ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D - Density
✓ = Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		E	1	4	∅	1	STCO	3	3	3	2	
									SPCO	1	1	2	1	
									SAMB	1	∅	∅	∅	
									ECVI	∅	1	∅	∅	
ESA	D	07/03		E	1	4	∅	2	STCO	2	2	3	2	
									~~BOGR~~	~~✓~~	~~∅~~	~~✓~~		
									LYJU	∅	1	∅		
									SAMB	∅	1	∅		
ESA	D	07/03		E	1	4	0	3	TCO	1	3	1	4	
									LYJU	1	∅	∅	∅	
									SAMB	1	2	1	∅	
									~~BOGR~~	~~∅~~	~~✓~~	~~✓~~	~~✓~~	
									CAHC	∅	∅	8	3	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder James Weaver

Data Entered By_____

Date of Collection 7/22/03

D. Dawn
V. Prescott

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	E	1	4	ϕ		9	BOGR	✓	✓	✓	✓	
									STCO	1	ϕ	1	1	
									THTR	2	2	ϕ	1	
									CAHE	25	15	8	22	
									CAHE	ϕ	ϕ	1	ϕ	
									SAEB	ϕ	3	3	1	
ESA	D	07/03	E	1	4	1		0	ARFR	1	ϕ	ϕ	ϕ	
									SPCO	1	ϕ	ϕ	ϕ	
									BOGR	✓	✓	ϕ	✓	
									SAEB	1	3	2	1	
									STCO	1	ϕ	3	1	
									LIJU	1	ϕ	1	ϕ	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

D - Density
J - Presence

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	E	1	4	ø		6	BOGR	✓	✓	✓	✓	
									SAZB	3	4	3	3	
									SPCO	2	1	3	1	
									CAHE	16	4	7	ø	
									THTR	2	3	3	1	
ESA	D	07/03	E	1	4	ø		7	BOGR	✓	✓	✓	✓	
									SAZB	1	ø	ø	1	
									SPCO	1	2	3	1	
									STCO	1	ø	ø	3	
									CAHE	4	15	15	5	
ESA	D	07/03	E	1	4	ø		8	STCO	2	ø	1	2	
									SAZB	3	1	1	3	
									BOGR	ø	✓	✓	✓	
									CAHE	5	15	21	12	
									SPCO	ø	1	ø	ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder [illegible]
Data Entered By_____

Date of Collection 7/22/03

D – Density
V – Vigor

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	E	1	4	ϕ		4	ARFR	1	ϕ	ϕ	ϕ	
									BOGR	✓	✓	✓	✓	
									THTR	ϕ	1	ϕ	ϕ	
									OPPO	ϕ	5	ϕ	ϕ	
									CAHE	20	30	18	32	
									KOSC	ϕ	1	ϕ	ϕ	
									STCO	ϕ	ϕ	ϕ	1	
									SAAB	ϕ	ϕ	ϕ	1	
									CHLE	ϕ	ϕ	ϕ	1	
ESA	D	07/03	E	1	4	ϕ		5	THTR	2	1	3	3	
									SPCO	2	1	ϕ	ϕ	
									BOGR	✓	ϕ	✓	✓	
									SAAB	2	6	4	ϕ	
									ARLO	ϕ	1	ϕ	1	
									STCO	1	1	ϕ	ϕ	
									CHLE	ϕ	ϕ	1	1	
									KOSC	ϕ	1	ϕ	ϕ	
									CAHE	12	7	18	5	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Vogel
Data Entered By_____

Date of Collection 7.22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	E	1	1		1	Spco	1	-	-		
									Stco	1	1	1	3	
									Thtr	1		-	-	
									Sal	-	1	-	-	
									Ecve	-	-	2	3	
ESA	Density	July	2003	E	1	1		2	Thtr	6	-	3	3	
									Stco	1	1	-	-	
									Artr	-	1	-	-	
									Oppo	-	7	4	16	
									Gahe	-	4	6	2	
ESA	Density	July	2003	E	1	1		3	Gab	-	1	-	-	
									Thtr	20	-	5	15	
									Sihy				1	
									Sal	3	3	1	-	
									Spco	-	-	3	-	
ESA	Density	July	2003	E	1	1		4	Chle	1	1	-	1	
									Mal	-	-	1	1	
									oppo	-	-	6	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B Vanzel
Data Entered By_____

Date of Collection 7-22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
								Lahe	6	3	10	5	
								Sa.b	1	1	-	1	
								Sihy		1			
ESA	Pensly	July 2003	E	1	1		5	Spco	1	1	1	1	
								Sa.b	-	1	1	-	
								Chle	-	-	1	1	
								Lahe	15	20	18	22	
								Arlo	-	-	1	-	
ESA	Pensly	July 2003	E	1	1		6	Sa.b	2	1	-	1	
								Spco	2	1	1	2	
								Sihy	-	-	1	-	
								Lahe	8	10	12	2	
ESA	Pensly	July 2003	E	1	1		7	Sa.b	3	1	-	-	
								Lahe	2	11	6	5	
								Sihy	1	1	1	-	
ESA	Pensly	July 2003	E	1	1		8	Chgl			4		
								Sa.b	-	4	3	1	
								Stco	2				

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Voegel
Data Entered By

Date of Collection 7-[illegible]

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
									Sihy	1	-	-	-	
									Cahe	7	1			
									Stco	1	-	1	1	
									Bogr	✓	✓	✓	✓	
ESA	Rmk	July 2003	E	1	1			9	Sa.b	1	-	-	-	
									Spco	-	-	1	1	
									Cahe	10	12	12	10	
									M.l.	-	-	-	1	
									Spcr			✓		
									Bogr		✓	✓		

D=Density

ARS Study #3 (ESA) PI – Dan Milchunas

V = Present

NP = Not Present

Recorder B. Grady

Data Entered By

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	July	2003	E	1	3		9	PSTE	Ø	Ø	Ø	1	
									SPCO	Ø	2	Ø	Ø	
									STCO	1	1	2	1	
									THTR	Ø	Ø	1	1	
									CAHE	37	26	11	29	
									~~BOGR~~	~~✓~~	~~✓~~	~~NP~~	~~✓~~	
ESA	D	July	2003	E	1	5		10	STCO	3	2	2	3	
									THTR	Ø	1	2	3	
									SAIB	Ø	Ø	1	3	
									~~BURA~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	
									~~BOGR~~	~~NP~~	~~NP~~	~~✓~~	~~NP~~	
								9	SAIB	9	8	6	5	
									ARFR	Ø	1	1	Ø	
									CHAL	8	6	5	10	
									STCO	1	1	Ø	1	
									SPCO	Ø	1	Ø	Ø	
									ECVI	Ø	1	1	Ø	

D=Density

4	1
3	2

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Grady
Data Entered By_____

✓=Present
NP = Not Present

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	July	2003	E	1	3		1	SATB	1	1	Ø	2	
									SPCO	3	1	2	1	
									STCO	1	1	1	2	
									BOGR	✓	✓	✓	NP	
									BUDA	✓	✓	✓	NP	
								2	ARFR	1	1	1	1	
									SAIB	Ø	3	Ø	Ø	
									SPCO	4	Ø	Ø	Ø	
									BOGR	✓	NP	NP	NP	
									CAHE	Ø	Ø	Ø	1	
									STCO	Ø	1	3	1	
								3	SPCO	1	2	Ø	3	
									STCO	3	4	4	2	
									OPPO	Ø	1	1	Ø	
									PSTE	Ø	Ø	Ø	2	

D=Density

ARS Study #3 (ESA) PI – Dan Milchunas

V=Present
NP=Not Present

Recorder B. Grady
Data Entered By

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	July	2003	E	1	3	4	OPPO	9	Ø	Ø	Ø	
								SAIB	1	1	Ø	1	
								STCO	4	2	1	1	
								CAHE	33	32	43	61	
							5	STCO	5	2	3	3	
								SPCO	2	1	Ø	1	
							6	STCO	3	2	1	5	
								SPCO	Ø	1	1	Ø	
							7	SAIB	Ø	2	Ø	Ø	
								THTR	2	Ø	Ø	Ø	
								STCO	Ø	2	1	2	
								CAHE	17	27	14	7	
								SIHY	Ø	1	Ø	Ø	
								~~BOGR~~	✓	✓	✓	✓	
							8	STCO	2	2	1	1	
								SIHY	1	1	Ø	Ø	
								SAIB	Ø	1	3	Ø	
								~~BOGR~~	✓	✓	✓	✓	
								CAHE	Ø	Ø	23	31	
								THTR	1	Ø	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/22/07

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den.	07	03	E	1	0	2	1	THTR	1	3	2	3	
									OPPO	14	5	15	4	
									BOGR	✓	✓	✓	✓	
									SAIB	1	1	—	1	
									SPCO	1	1	4	—	
						0	2	2	CHLE	—	—	1	1	
									ARFR	1	—	—	—	
									LYJU	—	—	—	1	
									SPCO	3	—	—	—	
									BOGR	—	—	✓	—	
									SAIB	6	6	1	1	
									CAHE	8	7	6	9	
									ARLO	—	—	1	—	
									SIHY	—	—	1	1	
									ECVE	—	1	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	E	1	0	2	3	BOGR	✓	✓	✓	✓	
									STCO	2	–	–	1	
									ARLO	–	–	1	–	
									SAIB	–	1	–	1	
									SPCO	–	–	3	–	
									CAHE	8	12	19	23	
						0	2	4	SPCO	4	2	4	5	
									STCO	–	–	2	–	
									LIPU	–	6	–	–	
						0	2	5	ARFR	1	–	–	2	
									SPCO	–	–	1	–	
									STCO	–	1	–	–	
									BOGR	✓	✓	–	–	
						0	2	6	CHLE	1	–	–	–	
									SPCO	–	–	2	–	
									SAIB	1	2	–	1	
									STCO	2	–	1	1	
									BOGR	✓	✓	✓	✓	
									CAHE	3	12	9	11	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	E	1	0	2	7	STCO	2	2	1	2	
									CAHE	18	9	12	5	
									~~BOGR~~	~~–~~	~~–~~	~~–~~	✓	
						0	2	8	SPCO	–	–	2	–	
									ARFR	3	–	1	1	
									SAIB	1	–	–	1	
									STCO	–	2	–	–	
									SIHY	–	–	–	2	
						0	2	9	STCO	–	–	2	3	
									ARFR	–	–	1	–	
									SAIB	5	–	1	1	
									CAHE	27	17	3	11	
						0	2	10	SPCO	3	–	–	3	
									STCO	1	1	3	3	
									CAHE	9	13	6	4	
									SAIB	1	–	–	–	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gayford
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	E	1	0	1	10	SIHY	1	—	—	—	
									CAHE	4	5	8	24	
									SAIB	—	1	2	4	
									SPCO	—	—	—	1	
									LYJU	—	1	—	—	
						0	3	10	SAIB	3	1	4	4	
									ARFR	—	—	1	—	
									SPCO	4	—	1	—	
									SIHY	1	—	—	—	
									CAHE	5	11	3	7	
									BOGE	—	✓	✓	—	
						0	5	6	SAIB	—	1	—	1	
									STCO	1	—	—	—	
									CAHE	12	18	9	21	
						0	5	7	SAIB	2	—	1	—	
									SPCO	—	5	—	4	
									CAHE	23	19	11	36	
									OPPO	—	2	1	—	—
									ARLO	—	1	—	—	—

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder_____ Page 22 of 25

Data Entered By Adam Gaylord Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
EAS	Den	07	03	E	1	0	5	5	SAIB	8	6	6	4	
									THTR	1	2	—	—	
									STCO	—	1	—	1	
									CAHE	—	—	—	12	
									SIHY	1	—	—	—	
									~~BUDA~~	~~—~~	~~✓~~	~~—~~	~~—~~	
									~~BOGR~~	~~✓~~	~~—~~	~~—~~	~~—~~	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B Vargas
Data Entered By

Date of Collection

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Bay	July		E	1	5		8	Yarr	1	–	–	–	
									Sal	–	1	5	3	
									Spec	1	1	1	2	
									Bay	✓	✓	✓	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/03

D-Density
1/

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	E	1	5	ø	1	ARPP	1	ø	ø	ø	
									BOGR	✓	✓	✓	✓	
									SPCO	1	2	ø	1	
									[illegible]	1	1	ø	2	
									[illegible]	20	30	18	12	
									MIIC	ø	1	ø	ø	
									STCO	ø	ø	ø	2	
									LEPU	ø	ø	ø	1	
ESA	D	07	03	E	1	5	ø	2	STCO	ø	1	2	ø	
									THIR	ø	3	ø	1	
									BOGR	✓	✓	✓	✓	
									CAHE	ø	ø	5	10	
ESA	D	07	03	E	I	5	ø	3	SIHY	1	ø	ø	ø	
									SPCO	1	ø	ø	ø	
									BOGR	✓	ø	ø	ø	
									STCO	3	3	2	1	
									LEDE	ø	ø	1	ø	
									SAIB	ø	ø	ø	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

D-Density
V-Percent

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		E	1	5	0	4	SPCO	1	∅	∅	2	
									SIMY	1	∅	∅	∅	
									ARFR	∅	1	∅	1	
									CAHE	15	∅	20	10	
									BOGR	✓	∅	✓	✓	
									SAZB	∅	4	4	1	
									KOCL	∅	∅	2	∅	
									C. vulbis	∅	∅	1	∅	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-22-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		G	1	2		3	Oppo	6	3	0	0	
									Arfr	1	0	0	2	
									Spco	0	2	4	1	
									Cahe	9	15	10	2	
									Arlo	0	0	1	1	
									lich	5	2	6	8	
									Thtr	0	0	1	0	
									Ecvi	1	0	0	0	
									~~Bogr~~	✓	✓	✓	✓	
									Saib	0	0	2	2	
									Lede	0	0	0	1	
ESA		7-03		G	1	2		4	Saib	3	4	1	2	
									Spco	2	6	0	4	
									~~Bogr~~	✓	✓	✓	✓	
									Kosc	1	0	0	0	
									Lede	1	0	0	0	
									Cahe	7	6	2	7	
									lich	3	9	12	8	
									Vuoc	0	1	0	0	
									Siny	0	0	1	0	
									~~Boda~~	~~0~~	~~0~~	✓	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-22-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		D	1	2		1	Spco	2	0	0	0	
									Arlo	1	0	0	1	
									Ecvi	2	1	0	3	
									Cahe	40	27	15	13	
									~~Bogr~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	
									Sihy	0	1	0	0	
									Thtr	0	0	1	0	
ESA		7-03		D	1	2		2	Thtr	3	0	2	3	
									Saib	3	1	1	1	
									~~Bogr~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	
									Cahe	7	10	5	2	
									Arfr	0	0	1	0	
									Ecvi	0	0	1	1	
									Spco	0	0	0	1	
									lich	0	0	1	8	
									Arlo	0	0	0	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-22-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		G	1	2		5	Ecvi	0	4	0	0	lots of
									Spco	7	4	7	0	Bare ground
									Saib	1	1	0	0	in quad #4
									Sihy	0	0	0	1	
									Kosc	1	0	0	0	
									Cahe	22	25	45	20	
									~~Bogr~~	~~0~~	~~✓~~	~~✓~~	~~0~~	
									Crja	0	0	1	0	
ESA		7-03		G	1	2		6	Kosc	2	1	0	0	
									Cahe	37	15	40	65	
									Spco	1	0	0	0	
									~~Bogr~~	~~0~~	~~✓~~	~~✓~~	~~✓~~	
ESA		7-03		G	1	1		1	Thtr	4	9	3	2	
									Spco	2	1	1	1	
									Oppo	0	13	14	2	
									Saib	1	0	1	0	
									~~Bogr~~	~~✓~~	~~✓~~	~~0~~	~~✓~~	
									Cahe	5	3	2	7	
									Sihy	0	0	0	1	
									Arlo	0	0	1	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkerstorfer

Page 11 of 27

Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	D	1	4		8	DIPA	0	0	1	0	
									THTR	0	1	0	0	
									LEDE	1	0	0	0	
									SAIB	1	0	0	0	
									SIHY	0	1	0	1	
									CAHE	25	15	12	15	
									OPPO	0	0	3	0	
									VUOC	0	1	0	0	
ESA		7	03	D	1	1		10	AREF	1	1	1	0	
									THTR	0	0	0	1	
									ARFR	0	0	0	1	
									SAIB	1	1	1	0	
ESA		7	03	D	1	1		9	SPCO	1	1	0	0	
									OPPO	16	4	0	0	
									THTR	0	0	1	0	
									SAIB	0	1	0	1	
									SIHY	1	2	1	3	
									VUOC	0	5	0	0	
									~~BOGR~~	~~✓~~	~~0~~	~~0~~	~~✓~~	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkenstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	D	1	4		1	SPCO	4	1	1	4	
									CAHE	30	40	50	33	
									SAIB	0	0	1	0	
									STCO	0	0	1	0	
ESA		7	03	D	1	4		2	STCO	0	1	0	1	
ESA		7.03		D	1	4		3	SAIB	0	1	0	0	
									STCO	0	0	0	1	
									ARIO	0	0	1	0	
									ARFR	0	0	1	0	
									CAHE	0	0	3	0	
ESA		7.03		D	1	4		4	CRJA	3	0	0	1	
									OPPO	2	0	6	3	
									SIHY	1	1	2	1	
									CAHE	10	17	15	7	
									STCO	0	0	0	1	
									ARIO	0	0	1	1	
									SAIB	1				

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkerstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7.03		D	1	4		5	OPPO	14	8	5	6	
									ECVI	0	0	1	0	
									ARID	1	1	1	0	
									SPCO	0	0	1	0	
									CAHE	23	16	4	12	
									THTR	1	1	1	0	
ESA		7.03		D	1	4		6	SAIB	1	0	0	0	
									CAHE	27	32	48	28	
									OPPO	2	0	0	0	
									THTR	0	0	2	0	
									SIHY	0	1	0	1	
ESA		7.03		D	1	4		7	CHLE	0	1	0	1	
									SIHY	0	1	0	0	
									CAHE	25	30	30	22	
									KOSC	0	10	17	13	
									BOER	✓	✓	0	✓	
ESA		[illegible]		[illegible]	1	4		[illegible]						

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B Vogel
Data Entered By

Date of Collection 7-22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	3	1	D		1	Thtr	0	3	2	0	
									Artr	1	0	0	0	
									Stco	0	0	1	0	
									Sa16	0	0	1	0	
									Sihy	0	0	1	2	
									~~Bogr~~	~~0~~	~~✓~~	~~✓~~	~~✓~~	
ESA	Density	July	2003	3	1	D		2	Ciab	0	1	0	0	
									Sihy	0	1	0	0	
									Artr	0	0	1	0	
									Chle	0	0	0	1	
									~~Bogr~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	
									Spco	3	0	0	0	
									Thtr	0	2	2	0	
									Ecte	2	0	0	0	
									Mli	0	0	0	1	
									Dypo	0	0	0	1	
ESA	Density	July	2003	3	1	D		3	Crsa	0	3	0	1	
									Sa16	1	0	2	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B Vogel
Data Entered By

Date of Collection 7-22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
								3 cont'd	Spco	1	0	0	0	
									Bogr	✓	✓	✓	0	
ESA	Density	July	2003	3	1	D		4	Plpa	2	0	0	0	
									Elve	1	0	0	0	
									Oppo	0	8	11	0	
									Saib	0	0	1	3	
									spco	0	1	0	2	
									Lede	0	0	0	1	
									Vuoc	0	0	1	0	
									Bogr	✓	✓	✓	✓	
ESA	Density	July	2003	3	1	D		5	Chle	1	1	1	0	
									Saib	0	0	1	1	
									Spco	2	1	1	6	
									Elve	1	0	0	0	
									Bogr	✓	✓	✓	✓	
ESA	Density	July	2003	3	1	D		6	Oppo	4	7	6	10	
									Bogr	✓	✓			
									Cahe	19	25	14	20	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Vogel
Data Entered By

Date of Collection 7-22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	3	1	D		7	Spco	1	1	0	0	
									Bogr	✓	✓	✓	✓	
									Arlo	2	0	0	0	
									Bida	✓	✓	0	0	
									Bahe	2	3	2	0	
									Lede	0	0	1	0	
ESA	Density	July	2003	3	1	D		8	chle	0	0	0	1	
									Bogr	✓	✓	✓	✓	
									Sa.b	1	1	1	2	
									Cahe	0	7	4	4	
									Stco	1	0	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Rutering
Data Entered By_____

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	D	1	5	0	6	SAIB	1	2	1	1	
									CAHE	10	15	7	12	
									BOGR	✓	✓	✓	✓	
									ARLO	0	1	3	1	
									ECUI	2	0	0	0	
									SPCO	0	3	0	0	
									SIHY	0	0	1	0	
						5	0	7	BOGR	✓	✓	✓	✓	
									CAHE	10	10	3	5	
									SPCO	1	1	0	1	
									LIPU	0	1	1	0	
									THTR	0	1	0	0	
									SAIB	0	0	1	0	
									OPPO	0	3	5	0	
									ARLO	0	2	1	0	
									UUOL	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Rattray
Data Entered By_____

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	D	1	5	0	8	SAIB	1	1	0	1	
									BOGR	✓	✓	✓	✓	
									CRHE	10	5	5	15	
									SPCO	1	2	1	1	
						5	0	9	THTR	3	0	5	3	
									BOGR	✓	✓	✓	✓	
									ECUI	1	1	2	0	
									SPCO	0	0	1	0	
									SIHY	0	0	1	1	
									SAIB	0	0	0	1	
						5	1	0	SAIB	1	1	1	0	
									THTR	0	0	0	1	
									ARLO	1	1	1	1	
									BOGR	✓	✓	✓	✓	
									SPCR	0	0	1	0	
									ECUI	0	1	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	DNS	07	03	D	1	4	1	0	SAIB	0	0	0	2	
									ARFR	0	1	2	0	
									SIHY	1	0	0	0	
									CRJA	0	1	0	0	
									STCO	0	1	2	0	
									EREF	0	0	1	0	
									ARLO	1	1	0	0	
									SPCR	1	0	0	0	
									ECUI	1	0	0	0	
						4	0	9	ARLO	0	2	0	2	
									BOGR	✓	✓	✓	✓	
									SPCR	0	1	1	0	
									OPPO	0	13	13	12	
									STCO	0	0	0	1	
									THTR	0	1	0	0	
									CAHE	2	2	5	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	DENS	07	03	D	1	3	1	0	SPCO	1	1	1	1	
									BOGR	✓	✓	✓	✓	
									CHLE	0	1	0	0	
									OPPO	0	7	0	5	
									THTR	0	0	0	2	
									ARLO	0	0	1	1	
									SIHY	0	0	1	0	
						3	0	9	ARFR	1	0	0	0	
									CHLE	0	1	1	1	
									THTR	1	0	3	0	
									BOGR	✓	✓	✓	✓	
									SPCO	0	1	2	0	
									VUOC	2	0	0	5	
									SAIB	0	0	1	0	
									ARLO	0	0	1	1	
									GACO	1	0	0	0	
									CAHE	2	0	1	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D-Density
✓- Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	D	1	2	0		8	SIHY	1	ϕ	ϕ	ϕ	
									OPPO	ϕ	4	ϕ	ϕ	
									BOGR	✓	✓	✓	✓	
									CAHE	ϕ	15	ϕ	ϕ	
									CHLE	ϕ	ϕ	1	ϕ	
									ECVI	ϕ	ϕ	1	ϕ	
									SAIB	ϕ	ϕ	ϕ	1	
									PACH	ϕ	ϕ	ϕ	20	
ESA	D	07/03	D	1	2	0		7	CAHE	55	30	60	ϕ	
									SAIB	ϕ	1	1	ϕ	
									ARFR	ϕ	1	ϕ	ϕ	
									~~OPPO~~	~~ϕ~~	~~5~~	ϕ	ϕ	
									SIHY	ϕ	ϕ	ϕ	1	
										1	3			

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D-Density
✓-Presence

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	D	1	2	1		0	ARFR	1	∅	∅	∅	
									THTR	1	1	∅	∅	
									OPPO	8	3	5	7	
									PACH	5	10	2	2	
									BOGR	✓	✓	✓	✓	
									SPCO	∅	1	∅	∅	
									ARLO	∅	∅	∅	1	
ESA	D	07/03	D	1	2	0		9	SIHY	1	∅	∅	∅	
									ARLO	∅	1	3	1	
									SPCO	1	∅	∅	∅	
									BOGR	✓	✓	✓	✓	
									SAID	∅	1	∅	1	
									CAHE	∅	10	5	5	
									ECUF	∅	6	1	∅	
									KOSC	∅	∅	∅	2	
									PACH	∅	10	5	10	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D - Density
J - Prairie

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	D	1	5	0	3	SAID	3	2	1	2	
								BOGR	✓	✓	✓	✓	
								THTR	2	2	∅	2	
								SPCO	∅	3	3	∅	
ESA	D	07/03	D	1	5	0	4	STCO	3	1	∅	∅	
								ECVI	∅	2	1	∅	
								SPCO	1	∅	∅	1	
								BOGR	✓	✓	✓	✓	
								PACH	∅	∅	5	10	
								SAID	∅	1	1	∅	
								CAHE	∅	5	5	5	
ESA	D	07/03	D	1	5	0	5	THTR	1	∅	1	∅	
								OPPO	11	8	4	23	
								STHY	1	1	∅	∅	
								ARLO	1	1	1	∅	
								BOGR	∅	✓	✓	✓	
								SAID	∅	∅	2	∅	
								LEDE	∅	∅	∅	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D - Density
✓ - Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	D	1	5	ϕ	1	CHLE	1	ϕ	ϕ	ϕ	
									SPCO	2	2	2	2	
									BOGR	✓	✓	✓	✓	
									CAHE	15	20	20	20	
									SAIB	ϕ	1	ϕ	ϕ	
									OPPO	ϕ	ϕ	3	ϕ	
ESA	D	07	03	D	1	5	ϕ	2	SIHY	1	ϕ	ϕ	ϕ	
									BOGR	✓	✓	✓	✓	
									CHLE	1	ϕ	1	ϕ	
									CAHE	10	15	10	10	
									OPPO	4	11	ϕ	5	
									THTR	2	1	ϕ	ϕ	
									PACH	5	ϕ	ϕ	ϕ	
									ARFR	ϕ	1	ϕ	ϕ	
									SPCO	ϕ	ϕ	1	3	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jocil
Data Entered By_____

Date of Collection 7/22/3

SAB
KOSC
CAHE
STCO
CHAB

SIHY
KOVI CONES
ECVI LINGS
VUOC

Density

Quarter Plot

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	1	2	3	4	Notes
ESA	Den	7	2003	D1	1	1		2	CAHE	1	—	—	3	Some Bare present all plots
									SPCO	—	2	—	—	
									SAIB	—	1	—	—	
									SIHY	—	—	3	—	
									ARFR	—	—	1	—	
									OPPO	—	—	1	3	
									STCO	—	—	—	1	
									SPKO	—	—	—	1	
								3	SPKO	3	2	1	5	
									CAHE	8	2	3	20	
									STCO	—	1	—	—	
									ARLO	—	1	—	—	
									VUOC	—	2	—	—	
									SIHY	—	—	—	—	
									LICH	—	12	—	15	
									OPPO	—	—	6	—	
									ECVI	—	—	1	—	
									ARFR	—	—	—	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder A Shulhon
Data Entered By_____

Date of Collection 7/22/03

Density

DRAFT

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	7	2003	D1	1	1		4	SPCO	1	1	1	4	BOGR PRESENT
									CAHE	16	19	20	15	all plots
									OPPO	—	—	7	—	
								5	LICH	1	—	—	—	
									ARFR	1	—	—	1	
									SAIB	1	1	—	—	
									CAHE	9	1	6	6	
									SIHY	1	—	—	—	
									SPCO	—	1	3	4	
								5	BOGR	✓	✓	✓	✓	
									BUDA	—	—	✓	✓	
								6	CHLE	1	—	+	1	
									SPCO	1	6	—	2	
									CAHE	18	—	5	16	
									BOGR	✓	✓	✓	✓	
									KOVI	—	3	—	—	
									SAIB	—	1	1	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder A. Shulhon
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	DEN	7.	2003	D1	1	1		7	CAHE	15	6	3	6	
									BOGR	✓	—	✓	✓	
									SAIB	1	—	—	1	
									STCO	1	—	—	—	
									SIHY	—	1	—	—	
									BUDA	—	✓	✓	✓	
									CHLE	—	1	—	—	
									ECV1	—	—	6	7	
									ARFR	—	—	1	—	
								8	THTR	1	1	—	—	
									BOGR	✓	✓	✓	✓	
									SIHY	1	—	—	—	
									SAIB	1	—	—	—	
									CAHE	—	4	4	—	
									LICH	5	10	5	20	
									ARCO	—	—	—	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-22-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		G	1	1		5	Siab	9	12	1	4	
									Kosc	21	30	42	33	
									Cahe	3	3	0	17	
									Stco	2	0	2	0	
ESA		7-03		G	1	1		6	Siab	4	2	2	10	
									Kosc	37	44	52	47	
									Cahe	3	5	1	3	
									Sihy	0	1	0	1	
ESA		7-03		G	1	1		7	Siab	1	1	0	1	
									Kosc	22	30	35	50	
									Cahe	18	3	7	4	
									Sihy	0	2	0	1	
									Spco	0	1	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laurajamison
Data Entered By_____

