

PLOT	ID	QUAD	X	Y	SPECIES	H16	R16	H17	R17	NOTES
PPR1324N	2713	21	7	31	QUEDOU	NA	NA	13	0	NOT A 1ST YEAR
PPR1324E	2714	7	7	28	QUEGAR	NA	NA	19	1	NOT A 1ST YEAR
PPR1324E	2716	10	89	2	ARBME N	NA	NA	6	0	NOT A 1ST YEAR
PPR1324E	2797	10	71	59	QUEGAR	NA	NA	9	1	NOT A 1ST YEAR
PPR1324E	2715	11	80	85	QUEDOU	NA	NA	6	1	NOT A 1ST YEAR
PPR1324S	2716	34	73	88	QUEDOU	NA	NA	2	0	NOT A 1ST YEAR
PPR1324W	2786	9	25	81	QUEGAR	NA	NA	16	1	NOT A 1ST YEAR
PPR1324W	2720	28	18	90	PSEME N	NA	NA	14	0	NEW!
PPR1340N	2782	22	50	95	PSEME N	NA	NA	8	0	NEW!

PLOT	ID	QUAD	X	Y	SPECIES	H16	R16	H17	R17	NOTES
PPR1340N	5455	24	28	66	BACPIL	4	0	4	0	
PPR1340N	5463	24	26	19	PSEMEN	12	0	20	0	
PPR1340N	5456	29	90	37	QUEAGR	8	1	8	1	
PPR1340N	5450	30	18	5	QUEAGR	34	0	46	0	
PPR1340N	5457	30	98	45	UMBCAL	40	1	46	1	
PPR1340N	5458	31	50	30	PSEMEN	7	0	11	0	
PPR1340N	5448	31	28	42	UMBCAL	40	1	55	1	
PPR1340N	5461	31	30	42	QUEAGR	37	1	44	1	
PPR1340N	5451	31	38	58	QUEAGR	33	1	35	1	
PPR1340N	5447	31	38	85	QUEAGR	28	1	42	1	
PPR1340N	5433	32	85	14	PSEMEN	16	0	20	0	
PPR1340N	5449	32	56	51	QUEAGR	22	1	27	1	
PPR1340N	5432	32	28	87	QUEAGR	19	1	28	1	
PPR1340N	5437	32	71	80	QUEAGR	32	1	41	1	
PPR1340N	5434	33	91	65	QUEAGR	20	1	32	1	
PPR1340N	5431	33	84	89	UMBCAL	6	0	NA	NA	MISSING
PPR1340N	5435	33	30	7	UMBCAL	21	1	25	1	
PPR1340N	5436	33	30	10	PSEMEN	1	0	NA	NA	MISSING
PPR1340N	5430	33	22	26	UMBCAL	15	0	18	0	
PPR1340N	5443	33	90	35	PSEMEN	2	0	NA	NA	MISSING
PPR1340N	5442	34	56	78	UMBCAL	12	0	17	1	
PPR1340W	5460	5	25	15	QUEAGR	28	1	26	1	
PPR1340W	5476	6	60	45	QUEAGR	31	1	38	1	
PPR1340W	5459	6	47	65	PSEMEN	30	0	38	0	
PPR1340W	5482	6	51	70	PSEMEN	3	0	0	NA	
PPR1340W	5302	6	66	80	UMBCAL	4	0	8	1	
PPR1340W	5305	7	44	12	PSEMEN	38	0	42	0	
PPR1340W	5495	14	31	62	QUEAGR	41	1	43	1	
PPR1340W	5471	30	51	55	UMBCAL	37	1	47	1	
PPR1340W	5473	30	22	10	PSEMEN	17	0	22	0	
PPR1340W	5499	32	83	43	HETARB	9	0	10	0	
PPR1340W	5325	32	26	49	QUEAGR	11	1	12	1	
PPR1340W	5466	33	64	41	PSEMEN	5	0	9	0	
PPR1309W	2301	33	43	62	QUEDOU	NA	NA	9	0	
PPR1309S	2306	27	18	77	QUEDOU	NA	NA	11	1	2nd Year?
PPR1309S	2307	16	90	44	QUEDOU	NA	NA	10	1	
PPR1309S	2308	23	100	52	QUEDOU	NA	NA	7	1	
PPR1344W	2310	10	53	42	QUEGAR	NA	NA	21	1	
PPR1344W	2311	13	95	5	QUEDOU	NA	NA	14	1	
PPR1344W	2312	16	4	80	QUEGAR	NA	NA	13	1	
PPR1344W	2800	33	6	52	QUEDOU	NA	NA	11	1	
PPR1344N	2798	9	64	50	QUEDOU	NA	NA	8	0	

