

measurements in mm

7 stems

Plant ID	Soil	Treatment T1	Population	Nutrients	stem dia T1	larg bran dia T1	leaves T1	branches T1	
2	U/D	Episodic flood	Green	+N L	7	6.5	49	13.9, 847	2
3	U/D	Submerged	Green	+N B	11.9	6.1	97	309, 120.7, 255, 325, 667	5
10	U/BC	Submerged	Blue	+N L	7.6	5.8	111	14, 38.2, 740	3
17	D/BC	Normal	Yellow/White	+N B	10.1	7.3	108	224, 38.0, 603	3
23	D	Half	Pink	+N L	10.1	6.8	181	23.3, 19.2, 60.9, 374, 366	5
25	U	Episodic flood	Yellow/White	+N B	9.9	6.0	49	22.3, 525	2
36	BC	Half	Green	+N L	10.8	6.0	61	334, 745	2
47	U/BC	Submerged	Yellow/White	+N B	11.6	6.6	107	250, 618, 605	3
51	D/BC	Normal	Blue	+N L	9.2	7.2	150	63.4, 59.3, 42.8, 227, 812	5
55	D	Half	Green	+N B	12.3	7.5	56	21.6, 825	2
61	U	Normal	Pink	+N L	9.6	8.4	72	65.4, 39.4, 32.9, 30.0, 490	5
70	BC	Episodic flood	Blue	+N B	9.1	7.2	48	685	1
78	U/D	Submerged	Yellow/White	+N L	7.7	6.7	222	105, 290	2
79	U/BC	Half	Green	+N B	11.5	6.3	85	7.6, 512, 12.8, 452	4
89	D/BC	Episodic flood	Pink	+N L	10.2	6.2	138	2.1, 6.0, 3.0, 3.5, 61.1, 19.9, 3.4, 18.4, 11.1	11   140, 63
91	D	Submerged	Yellow/White	+N B	11.2	5.6	119	15.0, 6.5, 28.2, 322, 628	5
100	U	Half	Blue	+N L	9.7	5.4	87	13.9, 305, 190, 130, 630	5
105	BC	Normal	Pink	+N B	9.3	6.8	87	25.5, 88.8, 44.0, 35.0, 40.6, 275, 304	7
110	U/D	Half	Blue	+N B	8.6	5.5	137	157, 310, 85, 122, 298, 309	6
120	U/BC	Normal	Pink	+N L	8.9	6.2	150	535	1
121	D/BC	Normal	Green	+N L	9.4	6.7	106	60.1, 51.9, 346, 915	4
130	D	Episodic flood	Blue	+N L	8.1	3.4	168	7.5, 23.3, 27.4, 352, 128, 280, 180, 110, 200	10   370
138	U	Submerged	Green	+N B	8.6	5.0	73	36.0, 11.4, 375, 424	4
144	BC	Half	Yellow/White	+N B	8.4	4.6	45	400	1
151	U/D	Half	Pink	+N B	10.6	4.1	109	170, 269	2
152	BC	Episodic flood	Pink	+N				missing	
154	D/BC	Episodic flood	Pink	+N L	10.6	5.5	191	200, 292, 451	3
155	D	Half	Pink	+N B	7.5	3.4	52	121.7, 155, 130	3
164	BC	Submerged	Green	+N L	8.4	5.5	88	12.5, 9.1, 5.6, 1.9, 69.2, 245, 370	7

