

## Dataset S11. Dark respiration rates in seedlings and saplings of vascular plants

### Notes to Table S11:

Dark respiration rates of whole vascular plants (seedlings and tree saplings) are taken from the work of Reich, P. B., Tjoelker, M. G., Machado, J.-L. & Oleksyn, J. Universal scaling of respiratory metabolism, size and nitrogen in plants. *Nature* 439, 457–461 (2006).

"Organism" — designation of the group to which the studied individual belongs as described in Reich et al. (2006);

"LogDMg" — decimal logarithm of whole plant dry mass DM, g;

"LogNMg" — decimal logarithm of whole plant nitrogen mass NMg, g;

"LogQd" — decimal logarithm of whole plant dark respiration Qd, nmol CO<sub>2</sub> s<sup>-1</sup>, at 24 °C;

"LogqWkg" — decimal logarithm of whole plant dark respiration in W (kg wet mass)<sup>-1</sup>, converted from Qd/DMg using respiratory quotient of unity (1 mol CO<sub>2</sub> released = 1 mol O<sub>2</sub> consumed), energy conversion 1 ml O<sub>2</sub> = 20 J and DM/WM (dry mass to wet mass ratio) = 0.3 (SI Methods, Table S12a);

"Logq25Wkg" — decimal logarithm of dark respiration rate converted to 25 °C using Q10 = 2,  $q_{25Wkg} = q_{Wkg} \times Q_{10}^{(25 - 24)/10}$ .

See Reich et al. (2006) for details of this data base.

Table S11.

Organism	Lab/field	Seedling/ Sapling	LogDMg	LogqWkg	Logq25Wkg	LogQd	LogNMg
1. 9speciesGH	lab	Seedling	-2.11492162	0.654	0.685	-0.59127355	-3.41943994
2. 9speciesGH	lab	Seedling	-2.03151705	0.506	0.537	-0.65557661	-3.47041567
3. 9speciesGH	lab	Seedling	-1.83713701	0.665	0.696	-0.30223692	-3.464225
4. 9speciesGH	lab	Seedling	-1.79048499	0.392	0.423	-0.52858176	-3.14212497
5. 9speciesGH	lab	Seedling	-1.70333481	0.356	0.387	-0.47737077	-3.22476831
6. 9speciesGH	lab	Seedling	-1.68193667	0.061	0.092	-0.75095274	-3.25380187
7. 9speciesGH	lab	Seedling	-1.67468963	0.547	0.578	-0.25789094	-3.02632962
8. 9speciesGH	lab	Seedling	-1.65560773	0.548	0.579	-0.23774719	-3.00143118
9. 9speciesGH	lab	Seedling	-1.64397414	0.535	0.566	-0.23876391	-2.9897976
10. 9speciesGH	lab	Seedling	-1.64397414	0.552	0.583	-0.22181822	-2.94849247
11. 9speciesGH	lab	Seedling	-1.61439373	0.086	0.117	-0.6584135	-3.2044606
12. 9speciesGH	lab	Seedling	-1.60730305	0.640	0.671	-0.09771324	-2.98096268
13. 9speciesGH	lab	Seedling	-1.58252831	0.167	0.198	-0.54535481	-3.14477774
14. 9speciesGH	lab	Seedling	-1.54287537	0.735	0.766	0.06210409	-2.8473937
15. 9speciesGH	lab	Seedling	-1.4828041	0.236	0.267	-0.37728039	-3.07287098
16. 9speciesGH	lab	Seedling	-1.47886192	0.480	0.511	-0.12842409	-3.03638215
17. 9speciesGH	lab	Seedling	-1.47755577	0.219	0.250	-0.38869971	-3.02576933
18. 9speciesGH	lab	Seedling	-1.4710833	0.517	0.548	-0.08428971	-2.82272329
19. 9speciesGH	lab	Seedling	-1.46852108	0.510	0.541	-0.08895892	-3.079355
20. 9speciesGH	lab	Seedling	-1.44309473	0.172	0.203	-0.40121433	-3.01495994
21. 9speciesGH	lab	Seedling	-1.4424928	0.527	0.558	-0.04587786	-2.99070636
22. 9speciesGH	lab	Seedling	-1.38668684	0.347	0.378	-0.16993324	-2.81381524
23. 9speciesGH	lab	Seedling	-1.37830454	0.731	0.762	0.22306291	-2.724128
24. 9speciesGH	lab	Seedling	-1.3580304	0.490	0.521	0.00235317	-2.91555063
25. 9speciesGH	lab	Seedling	-1.33068312	0.179	0.210	-0.28122492	-2.90254833
26. 9speciesGH	lab	Seedling	-1.326058	0.427	0.458	-0.02890524	-2.88357823
27. 9speciesGH	lab	Seedling	-1.31740371	0.651	0.682	0.20342265	-2.69106334
28. 9speciesGH	lab	Seedling	-1.29670862	0.210	0.241	-0.21635533	-2.85895806