PLOT	ID	QUAD	X	Y	SPECIES	H16	R16	H17	R17	NOTES
PPR1340N	5303	5	7	39	PSEMEN	10	0	17	0	
PPR1340N	5464	5	107	76	QUEAGR	21	1	24	1	
PPR1340N	5472	5	62	2	PSEMEN	9	0	17	0	
PPR1340N	5480	6	15	26	ARBMEN	2	0	NA	NA	MISSING
PPR1340N	5465	6	49	6	ARBMEN	4	0	5	0	
PPR1340N	5301	6	53	23	ARBMEN	3	0	NA	NA	DEAD
PPR1340N	5490	6	68	30	ARBMEN	2	0	17	0	
PPR1340N	5488	6	70	12	PSEMEN	38	0	47	0	
PPR1340N	5306	6	28	42	ARBMEN	2	0	4	0	
PPR1340N	5316	6	60	81	ARBMEN	2	0	NA	NA	MISSING - How you did
PPR1340N	5497	7	30	43	ARBMEN	4	0	NA	NA	MISSING
PPR1340N	5468	7	40	88	ARBMEN	3	0	NA	NA	DEAD
PPR1340N	5320	7	83	91	PSEMEN	8	0	15	1	
PPR1340N	5483	7	88	85	PSEMEN	40	0	50	1	
PPR1340N	5477	7	90	51	PSEMEN	5	0	10	1	
PPR1340N	5498	7	99	33	QUEAGR	16	1	18	1	
PPR1340N	5346	7	99	29	PSEMEN	39	0	44	0	
PPR1340N	5474	7	88	7	ARBMEN	2	0	NA	NA	DEAD
PPR1340N	5478	7	95	4	ARBMEN	2	0	3	0	
PPR1340N	5314	8	99	18	PSEMEN	7	0	14	0	
PPR1340N	5324	8	97	75	ARBMEN	3	0	NA	NA	MISSING
PPR1340N	5307	9	85	77	PSEMEN	10	0	22	0	
PPR1340N	5344	10	96	89	PSEMEN	9	0	16	0	
PPR1340N	5342	10	99	48	PSEMEN	7	0	11	0	
PPR1340N	5319	10	92	40	PSEMEN	14	0	21	0	
PPR1340N	5343	10	42	45	ARBMEN	13	1	13	1	
PPR1340N	5491	11	75	10	ARBMEN	2	0	6	0	
PPR1340N	5493	11	73	35	ARBMEN	6	0	NA	NA	MISSING
PPR1340N	5485	11	72	85	ARBMEN	1	0	NA	NA	MISSING
PPR1340N	5481	15	6	56	UMBCAL	8	1	11	1	
PPR1340N	5470	17	10	30	UMBCAL	10	0	11	0	
PPR1340N	5487	17	26	63	PSEMEN	4	0	NA	NA	DEAD
PPR1340N	5486	17	17	71	PSEMEN	7	0	11	0	
PPR1340N	5317	18	29	57	PSEMEN	17	0	17	0	
PPR1340N	5332	18	8	62	UMBCAL	9	0	11	0	
PPR1340N	5469	20	14	95	PSEMEN	20	0	32	0	
PPR1340N	5496	20	61	25	PSEMEN	13	0	16	0	
PPR1340N	5467	21	79	99	PSEMEN	30	0	34	0	
PPR1340N	5400	21	7	84	ARBMEN	4	0	8	0	
PPR1340N	5454	22	80	79	PSEMEN	9	0	16	0	
PPR1340N	5462	22	35	18	UMBCAL	7	0	13	0	
PPR1340N	5453	22	6	78	PSEMEN	35	0	49	0	

PLOT	ID	QUAD	X	Y	SPECIES	H16	R16	H17	R17	NOTES
PPR1324S	5378	17	84	29	QUEDOU	5	1	8	1	
PPR1324S	5394	21	96	92	QUEDOU	4	1	8	1	
PPR1324S	5393	24	45	28	UMBICAL	20	0	30	0	
PPR1324S	5390	24	40	56	UMBICAL	8	0	NA	NA	DEAD
PPR1324S	5380	26	40	70	UMBICAL	43	1	65	1	
PPR1324S	5384	30	9	40	UMBICAL	7	1	10	0	
PPR1324W	5254	5	58	83	QUEGAR	13	1	21	1	
PPR1324W	5232	6	70	50	QUEGAR	13	1	14	1	
PPR1324W	5264	7	0	42	QUEGAR	11	0	13	1	
PPR1324W	5231	7	48	53	QUEGAR	9	1	16	1	
PPR1324W	5255	7	68	61	QUEGAR	9	1	17	1	
PPR1324W	5233	7	48	98	QUEGAR	9	1	16	1	
PPR1324W	5267	8	2	9	QUEGAR	10	1	17	1	
PPR1324W	5253	11	63	25	QUEGAR	9	1	11	1	
PPR1324W	5366	11	31	80	QUEGAR	6	1	7	1	
PPR1324W	5265	12	0	17	QUEGAR	8	1	14	1	
PPR1324W	5254	12	0	52	QUEGAR	11	1	16	1	
PPR1324W	5234	12	2	17	QUEGAR	7	1	10	1	
PPR1324W	5263	12	5	19	QUEGAR	8	1	11	1	
PPR1324W	5229	13	55	7	QUEGAR	10	1	16	1	
PPR1324W	5272	13	18	80	QUEGAR	10	1	16	1	
PPR1324W	5261	13	22	80	QUEGAR	13	1	10	1	
PPR1324W	5249	13	79	96	QUEGAR	11	1	16	1	
PPR1324W	5248	13	70	84	QUEGAR	8	1	10	1	
PPR1324W	5243	13	71	72	QUEGAR	7	1	7	1	
PPR1324W	5252	14	87	96	QUEGAR	6	1	11	0	
PPR1324W	5245	14	5	61	QUEGAR	8	1	12	1	
PPR1324W	5246	15	15	35	QUEGAR	13	1	13	1	
PPR1324W	<del>5247</del>	15	57	47	QUEGAR	8	1	13	1	
PPR1324W	5244	16	18	22	QUEGAR	15	1	13	1	Δ to 5257
PPR1324W	5256	16	40	27	QUEGAR	11	1	14	1	
PPR1324W	5268	16	0	71	QUEGAR	7	1	12	1	
PPR1324W	5270	17	52	45	QUEGAR	12	1	7	1	
PPR1324W	5269	17	58	49	QUEDOU	7	1	NA	NA	DEAD (no vs)
PPR1324W	5259	21	15	83	QUEDOU	4	0	2	1	
PPR1324W	5260	21	43	17	QUEGAR	9	1	16	1	
PPR1324W	5238	21	65	46	QUEDOU	6	1	NA	NA	DEAD
PPR1324W	5250	21	90	89	QUEDOU	12	1	15	1	
PPR1324W	5251	22	39	56	QUEDOU	4	0	10	0	
PPR1324W	5247	22	37	84	QUEDOU	8	1	4	1	
PPR1324W	5258	22	79	83	QUEDOU	7	0	5	1	
PPR1324W	5277	22	0	98	QUEGAR	7	1	16	1	

