

ESA (Ecosystem Stress Area) – ARS #03
PI – Dan Milchunas

Objective: to conduct long-term monitoring of the vegetative characteristics of an area that was nutrient stressed during the International Biome Project. Sampling is conducted once every other year.

ESA Map and Experimental Design

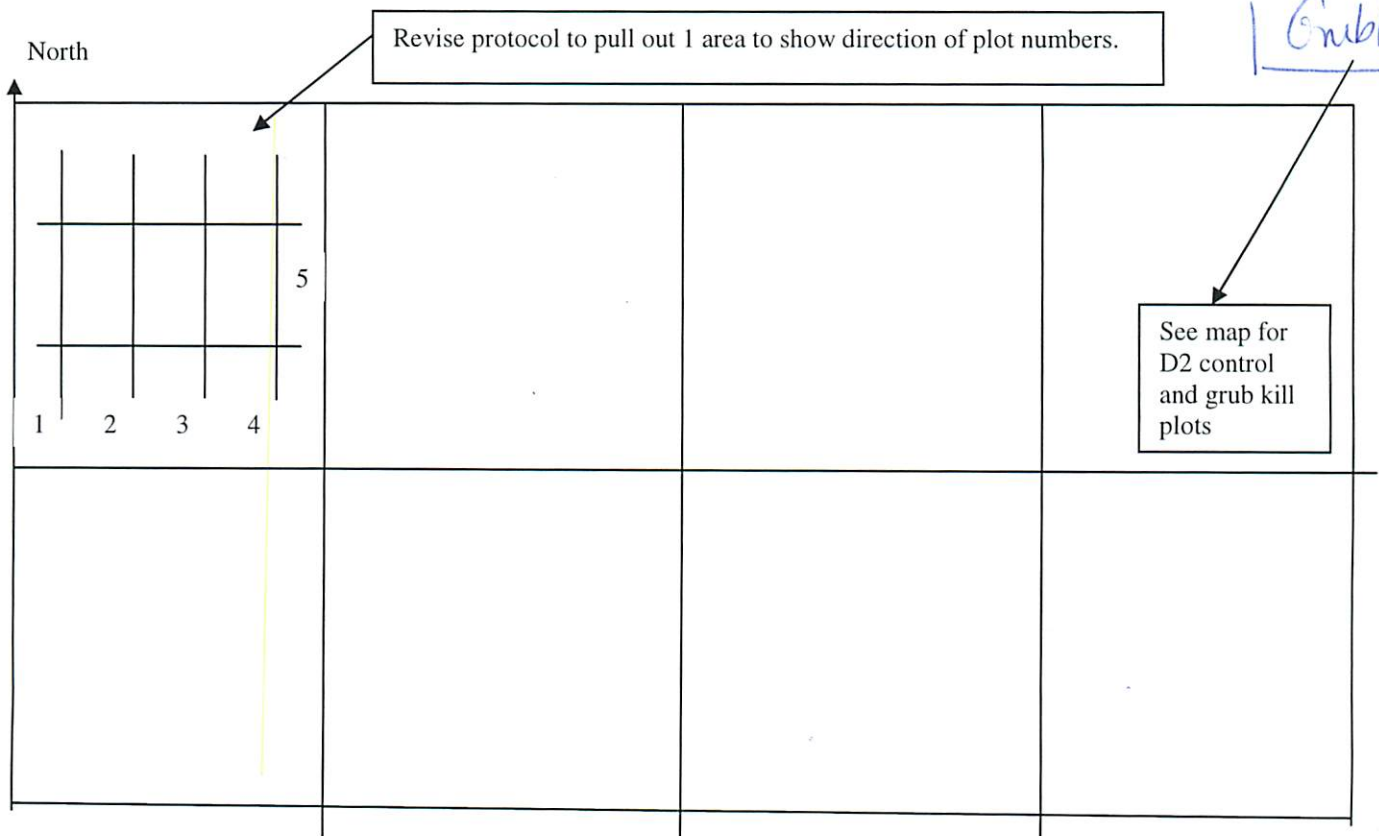
Blocks – There are 2 blocks, one to the east and one to the west. Data need to be collected in a total of 9 areas. 2 reps repeat the same treatment (D1 control, D2 control, E1 irrigation, E2 irrigation, F1 fertilization, F2 fertilization, G1 irrigation and fertilization, G2 irrigation and fertilization). In addition, there is a part of D2 that contains the grub kill. The area that contains the grub kill should be recorded as D2-G on all data sheets. The grub kill plots are marked with tent stakes rather than rebar and need to be identified with unique flagging.

Transects 1-5 – see transect lines below. The transects in the grub kill area of D2 is recorded as “G”. Plot numbers range from 1-50 in the grub kill area of D2 only. Control transects in the D2 grub kill area so no follow the standard design below. Please follow the attached map for the D2 and grub kill plots.

Plots 1-10 – see plots below. Permanent plots were established by installing transects of rebar. Each rebar has a blaze orange plastic cap. The transect and plots number need to be re-written on each cap with sharpie prior to sampling.

Important: these are permanent plots, so it is very important that plot numbers and transects are always recorded correctly.

*Please note that the Humus Experimental plots are also located within seven of the eight ESA blocks. Be careful not to tread across the Humus Plots. See Mark, Nicole, or Indy (PI) to find out how the humus plots are set up.



Sampling Protocol

Density Sampling

A 0.25 m² circular quadrat with four quarter plots is placed with the cross bars in the northeast corner. Collect data starting in the northeast quarter plot (1) and work your way around clockwise to #4. Count all of the individuals of each species rooted within each quarter plot and record the data under the appropriate quarter plot number. Use the species column to record the correct species code. If a species is not found in a quarter plot, then enter a "0" in that cell on the data sheet. We do not count the number of individuals of Bogr or Buda.

Point Frame Sampling for Basal Cover

Use the ten point frame to estimate cover at each plot location. The point frame should be placed at a random angle around the rebar. This will provide a total of 10 points of contact for each plot. The categories to record are plant species code, litter (code = litt), bare ground (code = bare), and lichen (code = pach). Be very critical about what the contact really is. If the tip intercepts dead crown, record it as litter. If the tip intercepts live crown of a plant, record the species code. The accuracy of the method is determined by how carefully contacts are identified. Record only what the exact tip of the point touches at the soil surface. Ignore hits on leaves as point move through the frame to touch what occurs at the basal level.

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Data Entered By _____

Page 1 of 8Date of Collection 8.8.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	4	10	KOSC	.	1	
								BOGR	.	1	
								LITT	2	8	
				F	2	4	9	BARE	.	1	
								KOSC	..	2	
								LITT	21	7	
				F	2	4	8	CAHE	.	1	
								OPPO	.	1	
								BARE	..	3	
								LITT	1.	5	
				F	2	4	7	BARE	..	3	
								HASP	.	1	
								LITT	L.	6	
				F	2	4	6	BOGR	.	1	
								BARE	..	3	
								LITT	L.	6	
				F	2	4	5	ARFR	.	1	
								KOSC	.	1	
								LITT	2	8	

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Data Entered By _____

Page 2 of 8Date of Collection 9.8.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	4	4	BOGR	.	1	
								BARE	.	1	
								LITT	□	8	
				F	2	4	3	BARE	..	2	
								OPPU	.	1	
								LITT	□	7	
				F	2	4	2	KOSC	..	2	
								LITT	□	8	
				F	2	4	1	KOSC	..	2	
								LITT	□	8	
				F	2	3	1	BOGR	.	1	
								BARE	..	2	
								LITT	□	7	
				F	2	3	2	BOGR	..	3	
								BARE	□	7	
				F	2	3	3	BOGR	.	1	
								SAIR	.	1	
								LITT	□	8	

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Data Entered By _____

Page 3 of 9Date of Collection 8.8.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	3	4	CAHE		1	
								OPPU		2	
								LITT	21	7	
				F	2	3	5	LITT	21	10	
				F	2	3	6	KOSC		1	
								BARE		2	
								LITT	21	7	
				F	2	3	7	ARFR		2	
								STCO		1	
								LITT	21	7	
				F	2	3	8	BOGR		1	
								KOSC		1	
								BARE		2	
								LITT	2	6	
				F	2	3	9	STCO		1	
								KOSC		1	
								BOGR		2	
								BARE		1	
								LITT	1	5	

Page 4 of 8

Date of Collection 8.8.03

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	3	10	BARE	1	5	
								KOSC	.	1	
				F	2	2	10	OPPO	.	1	
								KOSC	.	1	
								LITT	1	8	
				F	2	2	9	CAHE	.	1	
								OPPO	.	1	
								BARE	.	1	
								LITT	1	7	
				F	2	2	8	ARFR	.	3	
								CAHE	.	1	
								OPPO	.	1	
								LITT	1	5	
				F	2	2	7	OPPO	.	1	
								BOGR	.	1	
								CAHE	.	1	
								LITT	2	7	

Page 5 of 8

Date of Collection 8.8.05

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	2	6	KOSC	"	2	
								BOGR	"	1	
								LITT	LI	7	
				F	2	2	5	OPPO	"	1	
								CAHE	"	1	
								KOSC	"	1	
								LITT	LI	7	
				F	2	2	4	KOSC	"	1	
								BARE	"	2	
								LITT	LI	7	
				F	2	2	3	LITT	LI	10	
				F	2	2	2	CAHE	"	1	
								BARE	"	1	
								LITT	LI	8	
				F	2	2	1	BOGR	"	1	
								BARE	"	2	
								LITT	LI	7	