29.	9speciesGH	lab	Seedling	-1.27245874	-0.088	-0.057	-0.4905511	
30.	9speciesGH	lab	Seedling	-1.26841123	0.417	0.448	0.01850373	-2.8166248
31.	9speciesGH	lab	Seedling	-1.24795155	0.668	0.699	0.2897444	
32.	9speciesGH	lab	Seedling	-1.24641694	0.359	0.390	-0.01720775	-2.67354534
33.	9speciesGH	lab	Seedling	-1.23882419	0.365	0.396	-0.00361166	
34.	9speciesGH	lab	Seedling	-1.23844801	0.507	0.538	0.13898247	-2.81193675
35.	9speciesGH	lab	Seedling	-1.23582387	0.570	0.601	0.20381927	-2.78403743
36.	9speciesGH	lab	Seedling	-1.23545028	0.454	0.485	0.08901859	-2.79769972
37.	9speciesGH	lab	Seedling	-1.22914799	0.202	0.233	-0.15677624	-2.85075009
38.	9speciesGH	lab	Seedling	-1.22767829	0.415	0.446	0.05756739	-2.78992773
39.	9speciesGH	lab	Seedling	-1.22548303	0.187	0.218	-0.16823196	-2.65261143
40.	9speciesGH	lab	Seedling	-1.22184875	0.516	0.547	0.16405003	-2.59550838
41.	9speciesGH	lab	Seedling	-1.21681131	0.268	0.299	-0.07901018	-2.64393971
42.	9speciesGH	lab	Seedling	-1.21112488	0.518	0.549	0.17679226	-2.58478452
43.	9speciesGH	lab	Seedling	-1.17619985	0.361	0.392	0.05460618	-2.74968858
44.	9speciesGH	lab	Seedling	-1.17230771	0.184	0.215	-0.11846308	-2.81057988
45.	9speciesGH	lab	Seedling	-1.1697322	0.179	0.210	-0.1208239	-2.80800436
46.	9speciesGH	lab	Seedling	-1.12784373	0.500	0.531	0.24179694	
47.	9speciesGH	lab	Seedling	-1.11918641	0.394	0.425	0.1445964	-2.58389229
48.	9speciesGH	lab	Seedling	-1.11662251	0.324	0.355	0.07696062	-2.75489467
49.	9speciesGH	lab	Seedling	-1.11153968	0.263	0.294	0.02150317	-2.74981185
50.	9speciesGH	lab	Seedling	-1.09151498	0.696	0.727	0.47472278	-2.45402525
51.	9speciesGH	lab	Seedling	-1.08354605	0.512	0.543	0.29806678	-2.54825193
52.	9speciesGH	lab	Seedling	-1.079355	0.165	0.196	-0.04388578	-2.54406088
53.	9speciesGH	lab	Seedling	-1.0639892	0.602	0.633	0.40819904	-2.49696284
54.	9speciesGH	lab	Seedling	-1.05256628	0.706	0.737	0.52330929	-2.52881981
55.	9speciesGH	lab	Seedling	-1.0501223	0.346	0.377	0.16636893	
56.	9speciesGH	lab	Seedling	-1.03857891	0.388	0.419	0.21904618	-2.50328479
57.	9speciesGH	lab	Seedling	-1.03778856	0.201	0.232	0.03277438	-2.57092094
58.	9speciesGH	lab	Seedling	-1.03464149	0.158	0.189	-0.00686165	-2.56777387
59.	9speciesGH	lab	Seedling	-1.02159121	0.389	0.420	0.23718865	-2.67523823
60.	9speciesGH	lab	Seedling	-1.00833099	0.388	0.419	0.24942049	-2.58181973
61.	9speciesGH	lab	Seedling	-1.0015227	0.455	0.486	0.32387073	-2.65516972
62.	9speciesGH	lab	Seedling	-0.99934905	0.399	0.430	0.26969792	-2.56001635
63.	9speciesGH	lab	Seedling	-0.98927613	0.247	0.278	0.12750387	-2.52240851
64.	9speciesGH	lab	Seedling	-0.986952	0.430	0.461	0.31289544	-2.56044074
65.	9speciesGH	lab	Seedling	-0.97819072	0.549	0.580	0.44064929	-2.52640429
66.	9speciesGH	lab	Seedling	-0.97819072	0.597	0.628	0.48864194	
67.	9speciesGH	lab	Seedling	-0.97305837	0.512	0.543	0.40943524	
68.	9speciesGH	lab	Seedling	-0.96517108	0.607	0.638	0.51200214	-2.41372109
69.	9speciesGH	lab	Seedling	-0.96377046	0.452	0.483	0.35794523	
70.	9speciesGH	lab	Seedling	-0.95272513	0.726	0.757	0.64337597	-2.48290312
71.	9speciesGH	lab	Seedling	-0.93930216	0.542	0.573	0.47240992	-2.48293613
72.	9speciesGH	lab	Seedling	-0.93685436	0.436	0.467	0.36895867	-2.59050139
73.	9speciesGH	lab	Seedling	-0.92996213	0.573	0.604	0.51337431	-2.32465709
74.	9speciesGH	lab	Seedling	-0.92811799	0.378	0.409	0.31972063	
75.	9speciesGH	lab	Seedling	-0.91703521	0.345	0.376	0.29821519	
76.	9speciesGH	lab	Seedling	-0.90135627	0.110	0.141	0.0784276	-2.53028841
77.	9speciesGH	lab	Seedling	-0.89414933	0.204	0.235	0.1794889	
78.	9speciesGH	lab	Seedling	-0.89211197	0.689	0.720	0.66671147	
79.	9speciesGH	lab	Seedling	-0.88322627	0.438	0.469	0.4249101	-2.41340426
80.	9speciesGH	lab	Seedling	-0.87778412	0.189	0.220	0.1813797	-2.5639169
81.	9speciesGH	lab	Seedling	-0.87305728	0.600	0.631	0.5974059	-2.30603092
82.	9speciesGH	lab	Seedling	-0.8711163	0.334	0.365	0.33283072	-2.55724908
83.	9speciesGH	lab	Seedling	-0.85949196	0.296	0.327	0.30698231	-2.54562474
84.	9speciesGH	lab	Seedling	-0.85356186	0.647	0.678	0.663663	
85.	9speciesGH	lab	Seedling	-0.84924356	0.198	0.229	0.21920565	-2.38237594
86.	9speciesGH	lab	Seedling	-0.84103474	0.312	0.343	0.34049637	-2.37121272

87.	9speciesGH	lab	Seedling	-0.80548566	0.765	0.796	0.82959025	
88.	9speciesGH	lab	Seedling	-0.80465394	0.550	0.581	0.61581204	-2.35286751
89.	9speciesGH	lab	Seedling	-0.78648224	0.482	0.513	0.56519937	-2.20784303
90.	9speciesGH	lab	Seedling	-0.77910775	0.276	0.307	0.36664078	-2.46524053
91.	9speciesGH	lab	Seedling	-0.77481999	0.645	0.676	0.74057044	
92.	9speciesGH	lab	Seedling	-0.77237035	0.398	0.429	0.49573596	-2.30254833
93.	9speciesGH	lab	Seedling	-0.76095091	0.694	0.725	0.80324373	-2.23720444
94.	9speciesGH	lab	Seedling	-0.75808015	0.649	0.680	0.76062054	-2.20663015
95.	9speciesGH	lab	Seedling	-0.73992861	0.452	0.483	0.58246759	-2.28356258
96.	9speciesGH	lab	Seedling	-0.72170379	0.326	0.357	0.47465283	-2.3994845
97.	9speciesGH	lab	Seedling	-0.72010502	0.349	0.380	0.49884813	-2.4552872
98.	9speciesGH	lab	Seedling	-0.70929776	0.465	0.496	0.62582601	-2.33638575
99.	9speciesGH	lab	Seedling	-0.70071067	0.569	0.600	0.73821748	
100.	9speciesGH	lab	Seedling	-0.68486968	0.697	0.728	0.88177544	-2.04737995
101.	9speciesGH	lab	Seedling	-0.68455448	0.627	0.658	0.81276009	-2.31164248
102.	9speciesGH	lab	Seedling	-0.68402965	0.468	0.499	0.65404968	-2.22766362
103.	9speciesGH	lab	Seedling	-0.68235446	0.541	0.572	0.72894653	
104.	9speciesGH	lab	Seedling	-0.64781748	0.306	0.337	0.52769094	-2.27674962
105.	9speciesGH	lab	Seedling	-0.64653259	0.315	0.346	0.53846725	-2.38171476
106.	9speciesGH	lab	Seedling	-0.62333181	0.259	0.290	0.50568184	-2.30111252
107.	9speciesGH	lab	Seedling	-0.60730305	0.400	0.431	0.66293084	-2.34248522
108.	9speciesGH	lab	Seedling	-0.59808275	0.242	0.273	0.51363214	-2.27586345
109.	9speciesGH	lab	Seedling	-0.5866164	0.599	0.630	0.8824728	
110.	9speciesGH	lab	Seedling	-0.58269442	0.614	0.645	0.9016204	-2.05894795
111.	9speciesGH	lab	Seedling	-0.58004425	0.316	0.347	0.60574966	-2.31522643
112.	9speciesGH	lab	Seedling	-0.51074483	0.522	0.553	0.88167063	-2.12335501
113.	9speciesGH	lab	Seedling	-0.50675113	0.600	0.631	0.96361639	-2.13383913
114.	9speciesGH	lab	Seedling	-0.49825627	0.530	0.561	0.90198872	-2.11086644
115.	9speciesGH	lab	Seedling	-0.41566878	0.557	0.588	1.01114576	-2.02827895
116.	9speciesGH	lab	Seedling	-0.40285351	0.690	0.721	1.15670058	-1.93896052
117.	9speciesGH	lab	Seedling	-0.39577395	0.508	0.539	0.98175349	-2.03974809
118.	9speciesGH	lab	Seedling	-0.37960365	0.618	0.649	1.10825289	-2.00669165
119.	9speciesGH	lab	Seedling	-0.37263414	0.586	0.617	1.08294951	-1.79399493
120.	9speciesGH	lab	Seedling	-0.36151074	0.568	0.599	1.07671791	-1.97412092
121.	9speciesGH	lab	Seedling	-0.35418488	0.698	0.729	1.21425723	
122.	9speciesGH	lab	Seedling	-0.33254705	0.393	0.424	0.93078237	-1.727242
123.	9speciesGH	lab	Seedling	-0.29379446	0.599	0.630	1.17515806	
124.	9speciesGH	lab	Seedling	-0.27511	0.785	0.816	1.37994387	-1.86856982
125.	9speciesGH	lab	Seedling	-0.24949161	0.607	0.638	1.2275249	-1.64418656
126.	9speciesGH	lab	Seedling	-0.21631076	0.617	0.648	1.27053232	-1.66486077
127.	9speciesGH	lab	Seedling	-0.21253953	0.305	0.336	0.96202542	-1.85651367
128.	9speciesGH	lab	Seedling	-0.20276709	0.663	0.694	1.33044983	-1.79622691
129.	9speciesGH	lab	Seedling	-0.1877553	0.487	0.518	1.16913513	-1.83172945
130.	9speciesGH	lab	Seedling	-0.18508682	0.601	0.632	1.28561339	-1.60644761
131.	9speciesGH	lab	Seedling	-0.1150065	0.641	0.672	1.3955971	-1.70846632
132.	9speciesGH	lab	Seedling	-0.07696333	0.583	0.614	1.37598768	-1.61307034
133.	9speciesGH	lab	Seedling	0.0186381	0.651	0.682	1.53974614	-1.57482172
134.	9speciesGH	lab	Seedling	0.01996742	0.666	0.697	1.55607927	-1.55842865
135.	9speciesGH	lab	Seedling	0.04095817	0.548	0.579	1.4591865	-1.49514884
136.	9speciesGH	lab	Seedling	0.11085896	0.614	0.645	1.59496034	-1.46753712
137.	9speciesGH	lab	Seedling	0.1248953	0.469	0.500	1.46357681	-1.41121171
138.	9speciesGH	lab	Seedling	0.13700578	0.565	0.596	1.57202423	-1.4413903
139.	9speciesGH	lab	Seedling	0.16286299	0.304	0.335	1.33668443	-1.54488094
140.	9speciesGH	lab	Seedling	0.21789173	0.509	0.540	1.59726783	-1.36050435
141.	9speciesGH	lab	Seedling	0.26670197	0.470	0.501	1.60705217	
142.	9speciesGH	lab	Seedling	0.34271869	0.390	0.421	1.6031299	
143.	9speciesGH	lab	Seedling	0.37759763	0.525	0.556	1.77229729	
144.	9speciesGH	lab	Seedling	0.38118731	0.519	0.550	1.77041612	

