29.5
30.5	19.4	20.7	21.9	22.8	23.6	24.3	25.0	25.5	26.0	26.5	26.9	27.3	27.7	28.0	28.4	28.7	29.0	29.2	29.5	29.7	30.0
31.0	19.7	21.1	22.2	23.2	24.0	24.7	25.4	25.9	26.5	26.9	27.4	27.8	28.1	28.5	28.8	29.1	29.4	29.7	30.0	30.2	30.5
31.5	20.0	21.4	22.5	23.5	24.4	25.1	25.8	26.3	26.9	27.4	27.8	28.2	28.6	29.0	29.3	29.6	29.9	30.2	30.4	30.7	30.9
32.0	20.3	21.7	22.9	23.9	24.7	25.5	26.2	26.7	27.3	27.8	28.2	28.7	29.0	29.4	29.7	30.1	30.4	30.7	30.9	31.2	31.4
32.5	20.6	22.0	23.2	24.2	25.1	25.9	26.6	27.2	27.7	28.2	28.7	29.1	29.5	29.9	30.2	30.5	30.8	31.1	31.4	31.7	31.9
33.0	20.9	22.4	23.6	24.6	25.5	26.3	26.9	27.6	28.1	28.6	29.1	29.5	29.9	30.3	30.7	31.0	31.3	31.6	31.9	32.2	32.4
33.5	21.2	22.7	23.9	25.0	25.9	26.6	27.3	28.0	28.5	29.1	29.5	30.0	30.4	30.8	31.1	31.5	31.8	32.1	32.4	32.6	32.9
34.0	21.5	23.0	24.3	25.3	26.2	27.0	27.7	28.4	29.0	29.5	30.0	30.4	30.8	31.2	31.6	31.9	32.2	32.6	32.8	33.1	33.4
34.5	21.8	23.3	24.6	25.7	26.6	27.4	28.1	28.8	29.4	29.9	30.4	30.9	31.3	31.7	32.0	32.4	32.7	33.0	33.3	33.6	33.9
35.0	22.1	23.7	25.0	26.0	27.0	27.8	28.5	29.2	29.8	30.3	30.8	31.3	31.7	32.1	32.5	32.9	33.2	33.5	33.8	34.1	34.4
35.5	22.4	24.0	25.3	26.4	27.4	28.2	28.9	29.6	30.2	30.8	31.3	31.7	32.2	32.6	33.0	33.3	33.7	34.0	34.3	34.6	34.9
36.0	22.7	24.3	25.6	26.8	27.7	28.6	29.3	30.0	30.6	31.2	31.7	32.2	32.6	33.0	33.4	33.8	34.1	34.5	34.8	35.1	35.3
36.5	23.0	24.6	26.0	27.1	28.1	29.0	29.7	30.4	31.0	31.6	32.1	32.6	33.1	33.5	33.9	34.2	34.6	34.9	35.2	35.5	35.8
37.0	23.3	24.9	26.3	27.5	28.5	29.3	30.1	30.8	31.4	32.0	32.6	33.0	33.5	33.9	34.3	34.7	35.1	35.4	35.7	36.0	36.3
37.5	23.6	25.3	26.7	27.8	28.8	29.7	30.5	31.2	31.9	32.4	33.0	33.5	34.0	34.4	34.8	35.2	35.5	35.9	36.2	36.5	36.8
38.0	23.9	25.6	27.0	28.2	29.2	30.1	30.9	31.6	32.3	32.9	33.4	33.9	34.4	34.8	35.2	35.6	36.0	36.4	36.7	37.0	37.3
38.5	24.2	25.9	27.3	28.5	29.6	30.5	31.3	32.0	32.7	33.3	33.8	34.4	34.8	35.3	35.7	36.1	36.5	36.8	37.2	37.5	37.8
39.0	24.5	26.2	27.7	28.9	30.0	30.9	31.7	32.4	33.1	33.7	34.3	34.8	35.3	35.7	36.2	36.6	36.9	37.3	37.6	38.0	38.3
39.5	24.8	26.5	28.0	29.3	30.3	31.3	32.1	32.8	33.5	34.1	34.7	35.2	35.7	36.2	36.6	37.0	37.4	37.8	38.1	38.5	38.8
40.0	25.0	26.9	28.4	29.6	30.7	31.6	32.5	33.2	33.9	34.6	35.1	35.7	36.2	36.6	37.1	37.5	37.9	38.2	38.6	38.9	39.3
40.5	25.3	27.2	28.7	30.0	31.1	32.0	32.9	33.6	34.3	35.0	35.6	36.1	36.6	37.1	37.5	38.0	38.3	38.7	39.1	39.4	39.7
41.0	25.6	27.5	29.0	30.3	31.4	32.4	33.3	34.1	34.8	35.4	36.0	36.5	37.1	37.5	38.0	38.4	38.8	39.2	39.6	39.9	40.2
41.5	25.9	27.8	29.4	30.7	31.8	32.8	33.7	34.5	35.2	35.8	36.4	37.0	37.5	38.0	38.4	38.9	39.3	39.7	40.0	40.4	40.7
42.0	26.2	28.1	29.7	31.0	32.2	33.2	34.1	34.9	35.6	36.2	36.9	37.4	37.9	38.4	38.9	39.3	39.8	40.1	40.5	40.9	41.2
42.5	26.5	28.5	30.0	31.4	32.5	33.5	34.4	35.3	36.0	36.7	37.3	37.9	38.4	38.9	39.4	39.8	40.2	40.6	41.0	41.4	41.7
43.0	26.8	28.8	30.4	31.7	32.9	33.9	34.8	35.7	36.4	37.1	37.7	38.3	38.8	39.3	39.8	40.3	40.7	41.1	41.5	41.8	42.2
43.5	27.1	29.1	30.7	32.1	33.3	34.3	35.2	36.1	36.8	37.5	38.1	38.7	39.3	39.8	40.3	40.7	41.2	41.6	42.0	42.3	42.7
44.0	27.4	29.4	31.1	32.4	33.6	34.7	35.6	36.5	37.2	37.9	38.6	39.2	39.7	40.2	40.7	41.2	41.6	42.1	42.5	42.9	43.3	43.7
44.5	27.7	29.7	31.4	32.8	34.0	35.1	36.0	36.9	37.6	38.3	39.0	39.6	40.2	40.7	41.2	41.6	42.1	42.5	42.9	43.3	43.8	44.1
45.0	28.0	30.0	31.7	33.1	34.4	35.4	36.4	37.3	38.0	38.8	39.4	40.0	40.6	41.1	41.6	42.1	42.6	43.0	43.5	43.9	44.3	44.6
45.5	28.3	30.4	32.1	33.5	34.7	35.8	36.8	37.7	38.5	39.2	39.8	40.5	41.0	41.6	42.1	42.6	43.0	43.5	43.9	44.3	44.7	45.1
46.0	28.6	30.7	32.4	33.8	35.1	36.2	37.2	38.1	38.9	39.6	40.3	40.9	41.5	42.0	42.5	43.0	43.5	43.9	44.3	44.7	45.1
46.5	28.9	31.0	32.7	34.2	35.5	36.6	37.6	38.5	39.3	40.0	40.7	41.3	41.9	42.5	43.0	43.5	44.0	44.4	44.9	45.3	45.7	46.1
47.0	29.1	31.3	33.1	34.5	35.8	37.0	38.0	38.9	39.7	40.4	41.1	41.8	42.4	42.9	43.5	44.0	44.4	44.9	45.3	45.8	46.2	46.6
47.5	29.4	31.6	33.4	34.9	36.2	37.3	38.3	39.3	40.1	40.9	41.6	42.2	42.8	43.4	43.9	44.4	44.9	45.3	45.8	46.3	46.7	47.1
48.0	29.7	31.9	33.7	35.2	36.6	37.7	38.7	39.7	40.5	41.3	42.0	42.6	43.3	43.8	44.4	44.9	45.4	45.8	46.3	46.7	47.2	47.6
48.5	30.0	32.2	34.1	35.6	36.9	38.1	39.1	40.1	40.9	41.7	42.4	43.1	43.7	44.3	44.8	45.3	45.8	46.3	46.8	47.2	47.6	48.0
49.0	30.3	32.5	34.4	35.9	37.3	38.5	39.5	40.5	41.3	42.1	42.8	43.5	44.1	44.7	45.3	45.8	46.3	46.8	47.2	47.7	48.1	48.5
49.5	30.6	32.9	34.7	36.3	37.6	38.8	39.9	40.9	41.7	42.5	43.3	43.9	44.6	45.2	45.7	46.3	46.8	47.2	47.7	48.2	48.6	49.0
50.0	30.9	33.2	35.0	36.6	38.0	39.2	40.3	41.3	42.1	42.9	43.7	44.4	45.0	45.6	46.2	46.7	47.2	47.7	48.2	48.6	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR HACKBERRY

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.7	3.8	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	4.0	4.2	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.7	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4
7.0	5.1	5.3	5.5	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.4	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.8	6.1	6.3	6.5	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	6.1	6.4	6.7	6.9	7.1	7.2	7.3	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.5	6.8	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.9
9.5	6.8	7.2	7.4	7.7	7.9	8.0	8.2	8.3	8.4	8.6	8.7	8.8	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3	9.4
10.0	7.2	7.5	7.8	8.1	8.3	8.4	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.5	7.9	8.2	8.4	8.7	8.9	9.0	9.2	9.3	9.4	9.6	9.7	9.8	9.9	9.9	10.0	10.1	10.2	10.2	10.3	10.4
11.0	7.9	8.2	8.6	8.8	9.1	9.3	9.4	9.6	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8
11.5	8.2	8.6	8.9	9.2	9.5	9.7	9.9	10.0	10.2	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.0	11.1	11.2	11.3	11.3
12.0	8.5	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.6	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.8
12.5	8.9	9.3	9.7	10.0	10.3	10.5	10.7	10.9	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3
13.0	9.2	9.7	10.1	10.4	10.7	10.9	11.1	11.3	11.5	11.6	11.8	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.8
13.5	9.5	10.0	10.4	10.8	11.1	11.3	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.9	10.4	10.8	11.1	11.4	11.7	11.9	12.1	12.3	12.5	12.7	12.8	12.9	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8
14.5	10.2	10.7	11.2	11.5	11.8	12.1	12.4	12.6	12.8	12.9	13.1	13.3	13.4	13.5	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	10.5	11.1	11.5	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.5	13.7	13.9	14.0	14.1	14.2	14.4	14.5	14.6	14.7	14.8
15.5	10.9	11.4	11.9	12.3	12.6	12.9	13.2	13.4	13.6	13.8	14.0	14.2	14.3	14.5	14.6	14.7	14.8	15.0	15.1	15.2	15.3
16.0	11.2	11.8	12.3	12.7	13.0	13.3	13.6	13.8	14.0	14.2	14.4	14.6	14.8	14.9	15.0	15.2	15.3	15.4	15.5	15.7	15.8
16.5	11.5	12.1	12.6	13.0	13.4	13.7	14.0	14.2	14.5	14.7	14.9	15.0	15.2	15.4	15.5	15.6	15.8	15.9	16.0	16.1	16.2
17.0	11.8	12.5	13.0	13.4	13.8	14.1	14.4	14.7	14.9	15.1	15.3	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.5	16.6	16.7
17.5	12.2	12.8	13.3	13.8	14.2	14.5	14.8	15.1	15.3	15.5	15.7	15.9	16.1	16.3	16.4	16.6	16.7	16.9	17.0	17.1	17.2
18.0	12.5	13.2	13.7	14.2	14.5	14.9	15.2	15.5	15.7	16.0	16.2	16.4	16.6	16.7	16.9	17.0	17.2	17.3	17.5	17.6	17.7
18.5	12.8	13.5	14.1	14.5	14.9	15.3	15.6	15.9	16.2	16.4	16.6	16.8	17.0	17.2	17.4	17.5	17.7	17.8	17.9	18.1	18.2
19.0	13.1	13.8	14.4	14.9	15.3	15.7	16.0	16.3	16.6	16.8	17.0	17.3	17.5	17.6	17.8	18.0	18.1	18.3	18.4	18.6	18.7
19.5	13.5	14.2	14.8	15.3	15.7	16.1	16.4	16.7	17.0	17.2	17.5	17.7	17.9	18.1	18.3	18.4	18.6	18.8	18.9	19.0	19.2
20.0	13.8	14.5	15.1	15.6	16.1	16.5	16.8	17.1	17.4	17.7	17.9	18.1	18.3	18.5	18.7	18.9	19.1	19.2	19.4	19.5	19.7
20.5	14.1	14.8	15.5	16.0	16.5	16.9	17.2	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.2	19.4	19.5	19.7	19.9	20.0	20.2
21.0	14.4	15.2	15.8	16.4	16.8	17.2	17.6	17.9	18.2	18.5	18.8	19.0	19.2	19.4	19.6	19.8	20.0	20.2	20.3	20.5	20.6
21.5	14.7	15.5	16.2	16.7	17.2	17.6	18.0	18.3	18.7	18.9	19.2	19.4	19.7	19.9	20.1	20.3	20.5	20.7	20.8	21.0	21.1
22.0	15.0	15.8	16.5	17.1	17.6	18.0	18.4	18.7	19.1	19.4	19.6	19.9	20.1	20.3	20.6	20.8	20.9	21.1	21.3	21.5	21.6
22.5	15.3	16.2	16.9	17.4	18.0	18.4	18.8	19.2	19.5	19.8	20.1	20.3	20.6	20.8	21.0	21.2	21.4	21.6	21.8	21.9	22.1
23.0	15.6	16.5	17.2	17.8	18.3	18.8	19.2	19.6	19.9	20.2	20.5	20.8	21.0	21.2	21.5	21.7	21.9	22.1	22.3	22.4	22.6
23.5	16.0	16.8	17.6	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.4	21.7	21.9	22.1	22.3	22.5	22.7	22.9	23.1
24.0	16.3	17.2	17.9	18.5	19.1	19.5	20.0	20.4	20.7	21.0	21.3	21.6	21.9	22.1	22.4	22.6	22.8	23.0	23.2	23.4	23.6
24.5	16.6	17.5	18.2	18.9	19.4	19.9	20.4	20.8	21.1	21.5	21.8	22.1	22.3	22.6	22.8	23.1	23.3	23.5	23.7	23.9	24.1
25.0	16.9	17.8	18.6	19.2	19.8	20.3	20.8	21.2	21.5	21.9	22.2	22.5	22.8	23.0	23.3	23.5	23.7	24.0	24.2	24.4	24.5
25.5	17.2	18.1	18.9	19.6	20.2	20.7	21.1	21.6	21.9	22.3	22.6	22.9	23.2	23.5	23.7	24.0	24.2	24.4	24.6	24.8	25.0
26.0	17.5	18.4	19.3	19.9	20.5	21.1	21.5	22.0	22.3	22.7	23.0	23.4	23.6	23.9	24.2	24.4	24.7	24.9	25.1	25.3	25.5
26.5	17.8	18.8	19.6	20.3	20.9	21.4	21.9	22.4	22.8	23.1	23.5	23.8	24.1	24.4	24.6	24.9	25.1	25.4	25.6	25.8	26.0
27.0	18.1	19.1	19.9	20.6	21.3	21.8	22.3	22.8	23.2	23.5	23.9	24.2	24.5	24.8	25.1	25.3	25.6	25.8	26.1	26.3	26.5
27.5	18.4	19.4	20.3	21.0	21.6	22.2	22.7	23.1	23.6	23.9	24.3	24.6	25.0	25.2	25.5	25.8	26.1	26.3	26.5	26.8	27.0
28.0	18.7	19.7	20.6	21.3	22.0	22.6	23.1	23.5	24.0	24.4	24.7	25.1	25.4	25.7	26.0	26.3	26.5	26.8	27.0	27.2	27.5
28.5	18.9	20.0	20.9	21.7	22.3	22.9	23.5	23.9	24.4	24.8	25.1	25.5	25.8	26.1	26.4	26.7	27.0	27.2	27.5	27.7	28.0
29.0	19.2	20.3	21.3	22.0	22.7	23.3	23.8	24.3	24.8	25.2	25.6	25.9	26.3	26.6	26.9	27.2	27.4	27.7	28.0	28.2	28.4
29.5	19.5	20.7	21.6	22.4	23.1	23.7	24.2	24.7	25.2	25.6	26.0	26.3	26.7	27.0	27.3	27.6	27.9	28.2	28.4	28.7	28.9
30.0	19.8	21.0	21.9	22.7	23.4	24.0	24.6	25.1	25.6	26.0	26.4	26.8	27.1	27.5	27.8	28.1	28.4	28.6	28.9	29.2	29.4
30.5	20.1	21.3	22.2	23.1	23.8	24.4	25.0	25.5	26.0	26.4	26.8	27.2	27.6	27.9	28.2	28.5	28.8	29.1	29.4	29.6	29.9
31.0	20.4	21.6	22.6	23.4	24.1	24.8	25.4	25.9	26.4	26.8	27.2	27.6	28.0	28.3	28.7	29.0	29.3	29.6	29.9	30.1	30.4
31.5	20.7	21.9	22.9	23.7	24.5	25.1	25.7	26.3	26.8	27.2	27.6	28.0	28.4	28.8	29.1	29.4	29.7	30.0	30.3	30.6	30.9
32.0	21.0	22.2	23.2	24.1	24.8	25.5	26.1	26.7	27.2	27.6	28.1	28.5	28.8	29.2	29.6	29.9	30.2	30.5	30.8	31.1	31.4
32.5	21.2	22.5	23.5	24.4	25.2	25.9	26.5	27.0	27.6	28.0	28.5	28.9	29.3	29.6	30.0	30.3	30.7	31.0	31.3	31.6	31.8
33.0	21.5	22.8	23.9	24.8	25.5	26.2	26.9	27.4	27.9	28.4	28.9	29.3	29.7	30.1	30.4	30.8	31.1	31.4	31.7	32.0	32.3
33.5	21.8	23.1	24.2	25.1	25.9	26.6	27.2	27.8	28.3	28.8	29.3	29.7	30.1	30.5	30.9	31.2	31.6	31.9	32.2	32.5	32.8
34.0	22.1	23.4	24.5	25.4	26.2	27.0	27.6	28.2	28.7	29.2	29.7	30.1	30.6	31.0	31.3	31.7	32.0	32.4	32.7	33.0	33.3
34.5	22.4	23.7	24.8	25.8	26.6	27.3	28.0	28.6	29.1	29.6	30.1	30.6	31.0	31.4	31.8	32.1	32.5	32.8	33.2	33.5	33.8
35.0	22.6	24.0	25.1	26.1	26.9	27.7	28.3	29.0	29.5	30.0	30.5	31.0	31.4	31.8	32.2	32.6	32.9	33.3	33.6	33.9	34.3
35.5	22.9	24.3	25.4	26.4	27.3	28.0	28.7	29.3	29.9	30.4	30.9	31.4	31.8	32.3	32.7	33.0	33.4	33.8	34.1	34.4	34.7
36.0	23.2	24.6	25.7	26.7	27.6	28.4	29.1	29.7	30.3	30.8	31.3	31.8	32.3	32.7	33.1	33.5	33.9	34.2	34.6	34.9	35.2
36.5	23.5	24.9	26.1	27.1	28.0	28.7	29.4	30.1	30.7	31.2	31.7	32.2	32.7	33.1	33.5	33.9	34.3	34.7	35.0	35.4	35.7
37.0	23.7	25.2	26.4	27.4	28.3	29.1	29.8	30.5	31.1	31.6	32.2	32.6	33.1	33.6	34.0	34.4	34.8	35.1	35.5	35.9	36.2
37.5	24.0	25.5	26.7	27.7	28.6	29.4	30.2	30.8	31.5	32.0	32.6	33.1	33.5	34.0	34.4	34.8	35.2	35.6	36.0	36.3	36.7
38.0	24.3	25.7	27.0	28.0	29.0	29.8	30.5	31.2	31.8	32.4	33.0	33.5	34.0	34.4	34.9	35.3	35.7	36.1	36.4	36.8	37.2
38.5	24.5	26.0	27.3	28.4	29.3	30.1	30.9	31.6	32.2	32.8	33.4	33.9	34.4	34.8	35.3	35.7	36.1	36.5	36.9	37.3	37.6
39.0	24.8	26.3	27.6	28.7	29.6	30.5	31.3	32.0	32.6	33.2	33.8	34.3	34.8	35.3	35.7	36.2	36.6	37.0	37.4	37.8	38.1
39.5	25.0	26.6	27.9	29.0	30.0	30.8	31.6	32.3	33.0	33.6	34.2	34.7	35.2	35.7	36.2	36.6	37.0	37.5	37.9	38.2	38.6
40.0	25.3	26.9	28.2	29.3	30.3	31.2	32.0	32.7	33.4	34.0	34.6	35.1	35.6	36.1	36.6	37.1	37.5	37.9	38.3	38.7	39.1
40.5	25.6	27.2	28.5	29.6	30.6	31.5	32.3	33.1	33.8	34.4	35.0	35.5	36.1	36.6	37.0	37.5	37.9	38.4	38.8	39.2	39.6
41.0	25.8	27.5	28.8	30.0	31.0	31.9	32.7	33.4	34.1	34.8	35.4	35.9	36.5	37.0	37.5	37.9	38.4	38.8	39.3	39.7	40.1
41.5	26.1	27.7	29.1	30.3	31.3	32.2	33.1	33.8	34.5	35.2	35.8	36.4	36.9	37.4	37.9	38.4	38.8	39.3	39.7	40.1	40.5
42.0	26.3	28.0	29.4	30.6	31.6	32.6	33.4	34.2	34.9	35.6	36.2	36.8	37.3	37.8	38.3	38.8	39.3	39.8	40.2	40.6	41.0
42.5	26.6	28.3	29.7	30.9	32.0	32.9	33.8	34.5	35.3	35.9	36.6	37.2	37.7	38.3	38.8	39.3	39.8	40.2	40.7	41.1	41.5
43.0	26.8	28.6	30.0	31.2	32.3	33.2	34.1	34.9	35.6	36.3	37.0	37.6	38.1	38.7	39.2	39.7	40.2	40.7	41.1	41.6	42.0
43.5	27.1	28.8	30.3	31.5	32.6	33.6	34.5	35.3	36.0	36.7	37.4	38.0	38.6	39.1	39.6	40.2	40.7	41.1	41.6	42.0	42.5
44.0	27.3	29.1	30.6	31.8	32.9	33.9	34.8	35.6	36.4	37.1	37.8	38.4	39.0	39.5	40.1	40.6	41.1	41.6	42.1	42.5	42.9
44.5	27.6	29.4	30.9	32.1	33.3	34.3	35.2	36.0	36.8	37.5	38.2	38.8	39.4	40.0	40.5	41.0	41.6	42.0	42.5	43.0	43.4
45.0	27.8	29.6	31.2	32.4	33.6	34.6	35.5	36.4	37.1	37.9	38.5	39.2	39.8	40.4	40.9	41.5	42.0	42.5	43.0	43.5	43.9
45.5	28.1	29.9	31.4	32.8	33.9	34.9	35.9	36.7	37.5	38.2	38.9	39.6	40.2	40.8	41.4	41.9	42.4	43.0	43.4	43.9	44.4
46.0	28.3	30.2	31.7	33.1	34.2	35.3	36.2	37.1	37.9	38.6	39.3	40.0	40.6	41.2	41.8	42.4	42.9	43.4	43.9	44.4	44.9
46.5	28.6	30.4	32.0	33.4	34.5	35.6	36.6	37.4	38.2	39.0	39.7	40.4	41.0	41.7	42.2	42.8	43.3	43.9	44.4	44.9	45.3
47.0	28.8	30.7	32.3	33.7	34.9	35.9	36.9	37.8	38.6	39.4	40.1	40.8	41.4	42.1	42.7	43.2	43.8	44.3	44.8	45.3	45.8
47.5	29.1	31.0	32.6	34.0	35.2	36.3	37.2	38.1	39.0	39.8	40.5	41.2	41.9	42.5	43.1	43.7	44.2	44.8	45.3	45.8	46.3
48.0	29.3	31.2	32.9	34.3	35.5	36.6	37.6	38.5	39.4	40.1	40.9	41.6	42.3	42.9	43.5	44.1	44.7	45.2	45.8	46.3	46.8
48.5	29.5	31.5	33.1	34.6	35.8	36.9	37.9	38.9	39.7	40.5	41.3	42.0	42.7	43.3	44.0	44.6	45.1	45.7	46.2	46.8	47.3
49.0	29.8	31.8	33.4	34.9	36.1	37.2	38.3	39.2	40.1	40.9	41.7	42.4	43.1	43.7	44.4	45.0	45.6	46.1	46.7	47.2	47.7
49.5	30.0	32.0	33.7	35.2	36.4	37.6	38.6	39.6	40.4	41.3	42.1	42.8	43.5	44.2	44.8	45.4	46.0	46.6	47.2	47.7	48.2
50.0	30.2	32.3	34.0	35.4	36.7	37.9	38.9	39.9	40.8	41.7	42.4	43.2	43.9	44.6	45.2	45.9	46.5	47.0	47.6	48.2	48.7

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR DOGWOOD

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.8	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	4.2	4.4	4.5	4.6	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.5	4.7	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.8	5.0	5.2	5.3	5.5	5.6	5.7	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.2	6.3	6.3	6.4	6.4
7.0	5.2	5.4	5.6	5.7	5.8	6.0	6.1	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.5	5.7	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4
8.0	5.8	6.0	6.2	6.4	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.6	7.7	7.8	7.8	7.9
8.5	6.1	6.3	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.2	8.2	8.3	8.3
9.0	6.4	6.7	6.9	7.1	7.3	7.4	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.8	8.8
9.5	6.6	7.0	7.2	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.2	9.3
10.0	6.9	7.2	7.5	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.8	8.9	9.1	9.2	9.3	9.4	9.4	9.5	9.6	9.7	9.8
10.5	7.2	7.5	7.8	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3
11.0	7.4	7.8	8.1	8.4	8.6	8.8	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.0	10.1	10.2	10.3	10.5	10.6	10.7	10.8
11.5	7.7	8.1	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.2	10.3	10.4	10.5	10.7	10.8	10.9	11.0	11.1	11.2
12.0	7.9	8.3	8.7	9.0	9.2	9.5	9.7	9.9	10.1	10.2	10.4	10.5	10.7	10.8	11.0	11.1	11.2	11.4	11.5	11.6	11.7
12.5	8.1	8.6	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.6	10.8	10.9	11.1	11.2	11.4	11.5	11.7	11.8	11.9	12.1	12.2
13.0	8.4	8.8	9.2	9.5	9.8	10.1	10.3	10.6	10.8	11.0	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.5	12.7
13.5	8.6	9.1	9.5	9.8	10.1	10.4	10.7	10.9	11.1	11.3	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.7	12.8	13.0	13.1
14.0	8.8	9.3	9.7	10.1	10.4	10.7	11.0	11.2	11.5	11.7	11.9	12.1	12.3	12.5	12.6	12.8	13.0	13.1	13.3	13.5	13.6
14.5	9.0	9.5	10.0	10.4	10.7	11.0	11.3	11.5	11.8	12.0	12.2	12.5	12.7	12.9	13.0	13.2	13.4	13.6	13.8	13.9	14.1
15.0	9.2	9.7	10.2	10.6	11.0	11.3	11.6	11.9	12.1	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.2	14.4	14.6
15.5	9.4	10.0	10.4	10.9	11.2	11.6	11.9	12.2	12.4	12.7	13.0	13.2	13.4	13.6	13.8	14.1	14.3	14.5	14.7	14.8	15.0
16.0	9.6	10.2	10.7	11.1	11.5	11.9	12.2	12.5	12.8	13.0	13.3	13.5	13.8	14.0	14.2	14.5	14.7	14.9	15.1	15.3	15.5
16.5	9.7	10.4	10.9	11.3	11.7	12.1	12.5	12.8	13.1	13.4	13.6	13.9	14.2	14.4	14.6	14.9	15.1	15.3	15.6	15.8	16.0
17.0	9.9	10.5	11.1	11.6	12.0	12.4	12.7	13.1	13.4	13.7	14.0	14.3	14.5	14.8	15.0	15.3	15.5	15.8	16.0	16.2	16.4
17.5	10.0	10.7	11.3	11.8	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.9	15.2	15.4	15.7	15.9	16.2	16.4	16.7	16.9
18.0	10.2	10.9	11.5	12.0	12.5	12.9	13.3	13.7	14.0	14.3	14.7	15.0	15.3	15.5	15.8	16.1	16.4	16.6	16.9	17.1	17.4
18.5	10.3	11.1	11.7	12.2	12.7	13.1	13.5	13.9	14.3	14.6	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.0	17.3	17.6	17.9
19.0	10.5	11.2	11.9	12.4	12.9	13.4	13.8	14.2	14.6	15.0	15.3	15.6	16.0	16.3	16.6	16.9	17.2	17.5	17.8	18.0	18.3
19.5	10.6	11.4	12.0	12.6	13.1	13.6	14.1	14.5	14.9	15.3	15.6	16.0	16.3	16.6	17.0	17.3	17.6	17.9	18.2	18.5	18.8
20.0	10.7	11.5	12.2	12.8	13.3	13.8	14.3	14.7	15.2	15.6	15.9	16.3	16.7	17.0	17.3	17.7	18.0	18.3	18.6	18.9	19.2
20.5	10.8	11.6	12.3	13.0	13.5	14.1	14.5	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.7	18.1	18.4	18.7	19.1	19.4	19.7
21.0	10.9	11.8	12.5	13.2	13.7	14.3	14.8	15.3	15.7	16.1	16.5	16.9	17.3	17.7	18.1	18.4	18.8	19.2	19.5	19.8	20.2
21.5	11.0	11.9	12.6	13.3	13.9	14.5	15.0	15.5	16.0	16.4	16.8	17.3	17.7	18.1	18.4	18.8	19.2	19.6	19.9	20.3	20.6
22.0	11.1	12.0	12.8	13.5	14.1	14.7	15.2	15.7	16.2	16.7	17.1	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.4	20.7	21.1
22.5	11.1	12.1	12.9	13.6	14.3	14.9	15.4	16.0	16.5	17.0	17.4	17.9	18.3	18.8	19.2	19.6	20.0	20.4	20.8	21.2	21.6
23.0	11.2	12.2	13.0	13.8	14.5	15.1	15.7	16.2	16.7	17.2	17.7	18.2	18.6	19.1	19.5	20.0	20.4	20.8	21.2	21.6	22.0
23.5	11.3	12.3	13.2	13.9	14.6	15.3	15.9	16.4	17.0	17.5	18.0	18.5	19.0	19.4	19.9	20.3	20.8	21.2	21.6	22.1	22.5
24.0	11.3	12.4	13.3	14.1	14.8	15.4	16.1	16.7	17.2	17.8	18.3	18.8	19.3	19.8	20.2	20.7	21.2	21.6	22.1	22.5	22.9
24.5	11.4	12.4	13.4	14.2	14.9	15.6	16.3	16.9	17.5	18.0	18.6	19.1	19.6	20.1	20.6	21.1	21.5	22.0	22.5	22.9	23.4
25.0	11.4	12.5	13.5	14.3	15.1	15.8	16.4	17.1	17.7	18.3	18.8	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.8
25.5	11.4	12.6	13.5	14.4	15.2	15.9	16.6	17.3	17.9	18.5	19.1	19.7	20.2	20.7	21.3	21.8	22.3	22.8	23.3	23.8	24.3
26.0	11.5	12.6	13.6	14.5	15.3	16.1	16.8	17.5	18.1	18.8	19.4	19.9	20.5	21.1	21.6	22.2	22.7	23.2	23.7	24.2	24.8
26.5	11.5	12.7	13.7	14.6	15.5	16.2	17.0	17.7	18.3	19.0	19.6	20.2	20.8	21.4	22.0	22.5	23.1	23.6	24.1	24.7	25.2
27.0	11.5	12.7	13.8	14.7	15.6	16.4	17.1	17.9	18.6	19.2	19.9	20.5	21.1	21.7	22.3	22.9	23.4	24.0	24.6	25.1	25.7
27.5	11.5	12.7	13.8	14.8	15.7	16.5	17.3	18.0	18.8	19.4	20.1	20.8	21.4	22.0	22.6	23.2	23.8	24.4	25.0	25.5	26.1
28.0	11.5	12.8	13.9	14.9	15.8	16.7	17.5	18.2	19.0	19.7	20.4	21.0	21.7	22.3	23.0	23.6	24.2	24.8	25.4	26.0	26.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR PERSIMMON

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.2	3.5	3.7	3.8	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	3.6	3.8	4.0	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.4
6.0	3.9	4.2	4.4	4.6	4.8	4.9	5.0	5.2	5.3	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.3	4.6	4.8	5.0	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4
7.0	4.6	4.9	5.2	5.4	5.6	5.8	5.9	6.0	6.2	6.3	6.3	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.0	5.3	5.6	5.8	6.0	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.3	5.7	6.0	6.2	6.5	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	5.7	6.1	6.4	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.8	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.4
9.0	6.0	6.4	6.8	7.1	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9	8.9
9.5	6.4	6.8	7.2	7.5	7.7	8.0	8.1	8.3	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.2	9.3	9.4	9.4
10.0	6.8	7.2	7.6	7.9	8.2	8.4	8.6	8.8	8.9	9.0	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.9	9.9
10.5	7.1	7.6	8.0	8.3	8.6	8.8	9.0	9.2	9.4	9.5	9.6	9.8	9.9	9.9	10.0	10.1	10.2	10.2	10.3	10.3	10.4
11.0	7.5	8.0	8.4	8.8	9.0	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9
11.5	7.9	8.4	8.8	9.2	9.5	9.7	10.0	10.1	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.3	11.4
12.0	8.2	8.8	9.3	9.6	9.9	10.2	10.4	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.7	11.8	11.8	11.9
12.5	8.6	9.2	9.7	10.1	10.4	10.6	10.9	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3	12.3	12.4
13.0	9.0	9.6	10.1	10.5	10.8	11.1	11.3	11.6	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8	12.8	12.9
13.5	9.4	10.0	10.5	10.9	11.3	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3	13.3	13.4
14.0	9.8	10.4	10.9	11.4	11.7	12.0	12.3	12.5	12.7	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.8	13.8	13.9
14.5	10.2	10.8	11.4	11.8	12.2	12.5	12.7	13.0	13.2	13.4	13.5	13.7	13.8	13.9	14.0	14.1	14.2	14.2	14.3	14.3	14.4
15.0	10.6	11.3	11.8	12.3	12.6	12.9	13.2	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.5	14.6	14.7	14.7	14.8	14.8	14.9
15.5	11.0	11.7	12.2	12.7	13.1	13.4	13.7	13.9	14.1	14.3	14.5	14.6	14.8	14.9	15.0	15.1	15.2	15.2	15.3	15.3	15.4
16.0	11.4	12.1	12.7	13.2	13.6	13.9	14.2	14.4	14.6	14.8	15.0	15.1	15.3	15.4	15.5	15.6	15.7	15.7	15.8	15.9	15.9
16.5	11.8	12.5	13.1	13.6	14.0	14.4	14.7	14.9	15.1	15.3	15.5	15.6	15.8	15.9	16.0	16.1	16.2	16.2	16.3	16.4	16.4
17.0	12.2	13.0	13.6	14.1	14.5	14.8	15.1	15.4	15.6	15.8	16.0	16.1	16.3	16.4	16.5	16.6	16.7	16.7	16.8	16.9	16.9
17.5	12.6	13.4	14.0	14.5	15.0	15.3	15.6	15.9	16.1	16.3	16.5	16.6	16.8	16.9	17.0	17.1	17.2	17.2	17.3	17.4	17.4
18.0	13.0	13.8	14.5	15.0	15.4	15.8	16.1	16.4	16.6	16.8	17.0	17.1	17.3	17.4	17.5	17.6	17.7	17.8	17.8	17.9	17.9
18.5	13.4	14.3	14.9	15.5	15.9	16.3	16.6	16.9	17.1	17.3	17.5	17.6	17.8	17.9	18.0	18.1	18.2	18.3	18.3	18.4	18.4
19.0	13.9	14.7	15.4	15.9	16.4	16.8	17.1	17.4	17.6	17.8	18.0	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.8	18.9	18.9
19.5	14.3	15.2	15.8	16.4	16.9	17.2	17.6	17.9	18.1	18.3	18.5	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.3	19.4	19.4
20.0	14.7	15.6	16.3	16.9	17.3	17.7	18.1	18.4	18.6	18.8	19.0	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.8	19.9	19.9
20.5	15.1	16.0	16.8	17.3	17.8	18.2	18.6	18.9	19.1	19.3	19.5	19.7	19.8	19.9	20.1	20.1	20.2	20.3	20.3	20.4	20.4
21.0	15.6	16.5	17.2	17.8	18.3	18.7	19.1	19.4	19.6	19.8	20.0	20.2	20.3	20.5	20.6	20.7	20.7	20.8	20.9	20.9	20.9
21.5	16.0	17.0	17.7	18.3	18.8	19.2	19.6	19.9	20.1	20.3	20.5	20.7	20.9	21.0	21.1	21.2	21.2	21.3	21.4	21.4	21.4
22.0	16.5	17.4	18.2	18.8	19.3	19.7	20.1	20.4	20.6	20.9	21.1	21.2	21.4	21.5	21.6	21.7	21.8	21.8	21.9	21.9	22.0
22.5	16.9	17.9	18.6	19.3	19.8	20.2	20.6	20.9	21.2	21.4	21.6	21.7	21.9	22.0	22.1	22.2	22.3	22.3	22.4	22.4	22.5
23.0	17.3	18.3	19.1	19.8	20.3	20.7	21.1	21.4	21.7	21.9	22.1	22.3	22.4	22.5	22.6	22.7	22.8	22.9	22.9	22.9	23.0
23.5	17.8	18.8	19.6	20.2	20.8	21.2	21.6	21.9	22.2	22.4	22.6	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.4	23.4	23.5
24.0	18.2	19.3	20.1	20.7	21.3	21.7	22.1	22.4	22.7	22.9	23.1	23.3	23.4	23.6	23.7	23.8	23.8	23.9	23.9	24.0	24.0
24.5	18.7	19.7	20.6	21.2	21.8	22.2	22.6	22.9	23.2	23.5	23.7	23.8	24.0	24.1	24.2	24.3	24.3	24.4	24.4	24.5	24.5
25.0	19.1	20.2	21.1	21.7	22.3	22.8	23.1	23.5	23.7	24.0	24.2	24.3	24.5	24.6	24.7	24.8	24.9	24.9	25.0	25.0	25.0
25.5	19.6	20.7	21.6	22.2	22.8	23.3	23.7	24.0	24.3	24.5	24.7	24.9	25.0	25.1	25.2	25.3	25.4	25.4	25.5	25.5	25.5
26.0	20.1	21.2	22.0	22.7	23.3	23.8	24.2	24.5	24.8	25.0	25.2	25.4	25.5	25.7	25.8	25.8	25.9	25.9	26.0	26.0	26.0
26.5	20.5	21.7	22.5	23.2	23.8	24.3	24.7	25.0	25.3	25.6	25.8	25.9	26.1	26.2	26.3	26.4	26.4	26.5	26.5	26.5	26.5
27.0	21.0	22.1	23.0	23.8	24.3	24.8	25.2	25.6	25.9	26.1	26.3	26.5	26.6	26.7	26.8	26.9	26.9	27.0	27.0	27.0	27.0
27.5	21.5	22.6	23.5	24.3	24.9	25.4	25.8	26.1	26.4	26.6	26.8	27.0	27.1	27.2	27.3	27.4	27.5	27.5	27.5	27.5	27.5

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BEECH

STUMP DOB	STUMP HEIGHT (IN FEET)																			
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.2	3.5	3.7	3.9	4.0	4.1	4.3	4.3	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.5	3.8	4.1	4.3	4.4	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.4	5.4
6.0	3.8	4.2	4.4	4.6	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9
6.5	4.1	4.5	4.8	5.0	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	4.4	4.8	5.1	5.4	5.6	5.8	5.9	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9
7.5	4.8	5.2	5.5	5.8	6.0	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.1	5.5	5.9	6.2	6.4	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	5.4	5.8	6.2	6.5	6.8	7.0	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.4
9.0	5.7	6.2	6.6	6.9	7.2	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.9
9.5	6.0	6.5	6.9	7.3	7.6	7.8	8.0	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.4
10.0	6.3	6.9	7.3	7.7	8.0	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.9
10.5	6.6	7.2	7.7	8.0	8.4	8.6	8.9	9.1	9.2	9.4	9.5	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.3	10.3	10.4
11.0	6.9	7.5	8.0	8.4	8.7	9.0	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.9
11.5	7.2	7.9	8.4	8.8	9.1	9.4	9.7	9.9	10.1	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.4
12.0	7.5	8.2	8.7	9.2	9.5	9.8	10.1	10.3	10.5	10.7	10.9	11.0	11.1	11.3	11.4	11.5	11.6	11.6	11.7	11.8	11.9
12.5	7.8	8.5	9.1	9.5	9.9	10.2	10.5	10.7	11.0	11.1	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3
13.0	8.1	8.8	9.4	9.9	10.3	10.6	10.9	11.2	11.4	11.6	11.8	11.9	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.8
13.5	8.4	9.2	9.8	10.3	10.7	11.0	11.3	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.3
14.0	8.7	9.5	10.1	10.6	11.1	11.4	11.7	12.0	12.2	12.5	12.7	12.8	13.0	13.1	13.2	13.4	13.5	13.6	13.7	13.7	13.8
14.5	9.0	9.8	10.5	11.0	11.4	11.8	12.1	12.4	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	9.3	10.1	10.8	11.4	11.8	12.2	12.6	12.8	13.1	13.3	13.5	13.7	13.9	14.0	14.2	14.3	14.4	14.5	14.6	14.7	14.8
15.5	9.6	10.5	11.2	11.7	12.2	12.6	13.0	13.3	13.5	13.8	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.0	15.1	15.2	15.3
16.0	9.9	10.8	11.5	12.1	12.6	13.0	13.4	13.7	14.0	14.2	14.4	14.6	14.8	15.0	15.1	15.2	15.4	15.5	15.6	15.7	15.8
16.5	10.2	11.1	11.9	12.5	13.0	13.4	13.8	14.1	14.4	14.6	14.9	15.1	15.3	15.4	15.6	15.7	15.8	16.0	16.1	16.2	16.3
17.0	10.5	11.4	12.2	12.8	13.4	13.8	14.2	14.5	14.8	15.1	15.3	15.5	15.7	15.9	16.0	16.2	16.3	16.4	16.6	16.7	16.8
17.5	10.7	11.8	12.5	13.2	13.7	14.2	14.6	14.9	15.2	15.5	15.7	16.0	16.2	16.3	16.5	16.7	16.8	16.9	17.0	17.2	17.3
18.0	11.0	12.1	12.9	13.6	14.1	14.6	15.0	15.3	15.7	15.9	16.2	16.4	16.6	16.8	17.0	17.1	17.3	17.4	17.5	17.6	17.8
18.5	11.3	12.4	13.2	13.9	14.5	15.0	15.4	15.8	16.1	16.4	16.6	16.9	17.1	17.3	17.5	17.6	17.7	17.9	18.0	18.1	18.2
19.0	11.6	12.7	13.6	14.3	14.9	15.4	15.8	16.2	16.5	16.8	17.1	17.3	17.5	17.7	17.9	18.1	18.2	18.4	18.5	18.6	18.7
19.5	11.9	13.0	13.9	14.6	15.2	15.8	16.2	16.6	16.9	17.2	17.5	17.8	18.0	18.2	18.4	18.5	18.7	18.8	19.0	19.1	19.2
20.0	12.2	13.3	14.3	15.0	15.6	16.1	16.6	17.0	17.3	17.7	17.9	18.2	18.4	18.6	18.8	19.0	19.2	19.3	19.5	19.6	19.7
20.5	12.5	13.7	14.6	15.4	16.0	16.5	17.0	17.4	17.8	18.1	18.4	18.6	18.9	19.1	19.3	19.5	19.6	19.8	19.9	20.1	20.2
21.0	12.8	14.0	14.9	15.7	16.4	16.9	17.4	17.8	18.2	18.5	18.8	19.1	19.3	19.6	19.8	19.9	20.1	20.3	20.4	20.6	20.7
21.5	13.0	14.3	15.3	16.1	16.7	17.3	17.8	18.2	18.6	18.9	19.3	19.5	19.8	20.0	20.2	20.4	20.6	20.8	20.9	21.1	21.2
22.0	13.3	14.6	15.6	16.4	17.1	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.2	20.5	20.7	20.9	21.1	21.2	21.4	21.5	21.7
22.5	13.6	14.9	15.9	16.8	17.5	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.0	22.2
23.0	13.9	15.2	16.3	17.1	17.8	18.5	19.0	19.5	19.9	20.2	20.6	20.9	21.1	21.4	21.6	21.8	22.0	22.2	22.4	22.5	22.7
23.5	14.2	15.5	16.6	17.5	18.2	18.8	19.4	19.9	20.3	20.7	21.0	21.3	21.6	21.8	22.1	22.3	22.5	22.7	22.8	23.0	23.2
24.0	14.4	15.8	16.9	17.8	18.6	19.2	19.8	20.3	20.7	21.1	21.4	21.7	22.0	22.3	22.5	22.7	23.0	23.1	23.3	23.5	23.6
24.5	14.7	16.1	17.3	18.2	19.0	19.6	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.7	23.0	23.2	23.4	23.6	23.8	24.0	24.1
25.0	15.0	16.4	17.6	18.5	19.3	20.0	20.6	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.4	23.7	23.9	24.1	24.3	24.5	24.6
25.5	15.3	16.7	17.9	18.9	19.7	20.4	21.0	21.5	21.9	22.4	22.7	23.1	23.4	23.6	23.9	24.1	24.4	24.6	24.8	24.9	25.1
26.0	15.5	17.1	18.3	19.2	20.1	20.8	21.4	21.9	22.4	22.8	23.2	23.5	23.8	24.1	24.4	24.6	24.8	25.0	25.2	25.4	25.6
26.5	15.8	17.4	18.6	19.6	20.4	21.1	21.7	22.3	22.8	23.2	23.6	23.9	24.3	24.6	24.8	25.1	25.3	25.5	25.7	25.9	26.1
27.0	16.1	17.7	18.9	19.9	20.8	21.5	22.1	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.5	25.8	26.0	26.2	26.4	26.6
27.5	16.4	18.0	19.2	20.3	21.1	21.9	22.5	23.1	23.6	24.0	24.4	24.8	25.2	25.5	25.7	26.0	26.2	26.5	26.7	26.9	27.1
28.0	16.6	18.3	19.6	20.6	21.5	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.6	25.9	26.2	26.5	26.7	26.9	27.2	27.4	27.6
28.5	16.9	18.6	19.9	21.0	21.9	22.6	23.3	23.9	24.4	24.9	25.3	25.7	26.0	26.4	26.7	26.9	27.2	27.4	27.6	27.9	28.1
29.0	17.2	18.9	20.2	21.3	22.2	23.0	23.7	24.3	24.8	25.3	25.7	26.1	26.5	26.8	27.1	27.4	27.7	27.9	28.1	28.3	28.5
29.5	17.4	19.2	20.5	21.6	22.6	23.4	24.1	24.7	25.2	25.7	26.2	26.6	26.9	27.3	27.6	27.9	28.1	28.4	28.6	28.8	29.0
30.0	17.7	19.5	20.8	22.0	22.9	23.8	24.5	25.1	25.6	26.1	26.6	27.0	27.4	27.7	28.0	28.3	28.6	28.8	29.1	29.3	29.5
30.5	18.0	19.7	21.2	22.3	23.3	24.1	24.9	25.5	26.1	26.6	27.0	27.4	27.8	28.2	28.5	28.8	29.1	29.3	29.6	29.8	30.0
31.0	18.2	20.0	21.5	22.7	23.7	24.5	25.2	25.9	26.5	27.0	27.4	27.9	28.3	28.6	28.9	29.2	29.5	29.8	30.0	30.3	30.5
31.5	18.5	20.3	21.8	23.0	24.0	24.9	25.6	26.3	26.9	27.4	27.9	28.3	28.7	29.1	29.4	29.7	30.0	30.3	30.5	30.8	31.0
32.0	18.8	20.6	22.1	23.3	24.4	25.3	26.0	26.7	27.3	27.8	28.3	28.7	29.1	29.5	29.8	30.2	30.5	30.7	31.0	31.2	31.5
32.5	19.0	20.9	22.4	23.7	24.7	25.6	26.4	27.1	27.7	28.2	28.7	29.2	29.6	30.0	30.3	30.6	30.9	31.2	31.5	31.7	32.0
33.0	19.3	21.2	22.8	24.0	25.1	26.0	26.8	27.5	28.1	28.6	29.1	29.6	30.0	30.4	30.8	31.1	31.4	31.7	32.0	32.2	32.4
33.5	19.5	21.5	23.1	24.4	25.4	26.4	27.2	27.9	28.5	29.1	29.6	30.0	30.5	30.8	31.2	31.5	31.9	32.2	32.4	32.7	32.9
34.0	19.8	21.8	23.4	24.7	25.8	26.7	27.5	28.3	28.9	29.5	30.0	30.5	30.9	31.3	31.7	32.0	32.3	32.6	32.9	33.2	33.4
34.5	20.1	22.1	23.7	25.0	26.1	27.1	27.9	28.7	29.3	29.9	30.4	30.9	31.3	31.7	32.1	32.5	32.8	33.1	33.4	33.7	33.9
35.0	20.3	22.4	24.0	25.4	26.5	27.5	28.3	29.0	29.7	30.3	30.8	31.3	31.8	32.2	32.6	32.9	33.3	33.6	33.9	34.1	34.4
35.5	20.6	22.7	24.3	25.7	26.8	27.8	28.7	29.4	30.1	30.7	31.3	31.8	32.2	32.6	33.0	33.4	33.7	34.0	34.3	34.6	34.9
36.0	20.8	22.9	24.6	26.0	27.2	28.2	29.1	29.8	30.5	31.1	31.7	32.2	32.6	33.1	33.5	33.8	34.2	34.5	34.8	35.1	35.4
36.5	21.1	23.2	24.9	26.4	27.5	28.6	29.4	30.2	30.9	31.5	32.1	32.6	33.1	33.5	33.9	34.3	34.7	35.0	35.3	35.6	35.9
37.0	21.3	23.5	25.3	26.7	27.9	28.9	29.8	30.6	31.3	31.9	32.5	33.0	33.5	34.0	34.4	34.8	35.1	35.5	35.8	36.1	36.4
37.5	21.6	23.8	25.6	27.0	28.2	29.3	30.2	31.0	31.7	32.4	32.9	33.5	34.0	34.4	34.8	35.2	35.6	35.9	36.2	36.5	36.8
38.0	21.8	24.1	25.9	27.3	28.6	29.6	30.6	31.4	32.1	32.8	33.4	33.9	34.4	34.9	35.3	35.7	36.0	36.4	36.7	37.0	37.3
38.5	22.1	24.4	26.2	27.7	28.9	30.0	30.9	31.8	32.5	33.2	33.8	34.3	34.8	35.3	35.7	36.1	36.5	36.9	37.2	37.5	37.8
39.0	22.3	24.6	26.5	28.0	29.3	30.4	31.3	32.2	32.9	33.6	34.2	34.8	35.3	35.7	36.2	36.6	37.0	37.3	37.7	38.0	38.3
39.5	22.6	24.9	26.8	28.3	29.6	30.7	31.7	32.5	33.3	34.0	34.6	35.2	35.7	36.2	36.6	37.0	37.4	37.8	38.1	38.5	38.8
40.0	22.8	25.2	27.1	28.6	30.0	31.1	32.1	32.9	33.7	34.4	35.0	35.6	36.1	36.6	37.1	37.5	37.9	38.3	38.6	39.0	39.3
40.5	23.1	25.5	27.4	29.0	30.3	31.4	32.4	33.3	34.1	34.8	35.4	36.0	36.6	37.1	37.5	38.0	38.4	38.7	39.1	39.4	39.8
41.0	23.3	25.8	27.7	29.3	30.6	31.8	32.8	33.7	34.5	35.2	35.9	36.5	37.0	37.5	38.0	38.4	38.8	39.2	39.6	39.9	40.2
41.5	23.6	26.0	28.0	29.6	31.0	32.2	33.2	34.1	34.9	35.6	36.3	36.9	37.4	37.9	38.4	38.9	39.3	39.7	40.0	40.4	40.7
42.0	23.8	26.3	28.3	29.9	31.3	32.5	33.5	34.5	35.3	36.0	36.7	37.3	37.9	38.4	38.9	39.3	39.7	40.1	40.5	40.9	41.2
42.5	24.0	26.6	28.6	30.3	31.7	32.9	33.9	34.8	35.7	36.4	37.1	37.7	38.3	38.8	39.3	39.8	40.2	40.6	41.0	41.4	41.7
43.0	24.3	26.8	28.9	30.6	32.0	33.2	34.3	35.2	36.1	36.8	37.5	38.1	38.7	39.3	39.8	40.2	40.7	41.1	41.5	41.8	42.2
43.5	24.5	27.1	29.2	30.9	32.3	33.6	34.7	35.6	36.5	37.2	37.9	38.6	39.2	39.7	40.2	40.7	41.1	41.5	41.9	42.3	42.7
44.0	24.8	27.4	29.5	31.2	32.7	33.9	35.0	36.0	36.9	37.6	38.3	39.0	39.6	40.1	40.7	41.1	41.6	42.0	42.4	42.8	43.2
44.5	25.0	27.7	29.8	31.5	33.0	34.3	35.4	36.4	37.2	38.0	38.8	39.4	40.0	40.6	41.1	41.6	42.0	42.5	42.9	43.3	43.6
45.0	25.2	27.9	30.1	31.8	33.3	34.6	35.8	36.7	37.6	38.4	39.2	39.8	40.4	41.0	41.5	42.0	42.5	42.9	43.4	43.8	44.1
45.5	25.5	28.2	30.4	32.2	33.7	35.0	36.1	37.1	38.0	38.8	39.6	40.2	40.9	41.5	42.0	42.5	43.0	43.4	43.8	44.2	44.6
46.0	25.7	28.5	30.7	32.5	34.0	35.3	36.5	37.5	38.4	39.2	40.0	40.7	41.3	41.9	42.4	42.9	43.4	43.9	44.3	44.7	45.1
46.5	25.9	28.7	31.0	32.8	34.3	35.7	36.8	37.9	38.8	39.6	40.4	41.1	41.7	42.3	42.9	43.4	43.9	44.3	44.8	45.2	45.6
47.0	26.2	29.0	31.2	33.1	34.7	36.0	37.2	38.3	39.2	40.0	40.8	41.5	42.2	42.8	43.3	43.8	44.3	44.8	45.3	45.7	46.1
47.5	26.4	29.3	31.5	33.4	35.0	36.4	37.6	38.6	39.6	40.4	41.2	41.9	42.6	43.2	43.8	44.3	44.8	45.3	45.7	46.2	46.6
48.0	26.6	29.5	31.8	33.7	35.3	36.7	37.9	39.0	40.0	40.8	41.6	42.3	43.0	43.6	44.2	44.8	45.3	45.7	46.2	46.6	47.0
48.5	26.9	29.8	32.1	34.0	35.7	37.1	38.3	39.4	40.3	41.2	42.0	42.8	43.4	44.1	44.7	45.2	45.7	46.2	46.7	47.1	47.5
49.0	27.1	30.1	32.4	34.4	36.0	37.4	38.7	39.7	40.7	41.6	42.4	43.2	43.9	44.5	45.1	45.7	46.2	46.7	47.1	47.6	48.0
49.5	27.3	30.3	32.7	34.7	36.3	37.8	39.0	40.1	41.1	42.0	42.8	43.6	44.3	44.9	45.5	46.1	46.6	47.1	47.6	48.1	48.5
50.0	27.6	30.6	33.0	35.0	36.6	38.1	39.4	40.5	41.5	42.4	43.2	44.0	44.7	45.4	46.0	46.6	47.1	47.6	48.1	48.5	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR ASH

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.8	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.2	4.4	4.6	4.8	4.9	5.1	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.7	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.5	4.8	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	4.8	5.1	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.2	5.5	5.7	6.0	6.1	6.3	6.4	6.6	6.7	6.8	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.5	5.8	6.1	6.3	6.5	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.6	7.7	7.8	7.8	7.9	7.9
8.5	5.8	6.2	6.5	6.7	6.9	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.2	6.5	6.9	7.1	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.7	8.7	8.8	8.8	8.9
9.5	6.5	6.9	7.2	7.5	7.7	7.9	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3	9.4
10.0	6.8	7.2	7.6	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.1	7.6	8.0	8.3	8.5	8.7	8.9	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3	10.4
11.0	7.5	7.9	8.3	8.6	8.9	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8
11.5	7.8	8.3	8.7	9.0	9.3	9.5	9.8	9.9	10.1	10.3	10.4	10.5	10.6	10.8	10.9	11.0	11.0	11.1	11.2	11.3	11.3
12.0	8.1	8.6	9.0	9.4	9.7	9.9	10.2	10.4	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.8
12.5	8.4	9.0	9.4	9.8	10.1	10.3	10.6	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3
13.0	8.7	9.3	9.8	10.1	10.5	10.7	11.0	11.2	11.4	11.6	11.7	11.9	12.0	12.1	12.3	12.4	12.5	12.6	12.6	12.7	12.8
13.5	9.0	9.6	10.1	10.5	10.8	11.1	11.4	11.6	11.8	12.0	12.2	12.3	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.4	10.0	10.5	10.9	11.2	11.5	11.8	12.0	12.2	12.4	12.6	12.8	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.7	13.8
14.5	9.7	10.3	10.8	11.2	11.6	11.9	12.2	12.4	12.7	12.9	13.0	13.2	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.2	14.3
15.0	10.0	10.6	11.2	11.6	12.0	12.3	12.6	12.9	13.1	13.3	13.5	13.7	13.8	14.0	14.1	14.2	14.4	14.5	14.6	14.7	14.8
15.5	10.3	11.0	11.5	12.0	12.4	12.7	13.0	13.3	13.5	13.7	13.9	14.1	14.3	14.4	14.6	14.7	14.8	14.9	15.1	15.2	15.3
16.0	10.6	11.3	11.9	12.3	12.7	13.1	13.4	13.7	13.9	14.1	14.4	14.5	14.7	14.9	15.0	15.2	15.3	15.4	15.5	15.6	15.8
16.5	10.9	11.6	12.2	12.7	13.1	13.5	13.8	14.1	14.3	14.6	14.8	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.0	16.1	16.2
17.0	11.2	12.0	12.6	13.1	13.5	13.9	14.2	14.5	14.8	15.0	15.2	15.4	15.6	15.8	15.9	16.1	16.2	16.4	16.5	16.6	16.7
17.5	11.5	12.3	12.9	13.4	13.9	14.3	14.6	14.9	15.2	15.4	15.7	15.9	16.1	16.2	16.4	16.6	16.7	16.8	17.0	17.1	17.2
18.0	11.8	12.6	13.3	13.8	14.2	14.6	15.0	15.3	15.6	15.8	16.1	16.3	16.5	16.7	16.9	17.0	17.2	17.3	17.5	17.6	17.7
18.5	12.1	12.9	13.6	14.1	14.6	15.0	15.4	15.7	16.0	16.3	16.5	16.7	16.9	17.1	17.3	17.5	17.6	17.8	17.9	18.1	18.2
19.0	12.4	13.2	13.9	14.5	15.0	15.4	15.8	16.1	16.4	16.7	16.9	17.2	17.4	17.6	17.8	17.9	18.1	18.3	18.4	18.6	18.7
19.5	12.7	13.6	14.3	14.9	15.4	15.8	16.2	16.5	16.8	17.1	17.4	17.6	17.8	18.0	18.2	18.4	18.6	18.7	18.9	19.0	19.2
20.0	13.0	13.9	14.6	15.2	15.7	16.2	16.6	16.9	17.2	17.5	17.8	18.0	18.3	18.5	18.7	18.9	19.0	19.2	19.4	19.5	19.7
20.5	13.3	14.2	14.9	15.6	16.1	16.6	17.0	17.3	17.7	18.0	18.2	18.5	18.7	18.9	19.1	19.3	19.5	19.7	19.8	20.0	20.2
21.0	13.6	14.5	15.3	15.9	16.5	16.9	17.4	17.7	18.1	18.4	18.7	18.9	19.2	19.4	19.6	19.8	20.0	20.2	20.3	20.5	20.6
21.5	13.9	14.8	15.6	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.3	19.6	19.8	20.0	20.2	20.4	20.6	20.8	21.0	21.1
22.0	14.1	15.1	15.9	16.6	17.2	17.7	18.1	18.5	18.9	19.2	19.5	19.8	20.0	20.3	20.5	20.7	20.9	21.1	21.3	21.4	21.6
22.5	14.4	15.4	16.3	17.0	17.5	18.1	18.5	18.9	19.3	19.6	19.9	20.2	20.5	20.7	20.9	21.2	21.4	21.6	21.8	21.9	22.1
23.0	14.7	15.8	16.6	17.3	17.9	18.4	18.9	19.3	19.7	20.0	20.3	20.6	20.9	21.2	21.4	21.6	21.8	22.0	22.2	22.4	22.6
23.5	15.0	16.1	16.9	17.6	18.3	18.8	19.3	19.7	20.1	20.4	20.8	21.1	21.3	21.6	21.8	22.1	22.3	22.5	22.7	22.9	23.1
24.0	15.3	16.4	17.3	18.0	18.6	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.8	22.0	22.3	22.5	22.8	23.0	23.2	23.4	23.6
24.5	15.6	16.7	17.6	18.3	19.0	19.5	20.0	20.5	20.9	21.3	21.6	21.9	22.2	22.5	22.8	23.0	23.2	23.4	23.7	23.9	24.0
25.0	15.8	17.0	17.9	18.7	19.3	19.9	20.4	20.9	21.3	21.7	22.0	22.4	22.7	22.9	23.2	23.5	23.7	23.9	24.1	24.3	24.5
25.5	16.1	17.3	18.2	19.0	19.7	20.3	20.8	21.3	21.7	22.1	22.4	22.8	23.1	23.4	23.6	23.9	24.2	24.4	24.6	24.8	25.0
26.0	16.4	17.6	18.5	19.3	20.0	20.6	21.2	21.7	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.4	24.6	24.9	25.1	25.3	25.5
26.5	16.7	17.9	18.9	19.7	20.4	21.0	21.6	22.1	22.5	22.9	23.3	23.6	24.0	24.3	24.5	24.8	25.1	25.3	25.6	25.8	26.0
27.0	16.9	18.2	19.2	20.0	20.7	21.4	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	25.0	25.3	25.5	25.8	26.0	26.3	26.5
27.5	17.2	18.5	19.5	20.4	21.1	21.7	22.3	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.5	26.7	27.0
28.0	17.5	18.8	19.8	20.7	21.4	22.1	22.7	23.2	23.7	24.1	24.5	24.9	25.2	25.6	25.9	26.2	26.5	26.7	27.0	27.2	27.5
28.5	17.7	19.0	20.1	21.0	21.8	22.5	23.1	23.6	24.1	24.5	24.9	25.3	25.7	26.0	26.3	26.6	26.9	27.2	27.4	27.7	27.9
29.0	18.0	19.3	20.4	21.3	22.1	22.8	23.4	24.0	24.5	24.9	25.3	25.7	26.1	26.4	26.8	27.1	27.4	27.7	27.9	28.2	28.4
29.5	18.3	19.6	20.7	21.7	22.5	23.2	23.8	24.4	24.9	25.3	25.8	26.2	26.5	26.9	27.2	27.5	27.8	28.1	28.4	28.7	28.9
30.0	18.5	19.9	21.0	22.0	22.8	23.5	24.2	24.7	25.3	25.7	26.2	26.6	27.0	27.3	27.7	28.0	28.3	28.6	28.9	29.1	29.4
30.5	18.8	20.2	21.4	22.3	23.2	23.9	24.5	25.1	25.6	26.1	26.6	27.0	27.4	27.8	28.1	28.4	28.7	29.0	29.3	29.6	29.9
31.0	19.0	20.5	21.7	22.6	23.5	24.2	24.9	25.5	26.0	26.5	27.0	27.4	27.8	28.2	28.5	28.9	29.2	29.5	29.8	30.1	30.4
31.5	19.3	20.8	22.0	23.0	23.8	24.6	25.3	25.9	26.4	26.9	27.4	27.8	28.2	28.6	29.0	29.3	29.7	30.0	30.3	30.6	30.8
32.0	19.6	21.0	22.3	23.3	24.2	24.9	25.6	26.2	26.8	27.3	27.8	28.2	28.7	29.1	29.4	29.8	30.1	30.4	30.7	31.0	31.3
32.5	19.8	21.3	22.6	23.6	24.5	25.3	26.0	26.6	27.2	27.7	28.2	28.7	29.1	29.5	29.9	30.2	30.6	30.9	31.2	31.5	31.8
33.0	20.1	21.6	22.9	23.9	24.8	25.6	26.3	27.0	27.6	28.1	28.6	29.1	29.5	29.9	30.3	30.7	31.0	31.4	31.7	32.0	32.3
33.5	20.3	21.9	23.2	24.2	25.2	26.0	26.7	27.4	28.0	28.5	29.0	29.5	29.9	30.4	30.7	31.1	31.5	31.8	32.2	32.5	32.8
34.0	20.6	22.2	23.5	24.6	25.5	26.3	27.1	27.7	28.3	28.9	29.4	29.9	30.4	30.8	31.2	31.6	31.9	32.3	32.6	32.9	33.3
34.5	20.8	22.4	23.8	24.9	25.8	26.7	27.4	28.1	28.7	29.3	29.8	30.3	30.8	31.2	31.6	32.0	32.4	32.7	33.1	33.4	33.7
35.0	21.1	22.7	24.0	25.2	26.2	27.0	27.8	28.5	29.1	29.7	30.2	30.7	31.2	31.6	32.1	32.5	32.8	33.2	33.6	33.9	34.2
35.5	21.3	23.0	24.3	25.5	26.5	27.4	28.1	28.8	29.5	30.1	30.6	31.1	31.6	32.1	32.5	32.9	33.3	33.7	34.0	34.4	34.7
36.0	21.5	23.2	24.6	25.8	26.8	27.7	28.5	29.2	29.9	30.5	31.0	31.5	32.0	32.5	32.9	33.4	33.7	34.1	34.5	34.9	35.2
36.5	21.8	23.5	24.9	26.1	27.1	28.0	28.8	29.6	30.2	30.9	31.4	32.0	32.5	32.9	33.4	33.8	34.2	34.6	35.0	35.3	35.7
37.0	22.0	23.8	25.2	26.4	27.5	28.4	29.2	29.9	30.6	31.2	31.8	32.4	32.9	33.3	33.8	34.2	34.7	35.0	35.4	35.8	36.2
37.5	22.3	24.0	25.5	26.7	27.8	28.7	29.5	30.3	31.0	31.6	32.2	32.8	33.3	33.8	34.2	34.7	35.1	35.5	35.9	36.3	36.6
38.0	22.5	24.3	25.8	27.0	28.1	29.1	29.9	30.7	31.4	32.0	32.6	33.2	33.7	34.2	34.7	35.1	35.6	36.0	36.4	36.7	37.1
38.5	22.7	24.6	26.1	27.3	28.4	29.4	30.2	31.0	31.7	32.4	33.0	33.6	34.1	34.6	35.1	35.6	36.0	36.4	36.8	37.2	37.6
39.0	23.0	24.8	26.3	27.6	28.7	29.7	30.6	31.4	32.1	32.8	33.4	34.0	34.5	35.0	35.5	36.0	36.5	36.9	37.3	37.7	38.1
39.5	23.2	25.1	26.6	27.9	29.1	30.1	30.9	31.7	32.5	33.2	33.8	34.4	34.9	35.5	36.0	36.4	36.9	37.3	37.8	38.2	38.6
40.0	23.4	25.3	26.9	28.2	29.4	30.4	31.3	32.1	32.9	33.5	34.2	34.8	35.4	35.9	36.4	36.9	37.4	37.8	38.2	38.6	39.0
40.5	23.7	25.6	27.2	28.5	29.7	30.7	31.6	32.5	33.2	33.9	34.6	35.2	35.8	36.3	36.8	37.3	37.8	38.3	38.7	39.1	39.5
41.0	23.9	25.8	27.5	28.8	30.0	31.0	32.0	32.8	33.6	34.3	35.0	35.6	36.2	36.7	37.3	37.8	38.2	38.7	39.2	39.6	40.0
41.5	24.1	26.1	27.7	29.1	30.3	31.4	32.3	33.2	34.0	34.7	35.4	36.0	36.6	37.2	37.7	38.2	38.7	39.2	39.6	40.1	40.5
42.0	24.3	26.3	28.0	29.4	30.6	31.7	32.7	33.5	34.3	35.1	35.7	36.4	37.0	37.6	38.1	38.6	39.1	39.6	40.1	40.5	41.0
42.5	24.6	26.6	28.3	29.7	30.9	32.0	33.0	33.9	34.7	35.4	36.1	36.8	37.4	38.0	38.5	39.1	39.6	40.1	40.6	41.0	41.4
43.0	24.8	26.8	28.5	30.0	31.2	32.3	33.3	34.2	35.1	35.8	36.5	37.2	37.8	38.4	39.0	39.5	40.0	40.5	41.0	41.5	41.9
43.5	25.0	27.1	28.8	30.3	31.5	32.7	33.7	34.6	35.4	36.2	36.9	37.6	38.2	38.8	39.4	40.0	40.5	41.0	41.5	41.9	42.4
44.0	25.2	27.3	29.1	30.6	31.9	33.0	34.0	34.9	35.8	36.6	37.3	38.0	38.6	39.2	39.8	40.4	40.9	41.4	41.9	42.4	42.9
44.5	25.4	27.6	29.4	30.9	32.2	33.3	34.3	35.3	36.1	36.9	37.7	38.4	39.0	39.7	40.3	40.8	41.4	41.9	42.4	42.9	43.4
45.0	25.6	27.8	29.6	31.1	32.5	33.6	34.7	35.6	36.5	37.3	38.1	38.8	39.4	40.1	40.7	41.3	41.8	42.3	42.9	43.4	43.8
45.5	25.9	28.1	29.9	31.4	32.8	33.9	35.0	36.0	36.9	37.7	38.4	39.2	39.8	40.5	41.1	41.7	42.3	42.8	43.3	43.8	44.3
46.0	26.1	28.3	30.1	31.7	33.1	34.3	35.3	36.3	37.2	38.1	38.8	39.6	40.3	40.9	41.5	42.1	42.7	43.3	43.8	44.3	44.8
46.5	26.3	28.5	30.4	32.0	33.4	34.6	35.7	36.7	37.6	38.4	39.2	40.0	40.7	41.3	42.0	42.6	43.1	43.7	44.2	44.8	45.3
47.0	26.5	28.8	30.7	32.3	33.7	34.9	36.0	37.0	37.9	38.8	39.6	40.3	41.1	41.7	42.4	43.0	43.6	44.2	44.7	45.2	45.8
47.5	26.7	29.0	30.9	32.5	34.0	35.2	36.3	37.3	38.3	39.2	40.0	40.7	41.5	42.1	42.8	43.4	44.0	44.6	45.2	45.7	46.2
48.0	26.9	29.2	31.2	32.8	34.2	35.5	36.7	37.7	38.6	39.5	40.3	41.1	41.9	42.6	43.2	43.9	44.5	45.1	45.6	46.2	46.7
48.5	27.1	29.5	31.4	33.1	34.5	35.8	37.0	38.0	39.0	39.9	40.7	41.5	42.3	43.0	43.6	44.3	44.9	45.5	46.1	46.7	47.2
49.0	27.3	29.7	31.7	33.4	34.8	36.1	37.3	38.4	39.3	40.3	41.1	41.9	42.7	43.4	44.1	44.7	45.4	46.0	46.6	47.1	47.7
49.5	27.5	29.9	31.9	33.6	35.1	36.4	37.6	38.7	39.7	40.6	41.5	42.3	43.1	43.8	44.5	45.2	45.8	46.4	47.0	47.6	48.2
50.0	27.7	30.2	32.2	33.9	35.4	36.7	37.9	39.0	40.0	41.0	41.9	42.7	43.5	44.2	44.9	45.6	46.2	46.9	47.5	48.1	48.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR HOLLY