PLOT	ID	QUAD	X	Y	SPECIES	H16	R16	H17	R17	NOTES
PPR1324E	5176	8	68	55	QUEGAR	3	1	9	1	
PPR1324E	5179	8	60	68	QUEDOU	1	1	10	1	
PPR1324E	5189	8	38	10	QUEDOU	8	1	10	1	
PPR1324E	5198	8	31	36	QUEDOU	5	1	9	1	
PPR1324E	5191	8	18	85	QUEKEL	7	1	10	1	A to QUEGAR
PPR1324E	5192	9	97	4	QUEKEL	4	1	10	1	A to QUEGAR
PPR1324E	5194	9	71	21	QUEDOU	8	1	9	1	
PPR1324E	5197	9	61	74	QUEDOU	3	1	8	1	
PPR1324E	5177	9	22	46	QUEDOU	9	1	13	1	
PPR1324E	5185	10	93	95	QUEDOU	5	1	13	1	
PPR1324E	5186	10	90	95	QUEKEL	4	1	12	1	A to QUEGAR
PPR1324E	5184	10	82	94	QUEKEL	4	1	9	0	A to QUEDOU
PPR1324E	5188	10	46	64	QUEKEL	7	1	9	1	A to QUEDOU
PPR1324E	5193	11	98	35	QUEDOU	6	1	13	1	
PPR1324E	5183	11	20	50	QUEDOU	3	1	14	1	
PPR1324E	5200	12	89	30	QUEDOU	3	1	3	1	
PPR1324E	5187	12	15	92	QUEDOU	6	1	9	1	
PPR1324E	5178	13	71	30	QUEGAR	9	1	10	1	
PPR1324E	5195	13	86	88	QUEDOU	7	1	NA	NA	DEAD
PPR1324E	5180	13	5	38	QUEGAR	3	1	7	1	X=38 Y=5
PPR1324E	5196	13	15	58	QUEDOU	8	1	13	1	A to QUEGAR
PPR1324E	5199	13	9	1	QUEDOU	6	1	7	0	
PPR1324N	5279	10	65	86	QUEDOU	8	1	12	1	
PPR1324N	5262	10	99	51	QUEDOU	9	1	NA	NA	DEAD
PPR1324N	5281	18	11	1	QUEDOU	4	0	6	1	
PPR1324N	5276	18	63	25	QUEDOU	4	1	8	1	
PPR1324N	5273	18	70	90	QUEDOU	7	1	6	1	
PPR1324N	5274	18	58	16	ARBMEN	1	0	NA	NA	MISSING
PPR1324N	5278	14	62	20	ARBMEN	1	0	NA	NA	DEAD
PPR1324N	5280	19	99	10	HETARB	9	1	16	1	
PPR1324N	5275	19	47	54	QUEDOU	3	0	7	0	
PPR1324N	5235	24	65	89	QUEDOU	8	1	8	1	
PPR1324S	5395	6	20	58	QUEDOU	6	1	NA	NA	DEAD
PPR1324S	5397	8	17	32	QUEKEL	8	1	10	1	
PPR1324S	5392	9	39	10	ARBMEN	5	0	3	0	
PPR1324S	5399	11	68	75	UMBCAL	33	1	38	1	
PPR1324S	5387	12	65	45	QUEDOU	8	1	12	1	A to QUEKEL
PPR1324S	5182	12	12	80	QUEDOU	8	1	12	1	
PPR1324S	5388	12	61	90	QUEAGR	7	1	13	1	A tag to 5398
PPR1324S	5377	13	97	53	UMBCAL	9	1	7	1	
PPR1324S	5381	14	10	12	QUEKEL	14	1	20	1	
PPR1324S	5376	15	64	72	QUEAGR	12	1	17	1	

PLOT	ID	QUAD	X	Y	SPECIES	H16	R16	H17	R17	NOTES
PPR1322W	5212	28	57	81	QUEAGR	12	0	10	1	
PPR1322W	5213	28	87	75	QUEAGR	10	0	NA	NA	MISSING
PPR1322W	5214	29	50	90	QUEDOU	28	1	50	1	
PPR1322W	5215	30	36	92	QUEAGR	10	0	19	1	
PPR1322W	5216	31	97	93	QUEAGR	8	1	10	1	Δx to 42
PPR1322W	5217	31	72	75	QUEAGR	10	0	17	1	
PPR1322W	5219	32	25	2	QUEAGR	11	1	10	1	
PPR1322W	5218	30	82	73	QUEAGR	26	1	24	1	
PPR1322W	5220	32	58	10	QUEAGR	10	0	17	1	
PPR1322W	5221	32	90	20	QUEAGR	8	0	NA	NA	MISSING
PPR1322W	5222	33	10	45	QUEAGR	11	0	17	0	
PPR1322W	5223	33	85	90	QUEAGR	6	1	12	1	
PPR1322W	5224	34	27	0	QUEAGR	11	1	11	1	
PPR1322W	5225	34	15	58	QUEAGR	4	1	15	1	
PPR1324E	5174	5	99	18	QUEGAR	6	0	10	1	
PPR1324E	5236	5	73	2	QUEGAR	6	1	14	1	
PPR1324E	5286	5	69	25	QUEDOU	5	1	15	1	
PPR1324E	5284	5	68	48	QUEKEL	6	1	10	1	
PPR1324E	5285	5	72	90	QUEGAR	7	1	15	1	
PPR1324E	5287	5	8	12	QUEDOU	3	1	11	1	
PPR1324E	5271	5	31	11	QUEDOU	8	1	14	1	
PPR1324E	5288	5	9	48	QUEGAR	3	1	11	1	
PPR1324E	5282	5	13	73	ARBMEN	1	0	2	0	
PPR1324E	5293	5	8	92	QUEDOU	5	1	8	1	
PPR1324E	5283	5	33	95	QUEGAR	7	1	11	1	
PPR1324E	5172	5	90	2	QUEDOU	4	1	NA	NA	ALL MISSING
PPR1324E	5171	6	66	2	QUEDOU	7	1	14	1	
PPR1324E	5299	6	79	43	QUEDOU	10	1	13	1	
PPR1324E	5296	6	81	55	QUEDOU	2	1	4	0	
PPR1324E	<del>5275</del>	6	60	83	QUEDOU	8	1	10	1	Δ tag to 5175
PPR1324E	5289	6	53	20	QUEDOU	7	1	11	1	
PPR1324E	5291	6	36	30	ARBMEN	10	1	12	1	
PPR1324E	5292	6	30	47	QUEDOU	5	1	NA	NA	MISSING
PPR1324E	5173	6	30	65	QUEDOU	3	1	5	1	
PPR1324E	5295	7	40	15	QUEDOU	4	1	NA	NA	DEAD
PPR1324E	5290	7	51	14	QUEKEL	15	1	20	1	
PPR1324E	5300	7	58	30	QUEKEL	3	1	10	1	
PPR1324E	5297	7	23	95	QUEDOU	2	1	8	1	
PPR1324E	5190	8	24	63	PSEMEN	33	0	53	0	
PPR1324E	5298	8	97	32	QUEDOU	4	1	8	1	
PPR1324E	5294	8	91	65	QUEKEL	4	1	13	1	
PPR1324E	5181	8	93	68	QUEDOU	6	1	9	1	