145.	9speciesGH	lab	Seedling	0.42084654	0.673	0.704	1.9634765	
146.	9speciesGH	lab	Seedling	0.47026345	0.454	0.485	1.7940897	-1.23748048
147.	9speciesGH	lab	Seedling	0.53576235	0.430	0.461	1.8362488	
148.	9speciesGH	lab	Seedling	0.58629468	0.554	0.585	2.01037272	
149.	9speciesGH	lab	Seedling	0.6404218	0.447	0.478	1.95709161	
150.	9speciesGH	lab	Seedling	0.64819407	0.353	0.384	1.87108773	
151.	9speciesGH	lab	Seedling	0.65705585	0.394	0.425	1.92099253	
152.	9speciesGH	lab	Seedling	0.74264659	0.449	0.480	2.06209307	-0.96509734
153.	9speciesGH	lab	Seedling	0.76826802	0.357	0.388	1.99514949	-1.01424804
154.	9speciesGH	lab	Seedling	0.78653848	0.455	0.486	2.11197982	-0.93016029
155.	9speciesGH	lab	Seedling	0.79427887	0.423	0.454	2.08747872	-0.92241991
156.	9speciesGH	lab	Seedling	0.80848106	0.315	0.346	1.99336603	-0.974035
157.	9speciesGH	lab	Seedling	0.83289194	0.383	0.414	2.08556949	-0.88380683
158.	9speciesGH	lab	Seedling	0.83537345	0.281	0.312	1.98607161	-0.9471426
159.	9speciesGH	lab	Seedling	0.86607457	0.412	0.443	2.14783756	-0.8506242
160.	9speciesGH	lab	Seedling	0.87155542	0.379	0.410	2.12066637	-0.83618851
161.	9speciesGH	lab	Seedling	0.92298482	0.297	0.328	2.08958834	-0.85953124
162.	9speciesGH	lab	Seedling	0.96156346	0.280	0.311	2.11130565	-0.83161066
163.	9speciesGH	lab	Seedling	0.98154681	0.273	0.304	2.12437085	-0.81162732
164.	9speciesGH	lab	Seedling	1.03350417	0.378	0.409	2.2810345	-0.75966995
165.	9speciesGH	lab	Seedling	1.11571034	0.385	0.416	2.37111728	-0.67746379
166.	BorealGCB	lab	Seedling	-1.84403676	0.787	0.818	-0.1873045	
167.	BorealGCB	lab	Seedling	-1.78059915	0.761	0.792	-0.14950921	
168.	BorealGCB	lab	Seedling	-1.76848145	0.330	0.361	-0.56871751	
169.	BorealGCB	lab	Seedling	-1.72515831	1.007	1.038	0.1515138	
170.	BorealGCB	lab	Seedling	-1.67177268	0.586	0.617	-0.21562247	
171.	BorealGCB	lab	Seedling	-1.66672731	0.393	0.424	-0.40390884	
172.	BorealGCB	lab	Seedling	-1.66409863	0.342	0.373	-0.45222843	
173.	BorealGCB	lab	Seedling	-1.62836038	0.521	0.552	-0.2374705	
174.	BorealGCB	lab	Seedling	-1.60221293	0.759	0.790	0.02657622	
175.	BorealGCB	lab	Seedling	-1.6016569	0.950	0.981	0.21846933	
176.	BorealGCB	lab	Seedling	-1.58861068	0.642	0.673	-0.0764476	
177.	BorealGCB	lab	Seedling	-1.58719161	0.295	0.326	-0.42259547	
178.	BorealGCB	lab	Seedling	-1.57383607	0.711	0.742	0.007529	
179.	BorealGCB	lab	Seedling	-1.55887627	0.356	0.387	-0.33241796	
180.	BorealGCB	lab	Seedling	-1.54518674	0.373	0.404	-0.30245844	
181.	BorealGCB	lab	Seedling	-1.5439263	0.317	0.348	-0.35695663	
182.	BorealGCB	lab	Seedling	-1.53420337	0.642	0.673	-0.02186812	
183.	BorealGCB	lab	Seedling	-1.45198735	0.640	0.671	0.05769425	
184.	BorealGCB	lab	Seedling	-1.44018042	0.568	0.599	-0.00255182	
185.	BorealGCB	lab	Seedling	-1.43085616	0.650	0.681	0.08936966	
186.	BorealGCB	lab	Seedling	-1.4010724	0.700	0.731	0.16925447	
187.	BorealGCB	lab	Seedling	-1.3985619	0.642	0.673	0.11372711	
188.	BorealGCB	lab	Seedling	-1.3928738	0.570	0.601	0.04762384	
189.	BorealGCB	lab	Seedling	-1.3772967	0.727	0.758	0.21929648	
190.	BorealGCB	lab	Seedling	-1.36303744	0.490	0.521	-0.00255412	
191.	BorealGCB	lab	Seedling	-1.35756484	0.331	0.362	-0.15633302	
192.	BorealGCB	lab	Seedling	-1.34479543	0.402	0.433	-0.07295616	
193.	BorealGCB	lab	Seedling	-1.33776748	0.341	0.372	-0.12636596	
194.	BorealGCB	lab	Seedling	-1.33440507	0.548	0.579	0.08376197	
195.	BorealGCB	lab	Seedling	-1.304694	0.332	0.363	-0.10288943	
196.	BorealGCB	lab	Seedling	-1.29663085	0.316	0.347	-0.11057881	
197.	BorealGCB	lab	Seedling	-1.28504177	0.435	0.466	0.01976813	
198.	BorealGCB	lab	Seedling	-1.28362062	0.660	0.691	0.24649645	
199.	BorealGCB	lab	Seedling	-1.24202113	0.704	0.735	0.33241455	
200.	BorealGCB	lab	Seedling	-1.23913232	0.894	0.925	0.52473695	
201.	BorealGCB	lab	Seedling	-1.23337063	0.511	0.542	0.14788767	
202.	BorealGCB	lab	Seedling	-1.22151099	0.591	0.622	0.23965009	