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.8	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	4.9	5.0	5.0	5.0
5.5	3.9	4.2	4.4	4.6	4.7	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.5	5.5	5.5
6.0	4.2	4.6	4.8	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	6.0	6.0	6.0
6.5	4.6	4.9	5.2	5.4	5.6	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4	6.4	6.5	6.5	6.5
7.0	4.9	5.3	5.6	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9	6.9	6.9	7.0	7.0
7.5	5.3	5.7	6.0	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.3	7.3	7.4	7.4	7.4	7.4	7.5	7.5
8.0	5.7	6.1	6.4	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9	7.9	7.9	8.0	8.0
8.5	6.0	6.5	6.9	7.1	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3	8.3	8.4	8.4	8.4	8.4	8.5	8.5
9.0	6.4	6.9	7.3	7.6	7.8	8.0	8.2	8.3	8.4	8.5	8.6	8.7	8.7	8.8	8.8	8.9	8.9	8.9	8.9	9.0	9.0
9.5	6.8	7.3	7.7	8.0	8.2	8.4	8.6	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3	9.4	9.4	9.4	9.4	9.5	9.5
10.0	7.1	7.7	8.1	8.4	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.8	9.9	9.9	9.9	10.0	10.0
10.5	7.5	8.1	8.5	8.8	9.1	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.4	10.4	10.4	10.5	10.5
11.0	7.9	8.5	8.9	9.3	9.6	9.8	10.0	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9	10.9	10.9	11.0	11.0
11.5	8.2	8.8	9.3	9.7	10.0	10.3	10.5	10.6	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.3	11.4	11.4	11.4	11.5	11.5
12.0	8.6	9.2	9.7	10.1	10.5	10.7	10.9	11.1	11.3	11.4	11.5	11.6	11.7	11.7	11.8	11.8	11.9	11.9	11.9	12.0	12.0
12.5	9.0	9.6	10.2	10.6	10.9	11.2	11.4	11.6	11.7	11.9	12.0	12.1	12.2	12.2	12.3	12.3	12.4	12.4	12.4	12.5	12.5
13.0	9.3	10.0	10.6	11.0	11.3	11.6	11.9	12.0	12.2	12.3	12.5	12.6	12.6	12.7	12.8	12.8	12.9	12.9	12.9	13.0	13.0
13.5	9.7	10.4	11.0	11.4	11.8	12.1	12.3	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.3	13.4	13.4	13.4	13.5	13.5
14.0	10.1	10.8	11.4	11.9	12.2	12.5	12.8	13.0	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.8	13.9	13.9	13.9	14.0	14.0
14.5	10.4	11.2	11.8	12.3	12.7	13.0	13.2	13.5	13.6	13.8	13.9	14.0	14.1	14.2	14.3	14.3	14.4	14.4	14.4	14.5	14.5
15.0	10.8	11.6	12.2	12.7	13.1	13.4	13.7	13.9	14.1	14.3	14.4	14.5	14.6	14.7	14.8	14.8	14.9	14.9	14.9	15.0	15.0
15.5	11.2	12.0	12.7	13.2	13.6	13.9	14.2	14.4	14.6	14.8	14.9	15.0	15.1	15.2	15.3	15.3	15.4	15.4	15.4	15.5	15.5
16.0	11.6	12.4	13.1	13.6	14.0	14.4	14.6	14.9	15.1	15.2	15.4	15.5	15.6	15.7	15.8	15.8	15.9	15.9	15.9	16.0	16.0
16.5	11.9	12.8	13.5	14.0	14.5	14.8	15.1	15.4	15.6	15.7	15.9	16.0	16.1	16.2	16.3	16.3	16.4	16.4	16.4	16.5	16.5
17.0	12.3	13.2	13.9	14.5	14.9	15.3	15.6	15.8	16.0	16.2	16.4	16.5	16.6	16.7	16.8	16.8	16.9	16.9	16.9	17.0	17.0
17.5	12.7	13.6	14.4	14.9	15.4	15.7	16.1	16.3	16.5	16.7	16.9	17.0	17.1	17.2	17.2	17.3	17.4	17.4	17.4	17.5	17.5
18.0	13.1	14.0	14.8	15.4	15.8	16.2	16.5	16.8	17.0	17.2	17.3	17.5	17.6	17.7	17.7	17.8	17.9	17.9	17.9	18.0	18.0
18.5	13.4	14.4	15.2	15.8	16.3	16.7	17.0	17.3	17.5	17.7	17.8	18.0	18.1	18.2	18.2	18.3	18.4	18.4	18.4	18.5	18.5
19.0	13.8	14.9	15.6	16.2	16.7	17.1	17.5	17.7	18.0	18.2	18.3	18.5	18.6	18.7	18.7	18.8	18.9	18.9	18.9	19.0	19.0
19.5	14.2	15.3	16.1	16.7	17.2	17.6	17.9	18.2	18.5	18.6	18.8	19.0	19.1	19.2	19.2	19.3	19.4	19.4	19.4	19.5	19.5
20.0	14.6	15.7	16.5	17.1	17.6	18.1	18.4	18.7	18.9	19.1	19.3	19.4	19.6	19.7	19.7	19.8	19.9	19.9	19.9	20.0	20.0
20.5	15.0	16.1	16.9	17.6	18.1	18.5	18.9	19.2	19.4	19.6	19.8	19.9	20.1	20.2	20.2	20.3	20.4	20.4	20.4	20.5	20.5
21.0	15.4	16.5	17.3	18.0	18.6	19.0	19.4	19.7	19.9	20.1	20.3	20.4	20.6	20.7	20.7	20.8	20.9	20.9	20.9	21.0	21.0
21.5	15.7	16.9	17.8	18.5	19.0	19.5	19.8	20.1	20.4	20.6	20.8	20.9	21.1	21.2	21.2	21.3	21.4	21.4	21.5	21.5	21.5
22.0	16.1	17.3	18.2	18.9	19.5	19.9	20.3	20.6	20.9	21.1	21.3	21.4	21.6	21.7	21.7	21.8	21.9	21.9	22.0	22.0	22.0
22.5	16.5	17.7	18.6	19.4	19.9	20.4	20.8	21.1	21.4	21.6	21.8	21.9	22.1	22.2	22.3	22.3	22.4	22.4	22.5	22.5	22.5
23.0	16.9	18.1	19.1	19.8	20.4	20.9	21.3	21.6	21.9	22.1	22.3	22.4	22.6	22.7	22.8	22.8	22.9	22.9	23.0	23.0	23.0
23.5	17.3	18.5	19.5	20.3	20.9	21.3	21.7	22.1	22.3	22.6	22.8	22.9	23.1	23.2	23.3	23.3	23.4	23.4	23.5	23.5	23.5
24.0	17.7	19.0	19.9	20.7	21.3	21.8	22.2	22.6	22.8	23.1	23.3	23.4	23.6	23.7	23.8	23.8	23.9	23.9	24.0	24.0	24.0
24.5	18.1	19.4	20.4	21.1	21.8	22.3	22.7	23.0	23.3	23.6	23.8	23.9	24.1	24.2	24.3	24.3	24.4	24.4	24.5	24.5	24.5
25.0	18.5	19.8	20.8	21.6	22.2	22.7	23.2	23.5	23.8	24.1	24.3	24.4	24.6	24.7	24.8	24.8	24.9	24.9	25.0	25.0	25.0
25.5	18.8	20.2	21.2	22.1	22.7	23.2	23.7	24.0	24.3	24.5	24.7	24.9	25.1	25.2	25.3	25.3	25.4	25.4	25.5	25.5	25.5
26.0	19.2	20.6	21.7	22.5	23.2	23.7	24.1	24.5	24.8	25.0	25.2	25.4	25.6	25.7	25.8	25.8	25.9	26.0	26.0	26.0	26.0
26.5	19.6	21.0	22.1	23.0	23.6	24.2	24.6	25.0	25.3	25.5	25.7	25.9	26.1	26.2	26.3	26.4	26.4	26.5	26.5	26.5	26.5
27.0	20.0	21.5	22.6	23.4	24.1	24.6	25.1	25.5	25.8	26.0	26.2	26.4	26.6	26.7	26.8	26.9	26.9	27.0	27.0	27.0	27.0
27.5	20.4	21.9	23.0	23.9	24.6	25.1	25.6	26.0	26.3	26.5	26.7	26.9	27.1	27.2	27.3	27.4	27.4	27.5	27.5	27.5	27.5
28.0	20.8	22.3	23.4	24.3	25.0	25.6	26.1	26.4	26.8	27.0	27.2	27.4	27.6	27.7	27.8	27.9	27.9	28.0	28.0	28.0	28.0
28.5	21.2	22.7	23.9	24.8	25.5	26.1	26.5	26.9	27.3	27.5	27.7	27.9	28.1	28.2	28.3	28.4	28.4	28.5	28.5	28.5	28.5
29.0	21.6	23.1	24.3	25.2	26.0	26.5	27.0	27.4	27.7	28.0	28.2	28.4	28.6	28.7	28.8	28.9	28.9	29.0	29.0	29.0	29.0
29.5	22.0	23.6	24.8	25.7	26.4	27.0	27.5	27.9	28.2	28.5	28.7	28.9	29.1	29.2	29.3	29.4	29.4	29.5	29.5	29.5	29.5
30.0	22.4	24.0	25.2	26.1	26.9	27.5	28.0	28.4	28.7	29.0	29.2	29.4	29.6	29.7	29.8	29.9	30.0	30.0	30.0	30.0	30.0
30.5	22.8	24.4	25.6	26.6	27.4	28.0	28.5	28.9	29.2	29.5	29.7	29.9	30.1	30.2	30.3	30.4	30.5	30.5	30.5	30.5	30.5
31.0	23.2	24.8	26.1	27.1	27.8	28.5	29.0	29.4	29.7	30.0	30.2	30.4	30.6	30.7	30.8	30.9	31.0	31.0	31.0	31.0	31.0
31.5	23.6	25.3	26.5	27.5	28.3	28.9	29.5	29.9	30.2	30.5	30.8	30.9	31.1	31.2	31.3	31.4	31.5	31.5	31.5	31.5	31.5

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BLACK WALNUT

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.8	4.0	4.1	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	4.9	5.0
5.5	4.2	4.4	4.5	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.5
6.0	4.6	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	6.0
6.5	4.9	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.4
7.0	5.3	5.6	5.8	5.9	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9	6.9
7.5	5.7	5.9	6.2	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.2	7.3	7.3	7.4	7.4	7.4	7.4
8.0	6.0	6.3	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.8	7.9	7.9	7.9
8.5	6.4	6.7	7.0	7.2	7.3	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.2	8.3	8.3	8.4	8.4	8.4
9.0	6.8	7.1	7.4	7.6	7.8	7.9	8.0	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.9	8.9	8.9
9.5	7.1	7.5	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.3	9.4	9.4
10.0	7.5	7.9	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.3	9.4	9.4	9.5	9.6	9.6	9.7	9.7	9.8	9.8	9.9	9.9
10.5	7.9	8.3	8.6	8.8	9.0	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4	10.4
11.0	8.2	8.6	9.0	9.2	9.4	9.6	9.8	9.9	10.1	10.2	10.3	10.4	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9	10.9
11.5	8.6	9.0	9.4	9.6	9.9	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.2	11.3	11.4	11.4
12.0	8.9	9.4	9.8	10.0	10.3	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.5	11.6	11.7	11.7	11.8	11.8	11.9
12.5	9.3	9.8	10.1	10.4	10.7	10.9	11.1	11.3	11.4	11.5	11.7	11.8	11.8	11.9	12.0	12.1	12.2	12.2	12.3	12.3	12.4
13.0	9.7	10.1	10.5	10.9	11.1	11.3	11.5	11.7	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.8	12.8	12.9
13.5	10.0	10.5	10.9	11.3	11.5	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.0	13.1	13.2	13.3	13.3	13.4
14.0	10.4	10.9	11.3	11.7	11.9	12.2	12.4	12.6	12.7	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.8	13.9
14.5	10.7	11.3	11.7	12.1	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.2	14.3	14.4
15.0	11.1	11.6	12.1	12.5	12.8	13.0	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.5	14.6	14.6	14.7	14.8	14.9
15.5	11.4	12.0	12.5	12.9	13.2	13.4	13.7	13.9	14.1	14.2	14.4	14.5	14.6	14.8	14.9	15.0	15.0	15.1	15.2	15.3	15.3
16.0	11.8	12.4	12.9	13.3	13.6	13.9	14.1	14.3	14.5	14.7	14.8	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.8
16.5	12.1	12.7	13.2	13.7	14.0	14.3	14.5	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.3
17.0	12.5	13.1	13.6	14.0	14.4	14.7	15.0	15.2	15.4	15.6	15.7	15.9	16.0	16.2	16.3	16.4	16.5	16.6	16.7	16.7	16.8
17.5	12.8	13.5	14.0	14.4	14.8	15.1	15.4	15.6	15.8	16.0	16.2	16.3	16.5	16.6	16.7	16.9	17.0	17.1	17.1	17.2	17.3
18.0	13.2	13.8	14.4	14.8	15.2	15.5	15.8	16.1	16.3	16.5	16.6	16.8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8
18.5	13.5	14.2	14.8	15.2	15.6	15.9	16.2	16.5	16.7	16.9	17.1	17.3	17.4	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3
19.0	13.8	14.6	15.1	15.6	16.0	16.4	16.7	16.9	17.1	17.4	17.5	17.7	17.9	18.0	18.2	18.3	18.4	18.5	18.6	18.7	18.8
19.5	14.2	14.9	15.5	16.0	16.4	16.8	17.1	17.3	17.6	17.8	18.0	18.2	18.3	18.5	18.6	18.7	18.9	19.0	19.1	19.2	19.3
20.0	14.5	15.3	15.9	16.4	16.8	17.2	17.5	17.8	18.0	18.2	18.4	18.6	18.8	18.9	19.1	19.2	19.3	19.5	19.6	19.7	19.8
20.5	14.9	15.7	16.3	16.8	17.2	17.6	17.9	18.2	18.5	18.7	18.9	19.1	19.2	19.4	19.6	19.7	19.8	19.9	20.1	20.2	20.3
21.0	15.2	16.0	16.7	17.2	17.6	18.0	18.3	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.0	20.2	20.3	20.4	20.5	20.7	20.8
21.5	15.5	16.4	17.0	17.6	18.0	18.4	18.8	19.1	19.3	19.6	19.8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.0	21.1	21.2
22.0	15.9	16.7	17.4	18.0	18.4	18.8	19.2	19.5	19.8	20.0	20.2	20.4	20.6	20.8	21.0	21.1	21.3	21.4	21.5	21.6	21.7
22.5	16.2	17.1	17.8	18.3	18.8	19.2	19.6	19.9	20.2	20.4	20.7	20.9	21.1	21.3	21.4	21.6	21.7	21.9	22.0	22.1	22.2
23.0	16.5	17.4	18.1	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.3	21.5	21.7	21.9	22.0	22.2	22.3	22.5	22.6	22.7
23.5	16.9	17.8	18.5	19.1	19.6	20.0	20.4	20.8	21.0	21.3	21.6	21.8	22.0	22.2	22.4	22.5	22.7	22.8	23.0	23.1	23.2
24.0	17.2	18.1	18.9	19.5	20.0	20.4	20.8	21.2	21.5	21.8	22.0	22.2	22.4	22.6	22.8	23.0	23.1	23.3	23.4	23.6	23.7
24.5	17.5	18.5	19.2	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.4	22.7	22.9	23.1	23.3	23.5	23.6	23.8	23.9	24.1	24.2
25.0	17.9	18.8	19.6	20.2	20.8	21.3	21.7	22.0	22.3	22.6	22.9	23.1	23.4	23.6	23.7	23.9	24.1	24.3	24.4	24.5	24.7
25.5	18.2	19.2	20.0	20.6	21.2	21.7	22.1	22.4	22.8	23.1	23.3	23.6	23.8	24.0	24.2	24.4	24.6	24.7	24.9	25.0	25.2
26.0	18.5	19.5	20.3	21.0	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.0	24.3	24.5	24.7	24.9	25.0	25.2	25.4	25.5	25.7
26.5	18.8	19.9	20.7	21.4	22.0	22.5	22.9	23.3	23.6	23.9	24.2	24.5	24.7	24.9	25.1	25.3	25.5	25.7	25.9	26.0	26.2
27.0	19.2	20.2	21.1	21.8	22.3	22.9	23.3	23.7	24.0	24.4	24.6	24.9	25.2	25.4	25.6	25.8	26.0	26.2	26.3	26.5	26.6
27.5	19.5	20.6	21.4	22.1	22.7	23.2	23.7	24.1	24.5	24.8	25.1	25.4	25.6	25.8	26.1	26.3	26.5	26.6	26.8	27.0	27.1
28.0	19.8	20.9	21.8	22.5	23.1	23.6	24.1	24.5	24.9	25.2	25.5	25.8	26.1	26.3	26.5	26.7	26.9	27.1	27.3	27.5	27.6
28.5	20.1	21.2	22.1	22.9	23.5	24.0	24.5	24.9	25.3	25.6	26.0	26.2	26.5	26.8	27.0	27.2	27.4	27.6	27.8	27.9	28.1
29.0	20.4	21.6	22.5	23.2	23.9	24.4	24.9	25.3	25.7	26.1	26.4	26.7	27.0	27.2	27.4	27.7	27.9	28.1	28.3	28.4	28.6
29.5	20.8	21.9	22.8	23.6	24.3	24.8	25.3	25.8	26.2	26.5	26.8	27.1	27.4	27.7	27.9	28.1	28.3	28.5	28.7	28.9	29.1
30.0	21.1	22.3	23.2	24.0	24.6	25.2	25.7	26.2	26.6	26.9	27.3	27.6	27.9	28.1	28.4	28.6	28.8	29.0	29.2	29.4	29.6
30.5	21.4	22.6	23.6	24.4	25.0	25.6	26.1	26.6	27.0	27.4	27.7	28.0	28.3	28.6	28.8	29.1	29.3	29.5	29.7	29.9	30.1
31.0	21.7	22.9	23.9	24.7	25.4	26.0	26.5	27.0	27.4	27.8	28.1	28.5	28.7	29.0	29.3	29.5	29.8	30.0	30.2	30.4	30.6
31.5	22.0	23.3	24.3	25.1	25.8	26.4	26.9	27.4	27.8	28.2	28.6	28.9	29.2	29.5	29.7	30.0	30.2	30.4	30.7	30.9	31.0
32.0	22.3	23.6	24.6	25.5	26.2	26.8	27.3	27.8	28.2	28.6	29.0	29.3	29.6	29.9	30.2	30.4	30.7	30.9	31.1	31.3	31.5
32.5	22.6	23.9	25.0	25.8	26.5	27.2	27.7	28.2	28.7	29.1	29.4	29.8	30.1	30.4	30.7	30.9	31.2	31.4	31.6	31.8	32.0
33.0	22.9	24.3	25.3	26.2	26.9	27.6	28.1	28.6	29.1	29.5	29.9	30.2	30.5	30.8	31.1	31.4	31.6	31.9	32.1	32.3	32.5
33.5	23.3	24.6	25.7	26.5	27.3	27.9	28.5	29.0	29.5	29.9	30.3	30.6	31.0	31.3	31.6	31.8	32.1	32.3	32.6	32.8	33.0
34.0	23.6	24.9	26.0	26.9	27.7	28.3	28.9	29.4	29.9	30.3	30.7	31.1	31.4	31.7	32.0	32.3	32.6	32.8	33.0	33.3	33.5
34.5	23.9	25.2	26.3	27.3	28.0	28.7	29.3	29.8	30.3	30.8	31.1	31.5	31.9	32.2	32.5	32.8	33.0	33.3	33.5	33.8	34.0
35.0	24.2	25.6	26.7	27.6	28.4	29.1	29.7	30.2	30.7	31.2	31.6	32.0	32.3	32.6	32.9	33.2	33.5	33.8	34.0	34.2	34.5
35.5	24.5	25.9	27.0	28.0	28.8	29.5	30.1	30.6	31.1	31.6	32.0	32.4	32.7	33.1	33.4	33.7	34.0	34.2	34.5	34.7	35.0
36.0	24.8	26.2	27.4	28.3	29.2	29.9	30.5	31.1	31.6	32.0	32.4	32.8	33.2	33.5	33.8	34.1	34.4	34.7	35.0	35.2	35.4
36.5	25.1	26.5	27.7	28.7	29.5	30.2	30.9	31.5	32.0	32.4	32.9	33.3	33.6	34.0	34.3	34.6	34.9	35.2	35.4	35.7	35.9
37.0	25.4	26.9	28.1	29.0	29.9	30.6	31.3	31.9	32.4	32.8	33.3	33.7	34.1	34.4	34.7	35.1	35.4	35.6	35.9	36.2	36.4
37.5	25.7	27.2	28.4	29.4	30.3	31.0	31.7	32.3	32.8	33.3	33.7	34.1	34.5	34.9	35.2	35.5	35.8	36.1	36.4	36.6	36.9
38.0	26.0	27.5	28.7	29.8	30.6	31.4	32.1	32.7	33.2	33.7	34.1	34.6	34.9	35.3	35.7	36.0	36.3	36.6	36.9	37.1	37.4
38.5	26.3	27.8	29.1	30.1	31.0	31.8	32.4	33.0	33.6	34.1	34.6	35.0	35.4	35.8	36.1	36.4	36.8	37.1	37.3	37.6	37.9
39.0	26.6	28.1	29.4	30.5	31.4	32.1	32.8	33.4	34.0	34.5	35.0	35.4	35.8	36.2	36.6	36.9	37.2	37.5	37.8	38.1	38.4
39.5	26.9	28.5	29.7	30.8	31.7	32.5	33.2	33.8	34.4	34.9	35.4	35.8	36.3	36.6	37.0	37.4	37.7	38.0	38.3	38.6	38.9
40.0	27.1	28.8	30.1	31.2	32.1	32.9	33.6	34.2	34.8	35.3	35.8	36.3	36.7	37.1	37.5	37.8	38.1	38.5	38.8	39.1	39.3
40.5	27.4	29.1	30.4	31.5	32.4	33.3	34.0	34.6	35.2	35.8	36.2	36.7	37.1	37.5	37.9	38.3	38.6	38.9	39.2	39.5	39.8
41.0	27.7	29.4	30.7	31.9	32.8	33.6	34.4	35.0	35.6	36.2	36.7	37.1	37.6	38.0	38.4	38.7	39.1	39.4	39.7	40.0	40.3
41.5	28.0	29.7	31.1	32.2	33.2	34.0	34.8	35.4	36.0	36.6	37.1	37.6	38.0	38.4	38.8	39.2	39.5	39.9	40.2	40.5	40.8
42.0	28.3	30.0	31.4	32.5	33.5	34.4	35.1	35.8	36.4	37.0	37.5	38.0	38.4	38.9	39.3	39.6	40.0	40.3	40.7	41.0	41.3
42.5	28.6	30.3	31.7	32.9	33.9	34.7	35.5	36.2	36.8	37.4	37.9	38.4	38.9	39.3	39.7	40.1	40.5	40.8	41.1	41.5	41.8
43.0	28.9	30.6	32.0	33.2	34.2	35.1	35.9	36.6	37.2	37.8	38.3	38.8	39.3	39.7	40.1	40.5	40.9	41.3	41.6	41.9	42.3
43.5	29.2	30.9	32.4	33.6	34.6	35.5	36.3	37.0	37.6	38.2	38.8	39.3	39.7	40.2	40.6	41.0	41.4	41.7	42.1	42.4	42.7
44.0	29.4	31.2	32.7	33.9	34.9	35.9	36.7	37.4	38.0	38.6	39.2	39.7	40.2	40.6	41.0	41.4	41.8	42.2	42.6	42.9	43.2
44.5	29.7	31.5	33.0	34.2	35.3	36.2	37.0	37.8	38.4	39.0	39.6	40.1	40.6	41.1	41.5	41.9	42.3	42.7	43.0	43.4	43.7
45.0	30.0	31.8	33.3	34.6	35.7	36.6	37.4	38.1	38.8	39.4	40.0	40.5	41.0	41.5	41.9	42.4	42.8	43.1	43.5	43.9	44.2
45.5	30.3	32.2	33.7	34.9	36.0	36.9	37.8	38.5	39.2	39.8	40.4	41.0	41.5	41.9	42.4	42.8	43.2	43.6	44.0	44.3	44.7
46.0	30.6	32.5	34.0	35.3	36.4	37.3	38.2	38.9	39.6	40.2	40.8	41.4	41.9	42.4	42.8	43.3	43.7	44.1	44.4	44.8	45.2
46.5	30.8	32.8	34.3	35.6	36.7	37.7	38.5	39.3	40.0	40.7	41.2	41.8	42.3	42.8	43.3	43.7	44.1	44.5	44.9	45.3	45.6
47.0	31.1	33.1	34.6	35.9	37.1	38.0	38.9	39.7	40.4	41.1	41.7	42.2	42.7	43.2	43.7	44.2	44.6	45.0	45.4	45.8	46.1
47.5	31.4	33.3	34.9	36.3	37.4	38.4	39.3	40.1	40.8	41.5	42.1	42.6	43.2	43.7	44.2	44.6	45.0	45.5	45.9	46.2	46.6
48.0	31.7	33.6	35.3	36.6	37.7	38.8	39.6	40.5	41.2	41.9	42.5	43.1	43.6	44.1	44.6	45.1	45.5	45.9	46.3	46.7	47.1
48.5	31.9	33.9	35.6	36.9	38.1	39.1	40.0	40.8	41.6	42.3	42.9	43.5	44.0	44.6	45.0	45.5	46.0	46.4	46.8	47.2	47.6
49.0	32.2	34.2	35.9	37.3	38.4	39.5	40.4	41.2	42.0	42.7	43.3	43.9	44.5	45.0	45.5	46.0	46.4	46.9	47.3	47.7	48.1
49.5	32.5	34.5	36.2	37.6	38.8	39.8	40.8	41.6	42.4	43.1	43.7	44.3	44.9	45.4	45.9	46.4	46.9	47.3	47.7	48.2	48.6
50.0	32.7	34.8	36.5	37.9	39.1	40.2	41.1	42.0	42.7	43.5	44.1	44.7	45.3	45.9	46.4	46.9	47.3	47.8	48.2	48.6	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SWEETGUM

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.9	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.2	4.5	4.7	4.8	4.9	5.1	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.6	4.8	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4
7.0	4.9	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.2	5.5	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.6	5.9	6.2	6.4	6.5	6.7	6.8	7.0	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9
8.5	5.9	6.3	6.5	6.7	6.9	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.2	6.6	6.9	7.1	7.3	7.5	7.7	7.8	7.9	8.0	8.2	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9
9.5	6.6	7.0	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.4
10.0	6.9	7.3	7.6	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.2	7.6	8.0	8.3	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.3	10.3
11.0	7.6	8.0	8.3	8.6	8.9	9.1	9.3	9.5	9.6	9.8	9.9	10.0	10.1	10.3	10.4	10.4	10.5	10.6	10.7	10.8	10.8
11.5	7.9	8.3	8.7	9.0	9.3	9.5	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.3
12.0	8.2	8.7	9.1	9.4	9.7	9.9	10.1	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.7	11.8
12.5	8.5	9.0	9.4	9.8	10.1	10.3	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3
13.0	8.8	9.4	9.8	10.1	10.4	10.7	10.9	11.1	11.3	11.5	11.7	11.8	11.9	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8
13.5	9.1	9.7	10.1	10.5	10.8	11.1	11.3	11.6	11.8	11.9	12.1	12.3	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.5	10.0	10.5	10.9	11.2	11.5	11.7	12.0	12.2	12.4	12.5	12.7	12.8	13.0	13.1	13.2	13.4	13.5	13.6	13.7	13.8
14.5	9.8	10.4	10.8	11.2	11.6	11.9	12.1	12.4	12.6	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.8	13.9	14.1	14.2	14.3
15.0	10.1	10.7	11.2	11.6	11.9	12.3	12.5	12.8	13.0	13.2	13.4	13.6	13.7	13.9	14.0	14.2	14.3	14.4	14.5	14.6	14.8
15.5	10.4	11.0	11.5	12.0	12.3	12.6	12.9	13.2	13.4	13.6	13.8	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.0	15.1	15.2
16.0	10.7	11.3	11.9	12.3	12.7	13.0	13.3	13.6	13.8	14.1	14.3	14.4	14.6	14.8	14.9	15.1	15.2	15.4	15.5	15.6	15.7
16.5	11.0	11.7	12.2	12.7	13.1	13.4	13.7	14.0	14.2	14.5	14.7	14.9	15.1	15.2	15.4	15.6	15.7	15.8	16.0	16.1	16.2
17.0	11.3	12.0	12.6	13.0	13.4	13.8	14.1	14.4	14.7	14.9	15.1	15.3	15.5	15.7	15.9	16.0	16.2	16.3	16.4	16.6	16.7
17.5	11.6	12.3	12.9	13.4	13.8	14.2	14.5	14.8	15.1	15.3	15.5	15.8	15.9	16.1	16.3	16.5	16.6	16.8	16.9	17.1	17.2
18.0	11.9	12.6	13.2	13.7	14.2	14.6	14.9	15.2	15.5	15.7	16.0	16.2	16.4	16.6	16.8	16.9	17.1	17.3	17.4	17.5	17.7
18.5	12.2	12.9	13.6	14.1	14.5	14.9	15.3	15.6	15.9	16.1	16.4	16.6	16.8	17.0	17.2	17.4	17.6	17.7	17.9	18.0	18.2
19.0	12.5	13.3	13.9	14.4	14.9	15.3	15.7	16.0	16.3	16.6	16.8	17.0	17.3	17.5	17.7	17.8	18.0	18.2	18.4	18.5	18.7
19.5	12.8	13.6	14.2	14.8	15.3	15.7	16.1	16.4	16.7	17.0	17.2	17.5	17.7	17.9	18.1	18.3	18.5	18.7	18.8	19.0	19.1
20.0	13.1	13.9	14.6	15.1	15.6	16.1	16.4	16.8	17.1	17.4	17.7	17.9	18.1	18.4	18.6	18.8	19.0	19.1	19.3	19.5	19.6
20.5	13.4	14.2	14.9	15.5	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.2	19.4	19.6	19.8	19.9	20.1
21.0	13.6	14.5	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.5	18.8	19.0	19.2	19.5	19.7	19.9	20.1	20.3	20.4	20.6
21.5	13.9	14.8	15.5	16.2	16.7	17.2	17.6	18.0	18.3	18.6	18.9	19.2	19.4	19.7	19.9	20.1	20.3	20.5	20.7	20.9	21.1
22.0	14.2	15.1	15.9	16.5	17.0	17.5	18.0	18.3	18.7	19.0	19.3	19.6	19.9	20.1	20.4	20.6	20.8	21.0	21.2	21.4	21.6
22.5	14.5	15.4	16.2	16.8	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.3	20.6	20.8	21.0	21.3	21.5	21.7	21.9	22.1
23.0	14.8	15.7	16.5	17.2	17.8	18.3	18.7	19.1	19.5	19.8	20.2	20.5	20.7	21.0	21.3	21.5	21.7	21.9	22.1	22.3	22.5
23.5	15.0	16.0	16.8	17.5	18.1	18.6	19.1	19.5	19.9	20.2	20.6	20.9	21.2	21.4	21.7	21.9	22.2	22.4	22.6	22.8	23.0
24.0	15.3	16.3	17.1	17.8	18.4	19.0	19.5	19.9	20.3	20.6	21.0	21.3	21.6	21.9	22.1	22.4	22.6	22.9	23.1	23.3	23.5
24.5	15.6	16.6	17.5	18.2	18.8	19.3	19.8	20.3	20.7	21.1	21.4	21.7	22.0	22.3	22.6	22.8	23.1	23.3	23.6	23.8	24.0
25.0	15.9	16.9	17.8	18.5	19.1	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.5	22.8	23.0	23.3	23.6	23.8	24.0	24.3	24.5
25.5	16.1	17.2	18.1	18.8	19.5	20.1	20.6	21.0	21.5	21.9	22.2	22.6	22.9	23.2	23.5	23.7	24.0	24.3	24.5	24.7	25.0
26.0	16.4	17.5	18.4	19.2	19.8	20.4	20.9	21.4	21.9	22.3	22.6	23.0	23.3	23.6	23.9	24.2	24.5	24.7	25.0	25.2	25.4
26.5	16.7	17.8	18.7	19.5	20.2	20.8	21.3	21.8	22.2	22.7	23.0	23.4	23.7	24.1	24.4	24.6	24.9	25.2	25.4	25.7	25.9
27.0	16.9	18.1	19.0	19.8	20.5	21.1	21.7	22.2	22.6	23.0	23.4	23.8	24.2	24.5	24.8	25.1	25.4	25.7	25.9	26.2	26.4
27.5	17.2	18.4	19.3	20.1	20.8	21.5	22.0	22.5	23.0	23.4	23.8	24.2	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.6	26.9
28.0	17.5	18.6	19.6	20.5	21.2	21.8	22.4	22.9	23.4	23.8	24.3	24.6	25.0	25.3	25.7	26.0	26.3	26.6	26.9	27.1	27.4
28.5	17.7	18.9	19.9	20.8	21.5	22.2	22.8	23.3	23.8	24.2	24.7	25.1	25.4	25.8	26.1	26.4	26.7	27.0	27.3	27.6	27.9
29.0	18.0	19.2	20.2	21.1	21.8	22.5	23.1	23.7	24.2	24.6	25.1	25.5	25.8	26.2	26.6	26.9	27.2	27.5	27.8	28.1	28.4
29.5	18.2	19.5	20.5	21.4	22.2	22.9	23.5	24.0	24.5	25.0	25.5	25.9	26.3	26.6	27.0	27.3	27.7	28.0	28.3	28.6	28.8
30.0	18.5	19.8	20.8	21.7	22.5	23.2	23.8	24.4	24.9	25.4	25.9	26.3	26.7	27.1	27.4	27.8	28.1	28.4	28.7	29.0	29.3
30.5	18.7	20.0	21.1	22.0	22.8	23.5	24.2	24.8	25.3	25.8	26.3	26.7	27.1	27.5	27.9	28.2	28.6	28.9	29.2	29.5	29.8
31.0	19.0	20.3	21.4	22.3	23.2	23.9	24.5	25.1	25.7	26.2	26.7	27.1	27.5	27.9	28.3	28.7	29.0	29.3	29.7	30.0	30.3
31.5	19.2	20.6	21.7	22.7	23.5	24.2	24.9	25.5	26.1	26.6	27.1	27.5	27.9	28.3	28.7	29.1	29.5	29.8	30.1	30.5	30.8
32.0	19.5	20.8	22.0	23.0	23.8	24.6	25.2	25.9	26.4	27.0	27.5	27.9	28.4	28.8	29.2	29.5	29.9	30.3	30.6	30.9	31.2
32.5	19.7	21.1	22.3	23.3	24.1	24.9	25.6	26.2	26.8	27.3	27.8	28.3	28.8	29.2	29.6	30.0	30.4	30.7	31.1	31.4	31.7
33.0	20.0	21.4	22.6	23.6	24.5	25.2	25.9	26.6	27.2	27.7	28.2	28.7	29.2	29.6	30.0	30.4	30.8	31.2	31.5	31.9	32.2
33.5	20.2	21.6	22.9	23.9	24.8	25.6	26.3	26.9	27.5	28.1	28.6	29.1	29.6	30.0	30.5	30.9	31.3	31.6	32.0	32.3	32.7
34.0	20.4	21.9	23.1	24.2	25.1	25.9	26.6	27.3	27.9	28.5	29.0	29.5	30.0	30.5	30.9	31.3	31.7	32.1	32.5	32.8	33.2
34.5	20.7	22.2	23.4	24.5	25.4	26.2	27.0	27.7	28.3	28.9	29.4	29.9	30.4	30.9	31.3	31.7	32.2	32.5	32.9	33.3	33.6
35.0	20.9	22.4	23.7	24.8	25.7	26.6	27.3	28.0	28.7	29.3	29.8	30.3	30.8	31.3	31.8	32.2	32.6	33.0	33.4	33.8	34.1
35.5	21.1	22.7	24.0	25.1	26.0	26.9	27.7	28.4	29.0	29.6	30.2	30.7	31.2	31.7	32.2	32.6	33.0	33.5	33.9	34.2	34.6
36.0	21.4	22.9	24.3	25.4	26.3	27.2	28.0	28.7	29.4	30.0	30.6	31.1	31.6	32.1	32.6	33.1	33.5	33.9	34.3	34.7	35.1
36.5	21.6	23.2	24.5	25.7	26.7	27.5	28.3	29.1	29.8	30.4	31.0	31.5	32.1	32.6	33.0	33.5	33.9	34.4	34.8	35.2	35.6
37.0	21.8	23.4	24.8	26.0	27.0	27.9	28.7	29.4	30.1	30.8	31.4	31.9	32.5	33.0	33.5	33.9	34.4	34.8	35.2	35.6	36.0
37.5	22.0	23.7	25.1	26.2	27.3	28.2	29.0	29.8	30.5	31.1	31.7	32.3	32.9	33.4	33.9	34.4	34.8	35.3	35.7	36.1	36.5
38.0	22.3	23.9	25.3	26.5	27.6	28.5	29.4	30.1	30.8	31.5	32.1	32.7	33.3	33.8	34.3	34.8	35.3	35.7	36.2	36.6	37.0
38.5	22.5	24.2	25.6	26.8	27.9	28.8	29.7	30.5	31.2	31.9	32.5	33.1	33.7	34.2	34.7	35.2	35.7	36.2	36.6	37.1	37.5
39.0	22.7	24.4	25.9	27.1	28.2	29.1	30.0	30.8	31.6	32.2	32.9	33.5	34.1	34.6	35.2	35.7	36.2	36.6	37.1	37.5	38.0
39.5	22.9	24.7	26.1	27.4	28.5	29.5	30.3	31.2	31.9	32.6	33.3	33.9	34.5	35.0	35.6	36.1	36.6	37.1	37.5	38.0	38.4
40.0	23.1	24.9	26.4	27.7	28.8	29.8	30.7	31.5	32.3	33.0	33.6	34.3	34.9	35.5	36.0	36.5	37.0	37.5	38.0	38.5	38.9
40.5	23.4	25.2	26.7	27.9	29.1	30.1	31.0	31.8	32.6	33.3	34.0	34.7	35.3	35.9	36.4	37.0	37.5	38.0	38.5	38.9	39.4
41.0	23.6	25.4	26.9	28.2	29.4	30.4	31.3	32.2	33.0	33.7	34.4	35.1	35.7	36.3	36.8	37.4	37.9	38.4	38.9	39.4	39.9
41.5	23.8	25.6	27.2	28.5	29.7	30.7	31.7	32.5	33.3	34.1	34.8	35.4	36.1	36.7	37.3	37.8	38.4	38.9	39.4	39.9	40.4
42.0	24.0	25.9	27.4	28.8	30.0	31.0	32.0	32.9	33.7	34.4	35.2	35.8	36.5	37.1	37.7	38.3	38.8	39.3	39.8	40.3	40.8
42.5	24.2	26.1	27.7	29.1	30.3	31.3	32.3	33.2	34.0	34.8	35.5	36.2	36.9	37.5	38.1	38.7	39.2	39.8	40.3	40.8	41.3
43.0	24.4	26.3	27.9	29.3	30.5	31.6	32.6	33.5	34.4	35.2	35.9	36.6	37.3	37.9	38.5	39.1	39.7	40.2	40.8	41.3	41.8
43.5	24.6	26.6	28.2	29.6	30.8	31.9	32.9	33.9	34.7	35.5	36.3	37.0	37.7	38.3	38.9	39.5	40.1	40.7	41.2	41.7	42.3
44.0	24.8	26.8	28.4	29.9	31.1	32.2	33.3	34.2	35.1	35.9	36.6	37.4	38.1	38.7	39.4	40.0	40.6	41.1	41.7	42.2	42.7
44.5	25.0	27.0	28.7	30.1	31.4	32.5	33.6	34.5	35.4	36.2	37.0	37.8	38.5	39.1	39.8	40.4	41.0	41.6	42.1	42.7	43.2
45.0	25.2	27.2	28.9	30.4	31.7	32.8	33.9	34.9	35.8	36.6	37.4	38.1	38.9	39.5	40.2	40.8	41.4	42.0	42.6	43.1	43.7
45.5	25.4	27.5	29.2	30.7	32.0	33.1	34.2	35.2	36.1	37.0	37.8	38.5	39.2	39.9	40.6	41.2	41.9	42.5	43.0	43.6	44.2
46.0	25.6	27.7	29.4	30.9	32.3	33.4	34.5	35.5	36.4	37.3	38.1	38.9	39.6	40.3	41.0	41.7	42.3	42.9	43.5	44.1	44.6
46.5	25.8	27.9	29.7	31.2	32.5	33.7	34.8	35.8	36.8	37.7	38.5	39.3	40.0	40.7	41.4	42.1	42.7	43.4	44.0	44.5	45.1
47.0	26.0	28.1	29.9	31.4	32.8	34.0	35.1	36.2	37.1	38.0	38.9	39.7	40.4	41.1	41.8	42.5	43.2	43.8	44.4	45.0	45.6
47.5	26.1	28.3	30.1	31.7	33.1	34.3	35.5	36.5	37.5	38.4	39.2	40.0	40.8	41.5	42.3	42.9	43.6	44.2	44.9	45.5	46.1
48.0	26.3	28.5	30.4	32.0	33.4	34.6	35.8	36.8	37.8	38.7	39.6	40.4	41.2	41.9	42.7	43.4	44.0	44.7	45.3	45.9	46.5
48.5	26.5	28.7	30.6	32.2	33.6	34.9	36.1	37.1	38.1	39.1	39.9	40.8	41.6	42.3	43.1	43.8	44.5	45.1	45.8	46.4	47.0
49.0	26.7	29.0	30.8	32.5	33.9	35.2	36.4	37.5	38.5	39.4	40.3	41.2	42.0	42.7	43.5	44.2	44.9	45.6	46.2	46.9	47.5
49.5	26.9	29.2	31.1	32.7	34.2	35.5	36.7	37.8	38.8	39.8	40.7	41.5	42.3	43.1	43.9	44.6	45.3	46.0	46.7	47.3	48.0
50.0	27.1	29.4	31.3	33.0	34.4	35.8	37.0	38.1	39.1	40.1	41.0	41.9	42.7	43.5	44.3	45.0	45.8	46.5	47.1	47.8	48.4

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR YELLOW-POPLAR

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.6	3.8	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.0
5.5	3.9	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4
6.0	4.3	4.5	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9
6.5	4.6	4.9	5.1	5.3	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4
7.0	5.0	5.3	5.5	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9
7.5	5.3	5.7	5.9	6.1	6.3	6.4	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4	7.4
8.0	5.7	6.0	6.3	6.5	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.8	7.9	7.9
8.5	6.0	6.4	6.7	6.9	7.1	7.3	7.4	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4	8.4
9.0	6.4	6.8	7.1	7.3	7.5	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.9	8.9
9.5	6.7	7.1	7.5	7.7	7.9	8.1	8.3	8.4	8.6	8.7	8.8	8.9	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.4	9.4
10.0	7.1	7.5	7.8	8.1	8.4	8.6	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.9	9.9
10.5	7.4	7.9	8.2	8.5	8.8	9.0	9.2	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4
11.0	7.8	8.2	8.6	8.9	9.2	9.4	9.6	9.8	9.9	10.0	10.1	10.3	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9
11.5	8.1	8.6	9.0	9.3	9.6	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3	11.4
12.0	8.4	9.0	9.4	9.7	10.0	10.2	10.4	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.5	11.6	11.7	11.8	11.8	11.9
12.5	8.8	9.3	9.7	10.1	10.4	10.6	10.9	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3	12.4
13.0	9.1	9.7	10.1	10.5	10.8	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8	12.9
13.5	9.5	10.0	10.5	10.9	11.2	11.5	11.7	11.9	12.1	12.3	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.1	13.2	13.3	13.4
14.0	9.8	10.4	10.9	11.3	11.6	11.9	12.1	12.4	12.5	12.7	12.9	13.0	13.1	13.2	13.4	13.4	13.5	13.6	13.7	13.8	13.8
14.5	10.1	10.8	11.3	11.7	12.0	12.3	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.3
15.0	10.5	11.1	11.6	12.1	12.4	12.7	13.0	13.2	13.4	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.8
15.5	10.8	11.5	12.0	12.4	12.8	13.1	13.4	13.6	13.9	14.0	14.2	14.4	14.5	14.6	14.8	14.9	15.0	15.1	15.2	15.2	15.3
16.0	11.1	11.8	12.4	12.8	13.2	13.5	13.8	14.1	14.3	14.5	14.7	14.8	15.0	15.1	15.2	15.3	15.5	15.6	15.6	15.7	15.8
16.5	11.5	12.2	12.7	13.2	13.6	14.0	14.2	14.5	14.7	14.9	15.1	15.3	15.4	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3
17.0	11.8	12.5	13.1	13.6	14.0	14.4	14.7	14.9	15.2	15.4	15.6	15.7	15.9	16.0	16.2	16.3	16.4	16.5	16.6	16.7	16.8
17.5	12.1	12.9	13.5	14.0	14.4	14.8	15.1	15.4	15.6	15.8	16.0	16.2	16.4	16.5	16.8	16.8	16.9	17.0	17.1	17.2	17.3
18.0	12.4	13.2	13.9	14.4	14.8	15.2	15.5	15.8	16.0	16.3	16.5	16.6	16.8	17.0	17.1	17.2	17.4	17.5	17.6	17.7	17.8
18.5	12.8	13.6	14.2	14.8	15.2	15.6	15.9	16.2	16.5	16.7	16.9	17.1	17.3	17.4	17.6	17.7	17.8	18.0	18.1	18.2	18.3
19.0	13.1	13.9	14.6	15.1	15.6	16.0	16.3	16.6	16.9	17.1	17.4	17.5	17.7	17.9	18.0	18.2	18.3	18.4	18.6	18.7	18.8
19.5	13.4	14.3	15.0	15.5	16.0	16.4	16.7	17.1	17.3	17.6	17.8	18.0	18.2	18.4	18.5	18.7	18.8	18.9	19.0	19.2	19.3
20.0	13.7	14.6	15.3	15.9	16.4	16.8	17.2	17.5	17.8	18.0	18.2	18.5	18.6	18.8	19.0	19.1	19.3	19.4	19.5	19.6	19.8
20.5	14.1	15.0	15.7	16.3	16.8	17.2	17.6	17.9	18.2	18.5	18.7	18.9	19.1	19.3	19.4	19.6	19.7	19.9	20.0	20.1	20.2
21.0	14.4	15.3	16.1	16.7	17.2	17.6	18.0	18.3	18.6	18.9	19.1	19.4	19.6	19.7	19.9	20.1	20.2	20.4	20.5	20.6	20.7
21.5	14.7	15.7	16.4	17.0	17.6	18.0	18.4	18.7	19.1	19.3	19.6	19.8	20.0	20.2	20.4	20.5	20.7	20.8	21.0	21.1	21.2
22.0	15.0	16.0	16.8	17.4	18.0	18.4	18.8	19.2	19.5	19.8	20.0	20.3	20.5	20.7	20.8	21.0	21.2	21.3	21.5	21.6	21.7
22.5	15.3	16.3	17.1	17.8	18.3	18.8	19.2	19.6	19.9	20.2	20.5	20.7	20.9	21.1	21.3	21.5	21.6	21.8	21.9	22.1	22.2
23.0	15.7	16.7	17.5	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.4	21.6	21.8	22.0	22.1	22.3	22.4	22.6	22.7
23.5	16.0	17.0	17.9	18.5	19.1	19.6	20.0	20.4	20.8	21.1	21.3	21.6	21.8	22.0	22.2	22.4	22.6	22.8	22.9	23.1	23.2
24.0	16.3	17.4	18.2	18.9	19.5	20.0	20.5	20.8	21.2	21.5	21.8	22.0	22.3	22.5	22.7	22.9	23.1	23.2	23.4	23.5	23.7
24.5	16.6	17.7	18.6	19.3	19.9	20.4	20.9	21.3	21.6	21.9	22.2	22.5	22.7	23.0	23.2	23.4	23.5	23.7	23.9	24.0	24.2
25.0	16.9	18.0	18.9	19.7	20.3	20.8	21.3	21.7	22.0	22.4	22.7	22.9	23.2	23.4	23.6	23.8	24.0	24.2	24.4	24.5	24.7
25.5	17.2	18.4	19.3	20.0	20.7	21.2	21.7	22.1	22.5	22.8	23.1	23.4	23.6	23.9	24.1	24.3	24.5	24.7	24.8	25.0	25.2
26.0	17.5	18.7	19.6	20.4	21.0	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3	24.6	24.8	25.0	25.1	25.3	25.5	25.6
26.5	17.9	19.0	20.0	20.8	21.4	22.0	22.5	22.9	23.3	23.7	24.0	24.3	24.5	24.8	25.0	25.2	25.4	25.6	25.8	26.0	26.1
27.0	18.2	19.4	20.3	21.1	21.8	22.4	22.9	23.3	23.7	24.1	24.4	24.7	25.0	25.2	25.5	25.7	25.9	26.1	26.3	26.5	26.6
27.5	18.5	19.7	20.7	21.5	22.2	22.8	23.3	23.7	24.2	24.5	24.9	25.2	25.4	25.7	25.9	26.2	26.4	26.6	26.8	26.9	27.1
28.0	18.8	20.0	21.0	21.9	22.6	23.2	23.7	24.2	24.6	24.9	25.3	25.6	25.9	26.2	26.4	26.6	26.8	27.1	27.2	27.4	27.6
28.5	19.1	20.4	21.4	22.2	22.9	23.6	24.1	24.6	25.0	25.4	25.7	26.0	26.3	26.6	26.9	27.1	27.3	27.5	27.7	27.9	28.1
29.0	19.4	20.7	21.7	22.6	23.3	24.0	24.5	25.0	25.4	25.8	26.2	26.5	26.8	27.1	27.3	27.6	27.8	28.0	28.2	28.4	28.6
29.5	19.7	21.0	22.1	23.0	23.7	24.3	24.9	25.4	25.8	26.2	26.6	26.9	27.2	27.5	27.8	28.0	28.3	28.5	28.7	28.9	29.1
30.0	20.0	21.4	22.4	23.3	24.1	24.7	25.3	25.8	26.3	26.7	27.0	27.4	27.7	28.0	28.2	28.5	28.7	29.0	29.2	29.4	29.6
30.5	20.3	21.7	22.8	23.7	24.5	25.1	25.7	26.2	26.7	27.1	27.5	27.8	28.1	28.4	28.7	29.0	29.2	29.4	29.6	29.9	30.0
31.0	20.6	22.0	23.1	24.0	24.8	25.5	26.1	26.6	27.1	27.5	27.9	28.2	28.6	28.9	29.2	29.4	29.7	29.9	30.1	30.3	30.5
31.5	20.9	22.3	23.5	24.4	25.2	25.9	26.5	27.0	27.5	27.9	28.3	28.7	29.0	29.3	29.6	29.9	30.1	30.4	30.6	30.8	31.0
32.0	21.2	22.7	23.8	24.8	25.6	26.3	26.9	27.4	27.9	28.4	28.8	29.1	29.5	29.8	30.1	30.4	30.6	30.9	31.1	31.3	31.5
32.5	21.5	23.0	24.2	25.1	26.0	26.7	27.3	27.8	28.3	28.8	29.2	29.6	29.9	30.2	30.5	30.8	31.1	31.3	31.6	31.8	32.0
33.0	21.8	23.3	24.5	25.5	26.3	27.0	27.7	28.2	28.7	29.2	29.6	30.0	30.4	30.7	31.0	31.3	31.5	31.8	32.0	32.3	32.5
33.5	22.1	23.6	24.8	25.8	26.7	27.4	28.1	28.6	29.2	29.6	30.1	30.4	30.8	31.1	31.4	31.7	32.0	32.3	32.5	32.8	33.0
34.0	22.4	23.9	25.2	26.2	27.1	27.8	28.5	29.1	29.6	30.0	30.5	30.9	31.2	31.6	31.9	32.2	32.5	32.7	33.0	33.2	33.5
34.5	22.7	24.3	25.5	26.6	27.4	28.2	28.9	29.5	30.0	30.5	30.9	31.3	31.7	32.0	32.4	32.7	33.0	33.2	33.5	33.7	34.0
35.0	23.0	24.6	25.9	26.9	27.8	28.6	29.3	29.9	30.4	30.9	31.3	31.7	32.1	32.5	32.8	33.1	33.4	33.7	34.0	34.2	34.4
35.5	23.3	24.9	26.2	27.3	28.2	29.0	29.6	30.3	30.8	31.3	31.8	32.2	32.6	32.9	33.3	33.6	33.9	34.2	34.4	34.7	34.9
36.0	23.6	25.2	26.5	27.6	28.5	29.3	30.0	30.7	31.2	31.7	32.2	32.6	33.0	33.4	33.7	34.0	34.4	34.6	34.9	35.2	35.4
36.5	23.9	25.5	26.9	28.0	28.9	29.7	30.4	31.1	31.6	32.1	32.6	33.1	33.5	33.8	34.2	34.5	34.8	35.1	35.4	35.7	35.9
37.0	24.1	25.8	27.2	28.3	29.3	30.1	30.8	31.5	32.0	32.6	33.0	33.5	33.9	34.3	34.6	35.0	35.3	35.6	35.9	36.1	36.4
37.5	24.4	26.1	27.5	28.7	29.6	30.5	31.2	31.9	32.4	33.0	33.5	33.9	34.3	34.7	35.1	35.4	35.8	36.1	36.3	36.6	36.9
38.0	24.7	26.5	27.9	29.0	30.0	30.8	31.6	32.3	32.9	33.4	33.9	34.4	34.8	35.2	35.5	35.9	36.2	36.5	36.8	37.1	37.4
38.5	25.0	26.8	28.2	29.4	30.4	31.2	32.0	32.7	33.3	33.8	34.3	34.8	35.2	35.6	36.0	36.3	36.7	37.0	37.3	37.6	37.9
39.0	25.3	27.1	28.5	29.7	30.7	31.6	32.4	33.1	33.7	34.2	34.7	35.2	35.7	36.1	36.4	36.8	37.1	37.5	37.8	38.1	38.3
39.5	25.6	27.4	28.8	30.1	31.1	32.0	32.8	33.4	34.1	34.6	35.2	35.6	36.1	36.5	36.9	37.3	37.6	37.9	38.3	38.5	38.8
40.0	25.9	27.7	29.2	30.4	31.4	32.3	33.1	33.8	34.5	35.1	35.6	36.1	36.5	37.0	37.3	37.7	38.1	38.4	38.7	39.0	39.3
40.5	26.1	28.0	29.5	30.7	31.8	32.7	33.5	34.2	34.9	35.5	36.0	36.5	37.0	37.4	37.8	38.2	38.5	38.9	39.2	39.5	39.8
41.0	26.4	28.3	29.8	31.1	32.2	33.1	33.9	34.6	35.3	35.9	36.4	36.9	37.4	37.8	38.3	38.6	39.0	39.3	39.7	40.0	40.3
41.5	26.7	28.6	30.2	31.4	32.5	33.5	34.3	35.0	35.7	36.3	36.9	37.4	37.8	38.3	38.7	39.1	39.5	39.8	40.2	40.5	40.8
42.0	27.0	28.9	30.5	31.8	32.9	33.8	34.7	35.4	36.1	36.7	37.3	37.8	38.3	38.7	39.2	39.6	39.9	40.3	40.6	41.0	41.3
42.5	27.3	29.2	30.8	32.1	33.2	34.2	35.1	35.8	36.5	37.1	37.7	38.2	38.7	39.2	39.6	40.0	40.4	40.8	41.1	41.4	41.8
43.0	27.5	29.5	31.1	32.5	33.6	34.6	35.4	36.2	36.9	37.5	38.1	38.7	39.1	39.6	40.1	40.5	40.9	41.2	41.6	41.9	42.2
43.5	27.8	29.8	31.4	32.8	33.9	34.9	35.8	36.6	37.3	37.9	38.5	39.1	39.6	40.1	40.5	40.9	41.3	41.7	42.1	42.4	42.7
44.0	28.1	30.1	31.8	33.1	34.3	35.3	36.2	37.0	37.7	38.4	39.0	39.5	40.0	40.5	41.0	41.4	41.8	42.2	42.5	42.9	43.2
44.5	28.4	30.4	32.1	33.5	34.6	35.7	36.6	37.4	38.1	38.8	39.4	39.9	40.5	40.9	41.4	41.8	42.2	42.6	43.0	43.4	43.7
45.0	28.6	30.7	32.4	33.8	35.0	36.0	36.9	37.8	38.5	39.2	39.8	40.4	40.9	41.4	41.8	42.3	42.7	43.1	43.5	43.8	44.2
45.5	28.9	31.0	32.7	34.1	35.4	36.4	37.3	38.2	38.9	39.6	40.2	40.8	41.3	41.8	42.3	42.7	43.2	43.6	44.0	44.3	44.7
46.0	29.2	31.3	33.0	34.5	35.7	36.8	37.7	38.5	39.3	40.0	40.6	41.2	41.8	42.3	42.7	43.2	43.6	44.0	44.4	44.8	45.2
46.5	29.5	31.6	33.4	34.8	36.1	37.1	38.1	38.9	39.7	40.4	41.0	41.6	42.2	42.7	43.2	43.6	44.1	44.5	44.9	45.3	45.6
47.0	29.7	31.9	33.7	35.1	36.4	37.5	38.5	39.3	40.1	40.8	41.4	42.1	42.6	43.1	43.6	44.1	44.5	45.0	45.4	45.8	46.1
47.5	30.0	32.2	34.0	35.5	36.7	37.9	38.8	39.7	40.5	41.2	41.9	42.5	43.0	43.6	44.1	44.6	45.0	45.4	45.8	46.2	46.6
48.0	30.3	32.5	34.3	35.8	37.1	38.2	39.2	40.1	40.9	41.6	42.3	42.9	43.5	44.0	44.5	45.0	45.5	45.9	46.3	46.7	47.1
48.5	30.5	32.8	34.6	36.1	37.4	38.6	39.6	40.5	41.3	42.0	42.7	43.3	43.9	44.5	45.0	45.5	45.9	46.4	46.8	47.2	47.6
49.0	30.8	33.1	34.9	36.5	37.8	38.9	39.9	40.8	41.7	42.4	43.1	43.7	44.3	44.9	45.4	45.9	46.4	46.8	47.3	47.7	48.1
49.5	31.1	33.4	35.2	36.8	38.1	39.3	40.3	41.2	42.1	42.8	43.5	44.2	44.8	45.3	45.9	46.4	46.8	47.3	47.7	48.2	48.6
50.0	31.3	33.7	35.6	37.1	38.5	39.6	40.7	41.6	42.5	43.2	43.9	44.6	45.2	45.8	46.3	46.8	47.3	47.8	48.2	48.6	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR MULBERRY

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.7	3.8	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	3.8	4.0	4.2	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.2	4.4	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.5	4.8	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4
7.0	4.9	5.2	5.4	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9
7.5	5.3	5.6	5.8	6.0	6.2	6.3	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.6	6.0	6.2	6.4	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	6.0	6.3	6.6	6.8	7.0	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4	8.4
9.0	6.4	6.7	7.0	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9	8.9
9.5	6.8	7.1	7.4	7.7	7.9	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	9.3	9.4	9.4
10.0	7.1	7.5	7.9	8.1	8.3	8.5	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.7	9.8	9.9	9.9
10.5	7.5	7.9	8.3	8.5	8.8	9.0	9.2	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4
11.0	7.9	8.3	8.7	9.0	9.2	9.4	9.6	9.8	9.9	10.0	10.2	10.3	10.4	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9
11.5	8.3	8.7	9.1	9.4	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.3	11.4
12.0	8.7	9.1	9.5	9.8	10.1	10.3	10.5	10.7	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.7	11.8	11.8	11.9
12.5	9.1	9.6	9.9	10.3	10.5	10.8	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.3	12.4
13.0	9.5	10.0	10.4	10.7	11.0	11.2	11.4	11.6	11.8	11.9	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.8	12.8	12.9
13.5	9.9	10.4	10.8	11.1	11.4	11.7	11.9	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.1	13.2	13.3	13.3	13.4
14.0	10.3	10.8	11.2	11.6	11.9	12.1	12.4	12.6	12.7	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.6	13.7	13.8	13.8	13.9
14.5	10.7	11.2	11.7	12.0	12.3	12.6	12.8	13.0	13.2	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.1	14.2	14.3	14.3	14.4
15.0	11.1	11.6	12.1	12.5	12.8	13.1	13.3	13.5	13.7	13.9	14.0	14.1	14.3	14.4	14.5	14.5	14.6	14.7	14.8	14.8	14.9
15.5	11.5	12.0	12.5	12.9	13.2	13.5	13.8	14.0	14.2	14.3	14.5	14.6	14.7	14.9	15.0	15.0	15.1	15.2	15.3	15.3	15.4
16.0	11.9	12.5	13.0	13.4	13.7	14.0	14.2	14.5	14.7	14.8	15.0	15.1	15.2	15.3	15.5	15.5	15.6	15.7	15.8	15.8	15.9
16.5	12.3	12.9	13.4	13.8	14.2	14.5	14.7	14.9	15.1	15.3	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.3	16.4
17.0	12.7	13.3	13.8	14.3	14.6	14.9	15.2	15.4	15.6	15.8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.8	16.9
17.5	13.1	13.7	14.3	14.7	15.1	15.4	15.7	15.9	16.1	16.3	16.4	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.3	17.4
18.0	13.5	14.2	14.7	15.2	15.5	15.9	16.1	16.4	16.6	16.8	16.9	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.8	17.9
18.5	13.9	14.6	15.2	15.6	16.0	16.3	16.6	16.9	17.1	17.3	17.4	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.3	18.4
19.0	14.3	15.0	15.6	16.1	16.5	16.8	17.1	17.3	17.6	17.8	17.9	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.8	18.9
19.5	14.8	15.5	16.1	16.5	16.9	17.3	17.6	17.8	18.1	18.3	18.4	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.3	19.4
20.0	15.2	15.9	16.5	17.0	17.4	17.8	18.1	18.3	18.5	18.7	18.9	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.8	19.9
20.5	15.6	16.4	17.0	17.5	17.9	18.2	18.5	18.8	19.0	19.2	19.4	19.6	19.7	19.8	20.0	20.0	20.1	20.2	20.3	20.3	20.4
21.0	16.0	16.8	17.4	17.9	18.4	18.7	19.0	19.3	19.5	19.7	19.9	20.1	20.2	20.3	20.5	20.6	20.6	20.7	20.8	20.8	20.9
21.5	16.5	17.3	17.9	18.4	18.8	19.2	19.5	19.8	20.0	20.2	20.4	20.6	20.7	20.9	21.0	21.1	21.1	21.2	21.3	21.4	21.4
22.0	16.9	17.7	18.4	18.9	19.3	19.7	20.0	20.3	20.5	20.7	20.9	21.1	21.2	21.4	21.5	21.6	21.7	21.7	21.8	21.9	21.9
22.5	17.3	18.2	18.8	19.4	19.8	20.2	20.5	20.8	21.0	21.2	21.4	21.6	21.7	21.9	22.0	22.1	22.2	22.2	22.3	22.4	22.4
23.0	17.8	18.6	19.3	19.8	20.3	20.7	21.0	21.3	21.5	21.7	21.9	22.1	22.2	22.4	22.5	22.6	22.7	22.7	22.8	22.9	22.9
23.5	18.2	19.1	19.7	20.3	20.8	21.2	21.5	21.8	22.0	22.2	22.4	22.6	22.8	22.9	23.0	23.1	23.2	23.2	23.3	23.4	23.4
24.0	18.6	19.5	20.2	20.8	21.3	21.6	22.0	22.3	22.5	22.8	22.9	23.1	23.3	23.4	23.5	23.6	23.7	23.8	23.8	23.9	23.9
24.5	19.1	20.0	20.7	21.3	21.7	22.1	22.5	22.8	23.0	23.3	23.5	23.6	23.8	23.9	24.0	24.1	24.2	24.3	24.3	24.4	24.4
25.0	19.3	20.4	21.2	21.7	22.2	22.6	23.0	23.3	23.5	23.8	24.0	24.1	24.3	24.4	24.5	24.6	24.7	24.8	24.8	24.9	24.9
25.5	20.0	20.9	21.6	22.2	22.7	23.1	23.5	23.8	24.1	24.3	24.5	24.6	24.8	24.9	25.0	25.1	25.2	25.3	25.3	25.4	25.4
26.0	20.4	21.4	22.1	22.7	23.2	23.6	24.0	24.3	24.6	24.8	25.0	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	25.9	25.9
26.5	20.9	21.8	22.6	23.2	23.7	24.1	24.5	24.8	25.1	25.3	25.5	25.7	25.8	25.9	26.1	26.2	26.2	26.3	26.4	26.4	26.4
27.0	21.3	22.3	23.1	23.7	24.2	24.6	25.0	25.3	25.6	25.8	26.0	26.2	26.3	26.5	26.6	26.7	26.7	26.8	26.9	26.9	26.9
27.5	21.8	22.8	23.6	24.2	24.7	25.1	25.5	25.8	26.1	26.3	26.5	26.7	26.9	27.0	27.1	27.2	27.3	27.3	27.4	27.4	27.5
28.0	22.3	23.3	24.0	24.7	25.2	25.6	26.0	26.3	26.6	26.8	27.0	27.2	27.4	27.5	27.6	27.7	27.8	27.8	27.9	27.9	28.0
28.5	22.7	23.7	24.5	25.2	25.7	26.2	26.5	26.9	27.1	27.4	27.6	27.7	27.9	28.0	28.1	28.2	28.3	28.4	28.4	28.4	28.5
29.0	23.2	24.2	25.0	25.7	26.2	26.7	27.0	27.4	27.6	27.9	28.1	28.3	28.4	28.5	28.6	28.7	28.8	28.9	28.9	28.9	29.0
29.5	23.6	24.7	25.5	26.2	26.7	27.2	27.6	27.9	28.2	28.4	28.6	28.8	28.9	29.1	29.2	29.2	29.3	29.4	29.4	29.5	29.5
30.0	24.1	25.2	26.0	26.7	27.2	27.7	28.1	28.4	28.7	28.9	29.1	29.3	29.5	29.6	29.7	29.8	29.8	29.9	29.9	30.0	30.0
30.5	24.6	25.7	26.5	27.2	27.7	28.2	28.6	28.9	29.2	29.4	29.7	29.8	30.0	30.1	30.2	30.3	30.4	30.4	30.4	30.5	30.5
31.0	25.1	26.1	27.0	27.7	28.2	28.7	29.1	29.4	29.7	30.0	30.2	30.4	30.5	30.6	30.7	30.8	30.9	30.9	31.0	31.0	31.0
31.5	25.5	26.6	27.5	28.2	28.8	29.2	29.6	30.0	30.3	30.5	30.7	30.9	31.0	31.1	31.2	31.3	31.4	31.4	31.5	31.5	31.5
32.0	26.0	27.1	28.0	28.7	29.3	29.8	30.2	30.5	30.8	31.0	31.2	31.4	31.5	31.7	31.8	31.8	31.9	32.0	32.0	32.0	32.0
32.5	26.5	27.6	28.5	29.2	29.8	30.3	30.7	31.0	31.3	31.6	31.8	31.9	32.1	32.2	32.3	32.4	32.4	32.5	32.5	32.5	32.5
33.0	27.0	28.1	29.0	29.7	30.3	30.8	31.2	31.6	31.8	32.1	32.3	32.5	32.6	32.7	32.8	32.9	32.9	33.0	33.0	33.0	33.0
33.5	27.5	28.6	29.5	30.2	30.8	31.3	31.7	32.1	32.4	32.6	32.8	33.0	33.1	33.2	33.3	33.4	33.5	33.5	33.5	33.5	33.5