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Data Entered By _____Page 6 of 8
Date of Collection 8.8.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	1	1	KOIC	"	2	
								LITT	□	8	
				F	2	1	2	CAHE	"	1	
								BOGR	"	1	
								BARE	"	2	
								LITT	L	6	
				F	2	1	3	BARE	"	1	
								LITT	□	9	
				F	2	1	4	ARFR	"	1	
								LITT	□	9	
				F	2	1	5	BOGR	"	1	
								CAHE	"	1	
								LITT	□	8	
				F	2	1	6	BARE	"	1	
								KOSC	"	1	
								LITT	□	8	
				F	2	1	7	KOSC	"	2	
								LITT	□	8	

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Data Entered By _____

Page 7 of 8Date of Collection 8.8.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	1	8	KOSC	'	1	
								BOGR	'	1	
								BARE	..	2	
								LITT	L	6	
				F	2	1	9	KOSC	..	2	
								CAHE		1	
								LITT	L	7	
				F	2	1	10	KOSC	'	1	
								BARE	..	2	
								LITT	L	7	
				F	2	5	1	KOSC	..	2	
								LITT	L	8	
				F	2	5	2	BARE	..	3	
								LITT	L	7	
				F	2	5	3	CAHE	'	1	
								BARE	'	1	
								BOGR	'	1	
								LITT	L	7	

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Data Entered By _____

Page 8 of 8Date of Collection 8.8.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	F	2	5	4	MATA	.	1	
								BOGR	.	1	
								LITT	17	8	
				F	2	5	5	KOSC	..	2	
								BARE	.	1	
								LITT	11	7	
				F	2	5	6	KOSC	.	1	
								BARE	.	1	
								LITT	10	8	
				F	2	5	7	LITT	10	10	
				F	2	5	8	CAHE	.	1	
								KOSC	.	1	
								BOGR	.	1	
								LITT	11	7	
				F	2	5	9	KOSC	..	2	
								BARE	.	1	
								LITT	11	7	
				F	2	5	10	OPPO	.	1	
								BARE	.	1	
								LITT	10	8	

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Data Entered By _____

Page 1 of 12Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 34	STCO	2	2	0	1	
								MILI	1	0	0	0	
								SAIB	1	5	1	2	
								SPCO	4	3	2	0	
								CHLE	2	0	2	1	
								LEDE	0	2	0	0	
								BOGR	0	1	0	0	
								KOSC	0	0	0	10	
								ARLO	0	0	0	1	
				D	2		G 35	BOGR	2	0	1	0	
								KOSK	6	4	4	7	
								ARFR	1	0	0	0	
								CAHE	0	4	3	0	
								LEDE	0	0	1	0	
				D	2		G 36	CAHE	4	6	2	0	
								KOSC	8	7	1	0	
								BOGR	1	0	1	1	
								STCO	2	0	0	2	
								CYAC	1	0	0	1	
								MATA	0	0	1	0	

Page 2 of 12

Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 37	STCO	2	0	1	1	
								CAHE	3	2	2	3	
								KOSC	3	4	2	5	
								ARFR	0	1	0	0	
				D	2		G 38	KOSC	3	6	2	2	
								CYAC	1	0	0	0	
								CAHE	0	0	3	2	
								BOGR	0	0	0	2	
				D	2		G 39	OPPO	2	0	0	0	
								KOSC	3	4	2	2	
								BOGR	1	1	0	1	
								CAHE	0	0	1	3	
								STCO	0	0	2	2	
				D	2		G 40	KOSC	3	2	1	4	
								MATA	1	0	0	0	
								CAHE	0	1	6	2	
								BOGR	0	0	1	0	

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Data Entered By _____

Page 3 of 12Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8.05		D	2	G	41	BOGR	2	0	2	2	
								KOSC	3	6	0	4	
								MILI	0	1	0	0	
								STCO	0	0	1	1	
							G 42	KOSC	3	2	1	5	
								BOGR	0	1	2	0	
								CAHE	0	0	4	4	
								STCO	0	0	0	2	
							G 43	BOGR	3	0	2	1	
								KOSC	2	7	3	5	
								OPPO	0	0	3	1	
								STCO	0	0	1	1	
							G 44	OPPO	2	2	1	0	
								BOGR	1	0	0	1	
								CAHE	0	2	4	7	
							G 45	STCO	2	1	1	0	
								ARLO	1	1	0	0	
								BOGR	0	1	0	0	
								ARFR	0	0	0	1	

Page 4 of 12

Date of Collection 8.8.05

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 46	KOSC	7	4	3	9	
								SIHY	0	1	0	0	
								CAHE	0	4	3	0	
								STCO	0	0	0	1	
				D	2		G 47	OPPO	2	1	0	0	
								CAHE	7	10	0	5	
								BOGR	0	1	2	1	
								KOSC	0	0	13	11	
								CHLE	0	0	0	2	
				D	2		G 48	SAIB	1	0	0	2	
								KOSK	2	7	14	3	
								THTR	1	0	0	1	
				D	2		G 49	CAHE	3	5	4	6	
								OPPO	2	1	0	0	
								STCO	1	0	1	1	
								KOSC	7	9	12	7	
								CRME	0	3	2	4	

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Data Entered By _____

Page 5 of 12Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 50	BOGR	1	2	0	1	
								OPPO	2	0	0	0	
								ARFR	0	1	0	0	
								STCO	0	0	1	0	
								KOSC	0	0	0	8	
				D	2		G 16	LEDE	1	0	0	0	
								KOSC	4	5	7	2	
								BOGR	0	0	1	0	
								CAHE	0	0	2	8	
				D	2		G 5	KOSC	8	6	9	21	
								STCO	1	2	0	0	
								BOGR	0	1	0	0	
								CHLE	0	0	1	0	
				D	2		G 4	KOSC	19	12	6	15	
								OPPO	0	1	0	0	
				D	2		G 3	BOGR	1	0	1	2	
								KOSC	10	9	13	2	
								STCO	0	0	1	2	
								PLPA	0	0	1	1	

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Data Entered By _____

Page 6 of 12Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 2	OPPO	1	2	Ø	Ø	
								BOGR	1	1	1	Ø	
								KOSC	7	2	11	17	
								CAHE	Ø	Ø	3	4	
								SIHY	Ø	Ø	1	Ø	
				D	2		G 1	KOSC	6	21	16	18	
								CRME	Ø	Ø	1	3	
								LARE	Ø	Ø	1	1	
								STCO	Ø	Ø	1	1	
				D	2		G 7	ECVI	1	Ø	Ø	Ø	
								MATA	1	Ø	1	Ø	
								BOGR	1	2	Ø	1	
								KOSC	Ø	6	12	15	
								CAHE	Ø	Ø	3	7	
				D	2		G 8	CAHE	2	6	Ø	3	
								STCO	2	Ø	1	Ø	
								SAIB	Ø	1	Ø	Ø	
								BOGR	Ø	1	Ø	1	
								KOSC	Ø	9	7	12	

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Data Entered By _____

Page 7 of 12Date of Collection 9/9/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 27	CAHE	2	Ø	Ø	3	
								THTR	1	Ø	Ø	Ø	
								STCO	1	Ø	1	Ø	
								CYAC	Ø	1	Ø	Ø	
								KOSC	Ø	16	16	20	
				D	2		G 28	SAIE	2	1	Ø	1	
								CAHE	7	Ø	Ø	2	
								BOGR	1	2	Ø	1	
								KOSC	Ø	9	13	16	
				D	2		G 29	SAIB	2	1	Ø	Ø	
								OPPO	1	2	Ø	1	
								BOGR	Ø	1	Ø	2	
								CAHE	Ø	Ø	3	7	
								KOSC	Ø	Ø	7	9	
				D	2		G 30	KOSC	19	22	14	16	
								CAHE	3	3	6	5	
								BOGR	Ø	1	Ø	Ø	
								STCO	Ø	Ø	Ø	1	

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Data Entered By _____

Page 8 of 12Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 31	CYAC	1	0	1	0	
								STCO	2	2	0	1	
								BOGR	0	0	3	2	
								KOSC	0	0	9	8	
								MILI	0	0	0	1	
				D	2		G 32	BOGR	1	2	1	3	
								STCO	2	0	0	1	
								OPPO	0	0	3	2	
								CAHE	0	0	12	6	
								SAIB	0	0	0	1	
				D	2		G 33	STCO	2	0	0	0	
								ARFR	1	0	0	1	
								SIHY	0	1	1	1	
								BOGR	0	0	2	2	
				D	2		G 9	CYAC	1	0	0	1	
								SAIB	2	1	0	0	
								BOGR	1	2	2	0	
								STCO	0	0	1	2	
								LARE	0	0	2	2	

Recorder A. Anderson, J. HorvathPage 9 of 12

Data Entered By _____

Date of Collection 8/9/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2	G	10	SFCO	1	0	0	0	
								HASP	2	1	0	0	
								KOSC	8	2	3	12	
								BOGR	0	0	1	1	
								STCO	0	0	1	2	
				D2		G	11	STCO	1	1	2	1	
								BOGR	2	0	0	1	
								CAHE	4	2	7	0	
								OPPO	0	0	5	0	
								KOSC	0	0	6	23	
				D	2	G	14	KOSC	13	25	9	19	
								EREF	1	0	0	0	
								CAHE	0	3	3	4	
								ARFR	0	1	0	0	
								BOGR	0	0	0	2	
				D	2	G	15	CYAC	1	0	0	0	
								STCO	1	1	2	3	
								KOSC	17	8	22	28	
								CHLE	0	0	0	2	

Recorder A. Anderson, J. Stevens

Data Entered By _____

Page 10 of 12Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
EIA		8	05	D	2		G 17	KOSC	24	18	17	26	
								CAHE	6	Ø	2	7	
								OPPO	Ø	Ø	3	1	
								ARFR	Ø	Ø	1	Ø	
								CHAL	Ø	Ø	Ø	1	
				D	2		G 18	CAHE	9	12	2	Ø	
								BOGR	1	Ø	2	1	
								KOSC	6	4	2	3	
								OPPO	Ø	Ø	2	1	
								MATA	Ø	Ø	Ø	1	
								CRME	Ø	Ø	Ø	3	
				D	2		G 19	BOGR	2	1	1	1	
								CAHE	3	2	4	4	
								STCO	1	Ø	Ø	1	
								KOSC	3	9	7	15	
								THTR	Ø	Ø	1	1	
								CHLE	Ø	Ø	Ø	1	
								CRME	Ø	Ø	Ø	2	