203.	BorealGCB	lab	Seedling	-1.21886859	0.356	0.387	0.00752078
204.	BorealGCB	lab	Seedling	-1.2153766	0.365	0.396	0.0197505
205.	BorealGCB	lab	Seedling	-1.21483124	0.622	0.653	0.27728974
206.	BorealGCB	lab	Seedling	-1.20643051	0.495	0.526	0.1581039
207.	BorealGCB	lab	Seedling	-1.19675558	0.417	0.448	0.09020601
208.	BorealGCB	lab	Seedling	-1.19240145	0.631	0.662	0.30869797
209.	BorealGCB	lab	Seedling	-1.18267596	0.604	0.635	0.29153176
210.	BorealGCB	lab	Seedling	-1.1486706	0.551	0.582	0.27281959
211.	BorealGCB	lab	Seedling	-1.1451127	1.140	1.171	0.86473202
212.	BorealGCB	lab	Seedling	-1.11614819	0.478	0.509	0.23152874
213.	BorealGCB	lab	Seedling	-1.11132107	0.541	0.572	0.29968373
214.	BorealGCB	lab	Seedling	-1.09748161	0.459	0.490	0.23153083
215.	BorealGCB	lab	Seedling	-1.07562789	0.225	0.256	0.01976287
216.	BorealGCB	lab	Seedling	-1.06651571	0.276	0.307	0.07975732
217.	BorealGCB	lab	Seedling	-1.06314129	1.044	1.075	0.85048849
218.	BorealGCB	lab	Seedling	-1.06013766	0.608	0.639	0.41770058
219.	BorealGCB	lab	Seedling	-1.05559018	0.608	0.639	0.42258083
220.	BorealGCB	lab	Seedling	-1.05406257	0.527	0.558	0.34340627
221.	BorealGCB	lab	Seedling	-1.03779123	0.657	0.688	0.48951588
222.	BorealGCB	lab	Seedling	-1.02680859	0.662	0.693	0.504779
223.	BorealGCB	lab	Seedling	-1.01437529	0.602	0.633	0.45735259
224.	BorealGCB	lab	Seedling	-1.01287185	0.479	0.510	0.33658535
225.	BorealGCB	lab	Seedling	-1.00991495	0.445	0.476	0.30532163
226.	BorealGCB	lab	Seedling	-0.96258474	0.597	0.628	0.50477364
227.	BorealGCB	lab	Seedling	-0.9561018	0.415	0.446	0.32876669
228.	BorealGCB	lab	Seedling	-0.94918741	0.416	0.447	0.33657998
229.	BorealGCB	lab	Seedling	-0.94497292	0.796	0.827	0.72102624
230.	BorealGCB	lab	Seedling	-0.93468932	0.572	0.603	0.50773417
231.	BorealGCB	lab	Seedling	-0.93318242	0.898	0.929	0.83476141
232.	BorealGCB	lab	Seedling	-0.91832236	0.867	0.898	0.81913263
233.	BorealGCB	lab	Seedling	-0.8977889	0.519	0.550	0.49080056
234.	BorealGCB	lab	Seedling	-0.89276692	0.608	0.639	0.58549108
235.	BorealGCB	lab	Seedling	-0.87104183	0.353	0.384	0.351833
236.	BorealGCB	lab	Seedling	-0.86542793	0.416	0.447	0.42091628
237.	BorealGCB	lab	Seedling	-0.86154295	0.415	0.446	0.42341477
238.	BorealGCB	lab	Seedling	-0.8558831	0.485	0.516	0.49913315
239.	BorealGCB	lab	Seedling	-0.85563762	0.322	0.353	0.33658769
240.	BorealGCB	lab	Seedling	-0.85409369	0.570	0.601	0.58549608
241.	BorealGCB	lab	Seedling	-0.85119334	0.220	0.251	0.23882543
242.	BorealGCB	lab	Seedling	-0.77836583	0.219	0.250	0.31032546
243.	BorealGCB	lab	Seedling	-0.77731375	0.842	0.873	0.93445919
244.	BorealGCB	lab	Seedling	-0.75782616	0.357	0.388	0.46920928
245.	BorealGCB	lab	Seedling	-0.75560881	0.401	0.432	0.51576116
246.	BorealGCB	lab	Seedling	-0.74470611	0.688	0.719	0.81323205
247.	BorealGCB	lab	Seedling	-0.72853243	0.508	0.539	0.6490732
248.	BorealGCB	lab	Seedling	-0.72044603	0.558	0.589	0.70725857
249.	BorealGCB	lab	Seedling	-0.71149659	0.865	0.896	1.02325486
250.	BorealGCB	lab	Seedling	-0.69303245	0.566	0.597	0.74312403
251.	BorealGCB	lab	Seedling	-0.6876188	0.222	0.253	0.40434523
252.	BorealGCB	lab	Seedling	-0.68004783	0.266	0.297	0.45588991
253.	BorealGCB	lab	Seedling	-0.67295083	0.345	0.376	0.54173234
254.	BorealGCB	lab	Seedling	-0.66490317	0.623	0.654	0.82770751
255.	BorealGCB	lab	Seedling	-0.65598682	0.783	0.814	0.9966189
256.	BorealGCB	lab	Seedling	-0.62388197	0.737	0.768	0.98315951
257.	BorealGCB	lab	Seedling	-0.619392	0.779	0.810	1.03004013
258.	BorealGCB	lab	Seedling	-0.60506099	0.698	0.729	0.96340563
259.	BorealGCB	lab	Seedling	-0.59716811	0.508	0.539	0.7804654
260.	BorealGCB	lab	Seedling	-0.58342939	1.035	1.066	1.32197256