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR WATER TUPELO

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	2.4	2.5	2.7	2.8	2.9	3.1	3.2	3.3	3.5	3.6	3.7	3.8	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
5.5	2.7	2.8	2.9	3.1	3.2	3.4	3.5	3.7	3.8	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2
6.0	2.9	3.1	3.2	3.4	3.5	3.7	3.9	4.0	4.2	4.3	4.5	4.6	4.7	4.9	5.0	5.1	5.3	5.4	5.5	5.6	5.7
6.5	3.2	3.3	3.5	3.7	3.8	4.0	4.2	4.4	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.8	6.0	6.1	6.2
7.0	3.4	3.6	3.8	4.0	4.1	4.3	4.5	4.7	4.9	5.0	5.2	5.4	5.5	5.7	5.8	6.0	6.1	6.3	6.4	6.5	6.7
7.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8	5.0	5.2	5.4	5.6	5.8	5.9	6.1	6.3	6.4	6.6	6.7	6.9	7.0	7.2
8.0	3.9	4.1	4.3	4.5	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.3	6.5	6.7	6.9	7.0	7.2	7.3	7.5	7.6
8.5	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.1	7.3	7.5	7.6	7.8	8.0	8.1
9.0	4.5	4.7	4.9	5.1	5.4	5.6	5.8	6.1	6.3	6.5	6.7	6.9	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.4	8.6
9.5	4.7	4.9	5.2	5.4	5.7	5.9	6.2	6.4	6.7	6.9	7.1	7.3	7.5	7.7	8.0	8.2	8.3	8.5	8.7	8.9	9.1
10.0	5.0	5.2	5.5	5.7	6.0	6.3	6.5	6.8	7.0	7.3	7.5	7.7	7.9	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6
10.5	5.2	5.5	5.7	6.0	6.3	6.6	6.8	7.1	7.4	7.6	7.9	8.1	8.3	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0
11.0	5.5	5.8	6.0	6.3	6.6	6.9	7.2	7.5	7.7	8.0	8.3	8.5	8.8	9.0	9.2	9.5	9.7	9.9	10.1	10.3	10.5
11.5	5.8	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.6	8.9	9.2	9.4	9.6	9.9	10.1	10.3	10.6	10.8	11.0
12.0	6.0	6.3	6.6	6.9	7.2	7.5	7.9	8.2	8.5	8.7	9.0	9.3	9.6	9.8	10.1	10.3	10.6	10.8	11.0	11.3	11.5
12.5	6.3	6.6	6.9	7.2	7.6	7.9	8.2	8.5	8.8	9.1	9.4	9.7	10.0	10.2	10.5	10.8	11.0	11.3	11.5	11.7	12.0
13.0	6.6	6.9	7.2	7.5	7.9	8.2	8.5	8.9	9.2	9.5	9.8	10.1	10.4	10.7	10.9	11.2	11.5	11.7	12.0	12.2	12.4
13.5	6.8	7.2	7.5	7.8	8.2	8.5	8.9	9.2	9.5	9.9	10.2	10.5	10.8	11.1	11.4	11.6	11.9	12.2	12.4	12.7	12.9
14.0	7.1	7.4	7.8	8.1	8.5	8.9	9.2	9.6	9.9	10.2	10.6	10.9	11.2	11.5	11.8	12.1	12.3	12.6	12.9	13.1	13.4
14.5	7.4	7.7	8.1	8.4	8.8	9.2	9.6	9.9	10.3	10.6	11.0	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.3	13.6	13.9
15.0	7.7	8.0	8.4	8.8	9.1	9.5	9.9	10.3	10.6	11.0	11.3	11.7	12.0	12.3	12.6	12.9	13.2	13.5	13.8	14.1	14.4
15.5	7.9	8.3	8.7	9.1	9.5	9.9	10.2	10.6	11.0	11.4	11.7	12.1	12.4	12.7	13.1	13.4	13.7	14.0	14.3	14.6	14.8
16.0	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.1	12.5	12.8	13.2	13.5	13.8	14.1	14.4	14.7	15.0	15.3
16.5	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.3	11.7	12.1	12.5	12.9	13.2	13.6	13.9	14.3	14.6	14.9	15.2	15.5	15.8
17.0	8.8	9.2	9.6	10.0	10.4	10.9	11.3	11.7	12.1	12.5	12.9	13.3	13.6	14.0	14.4	14.7	15.0	15.4	15.7	16.0	16.3
17.5	9.1	9.4	9.9	10.3	10.8	11.2	11.6	12.1	12.5	12.9	13.3	13.7	14.1	14.4	14.8	15.1	15.5	15.8	16.1	16.4	16.8
18.0	9.3	9.7	10.2	10.6	11.1	11.5	12.0	12.4	12.9	13.3	13.7	14.1	14.5	14.8	15.2	15.6	15.9	16.3	16.6	16.9	17.2
18.5	9.6	10.0	10.5	10.9	11.4	11.9	12.3	12.8	13.2	13.7	14.1	14.5	14.9	15.3	15.6	16.0	16.4	16.7	17.1	17.4	17.7
19.0	9.9	10.3	10.8	11.3	11.7	12.2	12.7	13.2	13.6	14.0	14.5	14.9	15.3	15.7	16.1	16.5	16.8	17.2	17.5	17.9	18.2
19.5	10.2	10.6	11.1	11.6	12.1	12.6	13.0	13.5	14.0	14.4	14.9	15.3	15.7	16.1	16.5	16.9	17.3	17.6	18.0	18.3	18.7
20.0	10.5	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.8	15.3	15.7	16.1	16.5	16.9	17.3	17.7	18.1	18.5	18.8	19.2
20.5	10.8	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.1	16.5	17.0	17.4	17.8	18.2	18.6	18.9	19.3	19.6
21.0	11.1	11.5	12.0	12.5	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.5	17.0	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.1
21.5	11.3	11.8	12.3	12.9	13.4	13.9	14.5	15.0	15.5	16.0	16.5	16.9	17.4	17.8	18.2	18.7	19.1	19.5	19.9	20.2	20.6
22.0	11.6	12.1	12.6	13.2	13.7	14.3	14.8	15.3	15.9	16.4	16.9	17.3	17.8	18.2	18.7	19.1	19.5	19.9	20.3	20.7	21.1
22.5	11.9	12.4	13.0	13.5	14.1	14.6	15.2	15.7	16.2	16.8	17.3	17.7	18.2	18.7	19.1	19.6	20.0	20.4	20.8	21.2	21.6
23.0	12.2	12.7	13.3	13.8	14.4	15.0	15.5	16.1	16.6	17.1	17.7	18.1	18.6	19.1	19.6	20.0	20.4	20.9	21.3	21.7	22.1
23.5	12.5	13.0	13.6	14.2	14.7	15.3	15.9	16.5	17.0	17.5	18.1	18.6	19.0	19.5	20.0	20.4	20.9	21.3	21.7	22.1	22.5
24.0	12.8	13.3	13.9	14.5	15.1	15.7	16.3	16.8	17.4	17.9	18.5	19.0	19.5	20.0	20.4	20.9	21.3	21.8	22.2	22.6	23.0
24.5	13.1	13.6	14.2	14.8	15.4	16.0	16.6	17.2	17.8	18.3	18.9	19.4	19.9	20.4	20.9	21.3	21.8	22.2	22.7	23.1	23.5
25.0	13.4	13.9	14.5	15.1	15.8	16.4	17.0	17.6	18.1	18.7	19.3	19.8	20.3	20.8	21.3	21.8	22.2	22.7	23.1	23.6	24.0
25.5	13.7	14.3	14.9	15.5	16.1	16.7	17.3	17.9	18.5	19.1	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.6	24.0	24.5
26.0	14.0	14.6	15.2	15.8	16.4	17.1	17.7	18.3	18.9	19.5	20.1	20.6	21.2	21.7	22.2	22.7	23.2	23.6	24.1	24.5	25.0
26.5	14.3	14.9	15.5	16.1	16.8	17.4	18.1	18.7	19.3	19.9	20.5	21.0	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.0	25.4
27.0	14.6	15.2	15.8	16.5	17.1	17.8	18.4	19.1	19.7	20.3	20.9	21.4	22.0	22.5	23.1	23.6	24.1	24.6	25.0	25.5	25.9
27.5	14.9	15.5	16.2	16.8	17.5	18.2	18.8	19.4	20.1	20.7	21.3	21.9	22.4	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.4
28.0	15.2	15.8	16.5	17.2	17.8	18.5	19.2	19.8	20.5	21.1	21.7	22.3	22.8	23.4	23.9	24.5	25.0	25.5	26.0	26.4	26.9
28.5	15.6	16.1	16.8	17.5	18.2	18.9	19.5	20.2	20.9	21.5	22.1	22.7	23.3	23.8	24.4	24.9	25.4	25.9	26.4	26.9	27.4
29.0	15.9	16.5	17.1	17.8	18.5	19.2	19.9	20.6	21.2	21.9	22.5	23.1	23.7	24.3	24.8	25.4	25.9	26.4	26.9	27.4	27.9
29.5	16.2	16.8	17.5	18.2	18.9	19.6	20.3	21.0	21.6	22.3	22.9	23.5	24.1	24.7	25.3	25.8	26.4	26.9	27.4	27.9	28.3
30.0	16.5	17.1	17.8	18.5	19.2	20.0	20.7	21.4	22.0	22.7	23.3	23.9	24.6	25.1	25.7	26.3	26.8	27.3	27.8	28.3	28.8
30.5	16.8	17.4	18.1	18.9	19.6	20.3	21.0	21.7	22.4	23.1	23.7	24.4	25.0	25.6	26.2	26.7	27.3	27.8	28.3	28.8	29.3
31.0	17.1	17.8	18.5	19.2	19.9	20.7	21.4	22.1	22.8	23.5	24.1	24.8	25.4	26.0	26.6	27.2	27.7	28.3	28.8	29.3	29.8
31.5	17.4	18.1	18.8	19.5	20.3	21.0	21.8	22.5	23.2	23.9	24.6	25.2	25.8	26.4	27.0	27.6	28.2	28.7	29.3	29.8	30.3
32.0	17.8	18.4	19.1	19.9	20.7	21.4	22.2	22.9	23.6	24.3	25.0	25.6	26.3	26.9	27.5	28.1	28.6	29.2	29.7	30.3	30.8
32.5	18.1	18.7	19.5	20.2	21.0	21.8	22.5	23.3	24.0	24.7	25.4	26.0	26.7	27.3	27.9	28.5	29.1	29.7	30.2	30.7	31.3
33.0	18.4	19.1	19.8	20.6	21.4	22.1	22.9	23.7	24.4	25.1	25.8	26.5	27.1	27.8	28.4	29.0	29.6	30.1	30.7	31.2	31.7
33.5	18.7	19.4	20.1	20.9	21.7	22.5	23.3	24.0	24.8	25.5	26.2	26.9	27.6	28.2	28.8	29.4	30.0	30.6	31.2	31.7	32.2
34.0	19.0	19.7	20.5	21.3	22.1	22.9	23.7	24.4	25.2	25.9	26.6	27.3	28.0	28.6	29.3	29.9	30.5	31.1	31.6	32.2	32.7
34.5	19.4	20.1	20.8	21.6	22.4	23.3	24.0	24.8	25.6	26.3	27.0	27.7	28.4	29.1	29.7	30.3	30.9	31.5	32.1	32.7	33.2
35.0	19.7	20.4	21.2	22.0	22.8	23.6	24.4	25.2	26.0	26.7	27.5	28.2	28.9	29.5	30.2	30.8	31.4	32.0	32.6	33.1	33.7
35.5	20.0	20.7	21.5	22.3	23.2	24.0	24.8	25.6	26.4	27.1	27.9	28.6	29.3	30.0	30.6	31.2	31.9	32.5	33.1	33.6	34.2
36.0	20.3	21.1	21.9	22.7	23.5	24.4	25.2	26.0	26.8	27.6	28.3	29.0	29.7	30.4	31.1	31.7	32.3	32.9	33.5	34.1	34.7
36.5	20.7	21.4	22.2	23.0	23.9	24.7	25.6	26.4	27.2	28.0	28.7	29.4	30.2	30.8	31.5	32.2	32.8	33.4	34.0	34.6	35.1
37.0	21.0	21.7	22.6	23.4	24.3	25.1	26.0	26.8	27.6	28.4	29.1	29.9	30.6	31.3	32.0	32.6	33.3	33.9	34.5	35.1	35.6
37.5	21.3	22.1	22.9	23.8	24.6	25.5	26.4	27.2	28.0	28.8	29.6	30.3	31.0	31.7	32.4	33.1	33.7	34.3	35.0	35.5	36.1
38.0	21.7	22.4	23.3	24.1	25.0	25.9	26.7	27.6	28.4	29.2	30.0	30.7	31.5	32.2	32.9	33.5	34.2	34.8	35.4	36.0	36.6
38.5	22.0	22.8	23.6	24.5	25.4	26.3	27.1	28.0	28.8	29.6	30.4	31.2	31.9	32.6	33.3	34.0	34.6	35.3	35.9	36.5	37.1
39.0	22.3	23.1	24.0	24.8	25.7	26.6	27.5	28.4	29.2	30.0	30.8	31.6	32.3	33.1	33.8	34.4	35.1	35.8	36.4	37.0	37.6
39.5	22.7	23.4	24.3	25.2	26.1	27.0	27.9	28.8	29.6	30.4	31.2	32.0	32.8	33.5	34.2	34.9	35.6	36.2	36.9	37.5	38.1
40.0	23.0	23.8	24.7	25.6	26.5	27.4	28.3	29.2	30.0	30.9	31.7	32.5	33.2	34.0	34.7	35.4	36.0	36.7	37.3	38.0	38.6
40.5	23.4	24.1	25.0	25.9	26.9	27.8	28.7	29.6	30.4	31.3	32.1	32.9	33.7	34.4	35.1	35.8	36.5	37.2	37.8	38.4	39.0
41.0	23.7	24.5	25.4	26.3	27.2	28.2	29.1	30.0	30.8	31.7	32.5	33.3	34.1	34.8	35.6	36.3	37.0	37.6	38.3	38.9	39.5
41.5	24.0	24.8	25.7	26.7	27.6	28.6	29.5	30.4	31.3	32.1	32.9	33.8	34.5	35.3	36.0	36.7	37.4	38.1	38.8	39.4	40.0
42.0	24.4	25.2	26.1	27.0	28.0	28.9	29.9	30.8	31.7	32.5	33.4	34.2	35.0	35.7	36.5	37.2	37.9	38.6	39.2	39.9	40.5
42.5	24.7	25.5	26.5	27.4	28.4	29.3	30.3	31.2	32.1	33.0	33.8	34.6	35.4	36.2	36.9	37.7	38.4	39.1	39.7	40.4	41.0
43.0	25.1	25.9	26.8	27.8	28.7	29.7	30.7	31.6	32.5	33.4	34.2	35.1	35.9	36.6	37.4	38.1	38.8	39.5	40.2	40.9	41.5
43.5	25.4	26.2	27.2	28.1	29.1	30.1	31.1	32.0	32.9	33.8	34.7	35.5	36.3	37.1	37.9	38.6	39.3	40.0	40.7	41.3	42.0
44.0	25.8	26.6	27.5	28.5	29.5	30.5	31.5	32.4	33.3	34.2	35.1	35.9	36.7	37.5	38.3	39.1	39.8	40.5	41.2	41.8	42.5
44.5	26.1	27.0	27.9	28.9	29.9	30.9	31.9	32.8	33.7	34.6	35.5	36.4	37.2	38.0	38.8	39.5	40.2	41.0	41.6	42.3	43.0
45.0	26.5	27.3	28.3	29.3	30.3	31.3	32.3	33.2	34.2	35.1	35.9	36.8	37.6	38.4	39.2	40.0	40.7	41.4	42.1	42.8	43.4
45.5	26.8	27.7	28.6	29.6	30.7	31.7	32.7	33.6	34.6	35.5	36.4	37.2	38.1	38.9	39.7	40.4	41.2	41.9	42.6	43.3	43.9
46.0	27.2	28.0	29.0	30.0	31.0	32.1	33.1	34.0	35.0	35.9	36.8	37.7	38.5	39.3	40.1	40.9	41.7	42.4	43.1	43.8	44.4
46.5	27.5	28.4	29.4	30.4	31.4	32.5	33.5	34.5	35.4	36.3	37.2	38.1	39.0	39.8	40.6	41.4	42.1	42.9	43.6	44.2	44.9
47.0	27.9	28.8	29.7	30.8	31.8	32.9	33.9	34.9	35.8	36.8	37.7	38.6	39.4	40.3	41.1	41.8	42.6	43.3	44.0	44.7	45.4
47.5	28.3	29.1	30.1	31.2	32.2	33.3	34.3	35.3	36.3	37.2	38.1	39.0	39.9	40.7	41.5	42.3	43.1	43.8	44.5	45.2	45.9
48.0	28.6	29.5	30.5	31.5	32.6	33.6	34.7	35.7	36.7	37.6	38.6	39.4	40.3	41.2	42.0	42.8	43.5	44.3	45.0	45.7	46.4
48.5	29.0	29.9	30.9	31.9	33.0	34.0	35.1	36.1	37.1	38.1	39.0	39.9	40.8	41.6	42.4	43.2	44.0	44.8	45.5	46.2	46.9
49.0	29.3	30.2	31.2	32.3	33.4	34.4	35.5	36.5	37.5	38.5	39.4	40.3	41.2	42.1	42.9	43.7	44.5	45.2	46.0	46.7	47.4
49.5	29.7	30.6	31.6	32.7	33.8	34.8	35.9	36.9	37.9	38.9	39.9	40.8	41.7	42.5	43.4	44.2	45.0	45.7	46.4	47.2	47.9
50.0	30.1	31.0	32.0	33.1	34.2	35.3	36.3	37.4	38.4	39.3	40.3	41.2	42.1	43.0	43.8	44.6	45.4	46.2	46.9	47.6	48.3

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR UPLAND BLACKGUM

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.7	3.8	4.0	4.1	4.2	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.9	4.9	4.9
5.5	3.9	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4
6.0	4.2	4.4	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.6	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	4.9	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.6	6.7	6.8	6.8	6.8	6.9
7.5	5.3	5.5	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4
8.0	5.6	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9
8.5	6.0	6.3	6.5	6.7	6.9	7.1	7.2	7.3	7.4	7.6	7.7	7.7	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4
9.0	6.3	6.6	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.9
9.5	6.6	7.0	7.3	7.5	7.7	7.9	8.0	8.2	8.3	8.4	8.6	8.7	8.8	8.8	8.8	8.9	9.0	9.1	9.2	9.2	9.3	9.4
10.0	7.0	7.3	7.6	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8
10.5	7.3	7.7	8.0	8.3	8.5	8.7	8.9	9.0	9.2	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.3	10.3
11.0	7.7	8.1	8.4	8.7	8.9	9.1	9.3	9.5	9.6	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.8
11.5	8.0	8.4	8.8	9.0	9.3	9.5	9.7	9.9	10.1	10.2	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3
12.0	8.4	8.8	9.1	9.4	9.7	9.9	10.1	10.3	10.5	10.6	10.8	10.9	11.0	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.8
12.5	8.7	9.1	9.5	9.8	10.1	10.3	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3
13.0	9.0	9.5	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8
13.5	9.4	9.9	10.3	10.6	10.9	11.2	11.4	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.7	10.2	10.6	11.0	11.3	11.6	11.8	12.0	12.2	12.4	12.6	12.7	12.9	13.0	13.1	13.3	13.4	13.5	13.6	13.7	13.8
14.5	10.1	10.6	11.0	11.4	11.7	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8	14.0	14.1	14.2	14.3
15.0	10.4	10.9	11.4	11.8	12.1	12.4	12.6	12.9	13.1	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.4	14.6	14.7	14.8
15.5	10.7	11.3	11.8	12.1	12.5	12.8	13.0	13.3	13.5	13.7	13.9	14.1	14.2	14.4	14.5	14.7	14.8	14.9	15.0	15.1	15.3
16.0	11.1	11.7	12.1	12.5	12.9	13.2	13.5	13.7	13.9	14.1	14.3	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.5	15.6	15.7
16.5	11.4	12.0	12.5	12.9	13.3	13.6	13.9	14.1	14.4	14.6	14.8	15.0	15.1	15.3	15.5	15.6	15.7	15.9	16.0	16.1	16.2
17.0	11.8	12.4	12.9	13.3	13.7	14.0	14.3	14.6	14.8	15.0	15.2	15.4	15.6	15.8	15.9	16.1	16.2	16.4	16.5	16.6	16.7
17.5	12.1	12.7	13.2	13.7	14.1	14.4	14.7	15.0	15.2	15.5	15.7	15.9	16.1	16.2	16.4	16.5	16.7	16.8	17.0	17.1	17.2
18.0	12.4	13.1	13.6	14.1	14.5	14.8	15.1	15.4	15.7	15.9	16.1	16.3	16.5	16.7	16.9	17.0	17.2	17.3	17.4	17.6	17.7
18.5	12.8	13.4	14.0	14.4	14.8	15.2	15.5	15.8	16.1	16.3	16.6	16.8	17.0	17.1	17.3	17.5	17.6	17.8	17.9	18.1	18.2
19.0	13.1	13.8	14.3	14.8	15.2	15.6	15.9	16.2	16.5	16.8	17.0	17.2	17.4	17.6	17.8	18.0	18.1	18.3	18.4	18.6	18.7
19.5	13.4	14.1	14.7	15.2	15.6	16.0	16.4	16.7	16.9	17.2	17.4	17.7	17.9	18.1	18.2	18.4	18.6	18.7	18.9	19.0	19.2
20.0	13.8	14.5	15.1	15.6	16.0	16.4	16.8	17.1	17.4	17.6	17.9	18.1	18.3	18.5	18.7	18.9	19.1	19.2	19.4	19.5	19.7
20.5	14.1	14.8	15.4	16.0	16.4	16.8	17.2	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.2	19.4	19.5	19.7	19.9	20.0	20.2
21.0	14.4	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.5	18.8	19.0	19.2	19.4	19.6	19.8	20.0	20.2	20.3	20.5	20.7
21.5	14.8	15.5	16.2	16.7	17.2	17.6	18.0	18.3	18.6	18.9	19.2	19.4	19.7	19.9	20.1	20.3	20.5	20.7	20.8	21.0	21.1
22.0	15.1	15.9	16.5	17.1	17.6	18.0	18.4	18.8	19.1	19.4	19.6	19.9	20.1	20.4	20.6	20.8	21.0	21.1	21.3	21.5	21.6
22.5	15.4	16.2	16.9	17.5	18.0	18.4	18.8	19.2	19.5	19.8	20.1	20.3	20.6	20.8	21.0	21.2	21.4	21.6	21.8	22.0	22.1
23.0	15.8	16.6	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.8	21.0	21.3	21.5	21.7	21.9	22.1	22.3	22.4	22.6
23.5	16.1	16.9	17.6	18.2	18.8	19.2	19.6	20.0	20.4	20.7	21.0	21.2	21.5	21.7	22.0	22.2	22.4	22.6	22.8	22.9	23.1
24.0	16.4	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.8	21.1	21.4	21.7	21.9	22.2	22.4	22.6	22.8	23.0	23.2	23.4	23.6
24.5	16.7	17.6	18.4	19.0	19.5	20.0	20.4	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9	23.1	23.3	23.5	23.7	23.9	24.1
25.0	17.1	18.0	18.7	19.4	19.9	20.4	20.9	21.3	21.6	22.0	22.3	22.6	22.8	23.1	23.3	23.6	23.8	24.0	24.2	24.4	24.6
25.5	17.4	18.3	19.1	19.7	20.3	20.8	21.3	21.7	22.0	22.4	22.7	23.0	23.3	23.6	23.8	24.0	24.3	24.5	24.7	24.9	25.1
26.0	17.7	18.7	19.4	20.1	20.7	21.2	21.7	22.1	22.5	22.8	23.2	23.5	23.7	24.0	24.3	24.5	24.7	25.0	25.2	25.4	25.6
26.5	18.1	19.0	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.3	23.6	23.9	24.2	24.5	24.7	25.0	25.2	25.4	25.6	25.8	26.0
27.0	18.4	19.4	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.7	24.0	24.3	24.6	24.9	25.2	25.4	25.7	25.9	26.1	26.3	26.5
27.5	18.7	19.7	20.5	21.2	21.9	22.4	22.9	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.6	25.9	26.1	26.4	26.6	26.8	27.0
28.0	19.0	20.0	20.9	21.6	22.2	22.8	23.3	23.7	24.2	24.5	24.9	25.2	25.5	25.8	26.1	26.4	26.6	26.9	27.1	27.3	27.5
28.5	19.4	20.4	21.2	22.0	22.6	23.2	23.7	24.2	24.6	25.0	25.3	25.7	26.0	26.3	26.6	26.8	27.1	27.3	27.6	27.8	28.0
29.0	19.7	20.7	21.6	22.4	23.0	23.6	24.1	24.6	25.0	25.4	25.8	26.1	26.4	26.7	27.0	27.3	27.6	27.8	28.0	28.3	28.5
29.5	20.0	21.1	22.0	22.7	23.4	24.0	24.5	25.0	25.4	25.8	26.2	26.6	26.9	27.2	27.5	27.8	28.0	28.3	28.5	28.8	29.0
30.0	20.3	21.4	22.3	23.1	23.8	24.4	24.9	25.4	25.8	26.3	26.6	27.0	27.3	27.7	27.9	28.2	28.5	28.8	29.0	29.2	29.5
30.5	20.7	21.8	22.7	23.5	24.2	24.8	25.3	25.8	26.3	26.7	27.1	27.4	27.8	28.1	28.4	28.7	29.0	29.2	29.5	29.7	30.0
31.0	21.0	22.1	23.0	23.8	24.5	25.2	25.7	26.2	26.7	27.1	27.5	27.9	28.2	28.6	28.9	29.2	29.4	29.7	30.0	30.2	30.4
31.5	21.3	22.4	23.4	24.2	24.9	25.6	26.1	26.6	27.1	27.5	27.9	28.3	28.7	29.0	29.3	29.6	29.9	30.2	30.4	30.7	30.9
32.0	21.6	22.8	23.8	24.6	25.3	25.9	26.5	27.0	27.5	28.0	28.4	28.8	29.1	29.5	29.8	30.1	30.4	30.7	30.9	31.2	31.4
32.5	21.9	23.1	24.1	24.9	25.7	26.3	26.9	27.5	27.9	28.4	28.8	29.2	29.6	29.9	30.2	30.6	30.9	31.1	31.4	31.7	31.9
33.0	22.3	23.5	24.5	25.3	26.1	26.7	27.3	27.9	28.4	28.8	29.2	29.6	30.0	30.4	30.7	31.0	31.3	31.6	31.9	32.1	32.4
33.5	22.6	23.8	24.8	25.7	26.4	27.1	27.7	28.3	28.8	29.2	29.7	30.1	30.5	30.8	31.2	31.5	31.8	32.1	32.4	32.6	32.9
34.0	22.9	24.1	25.2	26.1	26.8	27.5	28.1	28.7	29.2	29.7	30.1	30.5	30.9	31.3	31.6	31.9	32.3	32.6	32.8	33.1	33.4
34.5	23.2	24.5	25.5	26.4	27.2	27.9	28.5	29.1	29.6	30.1	30.5	31.0	31.4	31.7	32.1	32.4	32.7	33.0	33.3	33.6	33.9
35.0	23.5	24.8	25.9	26.8	27.6	28.3	28.9	29.5	30.0	30.5	31.0	31.4	31.8	32.2	32.5	32.9	33.2	33.5	33.8	34.1	34.4
35.5	23.9	25.1	26.2	27.2	28.0	28.7	29.3	29.9	30.5	30.9	31.4	31.8	32.2	32.6	33.0	33.3	33.7	34.0	34.3	34.6	34.8
36.0	24.2	25.5	26.6	27.5	28.3	29.1	29.7	30.3	30.9	31.4	31.8	32.3	32.7	33.1	33.5	33.8	34.1	34.5	34.8	35.1	35.3
36.5	24.5	25.8	26.9	27.9	28.7	29.5	30.1	30.7	31.3	31.8	32.3	32.7	33.1	33.5	33.9	34.3	34.6	34.9	35.2	35.5	35.8
37.0	24.8	26.2	27.3	28.2	29.1	29.8	30.5	31.1	31.7	32.2	32.7	33.2	33.6	34.0	34.4	34.7	35.1	35.4	35.7	36.0	36.3
37.5	25.1	26.5	27.6	28.6	29.5	30.2	30.9	31.5	32.1	32.6	33.1	33.6	34.0	34.4	34.8	35.2	35.5	35.9	36.2	36.5	36.8
38.0	25.4	26.8	28.0	29.0	29.8	30.6	31.3	31.9	32.5	33.1	33.6	34.0	34.5	34.9	35.3	35.7	36.0	36.4	36.7	37.0	37.3
38.5	25.7	27.2	28.3	29.3	30.2	31.0	31.7	32.4	32.9	33.5	34.0	34.5	34.9	35.3	35.7	36.1	36.5	36.8	37.2	37.5	37.8
39.0	26.1	27.5	28.7	29.7	30.6	31.4	32.1	32.8	33.4	33.9	34.4	34.9	35.4	35.8	36.2	36.6	36.9	37.3	37.6	38.0	38.3
39.5	26.4	27.8	29.0	30.1	31.0	31.8	32.5	33.2	33.8	34.3	34.9	35.3	35.8	36.2	36.6	37.0	37.4	37.8	38.1	38.4	38.8
40.0	26.7	28.2	29.4	30.4	31.3	32.2	32.9	33.6	34.2	34.8	35.3	35.8	36.2	36.7	37.1	37.5	37.9	38.2	38.6	38.9	39.2
40.5	27.0	28.5	29.7	30.8	31.7	32.6	33.3	34.0	34.6	35.2	35.7	36.2	36.7	37.1	37.6	38.0	38.3	38.7	39.1	39.4	39.7
41.0	27.3	28.8	30.1	31.2	32.1	32.9	33.7	34.4	35.0	35.6	36.1	36.7	37.1	37.6	38.0	38.4	38.8	39.2	39.5	39.9	40.2
41.5	27.6	29.1	30.4	31.5	32.5	33.3	34.1	34.8	35.4	36.0	36.6	37.1	37.6	38.0	38.5	38.9	39.3	39.7	40.0	40.4	40.7
42.0	27.9	29.5	30.8	31.9	32.8	33.7	34.5	35.2	35.8	36.4	37.0	37.5	38.0	38.5	38.9	39.3	39.7	40.1	40.5	40.9	41.2
42.5	28.2	29.8	31.1	32.2	33.2	34.1	34.9	35.6	36.3	36.9	37.4	38.0	38.5	38.9	39.4	39.8	40.2	40.6	41.0	41.3	41.7
43.0	28.6	30.1	31.5	32.6	33.6	34.5	35.3	36.0	36.7	37.3	37.9	38.4	38.9	39.4	39.8	40.3	40.7	41.1	41.5	41.8	42.2
43.5	28.9	30.5	31.8	33.0	34.0	34.9	35.7	36.4	37.1	37.7	38.3	38.8	39.3	39.8	40.3	40.7	41.1	41.5	41.9	42.3	42.7
44.0	29.2	30.8	32.1	33.3	34.3	35.2	36.1	36.8	37.5	38.1	38.7	39.3	39.8	40.3	40.7	41.2	41.6	42.0	42.4	42.8	43.1
44.5	29.5	31.1	32.5	33.7	34.7	35.6	36.4	37.2	37.9	38.5	39.1	39.7	40.2	40.7	41.2	41.7	42.1	42.5	42.9	43.3	43.6
45.0	29.8	31.4	32.8	34.0	35.1	36.0	36.8	37.6	38.3	39.0	39.6	40.1	40.7	41.2	41.7	42.1	42.5	43.0	43.4	43.8	44.1
45.5	30.1	31.8	33.2	34.4	35.4	36.4	37.2	38.0	38.7	39.4	40.0	40.6	41.1	41.6	42.1	42.6	43.0	43.4	43.8	44.2	44.6
46.0	30.4	32.1	33.5	34.7	35.8	36.8	37.6	38.4	39.1	39.8	40.4	41.0	41.5	42.1	42.6	43.0	43.5	43.9	44.3	44.7	45.1
46.5	30.7	32.4	33.9	35.1	36.2	37.1	38.0	38.8	39.5	40.2	40.8	41.4	42.0	42.5	43.0	43.5	43.9	44.4	44.8	45.2	45.6
47.0	31.0	32.7	34.2	35.5	36.5	37.5	38.4	39.2	39.9	40.6	41.3	41.9	42.4	43.0	43.5	43.9	44.4	44.8	45.3	45.7	46.1
47.5	31.3	33.1	34.5	35.8	36.9	37.9	38.8	39.6	40.4	41.0	41.7	42.3	42.9	43.4	43.9	44.4	44.9	45.3	45.7	46.2	46.6
48.0	31.6	33.4	34.9	36.2	37.3	38.3	39.2	40.0	40.8	41.5	42.1	42.7	43.3	43.9	44.4	44.9	45.3	45.8	46.2	46.6	47.0
48.5	31.9	33.7	35.2	36.5	37.6	38.7	39.6	40.4	41.2	41.9	42.5	43.2	43.7	44.3	44.8	45.3	45.8	46.3	46.7	47.1	47.5
49.0	32.2	34.0	35.6	36.9	38.0	39.0	40.0	40.8	41.6	42.3	43.0	43.6	44.2	44.7	45.3	45.8	46.3	46.7	47.2	47.6	48.0
49.5	32.5	34.4	35.9	37.2	38.4	39.4	40.3	41.2	42.0	42.7	43.4	44.0	44.6	45.2	45.7	46.2	46.7	47.2	47.7	48.1	48.5
50.0	32.8	34.7	36.2	37.6	38.7	39.8	40.7	41.6	42.4	43.1	43.8	44.5	45.1	45.6	46.2	46.7	47.2	47.7	48.1	48.6	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR LOWLAND BLACKGUM

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.3	3.4	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.9
5.5	3.6	3.8	3.9	4.0	4.1	4.3	4.4	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.4
6.0	3.9	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.7	5.7	5.8	5.8
6.5	4.2	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.3	6.3
7.0	4.5	4.7	4.9	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.1	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.7	6.8
7.5	4.8	5.1	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3
8.0	5.1	5.4	5.6	5.8	5.9	6.1	6.2	6.4	6.5	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8
8.5	5.4	5.7	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2	8.3
9.0	5.7	6.0	6.2	6.4	6.6	6.8	7.0	7.1	7.3	7.5	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.6	8.7	8.8
9.5	6.0	6.3	6.5	6.8	7.0	7.2	7.4	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.5	8.7	8.8	8.9	9.0	9.1	9.2
10.0	6.3	6.6	6.9	7.1	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.6	8.7	8.8	9.0	9.1	9.2	9.4	9.5	9.6	9.7
10.5	6.6	6.9	7.2	7.4	7.7	7.9	8.1	8.3	8.5	8.6	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.8	10.0	10.1	10.2
11.0	6.9	7.2	7.5	7.7	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.5	9.7	9.9	10.0	10.1	10.3	10.4	10.6	10.7
11.5	7.2	7.5	7.8	8.1	8.3	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	11.0	11.2
12.0	7.4	7.8	8.1	8.4	8.7	8.9	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.7	10.9	11.0	11.2	11.4	11.5	11.7
12.5	7.7	8.1	8.4	8.7	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.3	11.5	11.7	11.8	12.0	12.1
13.0	8.0	8.4	8.7	9.0	9.3	9.6	9.9	10.1	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8	11.9	12.1	12.3	12.5	12.6
13.5	8.2	8.6	9.0	9.3	9.7	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.6	12.8	12.9	13.1
14.0	8.5	8.9	9.3	9.7	10.0	10.3	10.6	10.8	11.1	11.3	11.6	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6
14.5	8.8	9.2	9.6	10.0	10.3	10.6	10.9	11.2	11.5	11.7	12.0	12.2	12.4	12.7	12.9	13.1	13.3	13.5	13.7	13.9	14.1
15.0	9.0	9.5	9.9	10.3	10.6	10.9	11.3	11.6	11.8	12.1	12.4	12.6	12.8	13.1	13.3	13.5	13.7	13.9	14.1	14.3	14.5
15.5	9.3	9.7	10.2	10.6	10.9	11.3	11.6	11.9	12.2	12.5	12.7	13.0	13.3	13.5	13.7	14.0	14.2	14.4	14.6	14.8	15.0
16.0	9.5	10.0	10.5	10.9	11.2	11.6	11.9	12.3	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.4	14.6	14.8	15.1	15.3	15.5
16.5	9.8	10.3	10.7	11.2	11.6	11.9	12.3	12.6	12.9	13.2	13.5	13.8	14.1	14.3	14.6	14.8	15.1	15.3	15.5	15.8	16.0
17.0	10.0	10.5	11.0	11.5	11.9	12.2	12.6	13.0	13.3	13.6	13.9	14.2	14.5	14.7	15.0	15.3	15.5	15.8	16.0	16.2	16.5
17.5	10.3	10.8	11.3	11.8	12.2	12.6	12.9	13.3	13.6	14.0	14.3	14.6	14.9	15.2	15.4	15.7	16.0	16.2	16.5	16.7	16.9
18.0	10.5	11.1	11.6	12.0	12.5	12.9	13.3	13.6	14.0	14.3	14.7	15.0	15.3	15.6	15.8	16.1	16.4	16.7	16.9	17.2	17.4
18.5	10.7	11.3	11.8	12.3	12.8	13.2	13.6	14.0	14.3	14.7	15.0	15.4	15.7	16.0	16.3	16.6	16.8	17.1	17.4	17.6	17.9
19.0	11.0	11.6	12.1	12.6	13.1	13.5	13.9	14.3	14.7	15.1	15.4	15.7	16.1	16.4	16.7	17.0	17.3	17.6	17.8	18.1	18.4
19.5	11.2	11.8	12.4	12.9	13.4	13.8	14.3	14.7	15.0	15.4	15.8	16.1	16.5	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.8
20.0	11.4	12.1	12.6	13.2	13.7	14.1	14.6	15.0	15.4	15.8	16.2	16.5	16.9	17.2	17.5	17.8	18.1	18.4	18.7	19.0	19.3
20.5	11.7	12.3	12.9	13.5	14.0	14.4	14.9	15.3	15.7	16.1	16.5	16.9	17.2	17.6	17.9	18.3	18.6	18.9	19.2	19.5	19.8
21.0	11.9	12.6	13.2	13.7	14.3	14.7	15.2	15.7	16.1	16.5	16.9	17.3	17.6	18.0	18.3	18.7	19.0	19.3	19.7	20.0	20.3
21.5	12.1	12.8	13.4	14.0	14.5	15.0	15.5	16.0	16.4	16.9	17.3	17.7	18.0	18.4	18.8	19.1	19.5	19.8	20.1	20.4	20.7
22.0	12.3	13.0	13.7	14.3	14.8	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.5	19.9	20.2	20.6	20.9	21.2
22.5	12.5	13.3	13.9	14.5	15.1	15.6	16.2	16.6	17.1	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.3	20.7	21.0	21.4	21.7
23.0	12.8	13.5	14.2	14.8	15.4	15.9	16.5	17.0	17.4	17.9	18.4	18.8	19.2	19.6	20.0	20.4	20.7	21.1	21.5	21.8	22.2
23.5	13.0	13.7	14.4	15.1	15.7	16.2	16.8	17.3	17.8	18.3	18.7	19.2	19.6	20.0	20.4	20.8	21.2	21.6	21.9	22.3	22.6
24.0	13.2	14.0	14.7	15.3	15.9	16.5	17.1	17.6	18.1	18.6	19.1	19.5	20.0	20.4	20.8	21.2	21.6	22.0	22.4	22.8	23.1
24.5	13.4	14.2	14.9	15.6	16.2	16.8	17.4	17.9	18.4	18.9	19.4	19.9	20.3	20.8	21.2	21.6	22.0	22.4	22.8	23.2	23.6
25.0	13.6	14.4	15.1	15.8	16.5	17.1	17.7	18.2	18.8	19.3	19.8	20.3	20.7	21.2	21.6	22.0	22.5	22.9	23.3	23.7	24.1
25.5	13.8	14.6	15.4	16.1	16.8	17.4	18.0	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.0	22.5	22.9	23.3	23.7	24.1	24.5
26.0	14.0	14.8	15.6	16.3	17.0	17.7	18.3	18.9	19.4	20.0	20.5	21.0	21.5	22.0	22.4	22.9	23.3	23.8	24.2	24.6	25.0
26.5	14.2	15.0	15.8	16.6	17.3	17.9	18.6	19.2	19.8	20.3	20.8	21.4	21.9	22.4	22.8	23.3	23.7	24.2	24.6	25.1	25.5
27.0	14.3	15.2	16.1	16.8	17.5	18.2	18.9	19.5	20.1	20.6	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.6	25.1	25.5	26.0
27.5	14.5	15.4	16.3	17.1	17.8	18.5	19.2	19.8	20.4	21.0	21.5	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.5	26.0	26.4
28.0	14.7	15.6	16.5	17.3	18.1	18.8	19.4	20.1	20.7	21.3	21.9	22.4	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.4	26.9
28.5	14.9	15.8	16.7	17.5	18.3	19.0	19.7	20.4	21.0	21.6	22.2	22.8	23.4	23.9	24.4	24.9	25.4	25.9	26.4	26.9	27.4
29.0	15.1	16.0	16.9	17.8	18.6	19.3	20.0	20.7	21.3	22.0	22.6	23.2	23.7	24.3	24.8	25.4	25.9	26.4	26.9	27.4	27.8
29.5	15.2	16.2	17.2	18.0	18.8	19.6	20.3	21.0	21.7	22.3	22.9	23.5	24.1	24.7	25.2	25.8	26.3	26.8	27.3	27.8	28.3
30.0	15.4	16.4	17.4	18.2	19.1	19.8	20.6	21.3	22.0	22.6	23.3	23.9	24.5	25.0	25.6	26.2	26.7	27.2	27.8	28.3	28.8
30.5	15.6	16.6	17.6	18.5	19.3	20.1	20.9	21.6	22.3	22.9	23.6	24.2	24.8	25.4	26.0	26.6	27.1	27.7	28.2	28.7	29.2
31.0	15.7	16.8	17.8	18.7	19.5	20.4	21.1	21.9	22.6	23.3	23.9	24.6	25.2	25.8	26.4	27.0	27.5	28.1	28.7	29.2	29.7
31.5	15.9	17.0	18.0	18.9	19.8	20.6	21.4	22.2	22.9	23.6	24.3	24.9	25.6	26.2	26.8	27.4	28.0	28.5	29.1	29.6	30.2
32.0	16.1	17.2	18.2	19.1	20.0	20.9	21.7	22.4	23.2	23.9	24.6	25.3	25.9	26.6	27.2	27.8	28.4	29.0	29.5	30.1	30.7
32.5	16.2	17.3	18.4	19.3	20.3	21.1	21.9	22.7	23.5	24.2	24.9	25.6	26.3	26.9	27.6	28.2	28.8	29.4	30.0	30.6	31.1
33.0	16.4	17.5	18.6	19.6	20.5	21.4	22.2	23.0	23.8	24.5	25.3	26.0	26.6	27.3	28.0	28.6	29.2	29.8	30.4	31.0	31.6
33.5	16.5	17.7	18.8	19.8	20.7	21.6	22.5	23.3	24.1	24.8	25.6	26.3	27.0	27.7	28.3	29.0	29.6	30.3	30.9	31.5	32.1
34.0	16.7	17.9	19.0	20.0	20.9	21.9	22.7	23.6	24.4	25.2	25.9	26.6	27.4	28.0	28.7	29.4	30.0	30.7	31.3	31.9	32.5
34.5	16.8	18.0	19.1	20.2	21.2	22.1	23.0	23.8	24.7	25.5	26.2	27.0	27.7	28.4	29.1	29.8	30.5	31.1	31.7	32.4	33.0
35.0	17.0	18.2	19.3	20.4	21.4	22.3	23.3	24.1	25.0	25.8	26.6	27.3	28.1	28.8	29.5	30.2	30.9	31.5	32.2	32.8	33.5
35.5	17.1	18.3	19.5	20.6	21.6	22.6	23.5	24.4	25.3	26.1	26.9	27.7	28.4	29.2	29.9	30.6	31.3	32.0	32.6	33.3	33.9
36.0	17.2	18.5	19.7	20.8	21.8	22.8	23.8	24.7	25.5	26.4	27.2	28.0	28.8	29.5	30.3	31.0	31.7	32.4	33.1	33.7	34.4
36.5	17.4	18.7	19.9	21.0	22.0	23.1	24.0	24.9	25.8	26.7	27.5	28.3	29.1	29.9	30.6	31.4	32.1	32.8	33.5	34.2	34.9
37.0	17.5	18.8	20.0	21.2	22.3	23.3	24.3	25.2	26.1	27.0	27.8	28.7	29.5	30.2	31.0	31.8	32.5	33.2	33.9	34.6	35.3
37.5	17.6	19.0	20.2	21.4	22.5	23.5	24.5	25.5	26.4	27.3	28.1	29.0	29.8	30.6	31.4	32.2	32.9	33.6	34.4	35.1	35.8
38.0	17.7	19.1	20.4	21.6	22.7	23.7	24.8	25.7	26.7	27.6	28.5	29.3	30.2	31.0	31.8	32.6	33.3	34.1	34.8	35.5	36.3
38.5	17.9	19.3	20.5	21.7	22.9	24.0	25.0	26.0	27.0	27.9	28.8	29.6	30.5	31.3	32.1	32.9	33.7	34.5	35.2	36.0	36.7
39.0	18.0	19.4	20.7	21.9	23.1	24.2	25.2	26.3	27.2	28.2	29.1	30.0	30.8	31.7	32.5	33.3	34.1	34.9	35.7	36.4	37.2
39.5	18.1	19.5	20.9	22.1	23.3	24.4	25.5	26.5	27.5	28.5	29.4	30.3	31.2	32.0	32.9	33.7	34.5	35.3	36.1	36.9	37.6
40.0	18.2	19.7	21.0	22.3	23.5	24.6	25.7	26.8	27.8	28.8	29.7	30.6	31.5	32.4	33.3	34.1	34.9	35.7	36.5	37.3	38.1
40.5	18.3	19.8	21.2	22.5	23.7	24.8	26.0	27.0	28.0	29.0	30.0	30.9	31.9	32.8	33.6	34.5	35.3	36.2	37.0	37.8	38.6
41.0	18.4	19.9	21.3	22.6	23.9	25.1	26.2	27.3	28.3	29.3	30.3	31.3	32.2	33.1	34.0	34.9	35.7	36.6	37.4	38.2	39.0
41.5	18.5	20.1	21.5	22.8	24.1	25.3	26.4	27.5	28.6	29.6	30.6	31.6	32.5	33.5	34.4	35.3	36.1	37.0	37.8	38.7	39.5
42.0	18.6	20.2	21.6	23.0	24.3	25.5	26.6	27.8	28.8	29.9	30.9	31.9	32.9	33.8	34.7	35.6	36.5	37.4	38.3	39.1	40.0
42.5	18.7	20.3	21.8	23.1	24.4	25.7	26.9	28.0	29.1	30.2	31.2	32.2	33.2	34.2	35.1	36.0	36.9	37.8	38.7	39.6	40.4
43.0	18.8	20.4	21.9	23.3	24.6	25.9	27.1	28.3	29.4	30.5	31.5	32.5	33.5	34.5	35.5	36.4	37.3	38.2	39.1	40.0	40.9
43.5	18.9	20.5	22.0	23.5	24.8	26.1	27.3	28.5	29.6	30.7	31.8	32.8	33.9	34.9	35.8	36.8	37.7	38.7	39.6	40.5	41.3
44.0	19.0	20.6	22.2	23.6	25.0	26.3	27.5	28.7	29.9	31.0	32.1	33.2	34.2	35.2	36.2	37.2	38.1	39.1	40.0	40.9	41.8
44.5	19.1	20.8	22.3	23.8	25.2	26.5	27.7	29.0	30.1	31.3	32.4	33.5	34.5	35.6	36.6	37.6	38.5	39.5	40.4	41.4	42.3
45.0	19.2	20.9	22.4	23.9	25.3	26.7	28.0	29.2	30.4	31.6	32.7	33.8	34.8	35.9	36.9	37.9	38.9	39.9	40.9	41.8	42.7
45.5	19.2	21.0	22.6	24.1	25.5	26.9	28.2	29.4	30.6	31.8	33.0	34.1	35.2	36.2	37.3	38.3	39.3	40.3	41.3	42.2	43.2
46.0	19.3	21.1	22.7	24.2	25.7	27.1	28.4	29.7	30.9	32.1	33.3	34.4	35.5	36.6	37.6	38.7	39.7	40.7	41.7	42.7	43.6
46.5	19.4	21.2	22.8	24.4	25.8	27.3	28.6	29.9	31.1	32.4	33.5	34.7	35.8	36.9	38.0	39.1	40.1	41.1	42.1	43.1	44.1
47.0	19.5	21.3	22.9	24.5	26.0	27.4	28.8	30.1	31.4	32.6	33.8	35.0	36.1	37.3	38.4	39.4	40.5	41.5	42.6	43.6	44.6
47.5	19.5	21.4	23.1	24.7	26.2	27.6	29.0	30.3	31.6	32.9	34.1	35.3	36.5	37.6	38.7	39.8	40.9	41.9	43.0	44.0	45.0
48.0	19.6	21.5	23.2	24.8	26.3	27.8	29.2	30.6	31.9	33.2	34.4	35.6	36.8	37.9	39.1	40.2	41.3	42.3	43.4	44.5	45.5
48.5	19.7	21.5	23.3	24.9	26.5	28.0	29.4	30.8	32.1	33.4	34.7	35.9	37.1	38.3	39.4	40.6	41.7	42.8	43.8	44.9	45.9
49.0	19.7	21.6	23.4	25.1	26.6	28.2	29.6	31.0	32.4	33.7	34.9	36.2	37.4	38.6	39.8	40.9	42.0	43.2	44.3	45.3	46.4
49.5	19.8	21.7	23.5	25.2	26.8	28.3	29.8	31.2	32.6	33.9	35.2	36.5	37.7	38.9	40.1	41.3	42.4	43.6	44.7	45.8	46.9
50.0	19.8	21.8	23.6	25.3	27.0	28.5	30.0	31.4	32.8	34.2	35.5	36.8	38.0	39.3	40.5	41.7	42.8	44.0	45.1	46.2	47.3

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SYCAMORE

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.6	3.7	3.9	4.0	4.1	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9
5.5	3.8	4.0	4.1	4.2	4.4	4.5	4.6	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4
6.0	4.1	4.3	4.5	4.6	4.7	4.9	5.0	5.1	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9
6.5	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.4
7.0	4.8	5.0	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.6	6.6	6.7	6.8	6.8	6.9
7.5	5.1	5.4	5.6	5.8	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.4
8.0	5.5	5.7	6.0	6.1	6.3	6.5	6.6	6.7	6.8	7.0	7.1	7.2	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.8	7.8
8.5	5.8	6.1	6.3	6.5	6.7	6.9	7.0	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.3	8.3
9.0	6.2	6.4	6.7	6.9	7.1	7.3	7.4	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.8
9.5	6.5	6.8	7.1	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.2	9.3
10.0	6.8	7.1	7.4	7.7	7.9	8.1	8.2	8.4	8.5	8.7	8.8	8.9	9.0	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8
10.5	7.2	7.5	7.8	8.0	8.3	8.5	8.6	8.8	9.0	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3
11.0	7.5	7.8	8.1	8.4	8.6	8.8	9.0	9.2	9.4	9.5	9.7	9.8	9.9	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8
11.5	7.8	8.2	8.5	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.1	10.3	10.4	10.5	10.6	10.8	10.9	11.0	11.1	11.2	11.3
12.0	8.2	8.5	8.9	9.2	9.4	9.6	9.9	10.0	10.2	10.4	10.6	10.7	10.8	11.0	11.1	11.2	11.3	11.5	11.6	11.7	11.8
12.5	8.5	8.9	9.2	9.5	9.8	10.0	10.3	10.5	10.6	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.3
13.0	8.8	9.2	9.6	9.9	10.2	10.4	10.7	10.9	11.1	11.2	11.4	11.6	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.7
13.5	9.1	9.6	9.9	10.3	10.6	10.8	11.1	11.3	11.5	11.7	11.9	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.0	13.1	13.2
14.0	9.5	9.9	10.3	10.6	10.9	11.2	11.5	11.7	11.9	12.1	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	13.5	13.6	13.7
14.5	9.8	10.3	10.7	11.0	11.3	11.6	11.9	12.1	12.3	12.5	12.7	12.9	13.1	13.2	13.4	13.5	13.7	13.8	14.0	14.1	14.2
15.0	10.1	10.6	11.0	11.4	11.7	12.0	12.3	12.5	12.7	13.0	13.2	13.3	13.5	13.7	13.9	14.0	14.2	14.3	14.4	14.6	14.7
15.5	10.5	11.0	11.4	11.8	12.1	12.4	12.7	12.9	13.2	13.4	13.6	13.8	14.0	14.1	14.3	14.5	14.6	14.8	14.9	15.1	15.2
16.0	10.8	11.3	11.7	12.1	12.5	12.8	13.1	13.3	13.6	13.8	14.0	14.2	14.4	14.6	14.8	14.9	15.1	15.2	15.4	15.5	15.7
16.5	11.1	11.6	12.1	12.5	12.8	13.2	13.5	13.7	14.0	14.2	14.5	14.7	14.9	15.0	15.2	15.4	15.6	15.7	15.9	16.0	16.2
17.0	11.4	12.0	12.4	12.9	13.2	13.6	13.9	14.1	14.4	14.7	14.9	15.1	15.3	15.5	15.7	15.9	16.0	16.2	16.4	16.5	16.7
17.5	11.8	12.3	12.8	13.2	13.6	14.0	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.9	16.1	16.3	16.5	16.7	16.8	17.0	17.1
18.0	12.1	12.7	13.2	13.6	14.0	14.3	14.7	15.0	15.2	15.5	15.7	16.0	16.2	16.4	16.6	16.8	17.0	17.1	17.3	17.5	17.6
18.5	12.4	13.0	13.5	14.0	14.4	14.7	15.1	15.4	15.7	15.9	16.2	16.4	16.6	16.8	17.1	17.2	17.4	17.6	17.8	18.0	18.1
19.0	12.7	13.3	13.9	14.3	14.7	15.1	15.5	15.8	16.1	16.3	16.6	16.8	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.4	18.6
19.5	13.0	13.7	14.2	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	17.5	17.7	18.0	18.2	18.4	18.6	18.7	18.9	19.1
20.0	13.4	14.0	14.6	15.1	15.5	15.9	16.2	16.6	16.9	17.2	17.5	17.7	18.0	18.2	18.4	18.6	18.8	19.0	19.2	19.4	19.6
20.5	13.7	14.3	14.9	15.4	15.9	16.3	16.6	17.0	17.3	17.6	17.9	18.2	18.4	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.1
21.0	14.0	14.7	15.3	15.8	16.2	16.7	17.0	17.4	17.7	18.0	18.3	18.6	18.8	19.1	19.3	19.6	19.8	20.0	20.2	20.4	20.6
21.5	14.3	15.0	15.6	16.1	16.6	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.3	19.5	19.8	20.0	20.2	20.4	20.7	20.9	21.0
22.0	14.6	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.5	18.9	19.2	19.5	19.7	20.0	20.2	20.5	20.7	20.9	21.1	21.3	21.5
22.5	15.0	15.7	16.3	16.9	17.4	17.8	18.2	18.6	19.0	19.3	19.6	19.9	20.2	20.4	20.7	20.9	21.2	21.4	21.6	21.8	22.0
23.0	15.3	16.0	16.7	17.2	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.6	20.9	21.1	21.4	21.6	21.9	22.1	22.3	22.5
23.5	15.6	16.4	17.0	17.6	18.1	18.6	19.0	19.4	19.8	20.1	20.4	20.8	21.1	21.3	21.6	21.9	22.1	22.3	22.6	22.8	23.0
24.0	15.9	16.7	17.4	17.9	18.5	19.0	19.4	19.8	20.2	20.5	20.9	21.2	21.5	21.8	22.1	22.3	22.6	22.8	23.0	23.3	23.5
24.5	16.2	17.0	17.7	18.3	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.6	21.9	22.2	22.5	22.8	23.0	23.3	23.5	23.7	24.0
25.0	16.5	17.3	18.0	18.7	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.1	22.4	22.7	23.0	23.2	23.5	23.7	24.0	24.2	24.5
25.5	16.8	17.7	18.4	19.0	19.6	20.1	20.6	21.0	21.4	21.8	22.1	22.5	22.8	23.1	23.4	23.7	24.0	24.2	24.5	24.7	24.9
26.0	17.2	18.0	18.7	19.4	20.0	20.5	21.0	21.4	21.8	22.2	22.6	22.9	23.2	23.6	23.9	24.1	24.4	24.7	24.9	25.2	25.4
26.5	17.5	18.3	19.1	19.7	20.3	20.9	21.3	21.8	22.2	22.6	23.0	23.3	23.7	24.0	24.3	24.6	24.9	25.2	25.4	25.7	25.9
27.0	17.8	18.7	19.4	20.1	20.7	21.2	21.7	22.2	22.6	23.0	23.4	23.8	24.1	24.5	24.8	25.1	25.4	25.6	25.9	26.2	26.4
27.5	18.1	19.0	19.8	20.4	21.1	21.6	22.1	22.6	23.0	23.5	23.8	24.2	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.6	26.9
28.0	18.4	19.3	20.1	20.8	21.4	22.0	22.5	23.0	23.4	23.9	24.3	24.6	25.0	25.3	25.7	26.0	26.3	26.6	26.8	27.1	27.4
28.5	18.7	19.6	20.4	21.2	21.8	22.4	22.9	23.4	23.8	24.3	24.7	25.1	25.4	25.8	26.1	26.4	26.7	27.0	27.3	27.6	27.9
29.0	19.0	20.0	20.8	21.5	22.2	22.7	23.3	23.8	24.3	24.7	25.1	25.5	25.9	26.2	26.6	26.9	27.2	27.5	27.8	28.1	28.4
29.5	19.3	20.3	21.1	21.9	22.5	23.1	23.7	24.2	24.7	25.1	25.5	25.9	26.3	26.7	27.0	27.3	27.7	28.0	28.3	28.6	28.8
30.0	19.6	20.6	21.5	22.2	22.9	23.5	24.1	24.6	25.1	25.5	25.9	26.4	26.7	27.1	27.5	27.8	28.1	28.4	28.7	29.0	29.3
30.5	19.9	20.9	21.8	22.6	23.2	23.9	24.4	25.0	25.5	25.9	26.4	26.8	27.2	27.6	27.9	28.3	28.6	28.9	29.2	29.5	29.8
31.0	20.2	21.2	22.1	22.9	23.6	24.2	24.8	25.4	25.9	26.3	26.8	27.2	27.6	28.0	28.4	28.7	29.1	29.4	29.7	30.0	30.3
31.5	20.5	21.6	22.5	23.3	24.0	24.6	25.2	25.8	26.3	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.5	29.8	30.2	30.5	30.8
32.0	20.8	21.9	22.8	23.6	24.3	25.0	25.6	26.2	26.7	27.2	27.6	28.1	28.5	28.9	29.3	29.6	30.0	30.3	30.6	31.0	31.3
32.5	21.1	22.2	23.1	24.0	24.7	25.4	26.0	26.5	27.1	27.6	28.0	28.5	28.9	29.3	29.7	30.1	30.4	30.8	31.1	31.4	31.8
33.0	21.4	22.5	23.5	24.3	25.1	25.7	26.4	26.9	27.5	28.0	28.5	28.9	29.4	29.8	30.2	30.5	30.9	31.3	31.6	31.9	32.2
33.5	21.7	22.8	23.8	24.7	25.4	26.1	26.7	27.3	27.9	28.4	28.9	29.3	29.8	30.2	30.6	31.0	31.4	31.7	32.1	32.4	32.7
34.0	22.0	23.2	24.1	25.0	25.8	26.5	27.1	27.7	28.3	28.8	29.3	29.8	30.2	30.6	31.1	31.4	31.8	32.2	32.5	32.9	33.2
34.5	22.3	23.5	24.5	25.3	26.1	26.8	27.5	28.1	28.7	29.2	29.7	30.2	30.7	31.1	31.5	31.9	32.3	32.7	33.0	33.4	33.7
35.0	22.6	23.8	24.8	25.7	26.5	27.2	27.9	28.5	29.1	29.6	30.1	30.6	31.1	31.5	31.9	32.4	32.7	33.1	33.5	33.8	34.2
35.5	22.9	24.1	25.1	26.0	26.8	27.6	28.3	28.9	29.5	30.0	30.6	31.0	31.5	32.0	32.4	32.8	33.2	33.6	34.0	34.3	34.7
36.0	23.2	24.4	25.5	26.4	27.2	28.0	28.6	29.3	29.9	30.4	31.0	31.5	31.9	32.4	32.8	33.3	33.7	34.1	34.5	34.9	35.2
36.5	23.5	24.7	25.8	26.7	27.6	28.3	29.0	29.7	30.3	30.8	31.4	31.9	32.4	32.8	33.3	33.7	34.1	34.4	34.8	35.2	
37.0	23.8	25.1	26.1	27.1	27.9	28.7	29.4	30.1	30.7	31.2	31.8	32.3	32.8	33.3	33.7	34.2	34.6	35.0	35.4	35.8	36.1
37.5	24.1	25.4	26.5	27.4	28.3	29.1	29.8	30.4	31.1	31.7	32.2	32.7	33.2	33.7	34.2	34.6	35.1	35.5	35.9	36.3	36.7
38.0	24.4	25.7	26.8	27.8	28.6	29.4	30.2	30.8	31.5	32.1	32.6	33.2	33.7	34.2	34.6	35.1	35.5	35.9	36.2	36.6	
38.5	24.7	26.0	27.1	28.1	29.0	29.8	30.5	31.2	31.9	32.5	33.0	33.6	34.1	34.6	35.1	35.5	36.0	36.4	36.8	37.2	37.6
39.0	25.0	26.3	27.4	28.4	29.3	30.1	30.9	31.6	32.3	32.9	33.5	34.0	34.5	35.0	35.5	36.0	36.4	36.9	37.3	37.7	38.1
39.5	25.3	26.6	27.8	28.8	29.7	30.5	31.3	32.0	32.7	33.3	33.9	34.4	35.0	35.5	36.0	36.4	36.9	37.3	37.7	38.2	38.6
40.0	25.6	26.9	28.1	29.1	30.0	30.9	31.7	32.4	33.0	33.7	34.3	34.8	35.4	35.9	36.4	36.9	37.3	37.8	38.2	38.6	39.0
40.5	25.9	27.2	28.4	29.4	30.4	31.2	32.0	32.8	33.4	34.1	34.7	35.3	35.8	36.3	36.8	37.3	37.8	38.2	38.7	39.1	39.5
41.0	26.2	27.5	28.7	29.8	30.7	31.6	32.4	33.1	33.8	34.5	35.1	35.7	36.2	36.8	37.3	37.8	38.3	38.7	39.2	39.6	40.0
41.5	26.4	27.8	29.1	30.1	31.1	32.0	32.8	33.5	34.2	34.9	35.5	36.1	36.7	37.2	37.7	38.2	38.7	39.2	39.6	40.1	40.5
42.0	26.7	28.2	29.4	30.5	31.4	32.3	33.1	33.9	34.6	35.3	35.9	36.5	37.1	37.7	38.2	38.7	39.2	39.6	40.1	40.5	41.0
42.5	27.0	28.5	29.7	30.8	31.8	32.7	33.5	34.3	35.0	35.7	36.3	36.9	37.5	38.1	38.6	39.1	39.6	40.1	40.6	41.0	41.5
43.0	27.3	28.8	30.0	31.1	32.1	33.0	33.9	34.7	35.4	36.1	36.7	37.4	38.0	38.5	39.1	39.6	40.1	40.6	41.0	41.5	41.9
43.5	27.6	29.1	30.3	31.5	32.5	33.4	34.3	35.1	35.8	36.5	37.2	37.8	38.4	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.4
44.0	27.9	29.4	30.7	31.8	32.8	33.8	34.6	35.4	36.2	36.9	37.6	38.2	38.8	39.4	39.9	40.5	41.0	41.5	42.0	42.5	42.9
44.5	28.2	29.7	31.0	32.1	33.2	34.1	35.0	35.8	36.6	37.3	38.0	38.6	39.2	39.8	40.4	40.9	41.5	42.0	42.5	42.9	43.4
45.0	28.5	30.0	31.3	32.5	33.5	34.5	35.4	36.2	37.0	37.7	38.4	39.0	39.7	40.3	40.8	41.4	41.9	42.4	42.9	43.4	43.9
45.5	28.7	30.3	31.6	32.8	33.9	34.8	35.7	36.6	37.4	38.1	38.8	39.5	40.1	40.7	41.3	41.8	42.4	42.9	43.4	43.9	44.4
46.0	29.0	30.6	31.9	33.1	34.2	35.2	36.1	37.0	37.7	38.5	39.2	39.9	40.5	41.1	41.7	42.3	42.8	43.4	43.9	44.4	44.8
46.5	29.3	30.9	32.3	33.5	34.6	35.6	36.5	37.3	38.1	38.9	39.6	40.3	40.9	41.6	42.2	42.7	43.3	43.8	44.3	44.8	45.3
47.0	29.6	31.2	32.6	33.8	34.9	35.9	36.8	37.7	38.5	39.3	40.0	40.7	41.4	42.0	42.6	43.2	43.7	44.3	44.8	45.3	45.8
47.5	29.9	31.5	32.9	34.1	35.2	36.3	37.2	38.1	38.9	39.7	40.4	41.1	41.8	42.4	43.0	43.6	44.2	44.7	45.3	45.8	46.3
48.0	30.1	31.8	33.2	34.5	35.6	36.6	37.6	38.5	39.3	40.1	40.8	41.5	42.2	42.9	43.5	44.1	44.6	45.2	45.7	46.3	46.8
48.5	30.4	32.1	33.5	34.8	35.9	37.0	37.9	38.8	39.7	40.5	41.2	41.9	42.6	43.3	43.9	44.5	45.1	45.7	46.2	46.7	47.3
49.0	30.7	32.4	33.8	35.1	36.3	37.3	38.3	39.2	40.1	40.9	41.6	42.4	43.1	43.7	44.4	45.0	45.6	46.1	46.7	47.2	47.7
49.5	31.0	32.7	34.1	35.4	36.6	37.7	38.7	39.6	40.5	41.3	42.0	42.8	43.5	44.1	44.8	45.4	46.0	46.6	47.2	47.7	48.2
50.0	31.3	33.0	34.4	35.8	37.0	38.0	39.0	40.0	40.8	41.7	42.4	43.2	43.9	44.6	45.2	45.9	46.5	47.1	47.6	48.2	48.7