Page 8 of 22
Date of Collection 7-22-03

Density

caib

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		G	1	1		1	~~Sihy~~	—	—	—	—	
									Siab	1	6	0	1	
									Cahe	1	0	0	0	
									Stco	4	2	4	2	
ESA		7-03		G	1	1		2	Siab	4	6	5	4	
									Stco	4	4	1	4	
									Kosc	2	2	3	2	
									Cahe	19	12	4	3	
									Caib	0	0	1	0	
ESA		7-03		G	1	1		3	Siab	7	6	9	5	
									Kosc	14	36	32	20	
									Sihy	2	3	0	0	
									Cahe	4	7	4	10	
									Stco	0	0	1	0	
ESA		7-03		G	1	1		4	Siab	2	9	6	4	
									Kosc	25	26	18	16	
									Cahe	18	7	8	10	
									Sihy	0	2	5	0	
									Crja	0	0	1	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Vogel
Data Entered By_____

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	8	1	1		8	Kosc	40	30	9	22	
									Gria	0	0	1	1	
									Saib	0	0	3	0	
									Lahe	2	6	2	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Vogel
Data Entered By_____

Date of Collection 7-22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	G	1	2		1	Kosc	13	1	11	23	
									Sihy	0	1	0	0	
									Chle	1	0	1	0	
									Crja	0	1	1	0	
									Saib	5	4	2	0	
									Bogr	✓	✓	✓	✓	
ESA	Density	July	2003	G	1	2		2	Kosc	4	7	3	9	
									Sihy	3	0	0	0	
									Crja	0	2	1	0	
									Cahe	3	4	2	3	
									Saib	3	3	0	0	
									Arfr	1	0	0	2	
									Thfr	0	0	1	0	
ESA	Density	July	2003	G	1	2		3	Kosc	1	2	2	2	
									Saib	5	3	1	4	
									Cahe	6	17	6	12	
ESA	Density	July	2003	G	1	2		4	Saib	4	4	4	5	
									Kosc	0	0	1	3	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Vogel
Data Entered By_____

Date of Collection 7-22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
								4 cont'd	Cahe	8	13	8	9	
									Sihy	1	0	0	0	
ESA	Density	July	2003	6	1	2		5	Sa.b	4	5	6	4	
									Sihy	1	0	0	1	
									Cahe	12	18	5	9	
									Kosc	0	1	3	4	
									Spco	0	0	2	0	
ESA	Density	July	2003	6	1	2		6	Kosc	24	11	9	13	
									Sihy	0	0	1	0	
									Cahe	7	10	6	4	
									Sa.b	5	1	1	3	
									chle	0	0	1	0	
ESA	Density	July	2003	6	1	2		7	Kosc	8	7	4	9	
									Sa.b	5	4	3	2	
									Cahe	9	4	6	7	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Seth Ratering
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	6	1	5	0	6	KOSC	20	18	20	22	
									SPCO	2	2	1	4	
									SIHY	2	3	1	2	
									SAIB	6	2	0	0	
									CRJA	0	1	0	0	
						5	0	7	CAHE	25	30	5	10	
									SIHY	1	0	0	1	
									KOSC	15	7	20	15	
									SAIB	3	5	0	2	
									CRJA	1	0	0	1	
									CHAL	0	1	0	2	
						5	0	8	CAHE	8	2	5	5	
									SPCO	2	0	2	0	
									KOSC	7	10	5	10	
									SAIB	2	1	1	2	
						5	0	9	KOSC	30	10	20	15	
									CRJA	0	0	0	1	
									SAIB	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	6	1	5	1	0	STCO	2	0	1	0	
									KOSC	6	3	2	5	
									CHLE	1	0	0	0	
									SAIB	1	1	5	6	
						4	1	0	SAIB	10	12	10	5	
									KOSC	4	10	7	1	
									HEPU	0	1	0	0	
									CHLE	0	1	0	2	
									CAHE	0	5	0	5	
									STCO	1	0	1	1	
									SIHY	0	0	0	1	
						4	0	9	SAIB	7	3	6	4	
									KOSC	1	0	0	0	
									STCO	1	1	1	2	
						4	0	8	KOSC	7	12	10	6	
									CAHE	10	15	10	10	
									SAIB	2	4	2	3	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	G	1	4	0	7	KOSC	12	7	5	20	
									SAIB	5	3	4	2	
									CAHE	2	5	5	5	
									CRJA	1	1	2	2	
						4	0	6	KOSC	2	8	1	3	
									SAIB	5	3	2	8	
									CAHE	10	5	10	5	
									SIHY	0	1	1	1	
									CRJA	1	0	0	2	
									SPCR	0	1	0	0	
						3	1	0	KOSC	20	15	30	20	
									CHCE	0	5	2	4	
									STCO	1	1	0	3	
									HEPU	0	0	1	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Walkenstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7.	03	G	1	3		5	KOSC	18	46	50	9	
									SIAB	16	10	5	8	
									CAHE	2	4	3	9	
ESA		7.	03	G	1	3		6	CHLE	10	8	10	14	
									SIAB	6	10	6	8	
									KOSC	8	12	9	4	
ESA		7.	03	G	1	3		7	SIAB	12	5	2	1	
									CAGL	1	0	0	0	
									KOSC	7	7	12	14	
									CAHE	15	6	6	5	
									CRJA	0	0	1	0	
ESA		7	03	G	1	3		8	KOSC	65	130	125	90	

KOSC

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkerstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	G	1	3		1	SIAB	2	2	2	1	
									KOSC	6	5	8	17	
									STCO	1	0	0	1	
									CAHE	4	11	14	6	
ESA		7	03	G	1	3		2	SIAB	3	2	4	1	
									KOSC	9	4	2	5	
									CRJA	0	0	2	0	
									SIHY	1	0	0	0	
									CHLE	0	0	1	1	
									SPCO	3	0	0	0	
ESA		7	03	G	1	3		3	KOSC	30	11	5	11	
									SIAB	5	2	3	4	
									CAHE	5	3	4	0	
									SPCO	1	0	0	1	
ESA		7.03		G	1	3		4	KOSC	39	16	21	27	
									SIAB	3	6	3	2	
									CAHE	10	8	0	4	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder April Shelhon
Data Entered By_____

Date of Collection 22 July 2003

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	7.	2003	G	1	4		1	SAIB	19	11	14	30	
									KOSC	4	4		2	
									ARFR	—	2	—	—	
									STICO	—	—	4	4	
									CAHE	—	—	—	1	
								2	SAIB	9	12	4	4	
									KOSC	3	1	2	—	
									SPICO	—	1	—	—	
									ARFR	—	—	1	—	
									CRJA	—	—	—	1	
								3	SAIB	4	8	8	7	
									STICO	8	3	8	4	
									CAHE	6	6	1	5	
									KOSC	—	4	5	1	
								4	SAIB	6	4	6	1	
									KOSC	—	—	1	7	
									STICO	2	—	—		
									ARFR	1	—	—		
									CAHE	4	5	4	8	
									SIHY		1	—	1	
									CHLE			1		

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder April Shelton
Data Entered By_____

Page 13 of 22
Date of Collection 22 July 2003

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den.	7.	2003	G	1	4		5	SAIB	5	1	3	2	
									KOSC	8	3	23	49	
									STCO	—	—	—	—	
									SIHY	2	—	—	—	
									CHLE	1	1	1	—	
									CAHE	8	8	9	8	
						3		9	STCO	2	1	1	—	
									KOSC	24	18	—	19	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	G	1	1	ϕ	9	KOSC	25	2	10	15	
									SAIB	10	10	6	5	
									SPCO	ϕ	2	1	2	
									CAMG	ϕ	10	10	ϕ	
									SIHY	ϕ	1	ϕ	ϕ	
									STCO	ϕ	ϕ	ϕ	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D-Density
r-Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	G	1	2	ϕ		9	KOSC	30	11	20	20	
									SAIB	ϕ	4	2	1	
									STCO	ϕ	ϕ	ϕ	1	
									SPCO	2	ϕ	ϕ	1	
									CAHE	ϕ	10	ϕ	5	
ESA	D	07/03	G	1	2	ϕ		8	SAIB	2	2	3	5	
									KOSC	10	6	9	11	
									CRJA	ϕ	2	2	1	
									CHLE	1	1	ϕ	1	
ESA	D	07/03	G	1	1	4		0	SPCO	2	ϕ	ϕ	ϕ	
									SAID	2	ϕ	ϕ	15	
									STIO	1	3	5	3	
									KOSC	3	1	ϕ	2	
									CHNE	ϕ	1	ϕ	2	
									CAHE	ϕ	ϕ	ϕ	15	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D - Density
V - Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	G	1	5	0		4	KOSC	18	5	5	8	
									SAIB	4	10	6	1	
									CAHE	ϕ	25	30	20	
ESA	D	07/03	G	1	5	0		5	SAIB	7	14	8	7	
									KOSC	5	7	9	4	
									STCO	1	ϕ	ϕ	ϕ	
									SIHY	ϕ	ϕ	1	ϕ	
									BOGR	ϕ	V	ϕ	ϕ	
ESA	D	07/03	G	1	2	1		0	KOSC	1	ϕ	ϕ	ϕ	
									SAIB	1	1	ϕ	3	
									STCO	3	2	2	2	
									CHAL	ϕ	ϕ	ϕ	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D- Density
✓- Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	G	1	5	∅	1	KOSC	18	7	3	25	
									CAHE	5	5	20	∅	
									BOGR	✓	✓	✓	✓	
									CHLE	∅	1	∅	∅	
									SAID	∅	∅	1	∅	
ESA	D	07	03	G	1	5	∅	2	KOSC	12	9	7	9	
									SAID	2	3	1	3	
									BOGR	✓	∅	∅	∅	
									CAHE	6	20	16	25	
									CRSA	∅	1	∅	1	
ESA	D	07	03	G	1	5	∅	3	SAID	10	8	∅	5	
									KOSC	1	8	25	8	
									STCO	∅	∅	6	1	
									CHLE	5	∅	∅	3	
									CAHE	6	2	6	∅	

ARS Study #3 (ESA) PI – Dan Milchunas

N ↑

Recorder B. Vogel
Data Entered By_____

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	F	1	2		1	Arfr	—	1	1	1	
									Sa.b	7	11	16	3	
									Chle	1	—	—	—	
									Kosc	1	2	—	—	
ESA	Density	July	2003	F	1	2		2	Sihu	—	1	—	2	
									oppo	2	3	—	—	
									sa.b	6	12	13	7	
									c.ab	—	—	—	1	
									Kosc	1	—	—	—	
									chle	—		3	—	
ESA	Density	July	2003	F	1	2		3	sa.b	4	2	5	3	
									chle	3	1	3	4	
									Oppo	15	8	9	—	
									~~Bogr~~	✓	✓	✓	✓	
ESA	Density	July	2003	F	1	2		4	oppo	6	15	17	3	
									Arfi	1	—	—	2	
									Sa.b	9	3	4	4	
									~~Bogr~~	✓	✓	✓	✓	

✓ = present

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B Vogel
Data Entered By_____

Date of Collection 7 [illegible]

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
									Mil	-	-	1	-	
									chle	1	4	3		
									Cosa	1	-	-	-	
									Sihy	3	-	-	1	
ESA	Veg	July 2003	1	1	2		5		Bogr	✓	2		✓	
									Stco	2	-	-	1	
									chle	2	2	3	7	
									sihy	-	-	-	1	
									Stco	2	-	1	1	
									cahe	1	5	4	1	
									Saib	1	2	5		
ESA	Veg	July 2003	1	1	2		6		chle	3	1	5	2	
									Saib	2	1	3		
									Bogr	✓				
									spco	-	-	-	2	
									Cosa	1	-	-	-	
									cahe	2	2	4	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B Vogel
Data Entered By

Date of Collection 7.20

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	f	1	2		7	Ar.fr	2	3	1	–	
									Thtr	1	–	1		
									Sa.b	2	2	3	4	
									chle	–	–	2	–	
									Crja	0	1	1	0	
									Sihy	0	1	1	0	
ESA	Density	July	2003	f	1	2		8	Stco	1	2	1	0	
									Sihy	–	2	–	1	
									Ar.fr	–	–	3	1	
									Bouti		✓	✓	✓	
ESA	Density	July	2003	f	1	2		9	Sa.b	7	3	3	4	
									Sihy	–	–	–	1	
									Lede	1	–	–	–	
									Agsm	1	–	–	–	
ESA	Density	July	2003	f	1	2		10	Stco	0	0	0	1	
									Sa.b	3	5	1	–	
									chle	4	4	1	–	
									Sihy	1	1	1	1	

continued on next page

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B Vaz

Data Entered By_____

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	E	1	2	1	0	OPPO	-	-	-	4	
								SPIO	0	1	3	-	
								KOSC	-	1	-	-	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkerstorfer
Data Entered By " "

Page 2 of 2
Date of Collection 7·22·03

Density

✓ = present in plot

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	F	1	4		1	SAIB	7	8	11	1	
									SIHY	0	0	1	1	
									CHLE	1	1	2	4	
									~~BOGR~~	~~✓~~	~~0~~	~~✓~~	~~0~~	
									ARFR	0	0	1	0	
ESA		7·03	F	1	4		2	SAIB	4	3	1	3		
									CAHE	10	5	5	9	
									ARFR	0	1	1	1	
									OPPO	0	10	8	0	
									~~BOGR~~	~~0~~	~~✓~~	~~0~~	~~0~~	
									CHLE	0	0	1	1	
ESA		7·03	F	1	4		3	SIHY	1	0	0	0		
									SAIB	1	3	3	3	
									CHLE	5	1	0	1	
									CAHE	18	25	19	4	
									~~BUDA~~	~~0~~	~~✓~~	~~✓~~	~~0~~	
									ARFR	0	0	2	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather [illegible]
Data Entered By " "

Date of Collection 7·22 03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7·03		F	1	4		4	KOSC	0	0	1	0	
									ARFR	2	0	0	2	
									SAIB	2	2	1	4	
									SPCO	0	0	0	1	
									ARIO	0	1	0	0	
									CHLE	1	1	2	0	
									CRJA	1	0	1	0	
ESA		7·03		F	1	4		5	OPPO	9	3	12	22	
									CRJA	1	0	0	0	
									SAIB	1	1	1	1	
									CAHE	26	3	10	2	
									CHLE	1	3	0	0	
									THTR	1	0	2	0	
									ARFR	0	1	1	2	
									~~BOPR~~	~~0~~	~~✓~~	~~0~~	~~✓~~	
									SPCR	0	1	0	0	
									KOSC	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wilkerson

Data Entered By "

Page 14 of 27

Date of Collection 7·22·03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	F	1	4		6	ARFR	2	1	2	0	
									OPPO	0	1	5	3	
									SAIB	0	1	1	1	
									~~BOGR~~	~~✓~~	~~0~~	~~0~~	~~✓~~	
									~~BUDA~~	~~0~~	~~0~~	~~✓~~	~~0~~	
#7 ESA		7·03		F	1	4		8	STCO	0	1	3	0	
									SAIB	1	3	0	1	
									ARFR	1	0	0	0	
									CAHE	4	6	6	0	
ESA		7·03		F	1	4		9	STCO	0	1	1	0	
									OPPO	12	0	0	4	
									SIHY	0	0	0	2	
									CAHE	30	7	4	20	
									~~BUDA~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	
ESA		7·03		F	1	4		7						ANT HILL