Recorder A. Anderson, J. Steven?
Data Entered By _____Page 11 of 12
Date of Collection 8.8.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 20	STCO	2	3	1	Ø	
								BOGR	1	Ø	1	2	
								CAHE	Ø	3	9	12	
								KOSC	Ø	Ø	10	14	
				D	2		G 21	SAIB	1	Ø	Ø	1	
								OPPO	2	4	1	Ø	
								BOGR	1	1	2	2	
								KOSC	3	7	6	13	
								STCO	Ø	Ø	1	2	
				D	2		G 22	STCO	3	Ø	1	2	
								KOSC	11	16	21	20	
								MATA	1	Ø	Ø	Ø	
								BOGR	Ø	Ø	1	1	
				D	2		G 23	ARLU	1	Ø	Ø	1	
								KOSC	6	6	7	6	
								BOGR	2	2	1	1	
								CAHE	Ø	4	4	9	
								CHLE	Ø	1	2	Ø	
								STCO	Ø	Ø	Ø	1	

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Data Entered By _____

Page 2 of 12Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2		G 24	BOGR	2	1	1	1	
								KOSC	9	2	0	4	
								OPPO	0	3	2	0	
								STCO	0	0	2	2	
								CYAC	0	0	0	1	
				D	2		G 25	SAIB	1	0	0	1	
								BOGR	2	1	0	0	
								STCO	0	0	3	1	
								KOSC	0	0	21	19	
								CAHE	0	0	6	5	
				D	2		G 12	KOSC	27	20	17	18	
								CAHE	6	0	2	4	
								CYAC	0	1	0	1	
								CHLE	0	0	1	2	
				D	2		G 13	STCO	2	1	1	1	
								KOSC	13	2	2	15	
								CAHE	5	3	3	0	
								CYAC	0	1	0	0	
								BOGR	0	0	1	0	
								LARE	0	0	2	1	
								CRME	0	0	1	1	

PI – Dan Milchunas

Page 1 of 8

Date of Collection 8.8.05

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Recorder Stevens, A. Anderson

Data Entered By _____

Page 2 of 8Date of Collection 8-8-05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	D	2		G 40	Kosc		1	
								L.H		9	
							G 41	ST20		1	
								Bogr		1	
								Bare		2	
								L.H		6	
							G 42	Bare		1	
								L.H		9	
							E 43	Lohe		1	
								Bogr		2	
								L.H		7	
							E 44	Kosc		2	
								oppo		1	
								Bare		1	
								L.H		6	
							E 45	ARLO		1	
								stro		1	
								L.H		8	

Page 3 of 8
Date of Collection 8-8-05

[illegible]

Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 4 of 8Date of Collection 8-8-05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	D	2		G 5	STCO		1	
								Bare		2	
								Kosc		1	
								L.H		6	
							G 4	L.H		9	
								Kosc		1	
							G 3	Kosc		1	
								L.H		9	
							G 2	Oppo		2	
								L.H		1	
								L.H		7	
							G 1	L.H		10	
							G 7	Kosc		1	
								Bare		4	
								L.H		5	
							G 8	boyr		1	
								L.H		1	
								L.H		7	
								bare		1	

Page 5 of 8
Date of Collection 8-8-05

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Page 6 of 8
Date of Collection 8-8-05

[illegible]

Recorder J. Stevens, A Anderson

Data Entered By _____

Page 7 of 8Date of Collection 8-8-05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	D	2		G 17	L.H		8	
								Bare		1	
								Yosa		1	
							G 18	Oppo		1	
								CAHE		1	
								L.H		8	
							G 19	L.H		7	
								Oppo		1	
								Bogr		2	
							G 20	L.H		10	
							G 21	ST10		1	
								Oppo		1	
								L.H		8	
							G 22	Bare		4	
								L.H		6	
							G 23	CAHE		1	
								ARLO		1	
								Bare		2	
								L.H		6	

Page 8 of 8
Date of Collection 8-8-05

Point Frame

[illegible]

Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 1 of 17Date of Collection 8-9-05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2	4	1	ERGF	1	0	0	0	
								STCO	2	3	1	1	
								OPPO	6	7	0	2	
								CRME	1	0	0	0	
								BOGR	0	0	3	0	
								ARFR	0	0	0	1	
								SAB	0	0	0	1	
						4	2	OPPO	4	0	0	4	
								STCO	1	0	0	2	
								SPCO	2	0	6	0	
								KOSC	0	3	4	3	
								SAB	0	1	1	1	
						4	3	KOSC	1		4	1	
								SPCO	2	1	1	1	
								STCO	2	2	2	2	
								BOGR	1	0	0	0	
								SAB	0	1	1	2	
								OPPO	0	0	2	0	

Page 2 of 17
Date of Collection 8-9-05

Density

[illegible]

Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 3 of 17Date of Collection 8-9-05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2	4	7	OPPO	3	0	0	4	
								BOGR	2	0	0	0	
								ST10	1	3	2	3	
								EREF	0	1	0	0	
								CH2E	0	1	0	0	
								SA1B	0	0	2	3	
								YDSC	0	0	1	1	
								ECV1	0	0	0	1	
						4	8	ST10	2	1	1	2	
								MATA	0	1	1	0	
								SA1B	0	1	0	0	
								SP10	0	1	0	0	
								OPPO	0	0	3	3	
								ARFR	0	0	0	1	
						4	9	ST10	2	0	1	1	
								SP10	1	2	2	2	
								OPPO	5	4	20	10	
								CAHE	4	3	7	0	
								BOGR	2	1	1		

Recorder J. Stevens, A. Anderson
Data Entered By _____Page 4 of 17
Date of Collection 89.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2	4	10	CHLE	1	0		2	
								BOFR	3	4	4	5	
								SPCO	1	4	3	4	
								SAB	0	0	1	0	
								LEDE	0	0	1	0	
						3	10	SPCO	2	1	2	1	
								PLPA	2	0	2	0	
								ARFR	1	1	0	0	
								BOFR	2	3	4	2	
								OPPO	0	3	2	0	
								KOSC	0	0	1	0	
								STCO	0	0	0	1	
								CHLE	0	0	0	1	
						3	9	STCO	2	3	2	0	
								SPCO	0	1	1	2	
						3	8	STCO	2	2	0	2	
								SPCO	2	0	0	3	
								CAHE	0	12	10	0	

SAB 1 0 3 2

BOFR 0 2 2 1

KOSC 0 0 2 13

CHLE 0 0 0 3

Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 5 of 17Date of Collection 8-9-05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2	3	7	STCO	2	2	2	2	
								SAIB	1	0	2	0	
								KOSC	0	1	1	0	
								ECVI	0	1	0	0	
								BOGR	0	1	0	0	
						3	6	KOSC	30	20	27	40	
								OPPD	2	3	7	9	
						3	5	KOSC	29	44	41	25	
								SAIB	0	0	1	0	
						3	4	STCO	2	3	2	3	
								SPCO	1	0	0	2	
								SAIB	1	0	0	0	
								KOSC	0	5	0	0	
								CHLE	0	1	0	0	
								CAHE	0	0	5	0	
						3	3	STIO	1	3	1	1	
								KOSC	4	3	6	4	
								SAIB	2	4	0	1	
								CHLE	0	1	3	0	

Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 6 of 17Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2	3	2	CRME	3	2	2	2	
								YOSC	13	9	0	0	
								BOFR	2	2	2	1	
								CAHE	7	0	7	5	
								SAIB	0	1	0	2	
								CHLE	0	1	1	0	
								STCO	0	0	0	1	
						3	1	OPPO	11	2	2	2	
								SIHY	2	2	1	0	
								SPCO	1	0	0	1	
								BOFR	1	1	2	0	
						2	1	STCO	2	2	3	2	
								BOFR	1	0	0	1	
								CAHE	6	10	0	3	
								CHLE	2	0	1		
								YOSC	0	1	4	4	
								SPCO	0	4	2	3	
								SAIB	0	1	0	6	

 OPPO 0 0 5 1

 ECVI 0 0 0 0

 Mata 0 0 0 2

Page 7 of 17
Date of Collection 8.9.05

Density

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Page 8 of 17
Date of Collection 8.9.05

Density

[illegible]

Page 9 of 17
Date of Collection 8.9.05

Density

[illegible]

Recorder L. Stevens, A. Anderson

Data Entered By _____

Page 10 of 17Date of Collection 8-9-05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
6SA		8	05	D	2	2	9	KOSC	18	12	15	37	
								SAIB	2	2	2	0	
								CHLE	0	7	8	0	
						Z	10	DPPD	4	13	5	8	
								BOER	2	1	1	0	
								SPCO	1	2	0	0	
								SAIB	1	0	1	6	
								MILI	0	1	0	0	
								AZFR	0	0	1	0	
								STCO	0	0	1	0	
								CHLE	0	0	0	2	
						1	10	SAIB	3	0	2	1	
								SPCO	3	4	4	6	
								KOSC	4	4	0	0	
								STCO	1	1	0	0	
								CAHE	9	7	22	0	
								LEDE	0	1	0	0	
								BOER	0	0	0	2	

Page 11 of 17
Date of Collection 8 9 05

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Recorder J. Stevens, A Anderson