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR COTTONWOOD

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.8	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.0
5.5	4.2	4.4	4.5	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.5
6.0	4.6	4.8	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9
6.5	5.0	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.4
7.0	5.4	5.6	5.8	5.9	6.1	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9
7.5	5.8	6.0	6.2	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.3	7.4	7.4	7.4
8.0	6.1	6.4	6.6	6.8	6.9	7.0	7.2	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.7	7.8	7.8	7.9	7.9	7.9
8.5	6.5	6.8	7.0	7.2	7.4	7.5	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4	8.4	8.4
9.0	6.9	7.2	7.4	7.6	7.8	7.9	8.0	8.2	8.2	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.8	8.9	8.9
9.5	7.3	7.6	7.8	8.0	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.1	9.2	9.2	9.3	9.3	9.4	9.4
10.0	7.7	8.0	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.3	9.3	9.4	9.5	9.6	9.6	9.7	9.7	9.8	9.8	9.9	9.9
10.5	8.1	8.4	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4	10.4
11.0	8.4	8.8	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.4	10.5	10.6	10.6	10.7	10.8	10.8	10.9	10.9
11.5	8.8	9.2	9.5	9.7	9.9	10.1	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.2	11.3	11.4	11.4
12.0	9.2	9.6	9.9	10.2	10.4	10.6	10.7	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.5	11.6	11.7	11.7	11.8	11.8	11.9
12.5	9.6	10.0	10.3	10.6	10.8	11.0	11.2	11.3	11.5	11.6	11.7	11.8	11.9	12.0	12.0	12.1	12.2	12.2	12.3	12.3	12.4
13.0	10.0	10.4	10.7	11.0	11.2	11.4	11.6	11.8	11.9	12.0	12.1	12.3	12.3	12.4	12.5	12.6	12.7	12.7	12.8	12.8	12.9
13.5	10.3	10.8	11.1	11.4	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.1	13.2	13.3	13.3	13.4
14.0	10.7	11.2	11.5	11.8	12.1	12.3	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.6	13.7	13.8	13.8	13.9
14.5	11.1	11.6	12.0	12.3	12.5	12.8	13.0	13.1	13.3	13.4	13.5	13.7	13.8	13.9	14.0	14.0	14.1	14.2	14.2	14.3	14.4
15.0	11.5	12.0	12.4	12.7	13.0	13.2	13.4	13.6	13.7	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.7	14.8	14.9
15.5	11.9	12.4	12.8	13.1	13.4	13.6	13.8	14.0	14.2	14.3	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.2	15.3	15.4
16.0	12.3	12.8	13.2	13.5	13.8	14.1	14.3	14.5	14.7	14.8	14.9	15.1	15.2	15.3	15.4	15.5	15.6	15.6	15.7	15.8	15.9
16.5	12.6	13.2	13.6	14.0	14.3	14.5	14.7	14.9	15.1	15.3	15.4	15.5	15.7	15.8	15.9	16.0	16.1	16.1	16.2	16.3	16.4
17.0	13.0	13.6	14.0	14.4	14.7	15.0	15.2	15.4	15.6	15.7	15.9	16.0	16.1	16.3	16.4	16.5	16.5	16.6	16.7	16.8	16.8
17.5	13.4	14.0	14.4	14.8	15.1	15.4	15.6	15.8	16.0	16.2	16.3	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.3
18.0	13.8	14.4	14.8	15.2	15.5	15.8	16.1	16.3	16.5	16.7	16.8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.8
18.5	14.2	14.8	15.2	15.6	16.0	16.3	16.5	16.7	16.9	17.1	17.3	17.4	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.3
19.0	14.5	15.2	15.7	16.1	16.4	16.7	17.0	17.2	17.4	17.6	17.7	17.9	18.0	18.2	18.3	18.4	18.5	18.6	18.7	18.7	18.8
19.5	14.9	15.6	16.1	16.5	16.8	17.1	17.4	17.6	17.9	18.0	18.2	18.4	18.5	18.6	18.8	18.9	19.0	19.1	19.2	19.2	19.3
20.0	15.3	16.0	16.5	16.9	17.3	17.6	17.9	18.1	18.3	18.5	18.7	18.8	19.0	19.1	19.2	19.4	19.5	19.6	19.6	19.7	19.8
20.5	15.7	16.4	16.9	17.3	17.7	18.0	18.3	18.6	18.8	19.0	19.1	19.3	19.5	19.6	19.7	19.8	19.9	20.0	20.1	20.2	20.3
21.0	16.1	16.8	17.3	17.8	18.1	18.5	18.7	19.0	19.2	19.4	19.6	19.8	19.9	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8
21.5	16.5	17.2	17.7	18.2	18.6	18.9	19.2	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.7	20.8	20.9	21.0	21.1	21.2	21.3
22.0	16.8	17.5	18.1	18.6	19.0	19.3	19.6	19.9	20.1	20.4	20.5	20.7	20.9	21.0	21.2	21.3	21.4	21.5	21.6	21.7	21.8
22.5	17.2	17.9	18.5	19.0	19.4	19.8	20.1	20.4	20.6	20.8	21.0	21.2	21.4	21.5	21.6	21.8	21.9	22.0	22.1	22.2	22.3
23.0	17.6	18.3	18.9	19.4	19.9	20.2	20.5	20.8	21.1	21.3	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.5	22.6	22.7	22.8
23.5	18.0	18.7	19.4	19.9	20.3	20.7	21.0	21.3	21.5	21.7	21.9	22.1	22.3	22.5	22.6	22.7	22.9	23.0	23.1	23.2	23.3
24.0	18.4	19.1	19.8	20.3	20.7	21.1	21.4	21.7	22.0	22.2	22.4	22.6	22.8	22.9	23.1	23.2	23.3	23.5	23.6	23.7	23.8
24.5	18.7	19.5	20.2	20.7	21.1	21.5	21.9	22.2	22.4	22.7	22.9	23.1	23.2	23.4	23.6	23.7	23.8	24.0	24.1	24.2	24.3
25.0	19.1	19.9	20.6	21.1	21.6	22.0	22.3	22.6	22.9	23.1	23.3	23.5	23.7	23.9	24.0	24.2	24.3	24.4	24.6	24.7	24.8
25.5	19.5	20.3	21.0	21.5	22.0	22.4	22.8	23.1	23.3	23.6	23.8	24.0	24.2	24.4	24.5	24.7	24.8	24.9	25.0	25.2	25.3
26.0	19.9	20.7	21.4	22.0	22.4	22.8	23.2	23.5	23.8	24.0	24.3	24.5	24.7	24.8	25.0	25.2	25.3	25.4	25.5	25.7	25.8
26.5	20.3	21.1	21.8	22.4	22.9	23.3	23.6	24.0	24.2	24.5	24.7	24.9	25.1	25.3	25.5	25.6	25.8	25.9	26.0	26.1	26.3
27.0	20.6	21.5	22.2	22.8	23.3	23.7	24.1	24.4	24.7	25.0	25.2	25.4	25.6	25.8	26.0	26.1	26.3	26.4	26.5	26.6	26.8
27.5	21.0	21.9	22.6	23.2	23.7	24.2	24.5	24.9	25.2	25.4	25.7	25.9	26.1	26.3	26.4	26.6	26.7	26.9	27.0	27.1	27.2
28.0	21.4	22.3	23.0	23.6	24.2	24.6	25.0	25.3	25.6	25.9	26.1	26.4	26.6	26.8	26.9	27.1	27.2	27.4	27.5	27.6	27.7
28.5	21.8	22.7	23.5	24.1	24.6	25.0	25.4	25.8	26.1	26.4	26.6	26.8	27.0	27.2	27.4	27.6	27.7	27.9	28.0	28.1	28.2
29.0	22.2	23.1	23.9	24.5	25.0	25.5	25.9	26.2	26.5	26.8	27.1	27.3	27.5	27.7	27.9	28.1	28.2	28.3	28.5	28.6	28.7
29.5	22.5	23.5	24.3	24.9	25.4	25.9	26.3	26.7	27.0	27.3	27.5	27.8	28.0	28.2	28.4	28.5	28.7	28.8	29.0	29.1	29.2
30.0	22.9	23.9	24.7	25.3	25.9	26.3	26.8	27.1	27.4	27.7	28.0	28.2	28.5	28.7	28.8	29.0	29.2	29.3	29.5	29.6	29.7
30.5	23.3	24.3	25.1	25.7	26.3	26.8	27.2	27.6	27.9	28.2	28.5	28.7	28.9	29.1	29.3	29.5	29.7	29.8	30.0	30.1	30.2
31.0	23.7	24.7	25.5	26.2	26.7	27.2	27.6	28.0	28.4	28.7	28.9	29.2	29.4	29.6	29.8	30.0	30.1	30.3	30.4	30.6	30.7
31.5	24.1	25.1	25.9	26.6	27.2	27.7	28.1	28.5	28.8	29.1	29.4	29.6	29.9	30.1	30.3	30.5	30.6	30.8	30.9	31.1	31.2
32.0	24.4	25.5	26.3	27.0	27.6	28.1	28.5	28.9	29.3	29.6	29.9	30.1	30.3	30.6	30.8	30.9	31.1	31.3	31.4	31.6	31.7
32.5	24.8	25.9	26.7	27.4	28.0	28.5	29.0	29.4	29.7	30.0	30.3	30.6	30.8	31.0	31.2	31.4	31.6	31.8	31.9	32.1	32.2
33.0	25.2	26.3	27.1	27.8	28.4	29.0	29.4	29.8	30.2	30.5	30.8	31.1	31.3	31.5	31.7	31.9	32.1	32.3	32.4	32.6	32.7
33.5	25.6	26.7	27.5	28.3	28.9	29.4	29.9	30.3	30.6	31.0	31.3	31.5	31.8	32.0	32.2	32.4	32.6	32.7	32.9	33.0	33.2
34.0	26.0	27.1	28.0	28.7	29.3	29.8	30.3	30.7	31.1	31.4	31.7	32.0	32.2	32.5	32.7	32.9	33.1	33.2	33.4	33.5	33.7
34.5	26.3	27.5	28.4	29.1	29.7	30.3	30.8	31.2	31.5	31.9	32.2	32.5	32.7	32.9	33.2	33.4	33.5	33.7	33.9	34.0	34.2
35.0	26.7	27.9	28.8	29.5	30.2	30.7	31.2	31.6	32.0	32.3	32.6	32.9	33.2	33.4	33.6	33.8	34.0	34.2	34.4	34.5	34.7
35.5	27.1	28.3	29.2	29.9	30.6	31.2	31.6	32.1	32.5	32.8	33.1	33.4	33.7	33.9	34.1	34.3	34.5	34.7	34.9	35.0	35.2
36.0	27.5	28.6	29.6	30.4	31.0	31.6	32.1	32.5	32.9	33.3	33.6	33.9	34.1	34.4	34.6	34.8	35.0	35.2	35.4	35.5	35.7
36.5	27.9	29.0	30.0	30.8	31.5	32.0	32.5	33.0	33.4	33.7	34.0	34.3	34.6	34.9	35.1	35.3	35.5	35.7	35.8	36.0	36.2
37.0	28.2	29.4	30.4	31.2	31.9	32.5	33.0	33.4	33.8	34.2	34.5	34.8	35.1	35.3	35.6	35.8	36.0	36.2	36.3	36.5	36.7
37.5	28.6	29.8	30.8	31.6	32.3	32.9	33.4	33.9	34.3	34.6	35.0	35.3	35.6	35.8	36.0	36.3	36.5	36.6	36.8	37.0	37.1
38.0	29.0	30.2	31.2	32.0	32.7	33.3	33.9	34.3	34.7	35.1	35.4	35.7	36.0	36.3	36.5	36.7	36.9	37.1	37.3	37.5	37.6
38.5	29.4	30.6	31.6	32.5	33.2	33.8	34.3	34.8	35.2	35.6	35.9	36.2	36.5	36.8	37.0	37.2	37.4	37.6	37.8	38.0	38.1
39.0	29.8	31.0	32.0	32.9	33.6	34.2	34.7	35.2	35.6	36.0	36.4	36.7	37.0	37.2	37.5	37.7	37.9	38.1	38.3	38.5	38.6
39.5	30.1	31.4	32.4	33.3	34.0	34.6	35.2	35.7	36.1	36.5	36.8	37.2	37.4	37.7	38.0	38.2	38.4	38.6	38.8	39.0	39.1
40.0	30.5	31.8	32.9	33.7	34.5	35.1	35.6	36.1	36.6	36.9	37.3	37.6	37.9	38.2	38.4	38.7	38.9	39.1	39.3	39.5	39.6
40.5	30.9	32.2	33.3	34.1	34.9	35.5	36.1	36.6	37.0	37.4	37.8	38.1	38.4	38.7	38.9	39.2	39.4	39.6	39.8	39.9	40.1
41.0	31.3	32.6	33.7	34.6	35.3	36.0	36.5	37.0	37.5	37.9	38.2	38.6	38.9	39.1	39.4	39.6	39.9	40.1	40.3	40.4	40.6
41.5	31.6	33.0	34.1	35.0	35.7	36.4	37.0	37.5	37.9	38.3	38.7	39.0	39.3	39.6	39.9	40.1	40.3	40.6	40.7	40.9	41.1
42.0	32.0	33.4	34.5	35.4	36.2	36.8	37.4	37.9	38.4	38.8	39.2	39.5	39.8	40.1	40.4	40.6	40.8	41.0	41.2	41.4	41.6
42.5	32.4	33.8	34.9	35.8	36.6	37.3	37.8	38.4	38.8	39.2	39.6	40.0	40.3	40.6	40.8	41.1	41.3	41.5	41.7	41.9	42.1
43.0	32.8	34.2	35.3	36.2	37.0	37.7	38.3	38.8	39.3	39.7	40.1	40.4	40.8	41.0	41.3	41.6	41.8	42.0	42.2	42.4	42.6
43.5	33.2	34.6	35.7	36.7	37.4	38.1	38.7	39.3	39.7	40.2	40.5	40.9	41.2	41.5	41.8	42.0	42.3	42.5	42.7	42.9	43.1
44.0	33.5	35.0	36.1	37.1	37.9	38.6	39.2	39.7	40.2	40.6	41.0	41.4	41.7	42.0	42.3	42.5	42.8	43.0	43.2	43.4	43.6
44.5	33.9	35.4	36.5	37.5	38.3	39.0	39.6	40.2	40.6	41.1	41.5	41.8	42.2	42.5	42.8	43.0	43.3	43.5	43.7	43.9	44.1
45.0	34.3	35.8	36.9	37.9	38.7	39.4	40.1	40.6	41.1	41.5	41.9	42.3	42.6	42.9	43.2	43.5	43.7	44.0	44.2	44.4	44.6
45.5	34.7	36.2	37.3	38.3	39.2	39.9	40.5	41.1	41.6	42.0	42.4	42.8	43.1	43.4	43.7	44.0	44.2	44.5	44.7	44.9	45.1
46.0	35.0	36.5	37.7	38.7	39.6	40.3	40.9	41.5	42.0	42.5	42.9	43.2	43.6	43.9	44.2	44.5	44.7	44.9	45.2	45.4	45.6
46.5	35.4	36.9	38.2	39.2	40.0	40.8	41.4	42.0	42.5	42.9	43.3	43.7	44.1	44.4	44.7	44.9	45.2	45.4	45.7	45.9	46.1
47.0	35.8	37.3	38.6	39.6	40.4	41.2	41.8	42.4	42.9	43.4	43.8	44.2	44.5	44.8	45.1	45.4	45.7	45.9	46.1	46.4	46.6
47.5	36.2	37.7	39.0	40.0	40.9	41.6	42.3	42.9	43.4	43.8	44.3	44.6	45.0	45.3	45.6	45.9	46.2	46.4	46.6	46.8	47.0
48.0	36.6	38.1	39.4	40.4	41.3	42.1	42.7	43.3	43.8	44.3	44.7	45.1	45.5	45.8	46.1	46.4	46.6	46.9	47.1	47.3	47.5
48.5	36.9	38.5	39.8	40.8	41.7	42.5	43.2	43.8	44.3	44.8	45.2	45.6	45.9	46.3	46.6	46.9	47.1	47.4	47.6	47.8	48.0
49.0	37.3	38.9	40.2	41.3	42.2	42.9	43.6	44.2	44.7	45.2	45.7	46.1	46.4	46.8	47.1	47.3	47.6	47.9	48.1	48.3	48.5
49.5	37.7	39.3	40.6	41.7	42.6	43.4	44.0	44.7	45.2	45.7	46.1	46.5	46.9	47.2	47.5	47.8	48.1	48.4	48.6	48.8	49.0
50.0	38.1	39.7	41.0	42.1	43.0	43.8	44.5	45.1	45.6	46.1	46.6	47.0	47.4	47.7	48.0	48.3	48.6	48.8	49.1	49.3	49.5

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BLACKCHERRY

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.8	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9	4.9	5.0	5.0	5.0	5.0
5.5	4.1	4.4	4.6	4.7	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.5	5.5	5.5
6.0	4.5	4.8	5.0	5.2	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9	5.9	5.9	6.0	6.0	6.0
6.5	4.9	5.2	5.4	5.6	5.7	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.5	6.5
7.0	5.2	5.6	5.8	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9	6.9	6.9	7.0	7.0
7.5	5.6	6.0	6.2	6.4	6.6	6.7	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.3	7.4	7.4	7.4	7.4	7.5	7.5
8.0	6.0	6.3	6.6	6.8	7.0	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9	7.9	7.9	8.0	8.0
8.5	6.3	6.7	7.0	7.3	7.5	7.6	7.7	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.5
9.0	6.7	7.1	7.4	7.7	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.9	8.9	8.9	8.9	9.0
9.5	7.0	7.5	7.8	8.1	8.3	8.5	8.6	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.3	9.4	9.4	9.4	9.5
10.0	7.4	7.9	8.2	8.5	8.7	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.8	9.9	9.9	9.9	10.0
10.5	7.8	8.2	8.6	8.9	9.2	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.2	10.3	10.3	10.4	10.4	10.4	10.4
11.0	8.1	8.6	9.0	9.3	9.6	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.8	10.9	10.9	10.9
11.5	8.5	9.0	9.4	9.7	10.0	10.2	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.2	11.3	11.3	11.4	11.4	11.4
12.0	8.8	9.4	9.8	10.1	10.4	10.6	10.8	11.0	11.1	11.3	11.4	11.5	11.5	11.6	11.7	11.7	11.8	11.8	11.9	11.9	11.9
12.5	9.2	9.7	10.2	10.5	10.8	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3	12.3	12.4	12.4	12.4
13.0	9.5	10.1	10.6	11.0	11.3	11.5	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.8	12.8	12.8	12.9	12.9
13.5	9.8	10.5	11.0	11.4	11.7	11.9	12.1	12.3	12.5	12.6	12.8	12.9	13.0	13.0	13.1	13.2	13.2	13.3	13.3	13.4	13.4
14.0	10.2	10.8	11.4	11.8	12.1	12.4	12.6	12.8	12.9	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.8	13.8	13.9	13.9
14.5	10.5	11.2	11.7	12.2	12.5	12.8	13.0	13.2	13.4	13.5	13.7	13.8	13.9	14.0	14.1	14.1	14.2	14.3	14.3	14.4	14.4
15.0	10.9	11.6	12.1	12.6	12.9	13.2	13.4	13.7	13.8	14.0	14.1	14.3	14.4	14.5	14.5	14.6	14.7	14.7	14.8	14.9	14.9
15.5	11.2	11.9	12.5	13.0	13.3	13.6	13.9	14.1	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.2	15.3	15.3	15.4
16.0	11.5	12.3	12.9	13.3	13.7	14.0	14.3	14.5	14.7	14.9	15.0	15.2	15.3	15.4	15.5	15.6	15.7	15.7	15.8	15.8	15.9
16.5	11.9	12.7	13.3	13.7	14.1	14.5	14.7	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.0	16.1	16.1	16.2	16.3	16.3	16.4
17.0	12.2	13.0	13.6	14.1	14.5	14.9	15.2	15.4	15.6	15.8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.8	16.9
17.5	12.5	13.4	14.0	14.5	14.9	15.3	15.6	15.8	16.1	16.2	16.4	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.2	17.3	17.4
18.0	12.9	13.7	14.4	14.9	15.3	15.7	16.0	16.3	16.5	16.7	16.9	17.0	17.2	17.3	17.4	17.5	17.6	17.7	17.7	17.8	17.9
18.5	13.2	14.1	14.8	15.3	15.8	16.1	16.4	16.7	16.9	17.1	17.3	17.5	17.6	17.7	17.9	18.0	18.1	18.1	18.2	18.3	18.4
19.0	13.5	14.4	15.1	15.7	16.2	16.5	16.9	17.1	17.4	17.6	17.8	17.9	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.8
19.5	13.9	14.8	15.5	16.1	16.6	16.9	17.3	17.6	17.8	18.0	18.2	18.4	18.5	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.3
20.0	14.2	15.1	15.9	16.5	17.0	17.4	17.7	18.0	18.2	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.5	19.6	19.7	19.8	19.8
20.5	14.5	15.5	16.2	16.9	17.3	17.8	18.1	18.4	18.7	18.9	19.1	19.3	19.5	19.6	19.7	19.9	20.0	20.1	20.2	20.2	20.3
21.0	14.8	15.8	16.6	17.2	17.7	18.2	18.5	18.8	19.1	19.4	19.6	19.8	19.9	20.1	20.2	20.3	20.4	20.6	20.6	20.7	20.8
21.5	15.1	16.2	17.0	17.6	18.1	18.6	19.0	19.3	19.6	19.8	20.0	20.2	20.4	20.5	20.7	20.8	20.9	21.0	21.1	21.2	21.3
22.0	15.5	16.5	17.3	18.0	18.5	19.0	19.4	19.7	20.0	20.2	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.5	21.6	21.7	21.8
22.5	15.8	16.9	17.7	18.4	18.9	19.4	19.8	20.1	20.4	20.7	20.9	21.1	21.3	21.5	21.6	21.7	21.9	22.0	22.1	22.2	22.3
23.0	16.1	17.2	18.1	18.7	19.3	19.8	20.2	20.5	20.8	21.1	21.3	21.6	21.8	21.9	22.1	22.2	22.4	22.5	22.6	22.7	22.8
23.5	16.4	17.5	18.4	19.1	19.7	20.2	20.6	21.0	21.3	21.6	21.8	22.0	22.2	22.4	22.5	22.7	22.8	23.0	23.1	23.2	23.3
24.0	16.7	17.9	18.8	19.5	20.1	20.6	21.0	21.4	21.7	22.0	22.2	22.5	22.7	22.8	23.0	23.2	23.3	23.4	23.6	23.7	23.8
24.5	17.0	18.2	19.1	19.9	20.5	21.0	21.4	21.8	22.1	22.4	22.7	22.9	23.1	23.3	23.5	23.6	23.8	23.9	24.0	24.1	24.3
25.0	17.3	18.5	19.5	20.2	20.9	21.4	21.8	22.2	22.6	22.9	23.1	23.4	23.6	23.8	23.9	24.1	24.3	24.4	24.5	24.6	24.7
25.5	17.6	18.9	19.8	20.6	21.3	21.8	22.2	22.6	23.0	23.3	23.6	23.8	24.0	24.2	24.4	24.6	24.7	24.9	25.0	25.1	25.2
26.0	17.9	19.2	20.2	21.0	21.6	22.2	22.6	23.1	23.4	23.7	24.0	24.2	24.5	24.7	24.9	25.0	25.2	25.3	25.5	25.6	25.7
26.5	18.2	19.5	20.5	21.3	22.0	22.6	23.1	23.5	23.8	24.2	24.4	24.7	24.9	25.1	25.3	25.5	25.7	25.8	26.0	26.1	26.2
27.0	18.5	19.9	20.9	21.7	22.4	23.0	23.5	23.9	24.3	24.6	24.9	25.1	25.4	25.6	25.8	26.0	26.1	26.3	26.4	26.6	26.7
27.5	18.8	20.2	21.2	22.1	22.8	23.4	23.9	24.3	24.7	25.0	25.3	25.6	25.8	26.0	26.3	26.4	26.6	26.8	26.9	27.1	27.2
28.0	19.1	20.5	21.6	22.4	23.2	23.8	24.3	24.7	25.1	25.4	25.7	26.0	26.3	26.5	26.7	26.9	27.1	27.3	27.4	27.6	27.7
28.5	19.4	20.8	21.9	22.8	23.5	24.1	24.7	25.1	25.5	25.9	26.2	26.5	26.7	27.0	27.2	27.4	27.6	27.7	27.9	28.0	28.2
29.0	19.7	21.2	22.3	23.2	23.9	24.5	25.1	25.5	25.9	26.3	26.6	26.9	27.2	27.4	27.6	27.8	28.0	28.2	28.4	28.5	28.7
29.5	20.0	21.5	22.6	23.5	24.3	24.9	25.5	25.9	26.3	26.7	27.0	27.3	27.6	27.9	28.1	28.3	28.5	28.7	28.8	29.0	29.2
30.0	20.3	21.8	23.0	23.9	24.7	25.3	25.9	26.3	26.8	27.1	27.5	27.8	28.1	28.3	28.5	28.8	29.0	29.2	29.3	29.5	29.6
30.5	20.6	22.1	23.3	24.2	25.0	25.7	26.3	26.7	27.2	27.6	27.9	28.2	28.5	28.8	29.0	29.2	29.4	29.6	29.8	30.0	30.1
31.0	20.9	22.4	23.6	24.6	25.4	26.1	26.6	27.2	27.6	28.0	28.3	28.7	29.0	29.2	29.5	29.7	29.9	30.1	30.3	30.5	30.6
31.5	21.2	22.7	24.0	24.9	25.8	26.5	27.0	27.6	28.0	28.4	28.8	29.1	29.4	29.7	29.9	30.2	30.4	30.6	30.8	30.9	31.1
32.0	21.5	23.1	24.3	25.3	26.1	26.8	27.4	28.0	28.4	28.8	29.2	29.5	29.8	30.1	30.4	30.6	30.8	31.0	31.2	31.4	31.6
32.5	21.8	23.4	24.6	25.7	26.5	27.2	27.8	28.4	28.8	29.3	29.6	30.0	30.3	30.6	30.8	31.1	31.3	31.5	31.7	31.9	32.1
33.0	22.0	23.7	25.0	26.0	26.9	27.6	28.2	28.8	29.2	29.7	30.1	30.4	30.7	31.0	31.3	31.5	31.8	32.0	32.2	32.4	32.6
33.5	22.3	24.0	25.3	26.3	27.2	28.0	28.6	29.2	29.7	30.1	30.5	30.8	31.2	31.5	31.7	32.0	32.2	32.5	32.7	32.9	33.1
34.0	22.6	24.3	25.6	26.7	27.6	28.3	29.0	29.6	30.1	30.5	30.9	31.3	31.6	31.9	32.2	32.5	32.7	32.9	33.2	33.4	33.6
34.5	22.9	24.6	25.9	27.0	27.9	28.7	29.4	30.0	30.5	30.9	31.3	31.7	32.0	32.4	32.6	32.9	33.2	33.4	33.6	33.8	34.0
35.0	23.2	24.9	26.3	27.4	28.3	29.1	29.8	30.4	30.9	31.3	31.8	32.1	32.5	32.8	33.1	33.4	33.6	33.9	34.1	34.3	34.5
35.5	23.4	25.2	26.6	27.7	28.7	29.5	30.1	30.7	31.3	31.8	32.2	32.6	32.9	33.2	33.6	33.8	34.1	34.3	34.6	34.8	35.0
36.0	23.7	25.5	26.9	28.1	29.0	29.8	30.5	31.1	31.7	32.2	32.6	33.0	33.4	33.7	34.0	34.3	34.6	34.8	35.1	35.3	35.5
36.5	24.0	25.8	27.2	28.4	29.4	30.2	30.9	31.5	32.1	32.6	33.0	33.4	33.8	34.1	34.5	34.7	35.0	35.3	35.5	35.8	36.0
37.0	24.2	26.1	27.6	28.7	29.7	30.6	31.3	31.9	32.5	33.0	33.4	33.9	34.2	34.6	34.9	35.2	35.5	35.8	36.0	36.2	36.5
37.5	24.5	26.4	27.9	29.1	30.1	30.9	31.7	32.3	32.9	33.4	33.9	34.3	34.7	35.0	35.4	35.7	35.9	36.2	36.5	36.7	37.0
38.0	24.8	26.7	28.2	29.4	30.4	31.3	32.1	32.7	33.3	33.8	34.3	34.7	35.1	35.5	35.8	36.1	36.4	36.7	37.0	37.2	37.4
38.5	25.0	27.0	28.5	29.8	30.8	31.7	32.4	33.1	33.7	34.2	34.7	35.1	35.5	35.9	36.2	36.6	36.9	37.2	37.4	37.7	37.9
39.0	25.3	27.3	28.8	30.1	31.1	32.0	32.8	33.5	34.1	34.6	35.1	35.6	36.0	36.3	36.7	37.0	37.3	37.6	37.9	38.2	38.4
39.5	25.6	27.6	29.1	30.4	31.5	32.4	33.2	33.9	34.5	35.0	35.5	36.0	36.4	36.8	37.1	37.5	37.8	38.1	38.4	38.6	38.9
40.0	25.8	27.9	29.5	30.8	31.8	32.8	33.6	34.3	34.9	35.4	35.9	36.4	36.8	37.2	37.6	37.9	38.3	38.6	38.8	39.1	39.4
40.5	26.1	28.1	29.8	31.1	32.2	33.1	33.9	34.6	35.3	35.8	36.4	36.8	37.3	37.7	38.0	38.4	38.7	39.0	39.3	39.6	39.9
41.0	26.4	28.4	30.1	31.4	32.5	33.5	34.3	35.0	35.7	36.2	36.8	37.2	37.7	38.1	38.5	38.8	39.2	39.5	39.8	40.1	40.4
41.5	26.6	28.7	30.4	31.7	32.9	33.8	34.7	35.4	36.1	36.6	37.2	37.7	38.1	38.5	38.9	39.3	39.6	40.0	40.3	40.6	40.8
42.0	26.9	29.0	30.7	32.1	33.2	34.2	35.0	35.8	36.5	37.0	37.6	38.1	38.5	39.0	39.4	39.7	40.1	40.4	40.7	41.0	41.3
42.5	27.1	29.3	31.0	32.4	33.6	34.5	35.4	36.2	36.8	37.5	38.0	38.5	39.0	39.4	39.8	40.2	40.5	40.9	41.2	41.5	41.8
43.0	27.4	29.6	31.3	32.7	33.9	34.9	35.8	36.5	37.2	37.9	38.4	38.9	39.4	39.8	40.3	40.6	41.0	41.4	41.7	42.0	42.3
43.5	27.6	29.8	31.6	33.0	34.2	35.3	36.1	36.9	37.6	38.2	38.8	39.3	39.8	40.3	40.7	41.1	41.5	41.8	42.2	42.5	42.8
44.0	27.9	30.1	31.9	33.3	34.6	35.6	36.5	37.3	38.0	38.6	39.2	39.8	40.3	40.7	41.1	41.5	41.9	42.3	42.6	43.0	43.3
44.5	28.1	30.4	32.2	33.7	34.9	36.0	36.9	37.7	38.4	39.0	39.6	40.2	40.7	41.1	41.6	42.0	42.4	42.7	43.1	43.4	43.7
45.0	28.4	30.7	32.5	34.0	35.2	36.3	37.2	38.0	38.8	39.4	40.0	40.6	41.1	41.6	42.0	42.4	42.8	43.2	43.6	43.9	44.2
45.5	28.6	30.9	32.8	34.3	35.6	36.6	37.6	38.4	39.2	39.8	40.4	41.0	41.5	42.0	42.5	42.9	43.3	43.7	44.0	44.4	44.7
46.0	28.8	31.2	33.1	34.6	35.9	37.0	38.0	38.8	39.5	40.2	40.9	41.4	41.9	42.4	42.9	43.3	43.7	44.1	44.5	44.9	45.2
46.5	29.1	31.5	33.4	34.9	36.2	37.3	38.3	39.2	39.9	40.6	41.3	41.8	42.4	42.9	43.3	43.8	44.2	44.6	45.0	45.3	45.7
47.0	29.3	31.7	33.7	35.2	36.6	37.7	38.7	39.5	40.3	41.0	41.7	42.2	42.8	43.3	43.8	44.2	44.7	45.1	45.4	45.8	46.2
47.5	29.6	32.0	34.0	35.5	36.9	38.0	39.0	39.9	40.7	41.4	42.1	42.7	43.2	43.7	44.2	44.7	45.1	45.5	45.9	46.3	46.6
48.0	29.8	32.3	34.2	35.9	37.2	38.4	39.4	40.3	41.1	41.8	42.5	43.1	43.6	44.2	44.7	45.1	45.6	46.0	46.4	46.8	47.1
48.5	30.0	32.5	34.5	36.2	37.5	38.7	39.7	40.6	41.5	42.2	42.9	43.5	44.1	44.6	45.1	45.6	46.0	46.4	46.8	47.2	47.6
49.0	30.3	32.8	34.8	36.5	37.9	39.0	40.1	41.0	41.8	42.6	43.3	43.9	44.5	45.0	45.5	46.0	46.5	46.9	47.3	47.7	48.1
49.5	30.5	33.1	35.1	36.8	38.2	39.4	40.4	41.4	42.2	43.0	43.7	44.3	44.9	45.4	46.0	46.4	46.9	47.4	47.8	48.2	48.6
50.0	30.7	33.3	35.4	37.1	38.5	39.7	40.8	41.7	42.6	43.4	44.1	44.7	45.3	45.9	46.4	46.9	47.4	47.8	48.2	48.7	49.1

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR WHITE OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	2.9	3.1	3.3	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9
5.5	3.2	3.5	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.4
6.0	3.5	3.8	4.0	4.2	4.4	4.6	4.7	4.8	4.9	5.1	5.2	5.2	5.3	5.4	5.5	5.6	5.6	5.7	5.8	5.8	5.9
6.5	3.8	4.1	4.3	4.6	4.8	4.9	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.2	6.2	6.3	6.4
7.0	4.1	4.4	4.7	4.9	5.1	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.6	6.7	6.8	6.8
7.5	4.3	4.7	5.0	5.3	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.3	7.3
8.0	4.6	5.0	5.3	5.6	5.9	6.1	6.3	6.4	6.6	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.8
8.5	4.9	5.3	5.7	6.0	6.2	6.5	6.7	6.8	7.0	7.2	7.3	7.4	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3
9.0	5.2	5.6	6.0	6.3	6.6	6.8	7.0	7.2	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8
9.5	5.5	6.0	6.3	6.7	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.3	8.4	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3
10.0	5.8	6.3	6.7	7.0	7.3	7.6	7.8	8.0	8.2	8.4	8.6	8.7	8.9	9.0	9.1	9.3	9.4	9.5	9.6	9.7	9.8
10.5	6.1	6.6	7.0	7.4	7.7	8.0	8.2	8.4	8.7	8.8	9.0	9.2	9.3	9.5	9.6	9.7	9.9	10.0	10.1	10.2	10.3
11.0	6.4	6.9	7.3	7.7	8.1	8.3	8.6	8.8	9.1	9.3	9.4	9.6	9.8	9.9	10.1	10.2	10.3	10.4	10.6	10.7	10.8
11.5	6.7	7.2	7.7	8.1	8.4	8.7	9.0	9.3	9.5	9.7	9.9	10.1	10.2	10.4	10.5	10.7	10.8	10.9	11.0	11.1	11.3
12.0	7.0	7.5	8.0	8.4	8.8	9.1	9.4	9.7	9.9	10.1	10.3	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.5	11.6	11.7
12.5	7.2	7.8	8.4	8.8	9.2	9.5	9.8	10.1	10.3	10.5	10.7	10.9	11.1	11.3	11.4	11.6	11.7	11.9	12.0	12.1	12.2
13.0	7.5	8.2	8.7	9.1	9.5	9.9	10.2	10.5	10.7	10.9	11.2	11.4	11.6	11.7	11.9	12.1	12.2	12.3	12.5	12.6	12.7
13.5	7.8	8.5	9.0	9.5	9.9	10.2	10.6	10.9	11.1	11.4	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	13.0	13.1	13.2
14.0	8.1	8.8	9.4	9.8	10.3	10.6	11.0	11.3	11.5	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.1	13.3	13.4	13.6	13.7
14.5	8.4	9.1	9.7	10.2	10.6	11.0	11.4	11.7	12.0	12.2	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.8	13.9	14.1	14.2
15.0	8.7	9.4	10.0	10.5	11.0	11.4	11.7	12.1	12.4	12.6	12.9	13.1	13.3	13.5	13.7	13.9	14.1	14.2	14.4	14.5	14.7
15.5	9.0	9.7	10.4	10.9	11.4	11.8	12.1	12.5	12.8	13.1	13.3	13.6	13.8	14.0	14.2	14.4	14.5	14.7	14.9	15.0	15.2
16.0	9.3	10.0	10.7	11.2	11.7	12.1	12.5	12.9	13.2	13.5	13.7	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7
16.5	9.6	10.4	11.0	11.6	12.1	12.5	12.9	13.3	13.6	13.9	14.2	14.4	14.7	14.9	15.1	15.3	15.5	15.7	15.8	16.0	16.1
17.0	9.9	10.7	11.4	11.9	12.5	12.9	13.3	13.7	14.0	14.3	14.6	14.9	15.1	15.3	15.6	15.8	16.0	16.1	16.3	16.5	16.6
17.5	10.1	11.0	11.7	12.3	12.8	13.3	13.7	14.1	14.4	14.7	15.0	15.3	15.6	15.8	16.0	16.2	16.4	16.6	16.8	17.0	17.1
18.0	10.4	11.3	12.0	12.7	13.2	13.7	14.1	14.5	14.8	15.2	15.5	15.7	16.0	16.2	16.5	16.7	16.9	17.1	17.3	17.4	17.6
18.5	10.7	11.6	12.4	13.0	13.6	14.0	14.5	14.9	15.3	15.6	15.9	16.2	16.4	16.7	16.9	17.2	17.4	17.6	17.7	17.9	18.1
19.0	11.0	11.9	12.7	13.4	13.9	14.4	14.9	15.3	15.7	16.0	16.3	16.6	16.9	17.1	17.4	17.6	17.8	18.0	18.2	18.4	18.6
19.5	11.3	12.2	13.0	13.7	14.3	14.8	15.3	15.7	16.1	16.4	16.8	17.1	17.3	17.6	17.8	18.1	18.3	18.5	18.7	18.9	19.1
20.0	11.6	12.6	13.4	14.1	14.7	15.2	15.7	16.1	16.5	16.8	17.2	17.5	17.8	18.0	18.3	18.5	18.8	19.0	19.2	19.4	19.6
20.5	11.9	12.9	13.7	14.4	15.0	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.2	18.5	18.8	19.0	19.2	19.5	19.7	19.9	20.1
21.0	12.2	13.2	14.0	14.8	15.4	16.0	16.4	16.9	17.3	17.7	18.0	18.4	18.7	19.0	19.2	19.5	19.7	19.9	20.1	20.4	20.5
21.5	12.5	13.5	14.4	15.1	15.8	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.4	19.7	19.9	20.2	20.4	20.6	20.8	21.0
22.0	12.8	13.8	14.7	15.5	16.1	16.7	17.2	17.7	18.1	18.5	18.9	19.2	19.6	19.9	20.1	20.4	20.6	20.9	21.1	21.3	21.5
22.5	13.0	14.1	15.0	15.8	16.5	17.1	17.6	18.1	18.6	19.0	19.3	19.7	20.0	20.3	20.6	20.9	21.1	21.4	21.6	21.8	22.0
23.0	13.3	14.5	15.4	16.2	16.9	17.5	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.8	21.0	21.3	21.6	21.8	22.1	22.3	22.5
23.5	13.6	14.8	15.7	16.5	17.2	17.9	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.1	22.3	22.5	22.8	23.0
24.0	13.9	15.1	16.0	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	21.0	21.3	21.7	22.0	22.3	22.5	22.8	23.0	23.3	23.5
24.5	14.2	15.4	16.4	17.2	18.0	18.6	19.2	19.7	20.2	20.6	21.1	21.4	21.8	22.1	22.4	22.7	23.0	23.3	23.5	23.7	24.0
25.0	14.5	15.7	16.7	17.6	18.3	19.0	19.6	20.1	20.6	21.1	21.5	21.9	22.2	22.6	22.9	23.2	23.5	23.7	24.0	24.2	24.5
25.5	14.8	16.0	17.1	17.9	18.7	19.4	20.0	20.5	21.0	21.5	21.9	22.3	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.7	25.0
26.0	15.1	16.3	17.4	18.3	19.1	19.8	20.4	20.9	21.4	21.9	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.7	24.9	25.2	25.4
26.5	15.4	16.7	17.7	18.6	19.4	20.1	20.8	21.3	21.9	22.3	22.8	23.2	23.6	23.9	24.3	24.6	24.9	25.2	25.4	25.7	25.9
27.0	15.7	17.0	18.1	19.0	19.8	20.5	21.2	21.7	22.3	22.8	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.6	25.9	26.2	26.4
27.5	16.0	17.3	18.4	19.3	20.2	20.9	21.5	22.1	22.7	23.2	23.6	24.1	24.5	24.8	25.2	25.5	25.8	26.1	26.4	26.7	26.9
28.0	16.2	17.6	18.7	19.7	20.5	21.3	21.9	22.5	23.1	23.6	24.1	24.5	24.9	25.3	25.6	26.0	26.3	26.6	26.9	27.1	27.4
28.5	16.5	17.9	19.1	20.0	20.9	21.7	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.7	26.1	26.4	26.8	27.1	27.3	27.6	27.9
29.0	16.8	18.2	19.4	20.4	21.3	22.0	22.7	23.3	23.9	24.4	24.9	25.4	25.8	26.2	26.5	26.9	27.2	27.5	27.8	28.1	28.4
29.5	17.1	18.5	19.7	20.8	21.6	22.4	23.1	23.8	24.3	24.9	25.4	25.8	26.2	26.6	27.0	27.4	27.7	28.0	28.3	28.6	28.9
30.0	17.4	18.9	20.1	21.1	22.0	22.8	23.5	24.2	24.7	25.3	25.8	26.2	26.7	27.1	27.5	27.8	28.2	28.5	28.8	29.1	29.4
30.5	17.7	19.2	20.4	21.5	22.4	23.2	23.9	24.6	25.2	25.7	26.2	26.7	27.1	27.5	27.9	28.3	28.6	29.0	29.3	29.6	29.8
31.0	18.0	19.5	20.7	21.8	22.7	23.6	24.3	25.0	25.6	26.1	26.6	27.1	27.6	28.0	28.4	28.7	29.1	29.4	29.7	30.0	30.3
31.5	18.3	19.8	21.1	22.2	23.1	23.9	24.7	25.4	26.0	26.5	27.1	27.6	28.0	28.4	28.8	29.2	29.6	29.9	30.2	30.5	30.8
32.0	18.6	20.1	21.4	22.5	23.5	24.3	25.1	25.8	26.4	27.0	27.5	28.0	28.5	28.9	29.3	29.7	30.0	30.4	30.7	31.0	31.3
32.5	18.9	20.4	21.7	22.9	23.8	24.7	25.5	26.2	26.8	27.4	27.9	28.4	28.9	29.3	29.8	30.1	30.5	30.9	31.2	31.5	31.8
33.0	19.2	20.8	22.1	23.2	24.2	25.1	25.9	26.6	27.2	27.8	28.4	28.9	29.3	29.8	30.2	30.6	31.0	31.3	31.7	32.0	32.3
33.5	19.4	21.1	22.4	23.6	24.6	25.5	26.3	27.0	27.6	28.2	28.8	29.3	29.8	30.2	30.7	31.1	31.4	31.8	32.1	32.5	32.8
34.0	19.7	21.4	22.8	23.9	24.9	25.8	26.7	27.4	28.0	28.7	29.2	29.7	30.2	30.7	31.1	31.5	31.9	32.3	32.6	33.0	33.3
34.5	20.0	21.7	23.1	24.3	25.3	26.2	27.0	27.8	28.5	29.1	29.7	30.2	30.7	31.1	31.6	32.0	32.4	32.8	33.1	33.4	33.8
35.0	20.3	22.0	23.4	24.6	25.7	26.6	27.4	28.2	28.9	29.5	30.1	30.6	31.1	31.6	32.0	32.5	32.9	33.2	33.6	33.9	34.2
35.5	20.6	22.3	23.8	25.0	26.0	27.0	27.8	28.6	29.3	29.9	30.5	31.1	31.6	32.1	32.5	32.9	33.3	33.7	34.1	34.4	34.7
36.0	20.9	22.6	24.1	25.3	26.4	27.4	28.2	29.0	29.7	30.3	30.9	31.5	32.0	32.5	33.0	33.4	33.8	34.2	34.5	34.9	35.2
36.5	21.2	23.0	24.4	25.7	26.8	27.8	28.6	29.4	30.1	30.8	31.4	31.9	32.5	33.0	33.4	33.9	34.3	34.7	35.0	35.4	35.7
37.0	21.5	23.3	24.8	26.0	27.2	28.1	29.0	29.8	30.5	31.2	31.8	32.4	32.9	33.4	33.9	34.3	34.7	35.1	35.5	35.9	36.2
37.5	21.8	23.6	25.1	26.4	27.5	28.5	29.4	30.2	30.9	31.6	32.2	32.8	33.4	33.9	34.3	34.8	35.2	35.6	36.0	36.4	36.7
38.0	22.1	23.9	25.4	26.7	27.9	28.9	29.8	30.6	31.4	32.0	32.7	33.3	33.8	34.3	34.8	35.2	35.7	36.1	36.5	36.8	37.2
38.5	22.4	24.2	25.8	27.1	28.3	29.3	30.2	31.0	31.8	32.5	33.1	33.7	34.2	34.8	35.2	35.7	36.1	36.6	36.9	37.3	37.7
39.0	22.7	24.5	26.1	27.5	28.6	29.7	30.6	31.4	32.2	32.9	33.5	34.1	34.7	35.2	35.7	36.2	36.6	37.0	37.4	37.8	38.2
39.5	22.9	24.9	26.4	27.8	29.0	30.0	31.0	31.8	32.6	33.3	34.0	34.6	35.1	35.7	36.2	36.6	37.1	37.5	37.9	38.3	38.7
40.0	23.2	25.2	26.8	28.2	29.4	30.4	31.4	32.2	33.0	33.7	34.4	35.0	35.6	36.1	36.6	37.1	37.6	38.0	38.4	38.8	39.1
40.5	23.5	25.5	27.1	28.5	29.7	30.8	31.8	32.6	33.4	34.1	34.8	35.4	36.0	36.6	37.1	37.6	38.0	38.5	38.9	39.3	39.6
41.0	23.8	25.8	27.5	28.9	30.1	31.2	32.2	33.0	33.8	34.6	35.2	35.9	36.5	37.0	37.5	38.0	38.5	38.9	39.3	39.7	40.1
41.5	24.1	26.1	27.8	29.2	30.5	31.6	32.5	33.4	34.2	35.0	35.7	36.3	36.9	37.5	38.0	38.5	39.0	39.4	39.8	40.2	40.6
42.0	24.4	26.4	28.1	29.6	30.8	31.9	32.9	33.8	34.7	35.4	36.1	36.8	37.4	37.9	38.5	39.0	39.4	39.9	40.3	40.7	41.1
42.5	24.7	26.8	28.5	29.9	31.2	32.3	33.3	34.2	35.1	35.8	36.5	37.2	37.8	38.4	38.9	39.4	39.9	40.4	40.8	41.2	41.6
43.0	25.0	27.1	28.8	30.3	31.6	32.7	33.7	34.6	35.5	36.3	37.0	37.6	38.3	38.8	39.4	39.9	40.4	40.8	41.3	41.7	42.1
43.5	25.3	27.4	29.1	30.6	31.9	33.1	34.1	35.1	35.9	36.7	37.4	38.1	38.7	39.3	39.8	40.4	40.8	41.3	41.7	42.2	42.6
44.0	25.6	27.7	29.5	31.0	32.3	33.5	34.5	35.5	36.3	37.1	37.8	38.5	39.1	39.7	40.3	40.8	41.3	41.8	42.2	42.7	43.1
44.5	25.9	28.0	29.8	31.3	32.7	33.8	34.9	35.9	36.7	37.5	38.3	38.9	39.6	40.2	40.7	41.3	41.8	42.3	42.7	43.1	43.5
45.0	26.2	28.3	30.1	31.7	33.0	34.2	35.3	36.3	37.1	37.9	38.7	39.4	40.0	40.6	41.2	41.7	42.3	42.7	43.2	43.6	44.0
45.5	26.4	28.6	30.5	32.0	33.4	34.6	35.7	36.7	37.6	38.4	39.1	39.8	40.5	41.1	41.7	42.2	42.7	43.2	43.7	44.1	44.5
46.0	26.7	29.0	30.8	32.4	33.8	35.0	36.1	37.1	38.0	38.8	39.6	40.3	40.9	41.5	42.1	42.7	43.2	43.7	44.1	44.6	45.0
46.5	27.0	29.3	31.2	32.8	34.1	35.4	36.5	37.5	38.4	39.2	40.0	40.7	41.4	42.0	42.6	43.1	43.7	44.2	44.6	45.1	45.5
47.0	27.3	29.6	31.5	33.1	34.5	35.8	36.9	37.9	38.8	39.6	40.4	41.1	41.8	42.4	43.0	43.6	44.1	44.6	45.1	45.6	46.0
47.5	27.6	29.9	31.8	33.5	34.9	36.1	37.3	38.3	39.2	40.1	40.8	41.6	42.3	42.9	43.5	44.1	44.6	45.1	45.6	46.0	46.5
48.0	27.9	30.2	32.2	33.8	35.2	36.5	37.7	38.7	39.6	40.5	41.3	42.0	42.7	43.4	44.0	44.5	45.1	45.6	46.1	46.5	47.0
48.5	28.2	30.5	32.5	34.2	35.6	36.9	38.1	39.1	40.0	40.9	41.7	42.5	43.2	43.8	44.4	45.0	45.5	46.1	46.5	47.0	47.5
49.0	28.5	30.9	32.8	34.5	36.0	37.3	38.4	39.5	40.5	41.3	42.1	42.9	43.6	44.3	44.9	45.5	46.0	46.5	47.0	47.5	48.0
49.5	28.8	31.2	33.2	34.9	36.4	37.7	38.8	39.9	40.9	41.8	42.6	43.3	44.0	44.7	45.3	45.9	46.5	47.0	47.5	48.0	48.4
50.0	29.1	31.5	33.5	35.2	36.7	38.0	39.2	40.3	41.3	42.2	43.0	43.8	44.5	45.2	45.8	46.4	46.9	47.5	48.0	48.5	48.9

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SWAMP WHITE OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.0	3.2	3.4	3.5	3.6	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.8	4.8	4.9
5.5	3.3	3.5	3.7	3.9	4.0	4.1	4.3	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.4
6.0	3.7	3.9	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.6	5.6	5.7	5.8	5.8
6.5	4.0	4.2	4.4	4.6	4.7	4.9	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.3	6.3
7.0	4.3	4.5	4.7	4.9	5.1	5.3	5.4	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.7	6.8
7.5	4.6	4.8	5.1	5.3	5.5	5.6	5.8	6.0	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3
8.0	4.9	5.2	5.4	5.6	5.8	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8
8.5	5.2	5.5	5.7	6.0	6.2	6.4	6.6	6.7	6.9	7.1	7.2	7.3	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3
9.0	5.5	5.8	6.1	6.3	6.6	6.8	7.0	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.3	8.4	8.5	8.6	8.7	8.8
9.5	5.8	6.1	6.4	6.7	6.9	7.1	7.3	7.5	7.7	7.9	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9	9.1	9.2	9.3
10.0	6.1	6.4	6.8	7.0	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9.0	9.2	9.3	9.4	9.5	9.6	9.7
10.5	6.4	6.8	7.1	7.4	7.6	7.9	8.1	8.3	8.5	8.7	8.9	9.0	9.2	9.4	9.5	9.6	9.8	9.9	10.0	10.1	10.2
11.0	6.7	7.1	7.4	7.7	8.0	8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	10.5	10.6	10.7
11.5	7.0	7.4	7.8	8.1	8.4	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.2	10.4	10.5	10.7	10.8	11.0	11.1	11.2
12.0	7.3	7.7	8.1	8.4	8.7	9.0	9.3	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.8	11.0	11.2	11.3	11.4	11.6	11.7
12.5	7.6	8.0	8.4	8.8	9.1	9.4	9.7	9.9	10.1	10.4	10.6	10.8	11.0	11.1	11.3	11.5	11.6	11.8	11.9	12.0	12.2
13.0	7.9	8.4	8.8	9.1	9.5	9.8	10.0	10.3	10.5	10.8	11.0	11.2	11.4	11.6	11.7	11.9	12.1	12.2	12.4	12.5	12.7
13.5	8.2	8.7	9.1	9.5	9.8	10.1	10.4	10.7	11.0	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.9	13.0	13.2
14.0	8.5	9.0	9.4	9.8	10.2	10.5	10.8	11.1	11.4	11.6	11.8	12.1	12.3	12.5	12.7	12.8	13.0	13.2	13.3	13.5	13.6
14.5	8.8	9.3	9.8	10.2	10.5	10.9	11.2	11.5	11.8	12.0	12.3	12.5	12.7	12.9	13.1	13.3	13.5	13.6	13.8	14.0	14.1
15.0	9.1	9.6	10.1	10.5	10.9	11.3	11.6	11.9	12.2	12.4	12.7	12.9	13.1	13.3	13.6	13.7	13.9	14.1	14.3	14.5	14.6
15.5	9.4	10.0	10.4	10.9	11.3	11.6	12.0	12.3	12.6	12.8	13.1	13.3	13.6	13.8	14.0	14.2	14.4	14.6	14.8	14.9	15.1
16.0	9.7	10.3	10.8	11.2	11.6	12.0	12.4	12.7	13.0	13.3	13.5	13.8	14.0	14.2	14.5	14.7	14.9	15.1	15.2	15.4	15.6
16.5	10.0	10.6	11.1	11.6	12.0	12.4	12.7	13.1	13.4	13.7	13.9	14.2	14.4	14.7	14.9	15.1	15.3	15.5	15.7	15.9	16.1
17.0	10.3	10.9	11.4	11.9	12.4	12.8	13.1	13.5	13.8	14.1	14.4	14.6	14.9	15.1	15.4	15.6	15.8	16.0	16.2	16.4	16.6
17.5	10.6	11.2	11.8	12.3	12.7	13.1	13.5	13.9	14.2	14.5	14.8	15.1	15.3	15.6	15.8	16.0	16.3	16.5	16.7	16.9	17.1
18.0	10.9	11.5	12.1	12.6	13.1	13.5	13.9	14.3	14.6	14.9	15.2	15.5	15.8	16.0	16.3	16.5	16.7	16.9	17.1	17.3	17.5
18.5	11.2	11.9	12.4	13.0	13.4	13.9	14.3	14.6	15.0	15.3	15.6	15.9	16.2	16.5	16.7	16.9	17.2	17.4	17.6	17.8	18.0
19.0	11.5	12.2	12.8	13.3	13.8	14.2	14.7	15.0	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.4	17.6	17.9	18.1	18.3	18.5
19.5	11.8	12.5	13.1	13.7	14.2	14.6	15.0	15.4	15.8	16.1	16.5	16.8	17.1	17.3	17.6	17.9	18.1	18.3	18.6	18.8	19.0
20.0	12.1	12.8	13.4	14.0	14.5	15.0	15.4	15.8	16.2	16.6	16.9	17.2	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.3	19.5
20.5	12.4	13.1	13.8	14.4	14.9	15.4	15.8	16.2	16.6	17.0	17.3	17.6	17.9	18.2	18.5	18.8	19.0	19.3	19.5	19.8	20.0
21.0	12.7	13.5	14.1	14.7	15.2	15.7	16.2	16.6	17.0	17.4	17.7	18.1	18.4	18.7	19.0	19.2	19.5	19.8	20.0	20.2	20.5
21.5	13.0	13.8	14.4	15.1	15.6	16.1	16.6	17.0	17.4	17.8	18.1	18.5	18.8	19.1	19.4	19.7	20.0	20.2	20.5	20.7	20.9
22.0	13.3	14.1	14.8	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.6	18.9	19.2	19.6	19.9	20.1	20.4	20.7	20.9	21.2	21.4
22.5	13.6	14.4	15.1	15.8	16.3	16.9	17.3	17.8	18.2	18.6	19.0	19.3	19.7	20.0	20.3	20.6	20.9	21.2	21.4	21.7	21.9
23.0	13.9	14.7	15.4	16.1	16.7	17.2	17.7	18.2	18.6	19.0	19.4	19.8	20.1	20.4	20.8	21.1	21.4	21.6	21.9	22.2	22.4
23.5	14.2	15.0	15.8	16.4	17.0	17.6	18.1	18.6	19.0	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.1	22.4	22.6	22.9
24.0	14.5	15.4	16.1	16.8	17.4	18.0	18.5	19.0	19.4	19.8	20.2	20.6	21.0	21.3	21.7	22.0	22.3	22.6	22.8	23.1	23.4
24.5	14.8	15.7	16.4	17.1	17.8	18.3	18.9	19.4	19.8	20.3	20.7	21.1	21.4	21.8	22.1	22.4	22.7	23.0	23.3	23.6	23.9
25.0	15.1	16.0	16.8	17.5	18.1	18.7	19.3	19.8	20.2	20.7	21.1	21.5	21.9	22.2	22.6	22.9	23.2	23.5	23.8	24.1	24.4
25.5	15.4	16.3	17.1	17.8	18.5	19.1	19.6	20.1	20.6	21.1	21.5	21.9	22.3	22.7	23.0	23.3	23.7	24.0	24.3	24.6	24.8
26.0	15.7	16.6	17.4	18.2	18.8	19.5	20.0	20.5	21.0	21.5	21.9	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.8	25.0	25.3
26.5	16.0	16.9	17.8	18.5	19.2	19.8	20.4	20.9	21.4	21.9	22.3	22.8	23.2	23.5	23.9	24.3	24.6	24.9	25.2	25.5	25.8
27.0	16.3	17.2	18.1	18.9	19.6	20.2	20.8	21.3	21.8	22.3	22.8	23.2	23.6	24.0	24.4	24.7	25.1	25.4	25.7	26.0	26.3
27.5	16.6	17.6	18.4	19.2	19.9	20.6	21.2	21.7	22.2	22.7	23.2	23.6	24.0	24.4	24.8	25.2	25.5	25.9	26.2	26.5	26.8
28.0	16.9	17.9	18.8	19.6	20.3	20.9	21.5	22.1	22.6	23.1	23.6	24.0	24.5	24.9	25.3	25.6	26.0	26.3	26.7	27.0	27.3
28.5	17.2	18.2	19.1	19.9	20.6	21.3	21.9	22.5	23.0	23.5	24.0	24.5	24.9	25.3	25.7	26.1	26.4	26.8	27.1	27.4	27.8
29.0	17.5	18.5	19.4	20.3	21.0	21.7	22.3	22.9	23.4	24.0	24.4	24.9	25.3	25.8	26.2	26.5	26.9	27.3	27.6	27.9	28.2
29.5	17.8	18.8	19.8	20.6	21.4	22.0	22.7	23.3	23.8	24.4	24.9	25.3	25.8	26.2	26.6	27.0	27.4	27.7	28.1	28.4	28.7
30.0	18.1	19.1	20.1	20.9	21.7	22.4	23.1	23.7	24.2	24.8	25.3	25.8	26.2	26.6	27.1	27.5	27.8	28.2	28.6	28.9	29.2
30.5	18.3	19.5	20.4	21.3	22.1	22.8	23.5	24.1	24.6	25.2	25.7	26.2	26.6	27.1	27.5	27.9	28.3	28.7	29.0	29.4	29.7
31.0	18.6	19.8	20.8	21.6	22.4	23.2	23.8	24.5	25.0	25.6	26.1	26.6	27.1	27.5	28.0	28.4	28.8	29.1	29.5	29.9	30.2
31.5	18.9	20.1	21.1	22.0	22.8	23.5	24.2	24.9	25.4	26.0	26.5	27.0	27.5	28.0	28.4	28.8	29.2	29.6	30.0	30.3	30.7
32.0	19.2	20.4	21.4	22.3	23.1	23.9	24.6	25.2	25.8	26.4	27.0	27.5	27.9	28.4	28.9	29.3	29.7	30.1	30.5	30.8	31.2
32.5	19.5	20.7	21.7	22.7	23.5	24.3	25.0	25.6	26.2	26.8	27.4	27.9	28.4	28.9	29.3	29.7	30.1	30.5	30.9	31.3	31.7
33.0	19.8	21.0	22.1	23.0	23.9	24.6	25.4	26.0	26.7	27.2	27.8	28.3	28.8	29.3	29.8	30.2	30.6	31.0	31.4	31.8	32.1
33.5	20.1	21.3	22.4	23.4	24.2	25.0	25.7	26.4	27.1	27.6	28.2	28.7	29.3	29.7	30.2	30.6	31.1	31.5	31.9	32.3	32.6
34.0	20.4	21.7	22.7	23.7	24.6	25.4	26.1	26.8	27.5	28.1	28.6	29.2	29.7	30.2	30.6	31.1	31.5	31.9	32.3	32.7	33.1
34.5	20.7	22.0	23.1	24.0	24.9	25.7	26.5	27.2	27.9	28.5	29.0	29.6	30.1	30.6	31.1	31.6	32.0	32.4	32.8	33.2	33.6
35.0	21.0	22.3	23.4	24.4	25.3	26.1	26.9	27.6	28.3	28.9	29.5	30.0	30.6	31.1	31.5	32.0	32.5	32.9	33.3	33.7	34.1
35.5	21.3	22.6	23.7	24.7	25.6	26.5	27.3	28.0	28.7	29.3	29.9	30.4	31.0	31.5	32.0	32.5	32.9	33.4	33.8	34.2	34.6
36.0	21.6	22.9	24.1	25.1	26.0	26.9	27.6	28.4	29.1	29.7	30.3	30.9	31.4	31.9	32.4	32.9	33.4	33.8	34.2	34.7	35.1
36.5	21.9	23.2	24.4	25.4	26.4	27.2	28.0	28.8	29.5	30.1	30.7	31.3	31.9	32.4	32.9	33.4	33.8	34.3	34.7	35.1	35.5
37.0	22.2	23.5	24.7	25.8	26.7	27.6	28.4	29.1	29.9	30.5	31.1	31.7	32.3	32.8	33.3	33.8	34.3	34.8	35.2	35.6	36.0
37.5	22.5	23.8	25.0	26.1	27.1	28.0	28.8	29.5	30.3	30.9	31.6	32.2	32.7	33.3	33.8	34.3	34.8	35.2	35.7	36.1	36.5
38.0	22.8	24.2	25.4	26.5	27.4	28.3	29.2	29.9	30.7	31.3	32.0	32.6	33.2	33.7	34.2	34.7	35.2	35.7	36.1	36.6	37.0
38.5	23.1	24.5	25.7	26.8	27.8	28.7	29.5	30.3	31.1	31.7	32.4	33.0	33.6	34.2	34.7	35.2	35.7	36.2	36.6	37.1	37.5
39.0	23.4	24.8	26.0	27.1	28.1	29.1	29.9	30.7	31.5	32.1	32.8	33.4	34.0	34.6	35.1	35.7	36.2	36.6	37.1	37.5	38.0
39.5	23.7	25.1	26.4	27.5	28.5	29.4	30.3	31.1	31.9	32.6	33.2	33.9	34.5	35.0	35.6	36.1	36.6	37.1	37.6	38.0	38.5
40.0	24.0	25.4	26.7	27.8	28.9	29.8	30.7	31.5	32.2	33.0	33.6	34.3	34.9	35.5	36.0	36.6	37.1	37.6	38.0	38.5	38.9
40.5	24.2	25.7	27.0	28.2	29.2	30.2	31.1	31.9	32.6	33.4	34.1	34.7	35.3	35.9	36.5	37.0	37.5	38.0	38.5	39.0	39.4
41.0	24.5	26.0	27.3	28.5	29.6	30.5	31.4	32.3	33.0	33.8	34.5	35.1	35.8	36.4	36.9	37.5	38.0	38.5	39.0	39.5	39.9
41.5	24.8	26.3	27.7	28.9	29.9	30.9	31.8	32.7	33.4	34.2	34.9	35.6	36.2	36.8	37.4	37.9	38.5	39.0	39.5	39.9	40.4
42.0	25.1	26.7	28.0	29.2	30.3	31.3	32.2	33.0	33.8	34.6	35.3	36.0	36.6	37.2	37.8	38.4	38.9	39.4	39.9	40.4	40.9
42.5	25.4	27.0	28.3	29.5	30.6	31.6	32.6	33.4	34.2	35.0	35.7	36.4	37.1	37.7	38.3	38.8	39.4	39.9	40.4	40.9	41.4
43.0	25.7	27.3	28.6	29.9	31.0	32.0	32.9	33.8	34.6	35.4	36.1	36.8	37.5	38.1	38.7	39.3	39.8	40.4	40.9	41.4	41.9
43.5	26.0	27.6	29.0	30.2	31.3	32.4	33.3	34.2	35.0	35.8	36.6	37.3	37.9	38.6	39.2	39.7	40.3	40.8	41.4	41.9	42.4
44.0	26.3	27.9	29.3	30.6	31.7	32.7	33.7	34.6	35.4	36.2	37.0	37.7	38.4	39.0	39.6	40.2	40.8	41.3	41.8	42.3	42.8
44.5	26.6	28.2	29.6	30.9	32.1	33.1	34.1	35.0	35.8	36.6	37.4	38.1	38.8	39.4	40.1	40.7	41.2	41.8	42.3	42.8	43.3
45.0	26.9	28.5	30.0	31.2	32.4	33.5	34.5	35.4	36.2	37.0	37.8	38.5	39.2	39.9	40.5	41.1	41.7	42.2	42.8	43.3	43.8
45.5	27.2	28.8	30.3	31.6	32.8	33.8	34.8	35.8	36.6	37.5	38.2	39.0	39.7	40.3	41.0	41.6	42.2	42.7	43.3	43.8	44.3
46.0	27.5	29.1	30.6	31.9	33.1	34.2	35.2	36.2	37.0	37.9	38.6	39.4	40.1	40.8	41.4	42.0	42.6	43.2	43.7	44.3	44.8
46.5	27.8	29.4	30.9	32.3	33.5	34.6	35.6	36.5	37.4	38.3	39.1	39.8	40.5	41.2	41.9	42.5	43.1	43.7	44.2	44.7	45.3
47.0	28.0	29.8	31.3	32.6	33.8	34.9	36.0	36.9	37.8	38.7	39.5	40.2	41.0	41.6	42.3	42.9	43.5	44.1	44.7	45.2	45.8
47.5	28.3	30.1	31.6	32.9	34.2	35.3	36.4	37.3	38.2	39.1	39.9	40.7	41.4	42.1	42.7	43.4	44.0	44.6	45.2	45.7	46.2
48.0	28.6	30.4	31.9	33.3	34.5	35.7	36.7	37.7	38.6	39.5	40.3	41.1	41.8	42.5	43.2	43.8	44.5	45.1	45.6	46.2	46.7
48.5	28.9	30.7	32.2	33.6	34.9	36.0	37.1	38.1	39.0	39.9	40.7	41.5	42.2	43.0	43.6	44.3	44.9	45.5	46.1	46.7	47.2
49.0	29.2	31.0	32.6	34.0	35.2	36.4	37.5	38.5	39.4	40.3	41.1	41.9	42.7	43.4	44.1	44.7	45.4	46.0	46.6	47.1	47.7
49.5	29.5	31.3	32.9	34.3	35.6	36.8	37.9	38.9	39.8	40.7	41.6	42.4	43.1	43.8	44.5	45.2	45.8	46.5	47.1	47.6	48.2
50.0	29.8	31.6	33.2	34.7	35.9	37.1	38.2	39.3	40.2	41.1	42.0	42.8	43.5	44.3	45.0	45.7	46.3	46.9	47.5	48.1	48.7