261.	BorealGCB	lab	Seedling	-0.56451332	0.990	1.021	1.2954292
262.	BorealGCB	lab	Seedling	-0.55450431	0.564	0.595	0.87935624
263.	BorealGCB	lab	Seedling	-0.53712313	0.595	0.626	0.92758629
264.	BorealGCB	lab	Seedling	-0.52148327	0.840	0.871	1.18806668
265.	BorealGCB	lab	Seedling	-0.51493472	0.591	0.622	0.94630375
266.	BorealGCB	lab	Seedling	-0.51180304	0.528	0.559	0.88654837
267.	BorealGCB	lab	Seedling	-0.50631129	0.348	0.379	0.71191717
268.	BorealGCB	lab	Seedling	-0.49231292	0.492	0.523	0.87005286
269.	BorealGCB	lab	Seedling	-0.48575539	0.455	0.486	0.8397261
270.	BorealGCB	lab	Seedling	-0.48178542	0.525	0.556	0.91349033
271.	BorealGCB	lab	Seedling	-0.47866463	0.410	0.441	0.80138664
272.	BorealGCB	lab	Seedling	-0.43980771	0.499	0.530	0.92905433
273.	BorealGCB	lab	Seedling	-0.43630005	0.714	0.745	1.14758391
274.	BorealGCB	lab	Seedling	-0.41226878	0.650	0.681	1.10736827
275.	BorealGCB	lab	Seedling	-0.40528514	0.781	0.812	1.24577655
276.	BorealGCB	lab	Seedling	-0.3781909	0.425	0.456	0.91678012
277.	BorealGCB	lab	Seedling	-0.37246081	0.497	0.528	0.99466071
278.	BorealGCB	lab	Seedling	-0.36241444	0.315	0.346	0.82232498
279.	BorealGCB	lab	Seedling	-0.35988862	0.732	0.763	1.24219381
280.	BorealGCB	lab	Seedling	-0.34929569	0.336	0.367	0.85631722
281.	BorealGCB	lab	Seedling	-0.33034277	0.871	0.902	1.41032408
282.	BorealGCB	lab	Seedling	-0.3290384	0.324	0.355	0.8651546
283.	BorealGCB	lab	Seedling	-0.328787	0.516	0.547	1.05701208
284.	BorealGCB	lab	Seedling	-0.32266413	0.421	0.452	0.9679327
285.	BorealGCB	lab	Seedling	-0.31850943	0.574	0.605	1.12520498
286.	BorealGCB	lab	Seedling	-0.31289815	0.657	0.688	1.21446213
287.	BorealGCB	lab	Seedling	-0.30066118	0.538	0.569	1.10782139
288.	BorealGCB	lab	Seedling	-0.27096555	0.184	0.215	0.78285222
289.	BorealGCB	lab	Seedling	-0.26489466	0.602	0.633	1.20676908
290.	BorealGCB	lab	Seedling	-0.26354347	0.666	0.697	1.27234629
291.	BorealGCB	lab	Seedling	-0.26318304	0.454	0.485	1.06082192
292.	BorealGCB	lab	Seedling	-0.25062986	0.608	0.639	1.22728418
293.	BorealGCB	lab	Seedling	-0.2018346	0.522	0.553	1.1904114
294.	BorealGCB	lab	Seedling	-0.19017988	0.953	0.984	1.63252706
295.	BorealGCB	lab	Seedling	-0.16604827	0.814	0.845	1.51843467
296.	BorealGCB	lab	Seedling	-0.16427608	0.592	0.623	1.29808612
297.	BorealGCB	lab	Seedling	-0.14345577	0.608	0.639	1.33495174
298.	BorealGCB	lab	Seedling	-0.13061282	0.327	0.358	1.06668509
299.	BorealGCB	lab	Seedling	-0.1285124	0.438	0.469	1.17922759
300.	BorealGCB	lab	Seedling	-0.10944367	0.670	0.701	1.43006878
301.	BorealGCB	lab	Seedling	-0.07090378	0.629	0.660	1.42814163
302.	BorealGCB	lab	Seedling	-0.06968546	0.514	0.545	1.3138272
303.	BorealGCB	lab	Seedling	-0.05515017	0.350	0.381	1.16471123
304.	BorealGCB	lab	Seedling	-0.05488394	0.577	0.608	1.39169537
305.	BorealGCB	lab	Seedling	-0.04734293	0.638	0.669	1.46020932
306.	BorealGCB	lab	Seedling	-0.04504638	0.334	0.365	1.15934764
307.	BorealGCB	lab	Seedling	-0.0381635	0.671	0.702	1.50260061
308.	BorealGCB	lab	Seedling	-0.03274643	0.641	0.672	1.47817011
309.	BorealGCB	lab	Seedling	-0.0205024	0.482	0.513	1.33163955
310.	BorealGCB	lab	Seedling	-0.00445054	0.696	0.727	1.56125122
311.	BorealGCB	lab	Seedling	-0.00404341	0.613	0.644	1.47911719
312.	BorealGCB	lab	Seedling	0.02884697	0.884	0.915	1.78246755
313.	BorealGCB	lab	Seedling	0.03675267	0.484	0.515	1.39059703
314.	BorealGCB	lab	Seedling	0.06018995	0.457	0.488	1.38679306
315.	BorealGCB	lab	Seedling	0.06452976	0.438	0.469	1.3722207
316.	BorealGCB	lab	Seedling	0.08102686	0.386	0.417	1.3374924
317.	BorealGCB	lab	Seedling	0.08214706	0.850	0.881	1.80188497
318.	BorealGCB	lab	Seedling	0.08235887	0.346	0.377	1.29788408

319.	BorealGCB	lab	Seedling	0.08995837	0.551	0.582	1.51057816	
320.	BorealGCB	lab	Seedling	0.09221892	0.751	0.782	1.71325214	
321.	BorealGCB	lab	Seedling	0.09887785	0.337	0.368	1.30540584	
322.	BorealGCB	lab	Seedling	0.10082294	0.593	0.624	1.56346004	
323.	BorealGCB	lab	Seedling	0.16304246	0.803	0.834	1.83636978	
324.	BorealGCB	lab	Seedling	0.17958787	0.508	0.539	1.55785895	
325.	BorealGCB	lab	Seedling	0.1816836	0.769	0.800	1.82020097	
326.	BorealGCB	lab	Seedling	0.2217474	0.450	0.481	1.54130522	
327.	BorealGCB	lab	Seedling	0.27432198	0.467	0.498	1.61131588	
328.	BorealGCB	lab	Seedling	0.29643481	0.464	0.495	1.6302515	
329.	BorealGCB	lab	Seedling	0.30078273	0.303	0.334	1.47366771	
330.	BorealGCB	lab	Seedling	0.32065762	0.367	0.398	1.55755997	
331.	BorealGCB	lab	Seedling	0.32200405	0.838	0.869	2.03037243	
332.	BorealGCB	lab	Seedling	0.3515702	0.351	0.382	1.57231685	
333.	BorealGCB	lab	Seedling	0.37020161	0.536	0.567	1.77640871	
334.	BorealGCB	lab	Seedling	0.42234141	0.491	0.522	1.78381874	
335.	BorealGCB	lab	Seedling	0.46713879	0.923	0.954	2.25993546	
336.	BorealGCB	lab	Seedling	0.47966737	0.795	0.826	2.14475283	
337.	BorealGCB	lab	Seedling	0.49567698	0.859	0.890	2.22475665	
338.	BorealGCB	lab	Seedling	0.5097555	0.578	0.609	1.95760313	
339.	BorealGCB	lab	Seedling	0.5276229	0.832	0.863	2.22982455	
340.	BorealGCB	lab	Seedling	0.53750975	0.400	0.431	1.80779008	
341.	BorealGCB	lab	Seedling	0.69488935	0.556	0.587	2.12113257	
342.	BorealGCB	lab	Seedling	0.73018523	0.599	0.630	2.19960229	
343.	BorealGCB	lab	Seedling	0.73380397	0.780	0.811	2.38426182	
344.	BorealGCB	lab	Seedling	0.75029967	0.830	0.861	2.44997641	
345.	BorealGCB	lab	Seedling	0.77139114	0.713	0.744	2.35391756	
346.	BorealGCB	lab	Seedling	0.78585503	0.862	0.893	2.5181878	
347.	BorealGCB	lab	Seedling	0.86344459	0.474	0.505	2.20744421	
348.	BorealGCB	lab	Seedling	0.89940405	0.546	0.577	2.31546143	
349.	BorealGCB	lab	Seedling	1.01911747	0.612	0.643	2.50155002	
350.	BorealGCB	lab	Seedling	1.05223447	0.416	0.447	2.33872079	
351.	BorealGCB	lab	Seedling	1.10244032	0.709	0.740	2.68142282	
352.	BorealGCB	lab	Seedling	1.16005351	0.779	0.810	2.80929901	
353.	BorealGCB	lab	Seedling	1.29503672	0.823	0.854	2.98770244	
354.	BorealGCB	lab	Seedling	1.31261932	0.584	0.615	2.76620319	
355.	BorealGCB	lab	Seedling	1.32923544	0.584	0.615	2.78281284	
356.	GHherbs	lab	Seedling	-1.89733766	0.681	0.712	-0.34626093	-3.35613434
357.	GHherbs	lab	Seedling	-1.70626924	0.704	0.735	-0.1318104	-3.14986344
358.	GHherbs	lab	Seedling	-1.68472957	0.629	0.660	-0.18534056	-3.0475583
359.	GHherbs	lab	Seedling	-1.5426228	0.475	0.506	-0.19795829	-3.17726163
360.	GHherbs	lab	Seedling	-1.52287875	0.622	0.653	-0.03077177	-3.14247591
361.	GHherbs	lab	Seedling	-1.5039934	0.675	0.706	0.04146487	-2.95301233
362.	GHherbs	lab	Seedling	-1.45181539	0.649	0.680	0.06718787	-3.06436504
363.	GHherbs	lab	Seedling	-1.41453927	0.485	0.516	-0.05992071	-2.8942994
364.	GHherbs	lab	Seedling	-1.33724217	0.735	0.766	0.26809868	-2.85273815
365.	GHherbs	lab	Seedling	-1.31875876	0.685	0.716	0.23657456	-2.9697586
366.	GHherbs	lab	Seedling	-1.29242982	0.426	0.457	0.00315031	-2.91766142
367.	GHherbs	lab	Seedling	-1.29242982	0.616	0.647	0.19371954	-2.74218525
368.	GHherbs	lab	Seedling	-1.28399666	0.747	0.778	0.33273033	-2.70833825
369.	GHherbs	lab	Seedling	-1.26760624	0.644	0.675	0.24654443	-2.69930525
370.	GHherbs	lab	Seedling	-1.26227741	0.504	0.535	0.11196978	-2.89870882
371.	GHherbs	lab	Seedling	-1.24667233	0.440	0.471	0.06304156	-2.96489981
372.	GHherbs	lab	Seedling	-1.16536739	0.684	0.715	0.38883856	-2.48184823
373.	GHherbs	lab	Seedling	-1.15697497	0.667	0.698	0.38036327	-2.50482117
374.	GHherbs	lab	Seedling	-1.14670748	0.729	0.760	0.45212556	-2.58665247
375.	GHherbs	lab	Seedling	-1.1426675	0.780	0.811	0.50734651	-2.56106514
376.	GHherbs	lab	Seedling	-1.11350927	0.698	0.729	0.45434044	-2.43574677