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PLOT	ID	QUAD	X	Y	SPECIES	H16	R16	H17	R17	NOTES
PPR1309N	5310	28	93	60	QUEDOU	8	1	11	1	
PPR1309N	5336	28	80	67	QUEDOU	6	1	NA	NA	DEAD
PPR1309N	5335	28	99	78	QUEDOU	8	1	6	1	
PPR1309N	5329	29	26	27	QUEDOU	3	0	8	0	
PPR1309N	5328	29	34	65	QUEDOU	4	1	9	1	
PPR1309N	5337	29	72	65	QUEDOU	7	1	12	1	
PPR1309N	5304	29	54	88	QUEDOU	6	1	10	1	
PPR1309N	5333	30	12	7	QUEDOU	7	1	10	1	
PPR1309N	5312	30	41	32	QUEDOU	7	1	NA	NA	DEAD
PPR1309N	5338	30	81	15	QUEDOU	8	1	15	1	
PPR1309N	5375	30	70	35	QUEKEL	10	1	19	1	A to QUEDOU
PPR1309N	5322	30	56	74	QUEKEL	8	1	13	1	
PPR1309N	5326	30	72	77	QUEDOU	9	1	13	1	
PPR1309N	5340	30	81	85	QUEDOU	8	1	NA	NA	DEAD
PPR1309N	5308	30	90	90	QUEDOU	6	0	14	1	
PPR1309N	5331	31	30	22	QUEDOU	15	1	21	1	
PPR1309N	5323	33	39	38	QUEDOU	7	1	16	1	
PPR1309N	5321	34	9	38	QUEDOU	10	1	13	1	
PPR1309S	5327	19	99	58	HETARB	26	1	29	1	
PPR1309S	5334	24	89	57	QUEDOU	8	1	11	1	
PPR1309S	5484	<del>24</del>	83	47	ARB MEN	28	1	44	1	QUAD = 27
PPR1309W	5353	5	86	9	QUEDOU	7	1	11	1	
PPR1309N	5364	7	95	78	QUEGAR	11	1	NA	NA	ALL MISSING
PPR1322N	5227	7	50	15	QUEDOU	13	0	NA	NA	DEAD
PPR1322N	5228	7	91	34	QUEDOU	10	1	10	1	
PPR1322N	<del>5229</del>	7	68	37	QUEDOU	10	1	1	1	Tag = 5226
PPR1322S	5237	20	42	21	QUEKEL	10	1	10	1	A to QUEDOU
PPR1322S	5241	23	63	81	ARB MEN	5	0	9	0	
PPR1322S	5230	24	5	56	QUEAGR	8	0	NA	NA	MISSING
PPR1322S	5239	25	0	79	QUEKEL	8	1	15	1	
PPR1322S	5240	26	67	55	QUEGAR	8	1	11	1	
PPR1322W	5201	5	2	70	QUEAGR	6	0	9	0	
PPR1322W	5202	5	6	75	QUEAGR	5	0	NA	NA	MISSING
PPR1322W	5203	5	12	63	QUEAGR	6	0	NA	NA	MISSING
PPR1322W	5204	5	10	65	QUEAGR	8	0	15	1	
PPR1322W	5205	5	9	67	QUEAGR	8	0	NA	NA	DEAD
PPR1322W	5206	9	36	12	QUEAGR	33	1	49	1	
PPR1322W	5207	11	48	40	QUEKEL	11	0	14	1	A to QUEGAR
PPR1322W	5208	11	62	75	QUEDOU	17	1	18	1	
PPR1322W	5209	25	90	20	QUEKEL	3	0	NA	NA	MISSING
PPR1322W	5210	26	90	80	QUEAGR	5	0	NA	NA	DEAD
PPR1322W	5211	28	4	92	QUEDOU	30	1	32	1	



