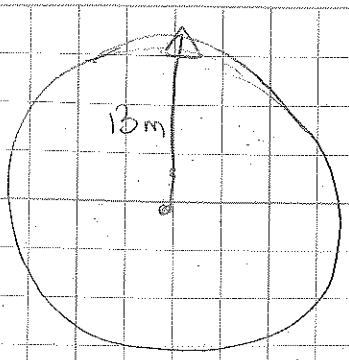
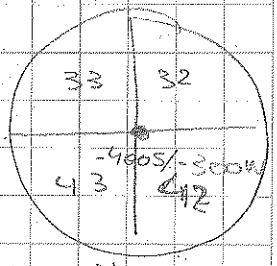


Measure/map/core DBH>10cm

Monday, May 6th 2013

42.53065N, 72.18316W
± 8.1M
344m elev.



Plot 1 -400S/-300W Lyford Plot

	#	Species	Canopy	Live/dead	DBH	Dist m	Azimuth	Plot	
123	1	TSCA	Suppressed	live	18.1	7.6	20°	32	
123	2	QURU	Super dominant	live	66.0	7.2	36°	32	X
123	3	ACRU	Suppressed	live	22.3	7.5	52°	32	
123	4	ACRU	intermediate	live	30.4	10.6	48°	32	X
12	5	ACRU	suppressed	live	15.6	9.7	44°	32	X
	6	ACRU	suppressed	dead	12.0	9.7	44°	32	
1	7	BEAL	intermediate	alive	22	11.9	78°	32	
1234	8	TSCA	Suppressed	alive	11.6	6.1	96°	42	X
123	9	FAGR	dominant	alive	33.9	3.3	112°	42	X
1234	10	ACRU	dominant	alive	29.4	8.4	136°	42	
12	11	ACRU	suppressed	alive	20.6	12.8	142°	42	X
123	12	QURU	dominant	alive	59.0	7.8	210°	42	
123	13	QURU	intermediate	alive	43.0	4.3	190°	42	
12	14	see comments	Suppressed	dead	23.6	8.4	226°	43	
12	15	QURU	intermediate	alive	49.4	12.4	234°	43	
123	16	QURU	co-dominant	alive	41.9	12.0	218°	43	
1234	17	FAGR	Suppressed	alive	10.3	3.2	266°	43	
12	18	ACRU	co-dominant	alive	26.0	3.4	346°	33	
12	19	TSCA	suppressed	alive	10.4	6.4	294°	33	
1234	20	QURU	Super dominant	alive	69.0	9.5	276°	33	X
1234	21	BEAL	Suppressed	alive	20.1	11.1	302°	33	

Comments

plot 1-tree 3 between suppressed & intermediat

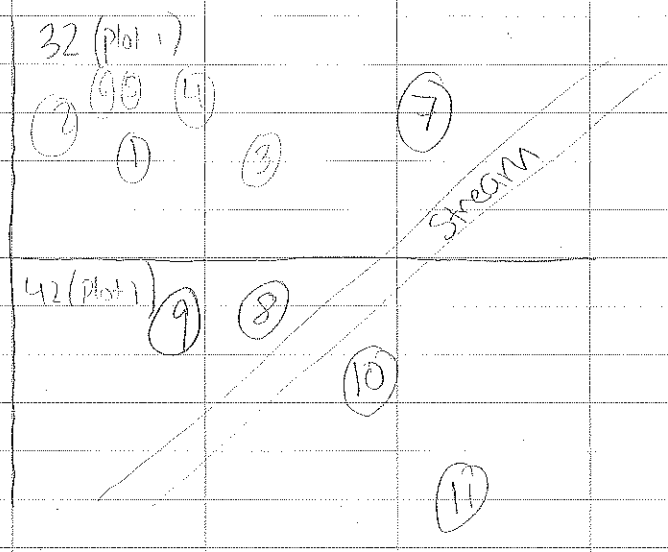
plot 1 tree 4 between intermediate & canopy + hollow

plot 1 tree 6 dead & hollow

plot 1 tree 7 wounds & cankers, leaning towards, suppressed, dying

plot 1 tree 8 cored ~ 60 cm from the ground

plot 1 tree 11 tip is broken 12-15 ~~feet~~ from top, snapped; hollow



plot 1 tree 14- broken 12-15 meters above ground, very decayed
Species not identified- either poplar or alder, only 2 cores

plot 1 tree 18- rotten, only two cores

plot 1 tree 19- only two cores

plot 1 tree 20- rotten

Understory

Plot 32

Species	DBH	Comments
FAGR	7.6 cm	
TSCA	6.9 cm	Ing
TSCA	6.6 cm	Ing
HAVI	5.9 cm	Ing
FAGR	3.1 cm	
FAGR	6.4 cm	
FAGR	7.9 cm	from same stem
FAGR	8.6 cm	
BEAL	9.8 cm	