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SCARLET OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.1	3.4	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9	4.9
5.5	3.4	3.7	3.9	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4
6.0	3.7	4.0	4.3	4.5	4.6	4.8	4.9	5.1	5.2	5.2	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.0	4.3	4.6	4.8	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.3	6.3	6.4	6.4
7.0	4.3	4.7	5.0	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9
7.5	4.6	5.0	5.3	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.7	6.8	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.3	7.4
8.0	4.9	5.3	5.7	5.9	6.2	6.4	6.5	6.7	6.8	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.8	7.9
8.5	5.2	5.6	6.0	6.3	6.5	6.8	6.9	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3	8.4
9.0	5.5	6.0	6.3	6.6	6.9	7.1	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.9
9.5	5.8	6.3	6.7	7.0	7.3	7.5	7.7	7.9	8.1	8.3	8.4	8.5	8.6	8.8	8.9	8.9	9.0	9.1	9.2	9.3	9.3
10.0	6.1	6.6	7.0	7.4	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.8
10.5	6.4	6.9	7.4	7.7	8.0	8.3	8.5	8.8	8.9	9.1	9.3	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3
11.0	6.7	7.2	7.7	8.1	8.4	8.7	8.9	9.2	9.4	9.5	9.7	9.9	10.0	10.1	10.2	10.3	10.5	10.5	10.6	10.7	10.8
11.5	6.9	7.5	8.0	8.4	8.8	9.1	9.3	9.6	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3
12.0	7.2	7.9	8.4	8.8	9.1	9.5	9.7	10.0	10.2	10.4	10.6	10.7	10.9	11.0	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	7.5	8.2	8.7	9.1	9.5	9.8	10.1	10.4	10.6	10.8	11.0	11.2	11.3	11.5	11.6	11.7	11.9	12.0	12.1	12.2	12.3
13.0	7.8	8.5	9.0	9.5	9.9	10.2	10.5	10.8	11.0	11.2	11.4	11.6	11.8	11.9	12.1	12.2	12.3	12.5	12.6	12.7	12.8
13.5	8.1	8.8	9.4	9.8	10.2	10.6	10.9	11.2	11.4	11.7	11.9	12.0	12.2	12.4	12.5	12.7	12.8	12.9	13.0	13.2	13.3
14.0	8.4	9.1	9.7	10.2	10.6	11.0	11.3	11.6	11.8	12.1	12.3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.5	13.6	13.7
14.5	8.6	9.4	10.0	10.5	11.0	11.4	11.7	12.0	12.3	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.9	14.0	14.1	14.2
15.0	8.9	9.7	10.3	10.9	11.3	11.7	12.1	12.4	12.7	12.9	13.1	13.4	13.6	13.7	13.9	14.1	14.2	14.3	14.5	14.6	14.7
15.5	9.2	10.0	10.7	11.2	11.7	12.1	12.5	12.8	13.1	13.3	13.6	13.8	14.0	14.2	14.4	14.5	14.7	14.8	15.0	15.1	15.2
16.0	9.5	10.3	11.0	11.6	12.1	12.5	12.9	13.2	13.5	13.7	14.0	14.2	14.4	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.7
16.5	9.7	10.6	11.3	11.9	12.4	12.9	13.2	13.6	13.9	14.2	14.4	14.7	14.9	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.2
17.0	10.0	10.9	11.6	12.3	12.8	13.2	13.6	14.0	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.9	16.1	16.2	16.4	16.5	16.7
17.5	10.3	11.2	12.0	12.6	13.1	13.6	14.0	14.4	14.7	15.0	15.3	15.5	15.8	16.0	16.2	16.4	16.5	16.7	16.9	17.0	17.2
18.0	10.6	11.5	12.3	12.9	13.5	14.0	14.4	14.8	15.1	15.4	15.7	16.0	16.2	16.4	16.6	16.8	17.0	17.2	17.3	17.5	17.7
18.5	10.8	11.8	12.6	13.3	13.8	14.3	14.8	15.2	15.5	15.8	16.1	16.4	16.6	16.9	17.1	17.3	17.5	17.7	17.8	18.0	18.1
19.0	11.1	12.1	12.9	13.6	14.2	14.7	15.2	15.6	15.9	16.2	16.5	16.8	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.6
19.5	11.4	12.4	13.2	13.9	14.5	15.1	15.5	15.9	16.3	16.7	17.0	17.2	17.5	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.1
20.0	11.6	12.7	13.6	14.3	14.9	15.4	15.9	16.3	16.7	17.1	17.4	17.7	17.9	18.2	18.4	18.7	18.9	19.1	19.3	19.4	19.6
20.5	11.9	13.0	13.9	14.6	15.3	15.8	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.1
21.0	12.2	13.3	14.2	15.0	15.6	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.1	19.3	19.6	19.8	20.0	20.2	20.4	20.6
21.5	12.4	13.6	14.5	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.6	19.0	19.3	19.5	19.8	20.0	20.3	20.5	20.7	20.9	21.1
22.0	12.7	13.9	14.8	15.6	16.3	16.9	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.5	20.7	20.9	21.2	21.4	21.6
22.5	12.9	14.1	15.1	15.9	16.6	17.3	17.8	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.7	20.9	21.2	21.4	21.6	21.8	22.0
23.0	13.2	14.4	15.4	16.3	17.0	17.6	18.2	18.7	19.1	19.5	19.9	20.2	20.6	20.9	21.1	21.4	21.6	21.9	22.1	22.3	22.5
23.5	13.5	14.7	15.7	16.6	17.3	18.0	18.5	19.0	19.5	19.9	20.3	20.7	21.0	21.3	21.6	21.9	22.1	22.4	22.6	22.8	23.0
24.0	13.7	15.0	16.0	16.9	17.7	18.3	18.9	19.4	19.9	20.3	20.7	21.1	21.4	21.7	22.0	22.3	22.6	22.8	23.1	23.3	23.5
24.5	14.0	15.3	16.4	17.2	18.0	18.7	19.3	19.8	20.3	20.7	21.1	21.5	21.9	22.2	22.5	22.8	23.0	23.3	23.5	23.8	24.0
25.0	14.2	15.6	16.7	17.6	18.4	19.0	19.7	20.2	20.7	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.5	23.8	24.0	24.2	24.5
25.5	14.5	15.8	17.0	17.9	18.7	19.4	20.0	20.6	21.1	21.5	22.0	22.3	22.7	23.1	23.4	23.7	24.0	24.2	24.5	24.7	25.0
26.0	14.7	16.1	17.3	18.2	19.0	19.8	20.4	21.0	21.5	21.9	22.4	22.8	23.1	23.5	23.8	24.1	24.4	24.7	25.0	25.2	25.4
26.5	15.0	16.4	17.6	18.5	19.4	20.1	20.8	21.3	21.9	22.3	22.8	23.2	23.6	23.9	24.3	24.6	24.9	25.2	25.4	25.7	25.9
27.0	15.2	16.7	17.9	18.9	19.7	20.5	21.1	21.7	22.3	22.7	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.6	25.9	26.2	26.4
27.5	15.5	16.9	18.2	19.2	20.0	20.8	21.5	22.1	22.6	23.1	23.6	24.0	24.4	24.8	25.1	25.5	25.8	26.1	26.4	26.6	26.9
28.0	15.7	17.2	18.5	19.5	20.4	21.2	21.8	22.5	23.0	23.5	24.0	24.4	24.9	25.2	25.6	25.9	26.2	26.6	26.8	27.1	27.4
28.5	16.0	17.5	18.8	19.8	20.7	21.5	22.2	22.8	23.4	23.9	24.4	24.9	25.3	25.7	26.0	26.4	26.7	27.0	27.3	27.6	27.9
29.0	16.2	17.8	19.0	20.1	21.0	21.9	22.6	23.2	23.8	24.3	24.8	25.3	25.7	26.1	26.5	26.8	27.2	27.5	27.8	28.1	28.4
29.5	16.4	18.0	19.3	20.4	21.4	22.2	22.9	23.6	24.2	24.7	25.2	25.7	26.1	26.5	26.9	27.3	27.6	27.9	28.3	28.6	28.8
30.0	16.7	18.3	19.6	20.8	21.7	22.6	23.3	24.0	24.6	25.1	25.6	26.1	26.6	27.0	27.4	27.7	28.1	28.4	28.7	29.0	29.3
30.5	16.9	18.6	19.9	21.1	22.0	22.9	23.7	24.3	25.0	25.5	26.0	26.5	27.0	27.4	27.8	28.2	28.5	28.9	29.2	29.5	29.8
31.0	17.1	18.8	20.2	21.4	22.4	23.2	24.0	24.7	25.3	25.9	26.4	26.9	27.4	27.8	28.2	28.6	29.0	29.3	29.7	30.0	30.3
31.5	17.4	19.1	20.5	21.7	22.7	23.6	24.4	25.1	25.7	26.3	26.9	27.4	27.8	28.3	28.7	29.1	29.4	29.8	30.1	30.5	30.8
32.0	17.6	19.4	20.8	22.0	23.0	23.9	24.7	25.4	26.1	26.7	27.3	27.8	28.2	28.7	29.1	29.5	29.9	30.3	30.6	30.9	31.3
32.5	17.9	19.6	21.1	22.3	23.3	24.3	25.1	25.8	26.5	27.1	27.7	28.2	28.7	29.1	29.6	30.0	30.4	30.7	31.1	31.4	31.7
33.0	18.1	19.9	21.4	22.6	23.7	24.6	25.4	26.2	26.9	27.5	28.1	28.6	29.1	29.6	30.0	30.4	30.8	31.2	31.5	31.9	32.2
33.5	18.3	20.2	21.6	22.9	24.0	24.9	25.8	26.6	27.2	27.9	28.5	29.0	29.5	30.0	30.4	30.9	31.3	31.7	32.0	32.4	32.7
34.0	18.5	20.4	21.9	23.2	24.3	25.3	26.1	26.9	27.6	28.3	28.9	29.4	29.9	30.4	30.9	31.3	31.7	32.1	32.5	32.8	33.2
34.5	18.8	20.7	22.2	23.5	24.6	25.6	26.5	27.3	28.0	28.7	29.3	29.8	30.4	30.8	31.3	31.8	32.2	32.6	33.0	33.3	33.7
35.0	19.0	20.9	22.5	23.8	25.0	26.0	26.8	27.6	28.4	29.0	29.7	30.2	30.8	31.3	31.7	32.2	32.6	33.0	33.4	33.8	34.2
35.5	19.2	21.2	22.8	24.1	25.3	26.3	27.2	28.0	28.8	29.4	30.1	30.6	31.2	31.7	32.2	32.6	33.1	33.5	33.9	34.3	34.6
36.0	19.4	21.4	23.1	24.4	25.6	26.6	27.5	28.4	29.1	29.8	30.5	31.1	31.6	32.1	32.6	33.1	33.5	34.0	34.4	34.7	35.1
36.5	19.7	21.7	23.3	24.7	25.9	27.0	27.9	28.7	29.5	30.2	30.9	31.5	32.0	32.6	33.1	33.5	34.0	34.4	34.8	35.2	35.6
37.0	19.9	21.9	23.6	25.0	26.2	27.3	28.2	29.1	29.9	30.6	31.2	31.9	32.4	33.0	33.5	34.0	34.4	34.9	35.3	35.7	36.1
37.5	20.1	22.2	23.9	25.3	26.5	27.6	28.6	29.5	30.2	31.0	31.6	32.3	32.9	33.4	33.9	34.4	34.9	35.3	35.8	36.2	36.6
38.0	20.3	22.4	24.2	25.6	26.9	28.0	28.9	29.8	30.6	31.4	32.0	32.7	33.3	33.8	34.4	34.9	35.3	35.8	36.2	36.6	37.1
38.5	20.5	22.7	24.4	25.9	27.2	28.3	29.3	30.2	31.0	31.7	32.4	33.1	33.7	34.3	34.8	35.3	35.8	36.3	36.7	37.1	37.5
39.0	20.8	22.9	24.7	26.2	27.5	28.6	29.6	30.5	31.4	32.1	32.8	33.5	34.1	34.7	35.2	35.7	36.2	36.7	37.2	37.6	38.0
39.5	21.0	23.2	25.0	26.5	27.8	28.9	30.0	30.9	31.7	32.5	33.2	33.9	34.5	35.1	35.7	36.2	36.7	37.2	37.6	38.1	38.5
40.0	21.2	23.4	25.2	26.8	28.1	29.3	30.3	31.2	32.1	32.9	33.6	34.3	34.9	35.5	36.1	36.6	37.1	37.6	38.1	38.5	39.0
40.5	21.4	23.7	25.5	27.1	28.4	29.6	30.6	31.6	32.5	33.3	34.0	34.7	35.3	35.9	36.5	37.1	37.6	38.1	38.6	39.0	39.5
41.0	21.6	23.9	25.8	27.3	28.7	29.9	31.0	31.9	32.8	33.6	34.4	35.1	35.7	36.4	37.0	37.5	38.0	38.5	39.0	39.5	39.9
41.5	21.8	24.1	26.0	27.6	29.0	30.2	31.3	32.3	33.2	34.0	34.8	35.5	36.2	36.8	37.4	37.9	38.5	39.0	39.5	40.0	40.4
42.0	22.0	24.4	26.3	27.9	29.3	30.6	31.7	32.7	33.6	34.4	35.2	35.9	36.6	37.2	37.8	38.4	38.9	39.5	40.0	40.4	40.9
42.5	22.2	24.6	26.6	28.2	29.6	30.9	32.0	33.0	33.9	34.8	35.6	36.3	37.0	37.6	38.2	38.8	39.4	39.9	40.4	40.9	41.4
43.0	22.4	24.9	26.8	28.5	29.9	31.2	32.3	33.4	34.3	35.1	35.9	36.7	37.4	38.0	38.7	39.3	39.8	40.4	40.9	41.4	41.9
43.5	22.7	25.1	27.1	28.8	30.2	31.5	32.7	33.7	34.6	35.5	36.3	37.1	37.8	38.5	39.1	39.7	40.3	40.8	41.3	41.9	42.3
44.0	22.9	25.3	27.3	29.1	30.5	31.8	33.0	34.1	35.0	35.9	36.7	37.5	38.2	38.9	39.5	40.1	40.7	41.3	41.8	42.3	42.8
44.5	23.1	25.6	27.6	29.3	30.8	32.2	33.3	34.4	35.4	36.3	37.1	37.9	38.6	39.3	40.0	40.6	41.2	41.7	42.3	42.8	43.3
45.0	23.3	25.8	27.9	29.6	31.1	32.5	33.7	34.7	35.7	36.6	37.5	38.3	39.0	39.7	40.4	41.0	41.6	42.2	42.7	43.3	43.8
45.5	23.5	26.0	28.1	29.9	31.4	32.8	34.0	35.1	36.1	37.0	37.9	38.7	39.4	40.1	40.8	41.4	42.1	42.6	43.2	43.7	44.3
46.0	23.7	26.2	28.4	30.2	31.7	33.1	34.3	35.4	36.4	37.4	38.3	39.1	39.8	40.5	41.2	41.9	42.5	43.1	43.7	44.2	44.7
46.5	23.9	26.5	28.6	30.4	32.0	33.4	34.7	35.8	36.8	37.8	38.6	39.5	40.2	41.0	41.7	42.3	42.9	43.5	44.1	44.7	45.2
47.0	24.1	26.7	28.9	30.7	32.3	33.7	35.0	36.1	37.2	38.1	39.0	39.9	40.6	41.4	42.1	42.8	43.4	44.0	44.6	45.2	45.7
47.5	24.2	26.9	29.1	31.0	32.6	34.0	35.3	36.5	37.5	38.5	39.4	40.2	41.0	41.8	42.5	43.2	43.8	44.5	45.1	45.6	46.2
48.0	24.4	27.1	29.4	31.3	32.9	34.3	35.6	36.8	37.9	38.9	39.8	40.6	41.4	42.2	42.9	43.6	44.3	44.9	45.5	46.1	46.7
48.5	24.6	27.4	29.6	31.5	33.2	34.6	36.0	37.1	38.2	39.2	40.2	41.0	41.8	42.6	43.4	44.1	44.7	45.4	46.0	46.6	47.1
49.0	24.8	27.6	29.9	31.8	33.5	35.0	36.3	37.5	38.6	39.6	40.5	41.4	42.2	43.0	43.8	44.5	45.2	45.8	46.4	47.0	47.6
49.5	25.0	27.8	30.1	32.1	33.8	35.3	36.6	37.8	38.9	40.0	40.9	41.8	42.7	43.4	44.2	44.9	45.6	46.3	46.9	47.5	48.1
50.0	25.2	28.0	30.4	32.3	34.1	35.6	36.9	38.2	39.3	40.3	41.3	42.2	43.1	43.9	44.6	45.4	46.0	46.7	47.4	48.0	48.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SOUTHERN RED OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	2.9	3.1	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.8	4.8	4.8	4.9
5.5	3.2	3.5	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.4
6.0	3.5	3.8	4.0	4.2	4.4	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.6	5.6	5.7	5.8	5.8	5.9
6.5	3.8	4.1	4.4	4.6	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.4
7.0	4.1	4.4	4.7	4.9	5.2	5.3	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.7	6.8	6.9
7.5	4.4	4.7	5.0	5.3	5.5	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.3
8.0	4.7	5.1	5.4	5.7	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.8
8.5	5.0	5.4	5.7	6.0	6.3	6.5	6.7	6.9	7.0	7.2	7.3	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3
9.0	5.3	5.7	6.1	6.4	6.6	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8
9.5	5.6	6.0	6.4	6.7	7.0	7.3	7.5	7.7	7.9	8.1	8.2	8.3	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3
10.0	5.9	6.4	6.8	7.1	7.4	7.7	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8
10.5	6.2	6.7	7.1	7.5	7.8	8.0	8.3	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.8	9.9	10.0	10.1	10.2	10.3
11.0	6.5	7.0	7.4	7.8	8.1	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.4	10.5	10.6	10.7	10.8
11.5	6.8	7.3	7.8	8.2	8.5	8.8	9.1	9.3	9.6	9.8	9.9	10.1	10.3	10.4	10.6	10.7	10.8	10.9	11.1	11.2	11.3
12.0	7.1	7.7	8.1	8.5	8.9	9.2	9.5	9.7	10.0	10.2	10.4	10.6	10.7	10.9	11.0	11.2	11.3	11.4	11.5	11.7	11.8
12.5	7.4	8.0	8.5	8.9	9.3	9.6	9.9	10.2	10.4	10.6	10.8	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.0	12.1	12.2
13.0	7.7	8.3	8.8	9.3	9.7	10.0	10.3	10.6	10.8	11.0	11.3	11.5	11.6	11.8	12.0	12.1	12.2	12.4	12.5	12.6	12.7
13.5	8.0	8.6	9.2	9.6	10.0	10.4	10.7	11.0	11.2	11.5	11.7	11.9	12.1	12.3	12.4	12.6	12.7	12.9	13.0	13.1	13.2
14.0	8.3	9.0	9.5	10.0	10.4	10.8	11.1	11.4	11.7	11.9	12.1	12.3	12.5	12.7	12.9	13.0	13.2	13.3	13.5	13.6	13.7
14.5	8.6	9.3	9.9	10.4	10.8	11.2	11.5	11.8	12.1	12.3	12.6	12.8	13.0	13.2	13.4	13.5	13.7	13.8	14.0	14.1	14.2
15.0	8.9	9.6	10.2	10.7	11.2	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.1	14.3	14.4	14.6	14.7
15.5	9.2	10.0	10.6	11.1	11.6	12.0	12.3	12.6	12.9	13.2	13.5	13.7	13.9	14.1	14.3	14.5	14.6	14.8	14.9	15.1	15.2
16.0	9.5	10.3	10.9	11.5	11.9	12.3	12.7	13.1	13.4	13.6	13.9	14.1	14.3	14.6	14.7	14.9	15.1	15.3	15.4	15.5	15.7
16.5	9.8	10.6	11.3	11.8	12.3	12.7	13.1	13.5	13.8	14.1	14.3	14.6	14.8	15.0	15.2	15.4	15.6	15.7	15.9	16.0	16.2
17.0	10.1	10.9	11.6	12.2	12.7	13.1	13.5	13.9	14.2	14.5	14.8	15.0	15.3	15.5	15.7	15.9	16.1	16.3	16.5	16.7	16.9	17.0	17.2
17.5	10.4	11.3	12.0	12.6	13.1	13.5	13.9	14.3	14.6	14.9	15.2	15.5	15.7	15.9	16.2	16.4	16.6	16.8	17.0	17.2	17.3	17.5	17.7
18.0	10.7	11.6	12.3	12.9	13.5	13.9	14.3	14.7	15.1	15.4	15.7	15.9	16.2	16.4	16.6	16.8	17.1	17.3	17.5	17.7	17.8	18.0	18.1
18.5	11.1	11.9	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.8	16.1	16.4	16.6	16.8	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.6
19.0	11.4	12.3	13.0	13.7	14.2	14.7	15.2	15.5	15.9	16.2	16.5	16.8	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.6
19.5	11.7	12.6	13.4	14.0	14.6	15.1	15.6	16.0	16.3	16.7	17.0	17.3	17.5	17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.1
20.0	12.0	12.9	13.7	14.4	15.0	15.5	16.0	16.4	16.8	17.1	17.4	17.7	18.0	18.2	18.5	18.7	18.9	19.1	19.3	19.5	19.6
20.5	12.3	13.3	14.1	14.8	15.4	15.9	16.4	16.8	17.2	17.5	17.9	18.2	18.4	18.7	18.9	19.2	19.4	19.6	19.8	19.9	20.1
21.0	12.6	13.6	14.4	15.2	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.6	18.9	19.2	19.4	19.6	19.8	20.1	20.2	20.4	20.6
21.5	12.9	14.0	14.8	15.5	16.2	16.7	17.2	17.6	18.0	18.4	18.7	19.1	19.3	19.6	19.9	20.1	20.3	20.5	20.7	20.9	21.1
22.0	13.2	14.3	15.2	15.9	16.5	17.1	17.6	18.1	18.5	18.8	19.2	19.5	19.8	20.1	20.3	20.6	20.8	21.0	21.2	21.4	21.6
22.5	13.6	14.6	15.5	16.3	16.9	17.5	18.0	18.5	18.9	19.3	19.6	20.0	20.3	20.5	20.8	21.0	21.3	21.5	21.7	21.9	22.1
23.0	13.9	15.0	15.9	16.6	17.3	17.9	18.4	18.9	19.3	19.7	20.1	20.4	20.7	21.0	21.3	21.5	21.8	22.0	22.2	22.4	22.6
23.5	14.2	15.3	16.2	17.0	17.7	18.3	18.8	19.3	19.8	20.2	20.5	20.9	21.2	21.5	21.7	22.0	22.2	22.5	22.7	22.9	23.1
24.0	14.5	15.6	16.6	17.4	18.1	18.7	19.3	19.7	20.2	20.6	21.0	21.3	21.6	21.9	22.2	22.5	22.7	22.9	23.2	23.4	23.6
24.5	14.8	16.0	17.0	17.8	18.5	19.1	19.7	20.2	20.6	21.0	21.4	21.8	22.1	22.4	22.7	22.9	23.2	23.4	23.6	23.8	24.0
25.0	15.1	16.3	17.3	18.1	18.9	19.5	20.1	20.6	21.0	21.5	21.9	22.2	22.5	22.9	23.1	23.4	23.7	23.9	24.1	24.3	24.5
25.5	15.5	16.7	17.7	18.5	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7	23.0	23.3	23.6	23.9	24.1	24.4	24.6	24.8	25.0
26.0	15.8	17.0	18.0	18.9	19.7	20.3	20.9	21.4	21.9	22.3	22.7	23.1	23.5	23.8	24.1	24.4	24.6	24.9	25.1	25.3	25.5
26.5	16.1	17.4	18.4	19.3	20.0	20.7	21.3	21.9	22.3	22.8	23.2	23.6	23.9	24.2	24.5	24.8	25.1	25.3	25.6	25.8	26.0
27.0	16.4	17.7	18.8	19.7	20.4	21.1	21.7	22.3	22.8	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.6	25.8	26.1	26.3	26.5
27.5	16.7	18.0	19.1	20.0	20.8	21.5	22.1	22.7	23.2	23.7	24.1	24.5	24.8	25.2	25.5	25.8	26.1	26.3	26.6	26.8	27.0
28.0	17.1	18.4	19.5	20.4	21.2	21.9	22.6	23.1	23.6	24.1	24.5	24.9	25.3	25.6	26.0	26.3	26.5	26.8	27.0	27.3	27.5
28.5	17.4	18.7	19.8	20.8	21.6	22.3	23.0	23.6	24.1	24.5	25.0	25.4	25.8	26.1	26.4	26.7	27.0	27.3	27.5	27.8	28.0
29.0	17.7	19.1	20.2	21.2	22.0	22.7	23.4	24.0	24.5	25.0	25.4	25.8	26.2	26.6	26.9	27.2	27.5	27.8	28.0	28.3	28.5
29.5	18.0	19.4	20.6	21.6	22.4	23.1	23.8	24.4	24.9	25.4	25.9	26.3	26.7	27.0	27.4	27.7	28.0	28.2	28.5	28.7	29.0
30.0	18.4	19.8	20.9	21.9	22.8	23.6	24.2	24.8	25.4	25.9	26.3	26.8	27.1	27.5	27.8	28.2	28.4	28.7	29.0	29.2	29.5
30.5	18.7	20.1	21.3	22.3	23.2	24.0	24.6	25.3	25.8	26.3	26.8	27.2	27.6	28.0	28.3	28.6	28.9	29.2	29.5	29.7	30.0
31.0	19.0	20.5	21.7	22.7	23.6	24.4	25.1	25.7	26.2	26.8	27.2	27.7	28.1	28.4	28.8	29.1	29.4	29.7	30.0	30.2	30.5
31.5	19.3	20.8	22.0	23.1	24.0	24.8	25.5	26.1	26.7	27.2	27.7	28.1	28.5	28.9	29.3	29.6	29.9	30.2	30.4	30.7	30.9
32.0	19.7	21.2	22.4	23.5	24.4	25.2	25.9	26.5	27.1	27.6	28.1	28.6	29.0	29.4	29.7	30.1	30.4	30.7	30.9	31.2	31.4
32.5	20.0	21.5	22.8	23.9	24.8	25.6	26.3	27.0	27.6	28.1	28.6	29.0	29.4	29.8	30.2	30.5	30.8	31.1	31.4	31.7	31.9
33.0	20.3	21.9	23.1	24.2	25.2	26.0	26.7	27.4	28.0	28.5	29.0	29.5	29.9	30.3	30.7	31.0	31.3	31.6	31.9	32.2	32.4
33.5	20.6	22.2	23.5	24.6	25.6	26.4	27.2	27.8	28.4	29.0	29.5	29.9	30.4	30.8	31.2	31.5	31.8	32.1	32.4	32.7	32.9
34.0	21.0	22.6	23.9	25.0	26.0	26.8	27.6	28.3	28.9	29.4	29.9	30.4	30.8	31.2	31.6	32.0	32.3	32.6	32.9	33.2	33.4
34.5	21.3	22.9	24.3	25.4	26.4	27.2	28.0	28.7	29.3	29.9	30.4	30.9	31.3	31.7	32.1	32.4	32.8	33.1	33.4	33.6	33.9
35.0	21.6	23.3	24.6	25.8	26.8	27.6	28.4	29.1	29.7	30.3	30.8	31.3	31.8	32.2	32.6	32.9	33.3	33.6	33.9	34.1	34.4
35.5	22.0	23.6	25.0	26.2	27.2	28.1	28.8	29.5	30.2	30.8	31.3	31.8	32.2	32.6	33.0	33.4	33.7	34.1	34.3	34.6	34.9
36.0	22.3	24.0	25.4	26.6	27.6	28.5	29.3	30.0	30.6	31.2	31.7	32.2	32.7	33.1	33.5	33.9	34.2	34.5	34.8	35.1	35.4
36.5	22.6	24.3	25.7	26.9	28.0	28.9	29.7	30.4	31.1	31.7	32.2	32.7	33.2	33.6	34.0	34.3	34.7	35.0	35.3	35.6	35.9
37.0	23.0	24.7	26.1	27.3	28.4	29.3	30.1	30.8	31.5	32.1	32.7	33.2	33.6	34.1	34.5	34.8	35.2	35.5	35.8	36.1	36.4
37.5	23.3	25.0	26.5	27.7	28.8	29.7	30.5	31.3	31.9	32.5	33.1	33.6	34.1	34.5	34.9	35.3	35.7	36.0	36.3	36.6	36.9
38.0	23.6	25.4	26.9	28.1	29.2	30.1	31.0	31.7	32.4	33.0	33.6	34.1	34.6	35.0	35.4	35.8	36.1	36.5	36.8	37.1	37.4
38.5	24.0	25.8	27.2	28.5	29.6	30.5	31.4	32.1	32.8	33.4	34.0	34.5	35.0	35.5	35.9	36.3	36.6	37.0	37.3	37.6	37.9
39.0	24.3	26.1	27.6	28.9	30.0	31.0	31.8	32.6	33.3	33.9	34.5	35.0	35.5	35.9	36.4	36.7	37.1	37.4	37.8	38.1	38.4
39.5	24.6	26.5	28.0	29.3	30.4	31.4	32.2	33.0	33.7	34.3	34.9	35.5	35.9	36.4	36.8	37.2	37.6	37.9	38.3	38.6	38.9
40.0	25.0	26.8	28.4	29.7	30.8	31.8	32.7	33.4	34.2	34.8	35.4	35.9	36.4	36.9	37.3	37.7	38.1	38.4	38.7	39.1	39.3
40.5	25.3	27.2	28.7	30.1	31.2	32.2	33.1	33.9	34.6	35.2	35.8	36.4	36.9	37.3	37.8	38.2	38.6	38.9	39.2	39.5	39.8
41.0	25.6	27.5	29.1	30.5	31.6	32.6	33.5	34.3	35.0	35.7	36.3	36.8	37.3	37.8	38.3	38.7	39.1	39.5	39.9	40.2	40.5	40.8
41.5	26.0	27.9	29.5	30.9	32.0	33.0	33.9	34.8	35.5	36.1	36.7	37.3	37.8	38.3	38.8	39.2	39.6	40.0	40.4	40.7	41.0	41.3
42.0	26.3	28.3	29.9	31.3	32.4	33.5	34.4	35.2	35.9	36.6	37.2	37.8	38.3	38.8	39.2	39.7	40.1	40.5	40.9	41.2	41.5	41.8
42.5	26.6	28.6	30.3	31.6	32.8	33.9	34.8	35.6	36.4	37.0	37.7	38.2	38.8	39.2	39.7	40.2	40.6	41.0	41.3	41.7	42.0	42.3
43.0	27.0	29.0	30.6	32.0	33.2	34.3	35.2	36.1	36.8	37.5	38.1	38.7	39.2	39.7	40.2	40.6	41.1	41.5	41.8	42.2	42.5	42.8
43.5	27.3	29.4	31.0	32.4	33.7	34.7	35.7	36.5	37.3	38.0	38.6	39.2	39.7	40.2	40.6	41.1	41.5	41.9	42.3	42.7	43.0	43.3
44.0	27.7	29.7	31.4	32.8	34.1	35.1	36.1	36.9	37.7	38.4	39.0	39.6	40.2	40.7	41.1	41.5	41.9	42.3	42.7	43.0	43.3	43.8
44.5	28.0	30.1	31.8	33.2	34.5	35.6	36.5	37.4	38.2	38.9	39.5	40.1	40.6	41.1	41.6	42.0	42.4	42.8	43.2	43.5	43.8
45.0	28.4	30.4	32.2	33.6	34.9	36.0	36.9	37.8	38.6	39.3	40.0	40.5	41.1	41.6	42.1	42.5	42.9	43.3	43.6	44.0	44.3
45.5	28.7	30.8	32.6	34.0	35.3	36.4	37.4	38.3	39.0	39.8	40.4	41.0	41.6	42.1	42.5	43.0	43.4	43.8	44.1	44.5	44.8
46.0	29.0	31.2	32.9	34.4	35.7	36.8	37.8	38.7	39.5	40.2	40.9	41.5	42.0	42.5	43.0	43.5	43.9	44.3	44.6	45.0	45.3
46.5	29.4	31.5	33.3	34.8	36.1	37.2	38.2	39.1	39.9	40.7	41.3	41.9	42.5	43.0	43.5	43.9	44.4	44.8	45.1	45.5	45.8
47.0	29.7	31.9	33.7	35.2	36.5	37.7	38.7	39.6	40.4	41.1	41.8	42.4	43.0	43.5	44.0	44.4	44.9	45.2	45.6	46.0	46.3
47.5	30.1	32.3	34.1	35.6	36.9	38.1	39.1	40.0	40.8	41.6	42.3	42.9	43.4	44.0	44.5	44.9	45.3	45.7	46.1	46.4	46.8
48.0	30.4	32.6	34.5	36.0	37.4	38.5	39.5	40.5	41.3	42.0	42.7	43.3	43.9	44.4	44.9	45.4	45.8	46.2	46.6	46.9	47.3
48.5	30.8	33.0	34.9	36.4	37.8	38.9	40.0	40.9	41.7	42.5	43.2	43.8	44.4	44.9	45.4	45.9	46.3	46.7	47.1	47.4	47.8
49.0	31.1	33.4	35.2	36.8	38.2	39.4	40.4	41.3	42.2	42.9	43.6	44.3	44.9	45.4	45.9	46.4	46.8	47.2	47.6	47.9	48.3
49.5	31.5	33.8	35.6	37.2	38.6	39.8	40.8	41.8	42.6	43.4	44.1	44.7	45.3	45.9	46.4	46.8	47.3	47.7	48.1	48.4	48.8
50.0	31.8	34.1	36.0	37.6	39.0	40.2	41.3	42.2	43.1	43.9	44.6	45.2	45.8	46.4	46.9	47.3	47.8	48.2	48.6	48.9	49.2

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR CHERRYBARK OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.8	4.9
5.5	3.7	3.9	4.0	4.1	4.3	4.4	4.5	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4
6.0	4.0	4.2	4.4	4.5	4.6	4.7	4.9	5.0	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.8	5.8	5.9
6.5	4.4	4.6	4.7	4.9	5.0	5.1	5.3	5.4	5.5	5.6	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.4
7.0	4.7	4.9	5.1	5.2	5.4	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.6	6.6	6.7	6.8	6.8
7.5	5.0	5.2	5.4	5.6	5.8	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.3	7.3
8.0	5.3	5.6	5.8	6.0	6.1	6.3	6.4	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.7	7.8
8.5	5.7	5.9	6.1	6.3	6.5	6.7	6.8	7.0	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.1	8.2	8.3
9.0	6.0	6.2	6.5	6.7	6.9	7.1	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8
9.5	6.3	6.6	6.8	7.1	7.3	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3
10.0	6.6	6.9	7.2	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.0	9.1	9.3	9.4	9.5	9.6	9.7	9.8
10.5	6.9	7.2	7.5	7.8	8.0	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.2	10.3
11.0	7.2	7.6	7.9	8.1	8.4	8.6	8.8	9.0	9.1	9.3	9.5	9.6	9.8	9.9	10.0	10.2	10.3	10.4	10.5	10.6	10.7
11.5	7.6	7.9	8.2	8.5	8.7	9.0	9.2	9.4	9.6	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.8	10.9	11.0	11.1	11.2
12.0	7.9	8.2	8.5	8.8	9.1	9.3	9.6	9.8	10.0	10.1	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.3	11.5	11.6	11.7
12.5	8.2	8.6	8.9	9.2	9.5	9.7	9.9	10.2	10.4	10.6	10.7	10.9	11.1	11.2	11.4	11.5	11.7	11.8	11.9	12.1	12.2
13.0	8.5	8.9	9.2	9.5	9.8	10.1	10.3	10.6	10.8	11.0	11.2	11.3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7
13.5	8.8	9.2	9.6	9.9	10.2	10.5	10.7	10.9	11.2	11.4	11.6	11.8	11.9	12.1	12.3	12.4	12.6	12.8	12.9	13.0	13.2
14.0	9.1	9.5	9.9	10.2	10.5	10.8	11.1	11.3	11.6	11.8	12.0	12.2	12.4	12.6	12.7	12.9	13.1	13.2	13.4	13.5	13.7
14.5	9.4	9.8	10.2	10.6	10.9	11.2	11.5	11.7	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.5	13.7	13.8	14.0	14.1
15.0	9.7	10.2	10.6	10.9	11.3	11.6	11.9	12.1	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.2	14.3	14.5	14.6
15.5	10.0	10.5	10.9	11.3	11.6	11.9	12.2	12.5	12.8	13.0	13.2	13.5	13.7	13.9	14.1	14.3	14.4	14.6	14.8	15.0	15.1
16.0	10.3	10.8	11.2	11.6	12.0	12.3	12.6	12.9	13.2	13.4	13.7	13.9	14.1	14.3	14.5	14.7	14.9	15.1	15.3	15.4	15.6
16.5	10.6	11.1	11.6	12.0	12.3	12.7	13.0	13.3	13.6	13.8	14.1	14.3	14.5	14.8	15.0	15.2	15.4	15.6	15.7	15.9	16.1
17.0	10.9	11.4	11.9	12.3	12.7	13.0	13.4	13.7	14.0	14.2	14.5	14.7	15.0	15.2	15.4	15.6	15.8	16.0	16.2	16.4	16.6
17.5	11.2	11.7	12.2	12.6	13.0	13.4	13.7	14.1	14.3	14.6	14.9	15.1	15.4	15.6	15.9	16.1	16.3	16.5	16.7	16.9	17.1
18.0	11.5	12.1	12.5	13.0	13.4	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.8	16.1	16.3	16.5	16.7	16.9	17.1	17.3	17.5
18.5	11.8	12.4	12.9	13.3	13.7	14.1	14.5	14.8	15.1	15.4	15.7	16.0	16.2	16.5	16.7	17.0	17.2	17.4	17.6	17.8	18.0
19.0	12.1	12.7	13.2	13.7	14.1	14.5	14.9	15.2	15.5	15.8	16.1	16.4	16.7	16.9	17.2	17.4	17.7	17.9	18.1	18.3	18.5
19.5	12.4	13.0	13.5	14.0	14.4	14.8	15.2	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.6	17.9	18.1	18.3	18.6	18.8	19.0
20.0	12.7	13.3	13.8	14.3	14.8	15.2	15.6	16.0	16.3	16.6	16.9	17.2	17.5	17.8	18.1	18.3	18.6	18.8	19.0	19.3	19.5
20.5	13.0	13.6	14.2	14.7	15.1	15.6	16.0	16.3	16.7	17.0	17.4	17.7	17.9	18.2	18.5	18.8	19.0	19.3	19.5	19.7	20.0
21.0	13.2	13.9	14.5	15.0	15.5	15.9	16.3	16.7	17.1	17.4	17.8	18.1	18.4	18.7	18.9	19.2	19.5	19.7	20.0	20.2	20.4
21.5	13.5	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.5	17.8	18.2	18.5	18.8	19.1	19.4	19.7	19.9	20.2	20.4	20.7	20.9
22.0	13.8	14.5	15.1	15.7	16.2	16.6	17.1	17.5	17.9	18.2	18.6	18.9	19.2	19.5	19.8	20.1	20.4	20.7	20.9	21.2	21.4
22.5	14.1	14.8	15.4	16.0	16.5	17.0	17.4	17.8	18.2	18.6	19.0	19.3	19.6	20.0	20.3	20.6	20.8	21.1	21.4	21.6	21.9
23.0	14.4	15.1	15.7	16.3	16.8	17.3	17.8	18.2	18.6	19.0	19.4	19.7	20.1	20.4	20.7	21.0	21.3	21.6	21.8	22.1	22.4
23.5	14.6	15.4	16.0	16.6	17.2	17.7	18.2	18.6	19.0	19.4	19.8	20.1	20.5	20.8	21.1	21.4	21.7	22.0	22.3	22.6	22.9
24.0	14.9	15.7	16.4	17.0	17.5	18.0	18.5	19.0	19.4	19.8	20.2	20.5	20.9	21.2	21.6	21.9	22.2	22.5	22.8	23.1	23.3
24.5	15.2	16.0	16.7	17.3	17.9	18.4	18.9	19.3	19.8	20.2	20.6	21.0	21.3	21.7	22.0	22.3	22.6	23.0	23.3	23.5	23.8
25.0	15.5	16.3	17.0	17.6	18.2	18.7	19.2	19.7	20.2	20.6	21.0	21.4	21.7	22.1	22.4	22.8	23.1	23.4	23.7	24.0	24.3
25.5	15.7	16.6	17.3	17.9	18.5	19.1	19.6	20.1	20.5	21.0	21.4	21.8	22.2	22.5	22.9	23.2	23.6	23.9	24.2	24.5	24.8
26.0	16.0	16.8	17.6	18.2	18.9	19.4	19.9	20.4	20.9	21.4	21.8	22.2	22.6	23.0	23.3	23.7	24.0	24.3	24.7	25.0	25.3
26.5	16.3	17.1	17.9	18.6	19.2	19.8	20.3	20.8	21.3	21.7	22.2	22.6	23.0	23.4	23.7	24.1	24.5	24.8	25.1	25.4	25.8
27.0	16.6	17.4	18.2	18.9	19.5	20.1	20.7	21.2	21.7	22.1	22.6	23.0	23.4	23.8	24.2	24.5	24.9	25.3	25.6	25.9	26.2
27.5	16.8	17.7	18.5	19.2	19.8	20.5	21.0	21.5	22.0	22.5	23.0	23.4	23.8	24.2	24.6	25.0	25.4	25.7	26.1	26.4	26.7
28.0	17.1	18.0	18.8	19.5	20.2	20.8	21.4	21.9	22.4	22.9	23.4	23.8	24.2	24.7	25.0	25.4	25.8	26.2	26.5	26.9	27.2
28.5	17.4	18.3	19.1	19.8	20.5	21.1	21.7	22.3	22.8	23.3	23.8	24.2	24.7	25.1	25.5	25.9	26.3	26.6	27.0	27.3	27.7
29.0	17.6	18.6	19.4	20.1	20.8	21.5	22.1	22.6	23.2	23.7	24.2	24.6	25.1	25.5	25.9	26.3	26.7	27.1	27.4	27.8	28.2
29.5	17.9	18.8	19.7	20.5	21.2	21.8	22.4	23.0	23.5	24.1	24.6	25.0	25.5	25.9	26.3	26.8	27.2	27.5	27.9	28.3	28.6
30.0	18.1	19.1	20.0	20.8	21.5	22.1	22.8	23.4	23.9	24.4	24.9	25.4	25.9	26.3	26.8	27.2	27.6	28.0	28.4	28.8	29.1
30.5	18.4	19.4	20.3	21.1	21.8	22.5	23.1	23.7	24.3	24.8	25.3	25.8	26.3	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6
31.0	18.7	19.7	20.6	21.4	22.1	22.8	23.5	24.1	24.7	25.2	25.7	26.2	26.7	27.2	27.6	28.1	28.5	28.9	29.3	29.7	30.1
31.5	18.9	19.9	20.9	21.7	22.4	23.1	23.8	24.4	25.0	25.6	26.1	26.6	27.1	27.6	28.1	28.5	28.9	29.4	29.8	30.2	30.6
32.0	19.2	20.2	21.1	22.0	22.8	23.5	24.2	24.8	25.4	26.0	26.5	27.0	27.5	28.0	28.5	28.9	29.4	29.8	30.2	30.6	31.0
32.5	19.4	20.5	21.4	22.3	23.1	23.8	24.5	25.1	25.8	26.3	26.9	27.4	27.9	28.4	28.9	29.4	29.8	30.3	30.7	31.1	31.5
33.0	19.7	20.8	21.7	22.6	23.4	24.1	24.8	25.5	26.1	26.7	27.3	27.8	28.3	28.9	29.3	29.8	30.3	30.7	31.2	31.6	32.0
33.5	19.9	21.0	22.0	22.9	23.7	24.5	25.2	25.9	26.5	27.1	27.7	28.2	28.8	29.3	29.8	30.3	30.7	31.2	31.6	32.1	32.5
34.0	20.2	21.3	22.3	23.2	24.0	24.8	25.5	26.2	26.8	27.5	28.1	28.6	29.2	29.7	30.2	30.7	31.2	31.6	32.1	32.5	33.0
34.5	20.4	21.6	22.6	23.5	24.3	25.1	25.9	26.6	27.2	27.8	28.4	29.0	29.6	30.1	30.6	31.1	31.6	32.1	32.5	33.0	33.4
35.0	20.7	21.8	22.9	23.8	24.7	25.5	26.2	26.9	27.6	28.2	28.8	29.4	30.0	30.5	31.0	31.6	32.1	32.5	33.0	33.5	33.9
35.5	20.9	22.1	23.1	24.1	25.0	25.8	26.5	27.3	27.9	28.6	29.2	29.8	30.4	30.9	31.5	32.0	32.5	33.0	33.5	33.9	34.4
36.0	21.2	22.4	23.4	24.4	25.3	26.1	26.9	27.6	28.3	29.0	29.6	30.2	30.8	31.3	31.9	32.4	32.9	33.4	33.9	34.4	34.9
36.5	21.4	22.6	23.7	24.7	25.6	26.4	27.2	28.0	28.7	29.3	30.0	30.6	31.2	31.8	32.3	32.9	33.4	33.9	34.4	34.9	35.4
37.0	21.6	22.9	24.0	25.0	25.9	26.7	27.5	28.3	29.0	29.7	30.4	31.0	31.6	32.2	32.7	33.3	33.8	34.3	34.9	35.3	35.8
37.5	21.9	23.1	24.2	25.3	26.2	27.1	27.9	28.6	29.4	30.1	30.7	31.4	32.0	32.6	33.2	33.7	34.3	34.8	35.3	35.8	36.3
38.0	22.1	23.4	24.5	25.6	26.5	27.4	28.2	29.0	29.7	30.4	31.1	31.8	32.4	33.0	33.6	34.2	34.7	35.2	35.8	36.3	36.8
38.5	22.4	23.6	24.8	25.8	26.8	27.7	28.5	29.3	30.1	30.8	31.5	32.2	32.8	33.4	34.0	34.6	35.2	35.7	36.2	36.8	37.3
39.0	22.6	23.9	25.1	26.1	27.1	28.0	28.9	29.7	30.4	31.2	31.9	32.5	33.2	33.8	34.4	35.0	35.6	36.1	36.7	37.2	37.7
39.5	22.8	24.2	25.3	26.4	27.4	28.3	29.2	30.0	30.8	31.5	32.3	32.9	33.6	34.2	34.8	35.4	36.0	36.6	37.2	37.7	38.2
40.0	23.1	24.4	25.6	26.7	27.7	28.6	29.5	30.4	31.1	31.9	32.6	33.3	34.0	34.6	35.3	35.9	36.5	37.0	37.6	38.2	38.7
40.5	23.3	24.7	25.9	27.0	28.0	29.0	29.9	30.7	31.5	32.3	33.0	33.7	34.4	35.0	35.7	36.3	36.9	37.5	38.1	38.6	39.2
41.0	23.5	24.9	26.1	27.3	28.3	29.3	30.2	31.0	31.9	32.6	33.4	34.1	34.8	35.5	36.1	36.7	37.3	37.9	38.5	39.1	39.7
41.5	23.7	25.2	26.4	27.5	28.6	29.6	30.5	31.4	32.2	33.0	33.8	34.5	35.2	35.9	36.5	37.2	37.8	38.4	39.0	39.6	40.1
42.0	24.0	25.4	26.7	27.8	28.9	29.9	30.8	31.7	32.6	33.4	34.1	34.9	35.6	36.3	36.9	37.6	38.2	38.8	39.4	40.0	40.6
42.5	24.2	25.6	26.9	28.1	29.2	30.2	31.2	32.0	32.9	33.7	34.5	35.3	36.0	36.7	37.4	38.0	38.7	39.3	39.9	40.5	41.1
43.0	24.4	25.9	27.2	28.4	29.5	30.5	31.5	32.4	33.3	34.1	34.9	35.6	36.4	37.1	37.8	38.4	39.1	39.7	40.4	41.0	41.6
43.5	24.6	26.1	27.5	28.7	29.8	30.8	31.8	32.7	33.6	34.4	35.2	36.0	36.8	37.5	38.2	38.9	39.5	40.2	40.8	41.4	42.0
44.0	24.9	26.4	27.7	28.9	30.1	31.1	32.1	33.1	33.9	34.8	35.6	36.4	37.2	37.9	38.6	39.3	40.0	40.6	41.3	41.9	42.5
44.5	25.1	26.6	28.0	29.2	30.4	31.4	32.4	33.4	34.3	35.2	36.0	36.8	37.6	38.3	39.0	39.7	40.4	41.1	41.7	42.4	43.0
45.0	25.3	26.8	28.2	29.5	30.6	31.7	32.8	33.7	34.6	35.5	36.4	37.2	37.9	38.7	39.4	40.1	40.8	41.5	42.2	42.8	43.5
45.5	25.5	27.1	28.5	29.8	30.9	32.0	33.1	34.0	35.0	35.9	36.7	37.5	38.3	39.1	39.8	40.6	41.3	42.0	42.6	43.3	43.9
46.0	25.7	27.3	28.7	30.0	31.2	32.3	33.4	34.4	35.3	36.2	37.1	37.9	38.7	39.5	40.3	41.0	41.7	42.4	43.1	43.8	44.4
46.5	26.0	27.6	29.0	30.3	31.5	32.6	33.7	34.7	35.7	36.6	37.5	38.3	39.1	39.9	40.7	41.4	42.1	42.9	43.6	44.2	44.9
47.0	26.2	27.8	29.2	30.6	31.8	32.9	34.0	35.0	36.0	36.9	37.8	38.7	39.5	40.3	41.1	41.8	42.6	43.3	44.0	44.7	45.4
47.5	26.4	28.0	29.5	30.8	32.1	33.2	34.3	35.4	36.3	37.3	38.2	39.1	39.9	40.7	41.5	42.3	43.0	43.7	44.5	45.2	45.8
48.0	26.6	28.2	29.7	31.1	32.4	33.5	34.6	35.7	36.7	37.6	38.5	39.4	40.3	41.1	41.9	42.7	43.5	44.2	44.9	45.6	46.3
48.5	26.8	28.5	30.0	31.4	32.6	33.8	34.9	36.0	37.0	38.0	38.9	39.8	40.7	41.5	42.3	43.1	43.9	44.6	45.4	46.1	46.8
49.0	27.0	28.7	30.2	31.6	32.9	34.1	35.3	36.3	37.4	38.3	39.3	40.2	41.1	41.9	42.7	43.5	44.3	45.1	45.8	46.6	47.3
49.5	27.2	28.9	30.5	31.9	33.2	34.4	35.6	36.7	37.7	38.7	39.6	40.6	41.4	42.3	43.1	44.0	44.7	45.5	46.3	47.0	47.7
50.0	27.4	29.2	30.7	32.1	33.5	34.7	35.9	37.0	38.0	39.0	40.0	40.9	41.8	42.7	43.6	44.4	45.2	46.0	46.7	47.5	48.2

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR LAUREL OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.2	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.9	4.9
5.5	3.5	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4
6.0	3.8	4.0	4.2	4.4	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.7	5.7	5.8	5.8	5.9
6.5	4.1	4.4	4.6	4.8	4.9	5.1	5.2	5.3	5.5	5.6	5.7	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.4
7.0	4.4	4.7	4.9	5.1	5.3	5.5	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.7	6.7	6.8	6.9
7.5	4.7	5.0	5.3	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.3
8.0	5.0	5.3	5.6	5.9	6.1	6.2	6.4	6.6	6.7	6.8	6.9	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.7	7.8	7.8
8.5	5.3	5.7	6.0	6.2	6.4	6.6	6.8	7.0	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3
9.0	5.6	6.0	6.3	6.6	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.0	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8
9.5	5.9	6.3	6.6	6.9	7.2	7.4	7.6	7.8	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3
10.0	6.2	6.7	7.0	7.3	7.5	7.8	8.0	8.2	8.3	8.5	8.7	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8
10.5	6.6	7.0	7.3	7.6	7.9	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.4	9.5	9.6	9.8	9.9	10.0	10.1	10.2	10.3
11.0	6.9	7.3	7.7	8.0	8.3	8.5	8.8	9.0	9.2	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.6	10.7	10.8
11.5	7.2	7.6	8.0	8.3	8.6	8.9	9.2	9.4	9.6	9.8	9.9	10.1	10.3	10.4	10.5	10.7	10.8	10.9	11.0	11.1	11.3
12.0	7.5	7.9	8.3	8.7	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.5	10.7	10.9	11.0	11.1	11.3	11.4	11.5	11.6	11.7
12.5	7.8	8.3	8.7	9.1	9.4	9.7	9.9	10.2	10.4	10.6	10.8	11.0	11.1	11.3	11.5	11.6	11.7	11.9	12.0	12.1	12.2
13.0	8.1	8.6	9.0	9.4	9.7	10.0	10.3	10.6	10.8	11.0	11.2	11.4	11.6	11.7	11.9	12.1	12.2	12.3	12.5	12.6	12.7
13.5	8.3	8.9	9.4	9.8	10.1	10.4	10.7	11.0	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.5	12.7	12.8	12.9	13.1	13.2
14.0	8.6	9.2	9.7	10.1	10.5	10.8	11.1	11.4	11.6	11.9	12.1	12.3	12.5	12.6	12.8	13.0	13.1	13.3	13.4	13.6	13.7
14.5	8.9	9.5	10.0	10.5	10.8	11.2	11.5	11.8	12.0	12.3	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.8	13.9	14.0	14.2
15.0	9.2	9.8	10.4	10.8	11.2	11.6	11.9	12.2	12.4	12.7	12.9	13.1	13.3	13.5	13.7	13.9	14.1	14.2	14.4	14.5	14.7
15.5	9.5	10.2	10.7	11.2	11.6	11.9	12.3	12.6	12.8	13.1	13.3	13.6	13.8	14.0	14.2	14.4	14.5	14.7	14.9	15.0	15.2
16.0	9.8	10.5	11.0	11.5	11.9	12.3	12.6	13.0	13.2	13.5	13.8	14.0	14.2	14.4	14.6	14.8	15.0	15.2	15.3	15.5	15.6
16.5	10.1	10.8	11.4	11.8	12.3	12.7	13.0	13.3	13.6	13.9	14.2	14.4	14.6	14.9	15.1	15.3	15.5	15.6	15.8	16.0	16.1
17.0	10.4	11.1	11.7	12.2	12.6	13.0	13.4	13.7	14.0	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.9	16.1	16.3	16.4	16.6
17.5	10.7	11.4	12.0	12.5	13.0	13.4	13.8	14.1	14.4	14.7	15.0	15.3	15.5	15.8	16.0	16.2	16.4	16.6	16.8	16.9	17.1
18.0	11.0	11.7	12.3	12.9	13.4	13.8	14.2	14.5	14.9	15.2	15.4	15.7	16.0	16.2	16.4	16.6	16.8	17.0	17.2	17.4	17.6
18.5	11.3	12.0	12.7	13.2	13.7	14.2	14.6	14.9	15.3	15.6	15.9	16.1	16.4	16.6	16.9	17.1	17.3	17.5	17.7	17.9	18.1
19.0	11.6	12.3	13.0	13.6	14.1	14.5	14.9	15.3	15.7	16.0	16.3	16.6	16.8	17.1	17.3	17.6	17.8	18.0	18.2	18.4	18.6
19.5	11.8	12.6	13.3	13.9	14.4	14.9	15.3	15.7	16.1	16.4	16.7	17.0	17.3	17.5	17.8	18.0	18.2	18.4	18.7	18.9	19.0
20.0	12.1	12.9	13.6	14.2	14.8	15.3	15.7	16.1	16.5	16.8	17.1	17.4	17.7	18.0	18.2	18.5	18.7	18.9	19.1	19.3	19.5
20.5	12.4	13.3	14.0	14.6	15.1	15.6	16.1	16.5	16.9	17.2	17.5	17.8	18.1	18.4	18.7	18.9	19.2	19.4	19.6	19.8	20.0
21.0	12.7	13.6	14.3	14.9	15.5	16.0	16.4	16.9	17.3	17.6	17.9	18.3	18.6	18.8	19.1	19.4	19.6	19.9	20.1	20.3	20.5
21.5	13.0	13.9	14.6	15.3	15.8	16.4	16.8	17.3	17.6	18.0	18.4	18.7	19.0	19.3	19.6	19.8	20.1	20.3	20.6	20.8	21.0
22.0	13.3	14.2	14.9	15.6	16.2	16.7	17.2	17.6	18.0	18.4	18.8	19.1	19.4	19.7	20.0	20.3	20.5	20.8	21.0	21.3	21.5
22.5	13.5	14.5	15.3	15.9	16.5	17.1	17.6	18.0	18.4	18.8	19.2	19.5	19.9	20.2	20.5	20.7	21.0	21.3	21.5	21.7	22.0
23.0	13.8	14.8	15.6	16.3	16.9	17.4	17.9	18.4	18.8	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.5	21.7	22.0	22.2	22.4
23.5	14.1	15.1	15.9	16.6	17.2	17.8	18.3	18.8	19.2	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.9	22.2	22.4	22.7	22.9
24.0	14.4	15.4	16.2	16.9	17.6	18.2	18.7	19.2	19.6	20.0	20.4	20.8	21.2	21.5	21.8	22.1	22.4	22.7	22.9	23.2	23.4
24.5	14.6	15.7	16.5	17.3	17.9	18.5	19.1	19.6	20.0	20.5	20.9	21.2	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.7	23.9
25.0	14.9	16.0	16.8	17.6	18.3	18.9	19.4	19.9	20.4	20.9	21.3	21.6	22.0	22.4	22.7	23.0	23.3	23.6	23.9	24.1	24.4
25.5	15.2	16.3	17.2	17.9	18.6	19.2	19.8	20.3	20.8	21.3	21.7	22.1	22.4	22.8	23.1	23.5	23.8	24.1	24.3	24.6	24.9
26.0	15.5	16.6	17.5	18.3	19.0	19.6	20.2	20.7	21.2	21.7	22.1	22.5	22.9	23.2	23.6	23.9	24.2	24.5	24.8	25.1	25.4
26.5	15.7	16.9	17.8	18.6	19.3	20.0	20.6	21.1	21.6	22.1	22.5	22.9	23.3	23.7	24.0	24.4	24.7	25.0	25.3	25.6	25.8
27.0	16.0	17.1	18.1	18.9	19.7	20.3	20.9	21.5	22.0	22.5	22.9	23.3	23.7	24.1	24.5	24.8	25.1	25.5	25.8	26.0	26.3
27.5	16.3	17.4	18.4	19.3	20.0	20.7	21.3	21.9	22.4	22.9	23.3	23.7	24.2	24.5	24.9	25.3	25.6	25.9	26.2	26.5	26.8
28.0	16.6	17.7	18.7	19.6	20.3	21.0	21.7	22.2	22.8	23.3	23.7	24.2	24.6	25.0	25.3	25.7	26.1	26.4	26.7	27.0	27.3
28.5	16.8	18.0	19.0	19.9	20.7	21.4	22.0	22.6	23.2	23.7	24.1	24.6	25.0	25.4	25.8	26.2	26.5	26.8	27.2	27.5	27.8
29.0	17.1	18.3	19.3	20.2	21.0	21.7	22.4	23.0	23.5	24.1	24.5	25.0	25.4	25.8	26.2	26.6	27.0	27.3	27.6	28.0	28.3
29.5	17.4	18.6	19.6	20.6	21.4	22.1	22.8	23.4	23.9	24.5	25.0	25.4	25.9	26.3	26.7	27.1	27.4	27.8	28.1	28.4	28.8
30.0	17.6	18.9	20.0	20.9	21.7	22.5	23.1	23.7	24.3	24.9	25.4	25.8	26.3	26.7	27.1	27.5	27.9	28.2	28.6	28.9	29.2
30.5	17.9	19.2	20.3	21.2	22.0	22.8	23.5	24.1	24.7	25.3	25.8	26.3	26.7	27.1	27.6	28.0	28.4	28.8	29.2	29.5	29.9	30.2
31.0	18.2	19.5	20.6	21.5	22.4	23.2	23.9	24.5	25.1	25.7	26.2	26.7	27.1	27.6	28.0	28.4	28.9	29.2	29.6	30.0	30.3	30.7
31.5	18.4	19.8	20.9	21.9	22.7	23.5	24.2	24.9	25.5	26.0	26.6	27.1	27.6	28.0	28.4	28.9	29.3	29.7	30.1	30.5	30.8	31.2
32.0	18.7	20.0	21.2	22.2	23.1	23.9	24.6	25.2	25.9	26.4	27.0	27.5	28.0	28.4	28.9	29.3	29.7	30.2	30.6	30.9	31.3	31.7
32.5	19.0	20.3	21.5	22.5	23.4	24.2	24.9	25.6	26.3	26.8	27.4	27.9	28.4	28.9	29.3	29.7	30.2	30.6	30.9	31.3	31.8	32.1
33.0	19.2	20.6	21.8	22.8	23.7	24.6	25.3	26.0	26.6	27.2	27.8	28.3	28.8	29.3	29.8	30.2	30.6	31.0	31.4	31.8	32.1
33.5	19.5	20.9	22.1	23.1	24.1	24.9	25.7	26.4	27.0	27.6	28.2	28.7	29.2	29.7	30.2	30.6	31.1	31.5	31.9	32.3	32.6
34.0	19.7	21.2	22.4	23.5	24.4	25.2	26.0	26.7	27.4	28.0	28.6	29.2	29.7	30.2	30.6	31.1	31.5	31.9	32.3	32.7	33.1
34.5	20.0	21.4	22.7	23.8	24.7	25.6	26.4	27.1	27.8	28.4	29.0	29.6	30.1	30.6	31.1	31.5	32.0	32.4	32.9	33.3	33.7	34.1
35.0	20.2	21.7	23.0	24.1	25.1	25.9	26.7	27.5	28.2	28.8	29.4	30.0	30.5	31.0	31.5	32.0	32.4	32.9	33.3	33.8	34.2	34.6
35.5	20.5	22.0	23.3	24.4	25.4	26.3	27.1	27.9	28.5	29.2	29.8	30.4	30.9	31.5	32.0	32.4	32.9	33.3	33.8	34.2	34.6	35.0
36.0	20.8	22.3	23.6	24.7	25.7	26.6	27.5	28.2	28.9	29.6	30.2	30.8	31.4	31.9	32.4	32.9	33.3	33.8	34.2	34.6	35.0
36.5	21.0	22.6	23.9	25.0	26.1	27.0	27.8	28.6	29.3	30.0	30.6	31.2	31.8	32.3	32.8	33.3	33.8	34.2	34.7	35.1	35.5
37.0	21.3	22.8	24.2	25.3	26.4	27.3	28.2	29.0	29.7	30.4	31.0	31.6	32.2	32.7	33.3	33.8	34.2	34.7	35.2	35.6	36.0
37.5	21.5	23.1	24.5	25.7	26.7	27.7	28.5	29.3	30.1	30.8	31.4	32.0	32.6	33.2	33.7	34.2	34.7	35.2	35.6	36.1	36.5
38.0	21.8	23.4	24.8	26.0	27.0	28.0	28.9	29.7	30.4	31.1	31.8	32.4	33.0	33.6	34.1	34.7	35.2	35.6	36.1	36.5	37.0
38.5	22.0	23.7	25.1	26.3	27.4	28.3	29.2	30.1	30.8	31.5	32.2	32.8	33.4	34.0	34.6	35.1	35.6	36.1	36.5	37.0	37.5
39.0	22.3	23.9	25.4	26.6	27.7	28.7	29.6	30.4	31.2	31.9	32.6	33.3	33.9	34.4	35.0	35.5	36.1	36.5	37.0	37.5	37.9
39.5	22.5	24.2	25.6	26.9	28.0	29.0	29.9	30.8	31.6	32.3	33.0	33.7	34.3	34.9	35.4	36.0	36.5	37.0	37.5	38.0	38.4
40.0	22.8	24.5	25.9	27.2	28.3	29.4	30.3	31.2	32.0	32.7	33.4	34.1	34.7	35.3	35.9	36.4	37.0	37.5	38.0	38.4	38.9
40.5	23.0	24.7	26.2	27.5	28.7	29.7	30.6	31.5	32.3	33.1	33.8	34.5	35.1	35.7	36.3	36.9	37.4	37.9	38.4	38.9	39.4
41.0	23.3	25.0	26.5	27.8	29.0	30.0	31.0	31.9	32.7	33.5	34.2	34.9	35.5	36.2	36.7	37.3	37.9	38.4	38.9	39.4	39.9
41.5	23.5	25.3	26.8	28.1	29.3	30.4	31.3	32.2	33.1	33.9	34.6	35.3	35.9	36.6	37.2	37.8	38.3	38.8	39.4	39.9	40.3
42.0	23.8	25.6	27.1	28.4	29.6	30.7	31.7	32.6	33.4	34.2	35.0	35.7	36.4	37.0	37.6	38.2	38.8	39.3	39.8	40.3	40.8
42.5	24.0	25.8	27.4	28.7	29.9	31.0	32.0	33.0	33.8	34.6	35.4	36.1	36.8	37.4	38.0	38.6	39.2	39.8	40.3	40.8	41.3
43.0	24.2	26.1	27.7	29.0	30.3	31.4	32.4	33.3	34.2	35.0	35.8	36.5	37.2	37.8	38.5	39.1	39.7	40.2	40.8	41.3	41.8
43.5	24.5	26.3	27.9	29.3	30.6	31.7	32.7	33.7	34.6	35.4	36.2	36.9	37.6	38.3	38.9	39.5	40.1	40.7	41.2	41.8	42.3
44.0	24.7	26.6	28.2	29.6	30.9	32.0	33.1	34.0	34.9	35.8	36.6	37.3	38.0	38.7	39.3	40.0	40.6	41.1	41.7	42.2	42.8
44.5	25.0	26.9	28.5	29.9	31.2	32.4	33.4	34.4	35.3	36.2	37.0	37.7	38.4	39.1	39.8	40.4	41.0	41.6	42.2	42.7	43.2
45.0	25.2	27.1	28.8	30.2	31.5	32.7	33.8	34.8	35.7	36.5	37.3	38.1	38.8	39.5	40.2	40.8	41.5	42.1	42.6	43.2	43.7
45.5	25.4	27.4	29.1	30.5	31.8	33.0	34.1	35.1	36.0	36.9	37.7	38.5	39.3	40.0	40.6	41.3	41.9	42.5	43.1	43.7	44.2
46.0	25.7	27.7	29.4	30.8	32.2	33.4	34.5	35.5	36.4	37.3	38.1	38.9	39.7	40.4	41.1	41.7	42.4	43.0	43.6	44.1	44.7
46.5	25.9	27.9	29.6	31.1	32.5	33.7	34.8	35.8	36.8	37.7	38.5	39.3	40.1	40.8	41.5	42.2	42.8	43.4	44.0	44.6	45.2
47.0	26.1	28.2	29.9	31.4	32.8	34.0	35.1	36.2	37.1	38.1	38.9	39.7	40.5	41.2	41.9	42.6	43.2	43.9	44.5	45.1	45.6
47.5	26.4	28.4	30.2	31.7	33.1	34.3	35.5	36.5	37.5	38.4	39.3	40.1	40.9	41.6	42.4	43.0	43.7	44.3	44.9	45.5	46.1
48.0	26.6	28.7	30.5	32.0	33.4	34.7	35.8	36.9	37.9	38.8	39.7	40.5	41.3	42.1	42.8	43.5	44.1	44.8	45.4	46.0	46.6
48.5	26.8	28.9	30.7	32.3	33.7	35.0	36.2	37.2	38.2	39.2	40.1	40.9	41.7	42.5	43.2	43.9	44.6	45.2	45.9	46.5	47.1
49.0	27.1	29.2	31.0	32.6	34.0	35.3	36.5	37.6	38.6	39.6	40.5	41.3	42.1	42.9	43.6	44.4	45.0	45.7	46.3	47.0	47.6
49.5	27.3	29.5	31.3	32.9	34.3	35.7	36.8	37.9	39.0	39.9	40.9	41.7	42.5	43.3	44.1	44.8	45.5	46.2	46.8	47.4	48.0
50.0	27.5	29.7	31.6	33.2	34.7	36.0	37.2	38.3	39.3	40.3	41.2	42.1	42.9	43.7	44.5	45.2	45.9	46.6	47.3	47.9	48.5