NOTES	R17	H17	R16	H16	SPECIES	Y	X	QUAD	ID	PLOT
$X=5, Y=25$	0	18	1	12	QUEKEL	5	77	25	5489	PPR1309E
$\Delta$ to QUEKEL	1	16	1	8	QUEKEL	12	81	28	5500	PPR1309E
$\Delta$ to QUEKEL	1	6	1	6	QUEKEL	54	84	32	5492	PPR1309E
$\Delta$ to QUEKEL	1	13	1	8	QUEKEL	30	76	5	5358	PPR1309N
DEAD	NA	NA	1	8	QUEKEL	82	42	6	5385	PPR1309N
	0	13	1	9	QUEAGR	10	95	11	5389	PPR1309N
	1	12	1	7	QUEKEL	50	28	13	5349	PPR1309N
	1	17	1	7	UMBCAL	89	12	14	5362	PPR1309N
$\Delta$ to 5383	0	13	0	10	QUEKEL	99	5	14	5368	PPR1309N
	1	13	1	13	QUEKEL	47	21	16	5351	PPR1309N
	1	11	1	7	QUEKEL	72	18	17	5367	PPR1309N
	0	13	0	8	QUEKEL	68	30	17	5374	PPR1309N
MISSING	NA	NA	1	11	QUEKEL	88	32	17	5382	PPR1309N
	1	22	1	14	QUEKEL	92	38	17	5354	PPR1309N
$\Delta$ to QUEGAR	1	17	1	9	QUEKEL	85	87	17	5359	PPR1309N
	1	14	1	10	QUEKEL	31	26	18	5379	PPR1309N
DEAD	NA	NA	0	10	QUEKEL	63	55	19	5357	PPR1309N
	1	15	1	12	QUEKEL	54	8	19	5350	PPR1309N
	1	11	1	10	QUEKEL	5	15	20	5391	PPR1309N
	1	11	1	6	QUEKEL	33	23	21	5369	PPR1309N
DEAD	NA	NA	1	16	QUEKEL	52	23	21	5361	PPR1309N
	1	17	1	7	QUEKEL	65	91	22	5365	PPR1309N
MISSING	1	20	1	19	QUEKEL	53	70	23	5386	PPR1309N
	NA	NA	1	6	QUEKEL	89	86	24	5372	PPR1309N
ALL MISSING	NA	NA	1	15	QUEKEL	27	40	24	5355	PPR1309N
	1	9	0	3	QUEKEL	48	26	24	5373	PPR1309N
	0	17	1	7	QUEKEL	53	77	24	5396	PPR1309N
	0	13	1	9	QUEKEL	62	55	24	5348	PPR1309N
	0	7	0	9	QUEKEL	48	36	25	5356	PPR1309N
	0	11	1	7	QUEKEL	95	46	25	5347	PPR1309N
	1	11	1	22	QUEKEL	5	22	26	5371	PPR1309N
DEAD	NA	NA	0	8	QUEKEL	51	29	26	5370	PPR1309N
	1	13	1	5	QUEKEL	88	26	26	5368	PPR1309N
	1	10	1	22	QUEKEL	100	68	26	5363	PPR1309N
	0	9	0	5	QUEKEL	77	63	26	5360	PPR1309N
	1	10	1	6	QUEKEL	33	58	27	5366	PPR1309N
MISSING	NA	NA	0	8	QUEKEL	40	33	27	5352	PPR1309N
	1	10	1	7	QUEKEL	57	58	28	5313	PPR1309N
	1	12	1	7	QUEKEL	20	72	28	5345	PPR1309N
	1	13	1	4	QUEKEL	47	100	28	5339	PPR1309N
	1	9	0	5	QUEKEL	47	93	28	5341	PPR1309N
DEAD	NA	NA	0	5	QUEKEL	60	100	28	5311	PPR1309N

$\Delta$  to QUEKEL



DATE 20170607

NOTES

CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
1	8441	0	2	11	
6	8441	0	3	7	
7	8441	0	3	4	
8	8441	0	3	9	
9	8441	0	3	4	
10	8441	0	3	5	
11	8441	0	3	3	
12	8441	0	3	2	
13	8441	0	3	4	
14	0	0	3	0	
15		0	3	0	
16		0	3	0	
17		0	3	0	
18		0	3	0	
19		0	3	0	
20		0	3	0	
21		0	3	0	
22		0	3	0	
23		0	3	0	
24		0	3	0	
25		0	3	0	
26		0	3	0	
27		0	3	0	
28		0	3	0	
29		0	3	0	
30					
31					
32					
33					
34					

1340W  
 PLOT 1000 NORTHING 36.596 EASTING 122.421 DATE 2

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS
5	1	9746	0	1	1
6	1	9746	0	1	1
7	1	9746	0	1	1
8	1	9746	0	1	0
9	1	9746	0	1	0
10	1	9746	0	1	0
11	0	—	0	1	0
12	0	—	0	1	0
13	0	—	0	1	0
14	0	—	0	1	0
15	0	—	0	1	0
16	0	—	0	1	0
17	0	—	0	2	0
18	0	—	0	3	0
19	0	—	1	2	0
20	0	—	0	3	0
21	0	—	0	3	0
22	0	—	0	3	0
23	0	—	0	2	0
24	1	9722	0	3	0
25	1	—	0	2	0
26	1	—	1	2	0
27	1	—	0	2	0
28	1	—	1	2	1
29	1	—	1	1	0
30	1	—	0	1	2
31	1	—	0	1	6
32	1	—	0	1	2
33	1	—	0	1	1
34	1	—	1	1	0

PLOT 1000  
 QUAD 5

PLOT # 22 NORTHING 38.57452 EASTING 122.7186 DATE 20170607

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	8795	0	3	0	
6	1	1	1	3	0	
7	1	1	1	3	0	
8	1	1	1	3	0	
9	0	1	1	3	0	
10			1	2	0	
11			1	3	0	
12			1	3	0	
13			1	3	0	
14			1	3	0	
15			0	3	0	
16			0	3	0	
17			1	3	0	
18			1	2	0	
19			1	3	0	
20			1	3	0	
21			1	3	0	
22			1	3	0	
23			1	3	0	
24			1	3	0	
25			1	2	0	
26			2	2	0	
27			1	3	0	
28			1	3	0	
29			1	3	0	
30			2	2	0	
31			2	2	0	
32			1	3	0	
33			2	1	0	
34			1	3	0	