Plot 42

Species	DBH	Comment
FAGR	4.3 cm	
FAGR	4.6 cm	
BEAL	6.2 cm	
FAGR	6.5 cm	
FAGR	3.5 cm	
FAGR	7.0 cm	

Plot 43

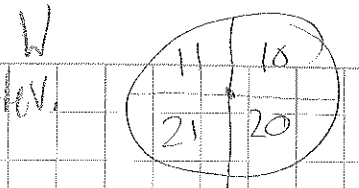
Species	DBH	Comments
FAGR	5.0 cm	
BEAL	5.0 cm	
HAVI	5.5 cm	Ing
HAVI	6.2 cm	Ing
HAVI	5.5 cm	Ing
HAVI	4.9 cm	Ing
CARE	6.4 cm	
TSCA	9.2 cm	

Plot 33

Species	DBH	Comments
FAGR	3.1 cm	
HAVI	5.2 cm	Ing
HAVI	6.3 cm	
HAVI	6.3 cm	
HAVI	6.7 cm	Ing
HAVI	5.7 cm	Ing
HAVI	5.6 cm	Ing
TSCA	9.8 cm	

LF2 42.53128 N, 72.18271 W ± 7.3m, 342m elev.

Plot 2



-20S, -100W

#	Species	Canopy	Live/dead	DBH	Distance	Asym	Plot	
1	ACRU	Intermediate	alive	19.4	8.4	48°	10	123
2	BEAL	Suppressed	alive	13.0	9.9	18°	10	X 123
3	ACRU	suppressed	dead	16.2	9.9	24°	10	
4	ACRU	intermediate	alive	21.6	12.1	30°	10	1234
5	BEAL	Suppressed	alive	11.0	12.1	54°	10	X 12
6	BEAL	Suppressed	alive	13.9	12.1	62°	10	X 1234
7	ACRU	suppressed	dead	11.5	6.3	84°	10	
8	QURU	Dominant	alive	53.8	3.8	110°	20	1
9	QURU	Intermediate	alive	31.2	4.3	118°	20	123
10	QURU	Dominant	alive	58.4	7.4	152°	20	123
11	QURU	Co-Dominant	alive	38.2	11.2	168°	20	123
12	ACRU	Suppressed	alive	12.2	7.3	182°	20	123
13	FAGR	suppressed	alive	13.1	9.4	178°	20	1234
14	ACRU	intermediate	alive	23.9	9.4	136°	20	123
15	BEAL	Suppressed	alive	13.7	8.0	186°	21	12
16	ACRU	suppressed	alive	15.7	8.1	206°	21	X 123
17	QURU	intermediate	alive	31.3	10.7	200°	21	X 123
18	ACRU	Suppressed	alive	16.3	12.10	238°	21	X 12
19	ACRU	Suppressed	alive	23.2	11.6	264°	21	12
20	QURU	dominant	alive	49.4	12.2	260°	21	X 123
21	QURU	intermediate	alive	30.1	11.7	268°	21	123
22	ACRU	intermediate	alive	21.2	4.6	316°	11	X 12
23	FAGR	Suppressed	alive	13.4	4.2	0°	11	12
24	ACRU	Suppressed	alive	15.2	7.5	350°	11	
25	QURU	co-dominant	alive	58.5	8.6	350°	11	X 123
26	QURU	co-dominant	alive	50.9	8.4	332°	11	123
27	ACRU	Suppressed	dead	16.1	8.3	322°	11	
28	ACRU	intermediate	alive	29.2	11.8	300°	11	X
29	QURU	[illegible]	alive	58.1	12.7	304°	11	123
30	ACRU	intermediate	alive	20.0	12.2	10°	11	X 123
31	ACRU	Suppressed	alive	10.8	12.3	242°	11	X 123

plot 2 comments

plot 2 tree 3 - not cored, dead & other

plot 2 tree 7 - hollow, break off at 1.5m

plot 2 tree 8 - lively cored to 2023

plot 2 tree 20 - rotten - south core is partial

plot 2 tree 27 - dead / not cored

Deadwood

Transect #1 (plot 0°)