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SWAMP CHESTNUT OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.3	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9
5.5	3.6	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4
6.0	4.0	4.2	4.4	4.6	4.7	4.8	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.8	5.8	5.9	5.9
6.5	4.3	4.5	4.8	4.9	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4
7.0	4.6	4.9	5.1	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.8	6.8	6.9
7.5	4.9	5.2	5.5	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.4
8.0	5.2	5.6	5.8	6.1	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.7	7.7	7.8	7.9
8.5	5.6	5.9	6.2	6.4	6.6	6.8	7.0	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3
9.0	5.9	6.2	6.5	6.8	7.0	7.2	7.4	7.5	7.7	7.8	7.9	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.7	8.8	8.8
9.5	6.2	6.6	6.9	7.2	7.4	7.6	7.8	8.0	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.3
10.0	6.5	6.9	7.2	7.5	7.8	8.0	8.2	8.4	8.5	8.7	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.7	9.8
10.5	6.8	7.2	7.6	7.9	8.1	8.4	8.6	8.8	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3
11.0	7.1	7.6	7.9	8.2	8.5	8.8	9.0	9.2	9.4	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8
11.5	7.4	7.9	8.3	8.6	8.9	9.1	9.4	9.6	9.8	9.9	10.1	10.3	10.4	10.5	10.7	10.8	10.9	11.0	11.1	11.2	11.3
12.0	7.7	8.2	8.6	9.0	9.3	9.5	9.8	10.0	10.2	10.4	10.5	10.7	10.8	11.0	11.1	11.2	11.4	11.5	11.6	11.7	11.8
12.5	8.0	8.5	9.0	9.3	9.6	9.9	10.2	10.4	10.6	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.2	12.3
13.0	8.3	8.9	9.3	9.7	10.0	10.3	10.6	10.8	11.0	11.2	11.4	11.6	11.7	11.9	12.0	12.2	12.3	12.4	12.5	12.6	12.7
13.5	8.6	9.2	9.7	10.0	10.4	10.7	11.0	11.2	11.4	11.6	11.8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.0	13.1	13.2
14.0	8.9	9.5	10.0	10.4	10.8	11.1	11.3	11.6	11.8	12.1	12.3	12.4	12.6	12.8	12.9	13.1	13.2	13.4	13.5	13.6	13.7
14.5	9.2	9.8	10.3	10.8	11.1	11.4	11.7	12.0	12.2	12.5	12.7	12.9	13.1	13.2	13.4	13.5	13.7	13.8	14.0	14.1	14.2
15.0	9.5	10.2	10.7	11.1	11.5	11.8	12.1	12.4	12.7	12.9	13.1	13.3	13.5	13.7	13.8	14.0	14.2	14.3	14.4	14.6	14.7
15.5	9.8	10.5	11.0	11.5	11.9	12.2	12.5	12.8	13.1	13.3	13.5	13.7	13.9	14.1	14.3	14.5	14.6	14.8	14.9	15.1	15.2
16.0	10.1	10.8	11.3	11.8	12.2	12.6	12.9	13.2	13.5	13.7	14.0	14.2	14.4	14.6	14.7	14.9	15.1	15.2	15.4	15.5	15.7
16.5	10.4	11.1	11.7	12.2	12.6	13.0	13.3	13.6	13.9	14.1	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.7	15.9	16.0	16.2
17.0	10.7	11.4	12.0	12.5	12.9	13.3	13.7	14.0	14.3	14.6	14.8	15.0	15.3	15.5	15.7	15.8	16.0	16.2	16.3	16.5	16.7
17.5	11.0	11.7	12.3	12.9	13.3	13.7	14.1	14.4	14.7	15.0	15.2	15.5	15.7	15.9	16.1	16.3	16.5	16.7	16.8	17.0	17.1
18.0	11.3	12.1	12.7	13.2	13.7	14.1	14.5	14.8	15.1	15.4	15.6	15.9	16.1	16.3	16.6	16.8	16.9	17.1	17.3	17.5	17.6
18.5	11.6	12.4	13.0	13.6	14.0	14.5	14.8	15.2	15.5	15.8	16.1	16.3	16.6	16.8	17.0	17.2	17.4	17.6	17.8	17.9	18.1
19.0	11.9	12.7	13.3	13.9	14.4	14.8	15.2	15.6	15.9	16.2	16.5	16.8	17.0	17.2	17.5	17.7	17.9	18.1	18.2	18.4	18.6
19.5	12.2	13.0	13.7	14.2	14.7	15.2	15.6	16.0	16.3	16.6	16.9	17.2	17.4	17.7	17.9	18.1	18.3	18.5	18.7	18.9	19.1
20.0	12.5	13.3	14.0	14.6	15.1	15.6	16.0	16.4	16.7	17.0	17.3	17.6	17.9	18.1	18.4	18.6	18.8	19.0	19.2	19.4	19.6
20.5	12.7	13.6	14.3	14.9	15.5	15.9	16.4	16.7	17.1	17.4	17.7	18.0	18.3	18.6	18.8	19.0	19.3	19.5	19.7	19.9	20.1
21.0	13.0	13.9	14.6	15.3	15.8	16.3	16.7	17.1	17.5	17.8	18.2	18.5	18.7	19.0	19.3	19.5	19.7	19.9	20.1	20.3	20.5
21.5	13.3	14.2	15.0	15.6	16.2	16.7	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.4	19.7	19.9	20.2	20.4	20.6	20.8	21.0
22.0	13.6	14.5	15.3	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.6	19.9	20.1	20.4	20.6	20.9	21.1	21.3	21.5
22.5	13.9	14.8	15.6	16.3	16.9	17.4	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.3	20.6	20.9	21.1	21.3	21.6	21.8	22.0
23.0	14.1	15.1	15.9	16.6	17.2	17.8	18.2	18.7	19.1	19.5	19.8	20.2	20.5	20.8	21.0	21.3	21.6	21.8	22.0	22.3	22.5
23.5	14.4	15.4	16.2	16.9	17.6	18.1	18.6	19.1	19.5	19.9	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.3	22.5	22.7	23.0
24.0	14.7	15.7	16.6	17.3	17.9	18.5	19.0	19.5	19.9	20.3	20.7	21.0	21.3	21.6	21.9	22.2	22.5	22.7	23.0	23.2	23.5
24.5	15.0	16.0	16.9	17.6	18.3	18.8	19.4	19.8	20.3	20.7	21.1	21.4	21.8	22.1	22.4	22.7	22.9	23.2	23.5	23.7	23.9
25.0	15.2	16.3	17.2	17.9	18.6	19.2	19.7	20.2	20.7	21.1	21.5	21.8	22.2	22.5	22.8	23.1	23.4	23.7	23.9	24.2	24.4
25.5	15.5	16.6	17.5	18.3	18.9	19.6	20.1	20.6	21.1	21.5	21.9	22.3	22.6	22.9	23.3	23.6	23.9	24.1	24.4	24.7	24.9
26.0	15.8	16.9	17.8	18.6	19.3	19.9	20.5	21.0	21.5	21.9	22.3	22.7	23.0	23.4	23.7	24.0	24.3	24.6	24.9	25.1	25.4
26.5	16.1	17.2	18.1	18.9	19.6	20.3	20.8	21.4	21.8	22.3	22.7	23.1	23.5	23.8	24.2	24.5	24.8	25.1	25.3	25.6	25.9
27.0	16.3	17.5	18.4	19.2	20.0	20.6	21.2	21.7	22.2	22.7	23.1	23.5	23.9	24.3	24.6	24.9	25.2	25.5	25.8	26.1	26.4
27.5	16.6	17.8	18.7	19.6	20.3	21.0	21.6	22.1	22.6	23.1	23.5	23.9	24.3	24.7	25.0	25.4	25.7	26.0	26.3	26.6	26.8
28.0	16.9	18.0	19.0	19.9	20.7	21.3	21.9	22.5	23.0	23.5	23.9	24.3	24.7	25.1	25.5	25.8	26.1	26.5	26.8	27.1	27.3
28.5	17.1	18.3	19.3	20.2	21.0	21.7	22.3	22.9	23.4	23.9	24.3	24.8	25.2	25.6	25.9	26.3	26.6	26.9	27.2	27.5	27.8
29.0	17.4	18.6	19.6	20.5	21.3	22.0	22.7	23.2	23.8	24.3	24.7	25.2	25.6	26.0	26.4	26.7	27.1	27.4	27.7	28.0	28.3
29.5	17.6	18.9	20.0	20.9	21.7	22.4	23.0	23.6	24.2	24.7	25.1	25.6	26.0	26.4	26.8	27.2	27.5	27.8	28.2	28.5	28.8
30.0	17.9	19.2	20.3	21.2	22.0	22.7	23.4	24.0	24.5	25.1	25.5	26.0	26.4	26.8	27.2	27.6	28.0	28.3	28.6	29.0	29.3
30.5	18.2	19.5	20.6	21.5	22.3	23.1	23.7	24.4	24.9	25.5	26.0	26.4	26.9	27.3	27.7	28.1	28.4	28.8	29.1	29.4	29.8
31.0	18.4	19.7	20.9	21.8	22.7	23.4	24.1	24.7	25.3	25.9	26.4	26.8	27.3	27.7	28.1	28.5	28.9	29.2	29.6	29.9	30.2
31.5	18.7	20.0	21.2	22.1	23.0	23.8	24.5	25.1	25.7	26.2	26.8	27.2	27.7	28.1	28.6	28.9	29.3	29.7	30.0	30.4	30.7
32.0	18.9	20.3	21.5	22.4	23.3	24.1	24.8	25.5	26.1	26.6	27.2	27.7	28.1	28.6	29.0	29.4	29.8	30.2	30.5	30.9	31.2
32.5	19.2	20.6	21.7	22.8	23.7	24.5	25.2	25.8	26.5	27.0	27.6	28.1	28.5	29.0	29.4	29.8	30.2	30.6	31.0	31.3	31.7
33.0	19.4	20.8	22.0	23.1	24.0	24.8	25.5	26.2	26.8	27.4	28.0	28.5	29.0	29.4	29.9	30.3	30.7	31.1	31.5	31.8	32.2
33.5	19.7	21.1	22.3	23.4	24.3	25.1	25.9	26.6	27.2	27.8	28.4	28.9	29.4	29.8	30.3	30.7	31.1	31.5	31.9	32.3	32.6
34.0	19.9	21.4	22.6	23.7	24.6	25.5	26.2	26.9	27.6	28.2	28.8	29.3	29.8	30.3	30.7	31.2	31.6	32.0	32.4	32.8	33.1
34.5	20.2	21.7	22.9	24.0	25.0	25.8	26.6	27.3	28.0	28.6	29.2	29.7	30.2	30.7	31.2	31.6	32.0	32.5	32.9	33.2	33.6
35.0	20.4	21.9	23.2	24.3	25.3	26.2	26.9	27.7	28.3	29.0	29.6	30.1	30.6	31.1	31.6	32.1	32.5	32.9	33.3	33.7	34.1
35.5	20.7	22.2	23.5	24.6	25.6	26.5	27.3	28.0	28.7	29.3	29.9	30.5	31.0	31.5	32.0	32.5	32.9	33.4	33.8	34.2	34.6
36.0	20.9	22.5	23.8	24.9	25.9	26.8	27.6	28.4	29.1	29.7	30.3	30.9	31.5	32.0	32.5	32.9	33.4	33.8	34.3	34.7	35.1
36.5	21.1	22.7	24.1	25.2	26.2	27.2	28.0	28.8	29.5	30.1	30.7	31.3	31.9	32.4	32.9	33.4	33.8	34.3	34.7	35.1	35.5
37.0	21.4	23.0	24.4	25.5	26.6	27.5	28.3	29.1	29.8	30.5	31.1	31.7	32.3	32.8	33.3	33.8	34.3	34.7	35.2	35.6	36.0
37.5	21.6	23.3	24.6	25.8	26.9	27.8	28.7	29.5	30.2	30.9	31.5	32.1	32.7	33.2	33.8	34.3	34.7	35.2	35.7	36.1	36.5
38.0	21.9	23.5	24.9	26.1	27.2	28.2	29.0	29.8	30.6	31.3	31.9	32.5	33.1	33.7	34.2	34.7	35.2	35.7	36.1	36.6	37.0
38.5	22.1	23.8	25.2	26.4	27.5	28.5	29.4	30.2	30.9	31.6	32.3	32.9	33.5	34.1	34.6	35.1	35.6	36.1	36.6	37.0	37.5
39.0	22.3	24.0	25.5	26.7	27.8	28.8	29.7	30.5	31.3	32.0	32.7	33.3	33.9	34.5	35.1	35.6	36.1	36.6	37.0	37.5	37.9
39.5	22.6	24.3	25.8	27.0	28.1	29.1	30.1	30.9	31.7	32.4	33.1	33.7	34.3	34.9	35.5	36.0	36.5	37.0	37.5	38.0	38.4
40.0	22.8	24.6	26.0	27.3	28.5	29.5	30.4	31.3	32.0	32.8	33.5	34.1	34.8	35.3	35.9	36.5	37.0	37.5	38.0	38.4	38.9
40.5	23.0	24.8	26.3	27.6	28.8	29.8	30.7	31.6	32.4	33.2	33.9	34.5	35.2	35.8	36.3	36.9	37.4	37.9	38.4	38.9	39.4
41.0	23.3	25.1	26.6	27.9	29.1	30.1	31.1	32.0	32.8	33.5	34.3	34.9	35.6	36.2	36.8	37.3	37.9	38.4	38.9	39.4	39.9
41.5	23.5	25.3	26.9	28.2	29.4	30.5	31.4	32.3	33.1	33.9	34.6	35.3	36.0	36.6	37.2	37.8	38.3	38.9	39.4	39.9	40.3
42.0	23.7	25.6	27.1	28.5	29.7	30.8	31.8	32.7	33.5	34.3	35.0	35.7	36.4	37.0	37.6	38.2	38.8	39.3	39.8	40.3	40.8
42.5	23.9	25.8	27.4	28.8	30.0	31.1	32.1	33.0	33.9	34.7	35.4	36.1	36.8	37.4	38.1	38.6	39.2	39.8	40.3	40.8	41.3
43.0	24.2	26.1	27.7	29.1	30.3	31.4	32.4	33.4	34.2	35.0	35.8	36.5	37.2	37.9	38.5	39.1	39.7	40.2	40.8	41.3	41.8
43.5	24.4	26.3	28.0	29.4	30.6	31.7	32.8	33.7	34.6	35.4	36.2	36.9	37.6	38.3	38.9	39.5	40.1	40.7	41.2	41.7	42.3
44.0	24.6	26.6	28.2	29.7	30.9	32.1	33.1	34.1	34.9	35.8	36.6	37.3	38.0	38.7	39.3	39.9	40.5	41.1	41.7	42.2	42.7
44.5	24.8	26.8	28.5	29.9	31.2	32.4	33.4	34.4	35.3	36.2	36.9	37.7	38.4	39.1	39.8	40.4	41.0	41.6	42.1	42.7	43.2
45.0	25.1	27.1	28.8	30.2	31.5	32.7	33.8	34.8	35.7	36.5	37.3	38.1	38.8	39.5	40.2	40.8	41.4	42.0	42.6	43.2	43.7
45.5	25.3	27.3	29.0	30.5	31.8	33.0	34.1	35.1	36.0	36.9	37.7	38.5	39.2	39.9	40.6	41.2	41.9	42.5	43.1	43.6	44.2
46.0	25.5	27.5	29.3	30.8	32.1	33.3	34.4	35.4	36.4	37.3	38.1	38.9	39.6	40.3	41.0	41.7	42.3	42.9	43.5	44.1	44.7
46.5	25.7	27.8	29.5	31.1	32.4	33.6	34.8	35.8	36.7	37.6	38.5	39.3	40.0	40.8	41.4	42.1	42.8	43.4	44.0	44.6	45.1
47.0	25.9	28.0	29.8	31.3	32.7	34.0	35.1	36.1	37.1	38.0	38.9	39.7	40.4	41.2	41.9	42.5	43.2	43.8	44.4	45.0	45.6
47.5	26.1	28.3	30.1	31.6	33.0	34.3	35.4	36.5	37.4	38.4	39.2	40.0	40.8	41.6	42.3	43.0	43.6	44.3	44.9	45.5	46.1
48.0	26.3	28.5	30.3	31.9	33.3	34.6	35.7	36.8	37.8	38.7	39.6	40.4	41.2	42.0	42.7	43.4	44.1	44.7	45.4	46.0	46.6
48.5	26.6	28.7	30.6	32.2	33.6	34.9	36.1	37.1	38.2	39.1	40.0	40.8	41.6	42.4	43.1	43.8	44.5	45.2	45.8	46.4	47.1
49.0	26.8	29.0	30.8	32.5	33.9	35.2	36.4	37.5	38.5	39.5	40.4	41.2	42.0	42.8	43.6	44.3	45.0	45.6	46.3	46.9	47.5
49.5	27.0	29.2	31.1	32.7	34.2	35.5	36.7	37.8	38.9	39.8	40.7	41.6	42.4	43.2	44.0	44.7	45.4	46.1	46.7	47.4	48.0
50.0	27.2	29.4	31.3	33.0	34.5	35.8	37.0	38.2	39.2	40.2	41.1	42.0	42.8	43.6	44.4	45.1	45.8	46.5	47.2	47.9	48.5

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR CHINKAPIN OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.5	3.8	3.9	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.9	4.1	4.3	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4
6.0	4.2	4.5	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9
6.5	4.6	4.9	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	4.9	5.2	5.5	5.7	5.8	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9
7.5	5.3	5.6	5.8	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.3	7.4	7.4
8.0	5.6	6.0	6.2	6.5	6.6	6.8	6.9	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	6.0	6.3	6.6	6.8	7.0	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4	8.4
9.0	6.3	6.7	7.0	7.2	7.5	7.6	7.8	7.9	8.0	8.2	8.3	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9	8.9
9.5	6.7	7.1	7.4	7.6	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.4
10.0	7.0	7.4	7.8	8.0	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.3	9.4	9.4	9.5	9.6	9.7	9.7	9.8	9.8	9.9
10.5	7.3	7.8	8.1	8.4	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.3	10.3	10.4
11.0	7.7	8.1	8.5	8.8	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.2	10.3	10.4	10.5	10.5	10.6	10.7	10.8	10.8	10.9
11.5	8.0	8.5	8.9	9.2	9.5	9.7	9.9	10.1	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.4
12.0	8.3	8.9	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.7	11.8	11.9
12.5	8.7	9.2	9.6	10.0	10.3	10.5	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.3
13.0	9.0	9.6	10.0	10.4	10.7	11.0	11.2	11.4	11.6	11.7	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.8
13.5	9.4	9.9	10.4	10.8	11.1	11.4	11.6	11.8	12.0	12.2	12.3	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.3
14.0	9.7	10.3	10.8	11.2	11.5	11.8	12.0	12.2	12.4	12.6	12.8	12.9	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.8
14.5	10.0	10.6	11.1	11.5	11.9	12.2	12.4	12.7	12.9	13.1	13.2	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.2	14.2	14.3
15.0	10.3	11.0	11.5	11.9	12.3	12.6	12.9	13.1	13.3	13.5	13.7	13.8	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8
15.5	10.7	11.3	11.9	12.3	12.7	13.0	13.3	13.5	13.7	13.9	14.1	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3
16.0	11.0	11.7	12.2	12.7	13.1	13.4	13.7	14.0	14.2	14.4	14.6	14.7	14.9	15.0	15.2	15.3	15.4	15.5	15.6	15.7	15.8
16.5	11.3	12.0	12.6	13.1	13.5	13.8	14.1	14.4	14.6	14.8	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.0	16.1	16.2	16.3
17.0	11.7	12.4	13.0	13.5	13.9	14.2	14.5	14.8	15.0	15.3	15.5	15.6	15.8	16.0	16.1	16.2	16.4	16.5	16.6	16.7	16.8
17.5	12.0	12.7	13.3	13.8	14.3	14.6	14.9	15.2	15.5	15.7	15.9	16.1	16.3	16.4	16.6	16.7	16.8	17.0	17.1	17.2	17.3
18.0	12.3	13.1	13.7	14.2	14.7	15.0	15.4	15.6	15.9	16.1	16.3	16.5	16.7	16.9	17.0	17.2	17.3	17.4	17.5	17.7	17.8
18.5	12.6	13.4	14.1	14.6	15.1	15.4	15.8	16.1	16.3	16.6	16.8	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.0	18.1	18.3
19.0	13.0	13.8	14.4	15.0	15.4	15.8	16.2	16.5	16.8	17.0	17.2	17.4	17.6	17.8	18.0	18.1	18.3	18.4	18.5	18.6	18.7
19.5	13.3	14.1	14.8	15.4	15.8	16.2	16.6	16.9	17.2	17.5	17.7	17.9	18.1	18.3	18.4	18.6	18.7	18.9	19.0	19.1	19.2
20.0	13.6	14.5	15.2	15.7	16.2	16.6	17.0	17.3	17.6	17.9	18.1	18.3	18.5	18.7	18.9	19.1	19.2	19.4	19.5	19.6	19.7
20.5	13.9	14.8	15.5	16.1	16.6	17.0	17.4	17.8	18.1	18.3	18.6	18.8	19.0	19.2	19.4	19.5	19.7	19.8	20.0	20.1	20.2
21.0	14.3	15.2	15.9	16.5	17.0	17.4	17.8	18.2	18.5	18.8	19.0	19.2	19.5	19.6	19.8	20.0	20.2	20.3	20.4	20.6	20.7
21.5	14.6	15.5	16.3	16.9	17.4	17.8	18.2	18.6	18.9	19.2	19.5	19.7	19.9	20.1	20.3	20.5	20.6	20.8	20.9	21.1	21.2
22.0	14.9	15.8	16.6	17.2	17.8	18.2	18.7	19.0	19.3	19.6	19.9	20.1	20.4	20.6	20.8	20.9	21.1	21.3	21.4	21.6	21.7
22.5	15.2	16.2	17.0	17.6	18.2	18.6	19.1	19.4	19.8	20.1	20.3	20.6	20.8	21.0	21.2	21.4	21.6	21.7	21.9	22.0	22.2
23.0	15.5	16.5	17.3	18.0	18.6	19.0	19.5	19.9	20.2	20.5	20.8	21.0	21.3	21.5	21.7	21.9	22.1	22.2	22.4	22.5	22.7
23.5	15.8	16.9	17.7	18.4	18.9	19.4	19.9	20.3	20.6	20.9	21.2	21.5	21.7	21.9	22.1	22.3	22.5	22.7	22.9	23.0	23.2
24.0	16.2	17.2	18.0	18.7	19.3	19.8	20.3	20.7	21.0	21.4	21.7	21.9	22.2	22.4	22.6	22.8	23.0	23.2	23.3	23.5	23.7
24.5	16.5	17.5	18.4	19.1	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.4	22.6	22.9	23.1	23.3	23.5	23.7	23.8	24.0	24.1
25.0	16.8	17.9	18.8	19.5	20.1	20.6	21.1	21.5	21.9	22.2	22.5	22.8	23.1	23.3	23.5	23.7	23.9	24.1	24.3	24.5	24.6
25.5	17.1	18.2	19.1	19.8	20.5	21.0	21.5	21.9	22.3	22.7	23.0	23.3	23.5	23.8	24.0	24.2	24.4	24.6	24.8	25.0	25.1
26.0	17.4	18.5	19.5	20.2	20.9	21.4	21.9	22.3	22.7	23.1	23.4	23.7	24.0	24.2	24.5	24.7	24.9	25.1	25.3	25.4	25.6
26.5	17.7	18.9	19.8	20.6	21.2	21.8	22.3	22.8	23.2	23.5	23.8	24.1	24.4	24.7	24.9	25.1	25.4	25.6	25.8	25.9	26.1
27.0	18.0	19.2	20.2	21.0	21.6	22.2	22.7	23.2	23.6	23.9	24.3	24.6	24.9	25.1	25.4	25.6	25.8	26.0	26.2	26.4	26.6
27.5	18.3	19.5	20.5	21.3	22.0	22.6	23.1	23.6	24.0	24.4	24.7	25.0	25.3	25.6	25.8	26.1	26.3	26.5	26.7	26.9	27.1
28.0	18.6	19.9	20.9	21.7	22.4	23.0	23.5	24.0	24.4	24.8	25.1	25.5	25.8	26.0	26.3	26.5	26.8	27.0	27.2	27.4	27.6
28.5	19.0	20.2	21.2	22.0	22.8	23.4	23.9	24.4	24.8	25.2	25.6	25.9	26.2	26.5	26.8	27.0	27.2	27.5	27.7	27.9	28.1
29.0	19.3	20.5	21.6	22.4	23.1	23.8	24.3	24.8	25.2	25.6	26.0	26.4	26.7	27.0	27.2	27.5	27.7	27.9	28.2	28.4	28.6
29.5	19.6	20.9	21.9	22.8	23.5	24.2	24.7	25.2	25.7	26.1	26.4	26.8	27.1	27.4	27.7	27.9	28.2	28.4	28.6	28.8	29.0
30.0	19.9	21.2	22.3	23.1	23.9	24.5	25.1	25.6	26.1	26.5	26.9	27.2	27.6	27.9	28.1	28.4	28.7	28.9	29.1	29.3	29.5
30.5	20.2	21.5	22.6	23.5	24.3	24.9	25.5	26.0	26.5	26.9	27.3	27.7	28.0	28.3	28.6	28.9	29.1	29.4	29.6	29.8	30.0
31.0	20.5	21.8	22.9	23.9	24.6	25.3	25.9	26.4	26.9	27.3	27.7	28.1	28.4	28.8	29.1	29.3	29.6	29.8	30.1	30.3	30.5
31.5	20.8	22.2	23.3	24.2	25.0	25.7	26.3	26.8	27.3	27.8	28.2	28.5	28.9	29.2	29.5	29.8	30.1	30.3	30.6	30.8	31.0
32.0	21.1	22.5	23.6	24.6	25.4	26.1	26.7	27.3	27.7	28.2	28.6	29.0	29.3	29.7	30.0	30.3	30.5	30.8	31.0	31.3	31.5
32.5	21.4	22.8	24.0	24.9	25.8	26.5	27.1	27.7	28.2	28.6	29.0	29.4	29.8	30.1	30.4	30.7	31.0	31.3	31.5	31.7	32.0
33.0	21.7	23.1	24.3	25.3	26.1	26.9	27.5	28.1	28.6	29.0	29.5	29.9	30.2	30.6	30.9	31.2	31.5	31.7	32.0	32.2	32.5
33.5	22.0	23.5	24.7	25.6	26.5	27.2	27.9	28.5	29.0	29.5	29.9	30.3	30.7	31.0	31.3	31.6	31.9	32.2	32.5	32.7	33.0
34.0	22.3	23.8	25.0	26.0	26.9	27.6	28.3	28.9	29.4	29.9	30.3	30.7	31.1	31.5	31.8	32.1	32.4	32.7	32.9	33.2	33.4
34.5	22.6	24.1	25.3	26.4	27.2	28.0	28.7	29.3	29.8	30.3	30.8	31.2	31.6	31.9	32.3	32.6	32.9	33.2	33.4	33.7	33.9
35.0	22.9	24.4	25.7	26.7	27.6	28.4	29.1	29.7	30.2	30.7	31.2	31.6	32.0	32.4	32.7	33.0	33.3	33.6	33.9	34.2	34.4
35.5	23.2	24.7	26.0	27.1	28.0	28.8	29.5	30.1	30.6	31.1	31.6	32.0	32.4	32.8	33.2	33.5	33.8	34.1	34.4	34.6	34.9
36.0	23.4	25.0	26.3	27.4	28.3	29.1	29.8	30.5	31.0	31.6	32.0	32.5	32.9	33.3	33.6	34.0	34.3	34.6	34.9	35.1	35.4
36.5	23.7	25.4	26.7	27.8	28.7	29.5	30.2	30.9	31.5	32.0	32.5	32.9	33.3	33.7	34.1	34.4	34.7	35.0	35.3	35.6	35.9
37.0	24.0	25.7	27.0	28.1	29.1	29.9	30.6	31.3	31.9	32.4	32.9	33.3	33.8	34.2	34.5	34.9	35.2	35.5	35.8	36.1	36.4
37.5	24.3	26.0	27.3	28.5	29.4	30.3	31.0	31.7	32.3	32.8	33.3	33.8	34.2	34.6	35.0	35.3	35.7	36.0	36.3	36.6	36.9
38.0	24.6	26.3	27.7	28.8	29.8	30.6	31.4	32.1	32.7	33.2	33.7	34.2	34.6	35.1	35.4	35.8	36.1	36.5	36.8	37.1	37.3
38.5	24.9	26.6	28.0	29.2	30.2	31.0	31.8	32.5	33.1	33.6	34.2	34.6	35.1	35.5	35.9	36.3	36.6	36.9	37.2	37.5	37.8
39.0	25.2	26.9	28.3	29.5	30.5	31.4	32.2	32.9	33.5	34.1	34.6	35.1	35.5	35.9	36.3	36.7	37.1	37.4	37.7	38.0	38.3
39.5	25.5	27.2	28.7	29.9	30.9	31.8	32.6	33.3	33.9	34.5	35.0	35.5	36.0	36.4	36.8	37.2	37.5	37.9	38.2	38.5	38.8
40.0	25.8	27.5	29.0	30.2	31.2	32.1	32.9	33.7	34.3	34.9	35.4	35.9	36.4	36.8	37.2	37.6	38.0	38.3	38.7	39.0	39.3
40.5	26.0	27.9	29.3	30.6	31.6	32.5	33.3	34.1	34.7	35.3	35.9	36.4	36.8	37.3	37.7	38.1	38.5	38.8	39.1	39.5	39.8
41.0	26.3	28.2	29.7	30.9	32.0	32.9	33.7	34.4	35.1	35.7	36.3	36.8	37.3	37.7	38.1	38.5	38.9	39.3	39.6	40.0	40.3
41.5	26.6	28.5	30.0	31.2	32.3	33.3	34.1	34.8	35.5	36.1	36.7	37.2	37.7	38.2	38.6	39.0	39.4	39.8	40.1	40.4	40.8
42.0	26.9	28.8	30.3	31.6	32.7	33.6	34.5	35.2	35.9	36.5	37.1	37.7	38.1	38.6	39.0	39.5	39.8	40.2	40.6	40.9	41.2
42.5	27.2	29.1	30.6	31.9	33.0	34.0	34.9	35.6	36.3	37.0	37.5	38.1	38.6	39.1	39.5	39.9	40.3	40.7	41.0	41.4	41.7
43.0	27.4	29.4	31.0	32.3	33.4	34.4	35.2	36.0	36.7	37.4	38.0	38.5	39.0	39.5	39.9	40.4	40.8	41.2	41.5	41.9	42.2
43.5	27.7	29.7	31.3	32.6	33.7	34.7	35.6	36.4	37.1	37.8	38.4	38.9	39.5	39.9	40.4	40.8	41.2	41.6	42.0	42.4	42.7
44.0	28.0	30.0	31.6	33.0	34.1	35.1	36.0	36.8	37.5	38.2	38.8	39.4	39.9	40.4	40.8	41.3	41.7	42.1	42.5	42.8	43.2
44.5	28.3	30.3	31.9	33.3	34.5	35.5	36.4	37.2	37.9	38.6	39.2	39.8	40.3	40.8	41.3	41.7	42.2	42.6	42.9	43.3	43.7
45.0	28.6	30.6	32.2	33.6	34.8	35.8	36.8	37.6	38.3	39.0	39.6	40.2	40.8	41.3	41.7	42.2	42.6	43.0	43.4	43.8	44.2
45.5	28.8	30.9	32.6	34.0	35.2	36.2	37.1	38.0	38.7	39.4	40.0	40.6	41.2	41.7	42.2	42.6	43.1	43.5	43.9	44.3	44.6
46.0	29.1	31.2	32.9	34.3	35.5	36.6	37.5	38.4	39.1	39.8	40.5	41.1	41.6	42.1	42.6	43.1	43.5	44.0	44.4	44.8	45.1
46.5	29.4	31.5	33.2	34.6	35.9	36.9	37.9	38.7	39.5	40.2	40.9	41.5	42.1	42.6	43.1	43.6	44.0	44.4	44.8	45.2	45.6
47.0	29.7	31.8	33.5	35.0	36.2	37.3	38.3	39.1	39.9	40.6	41.3	41.9	42.5	43.0	43.5	44.0	44.5	44.9	45.3	45.7	46.1
47.5	29.9	32.1	33.8	35.3	36.6	37.7	38.6	39.5	40.3	41.0	41.7	42.3	42.9	43.5	44.0	44.5	44.9	45.4	45.8	46.2	46.6
48.0	30.2	32.4	34.2	35.6	36.9	38.0	39.0	39.9	40.7	41.4	42.1	42.8	43.3	43.9	44.4	44.9	45.4	45.8	46.3	46.7	47.1
48.5	30.5	32.7	34.5	36.0	37.3	38.4	39.4	40.3	41.1	41.9	42.5	43.2	43.8	44.3	44.9	45.4	45.8	46.3	46.7	47.2	47.6
49.0	30.7	33.0	34.8	36.3	37.6	38.8	39.8	40.7	41.5	42.3	43.0	43.6	44.2	44.8	45.3	45.8	46.3	46.8	47.2	47.6	48.0
49.5	31.0	33.3	35.1	36.6	38.0	39.1	40.1	41.1	41.9	42.7	43.4	44.0	44.6	45.2	45.8	46.3	46.8	47.2	47.7	48.1	48.5
50.0	31.3	33.6	35.4	37.0	38.3	39.5	40.5	41.4	42.3	43.1	43.8	44.4	45.1	45.7	46.2	46.7	47.2	47.7	48.2	48.6	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR WATER OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																			
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.1	3.3	3.5	3.7	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9
5.5	3.4	3.7	3.9	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4
6.0	3.7	4.0	4.3	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.8	5.8	5.9	5.9
6.5	4.0	4.4	4.6	4.8	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4
7.0	4.4	4.7	5.0	5.2	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.7	6.7	6.8	6.8	6.9
7.5	4.7	5.0	5.3	5.6	5.8	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.3	7.4
8.0	5.0	5.4	5.7	5.9	6.2	6.4	6.5	6.7	6.8	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.9
8.5	5.3	5.7	6.0	6.3	6.5	6.8	6.9	7.1	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3	8.4
9.0	5.6	6.0	6.4	6.7	6.9	7.2	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8
9.5	5.9	6.4	6.7	7.0	7.3	7.5	7.8	7.9	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.3
10.0	6.2	6.7	7.1	7.4	7.7	7.9	8.2	8.4	8.5	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.8
10.5	6.5	7.0	7.4	7.8	8.1	8.3	8.6	8.8	9.0	9.1	9.3	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3
11.0	6.8	7.4	7.8	8.2	8.5	8.7	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.2	10.4	10.5	10.6	10.6	10.7	10.8
11.5	7.2	7.7	8.2	8.5	8.9	9.1	9.4	9.6	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3
12.0	7.5	8.0	8.5	8.9	9.2	9.5	9.8	10.0	10.2	10.4	10.6	10.8	10.9	11.0	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	7.8	8.4	8.9	9.3	9.6	9.9	10.2	10.4	10.7	10.9	11.0	11.2	11.4	11.5	11.6	11.8	11.9	12.0	12.1	12.2	12.3
13.0	8.1	8.7	9.2	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.4	12.5	12.6	12.7	12.8
13.5	8.4	9.0	9.6	10.0	10.4	10.7	11.0	11.3	11.5	11.7	11.9	12.1	12.3	12.4	12.6	12.7	12.8	13.0	13.1	13.2	13.3
14.0	8.7	9.4	9.9	10.4	10.8	11.1	11.4	11.7	11.9	12.2	12.4	12.6	12.7	12.9	13.0	13.2	13.3	13.4	13.5	13.7	13.8
14.5	9.0	9.7	10.3	10.8	11.2	11.5	11.8	12.1	12.4	12.6	12.8	13.0	13.2	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.3
15.0	9.3	10.1	10.6	11.1	11.6	11.9	12.2	12.5	12.8	13.0	13.3	13.5	13.6	13.8	14.0	14.1	14.3	14.4	14.5	14.6	14.7
15.5	9.6	10.4	11.0	11.5	11.9	12.3	12.7	13.0	13.2	13.5	13.7	13.9	14.1	14.3	14.4	14.6	14.7	14.9	15.0	15.1	15.2
16.0	10.0	10.7	11.3	11.9	12.3	12.7	13.1	13.4	13.7	13.9	14.1	14.4	14.5	14.7	14.9	15.1	15.2	15.4	15.5	15.6	15.7
16.5	10.3	11.1	11.7	12.2	12.7	13.1	13.5	13.8	14.1	14.3	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.8	16.0	16.1	16.2
17.0	10.6	11.4	12.1	12.6	13.1	13.5	13.9	14.2	14.5	14.8	15.0	15.2	15.5	15.7	15.8	16.0	16.2	16.3	16.5	16.6	16.7
17.5	10.9	11.7	12.4	13.0	13.5	13.9	14.3	14.6	14.9	15.2	15.5	15.7	15.9	16.1	16.3	16.5	16.6	16.8	16.9	17.1	17.2
18.0	11.2	12.1	12.8	13.4	13.9	14.3	14.7	15.0	15.4	15.6	15.9	16.1	16.4	16.6	16.8	16.9	17.1	17.3	17.4	17.6	17.7
18.5	11.5	12.4	13.1	13.7	14.2	14.7	15.1	15.5	15.8	16.1	16.3	16.6	16.8	17.0	17.2	17.4	17.6	17.8	17.9	18.0	18.2
19.0	11.8	12.7	13.5	14.1	14.6	15.1	15.5	15.9	16.2	16.5	16.8	17.0	17.3	17.5	17.7	17.9	18.1	18.2	18.4	18.5	18.7
19.5	12.1	13.1	13.8	14.5	15.0	15.5	15.9	16.3	16.6	16.9	17.2	17.5	17.7	18.0	18.2	18.4	18.5	18.7	18.9	19.0	19.2
20.0	12.4	13.4	14.2	14.8	15.4	15.9	16.3	16.7	17.1	17.4	17.7	17.9	18.2	18.4	18.6	18.8	19.0	19.2	19.4	19.5	19.7
20.5	12.8	13.7	14.5	15.2	15.8	16.3	16.7	17.1	17.5	17.8	18.1	18.4	18.6	18.9	19.1	19.3	19.5	19.7	19.8	20.0	20.2
21.0	13.1	14.1	14.9	15.6	16.2	16.7	17.1	17.6	17.9	18.3	18.6	18.8	19.1	19.3	19.6	19.8	20.0	20.1	20.3	20.5	20.6
21.5	13.4	14.4	15.2	16.0	16.6	17.1	17.6	18.0	18.3	18.7	19.0	19.3	19.6	19.8	20.0	20.2	20.4	20.6	20.8	21.0	21.1
22.0	13.7	14.7	15.6	16.3	16.9	17.5	18.0	18.4	18.8	19.1	19.4	19.7	20.0	20.3	20.5	20.7	20.9	21.1	21.3	21.5	21.6
22.5	14.0	15.1	16.0	16.7	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	21.0	21.2	21.4	21.6	21.8	22.0	22.1
23.0	14.3	15.4	16.3	17.1	17.7	18.3	18.8	19.2	19.6	20.0	20.3	20.6	20.9	21.2	21.4	21.7	21.9	22.1	22.3	22.4	22.6
23.5	14.6	15.7	16.7	17.4	18.1	18.7	19.2	19.6	20.1	20.4	20.8	21.1	21.4	21.6	21.9	22.1	22.3	22.5	22.7	22.9	23.1
24.0	14.9	16.1	17.0	17.8	18.5	19.1	19.6	20.1	20.5	20.9	21.2	21.5	21.8	22.1	22.4	22.6	22.8	23.0	23.2	23.4	23.6
24.5	15.2	16.4	17.4	18.2	18.9	19.5	20.0	20.5	20.9	21.3	21.7	22.0	22.3	22.6	22.8	23.1	23.3	23.5	23.7	23.9	24.1
25.0	15.6	16.8	17.7	18.6	19.3	19.9	20.4	20.9	21.3	21.7	22.1	22.4	22.7	23.0	23.3	23.5	23.8	24.0	24.2	24.4	24.6
25.5	15.9	17.1	18.1	18.9	19.6	20.3	20.8	21.3	21.8	22.2	22.5	22.9	23.2	23.5	23.8	24.0	24.2	24.5	24.7	24.9	25.1
26.0	16.2	17.4	18.4	19.3	20.0	20.7	21.2	21.7	22.2	22.6	23.0	23.3	23.6	23.9	24.2	24.5	24.7	24.9	25.2	25.4	25.6
26.5	16.5	17.8	18.8	19.7	20.4	21.1	21.6	22.2	22.6	23.0	23.4	23.8	24.1	24.4	24.7	24.9	25.2	25.4	25.6	25.9	26.1
27.0	16.8	18.1	19.2	20.0	20.8	21.5	22.0	22.6	23.0	23.5	23.9	24.2	24.6	24.9	25.1	25.4	25.7	25.9	26.1	26.3	26.5
27.5	17.1	18.4	19.5	20.4	21.2	21.9	22.5	23.0	23.5	23.9	24.3	24.7	25.0	25.3	25.6	25.9	26.1	26.4	26.6	26.8	27.0
28.0	17.4	18.8	19.9	20.8	21.6	22.3	22.9	23.4	23.9	24.3	24.7	25.1	25.5	25.8	26.1	26.4	26.6	26.9	27.1	27.3	27.5
28.5	17.7	19.1	20.2	21.2	22.0	22.7	23.3	23.8	24.3	24.8	25.2	25.6	25.9	26.2	26.5	26.8	27.1	27.3	27.6	27.8	28.0
29.0	18.0	19.4	20.6	21.5	22.3	23.1	23.7	24.2	24.7	25.2	25.6	26.0	26.4	26.7	27.0	27.3	27.6	27.8	28.1	28.3	28.5
29.5	18.4	19.8	20.9	21.9	22.7	23.4	24.1	24.7	25.2	25.6	26.1	26.5	26.8	27.2	27.5	27.8	28.0	28.3	28.6	28.8	29.0
30.0	18.7	20.1	21.3	22.3	23.1	23.8	24.5	25.1	25.6	26.1	26.5	26.9	27.3	27.6	27.9	28.2	28.5	28.8	29.0	29.3	29.5
30.5	19.0	20.4	21.6	22.6	23.5	24.2	24.9	25.5	26.0	26.5	27.0	27.4	27.7	28.1	28.4	28.7	29.0	29.3	29.5	29.8	30.0
31.0	19.3	20.8	22.0	23.0	23.9	24.6	25.3	25.9	26.5	26.9	27.4	27.8	28.2	28.5	28.9	29.2	29.5	29.7	30.0	30.2	30.5
31.5	19.6	21.1	22.3	23.4	24.3	25.0	25.7	26.3	26.9	27.4	27.8	28.3	28.6	29.0	29.3	29.7	29.9	30.2	30.5	30.7	31.0
32.0	19.9	21.4	22.7	23.8	24.7	25.4	26.1	26.8	27.3	27.8	28.3	28.7	29.1	29.5	29.8	30.1	30.4	30.7	31.0	31.2	31.5
32.5	20.2	21.8	23.1	24.1	25.0	25.8	26.5	27.2	27.7	28.3	28.7	29.2	29.6	29.9	30.3	30.6	30.9	31.2	31.5	31.7	31.9
33.0	20.5	22.1	23.4	24.5	25.4	26.2	26.9	27.6	28.2	28.7	29.2	29.6	30.0	30.4	30.7	31.1	31.4	31.7	31.9	32.2	32.4
33.5	20.9	22.5	23.8	24.9	25.8	26.6	27.4	28.0	28.6	29.1	29.6	30.1	30.5	30.8	31.2	31.5	31.9	32.1	32.4	32.7	32.9
34.0	21.2	22.8	24.1	25.2	26.2	27.0	27.8	28.4	29.0	29.6	30.0	30.5	30.9	31.3	31.7	32.0	32.3	32.6	32.9	33.2	33.4
34.5	21.5	23.1	24.5	25.6	26.6	27.4	28.2	28.8	29.4	30.0	30.5	31.0	31.4	31.8	32.1	32.5	32.8	33.1	33.4	33.7	33.9
35.0	21.8	23.5	24.8	26.0	27.0	27.8	28.6	29.3	29.9	30.4	30.9	31.4	31.8	32.2	32.6	33.0	33.3	33.6	33.9	34.1	34.4
35.5	22.1	23.8	25.2	26.3	27.3	28.2	29.0	29.7	30.3	30.9	31.4	31.8	32.3	32.7	33.1	33.4	33.8	34.1	34.4	34.6	34.9
36.0	22.4	24.1	25.5	26.7	27.7	28.6	29.4	30.1	30.7	31.3	31.8	32.3	32.7	33.2	33.5	33.9	34.2	34.5	34.8	35.1	35.4
36.5	22.7	24.5	25.9	27.1	28.1	29.0	29.8	30.5	31.2	31.7	32.3	32.7	33.2	33.6	34.0	34.4	34.7	35.0	35.3	35.6	35.9
37.0	23.0	24.8	26.2	27.5	28.5	29.4	30.2	30.9	31.6	32.2	32.7	33.2	33.6	34.1	34.5	34.8	35.2	35.5	35.8	36.1	36.4
37.5	23.3	25.1	26.6	27.8	28.9	29.8	30.6	31.4	32.0	32.6	33.1	33.6	34.1	34.5	34.9	35.3	35.7	36.0	36.3	36.6	36.9
38.0	23.7	25.5	27.0	28.2	29.3	30.2	31.0	31.8	32.4	33.0	33.6	34.1	34.6	35.0	35.4	35.8	36.1	36.5	36.8	37.1	37.4
38.5	24.0	25.8	27.3	28.6	29.7	30.6	31.4	32.2	32.9	33.5	34.0	34.5	35.0	35.5	35.9	36.2	36.6	36.9	37.3	37.6	37.8
39.0	24.3	26.1	27.7	28.9	30.0	31.0	31.8	32.6	33.3	33.9	34.5	35.0	35.5	35.9	36.3	36.7	37.1	37.4	37.7	38.1	38.3
39.5	24.6	26.5	28.0	29.3	30.4	31.4	32.3	33.0	33.7	34.3	34.9	35.4	35.9	36.4	36.8	37.2	37.6	37.9	38.2	38.5	38.8
40.0	24.9	26.8	28.4	29.7	30.8	31.8	32.7	33.4	34.1	34.8	35.4	35.9	36.4	36.8	37.3	37.7	38.0	38.4	38.7	39.0	39.3
40.5	25.2	27.2	28.7	30.1	31.2	32.2	33.1	33.9	34.6	35.2	35.8	36.3	36.8	37.3	37.7	38.1	38.5	38.9	39.2	39.5	39.8
41.0	25.5	27.5	29.1	30.4	31.6	32.6	33.5	34.3	35.0	35.6	36.2	36.8	37.3	37.8	38.2	38.6	39.0	39.3	39.7	40.0	40.3
41.5	25.8	27.8	29.4	30.8	32.0	33.0	33.9	34.7	35.4	36.1	36.7	37.2	37.7	38.2	38.7	39.1	39.5	39.8	40.2	40.5	40.8
42.0	26.1	28.2	29.8	31.2	32.4	33.4	34.3	35.1	35.8	36.5	37.1	37.7	38.2	38.7	39.1	39.5	39.9	40.3	40.6	41.0	41.3
42.5	26.5	28.5	30.2	31.5	32.7	33.8	34.7	35.5	36.3	36.9	37.6	38.1	38.7	39.1	39.6	40.0	40.4	40.8	41.1	41.5	41.8
43.0	26.8	28.8	30.5	31.9	33.1	34.2	35.1	36.0	36.7	37.4	38.0	38.6	39.1	39.6	40.1	40.5	40.9	41.3	41.6	42.0	42.3
43.5	27.1	29.2	30.9	32.3	33.5	34.6	35.5	36.4	37.1	37.8	38.4	39.0	39.6	40.1	40.5	41.0	41.4	41.7	42.1	42.4	42.8
44.0	27.4	29.5	31.2	32.7	33.9	35.0	35.9	36.8	37.6	38.3	38.9	39.5	40.0	40.5	41.0	41.4	41.8	42.2	42.6	42.9	43.3
44.5	27.7	29.8	31.6	33.0	34.3	35.4	36.3	37.2	38.0	38.7	39.3	39.9	40.5	41.0	41.5	41.9	42.3	42.7	43.1	43.4	43.7
45.0	28.0	30.2	31.9	33.4	34.7	35.8	36.8	37.6	38.4	39.1	39.8	40.4	40.9	41.4	41.9	42.4	42.8	43.2	43.6	43.9	44.2
45.5	28.3	30.5	32.3	33.8	35.1	36.2	37.2	38.0	38.8	39.6	40.2	40.8	41.4	41.9	42.4	42.8	43.3	43.7	44.0	44.4	44.7
46.0	28.6	30.8	32.6	34.1	35.4	36.6	37.6	38.5	39.3	40.0	40.7	41.3	41.8	42.4	42.9	43.3	43.7	44.1	44.5	44.9	45.2
46.5	28.9	31.2	33.0	34.5	35.8	37.0	38.0	38.9	39.7	40.4	41.1	41.7	42.3	42.8	43.3	43.8	44.2	44.6	45.0	45.4	45.7
47.0	29.3	31.5	33.3	34.9	36.2	37.4	38.4	39.3	40.1	40.9	41.5	42.2	42.7	43.3	43.8	44.2	44.7	45.1	45.5	45.9	46.2
47.5	29.6	31.8	33.7	35.3	36.6	37.8	38.8	39.7	40.5	41.3	42.0	42.6	43.2	43.7	44.2	44.7	45.2	45.6	46.0	46.3	46.7
48.0	29.9	32.2	34.1	35.6	37.0	38.2	39.2	40.1	41.0	41.7	42.4	43.1	43.7	44.2	44.7	45.2	45.6	46.1	46.5	46.8	47.2
48.5	30.2	32.5	34.4	36.0	37.4	38.6	39.6	40.6	41.4	42.2	42.9	43.5	44.1	44.7	45.2	45.7	46.1	46.5	46.9	47.3	47.7
49.0	30.5	32.9	34.8	36.4	37.8	39.0	40.0	41.0	41.8	42.6	43.3	44.0	44.6	45.1	45.6	46.1	46.6	47.0	47.4	47.8	48.2
49.5	30.8	33.2	35.1	36.7	38.1	39.4	40.4	41.4	42.3	43.0	43.8	44.4	45.0	45.6	46.1	46.6	47.1	47.5	47.9	48.3	48.7
50.0	31.1	33.5	35.5	37.1	38.5	39.8	40.8	41.8	42.7	43.5	44.2	44.9	45.5	46.0	46.6	47.1	47.5	48.0	48.4	48.8	49.2

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR WILLOW OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.0	3.2	3.4	3.6	3.7	3.8	3.9	4.1	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.8	4.8	4.8	4.9
5.5	3.3	3.5	3.7	3.9	4.1	4.2	4.3	4.5	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.4
6.0	3.6	3.8	4.1	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.6	5.7	5.8	5.9
6.5	3.9	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.4
7.0	4.2	4.5	4.8	5.0	5.2	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.7	6.8	6.9
7.5	4.5	4.8	5.1	5.3	5.6	5.8	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.3
8.0	4.8	5.1	5.4	5.7	5.9	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.8
8.5	5.1	5.5	5.8	6.1	6.3	6.5	6.7	6.9	7.1	7.2	7.3	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3
9.0	5.4	5.8	6.1	6.4	6.7	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.3	8.4	8.5	8.6	8.6	8.7	8.8
9.5	5.7	6.1	6.5	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.2	8.3	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3
10.0	6.0	6.4	6.8	7.1	7.4	7.7	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8
10.5	6.3	6.8	7.2	7.5	7.8	8.1	8.3	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.8	9.9	10.0	10.1	10.2	10.3
11.0	6.6	7.1	7.5	7.9	8.2	8.5	8.7	8.9	9.1	9.3	9.5	9.7	9.8	10.0	10.1	10.2	10.3	10.5	10.6	10.7	10.8
11.5	6.9	7.4	7.8	8.2	8.5	8.8	9.1	9.3	9.6	9.8	9.9	10.1	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.2	11.3
12.0	7.2	7.7	8.2	8.6	8.9	9.2	9.5	9.7	10.0	10.2	10.4	10.5	10.7	10.9	11.0	11.2	11.3	11.4	11.5	11.6	11.8
12.5	7.5	8.0	8.5	8.9	9.3	9.6	9.9	10.2	10.4	10.6	10.8	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.0	12.1	12.2
13.0	7.8	8.4	8.9	9.3	9.7	10.0	10.3	10.6	10.8	11.0	11.2	11.4	11.6	11.8	11.9	12.1	12.2	12.4	12.5	12.6	12.7
13.5	8.1	8.7	9.2	9.7	10.0	10.4	10.7	11.0	11.2	11.5	11.7	11.9	12.1	12.2	12.4	12.6	12.7	12.8	13.0	13.1	13.2
14.0	8.4	9.0	9.6	10.0	10.4	10.8	11.1	11.4	11.6	11.9	12.1	12.3	12.5	12.7	12.9	13.0	13.2	13.3	13.5	13.6	13.7
14.5	8.7	9.3	9.9	10.4	10.8	11.2	11.5	11.8	12.1	12.3	12.5	12.8	13.0	13.1	13.3	13.5	13.6	13.8	13.9	14.1	14.2
15.0	9.0	9.7	10.2	10.7	11.2	11.5	11.9	12.2	12.5	12.7	13.0	13.2	13.4	13.6	13.8	14.0	14.1	14.3	14.4	14.6	14.7
15.5	9.3	10.0	10.6	11.1	11.5	11.9	12.3	12.6	12.9	13.2	13.4	13.6	13.9	14.1	14.2	14.4	14.6	14.7	14.9	15.0	15.2
16.0	9.6	10.3	10.9	11.5	11.9	12.3	12.7	13.0	13.3	13.6	13.8	14.1	14.3	14.5	14.7	14.9	15.1	15.2	15.4	15.5	15.7
16.5	9.9	10.7	11.3	11.8	12.3	12.7	13.1	13.4	13.7	14.0	14.3	14.5	14.7	15.0	15.2	15.4	15.5	15.7	15.9	16.0	16.2
17.0	10.2	11.0	11.6	12.2	12.7	13.1	13.5	13.8	14.1	14.4	14.7	15.0	15.2	15.4	15.6	15.8	16.0	16.2	16.3	16.5	16.7
17.5	10.5	11.3	12.0	12.5	13.0	13.5	13.9	14.2	14.6	14.9	15.1	15.4	15.6	15.9	16.1	16.3	16.5	16.7	16.8	17.0	17.1
18.0	10.8	11.6	12.3	12.9	13.4	13.9	14.3	14.7	15.0	15.3	15.6	15.8	16.1	16.3	16.5	16.8	16.9	17.1	17.3	17.5	17.6
18.5	11.1	12.0	12.7	13.3	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3	16.5	16.8	17.0	17.2	17.4	17.6	17.8	18.0	18.1
19.0	11.4	12.3	13.0	13.6	14.2	14.7	15.1	15.5	15.8	16.2	16.5	16.7	17.0	17.2	17.5	17.7	17.9	18.1	18.3	18.4	18.6
19.5	11.7	12.6	13.4	14.0	14.5	15.0	15.5	15.9	16.2	16.6	16.9	17.2	17.4	17.7	17.9	18.2	18.4	18.6	18.7	18.9	19.1
20.0	12.0	12.9	13.7	14.4	14.9	15.4	15.9	16.3	16.7	17.0	17.3	17.6	17.9	18.1	18.4	18.6	18.8	19.0	19.2	19.4	19.6
20.5	12.3	13.3	14.0	14.7	15.3	15.8	16.3	16.7	17.1	17.4	17.8	18.1	18.3	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.1
21.0	12.6	13.6	14.4	15.1	15.7	16.2	16.7	17.1	17.5	17.9	18.2	18.5	18.8	19.1	19.3	19.6	19.8	20.0	20.2	20.4	20.6
21.5	12.9	13.9	14.7	15.4	16.1	16.6	17.1	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.8	20.0	20.2	20.5	20.7	20.9	21.1
22.0	13.2	14.2	15.1	15.8	16.4	17.0	17.5	17.9	18.3	18.7	19.1	19.4	19.7	20.0	20.2	20.5	20.7	20.9	21.2	21.4	21.6
22.5	13.5	14.6	15.4	16.2	16.8	17.4	17.9	18.3	18.8	19.1	19.5	19.8	20.1	20.4	20.7	21.0	21.2	21.4	21.6	21.8	22.0
23.0	13.9	14.9	15.8	16.5	17.2	17.8	18.3	18.8	19.2	19.6	19.9	20.3	20.6	20.9	21.2	21.4	21.7	21.9	22.1	22.3	22.5
23.5	14.2	15.2	16.1	16.9	17.6	18.2	18.7	19.2	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.9	22.1	22.4	22.6	22.8	23.0
24.0	14.5	15.6	16.5	17.3	17.9	18.5	19.1	19.6	20.0	20.4	20.8	21.2	21.5	21.8	22.1	22.4	22.6	22.9	23.1	23.3	23.5
24.5	14.8	15.9	16.8	17.6	18.3	18.9	19.5	20.0	20.4	20.9	21.2	21.6	21.9	22.2	22.5	22.8	23.1	23.3	23.6	23.8	24.0
25.0	15.1	16.2	17.2	18.0	18.7	19.3	19.9	20.4	20.9	21.3	21.7	22.0	22.4	22.7	23.0	23.3	23.6	23.8	24.0	24.3	24.5
25.5	15.4	16.5	17.5	18.4	19.1	19.7	20.3	20.8	21.3	21.7	22.1	22.5	22.8	23.2	23.5	23.8	24.0	24.3	24.5	24.8	25.0
26.0	15.7	16.9	17.9	18.7	19.5	20.1	20.7	21.2	21.7	22.1	22.6	22.9	23.3	23.6	23.9	24.2	24.5	24.8	25.0	25.3	25.5
26.5	16.0	17.2	18.2	19.1	19.8	20.5	21.1	21.6	22.1	22.6	23.0	23.4	23.7	24.1	24.4	24.7	25.0	25.2	25.5	25.7	26.0
27.0	16.3	17.5	18.6	19.4	20.2	20.9	21.5	22.0	22.5	23.0	23.4	23.8	24.2	24.5	24.9	25.2	25.4	25.7	26.0	26.2	26.5
27.5	16.6	17.9	18.9	19.8	20.6	21.3	21.9	22.5	23.0	23.4	23.9	24.3	24.6	25.0	25.3	25.6	25.9	26.2	26.5	26.7	26.9
28.0	16.9	18.2	19.3	20.2	21.0	21.7	22.3	22.9	23.4	23.9	24.3	24.7	25.1	25.4	25.8	26.1	26.4	26.7	26.9	27.2	27.4
28.5	17.2	18.5	19.6	20.5	21.3	22.1	22.7	23.3	23.8	24.3	24.7	25.2	25.5	25.9	26.2	26.6	26.9	27.2	27.4	27.7	27.9
29.0	17.5	18.9	20.0	20.9	21.7	22.5	23.1	23.7	24.2	24.7	25.2	25.6	26.0	26.4	26.7	27.0	27.3	27.6	27.9	28.2	28.4
29.5	17.8	19.2	20.3	21.3	22.1	22.8	23.5	24.1	24.7	25.2	25.6	26.0	26.4	26.8	27.2	27.5	27.8	28.1	28.4	28.7	28.9
30.0	18.2	19.5	20.7	21.6	22.5	23.2	23.9	24.5	25.1	25.6	26.1	26.5	26.9	27.3	27.6	28.0	28.3	28.6	28.9	29.1	29.4
30.5	18.5	19.9	21.0	22.0	22.9	23.6	24.3	24.9	25.5	26.0	26.5	26.9	27.3	27.7	28.1	28.4	28.8	29.1	29.4	29.6	29.9
31.0	18.8	20.2	21.4	22.4	23.2	24.0	24.7	25.3	25.9	26.4	26.9	27.4	27.8	28.2	28.6	28.9	29.2	29.5	29.8	30.1	30.4
31.5	19.1	20.5	21.7	22.7	23.6	24.4	25.1	25.8	26.3	26.9	27.4	27.8	28.2	28.6	29.0	29.4	29.7	30.0	30.3	30.6	30.9
32.0	19.4	20.8	22.1	23.1	24.0	24.8	25.5	26.2	26.8	27.3	27.8	28.3	28.7	29.1	29.5	29.8	30.2	30.5	30.8	31.1	31.4
32.5	19.7	21.2	22.4	23.5	24.4	25.2	25.9	26.6	27.2	27.7	28.2	28.7	29.1	29.6	29.9	30.3	30.7	31.0	31.3	31.6	31.9
33.0	20.0	21.5	22.8	23.8	24.8	25.6	26.3	27.0	27.6	28.2	28.7	29.2	29.6	30.0	30.4	30.8	31.1	31.5	31.8	32.1	32.3
33.5	20.3	21.8	23.1	24.2	25.1	26.0	26.7	27.4	28.0	28.6	29.1	29.6	30.1	30.5	30.9	31.2	31.6	31.9	32.2	32.5	32.8
34.0	20.6	22.2	23.5	24.6	25.5	26.4	27.1	27.8	28.5	29.0	29.6	30.0	30.5	30.9	31.3	31.7	32.1	32.4	32.7	33.0	33.3
34.5	20.9	22.5	23.8	24.9	25.9	26.8	27.5	28.2	28.9	29.5	30.0	30.5	31.0	31.4	31.8	32.2	32.5	32.9	33.2	33.5	33.8
35.0	21.2	22.8	24.2	25.3	26.3	27.2	27.9	28.7	29.3	29.9	30.4	30.9	31.4	31.8	32.3	32.7	33.0	33.4	33.7	34.0	34.3
35.5	21.6	23.2	24.5	25.7	26.7	27.6	28.4	29.1	29.7	30.3	30.9	31.4	31.9	32.3	32.7	33.1	33.5	33.8	34.2	34.5	34.8
36.0	21.9	23.5	24.9	26.0	27.1	28.0	28.8	29.5	30.1	30.7	31.3	31.8	32.3	32.8	33.2	33.6	34.0	34.3	34.7	35.0	35.3
36.5	22.2	23.8	25.2	26.4	27.4	28.3	29.2	29.9	30.6	31.2	31.7	32.3	32.8	33.2	33.7	34.1	34.4	34.8	35.1	35.5	35.8
37.0	22.5	24.2	25.6	26.8	27.8	28.7	29.6	30.3	31.0	31.6	32.2	32.7	33.2	33.7	34.1	34.5	34.9	35.3	35.6	36.0	36.3
37.5	22.8	24.5	25.9	27.1	28.2	29.1	30.0	30.7	31.4	32.0	32.6	33.2	33.7	34.1	34.6	35.0	35.4	35.8	36.1	36.4	36.8
38.0	23.1	24.8	26.3	27.5	28.6	29.5	30.4	31.1	31.8	32.5	33.1	33.6	34.1	34.6	35.0	35.5	35.9	36.2	36.6	36.9	37.3
38.5	23.4	25.2	26.6	27.9	29.0	29.9	30.8	31.6	32.3	32.9	33.5	34.1	34.6	35.1	35.5	35.9	36.3	36.7	37.1	37.4	37.7
39.0	23.7	25.5	27.0	28.3	29.3	30.3	31.2	32.0	32.7	33.3	33.9	34.5	35.0	35.5	36.0	36.4	36.8	37.2	37.6	37.9	38.2
39.5	24.1	25.8	27.3	28.6	29.7	30.7	31.6	32.4	33.1	33.8	34.4	35.0	35.5	36.0	36.4	36.9	37.3	37.7	38.0	38.4	38.7
40.0	24.4	26.2	27.7	29.0	30.1	31.1	32.0	32.8	33.5	34.2	34.8	35.4	35.9	36.4	36.9	37.3	37.8	38.2	38.5	38.9	39.2
40.5	24.7	26.5	28.1	29.4	30.5	31.5	32.4	33.2	34.0	34.6	35.3	35.8	36.4	36.9	37.4	37.8	38.2	38.6	39.0	39.4	39.7
41.0	25.0	26.9	28.4	29.7	30.9	31.9	32.8	33.6	34.4	35.1	35.7	36.3	36.8	37.4	37.8	38.3	38.7	39.1	39.5	39.9	40.2
41.5	25.3	27.2	28.8	30.1	31.3	32.3	33.2	34.1	34.8	35.5	36.1	36.7	37.3	37.8	38.3	38.8	39.2	39.6	40.0	40.3	40.7
42.0	25.6	27.5	29.1	30.5	31.6	32.7	33.6	34.5	35.2	35.9	36.6	37.2	37.7	38.3	38.8	39.2	39.7	40.1	40.5	40.8	41.2
42.5	25.9	27.9	29.5	30.8	32.0	33.1	34.0	34.9	35.7	36.4	37.0	37.6	38.2	38.7	39.2	39.7	40.1	40.5	40.9	41.3	41.7
43.0	26.2	28.2	29.8	31.2	32.4	33.5	34.4	35.3	36.1	36.8	37.5	38.1	38.7	39.2	39.7	40.2	40.6	41.0	41.4	41.8	42.2
43.5	26.6	28.5	30.2	31.6	32.8	33.9	34.8	35.7	36.5	37.2	37.9	38.5	39.1	39.6	40.2	40.6	41.1	41.5	41.9	42.3	42.7
44.0	26.9	28.9	30.5	32.0	33.2	34.3	35.3	36.1	36.9	37.7	38.3	39.0	39.6	40.1	40.6	41.1	41.6	42.0	42.4	42.8	43.2
44.5	27.2	29.2	30.9	32.3	33.6	34.7	35.7	36.5	37.4	38.1	38.8	39.4	40.0	40.6	41.1	41.6	42.0	42.5	42.9	43.3	43.6
45.0	27.5	29.5	31.2	32.7	34.0	35.1	36.1	37.0	37.8	38.5	39.2	39.9	40.5	41.0	41.5	42.0	42.5	42.9	43.4	43.8	44.1
45.5	27.8	29.9	31.6	33.1	34.3	35.5	36.5	37.4	38.2	39.0	39.7	40.3	40.9	41.5	42.0	42.5	43.0	43.4	43.8	44.2	44.6
46.0	28.1	30.2	32.0	33.4	34.7	35.9	36.9	37.8	38.6	39.4	40.1	40.8	41.4	41.9	42.5	43.0	43.5	43.9	44.3	44.7	45.1
46.5	28.4	30.6	32.3	33.8	35.1	36.3	37.3	38.2	39.1	39.8	40.6	41.2	41.8	42.4	42.9	43.5	43.9	44.4	44.8	45.2	45.6
47.0	28.8	30.9	32.7	34.2	35.5	36.7	37.7	38.6	39.5	40.3	41.0	41.7	42.3	42.9	43.4	43.9	44.4	44.9	45.3	45.7	46.1
47.5	29.1	31.2	33.0	34.6	35.9	37.1	38.1	39.1	39.9	40.7	41.4	42.1	42.7	43.3	43.9	44.4	44.9	45.3	45.8	46.2	46.6
48.0	29.4	31.6	33.4	34.9	36.3	37.5	38.5	39.5	40.3	41.1	41.9	42.6	43.2	43.8	44.3	44.9	45.4	45.8	46.3	46.7	47.1
48.5	29.7	31.9	33.7	35.3	36.7	37.9	38.9	39.9	40.8	41.6	42.3	43.0	43.6	44.2	44.8	45.3	45.8	46.3	46.7	47.2	47.6
49.0	30.0	32.2	34.1	35.7	37.0	38.2	39.3	40.3	41.2	42.0	42.8	43.5	44.1	44.7	45.3	45.8	46.3	46.8	47.2	47.7	48.1
49.5	30.3	32.6	34.5	36.0	37.4	38.6	39.7	40.7	41.6	42.4	43.2	43.9	44.6	45.2	45.7	46.3	46.8	47.3	47.7	48.1	48.6
50.0	30.7	32.9	34.8	36.4	37.8	39.0	40.1	41.1	42.0	42.9	43.6	44.4	45.0	45.6	46.2	46.7	47.3	47.7	48.2	48.6	49.0