7/10/09

# branches

Plant ID	Soil	Treatment	Population	Nutrients	stem dia T1	larg bran dia T1	leaves T1	branches T1	
8	U/BC	Half	Blue	+N +P	11.9	8.8	102	28.9, 8.8, 33.9, 770, 995	5
16	D/BC	Episodic flood	Yellow/White	+N +P	12.9	6.5	103	350, 550, 635	3
24	D	Normal	Pink	+N +P E	9.6	6.5	126	21.5, 105, 480	3
30	U	Episodic flood	Yellow/White	+N +P L	8.4	4.6	71	5.4, 12.4, 40.2, 47.6, 325, 432	6
31	BC	Normal	Green	+N +P E	8.9	4.3	106	280, 360, 140, 245	4
41	U/D	Submerged	Pink	+N +P L	10.7	5.1	131	14.7, 24.5, 15.3, 20.7, 29.9, 35.7, 70.8, 51.6, 32.8, 47.9, 260, 340	12
44	U/BC	Episodic flood	Yellow/White	+N +P E	9.9	6.0	108	10.1, 16.0, 450, 220, 340, 480	6
52	D/BC	Half	Blue	+N +P L	9.0	5.2	150	11.8, 90, 125, 485, 600, 330, 235	7
60	D	Episodic flood	Green	+N +P E	8.6	7.3	63	16.3, 13.8, 690	3
62	U	Normal	Pink	+N +P L	8.1	4.5	58	450	1
67	BC	Submerged	Blue	+N +P E	4.6	3.1	79	31.6, 210, 2, 170	4
74	U/D	Episodic flood	Yellow/White	+N +P L	12.7	5.2	87	13, 51.3, 56.0, 340, 410	5
83	U/BC	Half	Green	+N +P L	10.2	5.5	186	11.7, 44.3, 170, 210, 601	5
86	D/BC	Episodic flood	Pink	+N +P E	12.6	7.4	141	2.6, 5.3, 24.4, 4.8, 330, 620, 50, 60, 410	9
95	D	Half	Yellow/White	+N +P					
99	U	Episodic flood	Blue	+N +P L	9.6	4.2	155	98, 120, 153, 218, 292	5
103	BC	Normal	Pink	+N +P E	8.5	6.3	92	23.4, 50.7, 215, 495	4
114	U/D	Submerged	Blue	+N +P L	8.2	5.8	147	21.1, 40.0, 50.0, 74.8, 84.8, 170, 545	7
119	U/BC	Half	Pink	+N +P E	9.5	6.3	155	14.4, 21.8, 12.3, 200, 42.5	5
123	D/BC	Normal	Green	+N +P L	10.6	7.0	102	14.8, 8.6, 152, 96.1, 215, 815, 60	7
127	D	Submerged	Blue	+N +P E	9.1	6.3	113	480, 170, 45.5, 595	4
133	U	Half	Green	+N +P L	9.2	5.6	47	625	1
139	BC	Normal	Yellow/White	+N +P E	10.8	8.7	111	40.7, 2.2, 8.5, 58.0, 39.5, 540	6
146	BC	Episodic flood	Blue	+N +P L	11.9	6.1	60	9.0, 9.5, 47.4, 66.6, 490	5
150	U	Episodic flood	Blue	+N +P L	7.8	4.8	121	13.6, 54.9, 122.9, 8.0, 600	5
159	U/BC	Half	Yellow/White	+N +P L	10.2	6.8	49	58.8, 160, 37.8	3
168	U	Submerged	Green	+N +P E	9.0	5.1	198	6.1, 280, 225	3
175	U/D	Episodic flood	Green	+N +P L	8.7	5.1	168	27.8, 20.3, 2.7, 4.0, 36.0, 80.3, 435, 740	8
178	D/BC	Half	Green	+N +P E	9.8	7.6	122	175, 850, 690, 115	4