Species	DBH	Decay	Distance	Length	Orientation	Comments
conifer	31 mm	class 3				
broadleaf	31 mm	class 2				
Oak	210mm	class 4	6 metres from end	7m	Perpendicular to transect	2/2 metres in plot 10
Oak	32 mm	class 3				
broadleaf	66mm	class 1				maybe ? maple ?
broadleaf	31mm	class 1				
Oak	64mm	class 3				

Transect # 2 (190°)

maple	25mm	class 1				
Oak	31mm	Class 1				
Oak	57mm	class 2				
maple	83mm	class 1				
maple	58mm	class 4				
CADE	41mm	class 1				

Transect # 3 (180°)

maple	120 mm	class 3		4m		
broadleaf	110 mm	class 5	2 metres	2m	perpendicular	

Species	DBH	Decay	Distance	Length	Orientation
Oak	180mm	class 3		8m	perpendicular
Oak	55mm	class 2			
Oak	210mm	class 5		5m	perpendicular
Oak	27mm	class 2			
Oak Transect 4 (270°)					
maple	105mm	class 3			
Oak	24mm	class 2			
viburnum	159mm	class 5		4m	=
Oak	60mm	class 4			
Oak	37mm	class 4			
oak	33mm	class 3			

Understory

Plot 10 (1)

Species	DBH	Comments
CADE	2.5	
CADE	8.4	
CADE	3.5	
PIST	5.0	
ACRU	5.8	DEAD
CADE	5.1	
Plot 20		
CADE	2.5	
CADE	7.2	
~~BEAL~~	5.5	Img
PIST	2.7	Plot 21
BEAL	7	
ACRU	2.9	
CADE	7.8	
CADE	3	
CADE	3.7	
ACRU	7	
ACRU	5.5	
PAGR	4.3	
BEAL	7.2	
Plot 11		

nothing

Plot 3 — Lyford Plot 3 LF3 — 42.53008N, 72.18246W ± 5.5M, 348M elev.

#	Species	Canopy	live/dead	DBH	Distance	Azm	Plot
1	QURU	codominant	alive	37.9	10.0m	356°	S1
2	QURU ★	intermediate	alive	19.8	11.2	16°	S1 12
3	FAGR?	suppressed	alive	20.3	7.4m	22°	S1 123
4	QURU	co-dominant	alive	32.9	0.6m	58°	S1 X3
5	QURU	intermediate	alive	19.0	6.6m	70°	S1 12
6	QURU	dominant	alive	61.0	11.1m	70°	S1 123
7	HAVI	suppressed	alive	10.2	9.1m	88°	S1 X12
8	QURU	intermediate	alive	21.5	12.4m	40°	S1 12
9	ACRU	dominant	alive	35.5	8.3m	180°	61 123
10	FAGR	dominant	dead	46.3	9.7m	156°	61 X3
11	ACRU	intermediate	alive	35.7	11.2m	124°	61 12
12	PIST	suppressed	alive	25.6	12.2m	102°	61 123
13	ACRU	suppressed	alive	15.8	8.5m	94°	61 123
14	QURU	co-dominant	alive	35.8	1.7m	250°	60 X12
15	BEAL	suppressed	alive	10.8	2.6m	212°	60 123
16	ACRU	suppressed	dead	13.3	4.3m	218°	60 X12
17	ACRU	dominant	alive	50.0	10.9m	186°	60 X123
18	QURU	intermediate	dead	22.2	9.3m	259°	601
19	QURU	dominant	alive	39.6	11.3m	268°	60 123
20	BEAL	suppressed	alive	10.4	10.8m	236	60 X123
21	QURU	dominant	alive	58.9	12.8m	310°	50 1234
22	QURU	intermediate	alive	24.8	10.7m	298°	50 123
23	QURU	intermediate	alive	22.3	8.2m	318°	501
24	ACRU	suppressed	alive	17.5	10.0m	318°	50 123
25	ACRU	suppressed	alive	15.4	9.8m	280°	50 12
26	QURU	suppressed	alive	18.8	12.0m	270°	50 123
27	QURU	co-dominant	alive	36.1	12.2m	358°	5013 3