377.	GHherbs	lab	Seedling	-1.10513034	0.613	0.644	0.37744317	-2.62450481
378.	GHherbs	lab	Seedling	-1.08795517	0.467	0.498	0.24901408	-2.77222349
379.	GHherbs	lab	Seedling	-1.06173052	0.540	0.571	0.34814342	-2.53996549
380.	GHherbs	lab	Seedling	-1.03937069	0.726	0.757	0.55646463	-2.54425132
381.	GHherbs	lab	Seedling	-1.02687215	0.598	0.629	0.44090669	-2.45143844
382.	GHherbs	lab	Seedling	-0.98505965	0.582	0.613	0.46722996	-2.35641636
383.	GHherbs	lab	Seedling	-0.94884748	0.532	0.563	0.45287308	-2.45308922
384.	GHherbs	lab	Seedling	-0.93181414	0.585	0.616	0.52278741	-2.48471243
385.	GHherbs	lab	Seedling	-0.91009489	0.565	0.596	0.52475963	-2.50433135
386.	GHherbs	lab	Seedling	-0.90774735	0.800	0.831	0.762153	-2.35467478
387.	GHherbs	lab	Seedling	-0.87397688	0.637	0.668	0.6332009	-2.41912066
388.	GHherbs	lab	Seedling	-0.85490723	0.314	0.345	0.32906707	-2.40994391
389.	GHherbs	lab	Seedling	-0.82102305	0.659	0.690	0.70776786	-2.30460251
390.	GHherbs	lab	Seedling	-0.81530857	0.555	0.586	0.60974916	-2.50355884
391.	GHherbs	lab	Seedling	-0.77469072	0.763	0.794	0.85873546	-2.2941168
392.	GHherbs	lab	Seedling	-0.7721133	0.456	0.487	0.55389096	-2.3377522
393.	GHherbs	lab	Seedling	-0.64717456	0.664	0.695	0.88633125	-2.07308786
394.	GHherbs	lab	Seedling	-0.64589156	0.677	0.708	0.90077527	-2.22806128
395.	GHherbs	lab	Seedling	-0.63953282	0.450	0.481	0.68037114	-2.29929126
396.	GHherbs	lab	Seedling	-0.63638802	0.687	0.718	0.92067096	-1.97328461
397.	GHherbs	lab	Seedling	-0.61261017	0.534	0.565	0.79171284	-2.486155
398.	GHherbs	lab	Seedling	-0.59176003	0.571	0.602	0.84905272	-2.35292147
399.	GHherbs	lab	Seedling	-0.55232526	0.498	0.529	0.81524463	-1.99118964
400.	GHherbs	lab	Seedling	-0.537602	0.416	0.447	0.74834152	-2.22436477
401.	GHherbs	lab	Seedling	-0.48017201	0.580	0.611	0.97026605	-1.85786698
402.	GHherbs	lab	Seedling	-0.42365865	0.595	0.626	1.040991	-1.97700649
403.	GHherbs	lab	Seedling	-0.2670704	0.342	0.373	0.94455601	-2.03518811
404.	GHherbs	lab	Seedling	-0.25310644	0.582	0.613	1.19929655	-1.67204128
405.	GHherbs	lab	Seedling	-0.24565166	0.577	0.608	1.20134919	-1.67629463
406.	GHherbs	lab	Seedling	-0.21159592	0.548	0.579	1.20632452	-1.73775661
407.	GHherbs	lab	Seedling	-0.14752001	0.926	0.957	1.64799402	-1.66879187
408.	GHherbs	lab	Seedling	-0.14650459	0.575	0.606	1.29846634	-1.64775361
409.	GHherbs	lab	Seedling	-0.1352912	0.436	0.467	1.17107435	-1.92337997
410.	GHherbs	lab	Seedling	-0.10734897	0.596	0.627	1.35912029	-1.53979109
411.	GHherbs	lab	Seedling	-0.05469558	0.593	0.624	1.40877765	-1.47208243
412.	GHherbs	lab	Seedling	-0.04575749	0.512	0.543	1.33650842	-1.51670342
413.	GHherbs	lab	Seedling	-0.04415196	0.640	0.671	1.46629003	-1.53520334
414.	GHherbs	lab	Seedling	-0.00906946	0.512	0.543	1.37330382	-1.42457741
415.	GHherbs	lab	Seedling	-0.0070049	0.335	0.366	1.19801538	-1.71337809
416.	GHherbs	lab	Seedling	0.0150802	0.632	0.663	1.51733768	-1.48515853
417.	GHherbs	lab	Seedling	0.16066857	0.420	0.451	1.45114694	-1.39502301
418.	GHherbs	lab	Seedling	0.16583762	0.590	0.621	1.62595724	-1.26054702
419.	nMinnfield	field	Tree	-0.13846559	0.351	0.382	1.08301055	-2.12839788
			sapling					
420.	nMinnfield	field	Tree	0.07664044	-0.479	-0.448	0.46779468	-2.4481598
			sapling					
421.	nMinnfield	field	Tree	0.09025805	0.230	0.261	1.18990311	-1.89523983
			sapling					
422.	nMinnfield	field	Tree	0.22993769	0.169	0.200	1.26908521	-1.80894601
			sapling					
423.	nMinnfield	field	Tree	0.27760921	-0.714	-0.683	0.43400413	-1.98235686
			sapling					
424.	nMinnfield	field	Tree	0.3354579	-0.632	-0.601	0.57368775	-1.99749493
			sapling					
425.	nMinnfield	field	Tree	0.3494718	0.081	0.112	1.300798	-1.80152711
			sapling					
426.	nMinnfield	field	Tree	0.44138088	-0.265	-0.234	1.04658562	-1.8520085
			sapling					
427.	nMinnfield	field	Tree	0.45453998	-0.177	-0.146	1.14776508	-1.74881821
			sapling					