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder [illegible]
Data Entered By_____

Date of Collection 7·22·03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7·03		F	1	4		10	OPPO	9	2	14	9	
									SIHY	1	2	1	0	
									ARFR	0	1	0	1	
									SPCO	0	1	2	0	
									STCO	0	1	0	0	
									SAIE	1	1	0	0	
									CAHE	0	5	2	0	
									~~BOGR~~	~~0~~	~~✓~~	✓	0	
ESA		7·03		F	1	5		5	CHLE	0	0	1	0	
									ARFR	0	1	0	0	
									OPPO	5	0	0	0	
									LYJU	0	0	1	0	
									CAHE	1	20	5	2	
									~~BOGR~~	~~✓~~	~~0~~	~~0~~	~~0~~	
									ARIO	1	0	0	0	
									SAIE	0	0	1	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wilkinson

Data Entered By "

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	F	1	5		4	SAIB	1	2	1	0	
									CHLE	0	1	0	0	
									ARFR	0	1	1	1	
									~~BOGR~~	~~0~~	~~0~~	~~✓~~	~~0~~	
									SPCO	1	0	0	0	
									SIHY	1	0	0	0	
ESA		7.03		F	1	5		3	OPPO	5	0	0	2	
									KOSC	2	3	1	0	
									SAIB	1	5	7	3	
									ARFR	1	0	0	1	
									CHLE	1	0	1	0	
									SIHY	0	0	0	1	
									CAHE	0	5	4	15	
									SPCO	1	2	2	0	
									SPCR	1	0	0	0	

ARS Study #3, (ESA) PI – Dan Milchunas

Recorder Heather [illegible]
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	F	1	5		2	CHLE	4	5	2	3	
									SAIB	26	12	6	14	
									CAHE	0	2	4	4	
ESA		7.03		F	1	5		1	ARFR	1	1	0	1	
									OPPO	6	2	3	5	
									SAIB	9	6	4	12	
									CHLE	0	1	0	0	
ESA		7.03		F	1	5		6	LEDE	1	0	0	0	
									ARFR	1	1	0	1	
									SAIB	1	5	3	2	
									SPCO	1	1	1	2	
									[illegible]	0	0	3	4	
									[illegible]	0	0	1	✓	
									THIR	1	2	0	0	
									SIHY	1	2	1	0	
									CAHE	5	0	2	20	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Page ___ of ___
Date of Collection 7/22/03

Density

D - Density
✓ - Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	E	1	5	∅	7	CAHE	15	10	8	10	
									SAIB	∅	1	4	2	
									CHLE	∅	1	2	1	
									CRJA	∅	1	∅	∅	
									BOGR	∅	✓	✓	✓	
									LEDC	∅	∅	∅	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jan Wenn
Data Entered By_____

Date of Collection 7/22/07

D → Density
✓ = Present

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	07	F	1	1	ϕ	9	SAB	25	14	8	6	
									CRTA	4	1	ϕ	ϕ	
									CHLE	1	1	2	ϕ	
									ARFR	1	1	ϕ	ϕ	
									EEDE	ϕ	6	1	ϕ	
									BOGR	ϕ	✓	ϕ	ϕ	
									CAHC	ϕ	2	ϕ	ϕ	
									MILI	ϕ	6	1	ϕ	
									THFR	ϕ	ϕ	ϕ	1	
ESA	D	07	07	F	1	1	1	0	SAB	10	9	14	6	
									SEHY	1	ϕ	ϕ	ϕ	
									KOSC	1	ϕ	ϕ	ϕ	
									ARFR	ϕ	2	ϕ	ϕ	
									CHLE	ϕ	3	9	ϕ	
									SPCO	ϕ	ϕ	ϕ	1	
									PLPA	1	ϕ	ϕ	ϕ	
									STCO	ϕ	ϕ	1	ϕ	
									CAR	ϕ	ϕ	1	ϕ	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder [illegible]
Data Entered By_____

Date of Collection 7/20/03

Density

(D = Density
V = Presence)

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		F	1	1	ø	6	SAZB	3	2	3	2	
									CAME	4	ø	ø	ø	
									SIHY	1	1	ø	1	
ESA	D	07/03		F	1	1	0	7	SAZB	7	7	6		
									CHLE	2	2	1		
									BOGR	✓	ø	✓		
									CAME	3	ø	ø		
									CRJA	1	ø	ø		
									SIHY	1	ø	1		
									LEDE	ø	ø	2		
ESA	D	07/03		F	1	1	ø	8	SAZB	29	36	14	12	
									CHLE	1	1	ø	ø	
									HEAN	9	6	1	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jan + Werner
Data Entered By_____

Page 2 of 27
Date of Collection 7/28/03

Density

* D = Density
✓ = Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	F	1	1	∅		4	ARFR	1	∅	∅	∅	
									CHLE	1	1	5	4	
									SAIB	10	11	7	7	
									SOHY	∅	2	1	∅	
									CAHE	5	11	∅	∅	
									SPCR	∅	∅	∅	1	
									CRJA	∅	1	∅	∅	
									LEDC	∅	∅	1	∅	
ESA	D	07/03	F	1	1	∅		5	CHLE	1	3	1	1	
									SAIB	2	2	3	3	
									SPCR	∅	1	∅	∅	
									OPPO	∅	2	∅	12	
									~~BOGR~~	✓	✓	✓	∅	
									CAHE	✓	1	4	∅	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

* D= Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	F	1	1	ø	1	SAE3	1	2	ø	ø	
									STCO	3	3	2	2	
									SPCO	1	ø	ø	ø	
ESA	D	07	03	F	1	1	ø	2	SAE3	10	14	16	11	
									HLAN	ø	ø	1	1	
									KOSC	ø	ø	ø	2	
									SPCO	ø	1	ø	ø	
ESA	D	07	03	F	1	1	ø	3	CHLE	3	ø	ø	1	
									SPCO	ø	1	1	1	
									CRJA	1	ø	ø	ø	
									ARFR	ø	1	2	ø	
									LEDE	ø	ø	1	ø	
									SAE3	5	5	4	4	
									KOSC	ø	ø	1	ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	DEN.	7	03	F	1	0	3	1	OPPO	13	—	4	14	✓ = present
									~~BUDA~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	— = not present
									SAIB	5	10	3	—	
									CHLE	1	—	5	2	
									~~BOGR~~	~~✓~~	~~—~~	~~—~~	~~✓~~	
						0	3	2	SAIB	11	1	6	5	
									CHLE	1	2	3	5	
									ARFR	1	2	—	—	
									SIHY	—	1	3	—	
									KOSC	—	1	1	—	
						0	3	3	CHLE	2	6	1	3	
									SAIB	13	9	7	5	
									ARFR	2	—	—	—	
									SPCO	2	—	—	—	
						0	3	4	KOSC	1	1	—	—	
									ARFR	2	2	1	—	
									SIHY	1	1	1	—	
									CHLE	—	1	1	—	
									SAIB	1	1	1	—	
									SPCO	—	—	—	3	
									CAHE	—	4	4	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den.	7	03	F	1	0	3	5	SAIB	4	2	1	5	
									SPCO	—	—	2	3	
									SIHY	2	—	—	—	
									KOSC	—	—	—	1	
									~~BOGR~~	—	✓	✓	—	
									CAHE	7	—	2	15	
									THTR	—	1	—	—	
						0	3	6	OPPO	5	6	19	7	
									CHLF	—	1	—	2	
									SIHY	2	—	—	—	
									SAIB	1	2	1	3	
						0	3	7	SIHY	—	1	2	—	
									CRJA	—	—	—	4	
									OPPO	—	8	2	5	
									ARFR	—	3	—	—	
									SAIB	1	1	1	2	
									SPCO	3	1	1	—	
									CHLE	2	—	1	—	
									CAHE	—	21	4	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gayl'a
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	F	1	0	3	8	ARLO	1	—	—	—	
									SPCR	—	1	+	—	
									CHLE	—	—	1	2	
									SIHY	1	1	1	—	
									SAIB	2	2	1	—	
									LEDE	—	1	1	—	
									THTR	1	—	1	—	
									OPPO	8	3	—	3	
									ARFR	1	—	—	—	
									~~BOER~~	~~—~~	~~✓~~	~~—~~	~~✓~~	
						0	3	9	SIHY	2	2	—	2	
									OPPO	18	29	25	22	
									SPCO	—	—	—	3	
									CHLE	—	—	3	1	
									SPCR	1	—	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Page [illegible] of [illegible]
Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	F	1	0	3	10	OPPO	15	—	7	5	
									SPCO	2	5	—	—	
									SAIB	1	2	—	1	
									CRJA	—	—	2	—	
									ARFR	1	—	—	—	
									BOGR	—	✓	✓	—	
									SIHY	2	—	2	3	
									CHLE	—	—	—	1	
									CAHE	—	—	—	4	
						0	5	10	CHLE	—	1	—	2	
									SAIB	—	2	3	2	
									SIHY	1	1	—	—	
									THTR	3	4	3	3	
									ARFR	—	1	1	1	
									BOGR	✓	—	✓	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Page 2 of 2
Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	F	1	0	5	9	ARFR	—	—	—	1	
									CHLE	1	2	—	4	
									SIHY	—	2	—	—	
									SAIB	2	2	1	1	
									THTR	2	—	—	—	
									CAHE	5	7	15	13	
									SPCO	—	—	1	—	
									~~BOGR~~	—	—	—	✓	
						0	5	8	ARFR	—	—	1	1	
									SPCO	—	—	2	1	
									CHLE	1	1	4	2	
									OPPO	14	34	6	2	
									CAHE	7	10	15	4	
									~~BOGR~~	✓	—	✓	✓	
									SIHY	—	—	—	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Laura Jamison

Page 8 of 29

Data Entered By_____

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7-03	DG	2	GRUB		31	Saib	2	3	0	3	
								Spco	3	0	3	1	
								Chle	0	5	2	1	
								Bogr	✓	✓	✓	✓	
								lede	0	1	0	0	
								Stco	0	1	0	1	
								Cahe	0	4	12	3	
								Ecvi	0	3	0	0	
								Spcr	0	0	1	0	
ESA	D	7-03	DG	2	GRUB		21	Saib	1	2	2	1	
								Spco	1	2	4	0	
								Stco	2	1	0	1	
								Ecvi	0	1	0	0	
								Lede	0	0	1	0	
								Chle	0	1	1	0	
								ArFr	0	0	1	0	
								lich	1	3	8	2	
								~~Bogr~~	0	0	✓	✓	
								Cahe	3	6	10	12	
								Arlo	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Bleeker

Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G	23	SINY	3	—	—	—	GK
								ARFR	—	2	—	—	
								SAIB	2	4	1	1	
								SPCO	1	2	3	1	
								CAHE	7	4	12	22	
								LEDE	—	—	—	—	
								CHLE	1	—	—	—	
								ARLO	1	—	1	1	
								LIUH	—	1	2	[illegible]	
~~ESA~~	~~D~~	~~7~~	~~03~~	~~DG~~		G	22	LEDE	—	1	1	2	GK
								SAIB	24	5	5	4	
								OPPO	4	4	—	—	
								SPCO	1	—	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecker

Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G	25	CAHE	20	35	16	14	GR
								OPPO	7	—	—	—	
								SAIB	1	—	1	1	
								SIHY	1	—	B	—	
								SPCR	—	—	—	1	
								SPCO	—	—	1	—	
								ARFR	1	—	—	—	
								LEDE	1	—	—	—	
								ARLO	1	—	1	—	
								ECVI	—	1	—	—	
								LICH	—	1	—	2	
								CHLE	—	1	—	—	
ESA	D	7	03	DG	2	G	24	ARFR	—	1	—	—	GK
								ARLO	—	—	1	—	
								HEPU	1	—	—	—	
								OPPO	12	—	—	27	
								SPCO	—	1	—	—	
								CAHE	24	13	15	12	
								SAIB	—	1	1	—	
								SPCR	—	—	1	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecker

Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G		5	ARLO	3	2	—	2	GK
									STCO	1	—	—	1	
									ARFR	—	—	1	—	
									CHLE	—	—	—	2	
									SAMB	1	1	—	—	
									SPCO	1	1	1	—	
									OPPO	—	2	—	—	
									CAHE	—	—	3	—	
ESA	D	7	0[illegible]	DG	2	G		13	ARLO	1	—	—	—	GK
									CRJA	1	1	—	—	
									LEDE	—	—	2	—	
									ARFR	—	1	—	1	
									SAMB	—	—	—	1	
									OPPO	12	—	—	8	
									SPCO	1	4	2	—	
									CHLE	1	—	—	—	
									SPCR	—	1	—	—	
									BOGR	—	—	✓	—	—

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blaker
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G		50	LEDE	2	—	—	—	GK
									SAIB	2	—	3	3	
									ARFR	—	—	2	—	
									CHLE	—	—	1	—	
									STCO	4	3	1	3	
									OPPO	—	—	—	5	
									SPCO	1	[illegible]	—	—	
									CAHE	—	2	—	2	
ESA	D	7	03	DG	2	G		16	OPPO	8	7	[illegible]	12	
									ARFR	1	1	—	—	
									LEDE	—	—	1	—	
									STCO	2	4	1	3	
									SAIB	2	6	2	1	
									SPCO	1	—	—	—	
									CHMN	—	4	1	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecker

Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G		47	OPPO	—	9	—	—	GK
									STCO	3	4	3	1	
									SAIB	2	2	4	5	
									ARLO	2	—	—	—	
									ECVI	—	—	—	1	
									SPCO	—	—	—	—	
									KOSC	—	—	3	—	
									[redacted]					
									SPCR	—	—	1	—	
ESA	D	7	03	DG	2	G		48	STCO	5	3	3	7	GK
									CHLE	2	—	—	—	
									CAHE	4	—	—	—	
									SPCO	1	1	3	—	
									SAIB	—	—	1	1	
									ECVI	—	—	—	4	
													~~4~~	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecker

Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G		43	ARFR	—	1	—	—	GK
									STCO	4	5	1	3	
									SAIB	2	—	—	—	
									SPCO	1	1	1	—	
									CHLE	—	—	—	1	
									CAHE	—	4	8	3	
									LICH	—	6	—	—	
									~~BOGR~~	—		✓	—	
									GACO	—	—	1	—	
									SITY	—	—	—	1	
									ARLO	—	—	—	1	
ESA	D	7	03	DG	2	G		45	OPPO	—	—	2	—	GK
									SAIB	1	—	1	1	
									STCO	3	3	3	4	
									CHLE	3	—	—	—	
									CAHE	7	11	3	2	
									ARLO	1	2	—	1	
									SPCO	—	—	—	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Becker

Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G	39	STCO	1	2	1	1	GR
								SAMB	2	1	—	2	
								LICH	[illegible]	3	2	—	
								ARLO	2	1	1	2	
								SPCR	1	—	—	—	
								CAHE	—	5	3	—	
								CHLE	—	1	—	—	
ESA	D	7	03	DG	2	G	2	STCO	1	—	4	2	GR
								SAMB	8	2	1	4	
								KOSC	—	—	1	—	
								CHLE	—	—	1	—	
								ARLO	—	1	—	—	
								SITY	—	2	—	—	
ESA	D	7	03	DG	2	G	41	STCO	1	5	3	1	GR
								SAMB	—	—	—	1	
								CAHE	27	6	—	10	
								LICH	1	—	—	2	
								SPCR	—	—	1	1	
								CHLE	—	—	1	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve W. Becker

Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G	34	STCO	1	1	2	—	GR
								ARFR	1	1	—	—	
								SAIB	1	1	5	1	
								SPCR	—	1	—	—	
								SPCO	1	1	—	—	
								ARLO	1	1	—	—	
								CHLE	—	—	1	—	
								LICH	—	—	[illegible]	3	
ESA	D	7	03	DG	2	G	1	STCO	—	—	1	1	GR
								EREF	—	—		1	
								SAIB	1	2	1	—	
								CHLE	—	—	1	—	
								OPPO	8	—	4	6	
								ARLO	2	3	—	—	
								SIHY	1	—	—	—	
								ARFR	—	—	1	—	
								SPCR	—	—	—	1	
								KOSC	—	—	—	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. GRADY
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	G		17	SAIB	11	14	6	15	
									CHLE	4	1	Ø	2	
									CAHE	29	7	6	23	
									SPCO	2	6	4	2	
									ARFR	Ø	Ø	2	2	
									ECVI	Ø	1	Ø	Ø	
									STCO	Ø	2	Ø	Ø	
									CHGL	Ø	1	Ø	Ø	
									OAEL	Ø	Ø	4	Ø	
								18	SAIB	2	3	2	6	
									CHLE	1	3	1	Ø	
									CAHE	44	53	11	17	
									SPCO	1	5	Ø	4	
									ARFR	1	Ø	Ø	1	
								19	ARFR	1	1	Ø	1	
									CHLE	1	3	7	4	
									SAIB	6	4	10	7	
									SPCO	Ø	1	Ø	4	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Grady
Data Entered By 1

√= Present
NP= Not Present
Density

Date of Collection 7/23/03

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7/03		DG	2	G			STCO	1	2	Ø	Ø	
									CAHE	1	Ø	Ø	3	
									SPCR	Ø	Ø	Ø	1	
									CRJA	Ø	Ø	Ø	1	
								11	SAIB	4	3	6	3	
									STCO	Ø	2	1	Ø	
									CHAL	Ø	1	Ø	Ø	
									CAHE	14	7	11	13	
									CHLE	Ø	1	Ø	Ø	
									SPCO	Ø	1	Ø	Ø	
								10	HASP	1	1	Ø	Ø	
									CHLE	2	Ø	1	2	
									SAIB	1	2	Ø	3	
									ARFR	Ø	Ø	Ø	1	
									SPCO	Ø	1	2	Ø	
									~~BOGR~~	~~✓~~	~~✓~~	~~✓~~	~~NP~~	
									STCO	3	1	1	2	
									UNKN	1	Ø	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkenstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	DG	2	Grub	33	SAIB	3	4	2	4	
								CAHE	20	0	0	10	
								CHLE	0	1	0	0	
								CRJA	0	3	1	0	
								BOGR	✓	✓	✓	✓	
ESA		7	03	DG	2	Grub	32	SAIB	17	17	15	12	
								OPPO	1	0	0	0	
								CAHE	0	10	0	0	
								SPCO	0	1	0	0	
ESA		7	03	DG	2	Grub	20	DIPA	1	0	0	0	
								SAIB	3	1	0	1	
								CHLE	2	2	1	0	
								MARFR	0	0	0	1	
								SPCO	1	1	1	0	
								BOGR	✓	✓	✓	✓	
								ECVI	0	1	0	0	
								CAHE	30	25	11	13	
								OPPO	0	0	0	6	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Grady
Data Entered By

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	D6	2	G		8	SAIB	9	10	17	18	
									ARFR	1	Ø	Ø	1	
									OPPO	7	9	2	Ø	
									CHAL	1	1	3	2	
									SIHY	Ø	2	2	Ø	
									KOSC	Ø	Ø	Ø	4	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/07

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	DG	2	Grub		29	KOSC	10	30	5	ø	Ant hill in # 1, 3, 4
								OPPO	10	ø	16	3	
								ARLO	ø	1	ø	ø	
								SAIB	ø	4	5	ø	
								STCO	ø	ø	1	ø	
ESA	D	07/03	DG	2	Grub		30	STCO	3	1	ø	1	
								SAIB	5	4	10	7	
								SPCO	1	2	2	3	
								CHLE	ø	1	4	3	
								OPPO	ø	ø	5	ø	
ESA	D	07/03	DG	2	Grub		12	OPPO	3	3	ø	ø	
								LEDE	1	ø	ø	2	
								SAIB	3	4	4	2	
								ARFR	ø	ø	1	1	
								CHLE	1	ø	ø	ø	
								SPCO	ø	2	3	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Wenner
Data Entered By_____

Date of Collection 7/23/03

D-Density
GK-Grub Kill Plot
V-Present

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	DG	2	Grub		3	SAIB	4	6	12	15	GK
								SPCO	1	∅	1	∅	
								ARLO	∅	1	1	∅	
								STCO	∅	V	∅	1	
								CRJA	∅	∅	∅	1	
ESA	D	07/03	DG	2	Grub		7	STCO	7	3	1	V	GK
								SAIB	5	8	5	3	
								SPCO	∅	3	1	1	
								CHLE	∅	1	1	5	
								~~BOGR~~	~~∅~~	~~∅~~	~~∅~~	~~✓~~	
								OPPO	∅	∅	∅	5	
ESA	D	07/03	DG	2	Grub		28	CHLE	4	∅	∅		GK
								~~BOGR~~	~~✓~~	~~∅~~	~~∅~~	~~✓~~	
								SPCO	2	1	1	∅	
								ARFR	∅	1	∅	∅	
								SAIB	2	1	3	9	
								CRJA	∅	∅	∅	2	
								SPCR	∅	∅	1	∅	
								LEOE	∅	∅	∅	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Wagner
Data Entered By_____

Date of Collection 7/23/03

Density

D-Density
✓- Present
GK-Grub kill

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	DG	2	Grub	6	SIHY	1	ϕ	ϕ	ϕ	GK
								STCO	ϕ	ϕ	ϕ	2	
								OPPO	4	13	3	5	
								CHLE	1	ϕ	2	ϕ	
								ECUI	2	ϕ	ϕ	ϕ	
								SPCO	1	1	1	1	
								SAIB	1	3	ϕ	2	
								~~BOGR~~	~~✓~~	~~ϕ~~	~~✓~~	~~ϕ~~	
								ARFR	ϕ	1	1	ϕ	
								CAHE	ϕ	10	5	ϕ	
								SPCR	ϕ	ϕ	ϕ	1	
ESA	D	07	03	DG	2	Grub	4	SAIB	3	2	ϕ	ϕ	GK
								STCO	3	1	2	2	
								SPCO	1	1	ϕ	ϕ	
								CHLE	1	1	ϕ	ϕ	
								KOJC	ϕ	1	ϕ	ϕ	
								CAHE	ϕ	ϕ	30	10	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

D_ Dens. M
V - Present
GK - Grub K. ~~Kill~~

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	DG	2	Grub	44	SPCO	1	ϕ	ϕ	ϕ	GK
								STCO	3	2	2	3	
								SAIB	ϕ	2	3	1	
								CHLE	ϕ	1	1	1	
								KOSC	2	ϕ	ϕ	ϕ	
								ARFR	ϕ	1	ϕ	ϕ	
								ARLO	ϕ	1	ϕ	ϕ	
ESA	D	07	03	DG	2	Grub	46	STCO	3	3	3	2	GK
								CHLE	1	3	ϕ	ϕ	
								~~BOGR~~	~~1~~	~~ϕ~~	~~ϕ~~	~~ϕ~~	
								SAIB	2	1	1	1	
								SPCO	ϕ	1	ϕ	ϕ	
ESA	D	07	03	DG	2	Grub 4	49	STCO	2	4	2	3	GK
								OPPO	5	ϕ	ϕ	ϕ	
								SAIB	ϕ	ϕ	ϕ	3	
								ECVI	ϕ	1	ϕ	ϕ	
								LICH	10	5	15	ϕ	
								~~BOGR~~	~~ϕ~~	~~ϕ~~	~~ϕ~~	~~✓~~	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

Density

2-Density
GK-Grub Kill Plot
✓-Present

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	DG	2	Grub		38	STCO	1	1	2	2	GK
								CAHE	20	30	10	10	
								ARFR	ϕ	ϕ	ϕ	1	
								OPPO	ϕ	3	9	ϕ	
								SAIB	ϕ	1	1	2	
								SPCO	ϕ	2	ϕ	ϕ	
ESA	D	07/03	DG	2	Grub		40	MILI	1	ϕ	ϕ	ϕ	GK
								STCO	3	4	3	3	
								SAIB	ϕ	ϕ	1	2	
								CHLE	ϕ	ϕ	1	ϕ	
								OPPO	ϕ	2	ϕ	ϕ	
ESA	D	07/03	DG	2	Grub		42	STCO	2	1	1	ϕ	GK
								SAIB	2	ϕ	2	2	
								SPCO	1	2	ϕ	ϕ	
								ARLO	ϕ	ϕ	ϕ	1	
								CAHE	20	15	25	10	
								OPPO	ϕ	4	ϕ	ϕ	
								CHLE	ϕ	2	1	ϕ	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

Density

D- Density
GK-Grub Kill
1-Present plot

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	DG	2	Grub		36	STCO	1	2	ø	1	GK
								SPCO	3	1	ø	1	
								SAIB	1	2	ø	ø	
								ARFR	ø	ø	1	1	
ESA	D	07/03	DG	2	Grub		35	ARFR	1	ø	ø	ø	GK
								STCO	2	ø	1	ø	
								ARLO	ø	ø	1	ø	
								CHLE	ø	1	1	ø	
								SPCO	ø	1	2	ø	
								OPPO	ø	2	3	ø	
								EREF	ø	ø	1	1	
								SAIB	ø	ø	1	ø	
ESA	D	07/03	DG	2	GrUB		37	STCO	2	2	ø	1	GK
								SPCO	ø	2	1	2	
								BOGR	✓	ø	✓	✓	
								CAHE	10	5	10	5	
								SAIB	ø	ø	1	ø	
								SIHY	ø	1	ø	ø	
								ARLO	ø	1	1	ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Seth Ratering
Data Entered By_____

Date of Collection_____

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density			DG	2	GRUB	14	CHLE	0	0	1	0	
								SAIB	0	0	1	1	
								OEAL	0	0	0	1	
								LEDE	0	0	0	2	
								SPCO	0	0	1	1	
								OPPO	1	17	3	0	
								STCO	2	1	1	0	
								CAHE	7	7	5	0	
								ARLO	0	0	1	0	
								SPCR	0	2	1	0	
								SIHY	0	0	1	0	
						GRUB	15	OPPO	4	2	4	5	? #
								CHLE	2	5	2	1	
								SPCO	1	0	1	2	
								ECUI	0	3	0	0	
								SAIB	2	0	3	0	
								SIHY	1	0	0	0	
								CAHE	10	20	20	10	
								~~BOGR~~	~~0~~	~~✓~~	~~✓~~	~~✓~~	
								STCO	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Rafferty
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	PF	07	03	D6	GRUB	0	9	SAIB	1	3	2	1	
								SPCO	1	2	2	2	
								CHIN	2	0	0	0	
								CHLE	1	0	2	0	
								OPPO	7	0	0	3	
								EQUI	1	0	0	0	
								STCO	1	1	1	2	
								CAHE	10	10	15	5	
								~~BOGR~~	✓	✓	✓	✓	
						0	6	ARPR	0	1	0	0	
								SPCO	0	0	0	1	
								CHLE	0	0	0	2	
								ROSC	0	0	1	0	
								C. wilbsa	0	1	0	0	
								SAIB	3	0	0	2	
								STCO	2	2	3	1	
								SIHY	0	0	1	0	
								CAHE	5	5	10	10	
								TRDU	0	1	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/23/03

Density

21
37
48

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	DENS	07	03	DG	GRUB		2	7	ARFR	0	0	0	1	
									OPPO	10	0	0	7	
									CHLE	2	6	4	5	
									SAIB	0	0	2	1	
									STCO	1	1	1	0	
									~~BOGR~~	✓	✓	✓	✓	
									CAHE	5	10	10	5	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Wear
Data Entered By_____

Date of Collection 7/23/03

Density

D-Density
✓-Presence

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		G	2	4	0	8	KOSC	25	15	20	15	
									~~BOGR~~	~~✓~~	~~Ø~~	~~✓~~	~~✓~~	
									STCO	Ø	1	Ø	Ø	
									SAIB	3	Ø	1	1	
									CAHE	5	5	Ø	15	
ESA	D	07/03		G	2	4	0	7	KOSC	1	1	1	2	
									CAHE	45	15	35	10	
									CHGL	1	1	1	Ø	
									SAIB	Ø	1	2	3	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

Density

D - Density
V - Presence

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	6	2	3	0		8	STCO	1	3	3	ø	
									SAID	2	1	ø	1	
ESA	D	07/03	6	2	3	0		9	STCO	1	2	1	2	
									SPCO	ø	1	ø	2	
									SAID	2	ø	ø	2	
									BOGR	ø	✓	ø	ø	
ESA	D	07/03	6	2	3	1		0	STCO	3	3	1	4	
									SPCO	1	ø	ø	ø	
ESA	D	07/03	6	2	4	1		0	STCO	5	4	3	2	
									SAID	1	ø	ø	ø	
									BOGR	ø	ø	✓	✓	
ESA	D	07/03	6	2	4	ø		9	STCO	2	4	2	2	
									SAID	1	ø	1	ø	
									CHAE	1	ø	ø	ø	
									CAHE	10	10	5	ø	
									BOGR	✓	ø	✓	ø	
									CHLE	ø	ø	1	ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

Density

D-Density
✓- Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	G	2	3	0		4	KOSC	50	30	20	40	
									SAID	∅	5	15	1	
									CAHE	5	∅	∅	∅	
ESA	D	07/03	G	2	3	0		5	KOSC	9	7	10	25	
									SAID	7	6	2	4	
									CAHE	20	30	∅	15	
									CHGL	1	1	1	∅	
ESA	D	07/03	G	2	3	0		6	STCO	1	1	1	1	
									KOSC	2	13	13	15	
									CAHE	45	10	15	25	
									SAID	1	1	1	3	
									~~BOGR~~	~~∅~~	~~✓~~	~~✓~~	~~✓~~	
ESA	D	07/03	G	2	3	0		7	STCO	1	2	∅	1	
									SAID	3	4	2	4	
									KOSC	4	2	13	5	
									~~BOGR~~	~~∅~~	~~∅~~	~~✓~~	~~✓~~	
									CAHE	10	5	40	20	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Wehrli