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR CHESTNUT OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.6	3.8	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9	4.9
5.5	3.7	4.0	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4
6.0	4.1	4.4	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.7	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.4	4.7	5.0	5.2	5.3	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4
7.0	4.8	5.1	5.3	5.5	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9
7.5	5.1	5.5	5.7	5.9	6.1	6.3	6.4	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.5	5.8	6.1	6.3	6.5	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9
8.5	5.8	6.2	6.5	6.7	6.9	7.1	7.3	7.4	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.4
9.0	6.1	6.5	6.9	7.1	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.9
9.5	6.5	6.9	7.2	7.5	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.4
10.0	6.8	7.3	7.6	7.9	8.2	8.4	8.6	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.7	9.8	9.8	9.9
10.5	7.2	7.6	8.0	8.3	8.6	8.8	9.0	9.2	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2	10.3	10.3	10.4
11.0	7.5	8.0	8.4	8.7	9.0	9.2	9.4	9.6	9.8	9.9	10.0	10.2	10.3	10.4	10.5	10.5	10.6	10.7	10.8	10.8	10.9
11.5	7.8	8.4	8.8	9.1	9.4	9.6	9.9	10.0	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.4
12.0	8.2	8.7	9.1	9.5	9.8	10.1	10.3	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.7	11.8	11.9
12.5	8.5	9.1	9.5	9.9	10.2	10.5	10.7	10.9	11.1	11.3	11.4	11.5	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.4
13.0	8.8	9.4	9.9	10.3	10.6	10.9	11.1	11.4	11.5	11.7	11.9	12.0	12.1	12.2	12.4	12.5	12.5	12.6	12.7	12.8	12.8
13.5	9.2	9.8	10.3	10.7	11.0	11.3	11.6	11.8	12.0	12.2	12.3	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.3
14.0	9.5	10.2	10.7	11.1	11.4	11.7	12.0	12.2	12.4	12.6	12.8	12.9	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.8
14.5	9.9	10.5	11.0	11.5	11.8	12.2	12.4	12.7	12.9	13.1	13.2	13.4	13.5	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.3
15.0	10.2	10.9	11.4	11.9	12.3	12.6	12.9	13.1	13.3	13.5	13.7	13.9	14.0	14.1	14.3	14.4	14.5	14.6	14.7	14.7	14.8
15.5	10.5	11.2	11.8	12.3	12.7	13.0	13.3	13.5	13.8	14.0	14.1	14.3	14.5	14.6	14.7	14.8	15.0	15.1	15.1	15.2	15.3
16.0	10.9	11.6	12.2	12.7	13.1	13.4	13.7	14.0	14.2	14.4	14.6	14.8	14.9	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8
16.5	11.2	12.0	12.6	13.1	13.5	13.8	14.1	14.4	14.7	14.9	15.1	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.1	16.2	16.3
17.0	11.6	12.3	12.9	13.5	13.9	14.2	14.6	14.8	15.1	15.3	15.5	15.7	15.9	16.0	16.2	16.3	16.4	16.5	16.6	16.7	16.8
17.5	11.9	12.7	13.3	13.8	14.3	14.7	15.0	15.3	15.5	15.8	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.0	17.1	17.2	17.3
18.0	12.2	13.1	13.7	14.2	14.7	15.1	15.4	15.7	16.0	16.2	16.4	16.6	16.8	17.0	17.1	17.2	17.4	17.5	17.6	17.7	17.8
18.5	12.6	13.4	14.1	14.6	15.1	15.5	15.8	16.2	16.4	16.7	16.9	17.1	17.3	17.4	17.6	17.7	17.8	18.0	18.1	18.2	18.3
19.0	12.9	13.8	14.5	15.0	15.5	15.9	16.3	16.6	16.9	17.1	17.3	17.5	17.7	17.9	18.1	18.2	18.3	18.5	18.6	18.7	18.8
19.5	13.3	14.1	14.8	15.4	15.9	16.3	16.7	17.0	17.3	17.6	17.8	18.0	18.2	18.4	18.5	18.7	18.8	18.8	18.9	19.1	19.2
20.0	13.6	14.5	15.2	15.8	16.3	16.8	17.1	17.5	17.8	18.0	18.2	18.5	18.7	18.8	19.0	19.2	19.3	19.4	19.5	19.7	19.8
20.5	13.9	14.9	15.6	16.2	16.7	17.2	17.6	17.9	18.2	18.5	18.7	18.9	19.1	19.3	19.5	19.6	19.8	19.9	20.0	20.1	20.3
21.0	14.3	15.2	16.0	16.6	17.1	17.6	18.0	18.3	18.6	18.9	19.2	19.4	19.6	19.8	19.9	20.1	20.3	20.4	20.5	20.6	20.8
21.5	14.6	15.6	16.4	17.0	17.5	18.0	18.4	18.8	19.1	19.4	19.6	19.8	20.1	20.2	20.4	20.6	20.7	20.9	21.0	21.1	21.2
22.0	14.9	15.9	16.7	17.4	17.9	18.4	18.8	19.2	19.5	19.8	20.1	20.3	20.5	20.7	20.9	21.1	21.2	21.4	21.5	21.6	21.7
22.5	15.3	16.3	17.1	17.8	18.4	18.8	19.3	19.6	20.0	20.3	20.5	20.8	21.0	21.2	21.4	21.5	21.7	21.8	22.0	22.1	22.2
23.0	15.6	16.7	17.5	18.2	18.8	19.3	19.7	20.1	20.4	20.7	21.0	21.2	21.5	21.7	21.8	22.0	22.2	22.3	22.5	22.6	22.7
23.5	16.0	17.0	17.9	18.6	19.2	19.7	20.1	20.5	20.8	21.2	21.4	21.7	21.9	22.1	22.3	22.5	22.7	22.8	23.0	23.1	23.2
24.0	16.3	17.4	18.3	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.1	22.4	22.6	22.8	23.0	23.1	23.3	23.4	23.6	23.7
24.5	16.6	17.7	18.6	19.4	20.0	20.5	21.0	21.4	21.7	22.1	22.3	22.6	22.8	23.1	23.3	23.5	23.6	23.8	23.9	24.1	24.2
25.0	17.0	18.1	19.0	19.8	20.4	20.9	21.4	21.8	22.2	22.5	22.8	23.1	23.3	23.5	23.7	23.9	24.1	24.3	24.4	24.6	24.7
25.5	17.3	18.5	19.4	20.2	20.8	21.3	21.8	22.2	22.6	23.0	23.3	23.5	23.8	24.0	24.2	24.4	24.6	24.8	24.9	25.1	25.2
26.0	17.6	18.8	19.8	20.5	21.2	21.8	22.3	22.7	23.1	23.4	23.7	24.0	24.2	24.5	24.7	24.9	25.1	25.2	25.4	25.6	25.7
26.5	18.0	19.2	20.1	20.9	21.6	22.2	22.7	23.1	23.5	23.9	24.2	24.4	24.7	24.9	25.2	25.4	25.6	25.7	25.9	26.0	26.2
27.0	18.3	19.5	20.5	21.3	22.0	22.6	23.1	23.5	23.9	24.3	24.6	24.9	25.2	25.4	25.6	25.8	26.0	26.2	26.4	26.5	26.7
27.5	18.7	19.9	20.9	21.7	22.4	23.0	23.5	24.0	24.4	24.7	25.1	25.4	25.6	25.9	26.1	26.3	26.5	26.7	26.9	27.0	27.2
28.0	19.0	20.3	21.3	22.1	22.8	23.4	24.0	24.4	24.8	25.2	25.5	25.8	26.1	26.4	26.6	26.8	27.0	27.2	27.4	27.5	27.7
28.5	19.3	20.6	21.7	22.5	23.2	23.8	24.4	24.9	25.3	25.6	26.0	26.3	26.6	26.8	27.1	27.3	27.5	27.7	27.8	28.0	28.2
29.0	19.7	21.0	22.0	22.9	23.6	24.3	24.8	25.3	25.7	26.1	26.4	26.8	27.0	27.3	27.5	27.8	28.0	28.2	28.3	28.5	28.7
29.5	20.0	21.3	22.4	23.3	24.0	24.7	25.2	25.7	26.2	26.5	26.9	27.2	27.5	27.8	28.0	28.2	28.4	28.6	28.8	29.0	29.1
30.0	20.3	21.7	22.8	23.7	24.4	25.1	25.7	26.2	26.6	27.0	27.3	27.7	28.0	28.2	28.5	28.7	28.9	29.1	29.3	29.5	29.6
30.5	20.7	22.1	23.2	24.1	24.9	25.5	26.1	26.6	27.0	27.4	27.8	28.1	28.4	28.7	29.0	29.2	29.4	29.6	29.8	30.0	30.1
31.0	21.0	22.4	23.5	24.5	25.3	25.9	26.5	27.0	27.5	27.9	28.3	28.6	28.9	29.2	29.4	29.7	29.9	30.1	30.3	30.5	30.6
31.5	21.3	22.8	23.9	24.9	25.7	26.3	26.9	27.5	27.9	28.3	28.7	29.1	29.4	29.6	29.9	30.1	30.4	30.6	30.8	31.0	31.1
32.0	21.7	23.1	24.3	25.3	26.1	26.8	27.4	27.9	28.4	28.8	29.2	29.5	29.8	30.1	30.4	30.6	30.9	31.1	31.3	31.4	31.6
32.5	22.0	23.5	24.7	25.7	26.5	27.2	27.8	28.3	28.8	29.2	29.6	30.0	30.3	30.6	30.9	31.1	31.3	31.5	31.7	31.9	32.1
33.0	22.4	23.9	25.1	26.0	26.9	27.6	28.2	28.8	29.2	29.7	30.1	30.4	30.8	31.1	31.3	31.6	31.8	32.0	32.2	32.4	32.6
33.5	22.7	24.2	25.4	26.4	27.3	28.0	28.6	29.2	29.7	30.1	30.5	30.9	31.2	31.5	31.8	32.1	32.3	32.5	32.7	32.9	33.1
34.0	23.0	24.6	25.8	26.8	27.7	28.4	29.1	29.6	30.1	30.6	31.0	31.3	31.7	32.0	32.3	32.5	32.8	33.0	33.2	33.4	33.6
34.5	23.4	24.9	26.2	27.2	28.1	28.8	29.5	30.1	30.6	31.0	31.4	31.8	32.1	32.5	32.7	33.0	33.3	33.5	33.7	33.9	34.1
35.0	23.7	25.3	26.6	27.6	28.5	29.3	29.9	30.5	31.0	31.5	31.9	32.3	32.6	32.9	33.2	33.5	33.7	34.0	34.2	34.4	34.6
35.5	24.0	25.7	26.9	28.0	28.9	29.7	30.3	30.9	31.5	31.9	32.3	32.7	33.1	33.4	33.7	34.0	34.2	34.5	34.7	34.9	35.1
36.0	24.4	26.0	27.3	28.4	29.3	30.1	30.8	31.4	31.9	32.4	32.8	33.2	33.5	33.9	34.2	34.4	34.7	34.9	35.2	35.4	35.6
36.5	24.7	26.4	27.7	28.8	29.7	30.5	31.2	31.8	32.3	32.8	33.3	33.6	34.0	34.3	34.6	34.9	35.2	35.4	35.6	35.9	36.1
37.0	25.0	26.7	28.1	29.2	30.1	30.9	31.6	32.2	32.8	33.3	33.7	34.1	34.5	34.8	35.1	35.4	35.7	35.9	36.1	36.4	36.6
37.5	25.4	27.1	28.5	29.6	30.5	31.3	32.0	32.7	33.2	33.7	34.2	34.6	34.9	35.3	35.6	35.9	36.1	36.4	36.6	36.8	37.0
38.0	25.7	27.4	28.8	30.0	30.9	31.8	32.5	33.1	33.7	34.2	34.6	35.0	35.4	35.7	36.1	36.4	36.6	36.9	37.1	37.3	37.5
38.5	26.1	27.8	29.2	30.4	31.3	32.2	32.9	33.5	34.1	34.6	35.1	35.5	35.9	36.2	36.5	36.8	37.1	37.4	37.6	37.8	38.0
39.0	26.4	28.2	29.6	30.8	31.7	32.6	33.3	34.0	34.5	35.1	35.5	35.9	36.3	36.7	37.0	37.3	37.6	37.8	38.1	38.3	38.5
39.5	26.7	28.5	30.0	31.1	32.1	33.0	33.7	34.4	35.0	35.5	36.0	36.4	36.8	37.2	37.5	37.8	38.1	38.3	38.6	38.8	39.0
40.0	27.1	28.9	30.3	31.5	32.5	33.4	34.2	34.8	35.4	36.0	36.4	36.9	37.3	37.6	38.0	38.3	38.5	38.8	39.1	39.3	39.5
40.5	27.4	29.2	30.7	31.9	32.9	33.8	34.6	35.3	35.9	36.4	36.9	37.3	37.7	38.1	38.4	38.7	39.0	39.3	39.6	39.8	40.0
41.0	27.7	29.6	31.1	32.3	33.4	34.2	35.0	35.7	36.3	36.8	37.3	37.8	38.2	38.6	38.9	39.2	39.5	39.8	40.0	40.3	40.5
41.5	28.1	30.0	31.5	32.7	33.8	34.7	35.4	36.1	36.7	37.3	37.8	38.2	38.7	39.0	39.4	39.7	40.0	40.3	40.5	40.8	41.0
42.0	28.4	30.3	31.8	33.1	34.2	35.1	35.9	36.6	37.2	37.7	38.2	38.7	39.1	39.5	39.8	40.2	40.5	40.8	41.0	41.3	41.5
42.5	28.7	30.7	32.2	33.5	34.6	35.5	36.3	37.0	37.6	38.2	38.7	39.2	39.6	40.0	40.3	40.6	41.0	41.2	41.5	41.7	42.0
43.0	29.1	31.0	32.6	33.9	35.0	35.9	36.7	37.4	38.1	38.6	39.2	39.6	40.0	40.4	40.8	41.1	41.4	41.7	42.0	42.2	42.5
43.5	29.4	31.4	33.0	34.3	35.4	36.3	37.1	37.9	38.5	39.1	39.6	40.1	40.5	40.9	41.3	41.6	41.9	42.2	42.5	42.7	43.0
44.0	29.7	31.7	33.3	34.7	35.8	36.7	37.6	38.3	38.9	39.5	40.1	40.5	41.0	41.4	41.7	42.1	42.4	42.7	43.0	43.2	43.5
44.5	30.1	32.1	33.7	35.1	36.2	37.1	38.0	38.7	39.4	40.0	40.5	41.0	41.4	41.8	42.2	42.6	42.9	43.2	43.5	43.7	44.0
45.0	30.4	32.5	34.1	35.4	36.6	37.6	38.4	39.2	39.8	40.4	41.0	41.5	41.9	42.3	42.7	43.0	43.4	43.7	43.9	44.2	44.4
45.5	30.7	32.8	34.5	35.8	37.0	38.0	38.8	39.6	40.3	40.9	41.4	41.9	42.4	42.8	43.2	43.5	43.8	44.1	44.4	44.7	44.9
46.0	31.1	33.2	34.8	36.2	37.4	38.4	39.3	40.0	40.7	41.3	41.9	42.4	42.8	43.2	43.6	44.0	44.3	44.6	44.9	45.2	45.4
46.5	31.4	33.5	35.2	36.6	37.8	38.8	39.7	40.5	41.2	41.8	42.3	42.8	43.3	43.7	44.1	44.5	44.8	45.1	45.4	45.7	45.9
47.0	31.7	33.9	35.6	37.0	38.2	39.2	40.1	40.9	41.6	42.2	42.8	43.3	43.8	44.2	44.6	44.9	45.3	45.6	45.9	46.2	46.4
47.5	32.1	34.2	36.0	37.4	38.6	39.6	40.5	41.3	42.0	42.7	43.2	43.7	44.2	44.7	45.1	45.4	45.8	46.1	46.4	46.7	46.9
48.0	32.4	34.6	36.3	37.8	39.0	40.1	41.0	41.8	42.5	43.1	43.7	44.2	44.7	45.1	45.5	45.9	46.2	46.6	46.9	47.1	47.4
48.5	32.7	35.0	36.7	38.2	39.4	40.5	41.4	42.2	42.9	43.6	44.1	44.7	45.1	45.6	46.0	46.4	46.7	47.0	47.4	47.6	47.9
49.0	33.1	35.3	37.1	38.6	39.8	40.9	41.8	42.6	43.4	44.0	44.6	45.1	45.6	46.1	46.5	46.8	47.2	47.5	47.8	48.1	48.4
49.5	33.4	35.7	37.5	39.0	40.2	41.3	42.2	43.1	43.8	44.4	45.0	45.6	46.1	46.5	46.9	47.3	47.7	48.0	48.3	48.6	48.9
50.0	33.7	36.0	37.8	39.4	40.6	41.7	42.7	43.5	44.2	44.9	45.5	46.0	46.5	47.0	47.4	47.8	48.2	48.5	48.8	49.1	49.4

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR NORTHERN RED OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.3	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9
5.5	3.6	3.8	4.0	4.2	4.3	4.5	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4
6.0	3.9	4.2	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.2	4.5	4.7	4.9	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4
7.0	4.5	4.8	5.1	5.3	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9
7.5	4.9	5.2	5.5	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.3	7.3	7.4
8.0	5.2	5.5	5.8	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.8	7.9
8.5	5.5	5.9	6.2	6.4	6.7	6.8	7.0	7.2	7.3	7.4	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.2	8.2	8.3	8.4
9.0	5.8	6.2	6.5	6.8	7.0	7.2	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.9
9.5	6.1	6.5	6.9	7.2	7.4	7.6	7.8	8.0	8.2	8.3	8.4	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.3	9.3
10.0	6.4	6.9	7.2	7.5	7.8	8.0	8.2	8.4	8.6	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.8
10.5	6.8	7.2	7.6	7.9	8.2	8.4	8.6	8.8	9.0	9.2	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3
11.0	7.1	7.6	8.0	8.3	8.6	8.8	9.1	9.3	9.4	9.6	9.8	9.9	10.0	10.1	10.3	10.4	10.5	10.6	10.6	10.7	10.8
11.5	7.4	7.9	8.3	8.7	9.0	9.2	9.5	9.7	9.9	10.0	10.2	10.3	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3
12.0	7.7	8.2	8.7	9.0	9.3	9.6	9.9	10.1	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	8.0	8.6	9.0	9.4	9.7	10.0	10.3	10.5	10.7	10.9	11.1	11.2	11.4	11.5	11.6	11.8	11.9	12.0	12.1	12.2	12.3
13.0	8.3	8.9	9.4	9.8	10.1	10.4	10.7	10.9	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.4	12.5	12.6	12.7	12.8
13.5	8.6	9.2	9.7	10.1	10.5	10.8	11.1	11.3	11.5	11.8	11.9	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.1	13.2	13.3
14.0	8.9	9.6	10.1	10.5	10.9	11.2	11.5	11.7	12.0	12.2	12.4	12.6	12.7	12.9	13.0	13.2	13.3	13.4	13.5	13.6	13.8
14.5	9.2	9.9	10.4	10.9	11.2	11.6	11.9	12.1	12.4	12.6	12.8	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.0	14.1	14.2
15.0	9.5	10.2	10.8	11.2	11.6	12.0	12.3	12.6	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.1	14.2	14.4	14.5	14.6	14.7
15.5	9.9	10.5	11.1	11.6	12.0	12.4	12.7	13.0	13.2	13.5	13.7	13.9	14.1	14.2	14.4	14.6	14.7	14.9	15.0	15.1	15.2
16.0	10.2	10.9	11.5	12.0	12.4	12.7	13.1	13.4	13.6	13.9	14.1	14.3	14.5	14.7	14.9	15.0	15.2	15.3	15.5	15.6	15.7
16.5	10.5	11.2	11.8	12.3	12.8	13.1	13.5	13.8	14.1	14.3	14.6	14.8	15.0	15.2	15.3	15.5	15.7	15.8	15.9	16.1	16.2
17.0	10.8	11.5	12.1	12.7	13.1	13.5	13.9	14.2	14.5	14.7	15.0	15.2	15.4	15.6	15.8	16.0	16.1	16.3	16.4	16.6	16.7
17.5	11.1	11.9	12.5	13.0	13.5	13.9	14.3	14.6	14.9	15.2	15.4	15.6	15.9	16.1	16.3	16.4	16.6	16.8	16.9	17.0	17.2
18.0	11.4	12.2	12.8	13.4	13.9	14.3	14.7	15.0	15.3	15.6	15.9	16.1	16.3	16.5	16.7	16.9	17.1	17.2	17.4	17.5	17.7
18.5	11.7	12.5	13.2	13.8	14.3	14.7	15.1	15.4	15.7	16.0	16.3	16.5	16.8	17.0	17.2	17.4	17.5	17.7	17.9	18.0	18.2
19.0	12.0	12.8	13.5	14.1	14.6	15.1	15.5	15.8	16.1	16.4	16.7	17.0	17.2	17.4	17.6	17.8	18.0	18.2	18.3	18.5	18.7
19.5	12.3	13.2	13.9	14.5	15.0	15.5	15.9	16.2	16.6	16.9	17.1	17.4	17.6	17.9	18.1	18.3	18.5	18.7	18.8	19.0	19.1
20.0	12.6	13.5	14.2	14.8	15.4	15.8	16.3	16.6	17.0	17.3	17.6	17.8	18.1	18.3	18.5	18.8	18.9	19.1	19.3	19.5	19.6
20.5	12.9	13.8	14.6	15.2	15.7	16.2	16.7	17.0	17.4	17.7	18.0	18.3	18.5	18.8	19.0	19.2	19.4	19.6	19.8	20.0	20.1
21.0	13.2	14.1	14.9	15.5	16.1	16.6	17.0	17.4	17.8	18.1	18.4	18.7	19.0	19.2	19.5	19.7	19.9	20.1	20.3	20.4	20.6
21.5	13.5	14.4	15.2	15.9	16.5	17.0	17.4	17.9	18.2	18.6	18.9	19.2	19.4	19.7	19.9	20.1	20.4	20.6	20.7	20.9	21.1
22.0	13.8	14.8	15.6	16.3	16.9	17.4	17.8	18.3	18.6	19.0	19.3	19.6	19.9	20.1	20.4	20.6	20.8	21.0	21.2	21.4	21.6
22.5	14.1	15.1	15.9	16.6	17.2	17.8	18.2	18.7	19.0	19.4	19.7	20.0	20.3	20.6	20.8	21.1	21.3	21.5	21.7	21.9	22.1
23.0	14.4	15.4	16.2	17.0	17.6	18.1	18.6	19.1	19.5	19.8	20.2	20.5	20.8	21.0	21.3	21.5	21.8	22.0	22.2	22.4	22.6
23.5	14.7	15.7	16.6	17.3	18.0	18.5	19.0	19.5	19.9	20.2	20.6	20.9	21.2	21.5	21.7	22.0	22.2	22.4	22.7	22.9	23.1
24.0	14.9	16.0	16.9	17.7	18.3	18.9	19.4	19.9	20.3	20.7	21.0	21.3	21.6	21.9	22.2	22.5	22.7	22.9	23.1	23.3	23.5
24.5	15.2	16.3	17.3	18.0	18.7	19.3	19.8	20.3	20.7	21.1	21.4	21.8	22.1	22.4	22.7	22.9	23.2	23.4	23.6	23.8	24.0
25.0	15.5	16.7	17.6	18.4	19.1	19.7	20.2	20.7	21.1	21.5	21.9	22.2	22.5	22.8	23.1	23.4	23.6	23.9	24.1	24.3	24.5
25.5	15.8	17.0	17.9	18.7	19.4	20.0	20.6	21.1	21.5	21.9	22.3	22.6	23.0	23.3	23.6	23.8	24.1	24.3	24.6	24.8	25.0
26.0	16.1	17.3	18.3	19.1	19.8	20.4	21.0	21.5	21.9	22.3	22.7	23.1	23.4	23.7	24.0	24.3	24.6	24.8	25.0	25.3	25.5
26.5	16.4	17.6	18.6	19.4	20.2	20.8	21.4	21.9	22.3	22.8	23.1	23.5	23.9	24.2	24.5	24.8	25.0	25.3	25.5	25.8	26.0
27.0	16.7	17.9	18.9	19.8	20.5	21.2	21.7	22.3	22.7	23.2	23.6	23.9	24.3	24.6	24.9	25.2	25.5	25.8	26.0	26.2	26.5
27.5	17.0	18.2	19.3	20.1	20.9	21.5	22.1	22.7	23.1	23.6	24.0	24.4	24.7	25.1	25.4	25.7	26.0	26.2	26.5	26.7	27.0
28.0	17.3	18.5	19.6	20.5	21.2	21.9	22.5	23.1	23.6	24.0	24.4	24.8	25.2	25.5	25.8	26.1	26.4	26.7	27.0	27.2	27.4
28.5	17.6	18.8	19.9	20.8	21.6	22.3	22.9	23.5	24.0	24.4	24.8	25.2	25.6	26.0	26.3	26.6	26.9	27.2	27.4	27.7	27.9
29.0	17.8	19.2	20.2	21.2	22.0	22.7	23.3	23.9	24.4	24.8	25.3	25.7	26.1	26.4	26.7	27.1	27.4	27.6	27.9	28.2	28.4
29.5	18.1	19.5	20.6	21.5	22.3	23.0	23.7	24.2	24.8	25.2	25.7	26.1	26.5	26.9	27.2	27.5	27.8	28.1	28.4	28.7	28.9
30.0	18.4	19.8	20.9	21.9	22.7	23.4	24.1	24.6	25.2	25.7	26.1	26.5	26.9	27.3	27.6	28.0	28.3	28.6	28.9	29.1	29.4
30.5	18.7	20.1	21.2	22.2	23.0	23.8	24.4	25.0	25.6	26.1	26.5	27.0	27.4	27.7	28.1	28.4	28.7	29.1	29.3	29.6	29.9
31.0	19.0	20.4	21.6	22.5	23.4	24.2	24.8	25.4	26.0	26.5	27.0	27.4	27.8	28.2	28.5	28.9	29.2	29.5	29.8	30.1	30.4
31.5	19.3	20.7	21.9	22.9	23.8	24.5	25.2	25.8	26.4	26.9	27.4	27.8	28.2	28.6	29.0	29.3	29.7	30.0	30.3	30.6	30.9
32.0	19.5	21.0	22.2	23.2	24.1	24.9	25.6	26.2	26.8	27.3	27.8	28.3	28.7	29.1	29.5	29.8	30.1	30.5	30.8	31.1	31.3
32.5	19.8	21.3	22.5	23.6	24.5	25.3	26.0	26.6	27.2	27.7	28.2	28.7	29.1	29.5	29.9	30.3	30.6	30.9	31.2	31.5	31.8
33.0	20.1	21.6	22.9	23.9	24.8	25.6	26.4	27.0	27.6	28.1	28.6	29.1	29.6	30.0	30.4	30.7	31.1	31.4	31.7	32.0	32.3
33.5	20.4	21.9	23.2	24.2	25.2	26.0	26.7	27.4	28.0	28.6	29.1	29.5	30.0	30.4	30.8	31.2	31.5	31.9	32.2	32.5	32.8
34.0	20.7	22.2	23.5	24.6	25.5	26.4	27.1	27.8	28.4	29.0	29.5	30.0	30.4	30.8	31.3	31.6	32.0	32.3	32.7	33.0	33.3
34.5	20.9	22.5	23.8	24.9	25.9	26.7	27.5	28.2	28.8	29.4	29.9	30.4	30.9	31.3	31.7	32.1	32.5	32.8	33.1	33.5	33.8
35.0	21.2	22.8	24.1	25.3	26.2	27.1	27.9	28.6	29.2	29.8	30.3	30.8	31.3	31.7	32.2	32.5	32.9	33.3	33.6	33.9	34.3
35.5	21.5	23.1	24.5	25.6	26.6	27.5	28.2	29.0	29.6	30.2	30.7	31.2	31.7	32.2	32.6	33.0	33.4	33.7	34.1	34.4	34.8
36.0	21.8	23.4	24.8	25.9	26.9	27.8	28.6	29.3	30.0	30.6	31.2	31.7	32.2	32.6	33.0	33.5	33.8	34.2	34.6	34.9	35.2
36.5	22.0	23.7	25.1	26.3	27.3	28.2	29.0	29.7	30.4	31.0	31.6	32.1	32.6	33.1	33.5	33.9	34.3	34.7	35.0	35.4	35.7
37.0	22.3	24.0	25.4	26.6	27.6	28.6	29.4	30.1	30.8	31.4	32.0	32.5	33.0	33.5	33.9	34.4	34.8	35.2	35.5	35.9	36.2
37.5	22.6	24.3	25.7	26.9	28.0	28.9	29.8	30.5	31.2	31.8	32.4	33.0	33.5	33.9	34.4	34.8	35.2	35.6	36.0	36.4	36.7
38.0	22.9	24.6	26.1	27.3	28.3	29.3	30.1	30.9	31.6	32.2	32.8	33.4	33.9	34.4	34.8	35.3	35.7	36.1	36.5	36.8	37.2
38.5	23.1	24.9	26.4	27.6	28.7	29.7	30.5	31.3	32.0	32.6	33.2	33.8	34.3	34.8	35.3	35.7	36.2	36.6	36.9	37.3	37.7
39.0	23.4	25.2	26.7	27.9	29.0	30.0	30.9	31.7	32.4	33.0	33.7	34.2	34.8	35.3	35.7	36.2	36.6	37.0	37.4	37.8	38.2
39.5	23.7	25.5	27.0	28.3	29.4	30.4	31.3	32.1	32.8	33.4	34.1	34.6	35.2	35.7	36.2	36.6	37.1	37.5	37.9	38.3	38.6
40.0	23.9	25.8	27.3	28.6	29.7	30.7	31.6	32.4	33.2	33.9	34.5	35.1	35.6	36.1	36.6	37.1	37.5	38.0	38.4	38.8	39.1
40.5	24.2	26.1	27.6	28.9	30.1	31.1	32.0	32.8	33.6	34.3	34.9	35.5	36.1	36.6	37.1	37.5	38.0	38.4	38.8	39.2	39.6
41.0	24.5	26.4	27.9	29.3	30.4	31.5	32.4	33.2	34.0	34.7	35.3	35.9	36.5	37.0	37.5	38.0	38.5	38.9	39.3	39.7	40.1
41.5	24.7	26.7	28.3	29.6	30.8	31.8	32.7	33.6	34.4	35.1	35.7	36.3	36.9	37.5	38.0	38.5	38.9	39.4	39.8	40.2	40.6
42.0	25.0	27.0	28.6	29.9	31.1	32.2	33.1	34.0	34.8	35.5	36.1	36.8	37.3	37.9	38.4	38.9	39.4	39.8	40.3	40.7	41.1
42.5	25.3	27.2	28.9	30.3	31.5	32.5	33.5	34.4	35.1	35.9	36.5	37.2	37.8	38.3	38.9	39.4	39.8	40.3	40.7	41.1	41.6
43.0	25.5	27.5	29.2	30.6	31.8	32.9	33.9	34.7	35.5	36.3	37.0	37.6	38.2	38.8	39.3	39.8	40.3	40.8	41.2	41.6	42.0
43.5	25.8	27.8	29.5	30.9	32.2	33.2	34.2	35.1	35.9	36.7	37.4	38.0	38.6	39.2	39.7	40.3	40.8	41.2	41.7	42.1	42.5
44.0	26.1	28.1	29.8	31.2	32.5	33.6	34.6	35.5	36.3	37.1	37.8	38.4	39.1	39.6	40.2	40.7	41.2	41.7	42.1	42.6	43.0
44.5	26.3	28.4	30.1	31.6	32.8	34.0	35.0	35.9	36.7	37.5	38.2	38.9	39.5	40.1	40.6	41.2	41.7	42.2	42.6	43.1	43.5
45.0	26.6	28.7	30.4	31.9	33.2	34.3	35.3	36.3	37.1	37.9	38.6	39.3	39.9	40.5	41.1	41.6	42.1	42.6	43.1	43.5	44.0
45.5	26.8	29.0	30.7	32.2	33.5	34.7	35.7	36.6	37.5	38.3	39.0	39.7	40.3	40.9	41.5	42.1	42.6	43.1	43.6	44.0	44.5
46.0	27.1	29.3	31.0	32.5	33.9	35.0	36.1	37.0	37.9	38.7	39.4	40.1	40.8	41.4	42.0	42.5	43.0	43.6	44.0	44.5	44.9
46.5	27.4	29.5	31.3	32.9	34.2	35.4	36.4	37.4	38.3	39.1	39.8	40.5	41.2	41.8	42.4	43.0	43.5	44.0	44.5	45.0	45.4
47.0	27.6	29.8	31.6	33.2	34.5	35.7	36.8	37.8	38.7	39.5	40.2	41.0	41.6	42.3	42.9	43.4	44.0	44.5	45.0	45.5	45.9
47.5	27.9	30.1	31.9	33.5	34.9	36.1	37.2	38.1	39.0	39.9	40.6	41.4	42.0	42.7	43.3	43.9	44.4	44.9	45.4	45.9	46.4
48.0	28.1	30.4	32.2	33.8	35.2	36.4	37.5	38.5	39.4	40.3	41.1	41.8	42.5	43.1	43.7	44.3	44.9	45.4	45.9	46.4	46.9
48.5	28.4	30.7	32.5	34.1	35.5	36.8	37.9	38.9	39.8	40.7	41.5	42.2	42.9	43.6	44.2	44.8	45.3	45.9	46.4	46.9	47.4
49.0	28.6	30.9	32.8	34.5	35.9	37.1	38.3	39.3	40.2	41.1	41.9	42.6	43.3	44.0	44.6	45.2	45.8	46.3	46.9	47.4	47.9
49.5	28.9	31.2	33.1	34.8	36.2	37.5	38.6	39.6	40.6	41.5	42.3	43.0	43.7	44.4	45.1	45.7	46.2	46.8	47.3	47.8	48.3
50.0	29.2	31.5	33.4	35.1	36.6	37.8	39.0	40.0	41.0	41.9	42.7	43.4	44.2	44.9	45.5	46.1	46.7	47.3	47.8	48.3	48.8

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR POST OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	2.9	3.2	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.9	4.9
5.5	3.2	3.5	3.7	3.9	4.1	4.2	4.3	4.5	4.6	4.7	4.8	4.8	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4
6.0	3.5	3.8	4.0	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.7	5.7	5.8	5.8	5.9
6.5	3.8	4.1	4.4	4.6	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.3	6.3	6.4
7.0	4.1	4.4	4.7	5.0	5.2	5.4	5.5	5.7	5.8	6.0	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.7	6.7	6.8	6.9
7.5	4.4	4.7	5.1	5.3	5.6	5.8	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.4
8.0	4.7	5.1	5.4	5.7	5.9	6.1	6.3	6.5	6.7	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.8
8.5	5.0	5.4	5.7	6.0	6.3	6.5	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.3
9.0	5.3	5.7	6.1	6.4	6.7	6.9	7.1	7.3	7.5	7.7	7.8	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.7	8.8
9.5	5.5	6.0	6.4	6.8	7.1	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.5	8.6	8.8	8.9	9.0	9.1	9.1	9.2	9.3
10.0	5.8	6.4	6.8	7.1	7.4	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8
10.5	6.1	6.7	7.1	7.5	7.8	8.1	8.3	8.6	8.8	8.9	9.1	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3
11.0	6.4	7.0	7.5	7.8	8.2	8.5	8.7	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.3	10.4	10.5	10.6	10.7	10.8
11.5	6.7	7.3	7.8	8.2	8.6	8.9	9.1	9.4	9.6	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.9	11.0	11.1	11.2	11.3
12.0	7.0	7.6	8.1	8.6	8.9	9.3	9.5	9.8	10.0	10.2	10.4	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.6	11.7	11.8
12.5	7.3	8.0	8.5	8.9	9.3	9.6	9.9	10.2	10.4	10.7	10.9	11.1	11.2	11.4	11.5	11.7	11.8	11.9	12.0	12.2	12.3
13.0	7.6	8.3	8.8	9.3	9.7	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.5	12.6	12.8
13.5	7.9	8.6	9.2	9.7	10.1	10.4	10.8	11.0	11.3	11.5	11.7	11.9	12.1	12.3	12.5	12.6	12.8	12.9	13.0	13.1	13.2
14.0	8.2	9.0	9.5	10.0	10.5	10.8	11.2	11.4	11.7	12.0	12.2	12.4	12.6	12.8	12.9	13.1	13.2	13.4	13.5	13.6	13.7
14.5	8.5	9.3	9.9	10.4	10.8	11.2	11.6	11.9	12.1	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.7	13.8	14.0	14.1	14.2
15.0	8.8	9.6	10.2	10.8	11.2	11.6	12.0	12.3	12.6	12.8	13.1	13.3	13.5	13.7	13.9	14.0	14.2	14.3	14.5	14.6	14.7
15.5	9.1	9.9	10.6	11.1	11.6	12.0	12.4	12.7	13.0	13.3	13.5	13.7	13.9	14.1	14.3	14.5	14.7	14.8	14.9	15.1	15.2
16.0	9.5	10.3	10.9	11.5	12.0	12.4	12.8	13.1	13.4	13.7	13.9	14.2	14.4	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.7
16.5	9.8	10.6	11.3	11.9	12.4	12.8	13.2	13.5	13.8	14.1	14.4	14.6	14.9	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.2
17.0	10.1	10.9	11.6	12.2	12.7	13.2	13.6	13.9	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.9	16.1	16.2	16.4	16.5	16.7
17.5	10.4	11.2	12.0	12.6	13.1	13.6	14.0	14.4	14.7	15.0	15.3	15.5	15.8	16.0	16.2	16.4	16.6	16.7	16.9	17.0	17.2
18.0	10.7	11.6	12.3	13.0	13.5	14.0	14.4	14.8	15.1	15.4	15.7	16.0	16.2	16.4	16.6	16.8	17.0	17.2	17.4	17.5	17.7
18.5	11.0	11.9	12.7	13.3	13.9	14.4	14.8	15.2	15.5	15.9	16.2	16.4	16.7	16.9	17.1	17.3	17.5	17.7	17.8	18.0	18.2
19.0	11.3	12.2	13.0	13.7	14.3	14.8	15.2	15.6	16.0	16.3	16.6	16.9	17.1	17.4	17.6	17.8	18.0	18.2	18.3	18.5	18.6
19.5	11.6	12.6	13.4	14.1	14.6	15.2	15.6	16.0	16.4	16.7	17.0	17.3	17.6	17.8	18.0	18.3	18.5	18.6	18.8	19.0	19.1
20.0	11.9	12.9	13.7	14.4	15.0	15.6	16.0	16.4	16.8	17.2	17.5	17.8	18.0	18.3	18.5	18.7	18.9	19.1	19.3	19.5	19.6
20.5	12.2	13.2	14.1	14.8	15.4	16.0	16.4	16.9	17.2	17.6	17.9	18.2	18.5	18.7	19.0	19.2	19.4	19.6	19.8	20.0	20.1
21.0	12.5	13.6	14.4	15.2	15.8	16.4	16.8	17.3	17.7	18.0	18.4	18.7	18.9	19.2	19.4	19.7	19.9	20.1	20.3	20.5	20.6
21.5	12.8	13.9	14.8	15.5	16.2	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.4	19.7	19.9	20.1	20.4	20.6	20.8	20.9	21.1
22.0	13.1	14.2	15.1	15.9	16.6	17.2	17.7	18.1	18.5	18.9	19.3	19.6	19.9	20.1	20.4	20.6	20.8	21.0	21.2	21.4	21.6
22.5	13.4	14.6	15.5	16.3	17.0	17.6	18.1	18.5	19.0	19.3	19.7	20.0	20.3	20.6	20.9	21.1	21.3	21.5	21.7	21.9	22.1
23.0	13.8	14.9	15.9	16.7	17.3	18.0	18.5	19.0	19.4	19.8	20.1	20.5	20.8	21.1	21.3	21.6	21.8	22.0	22.2	22.4	22.6
23.5	14.1	15.2	16.2	17.0	17.7	18.4	18.9	19.4	19.8	20.2	20.6	20.9	21.2	21.5	21.8	22.0	22.3	22.5	22.7	22.9	23.1
24.0	14.4	15.6	16.6	17.4	18.1	18.8	19.3	19.8	20.3	20.7	21.0	21.4	21.7	22.0	22.3	22.5	22.7	23.0	23.2	23.4	23.6
24.5	14.7	15.9	16.9	17.8	18.5	19.2	19.7	20.2	20.7	21.1	21.5	21.8	22.1	22.4	22.7	23.0	23.2	23.5	23.7	23.9	24.1
25.0	15.0	16.3	17.3	18.2	18.9	19.6	20.1	20.6	21.1	21.5	21.9	22.3	22.6	22.9	23.2	23.5	23.7	23.9	24.2	24.4	24.6
25.5	15.3	16.6	17.6	18.5	19.3	20.0	20.5	21.1	21.5	22.0	22.4	22.7	23.1	23.4	23.7	23.9	24.2	24.4	24.6	24.9	25.0
26.0	15.6	16.9	18.0	18.9	19.7	20.4	21.0	21.5	22.0	22.4	22.8	23.2	23.5	23.8	24.1	24.4	24.7	24.9	25.1	25.3	25.5
26.5	15.9	17.3	18.4	19.3	20.1	20.8	21.4	21.9	22.4	22.9	23.3	23.6	24.0	24.3	24.6	24.9	25.1	25.4	25.6	25.8	26.0
27.0	16.3	17.6	18.7	19.7	20.5	21.2	21.8	22.3	22.8	23.3	23.7	24.1	24.4	24.8	25.1	25.4	25.6	25.9	26.1	26.3	26.5
27.5	16.6	18.0	19.1	20.0	20.8	21.6	22.2	22.8	23.3	23.7	24.2	24.5	24.9	25.2	25.5	25.8	26.1	26.3	26.6	26.8	27.0
28.0	16.9	18.3	19.4	20.4	21.2	22.0	22.6	23.2	23.7	24.2	24.6	25.0	25.4	25.7	26.0	26.3	26.6	26.8	27.1	27.3	27.5
28.5	17.2	18.6	19.8	20.8	21.6	22.4	23.0	23.6	24.1	24.6	25.0	25.4	25.8	26.2	26.5	26.8	27.1	27.3	27.6	27.8	28.0
29.0	17.5	19.0	20.2	21.2	22.0	22.8	23.4	24.0	24.6	25.1	25.5	25.9	26.3	26.6	26.9	27.3	27.5	27.8	28.0	28.3	28.5
29.5	17.8	19.3	20.5	21.5	22.4	23.2	23.9	24.5	25.0	25.5	25.9	26.4	26.7	27.1	27.4	27.7	28.0	28.3	28.5	28.8	29.0
30.0	18.2	19.7	20.9	21.9	22.8	23.6	24.3	24.9	25.4	25.9	26.4	26.8	27.2	27.6	27.9	28.2	28.5	28.8	29.0	29.3	29.5
30.5	18.5	20.0	21.3	22.3	23.2	24.0	24.7	25.3	25.9	26.4	26.8	27.3	27.7	28.0	28.4	28.7	29.0	29.2	29.5	29.7	30.0
31.0	18.8	20.3	21.6	22.7	23.6	24.4	25.1	25.7	26.3	26.8	27.3	27.7	28.1	28.5	28.8	29.2	29.5	29.7	30.0	30.2	30.5
31.5	19.1	20.7	22.0	23.1	24.0	24.8	25.5	26.2	26.7	27.3	27.7	28.2	28.6	29.0	29.3	29.6	29.9	30.2	30.5	30.7	31.0
32.0	19.4	21.0	22.3	23.4	24.4	25.2	25.9	26.6	27.2	27.7	28.2	28.6	29.0	29.4	29.8	30.1	30.4	30.7	31.0	31.2	31.5
32.5	19.8	21.4	22.7	23.8	24.8	25.6	26.4	27.0	27.6	28.1	28.6	29.1	29.5	29.9	30.2	30.6	30.9	31.2	31.5	31.7	32.0
33.0	20.1	21.7	23.1	24.2	25.2	26.0	26.8	27.4	28.0	28.6	29.1	29.5	30.0	30.4	30.7	31.1	31.4	31.7	31.9	32.2	32.4
33.5	20.4	22.1	23.4	24.6	25.6	26.4	27.2	27.9	28.5	29.0	29.5	30.0	30.4	30.8	31.2	31.5	31.9	32.1	32.4	32.7	32.9
34.0	20.7	22.4	23.8	25.0	26.0	26.8	27.6	28.3	28.9	29.5	30.0	30.5	30.9	31.3	31.7	32.0	32.3	32.6	32.9	33.2	33.4
34.5	21.1	22.8	24.2	25.4	26.4	27.3	28.0	28.7	29.4	29.9	30.4	30.9	31.4	31.8	32.1	32.5	32.8	33.1	33.4	33.7	33.9
35.0	21.4	23.1	24.5	25.7	26.8	27.7	28.5	29.2	29.8	30.4	30.9	31.4	31.8	32.2	32.6	33.0	33.3	33.6	33.9	34.2	34.4
35.5	21.7	23.5	24.9	26.1	27.2	28.1	28.9	29.6	30.2	30.8	31.3	31.8	32.3	32.7	33.1	33.4	33.8	34.1	34.4	34.7	34.9
36.0	22.0	23.8	25.3	26.5	27.6	28.5	29.3	30.0	30.7	31.3	31.8	32.3	32.7	33.2	33.6	33.9	34.3	34.6	34.9	35.1	35.4
36.5	22.4	24.2	25.6	26.9	28.0	28.9	29.7	30.4	31.1	31.7	32.3	32.8	33.2	33.6	34.0	34.4	34.7	35.1	35.4	35.6	35.9
37.0	22.7	24.5	26.0	27.3	28.4	29.3	30.1	30.9	31.5	32.2	32.7	33.2	33.7	34.1	34.5	34.9	35.2	35.5	35.8	36.1	36.4
37.5	23.0	24.9	26.4	27.7	28.8	29.7	30.6	31.3	32.0	32.6	33.2	33.7	34.1	34.6	35.0	35.4	35.7	36.0	36.3	36.6	36.9
38.0	23.3	25.2	26.8	28.0	29.2	30.1	31.0	31.7	32.4	33.0	33.6	34.1	34.6	35.0	35.4	35.8	36.2	36.5	36.8	37.1	37.4
38.5	23.7	25.6	27.1	28.4	29.6	30.5	31.4	32.2	32.9	33.5	34.1	34.6	35.1	35.5	35.9	36.3	36.7	37.0	37.3	37.6	37.9
39.0	24.0	25.9	27.5	28.8	30.0	30.9	31.8	32.6	33.3	33.9	34.5	35.0	35.5	36.0	36.4	36.8	37.1	37.5	37.8	38.1	38.4
39.5	24.3	26.3	27.9	29.2	30.4	31.4	32.2	33.0	33.7	34.4	35.0	35.5	36.0	36.5	36.9	37.3	37.6	38.0	38.3	38.6	38.9
40.0	24.6	26.6	28.2	29.6	30.8	31.8	32.7	33.5	34.2	34.8	35.4	36.0	36.5	36.9	37.3	37.7	38.1	38.5	38.8	39.1	39.4
40.5	25.0	27.0	28.6	30.0	31.2	32.2	33.1	33.9	34.6	35.3	35.9	36.4	36.9	37.4	37.8	38.2	38.6	38.9	39.3	39.6	39.9
41.0	25.3	27.3	29.0	30.4	31.6	32.6	33.5	34.3	35.1	35.7	36.3	36.9	37.4	37.9	38.3	38.7	39.1	39.4	39.8	40.1	40.3
41.5	25.6	27.7	29.4	30.8	32.0	33.0	33.9	34.8	35.5	36.2	36.8	37.3	37.9	38.3	38.8	39.2	39.6	39.9	40.2	40.6	40.8
42.0	26.0	28.0	29.7	31.2	32.4	33.4	34.4	35.2	36.0	36.6	37.2	37.8	38.3	38.8	39.2	39.7	40.0	40.4	40.7	41.0	41.3
42.5	26.3	28.4	30.1	31.5	32.8	33.8	34.8	35.6	36.4	37.1	37.7	38.3	38.8	39.3	39.7	40.1	40.5	40.9	41.2	41.5	41.8
43.0	26.6	28.7	30.5	31.9	33.2	34.3	35.2	36.1	36.8	37.5	38.2	38.7	39.3	39.7	40.2	40.6	41.0	41.4	41.7	42.0	42.3
43.5	27.0	29.1	30.9	32.3	33.6	34.7	35.6	36.5	37.3	38.0	38.6	39.2	39.7	40.2	40.7	41.1	41.5	41.9	42.2	42.5	42.8
44.0	27.3	29.5	31.2	32.7	34.0	35.1	36.1	36.9	37.7	38.4	39.1	39.7	40.2	40.7	41.2	41.6	42.0	42.3	42.7	43.0	43.3
44.5	27.6	29.8	31.6	33.1	34.4	35.5	36.5	37.4	38.2	38.9	39.5	40.1	40.7	41.2	41.6	42.1	42.5	42.8	43.2	43.5	43.8
45.0	28.0	30.2	32.0	33.5	34.8	35.9	36.9	37.8	38.6	39.3	40.0	40.6	41.1	41.6	42.1	42.5	42.9	43.3	43.7	44.0	44.3
45.5	28.3	30.5	32.4	33.9	35.2	36.3	37.4	38.3	39.1	39.8	40.4	41.0	41.6	42.1	42.6	43.1	43.5	43.9	44.3	44.6	44.8
46.0	28.6	30.9	32.7	34.3	35.6	36.8	37.8	38.7	39.5	40.2	40.9	41.5	42.1	42.6	43.1	43.5	43.9	44.3	44.6	45.0	45.3
46.5	29.0	31.2	33.1	34.7	36.0	37.2	38.2	39.1	39.9	40.7	41.4	42.0	42.5	43.1	43.5	44.0	44.4	44.8	45.1	45.5	45.8
47.0	29.3	31.6	33.5	35.1	36.4	37.6	38.6	39.6	40.4	41.1	41.8	42.4	43.0	43.5	44.0	44.5	44.9	45.3	45.6	46.0	46.3
47.5	29.6	32.0	33.9	35.5	36.8	38.0	39.1	40.0	40.8	41.6	42.3	42.9	43.5	44.0	44.5	44.9	45.4	45.8	46.1	46.5	46.8
48.0	30.0	32.3	34.3	35.9	37.2	38.4	39.5	40.4	41.3	42.0	42.7	43.4	43.9	44.5	45.0	45.4	45.8	46.2	46.6	47.0	47.3
48.5	30.3	32.7	34.6	36.3	37.7	38.9	39.9	40.9	41.7	42.5	43.2	43.8	44.4	45.0	45.4	45.9	46.3	46.7	47.1	47.4	47.8
49.0	30.7	33.1	35.0	36.7	38.1	39.3	40.4	41.3	42.2	43.0	43.7	44.3	44.9	45.4	45.9	46.4	46.8	47.2	47.6	47.9	48.3
49.5	31.0	33.4	35.4	37.1	38.5	39.7	40.8	41.8	42.6	43.4	44.1	44.8	45.4	45.9	46.4	46.9	47.3	47.7	48.1	48.4	48.8
50.0	31.3	33.8	35.8	37.4	38.9	40.1	41.2	42.2	43.1	43.9	44.6	45.2	45.8	46.4	46.9	47.4	47.8	48.2	48.6	48.9	49.3

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BLACK OAK

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.2	3.4	3.6	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9	4.9
5.5	3.5	3.8	4.0	4.2	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.2	5.3	5.3	5.4	5.4
6.0	3.8	4.1	4.3	4.5	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9
6.5	4.2	4.5	4.7	4.9	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.3	6.3	6.4	6.4
7.0	4.5	4.8	5.1	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.7	6.8	6.8	6.9
7.5	4.8	5.1	5.4	5.6	5.9	6.0	6.2	6.3	6.4	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.3	7.3	7.4
8.0	5.1	5.5	5.8	6.0	6.2	6.4	6.6	6.7	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.8	7.9
8.5	5.4	5.8	6.1	6.4	6.6	6.8	7.0	7.2	7.3	7.4	7.5	7.7	7.8	7.8	7.9	8.0	8.1	8.2	8.2	8.3	8.4
9.0	5.7	6.1	6.5	6.7	7.0	7.2	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8
9.5	6.0	6.4	6.8	7.1	7.4	7.6	7.8	8.0	8.1	8.3	8.4	8.5	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.3	9.3
10.0	6.3	6.8	7.1	7.5	7.7	8.0	8.2	8.4	8.6	8.7	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.8
10.5	6.6	7.1	7.5	7.8	8.1	8.4	8.6	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3
11.0	6.9	7.4	7.8	8.2	8.5	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.1	10.2	10.3	10.5	10.5	10.6	10.7	10.8
11.5	7.2	7.7	8.2	8.6	8.9	9.1	9.4	9.6	9.8	10.0	10.2	10.3	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3
12.0	7.5	8.1	8.5	8.9	9.2	9.5	9.8	10.0	10.2	10.4	10.6	10.7	10.9	11.0	11.2	11.3	11.4	11.5	11.6	11.7	11.8
12.5	7.8	8.4	8.9	9.3	9.6	9.9	10.2	10.4	10.6	10.8	11.0	11.2	11.3	11.5	11.6	11.7	11.9	12.0	12.1	12.2	12.3
13.0	8.1	8.7	9.2	9.6	10.0	10.3	10.6	10.8	11.1	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.3	12.4	12.6	12.7	12.8
13.5	8.4	9.0	9.5	10.0	10.4	10.7	11.0	11.2	11.5	11.7	11.9	12.1	12.2	12.4	12.5	12.7	12.8	12.9	13.0	13.2	13.3
14.0	8.7	9.3	9.9	10.3	10.7	11.1	11.4	11.6	11.9	12.1	12.3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.5	13.6	13.7
14.5	9.0	9.6	10.2	10.7	11.1	11.4	11.8	12.0	12.3	12.5	12.7	12.9	13.1	13.3	13.4	13.6	13.7	13.9	14.0	14.1	14.2
15.0	9.2	10.0	10.5	11.0	11.5	11.8	12.2	12.4	12.7	12.9	13.2	13.4	13.6	13.7	13.9	14.1	14.2	14.3	14.5	14.6	14.7
15.5	9.5	10.3	10.9	11.4	11.8	12.2	12.5	12.8	13.1	13.4	13.6	13.8	14.0	14.2	14.4	14.5	14.7	14.8	15.0	15.1	15.2
16.0	9.8	10.6	11.2	11.7	12.2	12.6	12.9	13.2	13.5	13.8	14.0	14.2	14.4	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.7
16.5	10.1	10.9	11.5	12.1	12.5	13.0	13.3	13.6	13.9	14.2	14.4	14.7	14.9	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.2
17.0	10.4	11.2	11.9	12.4	12.9	13.3	13.7	14.0	14.3	14.6	14.9	15.1	15.3	15.5	15.7	15.9	16.1	16.2	16.4	16.5	16.7
17.5	10.7	11.5	12.2	12.8	13.3	13.7	14.1	14.4	14.7	15.0	15.3	15.5	15.8	16.0	16.2	16.4	16.5	16.7	16.9	17.0	17.2
18.0	10.9	11.8	12.5	13.1	13.6	14.1	14.5	14.8	15.2	15.5	15.7	16.0	16.2	16.4	16.6	16.8	17.0	17.2	17.3	17.5	17.7
18.5	11.2	12.1	12.8	13.5	14.0	14.5	14.9	15.2	15.6	15.9	16.1	16.4	16.6	16.9	17.1	17.3	17.5	17.6	17.8	18.0	18.1
19.0	11.5	12.4	13.2	13.8	14.3	14.8	15.2	15.6	16.0	16.3	16.6	16.8	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.6
19.5	11.8	12.7	13.5	14.1	14.7	15.2	15.6	16.0	16.4	16.7	17.0	17.3	17.5	17.8	18.0	18.2	18.4	18.6	18.8	18.9	19.1
20.0	12.1	13.0	13.8	14.5	15.1	15.6	16.0	16.4	16.8	17.1	17.4	17.7	18.0	18.2	18.4	18.7	18.9	19.1	19.2	19.4	19.6
20.5	12.3	13.3	14.1	14.8	15.4	15.9	16.4	16.8	17.2	17.5	17.8	18.1	18.4	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.1
21.0	12.6	13.6	14.5	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.5	18.8	19.1	19.3	19.6	19.8	20.0	20.2	20.4	20.6
21.5	12.9	13.9	14.8	15.5	16.1	16.7	17.1	17.6	18.0	18.3	18.7	19.0	19.3	19.5	19.8	20.0	20.3	20.5	20.7	20.9	21.1
22.0	13.1	14.2	15.1	15.8	16.5	17.0	17.5	18.0	18.4	18.7	19.1	19.4	19.7	20.0	20.2	20.5	20.7	20.9	21.2	21.4	21.5
22.5	13.4	14.5	15.4	16.2	16.8	17.4	17.9	18.4	18.8	19.2	19.5	19.8	20.1	20.4	20.7	20.9	21.2	21.4	21.6	21.9	22.1
23.0	13.7	14.8	15.7	16.5	17.2	17.8	18.3	18.7	19.2	19.6	19.9	20.3	20.6	20.9	21.1	21.4	21.6	21.8	22.1	22.3	22.5
23.5	13.9	15.1	16.0	16.8	17.5	18.1	18.6	19.1	19.6	20.0	20.3	20.7	21.0	21.3	21.6	21.8	22.1	22.3	22.6	22.8	23.0
24.0	14.2	15.4	16.3	17.2	17.9	18.5	19.0	19.5	20.0	20.4	20.8	21.1	21.4	21.7	22.0	22.3	22.6	22.8	23.0	23.3	23.5
24.5	14.5	15.7	16.7	17.5	18.2	18.8	19.4	19.9	20.4	20.8	21.2	21.5	21.9	22.2	22.5	22.8	23.0	23.3	23.5	23.8	24.0
25.0	14.7	16.0	17.0	17.8	18.5	19.2	19.8	20.3	20.7	21.2	21.6	21.9	22.3	22.6	22.9	23.2	23.5	23.7	24.0	24.2	24.5
25.5	15.0	16.3	17.3	18.1	18.9	19.5	20.1	20.7	21.1	21.6	22.0	22.4	22.7	23.1	23.4	23.7	23.9	24.2	24.5	24.7	24.9
26.0	15.3	16.5	17.6	18.5	19.2	19.9	20.5	21.0	21.5	22.0	22.4	22.8	23.2	23.5	23.8	24.1	24.4	24.7	24.9	25.2	25.4
26.5	15.5	16.8	17.9	18.8	19.6	20.3	20.9	21.4	21.9	22.4	22.8	23.2	23.6	23.9	24.3	24.6	24.9	25.1	25.4	25.7	25.9
27.0	15.8	17.1	18.2	19.1	19.9	20.6	21.2	21.8	22.3	22.8	23.2	23.6	24.0	24.4	24.7	25.0	25.3	25.6	25.9	26.2	26.4
27.5	16.0	17.4	18.5	19.4	20.3	21.0	21.6	22.2	22.7	23.2	23.6	24.0	24.4	24.8	25.1	25.5	25.8	26.1	26.4	26.6	26.9
28.0	16.3	17.7	18.8	19.8	20.6	21.3	22.0	22.6	23.1	23.6	24.0	24.5	24.9	25.2	25.6	25.9	26.2	26.5	26.8	27.1	27.4
28.5	16.5	17.9	19.1	20.1	20.9	21.7	22.3	22.9	23.5	24.0	24.5	24.9	25.3	25.7	26.0	26.4	26.7	27.0	27.3	27.6	27.9
29.0	16.8	18.2	19.4	20.4	21.3	22.0	22.7	23.3	23.9	24.4	24.9	25.3	25.7	26.1	26.5	26.8	27.2	27.5	27.8	28.1	28.3
29.5	17.0	18.5	19.7	20.7	21.6	22.4	23.1	23.7	24.3	24.8	25.3	25.7	26.1	26.6	27.0	27.4	27.7	28.1	28.4	28.7	29.0
30.0	17.3	18.8	20.0	21.0	21.9	22.7	23.4	24.1	24.6	25.2	25.7	26.1	26.5	27.0	27.4	27.8	28.2	28.5	28.9	29.2	29.5
30.5	17.5	19.1	20.3	21.4	22.3	23.1	23.8	24.4	25.0	25.6	26.1	26.5	27.0	27.4	27.8	28.2	28.6	29.0	29.3	29.7	30.0
31.0	17.8	19.3	20.6	21.7	22.6	23.4	24.1	24.8	25.4	26.0	26.5	27.0	27.4	27.8	28.3	28.7	29.1	29.4	29.8	30.1	30.5
31.5	18.0	19.6	20.9	22.0	22.9	23.8	24.5	25.2	25.8	26.4	26.9	27.4	27.8	28.3	28.7	29.1	29.5	29.9	30.2	30.6	30.9
32.0	18.3	19.9	21.2	22.3	23.3	24.1	24.9	25.5	26.2	26.8	27.3	27.8	28.3	28.7	29.1	29.6	30.0	30.3	30.7	31.1	31.4
32.5	18.5	20.1	21.5	22.6	23.6	24.4	25.2	25.9	26.6	27.1	27.7	28.2	28.7	29.1	29.6	30.0	30.4	30.8	31.2	31.5	31.9
33.0	18.8	20.4	21.8	22.9	23.9	24.8	25.6	26.3	26.9	27.5	28.1	28.6	29.1	29.6	30.0	30.4	30.8	31.3	31.6	32.0	32.4
33.5	19.0	20.7	22.0	23.2	24.2	25.1	25.9	26.7	27.3	27.9	28.5	29.0	29.5	30.0	30.4	30.9	31.3	31.7	32.1	32.5	32.8
34.0	19.2	20.9	22.3	23.5	24.6	25.5	26.3	27.0	27.7	28.3	28.9	29.4	29.9	30.4	30.9	31.3	31.7	32.2	32.6	32.9	33.3
34.5	19.5	21.2	22.6	23.8	24.9	25.8	26.6	27.4	28.1	28.7	29.3	29.8	30.4	30.8	31.3	31.7	32.2	32.6	33.0	33.4	33.8
35.0	19.7	21.5	22.9	24.1	25.2	26.1	27.0	27.8	28.5	29.1	29.7	30.3	30.8	31.3	31.7	32.2	32.6	33.1	33.5	33.9	34.3
35.5	19.9	21.7	23.2	24.4	25.5	26.5	27.3	28.1	28.8	29.5	30.1	30.7	31.2	31.7	32.2	32.6	33.1	33.5	33.9	34.3	34.7
36.0	20.2	22.0	23.5	24.7	25.8	26.8	27.7	28.5	29.2	29.9	30.5	31.1	31.6	32.1	32.6	33.1	33.5	34.0	34.4	34.8	35.2
36.5	20.4	22.2	23.8	25.0	26.2	27.2	28.0	28.8	29.6	30.3	30.9	31.5	32.0	32.5	33.0	33.5	34.0	34.4	34.9	35.3	35.7
37.0	20.6	22.5	24.0	25.3	26.5	27.5	28.4	29.2	30.0	30.6	31.3	31.9	32.4	33.0	33.5	34.0	34.4	34.9	35.3	35.7	36.2
37.5	20.9	22.8	24.3	25.6	26.8	27.8	28.7	29.6	30.3	31.0	31.7	32.3	32.9	33.4	33.9	34.4	34.9	35.3	35.8	36.2	36.6
38.0	21.1	23.0	24.6	25.9	27.1	28.2	29.1	29.9	30.7	31.4	32.1	32.7	33.3	33.8	34.3	34.8	35.3	35.8	36.2	36.7	37.1
38.5	21.3	23.3	24.9	26.2	27.4	28.5	29.4	30.3	31.1	31.8	32.5	33.1	33.7	34.2	34.8	35.3	35.8	36.2	36.7	37.1	37.6
39.0	21.5	23.5	25.2	26.5	27.7	28.8	29.8	30.6	31.4	32.2	32.9	33.5	34.1	34.7	35.2	35.7	36.2	36.7	37.1	37.6	38.1
39.5	21.8	23.8	25.4	26.8	28.1	29.1	30.1	31.0	31.8	32.6	33.2	33.9	34.5	35.1	35.6	36.2	36.7	37.1	37.6	38.1	38.5
40.0	22.0	24.0	25.7	27.1	28.4	29.5	30.5	31.4	32.2	32.9	33.6	34.3	34.9	35.5	36.1	36.6	37.1	37.6	38.1	38.5	39.0
40.5	22.2	24.3	26.0	27.4	28.7	29.8	30.8	31.7	32.5	33.3	34.0	34.7	35.3	35.9	36.5	37.0	37.6	38.1	38.5	39.0	39.4
41.0	22.4	24.5	26.2	27.7	29.0	30.1	31.1	32.1	32.9	33.7	34.4	35.1	35.7	36.4	36.9	37.5	38.0	38.5	39.0	39.5	39.9
41.5	22.6	24.8	26.5	28.0	29.3	30.4	31.5	32.4	33.3	34.1	34.8	35.5	36.2	36.8	37.4	37.9	38.5	39.0	39.5	39.9	40.4
42.0	22.9	25.0	26.8	28.3	29.6	30.8	31.8	32.8	33.6	34.4	35.2	35.9	36.6	37.2	37.8	38.4	38.9	39.4	39.9	40.4	40.9
42.5	23.1	25.3	27.0	28.6	29.9	31.1	32.2	33.1	34.0	34.8	35.6	36.3	37.0	37.6	38.2	38.8	39.4	39.9	40.4	40.9	41.4
43.0	23.3	25.5	27.3	28.9	30.2	31.4	32.5	33.5	34.4	35.2	36.0	36.7	37.4	38.0	38.6	39.2	39.8	40.3	40.9	41.4	41.8
43.5	23.5	25.7	27.6	29.2	30.5	31.7	32.8	33.8	34.7	35.6	36.4	37.1	37.8	38.5	39.1	39.7	40.2	40.8	41.3	41.8	42.3
44.0	23.7	26.0	27.8	29.4	30.8	32.1	33.2	34.2	35.1	35.9	36.7	37.5	38.2	38.9	39.5	40.1	40.7	41.3	41.8	42.3	42.8
44.5	23.9	26.2	28.1	29.7	31.1	32.4	33.5	34.5	35.5	36.3	37.1	37.9	38.6	39.3	39.9	40.5	41.1	41.7	42.3	42.8	43.3
45.0	24.1	26.5	28.4	30.0	31.4	32.7	33.8	34.9	35.8	36.7	37.5	38.3	39.0	39.7	40.4	41.0	41.6	42.2	42.7	43.2	43.8
45.5	24.3	26.7	28.6	30.3	31.7	33.0	34.2	35.2	36.2	37.1	37.9	38.7	39.4	40.1	40.8	41.4	42.0	42.6	43.2	43.7	44.2
46.0	24.6	26.9	28.9	30.6	32.0	33.3	34.5	35.6	36.5	37.4	38.3	39.1	39.8	40.5	41.2	41.9	42.5	43.1	43.6	44.2	44.7
46.5	24.8	27.2	29.1	30.8	32.3	33.6	34.8	35.9	36.9	37.8	38.7	39.5	40.2	40.9	41.6	42.3	42.9	43.5	44.1	44.7	45.2
47.0	25.0	27.4	29.4	31.1	32.6	33.9	35.1	36.2	37.2	38.2	39.0	39.9	40.6	41.4	42.1	42.7	43.4	44.0	44.6	45.1	45.7
47.5	25.2	27.6	29.7	31.4	32.9	34.3	35.5	36.6	37.6	38.5	39.4	40.3	41.0	41.8	42.5	43.2	43.8	44.4	45.0	45.6	46.2
48.0	25.4	27.9	29.9	31.7	33.2	34.6	35.8	36.9	38.0	38.9	39.8	40.6	41.4	42.2	42.9	43.6	44.2	44.9	45.5	46.1	46.6
48.5	25.6	28.1	30.2	31.9	33.5	34.9	36.1	37.3	38.3	39.3	40.2	41.0	41.8	42.6	43.3	44.0	44.7	45.3	45.9	46.5	47.1
49.0	25.8	28.3	30.4	32.2	33.8	35.2	36.5	37.6	38.7	39.6	40.6	41.4	42.2	43.0	43.7	44.5	45.1	45.8	46.4	47.0	47.6
49.5	26.0	28.5	30.7	32.5	34.1	35.5	36.8	37.9	39.0	40.0	40.9	41.8	42.6	43.4	44.2	44.9	45.6	46.2	46.9	47.5	48.1
50.0	26.2	28.8	30.9	32.8	34.4	35.8	37.1	38.3	39.4	40.4	41.3	42.2	43.0	43.8	44.6	45.3	46.0	46.7	47.3	48.0	48.6