24-05-10

PLOT PP21322E			NORTHING NA		EASTING NA		DATE 20170607
QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES	
5	0	-	1	3	0		
6			0	3	0		
7			1	3	0		
8			2	2	0		
9			1	3	0		
10			1	3	0		
11			0	3	0		
12			1	3	0		
13			0	3	0		
14			1	3	0		
15			1	3	0		
16			1	3	0		
17			1	2	0		
18			1	3	0		
19			0	3	0		
20			0	3	0		
21			1	3	0		
22			1	3	0		
23			0	3	0		
24			0	3	0		
25			0	3	0		
26			0	3	0		
27			0	3	0		
28			0	3	0		
29			0	3	0		
30			0	3	0		
31			0	3	0		
32			0	3	0		
33			0	3	0		
34			0	3	0		

PLOT # 191309N  
 38.60874 NORTHING  
 122.13372 EASTING  
 DATE 20170606  
 NOTES

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	12279	0	2	1	
6	1	12288	0	2	0	
7	1	12288	0	2	0	
8	1	12288	0	2	0	trunk
9	1	12289	0	2	0	
10	1	12289	0	3	0	
11	1	12289	0	3	1	
12	1	12289	0	3	0	
13	1	12289	0	3	1	
14	1	12289	0	3	2	
15	1	12290	0	3	0	
16	0	-	0	3	1	
17	0	-	1	3	4	
18	0	-	1	3	1	
19	0	-	1	3	1	
20	0	-	0	3	1	
21	0	-	0	3	1	
22	0	-	0	3	1	
23	1	12296	0	3	1	
24	1	12296	0	3	4	
25	1	12296	0	3	2	
26	1	12296	0	3	4	
27	1	12296	0	3	2	
28	1	12295	0	3	5	
29	1	12295	0	3	4	
30	1	12295	0	3	6	
31	1	12294	0	3	1	
32	1	12294	0	3	0	trunk
33	1	12294	0	3	1	
34	1	12294	0	3	1	

PLOT PPR3095 NORTHING 38.60804 EASTING 132.73772 DATE 20170606

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	1246	0	1	0	
6	1	1246	0	1	0	
7	0	-	0	3	0	
8	0	-	0	3	0	
9	0	-	0	2	0	
10	1	1246	0	3	0	
11	1	1246	0	3	0	
12	1	1246	0	3	0	
13	1	7272	0	3	0	
14	1	7272	0	3	0	
15	1	7272	0	3	0	
16	1	7272	0	3	1	
17	0	-	0	3	0	
18	1	7271	0	3	0	
19	1	7265	0	3	0	
20	1	7265	0	3	0	
21	1	7265	0	3	0	
22	1	7265	0	3	0	
23	1	7265	0	2	1	
24	1	7265	0	2	1	
25	1	7265	0	1	0	
26	1	7265	0	2	0	
27	1	7265	0	2	1	
28	1	7265	0	2	0	
29	1	7265	0	1	0	
30	1	7265	0	2	0	
31	1	7265	0	2	0	
32	1	7265	0	1	0	
33	1	7265	0	1	0	
34	1	7265	0	1	0	



PLOT PPR1324W NORTHING 38.59601 EASTING 22.72733 DATE 20170607

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	8036	0	2	0	
6	1	8037	1	2	0	
7	1	8037	1	1	0	
8	1	8063	1	1	0	
9	1		0	1	2	
10	1		1	1	1	
11	1		0	2	0	
12	1		0	1	0	
13	1		0	3	0	
14	1	8062	0	2	0	trunk
15	1	8062	0	3	0	trunk
16	1	8062	0	1	0	trunk
17	1	8061	0	2	0	
18	1	8061	0	1	3	
19	1	8061	1	1	2	
20	1	8061	0	2	0	trunk
21	1	8060	0	3	0	
22	1	8060	0	3	0	trunk
23	1	8060	0	2	0	
24	1	8060	0	3	1	
25	1	8060	0	3	0	
26	1	8060	0	2	0	
27	1	8060	0	3	0	
28	1	8060	0	2	0	
29	1	8060	0	3	0	
30	0	-	0	3	0	
31	0	-	0	3	0	
32	0	-	0	3	0	
33	0	-	0	2	0	
34	0	-	0	2		

PLOT PRELIMINARY NORTHING 38.595 EASTING 122.72646 DATE 20170607

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	8467	0	1	0	
6	1	8467	0	1	0	
7	1		0	1	0	
8	1		1	1	1	
9	1		0	1	1	
10	1		0	1	0	
11	1		0	1	1	
12	1	T	0	1	3	
13	0	NA	1	1	1	
14	0	NA	0	1	1	fallen trunk
15	1	8456	1	1	1	
16	1	8456	1	2	0	
17	1	8456	1	1	1	
18	1	8456	1	1	0	
19	1	8456	0	1	0	
20	1	8444	1	1	0	
21	1	8444	0	1	1	
22	1		1	1	0	
23	1		0	1	0	
24	1		0	1	1	
25	1		0	1	0	
26	1		0	1	1	
27	1	8445	0	1	0	
28	1		0	1	0	
29	1		0	1	0	
30	1	8448	0	1	1	
31	1		0	1	0	
32	1		0	1	0	trunk
33	1		0	1	0	
34	1		0	1	1	

PLOT PR1322W NORTHING 38.5743 EASTING 122.71258 DATE 20170607

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	8790	0	3	2	
6	1	8790	0	3	0	
7	1	8790	0	3	0	
8	1	8790	1	3	0	
9	1	8790	0	3	2	
10	1	8790	1	3	0	
11	1	8787	1	3	0	
12	0		0	3	0	
13			1	3	0	
14			1	3	0	
15			1	3	0	
16			0	3	0	
17			1	3	0	
18			1	3	0	
19			1	3	0	
20			1	3	0	
21			1	3	0	
22			1	3	0	
23			2	2	0	
24			1	3	0	
25			1	3	0	
26			2	2	0	
27			1	3	0	
28	1	8907	1	3	2	
29			0	3	2	
30			0	3	2	
31			1	1	2	
32			1	1	2	
33			1	1	2	
34			0	1	2	