Plant ID	Soil	Treatment T1	Population	Nutrients	stem dia T1	larg bran dia T1	leaves T1	branches T1	# stems
11	U/BC	Normal	Blue	+N +P +micro	L 7.7	5.0	118	13.2, 115, 246, 240, 520	5
13	D/BC	Submerged	Yellow/White	+N +P +micro	B 12.4	7.2	146	13.9, 18.3, 20.3, 41.1, 249, 630, 689	7
20	D	Half	Pink	+N +P +micro	B 8.5	7.1	114	28.1, 34.8, 264, 9.6, 14.9, 52.4, 445	7
29	U	Half	Yellow/White	+N +P +micro	B 9.3	5.9	82	605, 12.2	2
35	BC	Normal	Green	+N +P +micro	B 7.3	4.7	88	392, 701, 14.4, 160, 139	5
38	U/D	Episodic flood	Pink	+N +P +micro	B 13.8	4.6	89	8.1, 299, 132, 435, 34.9, 240	6
45	U/BC	Normal	Yellow/White	+N +P +micro	B 10.5	4.9	177	6.7, 9.2, 12.4, 20.6, 29.9, 46.3, 9.2, 160, 479	11
49	D/BC	Episodic flood	Blue	+N +P +micro	X 8.2	5.6	121	175, 168, 415, 782	4
56	D	Half	Green	+N +P +micro	B 10.9	7.7	82	12.7, 8.9, 31.6, 64.2, 748,	5
64	U	Half	Pink	+N +P +micro	X 7.0	4.9	105	31.0, 62, 171, 646	4
69	BC	Normal	Blue	+N +P +micro	B 8.1	4.7	75	315, 320, 402	3
73	U/D	Normal	Yellow/White	+N +P +micro	L 13.9	5.2	116	39.4, 355, 80, 590, 610, 33.2	6
81	U/BC	Submerged	Green	+N +P +micro	X 7.8	6.5	79	18.0, 972,	2
90	D/BC	Submerged	Pink	+N +P +micro	B 10.4	7.4	127	579, 160, 420, 288	4
94	D	Normal	Yellow/White	+N +P +micro	X 8.9	5.2	141	408, 10, 123, 33, 203, 235, 427, 4.6	8
102	U	Submerged	Blue	+N +P +micro	L 11.1	5.2	84	24.5, 17.4, 32.1, 210, 560	5
107	BC	Normal	Pink	+N +P +micro	X 8.9	5.8	99	28.1, 27.9, 78.9, 23.1, 467	5
113	U/D	Half	Blue	+N +P +micro	L 9.6	5.7	97	72, 260, 383, 652	4
118	U/BC	Episodic flood	Pink	+N +P +micro	B 9.9	7.5	94	86.3, 135, 41.7, 16.3, 614	5
126	D/BC	Episodic flood	Green	+N +P +micro	L 11.1	6.9	116	13.3, 36.2, 80.4, 150.4, 275, 910	6
128	D	Submerged	Blue	+N +P +micro				missing	
136	U	Episodic flood	Green	+N +P +micro	L 11.2	6.3	50	11.4, 54.0, 645	3
141	BC	Episodic flood	Yellow/White	+N +P +micro	B 7.9	5.5	98	32.0, 95.7, 27.1, 542	4
145	U/D	Half	Blue	+N +P +micro	X 9.7	5.1	187	27.9, 79, 188, 502	4
163	U/D	Normal	Green	+N +P +micro	B 12.7	8.6	80	144, 772, 154	3
165	U/BC	Episodic flood	Green	+N +P +micro	L 9.4	5.7	123	6.2, 3.6, 5.0, 80.6, 74.4, 390, 680	7
166	D/BC	Normal	Green	+N +P +micro	L 9.4	6.6	100	14.7, 19.3, 870	3
180	U	Submerged	Green	+N +P +micro	X 8.8	7.4	39	615	1