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR SCRUB OAKS

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.2	3.5	3.7	3.9	4.0	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.7	4.7	4.8	4.8	4.9	4.9	4.9	4.9	5.0
5.5	3.5	3.8	4.1	4.3	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.5
6.0	3.8	4.2	4.5	4.7	4.9	5.0	5.1	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9	5.9
6.5	4.2	4.5	4.8	5.1	5.3	5.4	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4	6.4
7.0	4.5	4.9	5.2	5.5	5.7	5.9	6.0	6.1	6.3	6.4	6.4	6.5	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9
7.5	4.8	5.3	5.6	5.9	6.1	6.3	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.3	7.4	7.4	7.4
8.0	5.2	5.6	6.0	6.3	6.5	6.7	6.9	7.0	7.2	7.3	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9	7.9
8.5	5.5	6.0	6.4	6.7	6.9	7.1	7.3	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.3	8.3	8.4	8.4	8.4
9.0	5.8	6.3	6.7	7.1	7.3	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9	8.9	8.9
9.5	6.1	6.7	7.1	7.5	7.8	8.0	8.2	8.4	8.5	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.2	9.3	9.3	9.4	9.4
10.0	6.5	7.1	7.5	7.9	8.2	8.4	8.6	8.8	9.0	9.1	9.2	9.4	9.4	9.5	9.6	9.7	9.7	9.8	9.8	9.9	9.9
10.5	6.8	7.4	7.9	8.3	8.6	8.9	9.1	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3	10.3	10.4	10.4
11.0	7.2	7.8	8.3	8.7	9.0	9.3	9.5	9.7	9.9	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.8	10.9	10.9
11.5	7.5	8.2	8.7	9.1	9.4	9.7	10.0	10.2	10.4	10.5	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3	11.3	11.4	11.4
12.0	7.8	8.5	9.1	9.5	9.9	10.2	10.4	10.6	10.8	11.0	11.1	11.3	11.4	11.5	11.5	11.6	11.7	11.8	11.8	11.9	11.9
12.5	8.2	8.9	9.5	9.9	10.3	10.6	10.9	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3	12.4	12.4
13.0	8.5	9.3	9.8	10.3	10.7	11.0	11.3	11.5	11.7	11.9	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.7	12.8	12.9	12.9
13.5	8.8	9.6	10.2	10.7	11.1	11.5	11.7	12.0	12.2	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3	13.4	13.4
14.0	9.2	10.0	10.6	11.1	11.5	11.9	12.2	12.4	12.7	12.8	13.0	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.8	13.9	13.9
14.5	9.5	10.4	11.0	11.5	12.0	12.3	12.6	12.9	13.1	13.3	13.5	13.6	13.8	13.9	14.0	14.1	14.2	14.2	14.3	14.3	14.4
15.0	9.9	10.7	11.4	12.0	12.4	12.8	13.1	13.3	13.6	13.8	14.0	14.1	14.2	14.4	14.5	14.6	14.6	14.7	14.8	14.8	14.9
15.5	10.2	11.1	11.8	12.4	12.8	13.2	13.5	13.8	14.0	14.3	14.4	14.6	14.7	14.9	15.0	15.1	15.1	15.2	15.3	15.3	15.4
16.0	10.6	11.5	12.2	12.8	13.2	13.6	14.0	14.3	14.5	14.7	14.9	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.8	15.9
16.5	10.9	11.9	12.6	13.2	13.7	14.1	14.4	14.7	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.3	16.4
17.0	11.3	12.2	13.0	13.6	14.1	14.5	14.9	15.2	15.4	15.7	15.9	16.0	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.8	16.9
17.5	11.6	12.6	13.4	14.0	14.5	15.0	15.3	15.6	15.9	16.1	16.3	16.5	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.3	17.4
18.0	12.0	13.0	13.8	14.4	15.0	15.4	15.8	16.1	16.4	16.6	16.8	17.0	17.1	17.3	17.4	17.5	17.6	17.7	17.8	17.8	17.9
18.5	12.3	13.4	14.2	14.9	15.4	15.9	16.2	16.6	16.8	17.1	17.3	17.5	17.6	17.8	17.9	18.0	18.1	18.2	18.3	18.3	18.4
19.0	12.7	13.8	14.6	15.3	15.8	16.3	16.7	17.0	17.3	17.6	17.8	18.0	18.1	18.3	18.4	18.5	18.6	18.7	18.8	18.8	18.9
19.5	13.0	14.1	15.0	15.7	16.3	16.7	17.1	17.5	17.8	18.0	18.2	18.4	18.6	18.8	18.9	19.0	19.1	19.2	19.3	19.3	19.4
20.0	13.4	14.5	15.4	16.1	16.7	17.2	17.6	17.9	18.2	18.5	18.7	18.9	19.1	19.2	19.4	19.5	19.6	19.7	19.8	19.8	19.9
20.5	13.7	14.9	15.8	16.5	17.1	17.6	18.0	18.4	18.7	19.0	19.2	19.4	19.6	19.7	19.9	20.0	20.1	20.2	20.3	20.3	20.4
21.0	14.1	15.3	16.2	17.0	17.6	18.1	18.5	18.9	19.2	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.6	20.7	20.8	20.8	20.9
21.5	14.4	15.7	16.6	17.4	18.0	18.5	19.0	19.3	19.7	19.9	20.2	20.4	20.6	20.7	20.9	21.0	21.1	21.2	21.3	21.3	21.4
22.0	14.8	16.1	17.0	17.8	18.4	19.0	19.4	19.8	20.1	20.4	20.6	20.9	21.0	21.2	21.3	21.5	21.6	21.7	21.8	21.8	21.9
22.5	15.2	16.4	17.4	18.2	18.9	19.4	19.9	20.3	20.6	20.9	21.1	21.3	21.5	21.7	21.8	22.0	22.1	22.2	22.3	22.3	22.4
23.0	15.5	16.8	17.8	18.7	19.3	19.9	20.3	20.7	21.1	21.4	21.6	21.8	22.0	22.2	22.3	22.5	22.6	22.7	22.8	22.8	22.9
23.5	15.9	17.2	18.3	19.1	19.8	20.3	20.8	21.2	21.5	21.8	22.1	22.3	22.5	22.7	22.8	23.0	23.1	23.2	23.3	23.3	23.4
24.0	16.3	17.6	18.7	19.5	20.2	20.8	21.3	21.7	22.0	22.3	22.6	22.8	23.0	23.2	23.3	23.5	23.6	23.7	23.8	23.8	23.9
24.5	16.6	18.0	19.1	19.9	20.6	21.2	21.7	22.1	22.5	22.8	23.1	23.3	23.5	23.7	23.8	24.0	24.1	24.2	24.3	24.3	24.4
25.0	17.0	18.4	19.5	20.4	21.1	21.7	22.2	22.6	23.0	23.3	23.6	23.8	24.0	24.2	24.3	24.4	24.6	24.7	24.8	24.8	24.9
25.5	17.3	18.8	19.9	20.8	21.5	22.1	22.6	23.1	23.4	23.8	24.0	24.3	24.5	24.7	24.8	24.9	25.1	25.2	25.3	25.3	25.4
26.0	17.7	19.2	20.3	21.2	22.0	22.6	23.1	23.5	23.9	24.2	24.5	24.8	25.0	25.2	25.3	25.4	25.6	25.7	25.8	25.8	25.9
26.5	18.1	19.6	20.7	21.7	22.4	23.0	23.6	24.0	24.4	24.7	25.0	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.3	26.3	26.4
27.0	18.5	20.0	21.2	22.1	22.9	23.5	24.0	24.5	24.9	25.2	25.5	25.7	26.0	26.1	26.3	26.4	26.6	26.7	26.8	26.8	26.9
27.5	18.8	20.4	21.6	22.5	23.3	24.0	24.5	25.0	25.4	25.7	26.0	26.2	26.5	26.6	26.8	26.9	27.1	27.2	27.3	27.3	27.4
28.0	19.2	20.8	22.0	23.0	23.8	24.4	25.0	25.4	25.8	26.2	26.5	26.7	26.9	27.1	27.3	27.4	27.6	27.7	27.8	27.8	27.9
28.5	19.6	21.2	22.4	23.4	24.2	24.9	25.4	25.9	26.3	26.7	27.0	27.2	27.4	27.6	27.8	27.9	28.1	28.2	28.3	28.3	28.4
29.0	19.9	21.6	22.8	23.8	24.7	25.3	25.9	26.4	26.8	27.2	27.5	27.7	27.9	28.1	28.3	28.4	28.6	28.7	28.8	28.8	28.9
29.5	20.3	22.0	23.3	24.3	25.1	25.8	26.4	26.9	27.3	27.6	27.9	28.2	28.4	28.6	28.8	28.9	29.1	29.2	29.3	29.3	29.4
30.0	20.7	22.4	23.7	24.7	25.6	26.3	26.8	27.3	27.8	28.1	28.4	28.7	28.9	29.1	29.3	29.4	29.6	29.7	29.8	29.8	29.9
30.5	21.1	22.8	24.1	25.2	26.0	26.7	27.3	27.8	28.2	28.6	28.9	29.2	29.4	29.6	29.8	29.9	30.1	30.2	30.3	30.3	30.4
31.0	21.4	23.2	24.5	25.6	26.5	27.2	27.8	28.3	28.7	29.1	29.4	29.7	29.9	30.1	30.3	30.4	30.6	30.7	30.8	30.8	30.9
31.5	21.8	23.6	25.0	26.0	26.9	27.7	28.3	28.8	29.2	29.6	29.9	30.2	30.4	30.6	30.8	30.9	31.1	31.2	31.3	31.3	31.4
32.0	22.2	24.0	25.4	26.5	27.4	28.1	28.7	29.3	29.7	30.1	30.4	30.7	30.9	31.1	31.3	31.5	31.6	31.7	31.8	31.8	31.9
32.5	22.6	24.4	25.8	26.9	27.8	28.6	29.2	29.7	30.2	30.6	30.9	31.2	31.4	31.6	31.8	32.0	32.1	32.2	32.3	32.4	32.4
33.0	23.0	24.8	26.2	27.4	28.3	29.0	29.7	30.2	30.7	31.1	31.4	31.7	31.9	32.1	32.3	32.5	32.6	32.7	32.8	32.9	32.9
33.5	23.3	25.2	26.7	27.8	28.7	29.5	30.2	30.7	31.2	31.6	31.9	32.2	32.4	32.6	32.8	33.0	33.1	33.2	33.3	33.4	33.4
34.0	23.7	25.6	27.1	28.3	29.2	30.0	30.6	31.2	31.6	32.0	32.4	32.7	32.9	33.1	33.3	33.5	33.6	33.7	33.8	33.9	33.9
34.5	24.1	26.0	27.5	28.7	29.7	30.5	31.1	31.7	32.1	32.5	32.9	33.2	33.4	33.6	33.8	34.0	34.1	34.2	34.3	34.4	34.4
35.0	24.5	26.4	28.0	29.2	30.1	30.9	31.6	32.2	32.6	33.0	33.4	33.7	33.9	34.1	34.3	34.5	34.6	34.7	34.8	34.9	34.9
35.5	24.9	26.9	28.4	29.6	30.6	31.4	32.1	32.6	33.1	33.5	33.9	34.2	34.4	34.6	34.8	35.0	35.1	35.2	35.3	35.4	35.4
36.0	25.3	27.3	28.8	30.0	31.0	31.9	32.5	33.1	33.6	34.0	34.4	34.7	34.9	35.1	35.3	35.5	35.6	35.7	35.8	35.9	35.9
36.5	25.7	27.7	29.3	30.5	31.5	32.3	33.0	33.6	34.1	34.5	34.9	35.2	35.4	35.6	35.8	36.0	36.1	36.2	36.3	36.4	36.4
37.0	26.1	28.1	29.7	31.0	32.0	32.8	33.5	34.1	34.6	35.0	35.4	35.7	35.9	36.2	36.3	36.5	36.6	36.7	36.8	36.9	36.9
37.5	26.4	28.5	30.1	31.4	32.4	33.3	34.0	34.6	35.1	35.5	35.9	36.2	36.4	36.7	36.8	37.0	37.1	37.2	37.3	37.4	37.4
38.0	26.8	28.9	30.6	31.9	32.9	33.8	34.5	35.1	35.6	36.0	36.4	36.7	36.9	37.2	37.3	37.5	37.6	37.7	37.8	37.9	37.9
38.5	27.2	29.4	31.0	32.3	33.4	34.2	35.0	35.6	36.1	36.5	36.9	37.2	37.4	37.7	37.9	38.0	38.1	38.2	38.3	38.4	38.4
39.0	27.6	29.8	31.4	32.8	33.8	34.7	35.4	36.1	36.6	37.0	37.4	37.7	38.0	38.2	38.4	38.5	38.7	38.8	38.8	38.9	38.9
39.5	28.0	30.2	31.9	33.2	34.3	35.2	35.9	36.5	37.1	37.5	37.9	38.2	38.5	38.7	38.9	39.0	39.2	39.3	39.3	39.4	39.5
40.0	28.4	30.6	32.3	33.7	34.8	35.7	36.4	37.0	37.6	38.0	38.4	38.7	39.0	39.2	39.4	39.5	39.7	39.8	39.9	39.9	40.0
40.5	28.8	31.0	32.8	34.1	35.2	36.1	36.9	37.5	38.1	38.5	38.9	39.2	39.5	39.7	39.9	40.0	40.2	40.3	40.4	40.4	40.5
41.0	29.2	31.5	33.2	34.6	35.7	36.6	37.4	38.0	38.6	39.0	39.4	39.7	40.0	40.2	40.4	40.6	40.7	40.8	40.9	40.9	41.0
41.5	29.6	31.9	33.7	35.1	36.2	37.1	37.9	38.5	39.0	39.5	39.9	40.2	40.5	40.7	40.9	41.1	41.2	41.3	41.4	41.4	41.5
42.0	30.0	32.3	34.1	35.5	36.7	37.6	38.4	39.0	39.5	40.0	40.4	40.7	41.0	41.2	41.4	41.6	41.7	41.8	41.9	41.9	42.0
42.5	30.4	32.8	34.6	36.0	37.1	38.1	38.8	39.5	40.0	40.5	40.9	41.2	41.5	41.7	41.9	42.1	42.2	42.3	42.4	42.4	42.5
43.0	30.8	33.2	35.0	36.4	37.6	38.5	39.3	40.0	40.5	41.0	41.4	41.7	42.0	42.2	42.4	42.6	42.7	42.8	42.9	42.9	43.0
43.5	31.2	33.6	35.4	36.9	38.1	39.0	39.8	40.5	41.0	41.5	41.9	42.2	42.5	42.8	42.9	43.1	43.2	43.3	43.4	43.5	43.5
44.0	31.6	34.0	35.9	37.4	38.5	39.5	40.3	41.0	41.5	42.0	42.4	42.8	43.0	43.3	43.5	43.6	43.7	43.8	43.9	44.0	44.0
44.5	32.0	34.5	36.3	37.8	39.0	40.0	40.8	41.5	42.1	42.5	42.9	43.3	43.5	43.8	44.0	44.1	44.2	44.3	44.4	44.5	44.5
45.0	32.4	34.9	36.8	38.3	39.5	40.5	41.3	42.0	42.6	43.0	43.4	43.8	44.1	44.3	44.5	44.6	44.8	44.9	44.9	45.0	45.0
45.5	32.8	35.3	37.2	38.8	40.0	41.0	41.8	42.5	43.1	43.5	43.9	44.3	44.6	44.8	45.0	45.1	45.3	45.4	45.4	45.5	45.5
46.0	33.3	35.8	37.7	39.2	40.5	41.5	42.3	43.0	43.6	44.0	44.5	44.8	45.1	45.3	45.5	45.7	45.8	45.9	45.9	46.0	46.0
46.5	33.7	36.2	38.2	39.7	40.9	42.0	42.8	43.5	44.1	44.6	45.0	45.3	45.6	45.8	46.0	46.2	46.3	46.4	46.5	46.5	46.5
47.0	34.1	36.6	38.6	40.2	41.4	42.4	43.3	44.0	44.6	45.1	45.5	45.8	46.1	46.3	46.5	46.7	46.8	46.9	47.0	47.0	47.0
47.5	34.5	37.1	39.1	40.6	41.9	42.9	43.8	44.5	45.1	45.6	46.0	46.3	46.6	46.8	47.0	47.2	47.3	47.4	47.5	47.5	47.5
48.0	34.9	37.5	39.5	41.1	42.4	43.4	44.3	45.0	45.6	46.1	46.5	46.8	47.1	47.4	47.6	47.7	47.8	47.9	48.0	48.0	48.0
48.5	35.3	38.0	40.0	41.6	42.9	43.9	44.8	45.5	46.1	46.6	47.0	47.4	47.6	47.9	48.1	48.2	48.3	48.4	48.5	48.5	48.5
49.0	35.7	38.4	40.4	42.1	43.3	44.4	45.3	46.0	46.6	47.1	47.5	47.9	48.2	48.4	48.6	48.7	48.9	48.9	49.0	49.0	49.0
49.5	36.1	38.8	40.9	42.5	43.8	44.9	45.8	46.5	47.1	47.6	48.0	48.4	48.7	48.9	49.1	49.3	49.4	49.5	49.5	49.5	49.6
50.0	36.6	39.3	41.4	43.0	44.3	45.4	46.3	47.0	47.6	48.1	48.5	48.9	49.2	49.4	49.6	49.8	49.9	50.0	50.0	50.1	50.1

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BLACK LOCUST

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.9	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.8	4.9	4.9	4.9	4.9	5.0
5.5	4.3	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.4
6.0	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9
6.5	5.1	5.3	5.4	5.5	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.2	6.3	6.3	6.4	6.4	6.4	6.4
7.0	5.5	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9
7.5	5.8	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0	7.0	7.1	7.2	7.2	7.2	7.3	7.3	7.4	7.4	7.4
8.0	6.2	6.4	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.8	7.9	7.9
8.5	6.6	6.8	7.0	7.2	7.3	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4	8.4
9.0	6.9	7.2	7.4	7.6	7.7	7.9	8.0	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.9	8.9
9.5	7.3	7.6	7.8	8.0	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.1	9.2	9.3	9.3	9.3	9.4
10.0	7.7	8.0	8.2	8.4	8.6	8.7	8.9	9.0	9.1	9.2	9.3	9.3	9.4	9.5	9.6	9.6	9.7	9.7	9.8	9.8	9.9
10.5	8.0	8.3	8.6	8.8	9.0	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4
11.0	8.4	8.7	9.0	9.2	9.4	9.6	9.7	9.8	10.0	10.1	10.2	10.3	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8	10.9
11.5	8.7	9.1	9.4	9.6	9.8	10.0	10.1	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.0	11.1	11.2	11.2	11.3	11.4
12.0	9.1	9.5	9.7	10.0	10.2	10.4	10.5	10.7	10.8	10.9	11.1	11.2	11.3	11.3	11.4	11.5	11.6	11.7	11.7	11.8	11.9
12.5	9.4	9.8	10.1	10.4	10.6	10.8	11.0	11.1	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.3
13.0	9.8	10.2	10.5	10.8	11.0	11.2	11.4	11.5	11.7	11.8	11.9	12.1	12.2	12.3	12.4	12.4	12.5	12.6	12.7	12.8	12.8
13.5	10.1	10.5	10.9	11.2	11.4	11.6	11.8	12.0	12.1	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3
14.0	10.5	10.9	11.3	11.5	11.8	12.0	12.2	12.4	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.8
14.5	10.8	11.3	11.6	11.9	12.2	12.4	12.6	12.8	13.0	13.1	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	11.2	11.6	12.0	12.3	12.6	12.8	13.0	13.2	13.4	13.6	13.7	13.8	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8
15.5	11.5	12.0	12.4	12.7	13.0	13.2	13.4	13.6	13.8	14.0	14.1	14.3	14.4	14.5	14.7	14.8	14.9	15.0	15.1	15.2	15.3
16.0	11.8	12.3	12.7	13.1	13.4	13.6	13.9	14.1	14.2	14.4	14.6	14.7	14.9	15.0	15.1	15.2	15.4	15.5	15.6	15.7	15.8
16.5	12.2	12.7	13.1	13.5	13.8	14.0	14.3	14.5	14.7	14.8	15.0	15.2	15.3	15.5	15.6	15.7	15.8	15.9	16.1	16.2	16.3
17.0	12.5	13.0	13.5	13.8	14.1	14.4	14.7	14.9	15.1	15.3	15.4	15.6	15.8	15.9	16.0	16.2	16.3	16.4	16.5	16.6	16.7
17.5	12.8	13.4	13.8	14.2	14.5	14.8	15.1	15.3	15.5	15.7	15.9	16.1	16.2	16.4	16.5	16.6	16.8	16.9	17.0	17.1	17.2
18.0	13.2	13.7	14.2	14.6	14.9	15.2	15.5	15.7	15.9	16.1	16.3	16.5	16.7	16.8	17.0	17.1	17.2	17.4	17.5	17.6	17.7
18.5	13.5	14.1	14.5	14.9	15.3	15.6	15.9	16.1	16.3	16.6	16.7	16.9	17.1	17.3	17.4	17.6	17.7	17.8	18.0	18.1	18.2
19.0	13.8	14.4	14.9	15.3	15.7	16.0	16.3	16.5	16.8	17.0	17.2	17.4	17.5	17.7	17.9	18.0	18.2	18.3	18.4	18.6	18.7
19.5	14.1	14.7	15.2	15.7	16.0	16.4	16.7	16.9	17.2	17.4	17.6	17.8	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2
20.0	14.4	15.1	15.6	16.0	16.4	16.8	17.1	17.3	17.6	17.8	18.0	18.2	18.4	18.6	18.8	18.9	19.1	19.2	19.4	19.5	19.7
20.5	14.8	15.4	15.9	16.4	16.8	17.1	17.4	17.7	18.0	18.2	18.5	18.7	18.9	19.0	19.2	19.4	19.6	19.7	19.9	20.0	20.2
21.0	15.1	15.7	16.3	16.8	17.2	17.5	17.8	18.1	18.4	18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.0	20.2	20.3	20.5	20.6
21.5	15.4	16.1	16.6	17.1	17.5	17.9	18.2	18.5	18.8	19.1	19.3	19.5	19.7	19.9	20.1	20.3	20.5	20.7	20.8	21.0	21.1
22.0	15.7	16.4	17.0	17.5	17.9	18.3	18.6	18.9	19.2	19.5	19.7	20.0	20.2	20.4	20.6	20.8	21.0	21.1	21.3	21.5	21.6
22.5	16.0	16.7	17.3	17.8	18.3	18.7	19.0	19.3	19.6	19.9	20.1	20.4	20.6	20.8	21.0	21.2	21.4	21.6	21.8	21.9	22.1
23.0	16.3	17.1	17.7	18.2	18.6	19.0	19.4	19.7	20.0	20.3	20.6	20.8	21.0	21.3	21.5	21.7	21.9	22.1	22.2	22.4	22.6
23.5	16.6	17.4	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	21.0	21.2	21.5	21.7	21.9	22.1	22.3	22.5	22.7	22.9	23.1
24.0	16.9	17.7	18.3	18.9	19.4	19.8	20.2	20.5	20.8	21.1	21.4	21.7	21.9	22.1	22.4	22.6	22.8	23.0	23.2	23.4	23.6
24.5	17.2	18.0	18.7	19.2	19.7	20.1	20.5	20.9	21.2	21.5	21.8	22.1	22.3	22.6	22.8	23.0	23.3	23.5	23.7	23.9	24.0
25.0	17.5	18.3	19.0	19.6	20.1	20.5	20.9	21.3	21.6	21.9	22.2	22.5	22.8	23.0	23.3	23.5	23.7	23.9	24.1	24.3	24.5
25.5	17.8	18.6	19.3	19.9	20.4	20.9	21.3	21.7	22.0	22.3	22.6	22.9	23.2	23.5	23.7	23.9	24.2	24.4	24.6	24.8	25.0
26.0	18.1	18.9	19.7	20.3	20.8	21.2	21.7	22.1	22.4	22.7	23.1	23.3	23.6	23.9	24.1	24.4	24.6	24.9	25.1	25.3	25.5
26.5	18.4	19.3	20.0	20.6	21.1	21.6	22.0	22.4	22.8	23.1	23.5	23.8	24.1	24.3	24.6	24.8	25.1	25.3	25.5	25.8	26.0
27.0	18.7	19.6	20.3	20.9	21.5	22.0	22.4	22.8	23.2	23.5	23.9	24.2	24.5	24.8	25.0	25.3	25.5	25.8	26.0	26.2	26.5
27.5	19.0	19.9	20.6	21.3	21.8	22.3	22.8	23.2	23.6	23.9	24.3	24.6	24.9	25.2	25.5	25.7	26.0	26.2	26.5	26.7	27.0
28.0	19.2	20.2	20.9	21.6	22.2	22.7	23.2	23.6	24.0	24.3	24.7	25.0	25.3	25.6	25.9	26.2	26.5	26.7	27.0	27.2	27.4
28.5	19.5	20.5	21.3	21.9	22.5	23.0	23.5	24.0	24.4	24.7	25.1	25.4	25.8	26.1	26.4	26.6	26.9	27.2	27.4	27.7	27.9
29.0	19.8	20.8	21.6	22.3	22.9	23.4	23.9	24.3	24.7	25.1	25.5	25.8	26.2	26.5	26.8	27.1	27.4	27.6	27.9	28.1	28.4
29.5	20.1	21.1	21.9	22.6	23.2	23.8	24.2	24.7	25.1	25.5	25.9	26.3	26.6	26.9	27.2	27.5	27.8	28.1	28.4	28.6	28.9
30.0	20.3	21.4	22.2	22.9	23.5	24.1	24.6	25.1	25.5	25.9	26.3	26.7	27.0	27.3	27.7	28.0	28.3	28.6	28.8	29.1	29.4
30.5	20.6	21.6	22.5	23.2	23.9	24.5	25.0	25.5	25.9	26.3	26.7	27.1	27.4	27.8	28.1	28.4	28.7	29.0	29.3	29.6	29.8
31.0	20.9	21.9	22.8	23.6	24.2	24.8	25.3	25.8	26.3	26.7	27.1	27.5	27.9	28.2	28.5	28.9	29.2	29.5	29.8	30.0	30.3
31.5	21.2	22.2	23.1	23.9	24.5	25.1	25.7	26.2	26.7	27.1	27.5	27.9	28.3	28.6	29.0	29.3	29.6	29.9	30.2	30.5	30.8
32.0	21.4	22.5	23.4	24.2	24.9	25.5	26.0	26.6	27.0	27.5	27.9	28.3	28.7	29.0	29.4	29.7	30.1	30.4	30.7	31.0	31.3
32.5	21.7	22.8	23.7	24.5	25.2	25.8	26.4	26.9	27.4	27.9	28.3	28.7	29.1	29.5	29.8	30.2	30.5	30.8	31.2	31.5	31.8
33.0	21.9	23.1	24.0	24.8	25.5	26.2	26.8	27.3	27.8	28.3	28.7	29.1	29.5	29.9	30.3	30.6	31.0	31.3	31.6	31.9	32.3
33.5	22.2	23.3	24.3	25.1	25.9	26.5	27.1	27.7	28.2	28.6	29.1	29.5	29.9	30.3	30.7	31.1	31.4	31.8	32.1	32.4	32.7
34.0	22.5	23.6	24.6	25.4	26.2	26.8	27.5	28.0	28.5	29.0	29.5	29.9	30.3	30.7	31.1	31.5	31.9	32.2	32.6	32.9	33.2
34.5	22.7	23.9	24.9	25.7	26.5	27.2	27.8	28.4	28.9	29.4	29.9	30.3	30.7	31.2	31.6	31.9	32.3	32.7	33.0	33.4	33.7
35.0	23.0	24.2	25.2	26.1	26.8	27.5	28.1	28.7	29.3	29.8	30.3	30.7	31.2	31.6	32.0	32.4	32.8	33.1	33.5	33.8	34.2
35.5	23.2	24.4	25.5	26.4	27.1	27.8	28.5	29.1	29.6	30.2	30.7	31.1	31.6	32.0	32.4	32.8	33.2	33.6	33.9	34.3	34.7
36.0	23.5	24.7	25.8	26.7	27.5	28.2	28.8	29.4	30.0	30.5	31.0	31.5	32.0	32.4	32.8	33.2	33.6	34.0	34.4	34.8	35.1
36.5	23.7	25.0	26.0	27.0	27.8	28.5	29.2	29.8	30.4	30.9	31.4	31.9	32.4	32.8	33.3	33.7	34.1	34.5	34.9	35.2	35.6
37.0	23.9	25.2	26.3	27.3	28.1	28.8	29.5	30.1	30.7	31.3	31.8	32.3	32.8	33.2	33.7	34.1	34.5	34.9	35.3	35.7	36.1
37.5	24.2	25.5	26.6	27.6	28.4	29.2	29.9	30.5	31.1	31.7	32.2	32.7	33.2	33.7	34.1	34.5	35.0	35.4	35.8	36.2	36.6
38.0	24.4	25.8	26.9	27.9	28.7	29.5	30.2	30.8	31.5	32.0	32.6	33.1	33.6	34.1	34.5	35.0	35.4	35.8	36.2	36.7	37.0
38.5	24.7	26.0	27.2	28.1	29.0	29.8	30.5	31.2	31.8	32.4	33.0	33.5	34.0	34.5	35.0	35.4	35.9	36.3	36.7	37.1	37.5
39.0	24.9	26.3	27.4	28.4	29.3	30.1	30.9	31.5	32.2	32.8	33.3	33.9	34.4	34.9	35.4	35.8	36.3	36.7	37.2	37.6	38.0
39.5	25.1	26.5	27.7	28.7	29.6	30.4	31.2	31.9	32.5	33.1	33.7	34.3	34.8	35.3	35.8	36.3	36.7	37.2	37.6	38.1	38.5
40.0	25.4	26.8	28.0	29.0	29.9	30.8	31.5	32.2	32.9	33.5	34.1	34.7	35.2	35.7	36.2	36.7	37.2	37.6	38.1	38.5	39.0
40.5	25.6	27.0	28.2	29.3	30.2	31.1	31.8	32.6	33.2	33.9	34.5	35.0	35.6	36.1	36.6	37.1	37.6	38.1	38.5	39.0	39.4
41.0	25.8	27.3	28.5	29.6	30.5	31.4	32.2	32.9	33.6	34.2	34.8	35.4	36.0	36.5	37.1	37.6	38.1	38.5	39.0	39.5	39.9
41.5	26.0	27.5	28.8	29.9	30.8	31.7	32.5	33.2	33.9	34.6	35.2	35.8	36.4	36.9	37.5	38.0	38.5	39.0	39.5	39.9	40.4
42.0	26.3	27.8	29.0	30.1	31.1	32.0	32.8	33.6	34.3	35.0	35.6	36.2	36.8	37.3	37.9	38.4	38.9	39.4	39.9	40.4	40.9
42.5	26.5	28.0	29.3	30.4	31.4	32.3	33.1	33.9	34.6	35.3	36.0	36.6	37.2	37.7	38.3	38.8	39.4	39.9	40.4	40.9	41.3
43.0	26.7	28.2	29.6	30.7	31.7	32.6	33.5	34.2	35.0	35.7	36.3	37.0	37.6	38.2	38.7	39.3	39.8	40.3	40.8	41.3	41.8
43.5	26.9	28.5	29.8	31.0	32.0	32.9	33.8	34.6	35.3	36.0	36.7	37.3	38.0	38.6	39.1	39.7	40.2	40.8	41.3	41.8	42.3
44.0	27.1	28.7	30.1	31.2	32.3	33.2	34.1	34.9	35.7	36.4	37.1	37.7	38.4	39.0	39.5	40.1	40.7	41.2	41.7	42.3	42.8
44.5	27.3	28.9	30.3	31.5	32.6	33.5	34.4	35.2	36.0	36.7	37.4	38.1	38.7	39.4	40.0	40.5	41.1	41.7	42.2	42.7	43.2
45.0	27.5	29.2	30.6	31.8	32.9	33.8	34.7	35.6	36.4	37.1	37.8	38.5	39.1	39.8	40.4	41.0	41.5	42.1	42.6	43.2	43.7
45.5	27.7	29.4	30.8	32.0	33.1	34.1	35.0	35.9	36.7	37.4	38.2	38.9	39.5	40.2	40.8	41.4	42.0	42.5	43.1	43.6	44.2
46.0	27.9	29.6	31.1	32.3	33.4	34.4	35.4	36.2	37.0	37.8	38.5	39.2	39.9	40.6	41.2	41.8	42.4	43.0	43.6	44.1	44.7
46.5	28.1	29.9	31.3	32.6	33.7	34.7	35.7	36.5	37.4	38.1	38.9	39.6	40.3	41.0	41.6	42.2	42.8	43.4	44.0	44.6	45.1
47.0	28.3	30.1	31.5	32.8	34.0	35.0	36.0	36.9	37.7	38.5	39.3	40.0	40.7	41.4	42.0	42.6	43.3	43.9	44.5	45.0	45.6
47.5	28.5	30.3	31.8	33.1	34.2	35.3	36.3	37.2	38.0	38.8	39.6	40.3	41.1	41.7	42.4	43.1	43.7	44.3	44.9	45.5	46.1
48.0	28.7	30.5	32.0	33.3	34.5	35.6	36.6	37.5	38.4	39.2	40.0	40.7	41.4	42.1	42.8	43.5	44.1	44.7	45.4	46.0	46.6
48.5	28.9	30.7	32.3	33.6	34.8	35.9	36.9	37.8	38.7	39.5	40.3	41.1	41.8	42.5	43.2	43.9	44.5	45.2	45.8	46.4	47.0
49.0	29.1	30.9	32.5	33.9	35.1	36.2	37.2	38.1	39.0	39.9	40.7	41.5	42.2	42.9	43.6	44.3	45.0	45.6	46.3	46.9	47.5
49.5	29.3	31.2	32.7	34.1	35.3	36.4	37.5	38.4	39.4	40.2	41.0	41.8	42.6	43.3	44.0	44.7	45.4	46.1	46.7	47.4	48.0
50.0	29.5	31.4	33.0	34.3	35.6	36.7	37.8	38.8	39.7	40.6	41.4	42.2	43.0	43.7	44.4	45.1	45.8	46.5	47.2	47.8	48.4

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR BASSWOOD

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.8	4.9	4.9	4.9	4.9	4.9	5.0	5.0
5.5	4.2	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.5	5.5
6.0	4.6	4.9	5.0	5.2	5.3	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	5.9	6.0
6.5	5.0	5.2	5.4	5.6	5.7	5.8	5.9	6.0	6.1	6.1	6.2	6.2	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.5
7.0	5.4	5.6	5.8	6.0	6.1	6.3	6.4	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.9	6.9	6.9	7.0
7.5	5.8	6.0	6.3	6.4	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.2	7.3	7.3	7.4	7.4	7.4	7.4	7.5
8.0	6.1	6.4	6.7	6.9	7.0	7.1	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.8	7.9	7.9	7.9	7.9
8.5	6.5	6.8	7.1	7.3	7.4	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.2	8.3	8.3	8.4	8.4	8.4	8.4
9.0	6.9	7.2	7.5	7.7	7.9	8.0	8.1	8.3	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.8	8.8	8.8	8.9	8.9	8.9
9.5	7.2	7.6	7.9	8.1	8.3	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.2	9.3	9.3	9.3	9.4	9.4	9.4
10.0	7.6	8.0	8.3	8.5	8.7	8.9	9.0	9.2	9.3	9.4	9.4	9.5	9.6	9.6	9.7	9.7	9.8	9.8	9.9	9.9	9.9
10.5	8.0	8.4	8.7	8.9	9.1	9.3	9.5	9.6	9.7	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	10.4	10.4	10.4
11.0	8.4	8.8	9.1	9.4	9.6	9.8	9.9	10.0	10.2	10.3	10.4	10.4	10.5	10.6	10.6	10.7	10.8	10.8	10.8	10.9	10.9
11.5	8.7	9.2	9.5	9.8	10.0	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.2	11.3	11.3	11.4	11.4
12.0	9.1	9.5	9.9	10.2	10.4	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.5	11.6	11.7	11.7	11.8	11.8	11.9	11.9
12.5	9.4	9.9	10.3	10.6	10.8	11.0	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.3	12.4	12.4
13.0	9.8	10.3	10.7	11.0	11.3	11.5	11.7	11.8	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.6	12.7	12.7	12.8	12.9	12.9
13.5	10.2	10.7	11.1	11.4	11.7	11.9	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.0	13.1	13.2	13.2	13.3	13.3	13.4
14.0	10.5	11.1	11.5	11.8	12.1	12.3	12.5	12.7	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.8	13.8	13.9
14.5	10.9	11.4	11.9	12.2	12.5	12.8	13.0	13.2	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.1	14.2	14.3	14.3	14.4
15.0	11.2	11.8	12.3	12.6	12.9	13.2	13.4	13.6	13.8	13.9	14.0	14.2	14.3	14.4	14.5	14.5	14.6	14.7	14.8	14.8	14.9
15.5	11.6	12.2	12.7	13.0	13.3	13.6	13.8	14.0	14.2	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.2	15.3	15.4
16.0	12.0	12.6	13.0	13.4	13.8	14.0	14.3	14.5	14.7	14.8	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.7	15.8	15.9
16.5	12.3	12.9	13.4	13.8	14.2	14.5	14.7	14.9	15.1	15.3	15.4	15.6	15.7	15.8	15.9	16.0	16.1	16.1	16.2	16.3	16.4
17.0	12.7	13.3	13.8	14.2	14.6	14.9	15.1	15.4	15.5	15.7	15.9	16.0	16.1	16.2	16.4	16.5	16.5	16.6	16.7	16.8	16.8
17.5	13.0	13.7	14.2	14.6	15.0	15.3	15.6	15.8	16.0	16.2	16.3	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.3
18.0	13.4	14.1	14.6	15.0	15.4	15.7	16.0	16.2	16.4	16.6	16.8	16.9	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.8
18.5	13.7	14.4	15.0	15.4	15.8	16.1	16.4	16.7	16.9	17.1	17.2	17.4	17.5	17.7	17.8	17.9	18.0	18.1	18.2	18.2	18.3
19.0	14.1	14.8	15.4	15.8	16.2	16.6	16.8	17.1	17.3	17.5	17.7	17.8	18.0	18.1	18.2	18.4	18.5	18.6	18.7	18.7	18.8
19.5	14.4	15.2	15.7	16.2	16.6	17.0	17.3	17.5	17.8	18.0	18.1	18.3	18.5	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.3
20.0	14.7	15.5	16.1	16.6	17.0	17.4	17.7	18.0	18.2	18.4	18.6	18.8	18.9	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8
20.5	15.1	15.9	16.5	17.0	17.4	17.8	18.1	18.4	18.6	18.9	19.0	19.2	19.4	19.5	19.7	19.8	19.9	20.0	20.1	20.2	20.3
21.0	15.4	16.2	16.9	17.4	17.9	18.2	18.5	18.8	19.1	19.3	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.5	20.6	20.7	20.8
21.5	15.8	16.6	17.3	17.8	18.3	18.6	19.0	19.3	19.5	19.7	19.9	20.1	20.3	20.5	20.6	20.7	20.9	21.0	21.1	21.2	21.3
22.0	16.1	17.0	17.6	18.2	18.7	19.0	19.4	19.7	19.9	20.2	20.4	20.6	20.8	20.9	21.1	21.2	21.3	21.5	21.6	21.7	21.8
22.5	16.4	17.3	18.0	18.6	19.1	19.5	19.8	20.1	20.4	20.6	20.8	21.0	21.2	21.4	21.5	21.7	21.8	21.9	22.1	22.2	22.3
23.0	16.8	17.7	18.4	19.0	19.5	19.9	20.2	20.5	20.8	21.1	21.3	21.5	21.7	21.8	22.0	22.2	22.3	22.4	22.5	22.6	22.8
23.5	17.1	18.0	18.8	19.4	19.9	20.3	20.6	21.0	21.3	21.5	21.7	21.9	22.1	22.3	22.5	22.6	22.8	22.9	23.0	23.1	23.2
24.0	17.5	18.4	19.1	19.7	20.3	20.7	21.1	21.4	21.7	21.9	22.2	22.4	22.6	22.8	22.9	23.1	23.2	23.4	23.5	23.6	23.7
24.5	17.8	18.8	19.5	20.1	20.7	21.1	21.5	21.8	22.1	22.4	22.6	22.8	23.0	23.2	23.4	23.6	23.7	23.9	24.0	24.1	24.2
25.0	18.1	19.1	19.9	20.5	21.1	21.5	21.9	22.2	22.5	22.8	23.1	23.3	23.5	23.7	23.9	24.0	24.2	24.3	24.5	24.6	24.7
25.5	18.5	19.5	20.3	20.9	21.4	21.9	22.3	22.7	23.0	23.3	23.5	23.7	24.0	24.2	24.3	24.5	24.7	24.8	25.0	25.1	25.2
26.0	18.8	19.8	20.6	21.3	21.8	22.3	22.7	23.1	23.4	23.7	24.0	24.2	24.4	24.6	24.8	25.0	25.1	25.3	25.4	25.6	25.7
26.5	19.1	20.2	21.0	21.7	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.6	24.9	25.1	25.3	25.4	25.6	25.8	25.9	26.1	26.2
27.0	19.4	20.5	21.4	22.0	22.6	23.1	23.6	23.9	24.3	24.6	24.8	25.1	25.3	25.5	25.7	25.9	26.1	26.2	26.4	26.5	26.7
27.5	19.8	20.9	21.7	22.4	23.0	23.5	24.0	24.4	24.7	25.0	25.3	25.5	25.8	26.0	26.2	26.4	26.6	26.7	26.9	27.0	27.2
28.0	20.1	21.2	22.1	22.8	23.4	23.9	24.4	24.8	25.1	25.4	25.7	26.0	26.2	26.5	26.7	26.9	27.0	27.2	27.4	27.5	27.7
28.5	20.4	21.5	22.4	23.2	23.8	24.3	24.8	25.2	25.5	25.9	26.2	26.4	26.7	26.9	27.1	27.3	27.5	27.7	27.8	28.0	28.2
29.0	20.7	21.9	22.8	23.6	24.2	24.7	25.2	25.6	26.0	26.3	26.6	26.9	27.1	27.4	27.6	27.8	28.0	28.2	28.3	28.5	28.6
29.5	21.1	22.2	23.2	23.9	24.6	25.1	25.6	26.0	26.4	26.7	27.0	27.3	27.6	27.8	28.0	28.3	28.5	28.6	28.8	29.0	29.1
30.0	21.4	22.6	23.5	24.3	25.0	25.5	26.0	26.4	26.8	27.2	27.5	27.8	28.0	28.3	28.5	28.7	28.9	29.1	29.3	29.5	29.6
30.5	21.7	22.9	23.9	24.7	25.3	25.9	26.4	26.9	27.2	27.6	27.9	28.2	28.5	28.7	29.0	29.2	29.4	29.6	29.8	29.9	30.1
31.0	22.0	23.3	24.2	25.0	25.7	26.3	26.8	27.3	27.7	28.0	28.4	28.7	28.9	29.2	29.4	29.7	29.9	30.1	30.3	30.4	30.6
31.5	22.3	23.6	24.6	25.4	26.1	26.7	27.2	27.7	28.1	28.5	28.8	29.1	29.4	29.6	29.9	30.1	30.3	30.5	30.7	30.9	31.1
32.0	22.6	23.9	25.0	25.8	26.5	27.1	27.6	28.1	28.5	28.9	29.2	29.5	29.8	30.1	30.3	30.6	30.8	31.0	31.2	31.4	31.6
32.5	23.0	24.3	25.3	26.2	26.9	27.5	28.0	28.5	28.9	29.3	29.7	30.0	30.3	30.6	30.8	31.0	31.3	31.5	31.7	31.9	32.1
33.0	23.3	24.6	25.7	26.5	27.3	27.9	28.4	28.9	29.3	29.7	30.1	30.4	30.7	31.0	31.3	31.5	31.7	32.0	32.2	32.4	32.6
33.5	23.6	24.9	26.0	26.9	27.6	28.3	28.8	29.3	29.8	30.2	30.5	30.9	31.2	31.5	31.7	32.0	32.2	32.4	32.7	32.9	33.0
34.0	23.9	25.3	26.4	27.3	28.0	28.7	29.2	29.7	30.2	30.6	31.0	31.3	31.6	31.9	32.2	32.4	32.7	32.9	33.1	33.3	33.5
34.5	24.2	25.6	26.7	27.6	28.4	29.1	29.6	30.1	30.6	31.0	31.4	31.7	32.1	32.4	32.6	32.9	33.2	33.4	33.6	33.8	34.0
35.0	24.5	25.9	27.1	28.0	28.8	29.4	30.0	30.5	31.0	31.4	31.8	32.2	32.5	32.8	33.1	33.4	33.6	33.9	34.1	34.3	34.5
35.5	24.8	26.3	27.4	28.3	29.1	29.8	30.4	31.0	31.4	31.9	32.3	32.6	33.0	33.3	33.6	33.8	34.1	34.3	34.6	34.8	35.0
36.0	25.1	26.6	27.7	28.7	29.5	30.2	30.8	31.4	31.8	32.3	32.7	33.1	33.4	33.7	34.0	34.3	34.6	34.8	35.0	35.3	35.5
36.5	25.4	26.9	28.1	29.1	29.9	30.6	31.2	31.8	32.3	32.7	33.1	33.5	33.8	34.2	34.5	34.8	35.0	35.3	35.5	35.8	36.0
37.0	25.7	27.2	28.4	29.4	30.3	31.0	31.6	32.2	32.7	33.1	33.5	33.9	34.3	34.6	34.9	35.2	35.5	35.7	36.0	36.2	36.5
37.5	26.0	27.6	28.8	29.8	30.6	31.4	32.0	32.6	33.1	33.5	34.0	34.4	34.7	35.1	35.4	35.7	36.0	36.2	36.5	36.7	37.0
38.0	26.3	27.9	29.1	30.1	31.0	31.7	32.4	33.0	33.5	34.0	34.4	34.8	35.2	35.5	35.8	36.1	36.4	36.7	37.0	37.2	37.4
38.5	26.6	28.2	29.5	30.5	31.4	32.1	32.8	33.4	33.9	34.4	34.8	35.2	35.6	36.0	36.3	36.6	36.9	37.2	37.4	37.7	37.9
39.0	26.9	28.5	29.8	30.8	31.7	32.5	33.2	33.8	34.3	34.8	35.2	35.7	36.0	36.4	36.7	37.1	37.4	37.6	37.9	38.2	38.4
39.5	27.2	28.8	30.1	31.2	32.1	32.9	33.6	34.2	34.7	35.2	35.7	36.1	36.5	36.8	37.2	37.5	37.8	38.1	38.4	38.6	38.9
40.0	27.5	29.2	30.5	31.6	32.5	33.3	34.0	34.6	35.1	35.6	36.1	36.5	36.9	37.3	37.6	38.0	38.3	38.6	38.9	39.1	39.4
40.5	27.8	29.5	30.8	31.9	32.8	33.6	34.3	35.0	35.5	36.1	36.5	37.0	37.4	37.7	38.1	38.4	38.7	39.0	39.3	39.6	39.9
41.0	28.1	29.8	31.1	32.3	33.2	34.0	34.7	35.4	35.9	36.5	36.9	37.4	37.8	38.2	38.5	38.9	39.2	39.5	39.8	40.1	40.4
41.5	28.4	30.1	31.5	32.6	33.6	34.4	35.1	35.8	36.4	36.9	37.4	37.8	38.2	38.6	39.0	39.3	39.7	40.0	40.3	40.6	40.9
42.0	28.7	30.4	31.8	33.0	33.9	34.8	35.5	36.2	36.8	37.3	37.8	38.2	38.7	39.1	39.4	39.8	40.1	40.5	40.8	41.1	41.3
42.5	29.0	30.7	32.1	33.3	34.3	35.1	35.9	36.6	37.2	37.7	38.2	38.7	39.1	39.5	39.9	40.3	40.6	40.9	41.2	41.5	41.8
43.0	29.3	31.0	32.5	33.6	34.6	35.5	36.3	37.0	37.6	38.1	38.6	39.1	39.5	40.0	40.3	40.7	41.1	41.4	41.7	42.0	42.3
43.5	29.6	31.4	32.8	34.0	35.0	35.9	36.7	37.3	38.0	38.5	39.1	39.5	40.0	40.4	40.8	41.2	41.5	41.9	42.2	42.5	42.8
44.0	29.8	31.7	33.1	34.3	35.4	36.3	37.0	37.7	38.4	38.9	39.5	40.0	40.4	40.8	41.2	41.6	42.0	42.3	42.7	43.0	43.3
44.5	30.1	32.0	33.5	34.7	35.7	36.6	37.4	38.1	38.8	39.4	39.9	40.4	40.8	41.3	41.7	42.1	42.4	42.8	43.1	43.5	43.8
45.0	30.4	32.3	33.8	35.0	36.1	37.0	37.8	38.5	39.2	39.8	40.3	40.8	41.3	41.7	42.1	42.5	42.9	43.3	43.6	43.9	44.3
45.5	30.7	32.6	34.1	35.4	36.4	37.4	38.2	38.9	39.6	40.2	40.7	41.2	41.7	42.2	42.6	43.0	43.4	43.7	44.1	44.4	44.7
46.0	31.0	32.9	34.4	35.7	36.8	37.7	38.6	39.3	40.0	40.6	41.1	41.7	42.1	42.6	43.0	43.4	43.8	44.2	44.6	44.9	45.2
46.5	31.3	33.2	34.8	36.0	37.1	38.1	38.9	39.7	40.4	41.0	41.6	42.1	42.6	43.0	43.5	43.9	44.3	44.7	45.0	45.4	45.7
47.0	31.5	33.5	35.1	36.4	37.5	38.5	39.3	40.1	40.8	41.4	42.0	42.5	43.0	43.5	43.9	44.3	44.7	45.1	45.5	45.9	46.2
47.5	31.8	33.8	35.4	36.7	37.8	38.8	39.7	40.5	41.2	41.8	42.4	42.9	43.4	43.9	44.4	44.8	45.2	45.6	46.0	46.3	46.7
48.0	32.1	34.1	35.7	37.1	38.2	39.2	40.1	40.8	41.6	42.2	42.8	43.4	43.9	44.4	44.8	45.2	45.7	46.1	46.4	46.8	47.2
48.5	32.4	34.4	36.0	37.4	38.5	39.5	40.4	41.2	41.9	42.6	43.2	43.8	44.3	44.8	45.3	45.7	46.1	46.5	46.9	47.3	47.6
49.0	32.6	34.7	36.3	37.7	38.9	39.9	40.8	41.6	42.3	43.0	43.6	44.2	44.7	45.2	45.7	46.2	46.6	47.0	47.4	47.8	48.1
49.5	32.9	35.0	36.7	38.1	39.2	40.3	41.2	42.0	42.7	43.4	44.0	44.6	45.2	45.7	46.1	46.6	47.0	47.5	47.9	48.2	48.6
50.0	33.2	35.3	37.0	38.4	39.6	40.6	41.5	42.4	43.1	43.8	44.4	45.0	45.6	46.1	46.6	47.1	47.5	47.9	48.3	48.7	49.1

EQUATION ESTIMATES OF D.B.H. BY STUMP DOB AND STUMP HEIGHT FOR ELM

STUMP DOB	STUMP HEIGHT (IN FEET)																				
	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
5.0	3.4	3.6	3.8	3.9	4.1	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
5.5	3.7	4.0	4.2	4.3	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.4
6.0	4.1	4.3	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9
6.5	4.4	4.7	4.9	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4
7.0	4.8	5.1	5.3	5.5	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9
7.5	5.1	5.4	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0	7.1	7.2	7.2	7.3	7.3	7.4	7.4
8.0	5.4	5.8	6.0	6.3	6.5	6.6	6.8	6.9	7.0	7.2	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9
8.5	5.8	6.1	6.4	6.7	6.9	7.1	7.2	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.2	8.3	8.3	8.4
9.0	6.1	6.5	6.8	7.1	7.3	7.5	7.6	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.9
9.5	6.4	6.8	7.2	7.4	7.7	7.9	8.1	8.2	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.3	9.3	9.4
10.0	6.8	7.2	7.5	7.8	8.1	8.3	8.5	8.6	8.8	8.9	9.0	9.2	9.3	9.4	9.4	9.5	9.6	9.7	9.7	9.8	9.9
10.5	7.1	7.5	7.9	8.2	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3	10.4
11.0	7.4	7.9	8.3	8.6	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.2	10.3	10.4	10.5	10.6	10.6	10.7	10.8	10.8
11.5	7.7	8.2	8.6	9.0	9.3	9.5	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.3
12.0	8.1	8.6	9.0	9.4	9.7	9.9	10.1	10.3	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.8
12.5	8.4	8.9	9.4	9.7	10.1	10.3	10.6	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.2	12.3
13.0	8.7	9.3	9.7	10.1	10.5	10.7	11.0	11.2	11.4	11.6	11.7	11.9	12.0	12.1	12.3	12.4	12.5	12.6	12.7	12.7	12.8
13.5	9.0	9.6	10.1	10.5	10.8	11.1	11.4	11.6	11.8	12.0	12.2	12.3	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3
14.0	9.4	10.0	10.5	10.9	11.2	11.5	11.8	12.0	12.3	12.4	12.6	12.8	12.9	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8
14.5	9.7	10.3	10.8	11.3	11.6	11.9	12.2	12.5	12.7	12.9	13.1	13.2	13.4	13.5	13.7	13.8	13.9	14.0	14.1	14.2	14.3
15.0	10.0	10.7	11.2	11.6	12.0	12.3	12.6	12.9	13.1	13.3	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.5	14.6	14.7	14.8
15.5	10.3	11.0	11.6	12.0	12.4	12.8	13.0	13.3	13.5	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.8	15.0	15.1	15.2	15.3
16.0	10.7	11.4	11.9	12.4	12.8	13.2	13.5	13.7	14.0	14.2	14.4	14.6	14.8	14.9	15.1	15.2	15.3	15.4	15.6	15.7	15.8
16.5	11.0	11.7	12.3	12.8	13.2	13.6	13.9	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.8	15.9	16.0	16.2	16.3
17.0	11.3	12.1	12.7	13.2	13.6	14.0	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.5	16.6	16.7
17.5	11.6	12.4	13.0	13.5	14.0	14.4	14.7	15.0	15.3	15.5	15.7	15.9	16.1	16.3	16.5	16.6	16.7	16.9	17.0	17.1	17.2
18.0	12.0	12.7	13.4	13.9	14.4	14.8	15.1	15.4	15.7	15.9	16.2	16.4	16.6	16.8	16.9	17.1	17.2	17.4	17.5	17.6	17.7
18.5	12.3	13.1	13.7	14.3	14.8	15.2	15.5	15.8	16.1	16.4	16.6	16.8	17.0	17.2	17.4	17.5	17.7	17.8	18.0	18.1	18.2
19.0	12.6	13.4	14.1	14.7	15.1	15.6	15.9	16.3	16.5	16.8	17.1	17.3	17.5	17.7	17.8	18.0	18.2	18.3	18.5	18.6	18.7
19.5	12.9	13.8	14.5	15.0	15.5	16.0	16.3	16.7	17.0	17.2	17.5	17.7	17.9	18.1	18.3	18.5	18.6	18.8	18.9	19.1	19.2
20.0	13.2	14.1	14.8	15.4	15.9	16.4	16.7	17.1	17.4	17.7	17.9	18.2	18.4	18.6	18.8	19.0	19.1	19.3	19.4	19.6	19.7
20.5	13.5	14.4	15.2	15.8	16.3	16.8	17.2	17.5	17.8	18.1	18.4	18.6	18.8	19.0	19.2	19.4	19.6	19.8	19.9	20.0	20.2
21.0	13.9	14.8	15.5	16.2	16.7	17.2	17.6	17.9	18.2	18.5	18.8	19.1	19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.5	20.7
21.5	14.2	15.1	15.9	16.5	17.1	17.5	18.0	18.3	18.7	19.0	19.3	19.5	19.7	20.0	20.2	20.4	20.5	20.7	20.9	21.0	21.2
22.0	14.5	15.5	16.2	16.9	17.5	17.9	18.4	18.8	19.1	19.4	19.7	20.0	20.2	20.4	20.6	20.8	21.0	21.2	21.4	21.5	21.7
22.5	14.8	15.8	16.6	17.3	17.8	18.3	18.8	19.2	19.5	19.8	20.1	20.4	20.6	20.9	21.1	21.3	21.5	21.7	21.8	22.0	22.1
23.0	15.1	16.1	16.9	17.6	18.2	18.7	19.2	19.6	19.9	20.3	20.6	20.8	21.1	21.3	21.6	21.8	22.0	22.1	22.3	22.5	22.6
23.5	15.4	16.5	17.3	18.0	18.6	19.1	19.6	20.0	20.4	20.7	21.0	21.3	21.6	21.8	22.0	22.2	22.4	22.6	22.8	23.0	23.1
24.0	15.7	16.8	17.7	18.4	19.0	19.5	20.0	20.4	20.8	21.1	21.4	21.7	22.0	22.3	22.5	22.7	22.9	23.1	23.3	23.5	23.6
24.5	16.0	17.1	18.0	18.7	19.4	19.9	20.4	20.8	21.2	21.6	21.9	22.2	22.5	22.7	22.9	23.2	23.4	23.6	23.8	23.9	24.1
25.0	16.4	17.5	18.4	19.1	19.8	20.3	20.8	21.2	21.6	22.0	22.3	22.6	22.9	23.2	23.4	23.6	23.8	24.1	24.2	24.4	24.6
25.5	16.7	17.8	18.7	19.5	20.1	20.7	21.2	21.7	22.1	22.4	22.8	23.1	23.4	23.6	23.9	24.1	24.3	24.5	24.7	24.9	25.1
26.0	17.0	18.1	19.1	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.5	23.8	24.1	24.3	24.6	24.8	25.0	25.2	25.4	25.6
26.5	17.3	18.5	19.4	20.2	20.9	21.5	22.0	22.5	22.9	23.3	23.6	24.0	24.3	24.5	24.8	25.0	25.3	25.5	25.7	25.9	26.1
27.0	17.6	18.8	19.8	20.6	21.3	21.9	22.4	22.9	23.3	23.7	24.1	24.4	24.7	25.0	25.3	25.5	25.7	26.0	26.2	26.4	26.6
27.5	17.9	19.1	20.1	20.9	21.6	22.3	22.8	23.3	23.7	24.1	24.5	24.8	25.1	25.4	25.7	26.0	26.2	26.4	26.6	26.9	27.0
28.0	18.2	19.4	20.5	21.3	22.0	22.7	23.2	23.7	24.2	24.6	24.9	25.3	25.6	25.9	26.2	26.4	26.7	26.9	27.1	27.3	27.5
28.5	18.5	19.8	20.8	21.7	22.4	23.0	23.6	24.1	24.6	25.0	25.4	25.7	26.0	26.3	26.6	26.9	27.1	27.4	27.6	27.8	28.0
29.0	18.8	20.1	21.1	22.0	22.8	23.4	24.0	24.5	25.0	25.4	25.8	26.2	26.5	26.8	27.1	27.4	27.6	27.9	28.1	28.3	28.5
29.5	19.1	20.4	21.5	22.4	23.2	23.8	24.4	24.9	25.4	25.8	26.2	26.6	26.9	27.3	27.5	27.8	28.1	28.3	28.6	28.8	29.0
30.0	19.4	20.8	21.8	22.7	23.5	24.2	24.8	25.3	25.8	26.3	26.7	27.0	27.4	27.7	28.0	28.3	28.6	28.8	29.1	29.3	29.5
30.5	19.7	21.1	22.2	23.1	23.9	24.6	25.2	25.7	26.2	26.7	27.1	27.5	27.8	28.2	28.5	28.8	29.0	29.3	29.5	29.8	30.0
31.0	20.0	21.4	22.5	23.5	24.3	25.0	25.6	26.2	26.7	27.1	27.5	27.9	28.3	28.6	28.9	29.2	29.5	29.8	30.0	30.2	30.5
31.5	20.3	21.7	22.9	23.8	24.7	25.4	26.0	26.6	27.1	27.5	28.0	28.4	28.7	29.1	29.4	29.7	30.0	30.2	30.5	30.7	31.0
32.0	20.6	22.1	23.2	24.2	25.0	25.8	26.4	27.0	27.5	28.0	28.4	28.8	29.2	29.5	29.8	30.1	30.4	30.7	31.0	31.2	31.5
32.5	20.9	22.4	23.6	24.5	25.4	26.1	26.8	27.4	27.9	28.4	28.8	29.2	29.6	30.0	30.3	30.6	30.9	31.2	31.4	31.7	31.9
33.0	21.2	22.7	23.9	24.9	25.8	26.5	27.2	27.8	28.3	28.8	29.3	29.7	30.1	30.4	30.8	31.1	31.4	31.7	31.9	32.2	32.4
33.5	21.5	23.0	24.2	25.3	26.1	26.9	27.6	28.2	28.7	29.2	29.7	30.1	30.5	30.9	31.2	31.5	31.8	32.1	32.4	32.7	32.9
34.0	21.8	23.3	24.6	25.6	26.5	27.3	28.0	28.6	29.1	29.7	30.1	30.5	30.9	31.3	31.7	32.0	32.3	32.6	32.9	33.2	33.4
34.5	22.1	23.7	24.9	26.0	26.9	27.7	28.4	29.0	29.6	30.1	30.5	31.0	31.4	31.8	32.1	32.5	32.8	33.1	33.4	33.6	33.9
35.0	22.4	24.0	25.3	26.3	27.2	28.1	28.8	29.4	30.0	30.5	31.0	31.4	31.8	32.2	32.6	32.9	33.2	33.6	33.8	34.1	34.4
35.5	22.7	24.3	25.6	26.7	27.6	28.4	29.2	29.8	30.4	30.9	31.4	31.9	32.3	32.7	33.0	33.4	33.7	34.0	34.3	34.6	34.9
36.0	23.0	24.6	25.9	27.0	28.0	28.8	29.5	30.2	30.8	31.3	31.8	32.3	32.7	33.1	33.5	33.8	34.2	34.5	34.8	35.1	35.4
36.5	23.3	24.9	26.3	27.4	28.4	29.2	29.9	30.6	31.2	31.8	32.3	32.7	33.2	33.6	34.0	34.3	34.7	35.0	35.3	35.6	35.9
37.0	23.6	25.2	26.6	27.7	28.7	29.6	30.3	31.0	31.6	32.2	32.7	33.2	33.6	34.0	34.4	34.8	35.1	35.4	35.8	36.1	36.3
37.5	23.9	25.6	26.9	28.1	29.1	30.0	30.7	31.4	32.0	32.6	33.1	33.6	34.0	34.5	34.9	35.2	35.6	35.9	36.2	36.5	36.8
38.0	24.2	25.9	27.3	28.4	29.5	30.3	31.1	31.8	32.4	33.0	33.5	34.0	34.5	34.9	35.3	35.7	36.1	36.4	36.7	37.0	37.3
38.5	24.5	26.2	27.6	28.8	29.8	30.7	31.5	32.2	32.8	33.4	34.0	34.5	34.9	35.4	35.8	36.2	36.5	36.9	37.2	37.5	37.8
39.0	24.7	26.5	27.9	29.1	30.2	31.1	31.9	32.6	33.3	33.9	34.4	34.9	35.4	35.8	36.2	36.6	37.0	37.3	37.7	38.0	38.3
39.5	25.0	26.8	28.3	29.5	30.5	31.5	32.3	33.0	33.7	34.3	34.8	35.3	35.8	36.3	36.7	37.1	37.5	37.8	38.1	38.5	38.8
40.0	25.3	27.1	28.6	29.8	30.9	31.8	32.7	33.4	34.1	34.7	35.2	35.8	36.3	36.7	37.1	37.5	37.9	38.3	38.6	39.0	39.3
40.5	25.6	27.4	28.9	30.2	31.3	32.2	33.1	33.8	34.5	35.1	35.7	36.2	36.7	37.2	37.6	38.0	38.4	38.7	39.1	39.4	39.8
41.0	25.9	27.8	29.3	30.5	31.6	32.6	33.4	34.2	34.9	35.5	36.1	36.6	37.1	37.6	38.0	38.5	38.8	39.2	39.6	39.9	40.2
41.5	26.2	28.1	29.6	30.9	32.0	33.0	33.8	34.6	35.3	35.9	36.5	37.1	37.6	38.0	38.5	38.9	39.3	39.7	40.1	40.4	40.7
42.0	26.5	28.4	29.9	31.2	32.4	33.3	34.2	35.0	35.7	36.3	36.9	37.5	38.0	38.5	38.9	39.4	39.8	40.2	40.5	40.9	41.2
42.5	26.8	28.7	30.3	31.6	32.7	33.7	34.6	35.4	36.1	36.8	37.4	37.9	38.4	38.9	39.4	39.8	40.2	40.6	41.0	41.4	41.7
43.0	27.0	29.0	30.6	31.9	33.1	34.1	35.0	35.8	36.5	37.2	37.8	38.4	38.9	39.4	39.9	40.3	40.7	41.1	41.5	41.8	42.2
43.5	27.3	29.3	30.9	32.3	33.4	34.5	35.4	36.2	36.9	37.6	38.2	38.8	39.3	39.8	40.3	40.7	41.2	41.6	42.0	42.3	42.7
44.0	27.6	29.6	31.2	32.6	33.8	34.8	35.8	36.6	37.3	38.0	38.6	39.2	39.8	40.3	40.8	41.2	41.6	42.0	42.4	42.8	43.2
44.5	27.9	29.9	31.6	33.0	34.2	35.2	36.1	37.0	37.7	38.4	39.1	39.6	40.2	40.7	41.2	41.7	42.1	42.5	42.9	43.3	43.7
45.0	28.2	30.2	31.9	33.3	34.5	35.6	36.5	37.4	38.1	38.8	39.5	40.1	40.6	41.2	41.7	42.1	42.6	43.0	43.4	43.8	44.1
45.5	28.5	30.5	32.2	33.6	34.9	35.9	36.9	37.8	38.5	39.2	39.9	40.5	41.1	41.6	42.1	42.6	43.0	43.5	43.9	44.3	44.6
46.0	28.7	30.8	32.5	34.0	35.2	36.3	37.3	38.1	38.9	39.7	40.3	40.9	41.5	42.1	42.6	43.0	43.5	43.9	44.3	44.7	45.1
46.5	29.0	31.1	32.9	34.3	35.6	36.7	37.7	38.5	39.3	40.1	40.7	41.4	41.9	42.5	43.0	43.5	44.0	44.4	44.8	45.2	45.6
47.0	29.3	31.4	33.2	34.7	35.9	37.1	38.0	38.9	39.7	40.5	41.2	41.8	42.4	42.9	43.5	44.0	44.4	44.9	45.3	45.7	46.1
47.5	29.6	31.7	33.5	35.0	36.3	37.4	38.4	39.3	40.1	40.9	41.6	42.2	42.8	43.4	43.9	44.4	44.9	45.3	45.8	46.2	46.6
48.0	29.9	32.0	33.8	35.4	36.7	37.8	38.8	39.7	40.5	41.3	42.0	42.6	43.3	43.8	44.4	44.9	45.3	45.8	46.2	46.7	47.1
48.5	30.1	32.3	34.2	35.7	37.0	38.2	39.2	40.1	40.9	41.7	42.4	43.1	43.7	44.3	44.8	45.3	45.8	46.3	46.7	47.1	47.5
49.0	30.4	32.7	34.5	36.0	37.4	38.5	39.6	40.5	41.3	42.1	42.8	43.5	44.1	44.7	45.3	45.8	46.3	46.7	47.2	47.6	48.0
49.5	30.7	33.0	34.8	36.4	37.7	38.9	39.9	40.9	41.7	42.5	43.3	43.9	44.6	45.1	45.7	46.2	46.7	47.2	47.7	48.1	48.5
50.0	31.0	33.2	35.1	36.7	38.1	39.3	40.3	41.3	42.1	42.9	43.7	44.4	45.0	45.6	46.2	46.7	47.2	47.7	48.1	48.6	49.0