PLOT PP213225 NORTHING 38.57347 EASTING 122.71177 DATE 20170607

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	8888	0	3	0	
6	1	8888	1	3	0	
7	1	8888	1	3	0	
8	1	8888	0	3	0	
9	1	8888	0	3	0	
10	NA					
11	NA					
12	NA					
13	NA					
14	1	8887	1	3	0	
15	1	8882	0	3	0	
16	1	8882	0	3	0	trunk
17	1	8882	1	3	0	
18	1	8881	1	2	0	
19	1	8881	1	2	0	
20	1	8881	1	2	1	
21	1	8881	0	3	0	
22	1	8881	0	3	0	
23	1	8881	1	3	1	
24	1	8881	0	2	1	
25	1	8881	0	3	1	
26	1	8881	1	2	1	
27	1	8881	0	2	0	
28	0	-	0	3	0	
29	0	-	0	3	0	
30	0	-	0	3	0	
31	1	8877	0	3	0	
32	1	8877	0	2	0	
33	1	8877	1	3	0	
34	1	8877	1	2	0	

ROAD



Plot 25

NORTHING 455185 EASTING 1001519 DATE 20170607

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	8470	1	3	1	
6	0	-	2	2	1	
7	0	-	1	2	4	
8	0	-	1	2	1	
9	0	-	2	2	0	
10	0	-	1	2	0	
11	0	-	0	3	2	
12	0	-	1	3	5	
13	0	-	1	2	7	
14	0	-	1	2		
15	0	-	1	2	2	
16	1	8028	2	1	4	
17	1	8028	2	1	1	
18	1	8490	2	2	0	
19	1	8490	1	2	0	
20	1	8490	1	2	0	
21	1	8490	1	2	3	
22	1	8490	2	2	4	
23	1	8490	1	2	0	
24	1	8490	1	2	0	
25	1	NA	1	2	0	
26	1	NA	1	2	0	Buckeye
27	1	8491	0	3	0	Buckeye
28	1	8491	1	2	0	
29	1	NA	1	2	0	Buckeye
30	1	NA	0	3	0	Buckeye
31	1	NA	0	3	0	Buckeye
32	1	NA	1	3	1	
33	1	8009	0	3	0	
34	1	8009	1	3	0	

PLOT # 13-40 N NORTHING 38.5 7206 EASTING 122.68752 DATE 2017-06-09

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	9679	1	1	2	
6	1	9679	1	1	4	
7	1	9679	1	1	6	
8	1	9679	1	1	1	bank
9	1	9679	0	1	1	
10	1	9679	0	1	4	
11	0	-	0	1	1	
12	0	-	0	1	0	
13	0	-	0	1	0	
14	1	9680	0	1	0	
15	1	9680	0	1	1	
16	1	9680	0	1	0	
17	1	9680	0	1	2	
18	1	9680	0	2	2	
19	1	9680	0	2	0	
20	1	QUEAGER	0	2	0	untagged canopy tree
21	1		0	2	0	
22	1		0	2	4	
23	1		0	3	0	
24	1		0	2	0	
25	0	-	0	2	0	
26	0	-	1	1	0	
27	1	ARC MEN	0	1	0	untagged canopy tree
28	1		0	1	0	
29	1		0	1	1	
30	1		0	1	5	
31	1		0	1	4	
32	1		0	1	3	
33	1		0	1	3	
34	1	PS MEN	0	1	1	



Established seedling transects around superplots: 1309, 1322, 1324, 1340 from 5/17/2016  
- 5/20/2016

For plot 1309, 1322, 1324, all 4 transects were established. For 1340, only W and N transects were established.

### General Methods:

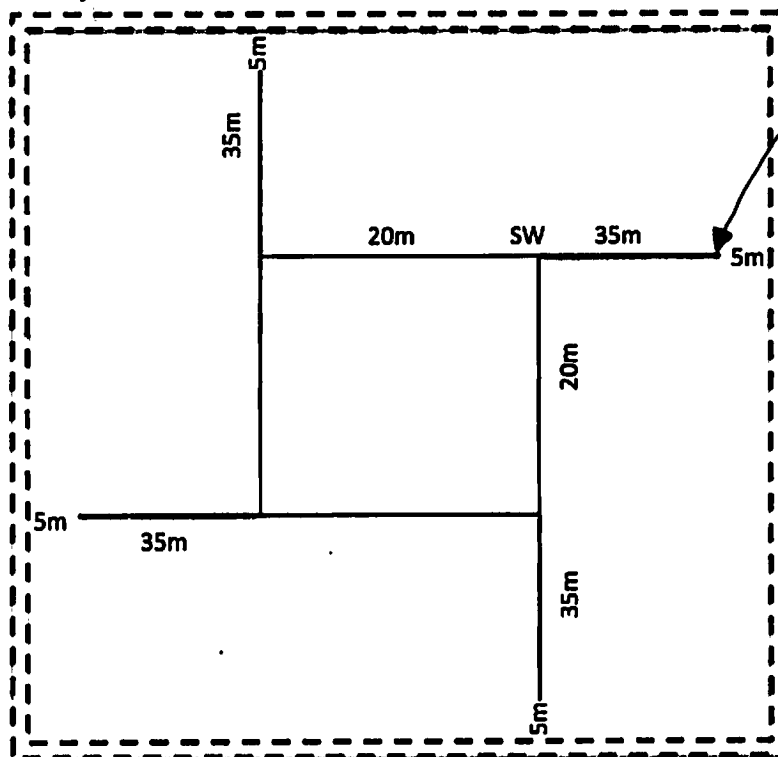
From each corner of the plot run a transect tape out 35 meters in the direction W, N, E, S (starting at the origin and moving clockwise). Place flag at end of transect and GPS point.