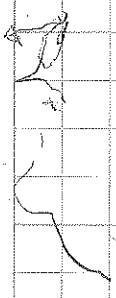
~~38 7 18~~

11 GAS 0522

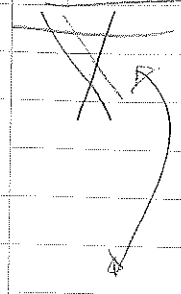
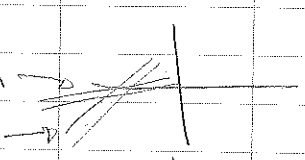
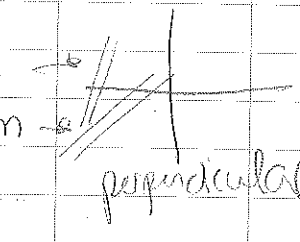
Plot 3 comments

plot 3 tree 1 - two stems, only one visible
plot 3 tree 4 - large knot west facing
general - Stone wall on edge of Plot 31

plot 3 tree 9 - crown touches dead beech possible release
plot 3 tree 10 - dead but took 3 cores, when raised appears not dead for long
plot 3 tree 11 - alive but entirely rotten, only bark & cones
plot 3 tree 9 - rotten to ground middle
plot 3 tree 16 - only two cores, tree is dead & rotten
plot 3 tree 18 - only two cores, tree is dead & rotten
plot 3 tree 25 - tree is rotten, west & east are mirror opposites, north core is rotten as well
plot 3 tree 27 - rotten
pit 2 round hyperskeletal



Deadwood

Species	DBH	Decay	Distance	length	orientation	comments
transect 1 (0°)						
oak	129	class 3		10m		
oak	34	class 2				
oak	27	class 2				
BEAL	26	class 2				
transect 2 (90°)						
Oak	123	class 3				
oak	124	class 3		9m	perpendicular	
oak	92	class 3	4 meters from plot center			
Oak	152	class 3		4m	angled out of plot	
transect 3 (180°)						
Oak	58	class 2				
oak	74	class 3				
transect 4 (270°)						
oak	115	class 3		7m		
Oak	200	class 3		13m		
oak	55	class 3				
maple	100	class 2		12m		
oak	174	class 3		17m		
oak	110	class 3		9.5	perpendicular	

~~Conifers~~

plot 51 (1)

Species	DBH	comments
CADE	6.8	
PIST	3.2	barely alive
BEAL	9.5	
CADE	4.0	
FAGR	3.2	
FAGR	6.8	
FAGR	6.0	
FAGR	9.3	
FAGR	6.3	

plot 60 (3)

FAGR	7.4
BEAL	4.2
HAM	4.7

plot 61 (2) — ing / ing

Plot 50 (4)

Species	DBH	comments
CADE	7.5	
FAGR	7.4	

LF1: 20m extension Lyford, Harvard Forest, MA 11/3/14

#		Sp	Canopy	Li/Dead	DBH	Dist	Az.	Notes
22	1	QURU	Dom	Li	67.5	13.2	10°	W, E
22	3	NYSY	Supp	Li	26.9	19.8	16°	W-E
22	4	TSCA	Supp	Li	28.4	18.3	31°	W-E
22	5	BEAL	Co	Li	41.0	20.0	39°	E, W Rot
22	6	TSCA	Supp	Li	23.7	13.3	45°	E-W
22	7	TSCA	Supp	Li	20.1	17.4	77°	E-W
EW	28	TSCA	Int	Li	21.4	13.3	85°	Large dead Birch next to it
EW	29	BEAL	Co	Sn	26.5	16.4	98°	2 x 18m to W
NE	30	QURU	Co	Li	44.6	12.1	131°	
	31	QURU	Supp	Li	28.6	16.3	138°	
	32	QURU	Dom	Li	62.2	13.3	148°	
	33	QURU	Co	Li	60.6	19.4	143°	
	34	BELE	Supp	Li	27.4	19.7	164°	
	35	ACRU	Supp	Li	28.1	12.8	201°	
	36	QURU	Co	Li	37.5	18.6	199°	
	37	QURU	Co	Li	39.5	15.0	222°	
	38	FAGR	Supp	Li	28.8	14.8	261°	Multi-stemmed
	39	ACRU	Supp	Li	21.7	10.6	274°	
	40	QURU	Co	Li	53.9	14.3	274°	
	41	QURU	Co	Li	42.2	15.4	282°	
	42	QURU	Co	Li	53.4	14.8	296°	
	43	ACRU	Supp	Li	21.0	13.4	315°	
	44							