428.	nMinnfield	field	Tree	0.46893781	-0.014	0.017	1.32460269	-1.6302481
			sapling					
429.	nMinnfield	field	Tree	0.48444221	-0.709	-0.678	0.64514178	-1.77128918
			sapling					
430.	nMinnfield	field	Tree	0.49803472	-0.643	-0.612	0.72468137	-1.51655649
			sapling					
431.	nMinnfield	field	Tree	0.50920252	-0.306	-0.275	1.07278712	-1.72510125
			sapling					
432.	nMinnfield	field	Tree	0.53832233	-0.072	-0.041	1.33603242	-1.71113845
			sapling					
433.	nMinnfield	field	Tree	0.55606116	-0.485	-0.454	0.94111776	-1.57088533
			sapling					
434.	nMinnfield	field	Tree	0.62695595	-0.509	-0.478	0.98821929	-1.33178737
			sapling					
435.	nMinnfield	field	Tree	0.65494623	-0.804	-0.773	0.72097286	-1.61314804
			sapling					
436.	nMinnfield	field	Tree	0.66398345	-0.557	-0.526	0.97668253	-1.43201172
			sapling					
437.	nMinnfield	field	Tree	0.66670514	-0.540	-0.509	0.99695878	-1.41413866
			sapling					
438.	nMinnfield	field	Tree	0.71054045	-0.611	-0.580	0.9695777	-1.45489857
			sapling					
439.	nMinnfield	field	Tree	0.72574833	0.092	0.123	1.68758593	-1.35641705
			sapling					
440.	nMinnfield	field	Tree	0.7451529	-0.478	-0.447	1.13677602	-1.37328751
			sapling					
441.	nMinnfield	field	Tree	0.78753132	-0.546	-0.515	1.11124796	-1.27229116
			sapling					
442.	nMinnfield	field	Tree	0.82432112	-0.698	-0.667	0.996032	-1.48340395
			sapling					
443.	nMinnfield	field	Tree	0.83142182	-0.526	-0.495	1.17571271	-1.46471031
			sapling					
444.	nMinnfield	field	Tree	0.84016885	0.116	0.147	1.82576217	-1.17504284
			sapling					
445.	nMinnfield	field	Tree	0.84348194	-0.698	-0.667	1.01502714	-1.2966725
			sapling					
446.	nMinnfield	field	Tree	0.86219103	-0.449	-0.418	1.28338239	-1.28566865
			sapling					
447.	nMinnfield	field	Tree	0.86940775	-0.729	-0.698	1.01004702	-1.23955429
			sapling					
448.	nMinnfield	field	Tree	0.87128097	-0.316	-0.285	1.42505617	-1.28825463
			sapling					
449.	nMinnfield	field	Tree	0.8986155	-0.301	-0.270	1.46788743	-1.4559605
			sapling					
450.	nMinnfield	field	Tree	0.89927319	-0.097	-0.066	1.67225762	-1.31695386
			sapling					
451.	nMinnfield	field	Tree	0.91645395	-0.546	-0.515	1.24052888	-1.35330109
			sapling					
452.	nMinnfield	field	Tree	0.94384063	-0.480	-0.449	1.33366366	-1.24753974
			sapling					
453.	nMinnfield	field	Tree	0.96857634	-0.586	-0.555	1.25233056	-1.208961
			sapling					
454.	nMinnfield	field	Tree	0.99153618	-0.679	-0.648	1.18225876	-1.21041879
			sapling					
455.	nMinnfield	field	Tree	1.01456254	-0.151	-0.120	1.73356328	-1.11970759
			sapling					
456.	nMinnfield	field	Tree	1.02234588	-0.077	-0.046	1.81561456	-1.06166194
			sapling					
457.	nMinnfield	field	Tree	1.02358166	-0.221	-0.190	1.67225589	-1.15135773
			sapling					
458.	nMinnfield	field	Tree	1.02362279	-0.324	-0.293	1.5701185	-1.26519137
			sapling					
459.	nMinnfield	field	Tree	1.03790436	-0.405	-0.374	1.50262181	-1.20677764

460.	nMinnfield	field	sapling Tree	1.09142073	-0.482	-0.451	1.47892316	-1.25856947
461.	nMinnfield	field	sapling Tree	1.10533984	-0.409	-0.378	1.56681568	-1.21648374
462.	nMinnfield	field	sapling Tree	1.12201917	-0.231	-0.200	1.76129579	-1.15036073
463.	nMinnfield	field	sapling Tree	1.13798673	-0.338	-0.307	1.67008173	-1.16363474
464.	nMinnfield	field	sapling Tree	1.15170686	-0.419	-0.388	1.60275779	
465.	nMinnfield	field	sapling Tree	1.16654851	-0.631	-0.600	1.40587803	-1.40008419
466.	nMinnfield	field	sapling Tree	1.21579613	-0.720	-0.689	1.36530463	-1.12474699
467.	nMinnfield	field	sapling Tree	1.21848299	-0.364	-0.333	1.72403876	-1.05251824
468.	nMinnfield	field	sapling Tree	1.23989982	-0.521	-0.490	1.58895585	-0.87883655
469.	nMinnfield	field	sapling Tree	1.24578402	-0.077	-0.046	2.03861582	-1.08675269
470.	nMinnfield	field	sapling Tree	1.26599637	-0.371	-0.340	1.76472393	-1.0644222
471.	nMinnfield	field	sapling Tree	1.30567375	-0.527	-0.496	1.64872379	-1.0111776
472.	nMinnfield	field	sapling Tree	1.32442651	-0.105	-0.074	2.08902784	-0.92145836
473.	nMinnfield	field	sapling Tree	1.32555671	-0.144	-0.113	2.05160138	-0.925128
474.	nMinnfield	field	sapling Tree	1.32565931	-0.710	-0.679	1.48574273	-0.86945898
475.	nMinnfield	field	sapling Tree	1.33328602	-0.365	-0.334	1.83782018	-1.02609711
476.	nMinnfield	field	sapling Tree	1.33391054	-0.287	-0.256	1.91739042	-0.99619708
477.	nMinnfield	field	sapling Tree	1.34068202	-0.498	-0.467	1.71242131	-1.20484116
478.	nMinnfield	field	sapling Tree	1.35351232	-0.458	-0.427	1.76588188	-0.82873066
479.	nMinnfield	field	sapling Tree	1.35545152	-0.117	-0.086	2.1087103	-0.83263599
480.	nMinnfield	field	sapling Tree	1.36163341	-0.362	-0.331	1.86973603	-1.00755717
481.	nMinnfield	field	sapling Tree	1.36225622	-0.376	-0.345	1.85588843	-0.96227796
482.	nMinnfield	field	sapling Tree	1.37421661	-0.165	-0.134	2.07939262	-0.81778342
483.	nMinnfield	field	sapling Tree	1.38098866	-0.309	-0.278	1.9416917	-0.81817756
484.	nMinnfield	field	sapling Tree	1.40052072	-0.359	-0.328	1.91107175	-0.90231902
485.	nMinnfield	field	sapling Tree	1.43018797	-0.625	-0.594	1.67475442	-0.85472181
486.	nMinnfield	field	sapling Tree	1.43396174	-0.460	-0.429	1.84360729	-1.19266187
487.	nMinnfield	field	sapling Tree	1.44218178	-0.379	-0.348	1.93281695	-0.9914867
488.	nMinnfield	field	sapling Tree	1.46874599	-0.326	-0.295	2.01243133	-0.87053086
489.	nMinnfield	field	sapling Tree	1.46982202	-0.294	-0.263	2.04563889	-0.93741162
490.	nMinnfield	field	sapling Tree	1.50749156	-0.358	-0.327	2.01931289	-0.93241589