The survey transect is 30 m long, and 1 meter wide.

- 1m x 1m quadrat is placed on the right side of the transect tape (when facing away from the plot) every 1 m starting at the 5m and ending at the 34 meter mark.

For each Quad, record: if under tree canopy (Y/N), ID number of canopy tree if Y, Rock Cover (0 = no cover, 1 = 1-33% cover, 2 = 34-66% cover, 3 = 67-100% cover), Herbaceous Cover (0 = no cover, 1 = 1-33% cover, 2 = 34-66% cover, 3 = 67-100% cover; includes TOXDIV), and number of tagged recruits

For each recruit, place a metal pin with an attached tag nearby and record: unique tag number, the Quad in which it is located, X coordinate within the quad (cm), Y coordinate within the quad (cm), recruit species (6-letter code), height of recruit (to green growth, nearest cm).



put rebar in corners of transect

ALL MISSING =

no tag  
no seedling

DEAD =

tag  
bare branch

MISSING

tag  
no seedling

PLOT PPR13C7N NORTHING 38.60876 EASTING 122.73772 DATE 20170606

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	7279	0	2	1	
6	1	7288	0	2	0	
7	1	7288	0	2	0	trunk
8	1	7288	0	2	0	
9	1	7289	0	2	0	
10	1	7289	0	3	0	
11	1	7289	0	3	1	
12	1	7289	0	3	0	
13	1	7289	0	3	1	
14	1	7289	0	3	2	
15	1	7290	0	2	0	
16	0	-	0	3	1	
17	0	-	1	3	4	
18	0	-	1	3	1	
19	0	-	1	3	1	
20	0	-	0	3	1	
21	0	-	0	3	1	
22	0	-	0	3	1	
23	1	7496	0	3	1	
24	1	7496	0	3	4	
25	1	7496	0	3	2	
26	1	7496	0	3	4	
27	1	7496	0	3	2	
28	1	7495	0	3	5	
29	1	7495	0	3	4	
30	1	7495	0	3	6	
31	1	7494	0	2	1	
32	1	7494	0	3	0	trunk
33	1	7494	0	3	1	
34	1	7494	0	3	1	

PLOT PPR1309E NORTHING 38,60835 EASTING 122,13722 DATE 20170606

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	7297	0	2	0	
6	1		0	3	0	
7	1		0	2	0	
8	1		0	2	0	
9	1		0	2	0	
10	1		0	2	0	
11	1	7298	0	3	0	
12	1	7298	0	3	0	
13	1	7298	0	3	0	
14	0	-	0	3	0	
15	0	-	0	3	0	
16	0	-	0	3	0	
17	0	-	0	3	0	
18	0	-	0	3	0	
19	1	7603	0	3	0	
20	1	7603	0	3	0	
21	1	7603	0	3	0	
22	1	7603	0	3	0	
23	1	7603	0	3	0	
24	1	7602	0	3	0	
25	1	7602	0	3	1	
26	1	7602	0	2	0	
27	1	7602	0	3	0	
28	1	7602	0	3	1	
29	1	7509	0	3	0	
30	1	7509	0	2	0	
31	1	7509	0	2	0	
32	1	7509	0	3	1	
33	1	7509	0	3	0	
34	1	7509	0	3	0	

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	7469	0	3	1	
6	1	7469	0	3	0	
7	1	7469	0	3	0	
8	1	7469	0	3	0	
9	1	7469	0	3	0	
10	1	7469	0	3	0	
11	0	-	0	3	0	
12	0	-	0	3	0	
13	0	-	0	3	0	
14	0	-	0	3	0	
15	1	7471	0	3	0	
16	1	7471	0	3	0	7471 is fallen over harvest
17	1	7471	0	3	0	
18	1	7471	0	3	0	
19	1	7471	0	3	0	
20	1	8478	0	3	0	
21	1	8478	0	3	0	
22	1	8478	0	3	0	
23	1	7474	0	3	0	
24	1	7474	0	3	0	
25	1	7474	0	3	0	
26	1	7474	0	3	0	
27	1	7474	0	3	0	
28	1	7474	0	3	0	
29	1	7474	0	3	0	
30	1	7474	0	3	0	
31	1	7474	0	3	0	
32	1	7474	0	3	0	
33	1	7474	0	3	1	
34	1	7474	0	3	0	

DATE 20170606

122.73813

EASTING

38.60821

NORTHING

821309W

PLOT

PLOT PPR309S NORTHING 38.60804 EASTING 12.73772 DATE 20170606

QUAD	CANOPY	CANOPY-ID	% ROCK	% HERB	# RECRUITS	NOTES
5	1	1246	0	1	0	
6	1	1246	0	1	0	
7	0	-	0	3	0	
8	0	-	0	3	0	
9	0	-	0	2	0	
10	1	1246	0	3	0	
11	1	1246	0	3	0	
12	1	1246	0	3	0	
13	1	7272	0	3	0	
14	1	7272	0	3	0	
15	1	7272	0	3	0	
16	1	7272	0	3	1	
17	0	-	0	3	0	
18	1	7271	0	3	0	
19	1	7265	0	3	0	
20	1	7265	0	3	0	
21	1	7265	0	3	0	
22	1	7265	0	3	0	
23	1	7265	0	2	1	
24	1	7265	0	2	1	
25	1	7265	0	1	0	
26	1	7265	0	2	0	
27	1	7265	0	2	1	
28	1	7265	0	2	0	
29	1	7265	0	1	0	
30	1	7265	0	2	0	
31	1	7265	0	2	0	
32	1	7265	0	1	0	
33	1	7265	0	1	0	
34	1	7265	0	1	0	