LF2: 20m extension

EW	2	ACRU	Supp	Li	24.5	18.3	28°	
EW	28	QURU	Co	Li	42.8	20.0	48°	
	24	QURU	Co	Li	55.9	14.1	39°	Rope on side facing out
	25	BELE	Supp	Li	28.8	17.0	53°	
	26	QURU	Dom	Li	76.5	19.2	86°	
	27	ACRU	Int	Li	21.2	20.0	102°	
	28	QURU	Co	Li	52.1	18.1	181°	
	29	QURU	Co	Li	44.4	13.6	196°	
	46	ACRU	Supp	Li	25.6	18.4	195°	
	41	QURU	Co	Li	46.3	16.0	208°	
	42	QURU	Co	Li	50.5	13.9	213°	
	43	ACRU	Int	Li	25.7	18.5	234°	Top-up against
	44	ACRU	Co	Li	23.9	17.1	248°	

#	Sp	Canopy	L/D	DBH	Dist	Az	Notes
45	ACRU	Supp?	SN	25.7	17.5	266°	4m tall
46	QURU	Co	L	39.8	15.5	294°	
47	QURU	Int	L	33.5	18.7	306°	
48	ACRU	Int	L	29.4	18.2	320°	
49	QURU	Co	L	44.6	18.2	339°	
50	QURU	Co	L	49.6	17.2	349°	
LT3: 20m extension							
28	QURU	Sup	L	26.0	13.7	20°	
29	QURU	Co	L	36.1	15.8	28°	
30	QURU	Int?	SN	27.7	17.4	60°	Near stone wall
31	QURU	Dom	L	51.0	15.5	56°	
32	QURU	Co	L	48.8	18.9	83°	
33	QURU	Co	L	34.4	16.1	92°	
34	QURU	Co	L	35.1	19.2	121°	
35	ACRU	Int	L	27.7	19.8	128°	
36	ACRU	Co	L	29.6	16.0	146°	
37	QURU	Co	L	36.5	17.9	171°	
38	QURU	Co	L	36.7	17.7	174°	
39	QURU	Co	L	36.8	15.5	172°	
40	QURU	Co	L	41.9	17.2	197°	
41	QURU	Co	L	25.4	14.8	220°	
42	QURU	Int	L	32.0	14.0	227°	
43	QURU	Co	L	54.8	16.4	246°	
44	QURU	Int	L	27.7	18.4	282°	
45	ACRU	Dom	L	42.2	16.2	298°	
46	ACRU	Sup	L	22.7	15.4	310°	
47	QUVE	Co	L	31.3	20.0	316°	
48	QUVE	Int	L	24.5	13.4	321°	
49	ACRU	Sup	L	21.1	17.1	332°	
50	QURU	Co	L	46.4	19.6	360°	
51	QURU	Co	L	46.4	18.9	355°	
52	QURU	Sup	SN	20.1	15.2	5°	
53	QURU	Sup	L	25.9	16.0	358°	
54	TIAM	Int	L	23.6	17.0	354°	