491.	nMinnfield	field	Tree	1.51138865	-0.256	-0.225	2.12533851	-0.75662854
492.	nMinnfield	field	sapling					
492.	nMinnfield	field	Tree	1.54709751	-0.362	-0.331	2.05505865	-0.82016739
493.	nMinnfield	field	sapling					
493.	nMinnfield	field	Tree	1.55286281	-0.202	-0.171	2.22063918	-0.78089142
494.	nMinnfield	field	sapling					
494.	nMinnfield	field	Tree	1.57047289	-0.118	-0.087	2.32278234	-0.71540844
495.	nMinnfield	field	sapling					
495.	nMinnfield	field	Tree	1.57706649	-0.392	-0.361	2.05497158	-0.9004036
496.	nMinnfield	field	sapling					
496.	nMinnfield	field	Tree	1.58344817	-0.240	-0.209	2.21356299	-0.64394985
497.	nMinnfield	field	sapling					
497.	nMinnfield	field	Tree	1.58566373	-0.377	-0.346	2.07831735	-0.80851433
498.	nMinnfield	field	sapling					
498.	nMinnfield	field	Tree	1.58868619	-0.361	-0.330	2.09760736	-0.68029259
499.	nMinnfield	field	sapling					
499.	nMinnfield	field	Tree	1.59802407	-0.278	-0.247	2.18957808	-0.60291814
500.	nMinnfield	field	sapling					
500.	nMinnfield	field	Tree	1.60829064	-0.402	-0.371	2.07606599	-0.81549624
501.	nMinnfield	field	sapling					
501.	nMinnfield	field	Tree	1.61263554	-0.355	-0.324	2.12757022	-0.89936758
502.	nMinnfield	field	sapling					
502.	nMinnfield	field	Tree	1.63157566	-0.245	-0.214	2.25628576	-0.70316376
503.	nMinnfield	field	sapling					
503.	nMinnfield	field	Tree	1.66304097	-0.439	-0.408	2.09422438	-0.79105638
504.	nMinnfield	field	sapling					
504.	nMinnfield	field	Tree	1.67717792	-0.210	-0.179	2.33673652	-0.74787994
505.	nMinnfield	field	sapling					
505.	nMinnfield	field	Tree	1.68819728	-0.455	-0.424	2.1036367	-0.8177977
506.	nMinnfield	field	sapling					
506.	nMinnfield	field	Tree	1.69642629	-0.341	-0.310	2.22539861	-0.67803495
507.	nMinnfield	field	sapling					
507.	nMinnfield	field	Tree	1.70176652	-0.404	-0.373	2.16735069	-0.66660916
508.	nMinnfield	field	sapling					
508.	nMinnfield	field	Tree	1.72309429	-0.194	-0.163	2.39860469	-0.52143091
509.	nMinnfield	field	sapling					
509.	nMinnfield	field	Tree	1.72331608	-0.208	-0.177	2.38515128	-0.66134135
510.	nMinnfield	field	sapling					
510.	nMinnfield	field	Tree	1.73602979	-0.464	-0.433	2.14153389	-0.82418142
511.	nMinnfield	field	sapling					
511.	nMinnfield	field	Tree	1.7393587	-0.077	-0.046	2.53193406	-0.57054505
512.	nMinnfield	field	sapling					
512.	nMinnfield	field	Tree	1.79049628	-0.332	-0.301	2.32883208	-0.53474671
513.	nMinnfield	field	sapling					
513.	nMinnfield	field	Tree	1.81081701	-0.319	-0.288	2.36148938	-0.47885106
514.	nMinnfield	field	sapling					
514.	nMinnfield	field	Tree	1.85912628	-0.121	-0.090	2.60787362	-0.39819654
515.	nMinnfield	field	sapling					
515.	nMinnfield	field	Tree	1.88266112	-0.253	-0.222	2.49998549	-0.40013602
516.	nMinnfield	field	sapling					
516.	nMinnfield	field	Tree	1.89420526	-0.140	-0.109	2.62430539	-0.37742097
517.	nMinnfield	field	sapling					
517.	nMinnfield	field	Tree	1.89685677	-0.412	-0.381	2.35498493	-0.5182181
518.	nMinnfield	field	sapling					
518.	nMinnfield	field	Tree	1.91324678	-0.203	-0.172	2.57979171	-0.33577852
519.	nMinnfield	field	sapling					
519.	nMinnfield	field	Tree	1.93577421	-0.033	-0.002	2.77266111	-0.20793394
520.	nMinnfield	field	sapling					
520.	nMinnfield	field	Tree	1.96056115	-0.315	-0.284	2.51509318	-0.29166027
521.	nMinnfield	field	sapling					
521.	nMinnfield	field	Tree	1.97800238	-0.313	-0.282	2.53450929	-0.26178161
522.	nMinnfield	field	sapling					
522.	nMinnfield	field	Tree	1.98298542	-0.156	-0.125	2.69663405	-0.22159382

523.	nMinnfield	field	sapling Tree	1.99044986	-0.312	-0.281	2.54818658	-0.44549424
524.	nMinnfield	field	sapling Tree	2.06256694	-0.267	-0.236	2.66546565	-0.37271184
525.	nMinnfield	field	sapling Tree	2.21065555	-0.257	-0.226	2.82378208	-0.06926812
526.	nMinnfield	field	sapling Tree	2.25967987	-0.147	-0.116	2.98309432	0.06698295
527.	nMinnfield	field	sapling Tree	2.31813432	-0.213	-0.182	2.97524473	0.10239417
528.	nMinnfield	field	sapling Tree	2.3205513	-0.257	-0.226	2.93353954	0.04923508
529.	nMinnfield	field	sapling Tree	2.34242702	-0.394	-0.363	2.81836986	0.02557341
530.	nMinnfield	field	sapling Tree	2.3582357	-0.078	-0.047	3.15016735	0.07073226
531.	nMinnfield	field	sapling Tree	2.38842804	-0.172	-0.141	3.08653488	0.21417073
532.	nMinnfield	field	sapling Tree	2.41218157	-0.037	-0.006	3.24563513	0.15472559
533.	nMinnfield	field	sapling Tree	2.41360819	-0.084	-0.053	3.1997201	0.09886431
534.	nMinnfield	field	sapling Tree	2.58421019	-0.262	-0.231	3.19178557	0.29602174
535.	nMinnfield	field	sapling Tree	2.61122821	-0.214	-0.183	3.26772626	0.33151245
536.	nMinnfield	field	sapling Tree	2.67995364	-0.102	-0.071	3.44751068	0.45422995
537.	nMinnfield	field	sapling Tree	2.74517242	-0.165	-0.134	3.44979971	0.54203771

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