Data Entered By _____

Page 12 of 17Date of Collection 8-9-05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	2	1	7	STCO	1	0	1	2	
								ARFR	1	0	0	0	
								BOGR	0	1	2	0	
								ARLO	1	0	0	0	
								OPPO	2	0	4	3	
								SPCO	0	0	0	3	
								MILI	0	0	0	1	
						1	6	SPCO	3	3	1	3	
								STCO	1	1	1	2	
								CAHE	12	0	0	17	
								ARFR	0	0	1	0	
						1	5	STCO	2	1	1	0	
								ARFR	0	1	0	0	
								ECVI	0	1	0	0	
								SPCO	0		1	0	
						1	4	STCO	1	2	2	2	
								BOGR	1	0	0	1	
								CAHE	6	6	0	6	

SAIB	1	0	0	0
SPCO	0	2	0	0
LEDE	0	1	0	0

Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 13 of 17Date of Collection 8-9-05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes	
									1	2	3	4		
ESA		8	05	D	2	1	3	CRME	2	0	4	0		
								BOHR	1	1	0	0		
								STCO	1	0	1	1		
								OTPO	1	5	0	0		
								CAHE	4	7	9	0		
								CHLE	0	1	0	0		
								MATA	0	0	0	2		
						1	2	STCO	1	2	1	3		
								OTPO	5	0	2	0		
								SPCO	1	0	0	0		
								SAIB	1	0	0	1		
								CHLE	1	1	1	0		
								CAHE	0	13	10	4		
						1	1	STCO	0	1	1	1		
								SAIB	2	3	3	2		
								KOSC	0	0	0	7		
								OTPO	9	7	0	6		
								CAHE	4	0	7	0		
									THTR	0	1	0	0	
									CHLE	0	1	0	0	
									SPCO	0	3	0	0	

KOSC

EVI - 10/1/14
Covl

ARS Study #3 (ESA)

PI - Dan Milchunas

Recorder

Data Entered By

W. McBride, C. Carter

Page 14 of 17

Date of Collection 8.9.05

CYAR
-th. st 6
LYJU

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
				D	2	5	1	MATA	1	0	0	1	
								OPPO	4	6	2	6	
								PSTE	0	1	0	0	
								STCO	0	1	0	0	
								ARFR	0	1	0	0	
								SPCO	0	0	3	6	
								BOGR	1	1	2	0	
								SIHY	0	0	1	0	
				D	2	5	2	MATA	1	1	0	0	
								LEDE	1	2	0	1	
								SPCO	3	9	5	2	
								CAHE	12	9	30	20	
								BOGR	3	3	0	1	
								SAIB	4	3	6	1	
								CHLE	1	1	0	0	
				D	2	5	3	STCO	1	0	2	1	
								OPPO	7	8	8	9	
								SPCO	1	1	1	0	

Recorder W. McBride, C. Carter

Data Entered By _____

Page 15 of 17

Date of Collection _____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				D	2	5	3	ARFR	0	1	0	0	
								CRME	0	0	0	0	
								BOGR	3	0	0	1	
								PLPA	0	1	1	0	
								ELVI	3	2	0	0	
								CRME	0	5	0	0	
								CAHE	0	0	5	9	
ESA				D	2	5	4	STCO	3	3	1	3	
								CHLE	0	1	0	0	
								OPPO	0	0	1	5	
ESA				D	2	5	5	OPPO	7	13	0	6	
								BOGR	3	3	2	0	
								STCO	0	0	1	1	
								SPCO	1	0	1	0	
								MILI	0	1	0	0	
								CAHE	0	0	0	12	
								KOSC	1	0	2	0	
								SAIB	1	1	0	0	
								CHLE	0	0	1	0	

(cont'd)

Recorder W. M. Bride, C. Carter

Data Entered By _____

Page 16 of 17Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				D	2	5	6	SPCO	0	4	3	0	
								OPPO	2	3	2	6	
								CAHE	45	20	20	20	
								SIHY	1	0	0	1	
								BOGR	3	5	7	2	
								PSTE	0	1	0	1	
								KOSC	0	0	1	0	
								ECVI	0	0	0	2	
ESA				D	2	5	7	ECVI	4	0	0	0	
								SPCO	7	4	2	2	
								STCO	3	4	3	4	
								OPPO	0	10	4	2	
								SAIB	1	0	0	0	
								SIHY	0	0	0	1	
ESA				D	2	5	8	LEDE	1	0	0	2	
								SPCO	10	10	10	8	
								BOGR	2	2	2	3	
								CAHE	0	0	0	10	

Page 17 of 17
Date of Collection 8.9.05

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Recorder A. Amen + M. Hendrick
 Data Entered By _____

Page 1 of 7
 Date of Collection 8/9/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		G	1	1	1	STCO	.	1	
								LITT	☐	9	
ESA		8-05		G	1	1	2	KOSC	.	1	
								CAH	.	1	
								LITT	☐	8	
ESA		8-05		G	1	1	3	KOSC	::	4	
								LITT	☐	6	
ESA		8-05		G	1	1	4	KOSC	..	2	
								LITT	☐	8	
ESA		8-05		G	1	1	5	KOSC	::	4	
								LITT	☐	6	
ESA		8-05		G	1	1	6	BARE	.	1	
								KOSC	..	2	
								LITT	☐	7	
ESA		8-05		G	1	1	7	CAHE	.	1	
								KOSC	.	1	
								LITT	☐	8	
ESA		8-05		G	1	1	8	BARE	::	3	
								KOSC	.	1	
								LITT	☐	6	

Recorder M. Hendrick, A. Amen

Data Entered By _____

Page 2 of 7Date of Collection 8/9/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		G	1	1	9	KOSC	::	4	
								LITT	⌈:	6	
ESA		8-05		G	1	1	10	KOSC	⌈:	5	
								LITT	::	5	
ESA		8-05		G	1	2	10	KOSC	⌈:	7	
								LITT	::	3	
ESA		8-05		G	1	2	9	KOSC	⌈:	7	
								LITT	::	3	
ESA		8-05		G	1	2	8	LITT	::	3	
								KOSC	.	1	
								CRME	.	1	
								BARE	::	5	
ESA		8-05		G	1	2	7	KOSC	::	3	
								LITT	⌈:	7	
ESA		8-05		G	1	2	6	KOSC	::	5	
								CRME	.	1	
								LITT	::	4	

Recorder M. Hunderick + A. Ameh

Data Entered By _____

Page 3 of 7Date of Collection 8/9/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		G	1	2	5	KOSC	::	3	
								CAHE	'	1	
								LITT	∩	6	
ESA		8-05		G	1	2	4	KOSC	::	5	
								LITT	::	5	
ESA		8-05		G	1	2	3	KOSC	::	4	
								CAHE	'	1	
								LITT	::	5	
ESA		8-05		G	1	2	2	CRME	::	3	
								KOSC	'	1	
								LITT	::	6	
ESA		8-05		G	1	2	1	CRME	'	1	
								KOSC	'	1	
								LITT	∩	8	
											
ESA		8-05		G	1	3	1	KOSC	'	1	
								BARE	'	1	
								LITT	∩	8	

Recorder M. Hendrick, A. Amen
 Data Entered By _____

Page 4 of 7
 Date of Collection 8/9/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		G	1	3	2	LITT	✕	10	
ESA		8-05		G	1	3	3	CRME	.	1	
								KOSC	::	4	
								LITT	:-	5	
ESA		8-05		G	1	3	4	KOSC	⌘	5	
								LITT	⌘	5	
ESA		8-05		G	1	3	5	KOSC	⌘	7	
								LITT	:.:	3	
ESA		8-05		G	1	3	6	KOSC	T.	6	
								LITT	::	4	
ESA		8-05		G	1	3	7	KOSC	⌘	7	
								LITT	..	3	
ESA		8-05		G	1	3	8	KOSC	:	2	
								LITT	⌘	8	
ESA		8-05		G	1	3	9	KOSC	⌘	5	
								LITT	⌘	5	
ESA		8-05		G	1	3	10	KOSC	:	2	
								LITT	⌘	8	

Recorder M. Hendrick + A. AmenPage 5 of 7

Data Entered By _____

Date of Collection _____

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		G	1	4	10	KOSC	∴	3	
								LITT	⌈⌋	7	
ESA		8-05		G	1	4	9	KOSC	∴	2	
								STCO	•	1	
								LITT	⌈⌋	7	
ESA		8-05		G	1	4	8	KOSC	⌈⌋	7	
								LITT	∴	3	
ESA		8-05		G	1	4	7	KOSC	⌈⌋	5	
								LITT	⌈⌋	5	
ESA		8-05		G	1	4	6	CAHE	•	1	
								CRME	•	1	
								KOSC	•	1	
								LITT	⌈⌋	7	
ESA		8-05		G	1	4	5	KOSC	⌈⌋	6	
								BAPE	∴	2	
								LITT	∴	2	
ESA		8-05		G	1	4	4	KOSC	⌈⌋	7	
								LITT	∴	3	

Recorder M. Hendrick & A. Amer

Data Entered By _____

Page 6 of 7

Date of Collection _____

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		G	1	4	3	KOSC	⌈	7	
								LITT	:	3	
ESA		8-05		G	1	4	2	BARE	..	2	
								LITT	⌈	8	
ESA		8-05		G	1	4	1	BARE	..	2	
								STED	.	1	
								LITT	⌈	7	
ESA		8-05		G	1	5	5	BOGR	.	1	
								KOSC	.	1	
								LITT	⌈	8	
ESA		8-05		G	1	5	4	KOSC	.	1	
								BARE	.	1	
								LITT	⌈	8	
ESA		8-05		G	1	5	3	KOSC	:	4	
								LITT	⌈	6	
ESA		8-05		G	1	5	2	CRME	.	1	
								KOSC	:	2	
								LITT	⌈	7	

Page 7 of 7

Date of Collection _____

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Page 1 of 9
Date of Collection 8.9.05