Lyford - Tower Deadwood 06/19/2015 Harvard Forest, MA

LF1 -400S, -300W

#	Spp.	Decay	DBH	Distance Base	Distance Top	Azimuth Base	Azimuth Top	Con, Dom, Int, Supp Canopy	Lo, Sn, Sl Status	Notes
44	AC RU	1	25.8	3.5	6.7	322	160	C O	L O	Core Rotten
45	conn?	3	42.1	17	14.8	390	290	C O	L O	
46	–	5	37.2	9.6	–	262	–	–	S H	
47	–	5	53.7	7.9	–	264	–	–	S H	
48	AC RU	2	10.6	9.5	11.2	40	22	SUPP	L O	Rotten
49	–	5	45.2	19.1	–	57	–	–	S H	
50	–	5	33.5	14.3	–	62	–	–	S H	
51	–	5	58.5	3.9	–	97	–	–	S H	
52	QU RU	1	23.7	2.5	13.7	242	282	C O	L O	Core Rotten
53	–	4	53.9	14.4	–	282	–	–	S T	
54	–	5	42.2	10.7	–	244	–	–	S H	
55	–	5	51.7	15.9	–	244	–	–	S H	
56	QU RU	5	34	14.1	–	184	–	–	S H	
57	QU RU	3	14.6	6.1	8.2	258	172	SUPP	L O	Core rotten
58	–	5	34.3	15.6	–	147	–	–	S H	
59	–	5	23.5	18.8	–	150	–	–	S H	
60		5	34.6	16.3		126	–	–	S H	
61	BE AL	2	17.3	14.9	17.4	95	106	C O	L O	Half dead, Shag
62	–	5	42.6	15.1	–	84	–	–	S H	
63	–	5	33.3	17.6	–	100	–	–	S H	
64	–	5	52.8	4.3	–	100	–	–	S H	
65										

LF2 -200S, -100W

#	Spp.	Decay	DBH	Distance Base	Distance Top	Azimuth Base	Azimuth Top	Con, Dom, Int, Supp Canopy	Lo, Sn, Sl Status	Notes
51	–	5	16.2	1.9	–	324	–	–	S T	
52	QU RU	4	24.7	6.5	14.4	10	326	C O	L O	Core rotten
53	AC RU	3	13.5	8.8	10	330	322	C O	L O	No Core
54	QU RU	3	20	19.2	–	324	–	C O	S N	No Core Tube on 17
55	AC RU	2	13.5	10.2	9.7	34	6	SUPP	L O	No cor
56	QU RU	4	20.8	14.2	16.1	70	90	C O	L O	
57	conn	5	33.7	8.2	6	104	124	C O	L O	Top+top decayed to see
58	AC RU	4	10.2	6.3	–	310	–	SUPP	S N	
59	AC RU	1	10	11.3	16.2	316	292	SUP	L O	Core rotten
60	–	5	46.1	14.1	–	324	–	–	S H	
61	–	5	48.3	8.5	–	253	–	–	S H	
62	AC RU	3	31.3	2.0	32.1	250	225	C O	L O	N-S
63	QU RU	3	28.8	17.9	22.8	279	256	C O	S N	W/ log
64	QU RU	5	17.7	4.2	7.8	178	192	SUPP	L O	

LF1: 44
LF2: 51
LF3: 55
IP1: 76
IP2: 87

Rite in the Rain

LF2: -200S, -100W
LF3: -600S, 0W

LF2 cont. K-class

#	SPP	Decay	DBH	Distance B	Distance T	Azimuth B	Azimuth T	CANOPY	STATUS	NOTES
65	Unknown	5	20	7.5	10.9	190	220	CO	LO	
66	—	5	40.2	17	—	204	—	—	SH	
67	QU RU	3	34.9	18.5	18.2	150	184	CO	LO	
68	—	5	27.7	16.2	—	142	—	—	SH	
69	—	5	42.7	10.9	—	158	—	—	SH	
70	—	5	52.5	8.8	—	150	—	—	SH	
71	—	5	48.7	1.8	—	156	—	—	SH	
LF3	-600S, 0W									
55	QURU	3	13	1.3	9.2	350	268	SUPP	LO	
56	QURU	3	21.1	5.6	18.6	292	342	CO	LO	
57	QURU	3	22.7	10.2	—	276	—	CO	SN	
58	QURU	3	21.6	8.7	12.5	220	302	CO	LO	E-W
59	QURU	3	13.6	8.6	7.8	269	230	SUPP	LO	
60	QURU	4	13.4	10.3	15.5	254	232	SUPP	LO	
61	QURU	4	19.3	3	11.6	312	352	SUPP	LO	E-W
62	—	5	53.6	19.3	—	300	—	—	SH	
63	—	5	56.8	18.3	—	302	—	—	SH	
64	QU RU	4	17	12.2	27.3	287	302	SUPP	LO	
65	—	5	38.1	19.8	—	290	—	—	ST	
66	—	5	52.4	16.4	—	256	—	—	SH	
67	—	5	47	13.3	—	220	—	—	SH	
68	QURU	3	14.4	4.8	9.6	358	158	CO DOMM	LO	
69	QURU	3	15.2	7.5	18.1	151	92	SUPP	LO	
70	ACRU	2	12.1	6.8	8.2	96	140	SUPP	LO	
71	QURU	3	11.9	5.7	10.6	20	156	CO DOM	LO	
72	QURU	3	16.2	8.6	—	347	—	SUPP	SN	E-W
73	—	5	39.4	17.8	—	348	—	—	ST	
74	—	5	39.8	18.9	—	342	—	—	SH	
75	—	5	48.9	17.1	—	18	—	—	SH	
76	—	5	45.3	16.2	—	346	—	—	SH	
77	—	5	39.6	14.3	—	44	—	—	SH	
78	—	5	53	12.9	—	62	—	—	SH	
79	—	5	27.6	18.2	—	78	—	—	ST	
80	QURU	3	20.5	18.3	14.7	78	122	CO DOM	LO	
81	—	5	46	19.8	—	120	—	—	SH	
82	—	5	49.8	19.8	—	118	—	—	SH	