Data Entered By_____

Date of Collection 7/23/03

Density

D-Density
V-Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		G	2	3	ø	1	CHGL	1	ø	1	1	
									SAIB	6	4	2	2	
									CAHE	15	5	5	30	
									KOSC	8	8	11	9	
									CRJA	1	1	5	ø	
ESA	D	07/03		G	2	3	ø	2	CRJA	5	1	ø	ø	
									KOSC	35	18	25	70	
									SPCO	ø	1	1	1	
									SAIB	ø	ø	ø	1	
									~~BOGR~~	~~ø~~	~~ø~~	~~ø~~	~~✓~~	
ESA	D	07/03		G	2	3	ø	3	SAIB	35	45	15	25	
									KOSC	15	8	20	20	
									CRJA	ø	ø	2	1	
									STCO	ø	1	ø	ø	
									~~BOGR~~	~~ø~~	~~✓~~	~~ø~~	~~✓~~	
									CAHE	ø	ø	ø	10	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Ds	07	03	6	2	S	0	6	SAIB	5	4	11	23
								KOSC	52	18	7	10	
								STCO	—	4	2	1	
						S	0	7	KOSC	51	63	69	92
						S	0	8	STCO	2	1	3	2
								SAIB	+	—	1	1	
								KOSC	—	1	1	—	
						S	0	9	STCO	—	—	1	—
								SAIB	—	3	2	3	
								KOSC	25	28	18	13	
								CAHE	4	3	6	5	
						S	1	0	CHGL	1	—	—	—
								SAIB	5	5	6	6	
								CAHE	15	—	12	6	
								CRJA	—	—	—	1	
								SIHY	—	1	1	—	
								STCO	—	—	—	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecker
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	G	2	4		4	SIHY	1	—	—	—	
									KOSC	17	5	3	3	
									SAMB	3	4	3	—	
									CRJA	—	—	1	3	
									CAHE	6	2	2	3	
									CHGL	—	2	4	—	
ESA	D	7	03	G	2	4		5	KOSC	5	23	10	7	
									CAHE	14	2	8	10	
									SAMB	5	4	5	10	
									~~BOGR~~	~~✓~~	~~✓~~	~~✓~~		
									SPCO	—	—	1	1	
									SIHY	2	2	—	2	
									CHGL	—	—	—	1	
									~~BOGR~~	~~—~~	~~—~~	✓	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Becker

Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	G	2	4		1	STCO	6	3	2	2	
									ARFR	—	—	1	2	
									KOSC	—	2	1	1	
									SAIB	—	—	1	1	
ESA	D	7	03	G	2	4		2	STCO	2	2	2	1	
									KOSC	1	1	—	—	
									SAIB	1	—	—	—	
									LAHE	8	3	9	24	
									~~BOGR~~	✓	✓	✓	✓	
									SPCO	—	—	1	—	
ESA	D	7	03	G	2	4		3	KOSC	15	7	16	28	
									CRTA	—	2	—	—	
									LAHE	8	10	6	3	
									SPCO	1	—	—	—	
									SAIB	4	1	1	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecker

Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	G	2	1		8	KOSC	22	17	38	28	
									SAIB	6	4	3	14	
									CHLE	—	—	—	2	
									CHAL	—	2	—	—	
ESA	D	7	03	G	2	1		9	KOSC	—	—	—	—	
									SAIB	6	3	8	5	
									CHLE	1	1	3	—	
									CHAL	—	1	—	—	
									SIHY	—	1	—	—	
									AGSM	—	—	3	5	
ESA	D	7	03	G	2	1		10	STCO	3	1	3	4	
									SAIB	0	2	0	1	
									~~BOGR~~	NO	✓	✓	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blocker
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	G	2	1		4	KOSC	45	30	26	34	
									~~[illegible]~~					
									~~BOER~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	
									CAHE	7	3	10	7	
ESA	D	7	03	G	2	1		5	KOSC	1	0	2	1	
									STCO	4	3	2	3	
									SAIB	—	2	6	—	
ESA	D	7	03	G	2	1		6	KOSC	2	17	8	2	
									SAIB	3	3	4	6	
									SPCO	1	2	—	1	
									CAHE	5	2	7	4	
									STCO	1	—	—	1	
									BOER	—	✓	—	—	
									CHLE	—	—	1	—	
ESA	D	7	03	G	2	1		7	KOSC	25	11	22	14	
									SAIB	5	14	10	6	
									ARFR	—	—	—	1	
									STCO	1	1	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Becker
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	G	2	1		1	KOSC	12	10	18	30	
									SAIB	5	4	3	2	
									CRJA	1	3	—	—	
									SPCO	1	1	1	—	
									CHLE	1	—	—	—	
									CHAL	2	—	—	—	
ESA	D	7	03	G	2	1		2	KOSC	12	3	6	7	
									SAIB	4	1	—	3	
									SIHY	—	1	—	—	
									CRJA	—	3	2	3	
									CHAL	—	—	—	4	
ESA	D	7	03	G	2	1		3	STCO	3	2	1	2	
									KOSC	—	2	3	2	
									SAIB	3	4	2	1	
									CHAL	1	—	—	—	
									CAHE	4	6	4	2	
									SIHY	—	—	1	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Grady
Data Entered By

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	G	2	2	1	KOSC	35	5	20	20	
								SAIB	56	35	22	33	
								CAHE	12	7	28	23	
								SPCO	3	Ø	Ø	2	
								COAR	Ø	2	1	1	
							2	KOSC	51	73	51	38	
								SAIB	3	2	1	Ø	
								SIHY	2	Ø	2	3	
							3	KOSC	37	42	35	61	
								SAIB	3	4	2	1	
								CAHE	11	7	13	21	
							4	STCO	3	3	4	4	
								KOSC	13	3	5	7	
								SAIB	Ø	1	1	2	
							5	KOSC	28	13	11	5	
								SAIB	8	1	6	7	
								STCO	2	Ø	1	1	
								CAHE	7	27	11	11	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Geady
Data Entered By

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7/03		G	2	2		6	SPCO	2	9	10	7	
									SAIB	22	18	11	14	
									KOSC	2	3	5	1	
									CAHE	27	15	6	16	
								7	STCO	Ø	Ø	1	Ø	
								7	STCO	1	Ø	1	1	
									KOSC	38	27	19	3	
									SPCO	3	Ø	3	2	
									SAIB	7	3	7	8	
								8	KOSC	21	32	45	33	
									STCO	Ø	Ø	1	1	
									SPCO	1	1	2	1	
									CHLE	1	2	7	6	
								9	SAIB	8	22	17	14	
									KOSC	23	2	11	24	
									SPCO	Ø	1	3	1	
								10	STCO	2	1	1	3	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Brady
Data Entered By

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7/03		G	2	4		6	KOSC	5	31	14	5	
									SPJB	4	5	9	10	
									CAHE	41	27	39	28	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Rafering
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	G	2	5	0	5	KOSC	5	10	10	5	
									CAHE	25	10	15	10	
									SAIB	6	0	1	5	
									CHGL	1	0	0	0	
									SIHY	0	0	1	0	
									CHLE	0	1	0	0	
						5	0	4	KOSC	20	20	15	20	
									CRJA	0	3	0	0	
									CAHE	10	10	5	5	
									SAIB	1	0	2	1	
						5	0	3	KOSC	30	15	20	20	
									SAIB	7	0	3	0	
									CAHE	0	0	0	5	
						5	0	2	CHGL	1	2	0	0	
									CRJA	3	0	0	3	
									CAHE	0	5	5	0	
									KOSC	5	7	5	4	
									SAIB	1	1	0	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Raterlng
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	E	2	5	0	1	SAIB	5	3	2	0	
									KOSC	2	3	1	1	
									STCO	0	1	1	0	
									CAHE	7	5	8	10	
									CHGL	1	0	1	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

D-Density
✓-Present

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		E	2	5	0	8	KOSC	90	75	40	60	
									~~CPA~~	✓				
ESA	D	07/03		E	2	5	0	7	SAID	19	15	7	9	
									KOSC	10	4	1	3	
									~~BOGR~~	✓	∅	✓	∅	
									ECVI	∅	3	1	∅	
									ARFR	∅	1	∅	∅	
									CAHE	∅	5	∅	∅	
									SPCO	∅	∅	R	1	
ESA	D	07/03		E	2	5	0	6	KOSC	25	35	30	11	
									SAID	10	3	2	5	
									CAHE	∅	15	1	10	

7
15
~~16~~
0

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/22/03

Density

D = Density
✓ = Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	E	2	5	1	0	SAID	8	6	12	5	
									SPCO	3	ϕ	ϕ	3	
									KOSC	2	1	4	4	
									BOGR	ϕ	✓	ϕ	ϕ	
									CAHE	12	5	10	15	
									ECUI	ϕ	4	ϕ	ϕ	
									CHLE	ϕ	ϕ	ϕ	1	
ESA	D	07/03	E	2	5	ϕ	9		STCP	1	ϕ	ϕ	1	
									KOSC	6	1	1	2	
									SAID	12	26	8	22	
									SPCO	2	1	3	2	
									CHLE	ϕ	1	1	ϕ	
									OPPO	ϕ	3	3	ϕ	
									CAHE	10	2	5	ϕ	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

D-Dens. by
✓-Present

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	E	2	5	ϕ	4	STCO	5	3	2	2	
									ECVI	ϕ	3	ϕ	2	
									SPCO	ϕ	ϕ	ϕ	2	
									SAIB	1	ϕ	3	1	
									KOSC	1	ϕ	ϕ	ϕ	
ESA	D	07	03	E	2	5	ϕ	5	THTR	3	ϕ	ϕ	3	
									SAIB	4	2	3	2	
									ARFR	ϕ	ϕ	1	ϕ	
									MILI	ϕ	1	ϕ	ϕ	
									SPCO	2	ϕ	1	ϕ	
									STCO	ϕ	1	3	ϕ	
									~~BOGR~~	~~ϕ~~	~~ϕ~~	~~ϕ~~	~~✓~~	
									CAHE	2	ϕ	ϕ	1	

ARS Study #3 (ESA)

PI – Dan Milchunas

Recorder Jamie Weaver

Data Entered By

D - Density

✓ - Present

Density

Date of Collection 7/23/03

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	E	2	5	ϕ	1	STCO	1	1	2	2
								SAIB	1	3	4	3	
								SPCO	1	ϕ	ϕ	ϕ	
								OPPO	ϕ	ϕ	ϕ	11	
								CHLE	ϕ	ϕ	2	ϕ	
								~~BOGR~~	~~ϕ~~	~~✓~~	~~ϕ~~	~~ϕ~~	
								ECVI	ϕ	3	ϕ	ϕ	
								AGSM	2	ϕ	ϕ	ϕ	
								KOSC	1	2	1	ϕ	
ESA	D	07	03	E	2	5	ϕ	2	SAIB	17	23	18	7	
								~~BOGR~~	~~ϕ~~	~~✓~~	~~✓~~	~~ϕ~~	
								STCO	1	ϕ	ϕ	2	
								KOSC	ϕ	ϕ	1	ϕ	
ESA	D	07	03	E	2	5	ϕ	3	KOSC	ϕ	ϕ	1	1	
								SAIB	9	10	3	3	
								STCO	ϕ	ϕ	1	1	
								CAHE	ϕ	7	6	5	
								SPCO	1	ϕ	1	ϕ	
								ARLO	ϕ	1	ϕ	ϕ	
								~~BOGR~~					

ARS Study #3 (ESA)

PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		E	2	4	1	Saib	7	9	8		
								Kosc	0	1	0	2	
								Thtr	1	0	0	1	
								~~Buda~~	✓	✓	✓	✓	
								Arfr	2	0	0	0	
								Sihy	3	0	0	0	
								Stco	2	0	0	0	
								Spco	0	1	5	0	
								~~Bogr~~	0	✓	0	0	
ESA		7-03		E	2	4	2	Saib	1	4	0	3	lots of bare ground in quad 3/4
								Arfr	1	1	0	0	
								Stco	2	1	2	1	
								Ecvi	2	0	0	0	
								Cahe	0	4	2	0	
								~~Bogr~~	0	0	✓	0	
ESA		7-03		E	2	4	3	Saib	1	1	2	3	
								Stco	6	5	4	4	
								Spco	0	0	1	1	
								Cahe	0	0	7	6	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		E	2	4		4	Saib	7	3	6	4	
									ArFr	1	0	1	0	
									Stco	1	3	2	2	
									Kosc	0	0	1	1	
									Arlo	1	0	0	0	
									Cahe	0	0	1	5	
ESA		7-03		E	2	4		6	Saib	13	11	14	9	
									ArFr	0	1	1	0	
									Stco	1	1	1	2	
									Kosc	3	5	4	13	
									Mil:	0	1	0	0	
ESA		7-03		E	2	4		7	Saib	12	20	4	7	
									ArFr	0	0	0	1	
									Stco	0	1	2	1	
									Kosc	0	0	1	1	
									Spco	3	1	3	3	
									~~Bogr~~	~~✓~~	~~0~~	~~0~~	~~0~~	
									Cahe	8	3	4	7	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7-03		E	2	4		8	Saib	17	20	15	23	
									Kosc	1	2	0	3	
									Spco	0	0	3	1	
									Chle	2	0	0	1	
									Agsm	4	2	0	0	
ESA		7-03		E	2	4		9	Saib	10	12	4	5	lots of
									Spco	2	2	0	0	Bare ground
									Chle	0	2	4	0	in quad 3/4
									Kosc	0	2	0	2	
									~~Bogr~~	~~0~~	~~0~~	~~0~~	~~✓~~	
ESA		7-03		E	2	4		10	Saib	11	10	7	19	
									Chle	2	2	3	1	
									Asox	1	0	0	0	
									Kosc	1	1	6	1	
									Cahe	0	3	10	5	
									Spco	0	0	2	1	
									~~Bogr~~	~~0~~	~~0~~	~~0~~	~~✓~~	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	-03	E	2	4		5	Sa:b	3	7	9	6	No
									Kosc	20	10	6	3	Marker Stake
									Spco	1	1	0	0	
									Cahe	3	0	0	0	
									Stco	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Grady
Data Entered By_____