Point Frame

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Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 2 of 9Date of Collection 8.9.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ES*		8	05	D	2	4	7	OPPO		2	
								STCO		2	
								BARE		1	
								LITT		5	
					2	4	8	OPPO		1	
								STCO		1	
								BARE		1	
								LITT		7	
					2	4	9	OPPO		4	
								LITT		4	
								BARE		1	
								STCO		1	
					2	4	10	BOGR		3	
								BARE		1	
								LITT		6	
					2	3	10	PIPA		1	
								OPPO		2	
								LITT		6	
								BARE		1	

Page 3 of 9
Date of Collection 8.9.05

Point Frame

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Recorder J. Stevens, A. Anderson

Data Entered By _____

Page 4 of 9Date of Collection 8.9.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	D	2	3	3	STCO		1	
								KOSC		1	
								BARE		2	
								LITT		6	
						3	2	BOER		1	
								LITT		8	
								BARE		1	
						3	1	OPPO		2	
								LITT		8	
						2	1	STCO		2	
								BARE		1	
								LITT		7	
						2	2	KOSC		1	
								CRME		1	
								LITT		8	
						2	3	MATA		1	
								BARE		2	
								LITT		7	

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Page 5 of 9
Date of Collection 8.9.05

Point Frame

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Recorder A. Anderson, J. Steyer

Data Entered By _____

Page 6 of 9Date of Collection 8.9.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	D	2	2	6	OPPO	:	2	
								BARE	L	6	
								LITT	:	2	
				D	2	2	7	LITT	□	8	
								STRO	:	2	
				D	2	2	8	LITT	...	6	
								SPCO	.	1	
								BARE	..	3	
				D	2	2	9	KOSC		8	
								LITT	"	2	
				D	2	2	10	LITT	□	8	
								ARFR	:	2	
				D	2	1	10	CAHE	:	2	
								SAIB	.	1	
								LITT	□	7	
				D	2	1	9	LITT	⊗	10	
				D	2	1	8	C. villosa	:	2	
								LITT	□	8	

Page 7 of 9

Date of Collection 8.9.05

Point Frame

[illegible]

Recorder A. Anderson, J. Stevens

Data Entered By _____

Page 8 of 9Date of Collection 8.9.05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8	05	D	2	5	1	OPPO	::	21	
								STCO	.	1	
								LITT	::	5	
				D	2	5	2	CAHE	::	5	
								LITT	::	5	
				D	2	5	3	OPPO	::	4	
								LITT	L	6	
				D	2	5	4	STCO	::	2	
								OPPO	::	4	
								LITT	::	4	
				D	2	5	5	OPPO	::	3	
								BOGR	::	2	
								SAIB	.	1	
								STCO	.	1	
								LITT	::	3	
				D	2	5	6	OPPO	::	5	
								BOGR	::	2	
								CAHE	::	2	
								LITT	.	1	

Page 9 of 9

Date of Collection 8.9.05

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Recorder A. Anderson, J. Steven,
Data Entered By _____Page 1 of 18
Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	F	2	1	10	STCO	0	1	1	0	
								OPPO	3	6	4	5	
								KOSC	1	5	10	15	
								CAHE	0	10	0	0	
								SAIB	0	1	0	0	
								ARFR	0	0	0	1	
								BOGR	0	0	0	1	
				F	2	1	9	STCO	1	2	2	1	
								KOSC	5	1	2	1	
								CHLE	1	1	1	5	
								OPPO	10	10	5	5	
								BOGR	1	0	0	0	
								SAIB	0	1	1	1	
				F	2	1	8	SAIB	1	0	0	0	
								KOSC	0	0	0	1	
								OPPO	13	0	5	10	
								STCO	1	4	3	2	
								CAHE	0	20	25	5	
								ARFR	0	1	0	0	
								BOGR	1	3	1	0	

Recorder A. Anderson, J. StevenPage 2 of 18

Data Entered By _____

Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	F	2	1	7	SAIB	1	0	0	1	
								CAHE	0	0	0	5	
								STCO	2	4	2	2	
								KOSC	0	0	0	1	
								SPCO	0	0	1	0	
								BOGR	0	0	1	1	
				F	2	1	6	OPPO	7	3	9	0	
								KOSC	5	5	8	25	
								STCO	2	2	2	1	
								SAIB	0	1	0	0	
				F	2	1	5	OPPO	8	10	8	0	
								KOSC	20	20	15	17	
								STCO	1	0	1	1	
								SPCO	1	5	0	0	
				F	2	1	4	KOSC	2	5	5	3	
								OPPO	9	3	12	4	
								SAIB	0	2	1	4	
								STCO	0	1	2	0	
								CHLE	7	4	3	13	
								SPCR	1	0	0	0	
								LEDE	0	1	0	0	
								SPCO	0	0	0	1	

Recorder A. Anderson J. StevensPage 3 of 18

Data Entered By _____

Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	F	2	1	3	SAIB	1	0	1	1	
								KOSC	15	30	25	5	
								STCO	0	2	0	0	
								OPPO	0	0	3	11	
								CHLE	5	1	3	5	
								SPCR	1	0	0	0	
								BOGR	0	0	1	1	
				F	2	1	2	SIHY	1	0	0	0	
								CHLE	3	3	3	4	
								KOSC	0	10	0	17	
								OPPO	15	20	10	19	
								SAIB	1	5	4	0	
								CAHE	0	5	20	4	
								BOGR	1	0	0	0	
				F	2	1	1	LEDE	1	3	0	0	
								SAIB	0	4	5	6	
								KOSC	10	18	7	3	
								CHLE	1	7	0	6	
								BOGR	1	0	4	1	
								CRME	0	0	2	0	
								CAHE	10	0	15	20	

Recorder A. Anderson, J. StevensPage 4 of 18

Data Entered By _____

Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	F	2	2	1	LEDE	1	0	0	0	
								STCO	2	2	0	3	
								OPPO	5	0	0	0	
								CHLE	0	3	3	5	
								SAIB	0	1	0	2	
								KOSC	0	1	0	3	
								BOGR	1	0	2	1	
								CAHE	3	4	0	0	
				F	2	2	2	OPPO	7	0	0	0	
								SAIB	3	6	4	10	
								CHLE	0	0	3	5	
								KOSC	5	5	20	0	
								BOGR	0	0	0	2	
								CAHE	10	13	5	30	
								SPCO	0	2	0	0	
				F	2	2	3	CHLE	7	3	5	8	
								KOSC	5	15	8	6	
								SAIB	10	0	0	15	

BOGR	0	1	1	0
OPPO	0	0	2	0
CAHE	10	15	25	35

Recorder A. Anderson, J. StevensPage 5 of 18

Data Entered By _____

Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	F	2	2	4	STCO	1	0	0	0	
								KOSC	5	15	15	20	
								BOGR	1	2	1	1	
								CHLE	0	3	0	0	
								SAIB	7	5	0	0	
				F	2	2	5	STCO	1	0	0	0	
								BOGR	0	2	0	0	
								SAIB	1	1	10	1	
								SPCO	1	0	0	0	
								BOGR	1	0	0	0	
								OPPU	7	10	6	12	
								CAHE	0	0	5	0	
								SIHY	0	0	1	0	
				F	2	2	6	KOSC	12	4	12	9	
								SPCO	1	0	1	0	
								SAIB	2	0	1	2	
								CHLE	1	1	2	1	
								OPPU	0	0	0	4	
								BOGR	1	1	0	0	
								STCO	1	2	0	0	

Recorder A. Anderson, J. Stevens

Data Entered By _____

Page 6 of 18Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	F	2	2	7	CAHE	25	15	20	10	
								SAIB	1	0	2	0	
								SPCO	0	0	2	0	
								OPPO	0	6	0	6	
								BOGR	0	1	1	1	
								STCO	1	0	0	0	
								ECVI	0	1	0	0	
				F	2	2	8	STCO	2	0	0	0	
								ARFR	0	1	0	1	
								CAHE	2	0	5	0	
								CRME	0	2	0	0	
								SPCO	0	1	0	0	
								SAIB	0	2	0	0	
								KOSC	0	2	0	0	
								AGSM	0	0	1	0	
				F	2	2	9	ARFR	1	0	0	0	
								OPPO	12	12	7	15	
								SPCO	1	1	3	4	

STCO	0	0	1	0
CAHE	5	10	0	30
BOGR	1	1	1	1
ECVI	0	0	1	0

Page 7 of 18

Date of Collection 8.9.05

Density

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Page 8 of 18
Date of Collection 8.9.05

Density

[illegible]

Recorder A. Anderson, J. Stevens

Data Entered By _____

Page 9 of 18Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	F	2	5	5	SIHV	1	0	1	0	
								OPPO	5	0	12	8	
								LEDE	1	0	1	0	
								LYJU	1	0	0	0	
								CHLE	8	4	6	0	
								ARFR	1	1	0	0	
								SPCO	0	2	2	1	
								KOSC	0	5	5	1	
				F	2	5	4	KOSC	6	15	9	8	
								SAIB	0	0	7	0	
								BOGR	1	3	2	3	
								CHLE	4	1	0	3	
								SPCO	0	0	2	0	
				F	2	5	3	CHLE	3	2	4	0	
								KOSC	10	12	20	17	
								BOGR	0	0	1	1	
								OPPO	0	0	0	4	
								SPCO	0	0	0	2	
								SAIB	2	2	0	0	
								CAHE	10	0	0	0	

Page 10 of 18
Date of Collection 8.9.05

Density

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Recorder C. Carter, W. McBride
Data Entered By _____Page 11 of 18
Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				F	2	A	1	KOSC	60	45	35	45	
ESA				F	2	A	2	KOSC	35	20	40	25	
								OPPO	0	5	4	13	
ESA				F	2	A	3	CHLE	11	3	1	0	
								KOSC	10	20	20	25	
								OPPO	1	0	3	16	
								LEDA	1	0	1	0	
ESA				F	2	A	4	OPPO	6	2	3	0	
								CHLE	0	1	0	3	
								KOSC	45	23	30	30	
								CHLE	2	0	0	0	
								SPCO	1	1	1	0	
								BOGR	10	0	0	0	
ESA				F	2	A	5	KOSC	10	4	25	10	
								SPCO	1	0	2	0	
								CHLE	4	0	0	0	
								CHLE	4	0	4	4	
								SIAB	2	0	0	0	
								BOGR	0	0	0	1	