Plant ID	Soil	Treatment T1	Population	Nutrients	stem dia T1	larg bran dia T1	leaves T1	branches T1	# stems
1	U/D	Half	Green	+P				missing	
6	U/D	Episodic flood	Green	+P	6.6	5.8	76	159, 58.1, 716	3
9	U/BC	Episodic flood	Blue	+P	7.4	4.5	91	151, 554, 705	3
18	D/BC	Normal	Yellow/White	+P	12.5	5.6	128	6.8, 554, 57.3, 274, 689	5
22	D	Normal	Pink	+P	7.7	6.5	133	681	1
32	BC	Half	Green	+P	5.7	3.3	90	133.8, 174, 23.6, 161, 364	5
34	BC	Submerged	Green	+P	7.6	4.9	62	11.5, 35.4, 560	3
40	U/D	Episodic flood	Pink	+P	6.9	4.3	74	590, 543	2
48	U/BC	Submerged	Yellow/White	+P	10.6	5.7	114	561, 232, 634	3
54	D/BC	Half	Blue	+P	7.9	6.1	178	48.4, 202, 24.4, 15.5, 235, 620	6
59	D	Normal	Green	+P	7.4	5.3	88	49.1, 24.8, 9.7, 11.7, 32.6, 14.8, 624	7
65	U	Episodic flood	Pink	+P	7.3	4.1	66	10.2, 34.8, 254, 407	4
72	BC	Normal	Blue	+P	9.9	7.4	91	204, 10.2, 25.2, 22.8, 81, 674	6
77	U/D	Submerged	Yellow/White	+P	7.3	4.7	84	24.6, 153, 570, 454	4
82	U/BC	Submerged	Green	+P	8.6	4.7	70	24.0, 490, 631	3
88	D/BC	Normal	Pink	+P	8.7	5.5	106	0.9, 0.8, 69.4, 284, 750	5
96	D	Submerged	Yellow/White	+P	8.5	4.2	211	45.2, 41.4, 201, 151, 365, 321	6
101	U	Episodic flood	Blue	+P	4.5	3.8	57	370, 443	5
106	BC	Half	Pink	+P	9.9	6.1	194	130, 48, 1.8, 457	4
111	U/D	Submerged	Blue	+P	8.1	7.7	110	338, 6.9, 3.9, 5.2, 787	5
117	U/BC	Episodic flood	Pink	+P	7.7	4.2	91	21.3, 29.5, 356, 68, 12.6, 20.1, 234	7
125	D/BC	Half	Green	+P	8.4	5.5	140	6.4, 21.1, 217, 587, 7.5, 452	6
129	D	Normal	Blue	+P	5.9	5.4	61	217, 9.7, 10.9, 731	4
134	U	Submerged	Green	+P	9.0	5.4	69	294, 41.9, 573	3
143	BC	Submerged	Yellow/White	+P	7.2	2.0	96	224, 285, 283, 8.8, 143, 10.8	6
148	D/BC	Episodic flood	Blue	+P	8.7	5.9	148	38.4, 3.0, 7.8, 261, 16.5, 592	6
156	U	Episodic flood	Pink	+P	6.6	4.2	114	135, 184, 30, 57, 188	5
162	U	Normal	Yellow/White	+P	6.4	4.2	38	207, 244, 92	3
174	U	Submerged	Pink	+P	7.1	4.6	75	347, 390	2

Plant ID	Soil	Treatment T1	Population	Nutrients	stem dia T1	larg bran dia T1	leaves T1	branches T1	# stems
4	U/D	Half	Green	control	8.6	5.9	80	560, 220	2
12	U/BC	Submerged	Blue	control	7.8	5.9	132	15, 20, 80, 70, 610, 530, 3.9	7
15	D/BC	Normal	Yellow/White	control				Missing	
21	D	Episodic flood	Pink	control	10.1	4.8	176	107, 454, 154, 262	4
26	U	Normal	Yellow/White	control	10.0	6.3	84	209, 565	2
33	BC	Submerged	Green	control	8.3	6.1	66	633, 202	2
39	U/D	Episodic flood	Pink	control	7.4	5.8	76	14.7, 125, 460	3
43	U/BC	Half	Yellow/White	control	9.8	6.3	156	199, 5.8, 6.7, 11.2, 99, 3.1, 15.4, 20.6, 25.3, 7, 10.9, 1.9	15 →
50	D/BC	Episodic flood	Blue	control	7.8	7.2	82	884, 294	2
57	D	Normal	Green	control	9.5	6.3	94	85.3, 21.8, 565, 685	4
66	U	Submerged	Pink	control	9.3	4.5	68	32.5, 352, 372	3
68	BC	Episodic flood	Blue	control	7.4	3.8	96	13.9, 24.4, 94.3, 39.30, 102, 415, 246, 420, 14.4, 15.2	11
75	U/D	Normal	Yellow/White	control	9.8	6.0	135	23.5, 14, 357, 94, 50, 49, 288, 34, 142, 212, 545, 189	12
84	U/BC	Half	Green	control	6.3	4.2	163	252, 282, 575	3
87	D/BC	Episodic flood	Pink	control	7.7	5.5	131	55, 172, 414, 675	4
93	D	Normal	Yellow/White	control	7.6	4.3	158	297, 20, 92, 273	4
97	U	Half	Blue	control	5.6	4.1	59	3.6, 3.6, 415	3
104	BC	Submerged	Pink	control	6.6	5.5	99	221, 32, 75, 204	4
109	U/D	Episodic flood	Blue	control	6.1	4.5	100	109, 151, 21, 4, 19, 27, 141, 322	8
116	U/BC	Submerged	Pink	control	11.2	6.5	69	79, 569	2
124	D/BC	Episodic flood	Green	control	8.1	5.4	157	17, 707	2
132	D	Submerged	Blue	control	7.9	4.6	133	216, 16, 33, 65, 19, 14, 2.1, 523, 13.4, 495	10
135	U	Episodic flood	Green	control	6.4	3.6	67	21.9, 1.5, 350, 225	4
140	BC	Episodic flood	Yellow/White	control	8.6	5.1	67	53, 10.4, 47, 46, 594, 31	6
147	U/BC	Normal	Blue	control	11.9	4.8	216	8.6, 3.6, 435, 53, 374, 366	6