#	Species	K-C	DBH	Dist. B	Dist. I	AZ B	AZ I	CAN	ST	NOTE
83	—	5	38.3	16.6	—	160	—	—	S T	
84	—	5	56.2	13.4	—	150	—	—	S H	
85	—	5	55.2	10.2		74	—	—	S H	
86	—	5	19.7	2.3		60	—	—	S T	
TP1 ← up hill - red pvc										
76	—	5	60.7	5.8	3.9	328	12	DOM	L O	
77	—	5	44.9	12.1	—	338	—		S T	
78	—	5	26.7	12	—	340	—	—	S T	
79	—	5	39.8	16	—	2	—	—	S H	
80	—	5	26.8	15.1	—	2	—	—	S H	
81	QURU	4	21.2	19.1	17	329	353	CO DOM	L O	
~~82~~	~~ACRU~~	~~2~~	~~18.5~~	~~8.2~~	~~—~~	~~305~~		~~—~~	~~S N~~	~~#151452~~
82	—	5	29.9	3.4	—	184	—	—	S H	
83	~~COMM~~ TSCA	2	10.6	7.6	—	206	—	SUPP	S N	#151495
~~8?~~	~~QURU~~	~~3~~	~~24.6~~	~~8.3~~	~~—~~	~~206~~	~~—~~	~~CO DOM~~	~~S N~~	~~#151496~~ 5 core
84	—	5	52.3	16.3	—	208	—	—	S H	
85	—	5	20.5	15.8	22.2	230	222	CO	L O	
86	—	5	45.1	17.1	—	243	—	—	S H	
87	—	5	36.1	17.3	—	223	—	—	S H	
88	—	5	10.1	8.3	—	280	—	—	S H	
~~91~~	~~[illegible]~~	~~3~~	~~13.6~~	~~3.6~~	~~3.8~~	~~341~~	~~64~~	~~SUPP~~	~~L O~~	~~#151488~~
~~—~~	~~ACRU QURU~~	~~1~~	~~32~~	~~8.5~~		~~162~~		~~CO~~	~~S N~~	~~#161729~~ cored already
89	~~COMM~~ TSCA	4	13.8	7.1	4	124	119	SUPP	L O	#161733
90	BeLe	2	12.1	11.4	10.4	69	44	SUPP	L O	
91	QURU	3	24.5	17.1	23.1	118	100	CO DOMM	L O	
TP2 NP-HF-TP2										
87	QURU	3	11.1	0.7	7.5	167	136	SUPP	L O	
88	ACRU	3	13.2	10.3	7.8	150	70	SUPP	L O	
~~89~~	~~ACRU~~	~~2~~	~~15.5~~	~~10.9~~	~~14.8~~	~~122~~	~~110~~	~~SUPP~~	~~L O~~	~~#171784~~
90	—	5	14.7	7.6	6.6	90	56	SUPP	L O	
91	—	5	36.1	16.3	—	141	—		S H	
92	—	5	20.5	15.6	11.8	125	130		L O	
93	—	5	16.9	12.2	—	130	—		S H	
94	—	5	23.1	17	—	130	—		S H	