Recorder C. Carter, W. McBride
Data Entered By _____Page 12 of 18

Date of Collection _____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				F	2	4	6	OPPO	4	7	3	0	
								SPCO	1	1	0	1	
								CHLE	0	4	0	1	
								KOSC	0	0	1	1	
								SPCR	0	0	0	1	
								SIAB	1	0	2	1	
								BOGR	3	2	3	2	
								CAHE	0	0	0	7	
								ECVI	0	2	0	0	
								ALFR	0	0	1	0	
ESA				F	2	4	7	OPPO	7	0	0	0	
								SPCO	2	0	0	4	
								KOSC	4	11	10	5	
								STRO	2	1	0	0	
								CHLE	1	3	1	2	
								SIAB	0	0	1	0	
								BOGR	0	1	0	1	
								SIAB	0	0	3	3	

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				F	2	4	8	KOSC	35	45	30	65	
								OPPO	8	0	12	3	
								CHLE	1	2	2	1	
								CAME	6	0	2	2	
								SPCO	1	0	0	0	
ESA				F	2	4	19	KOSC	70	90	90	75	
								SIHY	1	1	0	1	
								ASOX	0	2	0	0	
								CHLE	1	1	0	0	
ESA				F	2	4	10	KOSC	90	80	80	100	
								CHLE	0	5	0	0	
								SIHY	1	1	1	1	
								LIEDIE	0	1	0	0	
								CAME	0	0	0	1	
								POOR	0	2	0	0	

Recorder C. Carter, W. McBridePage 14 of 18

Data Entered By _____

Date of Collection _____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quadrat Plot				Notes
									1	2	3	4	
ESA				F	2	3	10	KOSC	45	50	50	80	
								LARI	Ø	1	1	Ø	
								CAHE	Ø	Ø	1	Ø	
								LEDE	Ø	2	Ø	Ø	
								CHLE	1	1	Ø	Ø	
								SPCO	Ø	Ø	1	1	
ESA				F	2	3	9	STCO	3	Ø	1	Ø	
								CAHE	4	10	15	5	
								KOSC	35	35	25	35	
								SIAB	Ø	Ø	1	1	
								LEDE	Ø	Ø	1	Ø	
								SPCO	1	Ø	Ø	Ø	
								BUGR	Ø	1	Ø	Ø	
ESA				F	2	3	8	STCO	1	1	Ø	1	
								KOSC	20	25	20	10	
								CAHE	3	3	4	2	
								BUGR	Ø	1	1	Ø	
								CHLE	Ø	Ø	1	Ø	

Page 15 of 18

Date of Collection_____

Density

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Recorder _____

Page 16 of 18

Data Entered By _____

Date of Collection _____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8'05		F	2	3	1	SAIB	3	✓	3	2	
								CHLE	1	3	5	0	
								CRME	4	4	1	0	
								KOSC	3	5	7	5	
								OPPO	4	0	0	3	
								CAHE	5	6	0	0	
								STCO	0	1	1	2	
								BOGR	0	1	1	0	
								ARFR	0	1	1	0	
								SPCO	0	0	0	2	
								ECVI	0	0	0	1	
ESA		8'05		F	2	3	2	CHLE	6	5	1	0	
								KOSC	4	0	0	1	
								OPPO	8	4	0	2	
								SAIB	7	4	4	5	
								CAHE	5	10	4	2	
								BOGR	0	2	1	1	
								STCO	0	0	1	1	

SIHY 0 0 1 0

Recorder _____

Page 17 of 18

Data Entered By _____

Date of Collection _____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8 05		F	2	3	3	KO SC	15	12	12	15	
								CRME	5	0	0	10	
								CHLE	15	16	7	16	
								SIHY	2	0	0	2	
								SATB	2	2	3	2	
								CAHE	3	20	10	5	
								STCO	0	0	1	1	
								LEDE	0	0	1	0	
ESA		8 05		F	2	3	4	LEDE	6	3	0	0	
								SPCO	0	4	4	1	
								OPPO	2	1	13	14	
								CHLE	0	4	0	2	
								POGR	1	1	3	1	
								KO SC	10	0	10	7	
								ARFR	1	0	0	0	
								SATB	4	2	0	6	
								CAHE	1	0	0	0	
								COVI	0	1	0	0	

Page 18 of 18
Date of Collection _____

Density

[illegible]

Recorder A. Anderson, J. Stevens
Data Entered By _____Page 1 of 10
Date of Collection 8.9.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	G	1	4	1	KOSC	12	20	17	20	
								STCO	1	0	0	0	
								ARFR	0	0	1	0	
				G	1	4	2	ARFR	2	1	1	0	
								CYAC	1	0	0		
								KOSC	3	3	0	4	
								SPCO	0	1	1	0	
								LARE	0	2	0	6	
				G	1	4	3	KOSC	45	50	15	45	
								SPCO	0	1	2	1	
								LARE	0	2	7	0	
				G	1	4	4	KOSC	60	52	49	38	
								SIHY	0	0	0	1	
								CAHE	0	0	15	20	
								LARE	0	0	0	1	
				G	1	4	5	KOSC	57	58	60	45	
								CYAC	0	1	0	0	
								SIHY	1	0	0	0	
								LARE	0	0	1	0	

Recorder A. Anderson, J. Stevens

Data Entered By _____

Page 2 of 10Date of Collection 8/9/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	G	1	4	6	LARE	0	9	12	0	
								CAHE	25	0	7	0	
								KOSC	19	24	14	27	
								SPCR	0	0	0	1	
				G	1	4	7	CRME	17	9	7	1	
								KOSC	9	20	19	12	
								LARE	0	0	5	3	
								CAHE	0	0	0		
								SIHY	0	1	0		
				G	1	4	8	KOSC	25	35	30	35	
								CAHE	10	7	0	0	
								SIHY	1	0	0	0	
								SAIB	0	0	1	0	
				G	1	4	9	KOSC	25	30	25	35	
								STCO	0	1	1	0	
								SAIB	0	2	0	0	
				G	1	4	10	KOSC	35	25	20	35	
								STCO	1	2	0	0	

Recorder A. Anderson, J. Stevens
Data Entered By _____

Page 3 of 10
Date of Collection 8.9.05

Density

[illegible]

Page 4 of 10
Date of Collection 8.9.05

Density

[illegible]

Recorder J. Pelmar, B. Gley
Data Entered By _____Page 5 of 10
Date of Collection 8/9/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	G	1	3	1	KOSC	24	25	35	35	
								STCO	1	1	1	0	
								SPCO	1	0	0	0	
								LEDE	1	0	0	0	
								CAHE	3	6	3	4	
								SINY	0	0	1	1	
ESA		8	05	G	1	3	2	KOSC	5	25	10	14	
								LARE	4	0	1	0	
								SAIB	1	1	0	0	
								CAHE	1	3	4	0	
ESA		8	05	G	1	3	3	KOSC	20	23	30	30	
								SPCO	3	3	2	0	
								CAHE	0	3	0	2	
								LARE	0	0	2	0	
ESA		8	05	G	1	3	4	KOSC	40	45	35	35	
								CAHE	15	20	5	3	
								CHLE	0	0	3	0	
								BUGR	0	0	0	1	

Page 6 of 10
Date of Collection _____

Density

[illegible]

Recorder J. Peltner, B. Gley
Data Entered By _____Page 7 of 10

Date of Collection _____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	G	1	3	10	KOSC	55	55	55	55	
								STCO	0	1	1	0	
								LARE	0	0	0	2	
ESA		8	05	G	1	4	1	KOSC	4	8	11	0	
								STCO	3	2	3	3	
								CAHE	0	2	0	4	
ESA		8	05	G	1	4	2	KOSC	30	25	35	33	
								STCO	0	1	1	2	
								CAHE	30	20	16	6	
ESA		8	05	G	1	4	3	KOSC	45	45	45	45	
								LARE	1	0	0	0	
								CAHE	3	6	7	0	
								BOGR	0	1	0	0	
								STCO	0	0	0	1	
								ARFR	0	0	0	1	
ESA		8	05	G	1	4	4	KOSC	15	25	30	20	
								CAHE	12	12	18	20	
								LARE	4	0	0	8	

BOGR 1 0 0 0
SAIB 0 0 1 0

Recorder W. McQuade, C. Carter
Data Entered By _____

Data Entered By

Date of Collection 8.9.05

[illegible]

Page 9 of 10
Date of Collection 8.9.05

Density

[illegible]

Page 10 of 10
Date of Collection 8.9.05

Quarter Plot

[illegible]

Recorder Carter, W McBride

Data Entered By _____

Page 1 of 20Date of Collection 8.10.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESX				D	1	1	1	OPPO	5	4	0	21	
								THTR	0	1	2	0	
								SIAB	2	1	0	4	
								SPCO	0	0	2	0	
								BOBR	0	2	1	2	
								PAHE	3	0	5	0	
								ECVI	1	0	0	0	
								SIHY	0	0	0	1	
ESX				D	1	1	2	ALFR	1	0	1	0	
								SIAB	3	0	0	1	
								BOBR	0	2	3	0	
								SPCO	0	0	1	0	
								SIHY	1	0	1	0	
								THTR	0	2	1	0	
								LYSU	0	1	0	0	
								SPCR	0	1	0	0	
								LEDE	0	0	0	1	
								OPPO	0	0	0	1	