Plant ID	Soil	Treatment T1	Population	Nutrients	stem dia T1	larg bran dia T1	leaves T1	branches T1	# STEMS
5	U/D	Half	Green	micro	7.0	4.7	113	119, 13, 410, 19, 370	5
7	U/BC	Episodic flood	Blue	micro	7.6	4.7	158	104, 105, 8.2, 34, 320, 637	6
14	D/BC	Episodic flood	Yellow/White	micro	10.4	5.8	114	153, 40, 99, 49, 158, 607	6
19	D	Episodic flood	Pink	micro	8.6	7.0	135	12.6, 612	2
27	U	Episodic flood	Yellow/White	micro	10.2	4.5	71	225, 8.3, 6.2, 297, 480	5
37	U/D	Submerged	Pink	micro	8.6	3.9	71	482, 24.8, 454,	3
42	U/D	Episodic flood	Pink	micro	8.4	5.2	117	21, 279, 192, 320, 20, 170, 40, 120	8
46	U/BC	Half	Yellow/White	micro	10.1	6.7	81	585, 632,	2
53	D/BC	Episodic flood	Blue	micro	7.6	4.9	133	176, 272, 133, 537, 121, 632	6
58	D	Episodic flood	Green	micro	7.1	4.6	88	22.7, 23.4, 411, 2.6, 1.0, 432, 486	7
63	U	Submerged	Pink	micro	8.1	4.5	110	6.3, 73, 345, 494	4
71	BC	Episodic flood	Blue	micro	7.8	4.1	83	18, 290, 282, 64, 12, 548	6
76	U/D	Half	Yellow/White	micro	11.2	5.0	131	307, 502, 187, 63, 52, 168	6
80	U/BC	Episodic flood	Green	micro	9.3	7.1	118	765	1
85	D/BC	Normal	Pink	micro	9.8	6.9	171	50, 692	2
92	D	Normal	Yellow/White	micro	8.8	5.4	139	26, 14, 13, 16, 19, 354, 56, 343, 490	8
98	U	Submerged	Blue	micro	9.8	5.4	95	57, 35, 28, 24, 8, 223, 714	7
108	BC	Episodic flood	Pink	micro	9.0	4.3	49	1.3, 46, 23, 304	4
112	U/D	Normal	Blue	micro	7.9	4.6	141	46, 330, 45, 205, 424, 446	6
115	U/BC	Normal	Pink	micro	7.9	5.5	176	158, 461, 212	3
122	D/BC	Episodic flood	Green	micro	9.8	7.5	66	2.9, 861	2
137	U	Episodic flood	Green	micro	9.2	5.2	55	207, 564	2
149	D	Episodic flood	Blue	micro	11.8	6.2	120	451, 70, 141, 509, 815	5
158	BC	Half	Yellow/White	micro	8.0	5.1	52	185, 159, 492	3
170	BC	Submerged	Pink	micro	7.8	5.0	91	21, 21, 5, 9, 7, 25, 557	7
172	D/BC	Episodic flood	Pink	micro	10.7	5.5	126	11, 1.9, 1.2, 34.4, 2.2, 12.5, 12.6, 26.9, 40.0, 30.5	12
176	BC	Episodic flood	Green	micro	8.8	4.3	82	150, 200, 59, 125, 595	5
179	D	Episodic flood	Green	micro	10.3	4.7	87	11, 19, 9, 383, 434	5