Recorder V. Carter, W. McBride

Data Entered By _____

Page 2 of 20Date of Collection 8.10.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				D	1	1	3	CHLE	1	0	0	0	
								SPCO	1	6	5	4	
								OPPO	0	4	0	0	
								VUOL	0	1	0	0	
								CAHE	20	15	15	30	
								BOGR	3	3	2	4	
								LEDE	1	0	0	0	
ESA				D	1	1	4	SINB	1	1	1	1	
								CHLE	2	1	0	1	
								BOGR	1	1	2	0	
								OPPO	0	0	3	2	
								CAHE	30	40	20	55	
								SPCO	0	2	1	0	
				D	1	1	5	PKER	1	0	0	0	
								CHLE	0	1	0	0	
								SINB	1	1	0	0	
								SPCO	2	1	2	3	
								PUDA	0	0	1	2	

Recorder C. Carter, IV. McBride
Data Entered By _____Page 3 of 20Date of Collection 8.10.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
					1	1	5	BOGR	0	1	0	1	
								THTR	0	0	1	0	
								CAHE	30	15	30	15	
								SIHY	0	1	0	1	
ESA				D	1	1	6	SIAB	2	0	0	0	
								CHLE	0	0	0	0	
								SPCL	0	1	0	0	
								ECVI	0	0	0	0	
								BOGR	3	3	5	2	
								CAHE	30	20	5	5	
ESA				D	1	1	7	THTR	1	0	0	0	
								SIAB	0	1	1	5	
								SIHY	0	1	1	0	
								CHLE	0	0	1	0	
								CAHE	30	60	50	40	
								BOGR	2	2	1	1	
								BUDA	0	0	0	1	

Recorder C. Carfer, W. McBride
Data Entered By _____Page 4 of 20Date of Collection 8.16.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESD				D	1	1	8	TATR	0	1	0	0	
								SIAB	1	0	0	0	
								SPLO	0	2	1	0	
								ARLO	1	0	0	0	
								BGR	3	0	3	1	
ESD				D	1	1	9	STO	0	1	0	0	
								VUL	1	2	0	0	
								ARLO	1	1	1	1	
								SPLO	1	1	0	0	
								ORPO	9	12	4	0	
								BGR	2	2	1	1	
								FERV	1	0	0	0	
								SIAB	1	1	0	0	
								ALR	1	0	0	0	
								LYSU	1	1	0	0	
								CATIE	0	0	1	0	
				D	1	1	10	EREF	1	1	1	1	
								ARFR	1	1	0	0	

VUL	0	0	1	1
ARLO	1	1	0	1
CATIE	10	0	5	0
SIAB	2	0	4	0

Recorder W. McBride, C. Carter

Data Entered By _____

Page 5 of 20Date of Collection 8.10.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				D	1	2	10	OPPO	10	17	0	5	
								ARFR	0	1	0	0	
								THTR	0	1	1	2	
								LEDE	0	0	3	0	
								ARLO	0	2	0	0	
								VHOL	0	1	0	0	
								SPCO	0	0	0	1	
								BOGR	3	2	2	3	
ESA				D	1	2	9	THTR	1	2	1	1	
								BOGR	2	3	3	3	
								SPCO	1	0	1	0	
								ECVI	0	0	0	1	
ESA				D	1	2	8	ECVI	0	1	0	1	
								OPPO	0	0	1	0	
								BOGR	3	2	3	3	
								VHOL	0	2	1	0	
							7	CHHE	0	150	100	100	
								CHHE	1	0	0	0	

ARFR 0 0 1 0 1
 THTR 1 0 0 0 1
 ECVI 0 0 1 0 1

Recorder W. McBride, C. Carfer

Data Entered By _____

Page 6 of 20Date of Collection 8.10.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
				D	1	2	6	SIAB	1	3	2	0	
								CAHE	100	50	20	20	
								BOGR	1	0	2	3	
								SIHY	0	1	0	0	
				D	1	2	5	ECVI	0	0	5	0	
								SIAB	3	2	2	0	
								SPCO	2	0	2	2	
								CAHE	40	60	40	80	
								BOGR	1	0	2	1	
								CHLE	0	2	0	0	
				D	1	2	4	SIAB	0	0	1	1	
								BOGR	4	1	2	3	
								CHLE	0	1	2	0	
								SPCO	5	1	4	2	
								THTR	3	0	1	0	
								CAHE	3	5	0	0	
								ADPR	0	0	0	1	
								WLOL	0		0	1	
								PLPA	0	1	0	0	
								BIDR	0	2	0	0	

Recorder C. Carter, W. McBride
Data Entered By _____Page 7 of 20
Date of Collection 8-10-05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				D	1	2	3	OPPD	1	6	7	0	
								ARFR	0	0	0	0	
								ARLO	1	0	0	0	
								SPCO	1	2	3	3	
								PLPA	0	0	0	1	
								ECVI	0	1	0	0	
								CANE	0	15	30	15	
								THTR	1	1	0	1	
								BOGR	1	0	3	3	
								SIAB	0	0	0	1	
							2	SIAB	1	1	1	6	
								THTR	3	0	1	3	
								PLPA	0	1	0	0	
								BOGR	2	2	3	2	
								CANE	0	5	20	0	
								SPCO	1	0	0	1	
								ARLO	0	0	1	0	
								OPPD	0	0	0	1	

Recorder C. Carter, W. McBride

Data Entered By _____

Page 8 of 20Date of Collection 8.10.05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA				D	1	2	1	STLO	0	1	0	0	
								SPLO	0	1	0	0	
								SIAB	1	0	1	0	
								VUOL	1	0	0	0	
								OPPO	4	0	0	0	
								BOGR	4	2	3	4	
								THTR	0	1	1	2	
								CAME	30	15	3	20	
								ARLO	1	0	1	0	
ESA				D	1	5	6	SIAB	0	0	1	1	
								BOGR	0	1	2	4	
								SPLO	2	0	0	1	
								ARLO	0	0	0	1	
								CAME	30	30	30	40	
								ELVI	0	3	0	0	
ESA				D	1	5	7	PIOP	2	0	0	0	
								SPLO	1	0	0	0	
								OPPO	0	0	0	20	

Recorder C. Carter, W. McBride
Data Entered By _____

Date of Collection 8.10.05

[illegible]

Recorder J. Pelzer, B. Glick
Data Entered By _____Page 16 of 20
Date of Collection 8/10/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	4	1	OPPO	2	8	0	0	
								SPCO	6	3	2	0	
								BOGR	2	1	3	1	
								STCO	1	2	2	2	
								CAHE	10	0	2	5	
ESA		8	05	D	1	4	2	SAIB	1	3	1	0	
								THTR	0	1	0	0	
								CAHE	0	4	2	0	
								STCO	0	1	1	0	
ESA		8	05	D	1	4	3	STCO	1	1	1	2	
								SAIB	1	4	3	3	
								THTR	2	0	0	0	
								ROSC	0	1	0	0	
								PLPA	1	0	0	0	
								BOGR	2	0	0	0	
								CAHE	4	0	0	2	
								SPCO	1	0	0	0	
								GACO	1	0	0	0	

Page 11 of 20
Date of Collection 8/16/05

Quarter Plot

[illegible]

Recorder J. Lehar, B. Gley

Data Entered By _____

Page 12 of 20Date of Collection 8/10/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	4	6	OPPO	4	19	0	0	
								CAHE	30	30	13	8	
								CHLE	1	0	1	0	
								SAIB	2	0	3	5	
								THTR	1	0	0	0	
								BOGR	1	1	1	1	
								SPCO	0	2	2	0	
ESA		8	05	D	1	4	7	SAIB	0	0	1	1	
								CHLE	1	0	1	2	
								BOGR	1	2	2	1	
								BYDA	1	0	0	0	
								CAHE	10	3	10	4	
								THTR	1	0	1	1	
								SPCO	0	0	0	1	
ESA		8	05	D	1	4	8	THTR	0	0	1	0	
								SAIB	1	0	1	1	
								CKME	1	1	0	0	
								VUOC	2	0	2	2	
								BOGR	2	2	2	2	
								CAHE	6	3	3	2	

Recorder J. Pelmar, B. Gaby
Data Entered By _____Page 13 of 20
Date of Collection 8/10/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	4	9	STCO	1	2	2	1	
								OPPO	12	1	11	41	
								SPCR	2	0	0	0	
								THTR	0	2	0	1	
								BOGR	2	1	2	2	
								SAIB	1	1	0	0	
								CAHE	2	0	0	0	
ESA		8	05	D	1	4	10	STCO	3	2	2	2	
								CHLE	0	0	0	1	
								BOGR	1	1	2	1	
								SAIB	1	0	1	5	
								THTR	1	1	0	0	
								ECVI	0	0	3	0	
ESA		8	05	D	1	3	10	OPPO	0	7	9	8	
								STCO	0	0	0	1	
								CHLE	1	0	0	1	
								SPCO	1	3	1	1	
								BOGR	2	2	1	1	
								THTR	1	1	0	0	
								SAIB	0	2	0	0	

Recorder J. Leher, B. Gley
Data Entered By _____Page 14 of 20
Date of Collection 8/10/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	3	9	THTR	0	1	0	1	
								STCO	1	1	3	3	
								SPCO	3	0	0	2	
								BOGR	2	2	1	2	
								CAHE	2	2	0	4	
								VUOL	0	1	4	0	
								MATA	0	2	0	0	
								CHLE	0	0	1	0	
								SAIB	0	0	1	0	
								ARFR	0	0	1	0	
ESA		8	05	D	1	3	8	STCO	0	1	1		
								CHLE	2	1	0	1	
								BOGR	1	1	0	2	
								ARLO	0	0	0	1	
								THTR	1	0	1	0	
								SIHY	0	0	1	1	
								CAHE	2	0	4	4	
								SAIB	0	1	2	1	
								MILS	0	0	1	0	
								SPCO	0	0	1	0	

Recorder J. Pelmar, B. Ge-
Data Entered By _____Page 15 of 20
Date of Collection 8/14/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	3	7	BOGR	3	4	3	2	
								VUUC	2	0	0	0	
								CAHE	1	3	6	3	
								CHLE	1	0	0	1	
								SPCU	0	2	1	0	
								SAIB	0	1	0	0	
								LEDE	0	1	1	0	
ESA		8	05	D	1	3	6	OPPO	16	7	5	1	
								BOGR	2	2	2	2	
								SAIB	0	0	0	1	
								CAHE	6	6	9	2	
ESA		8	05	D	1	3	5	CHLE	0	0	0	0	
								SAIB	2	0	1	2	
								SPCU	4	4	7	7	
								VUUC	1	1	0	0	
								CAHE	7	5	6	8	
								BOGR	1	3	3	1	
								ECVI	0	1	2	0	
THTR									0	0	1	0	

Page 16 of 20
Date of Collection 8/10/05

Quarter Plot

[illegible]

Recorder J. Pelner, B. Gley

Data Entered By _____

Page 17 of 20Date of Collection 8/16/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	3	2	ARFR	1	0	0	1	
								MILI	2	0	0	0	
								CHLE	0	3	4	1	
								SECO	2	2	2	0	
								THTR	1	1	0	0	
								BOGR	2	2	2	1	
								CAHE	4	2	3	4	
								SAIB	3	0	6	2	
								ECVI	0	2	0	0	
								LEDE	0	1	0	0	
								ROSC	0	0	1	0	
								STCO	0	0	0	1	
ESA		8	05	D	1	3	1	STCO	1	1	0	2	
								CAHE	4	1	0	0	
								THTR	0	1	0	0	
								BOGR	1	2	2	0	
								SAIB	0	0	1	2	
								SIHY	0	0	1	0	
								SECO	0	0	0	1	

Recorder J. Pelmat, B. Gley

Data Entered By _____

Page 14 of 20Date of Collection 8/10/05

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	5	1	SRCU	2	8	0	3	
								SAIB	1	0	0	3	
								BOGR	2	3	3	2	
								CAHE	10	5	10	10	
								CHLE	0	0	2	4	
								OPPO	0	0	0	4	
ESA		8	05	D	1	5	2	OPPO	8	6	19	8	
								BOGR	3	1	1	2	
								CAHE	10	7	15	12	
								SIHY	0	1	0	0	
								ARFR	0	0	1	0	
								SRCU	0	2	1	2	
								SAIB	0	0	0	1	
ESA		8	05	D	1	5	3	SRCU	0	3	3	2	
								SAIB	2	7	3	1	
								THTR	1	2	1	1	
								BOGR	2	3	2	1	
								LEDE	0	0	1	0	

Recorder J. Pelhar + B. Gloy

Data Entered By _____

Page 19 of 20Date of Collection 8/1/15

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot				Notes
									1	2	3	4	
ESA		8	05	D	1	5	4	ECVI	2	0	0	0	
								SPCO	5	3	2	2	
								THTR	2	0	0	0	
								BOGR	1	0	2	1	
								CAHE	8	15	8	12	
								OPPO	0	9	3	7	
								SAIB	0	1	2	2	
								STCO	0	0	0	1	
ESA		8	05	D	1	5	5	OPPO	24	19	12	12	
								ARLO	0	1	0	0	
								SIHY	1	0	2	1	
								CAHE	3	10	2	1	
								BOGR	1	3	2	2	
								SAIB	0	2	2	0	
ESA		8	05	D	1	5	10	CHLE	1	0	0	0	
								SAIB	1	1	2	1	
								BOGR	2	2	2	1	
								CAHE	5	7	0	6	

THTR

STCO

0

0

1

0

2

0

1

PI – Dan Milchunas

Page 20 of 20
Date of Collection 8/10/05

Density

[illegible]

Recorder M. Hendrick, A. Amen

Data Entered By _____

Page 1 of 8Date of Collection 8/10/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		D	1	1	1	BARE	.	1	
								ACVI	.	1	
								OPPO	:	2	
								BOGR	.	1	
								LITT	::	5	
ESA		8-05		D	1	1	2	VUOC	.	1	
								SIAB	.	1	
								LITT	□	8	
ESA		8-05		D	1	1	3	CAHE	.	1	
								SPCO	.	1	
								BOGR	:	2	
								BARE	.	1	
								LITT	::	5	
ESA		8-05		D	1	1	4	CAHE	.	1	
								LITT	□	9	
ESA		8-05		D	1	1	5	CAHE	.	1	
								BOGR	.	1	
								SPCO	.	1	

LITT □ 7

Page 2 of 8
Date of Collection 8/10/05

Point Frame

[illegible]

Recorder A. Arment M. Hendrick
 Data Entered By _____

Page 3 of 8
 Date of Collection 8/10/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		D	1	2	9	BOGR	∴	4	
								LITT	∴	6	
ESA		8-05		D	1	2	8	BOGR	∴	3	
								LITT	☐	7	
ESA		8-05		D	1	2	7	CAHE	°	1	
								LITT	☐	9	
ESA		8-05		D	1	2	6	CAHE	°	1	
								BOGR	∴	2	
								LITT	☐	7	
ESA		8-05		D	1	2	5	CAHE	°	1	
								BOGR	°	1	
								LITT	☐	8	
ESA		8-05		D	1	2	4	BOGR	∴	3	
								BUDA	°	1	
								THTR	°	1	
								LITT	∴	5	
ESA		8-05		D	1	2	3	BARE	∴	3	
								BUDA	∴	2	
								CAHE	∴	2	
								LITT	∴	3	

Recorder A. Amen + M. HendrickData Entered By Page 4 of 8Date of Collection 8/10/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		D	1	2	2	LITT	☒	10	
ESA		8-05		D	1	2	1	BARE	°	3	
								CAHE	°	1	
								BOGR	°	3	
								LITT	°	3	
											
ESA		8-05		D	1	3	1	BARE	:	2	
								STCO	°	1	
								BO	:	2	
								LITT	°	5	
ESA		8-05		D	1	3	2	LITT	☒	10	
ESA		8-05		D	1	3	3	CRME	::	4	
								BOGR	°	1	
								SPCO	°	1	
								LITT	::	4	
ESA		8-05		D	1	3	4	BOGR	::	3	
								ECVI	°	1	
								LITT	~	6	

Recorder M. Hendrick, A. Aronson

Data Entered By _____

Page 3 of 8Date of Collection 8/10/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		D	1	3	5	CAHE	.	1	
								BOGR	.	1	
								ECVI	.	1	
								LITT	1	7	
ESA		8-05		D	1	3	6	BOGR	.	1	
								OPPO	..	2	
								CAHE	.	1	
								LITT	1	6	
ESA		8-05		D	1	3	7	BOGR	..	4	
								ARLO	.	1	
								LITT	1	5	
ESA		8-05		D	1	3	8	BARE	.	1	
								BOGR	..	3	
								SPCO	:	2	
								LITT	1	4	
ESA		8-05		D	1	3	9	BOGR	..	2	
								LITT	1	8	
ESA		8-05		D	1	3	10	OPPO	.	1	

CAHE . 1
 SPCO . 1
 BOGR . 1
 LITT 1 6

Recorder A. Ament M Hendrick
 Data Entered By _____

Page 6 of 8
 Date of Collection 8/10/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		D	1	4	10	LITT		10	
ESA		8-05		D	1	4	9	BOGR		6	
								OPPO		1	
								LITT		3	
ESA		8-05		D	1	4	8	BARE		4	
								BOGR		1	
								LITT		5	
ESA		8-05		D	1	4	7	BUDA		2	
								LITT		8	
ESA		8-05		D	1	4	6	BOGR		1	
								BARE		1	
								LITT		8	
ESA		8-05		D	1	4	5	BOGR		2	
								BUDA		3	
								LITT		5	
ESA		8-05		D	1	4	4	BOGR		4	
								STCO		1	
								LITT		5	

Recorder A. Amen + M. Hendrick

Data Entered By _____

Page 7 of 8Date of Collection 8/10/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		D	1	4	3	BARE	••	5	
								ARLO	•	1	
								BOGR	•	1	
								3	••	LITT	
ESA		8-05		D	1	4	2	BARE	••	5	
								LITT	••	5	
ESA		8-05		D	1	4	1	SPCO	•	1	
								LITT	□	9	
ESA		8-05		D	1	5	5	ARLO	•	1	
								LITT	□	9	
ESA		8-05		D	1	5	4	BOGR	•	1	
								STCO	•	1	
								LITT	□	8	
ESA		8-05		D	1	5	3	CRME	••	5	
								LITT	•	1	
								BARE	••	4	
ESA		8-05		D	1	5	2	ECVI	•	1	

OPPO • 1
LITT □ 8

Recorder M. Hendrick, A. Amen

Data Entered By _____

Page 8 of 8Date of Collection 8/10/05

Point Frame

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Basal Dots	Cover Count	Notes
ESA		8-05		D	1	5	1	ECVI	°	1	
								BOGR	::	4	
								LITT	::	5	
ESA		8-05		D	1	5	6	BOGR	°	1	
								CAHE	°	1	
								LITT	⌈⌋	8	
ESA		8-05		D	1	5	7	BOGR	°	3	
								BADA	°	1	
								BARE	°	1	
								LITT	::	5	
ESA		8-05		D	1	5	8	BARE	°	2	
								BOGR	°	1	
								LITT	⌈⌋	7	
ESA		8-05		D	1	5	9	BOGR	⌈⌋	3	
								CAHE	°	1	
								LITT	::	6	
ESA		8-05		D	1	5	10	BOGR	°	2	
								SIAB	°	1	
								ARLO	°	1	
								LITT	::	6	