✓→Present
NP=Not Present

Page 15 of 25
Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7/03		E	2	3	1	SAIB	23	16	14	10	
								ARFR	1	Ø	Ø	1	
								SPCO	3	Ø	[illegible]	Ø	
								KOSC	2	1	1	2	
								~~BOGR~~	~~✓~~	~~NP~~	~~✓~~	~~✓~~	
								CAHE	16	11	17	8	
							2	SAIB	12	18	11	17	
								SPCO	Ø	Ø	1	Ø	
								LEDE	Ø	Ø	1	Ø	
								SIHY	Ø	Ø	Ø	1	
								~~BOGR~~	~~✓~~	~~NP~~	~~NP~~	~~✓~~	
								LYJU	Ø	1	Ø	Ø	
								KOSC	Ø	1	Ø	Ø	
								OPPO	5	Ø	Ø	Ø	
							3	LYJU	[illegible]	2	1	2	
								ARFR	Ø	Ø	1	Ø	
								STCO	3	Ø	1	1	
								SPCO	1	Ø	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Grady
Data Entered By

V = Present
NP = Not Present

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7/03	E	2	3				THTR	Ø	Ø	Ø	2	
									SAIB	Ø	7	2	2	
									CAHE	8	6	Ø	16	
									~~BOGR~~	~~NP~~	~~✓~~	~~✓~~	~~✓~~	
								4	SAIB	3	1	Ø	Ø	Lots of Litter
									STCO	5	3	2	3	
								5	SPCO	1	1	1	Ø	
									STCO	1	Ø	Ø	Ø	
									SAIB	8	22	10	16	
									KOSC	Ø	2	3	2	
									~~BOGR~~	~~✓~~	~~✓~~	~~NP~~	~~NP~~	
									CAHE	4	Ø	Ø	Ø	
									ARFR	Ø	Ø	Ø	1	
								6	SAIB	12	20	6	8	
									KOSC	3	10	11	13	
									UNKN	1	Ø	Ø	Ø	
									SPCO	1	5	4	5	
									STCO	1	Ø	Ø	1	

ARS Study #3 (ESA)

PI – Dan Milchunas

Recorder B. Grady
Data Entered By _____

✓ = Present
NP = Not Present

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	/03	E	2	3			CAHE	Ø	3	8	6	
									~~BUDA~~	~~NP~~	~~✓~~	~~✓~~	~~NP~~	
								7	SPCO	6	1	Ø	1	
									SAIB	22	4	7	34	
									KOSC	36	26	29	20	
									CAHE	16	7	10	11	
									CRJA	1	Ø	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkenstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	E	2	2		1	SAIB	11	4	6	7	
									KOSC	2	2	19	1	
									AGSM	0	7	0	4	
									THTR	0	0	0	1	
									SPCO	1	0	0	0	
									ARFR	0	0	0	1	
ESA		7	03	E	2	2		2	SAIB	7	11	19	13	
									CHLE	1	1	1	2	
									OPPO	0	0	4	0	
									KOSC	2	0	0	4	
									SPCO	1	0	0	0	
ESA		7.03		E	2	2		3	SAIB	8	3	1	6	
									CHLE	1	0	0	0	
									STCO	1	0	2	0	
									SPCO	3	2	1	2	
									ARFR	1	0	0	0	
									ARIO	1	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Walkenstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	E	2	2		4	PLPA	0	1	1	0	
									OPPO	0	2	0	0	
									SAIB	5	8	10	4	
									ARLO	1	1	0	1	
									STCO	1	0	0	0	
									CAHE	4	2	3	6	
									SPCO	1	0	0	0	
ESA		7	03	E	2	2		5	STCO	2	2	3	0	
									SAIB	1	1	1	0	
									CAHE	7	10	7	16	
ESA		7	03	E	2	2		6	SAIB	0	0	1	4	
									STCO	2	0	3	3	
									SPCO	0	2	0	1	
									OIPA	1	0	0	0	
									CHLE	1	0	0	0	
									CAHE	10	2	11	9	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkerstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	E	2	2		7	LEDE	1	0	0	0	
									KOSC	8	6	9	6	
									OPPO	0	4	0	0	
									STCO	0	1	0	0	
									SAIB	2	5	11	10	
									ARFR	0	0	0	1	
									SIHY	1	0	0	0	
ESA		7	03	E	2	2		8	SPCO	2	2	0	2	
									KOSC	30	45	47	80	
ESA		7	03	E	2	2		9	SAIB	6	15	5	5	
									KOSC	45	13	15	20	
									~~BOER~~	~~0~~	~~0~~	~~✓~~	~~0~~	
									SPCO	0	0	3	3	
									ARFR	0	0	0	1	
ESA		7	03	E	2	2		10	KOSC	43	47	44	58	
									CAHE	0	4	0	2	
									SPCO	0	0	1	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkenstorfer
Data Entered By_____

Date of Collection 7.22.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	E	2	1	10	ARFR	1	0	0	2	
								KOSC	11	5	2	11	
								SAIB	8	9	7	5	
								SPCO	1	3	1	3	
								CRJA	0	4	4	0	
ESA		7	03	E	2	3	9	ARFR	1	1	0	0	
								SAIB	0	0	9	9	
								KOSC	60	9	29	49	
								SPCO	1	1	0	0	
								~~BOGR~~	~~0~~	~~✓~~	~~0~~	~~0~~	
								AGSM	0	0	1	0	
ESA		7	03	E	2	3	8	SPCO	0	1	2	0	
								KOSC	32	25	40	52	
								SAIB	3	7	6	1	
								CAHE	10	5	17	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Blecker
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	E	2	1	8	KOSC	14	22	18	25	
								SAIB	1	7	5	3	
								CHLE	—	—	—	1	
								CRJA	—	—	2	—	
								SPCO	—	—	—	2	
ESA	D	7	03	E	2	1	9	KOSC	7	4	12	10	
								SAIB	15	17	8	12	
								ARFR	—	1	1	1	
								SPCO	1	1	2	—	
								ASOX	—	1	—	—	
ESA	D	7	03	E	2	3	10	KOSC	5	33	10	6	
								SAIB	12	2	6	6	
								CRJA	3	2	3	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Bleeker
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	E	2	1		6	SAIB	18	6	2		
									~~BOGR~~	~~—~~	~~—~~	~~—~~		
									ARFR	—	1	2		
									THMR	—	2	1		
									STCO	1	3	—		
									~~BOGR~~					
									KOSC	1	—	—		
									SPCO	1	1	—		
ESA	D	7	03	E	2	1		7	KOSC	3	3	—	1	
									SAIB	16	8	3	3	
									ARFR	—	1	—	—	
									SPCO	—	1	2	1	
									STCO	—	—	1	1	
									~~BOGR~~	~~—~~	~~—~~	~~—~~	~~—~~	
									CHLE	1	—	—	—	
									CAHE	—	—	4	3	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecka

Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	E	2	1		3	KOSC	10	6	3	18	
									~~BOGR~~	—	✓	✓	—	
									CHLE	—	5	10	5	
									SAIB	3	9	2	—	
ESA	D	7	03	E	2	1		4	ARFR	1	—	—	—	
									STCO	2	1	2	—	
									KOSC	—	—	4	5	
									SAIB	1	4	5	2	
									SPCO	2	5	—	—	
									~~BOGR~~	✓	✓	✓	✓	
									CAHE	7	—	—	—	
									AGSM	—	—	7	—	
ESA	D	7	03	E	2	1		5	KOSC	2	2	5	1	
									~~BOGR~~	✓	✓	✓	✓	
									STCO	2	2	2	3	
									CHLE	1	—	—	—	
									THTR	2	—	—	—	
									SAIB	10	5	3	1	
									AGSM	—	—	3	—	
									ARLO	—	—	—	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Becker

Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	E	2	1		1	~~STCO~~	~~Ø~~	~~—~~	~~—~~	~~—~~	
									OPPO	7	20	16	18	
									THTR	1	—	—	1	
									LEPE	Ø	—	—	1	
									SAIB	2	4	—	3	
									~~BOGR~~	~~✓~~	~~✓~~	~~✓~~	~~—~~	
									SPCO	1	1	—	—	
									AGSM	8	6	5	3	
									KOSC	—	—	—	2	
ESA	D	7	03	E	2	1		2	KOSC	2	2	1	~~2~~	
									SAIB	3	3	3	2	
									AGSM	6	8	—	—	
									~~BOGR~~	~~—~~	~~—~~	~~✓~~	~~—~~	
									SPCO	2	1	3	2	
									ARFR	—	—	—	1	
									CAHE	5	—	4	12	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. GRADY
Data Entered By

✓ = Present
NP = Not Present

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	1		10	OPPO	6	5	3	3	
									SAIB	5	2	1	Ø	
									STCO	1	2	1	Ø	
									ARFR	Ø	Ø	1	2	
									KOSC	Ø	1	Ø	Ø	
									CHLE	1	Ø	Ø	Ø	
									~~BOGR~~	~~✓~~	~~✓~~	~~NP~~	~~✓~~	
									THTR	Ø	Ø	1	Ø	
									LEDE	Ø	Ø	Ø	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. GRADY
Data Entered By

✓ = PRESENT
NP = NOT PRESENT
Density

Date of Collection 7/23/03

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	1		1	ARFR	1	1	1	4	
									CHLE	24	3	17	4	
									SAIB	9	16	6	1	
									~~BOGR~~	~~NP~~	~~✓~~	~~✓~~	~~NP~~	
									CAHE	3	2	11	9	
									SIHY	Ø	1	Ø	Ø	
								2	OPPO	13	18	9	8	
									CHLE	12	17	38	33	
									SAIB	9	9	4	4	
									SIHY	1	1	1	2	
									CAHE	3	15	3	11	
									ARFR	Ø	1	Ø	Ø	
								3	STCO	1	1	Ø	1	
									CHLE	24	20	26	24	
									ARFR	1	1	Ø	Ø	
									OPPO	Ø	1	Ø	Ø	
									SAIB	5	1	Ø	1	
									KOSC	2	1	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. GRADY
Data Entered By

Page 9 of 27
Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	1			~~BOGR~~	~~NP~~	~~✓~~	~~✓~~	~~✓~~	
								4	SAIB	12	3	2	4	
									CHLE	16	3	1	4	
									LEDE	1	Ø	Ø	Ø	
									OPPO	2	14	1	10	
									STCO	Ø	1	2	Ø	
									SPCO	1	Ø	2	1	
								5	KOSC	19	24	Ø	3	
									SAIB	4	9	24	11	
									OPPO	4	Ø	Ø	9	
									STCO	Ø	1	2	1	
									ARFR	1	Ø	Ø	1	
									SPCO	Ø	Ø	Ø	2	
								6	KOSC	18	6	1	2	
									SPCO	5	Ø	1	3	
									STCO	1	2	3	4	
									OPPO	5	10	8	Ø	
									SAIB	7	2	3	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. GRADY
Data Entered By /

V = PRESENT
NP = NOT PRESENT
Density

Date of Collection 7/23/03

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	1		7	SAIB	3	10	5	7	
									STCO	5	3	4	5	
									CHLE	Ø	2	1	Ø	
									~~BOGR~~	~~✓~~	~~✓~~	~~NP~~	~~NP~~	
								8	OPPO	12	7	6	11	
									CHLE	3	4	7	1	
									ARFR	1	Ø	Ø	Ø	
									SAIB	1	3	3	3	
									KOSC	Ø	Ø	Ø	4	
									STCO	Ø	1	3	Ø	
									~~BOGR~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	
									CAHE	8	12	3	9	
								9	OPPO	12	10	18	Ø	
									SAIB	2	3	Ø	1	
									CHLE	2	6	Ø	1	
									STCO	2	1	2	3	
									CAHE	3	28	12	17	
									KOSC	Ø	1	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Rafering
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	F	2	3	0	1	CHLE	6	0	2	3	
									SAIB	3	1	0	5	
									OPPO	0	6	12	0	
									SPCO	0	0	1	0	
									CRJA	0	1	0	0	
									STCO	2	4	0	1	
									CAHE	0	0	0	5	
						3	0	2	ARFR	0	1	1	1	
									CHLE	2	2	1	4	
									SAIB	6	1	1	3	
									OPPO	2	0	5	2	
									SPCO	0	0	2	2	
									STCO	1	0	1	1	
									CAHE	5	5	3	5	
						3	0	3	CHLE	7	10	10	3	
									LEDE	1	0	0	0	
									SAIB	3	1	1	3	
									ARFR	0	1	0	1	
									STCO	0	0	0	1	
									CAHE	5	10	20	5	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	F	2	3	0	4	LEDE	1	0	0	0	
									CHLE	3	2	5	10	
									OPPO	1	6	4	3	
									ARFR	0	1	1	1	
									SPCO	0	0	0	2	
									~~BUDA~~	~~0~~	~~0~~	~~✓~~	~~0~~	
									~~BOGR~~	~~✓~~	~~0~~	~~0~~	~~✓~~	
									ELVI	1	1	0	0	
									CAHE	5	5	5	10	
									SAIB	0	2	0	2	
						3	0	5	SAIB	3	2	1	3	
									SPCO	5	0	0	0	
									ARFR	0	2	0	0	
									CHLE	4	7	10	10	
									LEDE	0	0	1	0	
									~~BOGR~~	~~✓~~	~~0~~	~~✓~~	~~0~~	
									CAHE	0	5	5	0	
									KOSC	2	0	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	F	2	3	0	6	SPCO	4	0	0	0	
									SAIB	2	5	6	8	
									ARFR	1	0	0	0	
									CHLE	1	0	3	0	
									OPPO	0	0	4	8	
									SIHY	1	0	0	1	
						3	0	7	SPCO	2	0	2	0	
									ARFR	2	2	0	0	
									SAIB	2	0	0	1	
									OPPO	0	3	0	0	
									CHLE	0	0	1	4	
									CAHE	10	5	10	10	
									STCO	1	2	5	3	
						3	0	8	SAIB	1	1	0	3	
									CHLE	0	3	5	0	
									STCO	1	3	4	1	
									SIHY	1	0	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Rutering
Data Entered By

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	F	2	3	0	9	LEDE	1	0	0	0	
									CHLE	3	6	7	4	
									SAIB	3	7	5	4	
									ARFR	0	1	0	0	
									SPCO	0	2	1	0	
									STCO	0	0	0	1	
									CAHE	20	0	10	10	
						3	1	0	LEDE	1	0	0	0	
									KOSC	1	0	1	0	
									CHLE	0	5	0	2	
									SAIB	4	4	5	10	
									SPCO	0	1	1	0	
									ARFR	1	0	0	0	
									SIHY	1	0	1	0	
									CAHE	5	10	5	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blecker

Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	4		9	CHLE	2	4	2	8	
									~~ASOX~~	~~1~~				
									SAIB	3	6	3	1	
									ASOX	1	—	—	—	
									ARFR	1	—	—	—	
									CAHE	3	2	—	—	
									SPCO	—	1	—	—	
									SIHY	1	—	1	—	
									CHGL	—	2	2	—	
ESA	D	7	03	F	2	4		10	SAIB	2	4	5	2	
									SIHY	1	1	—	2	
									CHLE	2	1	3	3	
									ARFR	—	—	1	—	
									~~BOGR~~	✓	—	—	NG	
									SPCO	—	1	—	—	
									CHGL	—	3	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Blacken
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	4		7	DYPA	1	—	—	—	
									SPCO	1	1	3	2	
									CHLE	2	2	2	2	
									SAIB	4	3	4	1	
									SIHY	1	1	—	1	
									STCO	3	—	1	—	
									ARFR	2	2	1	1	
									~~EEDE~~	—	1	—	—	
									~~BOGR~~	~~—~~	~~✓~~	~~✓~~	~~—~~	
ESA	D	7	03	F	2	4		8	ARFR	—	1	3	1	
									OPPO	16	5	9	2	
									SPCO	2	—	—	—	
									SIHY	2	2	—	—	
									SAIB	2	2	1	3	
									CAHE	4	2	1	2	
									CHLE	—	—	1	—	
									KOSC	—	—	—	2	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Blecker, Steve
Data Entered By_____

Date of Collection 23 July 2003

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	4		4	SPCO	2	2	—	6	
									OPPO	9	—	—	3	
									CHLE	3	1	—	2	
									SAIB	10	7	5	1	
									SIHY	—	1	—	1	
									CAHE	12	14	8	3	
									~~BOGR~~	—	—	✓	—	
ESA	D	7	03	F	2	4		5	SIHY	1	—	1	1	
									SAIB	—	3	1	1	
									CHLE	5	3	—	4	
									SPCO	—	3	2	—	
									CAHE	6	2	3	8	
									BOGR	✓	✓	—	—	
ESA	D	7	03	F	2	4		6	~~BOGR~~	✓	✓	—	✓	
									STCO	2	—	1	1	
									CHLE	1	1	1	1	
									OPPO	3	2	—	—	
									SAIB	5	2	3	4	
									SPCO	—	—	1	3	
									KOSC	1	—	—	—	
									ARFR	—	1	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Steve Bleker
Data Entered By_____

Date of Collection 7/23/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	F	2	4		1	CHLE	1	5	3	6	
									SAIB	3	6	8	7	
									CHGL	—	—	1	—	
									CAHE	24	2	—	3	
									KOSC	1	14	—	—	
									SIHY	1	1	—	2	
ESA	D	7	03	F	2	4		2	KOSC	7	15	—	4	
									SAIB	8	7	4	8	
									CHLE	6	—	3	8	
									SIHY	1	—	—	—	
									OPPO	2	—	8	6	
									SPCO	1	—	1	1	
ESA	D	7	03	F	2	4		3	CHLE	8	3	4	4	
									SAIB	6	8	5	8	
									OPPO	—	13	12	—	
									SIHY	—	2	—	—	
									KOSC	—	—	1	—	
									LEDE	—	—	—	1	
									ARFR	—	—	—	1	

ARS Study #3 (ESA)

PI – Dan Milchunas

Recorder Adam Gayford

Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	F	2	S	0	5	OPPO	5	13	11	3	
									SIHY	1	1	—	—	
									SPCO	2	5	8	—	
									CHLE	2	8	2	2	
							0	4	SPCO	—	2	2	—	
									SAIB	2	2	4	7	
									ARFR	2	—	1	1	
									CHLE	2	8	2	10	
									SIHY	1	—	—	—	
									KOSC	—	1	—	—	
									PEJA	—	3	1	—	
							0	3	CHLE	20	9	20	6	
									SAIB	2	2	1	2	
									SPCO	—	4	—	—	
									CAHE	—	5	8	—	
									KOSC	7	3	—	—	
									~~BOCL~~	—	✓	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Page 20 of 27
Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Don	07	03	F	2	5	0	2	CHLE	4	16	1	—	
									LEDE	—	1	—	—	
									ARFR	1	—	3	1	
									SPCO	—	4	4	—	
									SAIB	4	1	2	—	
									CAHE	5	7	5	6	
							0	1	KOSC	—	1	—	—	
									SAIB	18	14	11	8	
									CHLI	3	3	3	1	
									OPPO	5	—		4	
							0	6	OPPO	13	19	7	16	
									ACSM	—	—	11	7	
									STCO	2	—	—	—	
									SAIB	4	8	1	3	
									CHLE	—	2	1	—	
									SPCO	1	1	—	—	
									CAHE	3	2	5	8	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	F	2	5	0	7	CHLE	7	5	2	1	
									LEDE	2	—	1	—	
									SAIB	1	—	2	3	
									SIHY	—	—	1	1	
									STCO	—	1	—	—	
									~~BOCR~~	~~—~~	~~—~~	~~—~~	~~✓~~	
									MUTO	1	2	3	—	
							0	8	ARFR	—	—	2	1	* Burrow in
									EREF	1	—	—	—	QP #4
									OPPO	—	2	—	—	~2in diameter
									SIHY	—	1	—	—	
									SPCO	2	—	—	2	
									STCO	—	—	1	1	
									CAHE	—	2	6	3	
									KOSC	—	—	1	—	
									SAIB	—	1	—	2	
									CHLE	—	4	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	F	2	5	0	9	EREF	—	—	1	1	
									ARFR	1	—	—	1	
									CHLE	—	2	1	1	
									SAIB	6	5	7	1	
									CAHE	—	—	6	8	
									SIHY	1	—	—	—	
						1	0		STCO	1	1	—	—	
									ARFR	—	1	—	1	
									SAIB	4	20	20	7	
									CHLE	—	1	1	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

D - Density
✓ - Present

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	F	2	2	ϕ	7	SPCO	1	2	5	1	
									~~BODA~~	~~ϕ~~	~~✓~~	~~ϕ~~	~~ϕ~~	
									SAID	ϕ	2	ϕ	ϕ	
									OPPO	5	7	16	12	
									ARFR	ϕ	ϕ	ϕ	2	
									CAHE	10	10	5	12	
ESA	D	07/03	F	2	2	1	6		SIHY	4	2	ϕ	2	
									~~BOGR~~	~~✓~~	~~ϕ~~	~~ϕ~~	~~ϕ~~	
									SPCO	1	ϕ	ϕ	ϕ	
									OPPO	9	9	13	10	
									CHLE	1	1	2	ϕ	
									SAID	2	6	7	10	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver

Data Entered By_____

Date of Collection 7/23/03

Density

D-Density
V-Presence

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	F	2	2	Ø	7	ARFR	1	1	Ø	Ø	
									CAHE	20	20	15	10	
									SPCO	Ø	2	1	1	
									OPPO	Ø	3	7	Ø	
									CHLE	Ø	2	2	Ø	
									SAIB	Ø	2	3	2	
ESA	D	07	03	F	2	2	Ø	8	CRJA	1	Ø	Ø	Ø	
									SAIB	3	3	5	1	
									ARFR	Ø	1	1	Ø	
									OPPO	Ø	Ø	12	3	
									SPCO	Ø	1	1	Ø	
									CAHE	10	5	10	15	
									CHLE	1	Ø	Ø	2	
									STCO	Ø	3	Ø	Ø	
									PACH	Ø	1	Ø	Ø	
									LEDE	1	Ø	Ø	Ø	
									~~BOGR~~	Ø	Ø	Ø	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

D- Density
✓ - Present

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	F	2	2	ø	5	SAZB	5	5	9	3	
									OPPO	ø	9	14	8	
									CHLE	3	6	9	11	
									ARFR	ø	ø	ø	ø	
									~~BOGR~~	~~ø~~	~~ø~~	~~ø~~	~~✓~~	
									SPCO	ø	ø	ø	1	
ESA	D	07	03	F	2	2	ø	6	SAZB	5	2	2	10	
									CHLE	2	ø	7	2	
									SPCO	1	2	3	2	
									OPPO	ø	ø	6	3	
									~~BOGR~~	~~✓~~	~~ø~~	~~ø~~	~~✓~~	
									KOSC	ø	✓	ø	ø	
									CAHE	ø	ø	5	4	
									SIHY	ø	ø	1	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

Density

D-Density
✓-Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		F	2	2	ø	3	ARFR	1	2	ø	1	
									SAIB	4	3	1	ø	
									CHLE	3	15	25	13	
									CAHE	10	15	10	15	
									~~BOGR~~	✓	ø	ø	ø	
									SPCO	ø	1	ø	ø	
									ECVI	ø	3	1	ø	
ESA	D	07/03		F	2	2	0	4	ARFR	1	ø	ø	ø	
									SAIB	10	11	17	12	
									SPCO	2	1	ø	ø	
									CHLE	16	13	16	17	
									~~BOGR~~	✓	✓	✓	✓	
									CAHE	ø	ø	10	ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/23/03

D - Density
✓ - Presence

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03		F	2	2	ø	1	STCO	2	ø	1	ø	
									CHLE	17	11	16	17	
									SAIB	4	7	7	2	
									ECVI	1	ø	ø	ø	
									~~BOGR~~	~~ø~~	~~✓~~	~~✓~~	~~✓~~	
									ARPR	ø	ø	1	ø	
									OPPO	ø	ø	ø	3	
									CAHE	ø	ø	ø	12	
ESA	D	07/03		F	2	2	ø	2	CAHE	10	10	15	10	
									SAIB	5	5	2	3	
									CHLE	31	29	19	14	
									SPCO	ø	ø	1	1	
									OPPO	ø	ø	ø	8	
									LEDE	ø	1	4	ø	
									~~BOGR~~	~~ø~~	~~✓~~	~~✓~~	~~ø~~	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Patering
Data Entered By_____

Page 10 of 32
Date of Collection 7/22/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	D6	2	5	0	5	CHLE	1	1	1	1	
									SPCO	1	0	2	2	
									SAIB	20	7	5	10	
									KOSC	0	1	0	0	
									BOGR	0	0	1	0	
									CAHE	0	5	5	5	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Grady
Data Entered By

✓ = Present
NP = Not Present
Density

Date of Collection 7/24/03

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	4		8	OPPO	Ø	Ø	15	5	
									STCO	2	1	Ø	1	
									SAIB	1	Ø	Ø	Ø	
									SPCO	1	1	1	Ø	
									ECVI	Ø	1	Ø	Ø	
									BOGR	✓	✓	✓	✓	
									CAHE	7	12	18	29	
						3		10	ARFR	1	Ø	Ø	Ø	
									SPCO	1	Ø	Ø	Ø	
									SAIB	5	3	2	5	
									CHAL	Ø	Ø	2	Ø	
									STCO	Ø	Ø	Ø	1	
									BOGR	✓	✓	✓	✓	
									OPPO	2	Ø	Ø	Ø	
									CAHE	6	3	2	5	
						2		9	ARFR	1	2	1	1	
									SPCO	Ø	Ø	4	2	
									OPPO	4	2	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. GRAdy
Data Entered By

✓ = Present
NP = Not Present
Density

Date of Collection 7/24/03

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species (continued...)	Quarter Plot 1	2	3	4	Notes
ESA	D	7/03	DG	2				9	AGSM	4	Ø	Ø	2	
									SIHY	Ø	Ø	1	Ø	
									SAIB	Ø	1	3	Ø	
									CHLE	1	Ø	1	1	
									BOGR	✓	✓	NP	NP	
						1		5	ARFR	1	Ø	Ø	Ø	
									STCO	2	1	1	3	
									CHAL	Ø	Ø	1	1	
									SAIB	1	Ø	Ø	Ø	
									ECVI	Ø	1	Ø	Ø	
						1		4	STCO	1	1	1	1	
									SAIB	1	1	2	2	
									SPCO	1	Ø	1	Ø	
									CHAL	5	1	4	Ø	
									OPPO	Ø	9	Ø	Ø	
									ECVI	Ø	1	Ø	Ø	
									BOGR	✓	✓	NP	✓	
									MILI	1	Ø	Ø	Ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Brady
Data Entered By_____

✓ = Present
NP = Not Present

Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	5		1	HASP	Ø	Ø	Ø	1	
									OPPO	9	7	5	Ø	
									ARFR	1	1	1	1	
									PSTE	1	Ø	Ø	Ø	
									SAIB	1	3	1	Ø	
									CHAL	Ø	Ø	2	1	
									SPCO	Ø	1	3	Ø	
									STCO	2	2	1	Ø	
									BOGR	✓	✓	✓	✓	
						1		3	STCO	1	1	1	4	
									SAIB	4	Ø	Ø	6	
									OPPO	3	Ø	Ø	2	
									CHAL	Ø	2	1	Ø	
									HASP	Ø	Ø	1	Ø	
									ECVI	1	5	Ø	Ø	
									BOGR	✓	✓	✓	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Dan	07	03	DB	2	1	1	0	CHLE	—	—	1	1	
									SAIB	2	5	1	2	
									SPCO	5	3	7	8	
									BOGR	—	✓	✓	✓	
									CAHE	10	12	9	18	
									CRJA	2	—	—	—	
						5	0	6	CAHE	—	3	9	11	
									BOGR	✓	✓	✓	✓	
									CHLE	—	—	—	2	
									SAIB	3	1	2	4	
									ARFR	1	—	—	—	
									OPPO	—	9	5	4	
									ARLO	—	1	1	—	
									SPCO	1	1	—	1	
									ECVE	—	—	2	—	?
									PSTE	1	—	—	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	DG	2	4	0	2	SIHY	—	2	1	1	
									STCO	1	5	3	—	
									SAIB	6	4	2	3	
									OPPO	—	—	13	4	
									SPCO	—	8	—	2	
									CAHE	—	5	3	—	
						4	0	7	CALE	—	1	1	—	
									OPPO	—	—	6	—	
									BOGR	✓	✓	✓	✓	
									STCO	3	1	1	1	
									SAIB	3	2	2	1	
									SPCO	—	1	—	—	
									ECVE	—	—	1	—	
						3	0	9	OPPO	1	4	5	5	
									STCO	3	2	—	1	
									SPCO	4	5	3	—	
									SAIB	—	2	1	—	
									KOSC	—	1	—	—	
									ECVE	1	—	1	—	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Adam Gaylord
Data Entered By_____

Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	07	03	D6	2	5	0	7	ARFR	–	–	–	2	
									SPCO	4	2	7	4	
									STCO	2	1	2	1	
									OPPO	5	3	12	–	
									SAIB	1	8	2	4	
									CAHF	–	6	7	3	
									CHLF	1	–	–	–	
									LEDF	–	–	–	1	
									ECVF	1	–	–	–	?
						1	0	8	CHLE	1	–	2	2	
									ARFR	–	1	–	–	
									SAIB	4	4	1	8	
									SPCO	1	2	6	3	
									BOGR	–	–	✓	–	
									OPPO	3	–	–	–	
									CAHF	7	2	5	5	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkerstorfer
Data Entered By_____

Date of Collection 7.24.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	DG	2	4		4	SIAB	4	9	6	10	Flag 14
									STCO	1	0	0	1	
									CRJA	2	2	0	0	
									SPCO	0	1	2	2	
ESA		7	03	DG	2	4		6	STCO	2	1	2	3	
									BOGR	✓	✓	✓	✓	
									CHLE	0	1	0	0	
									CAHE	7	0	0	0	
									SPCO	1	0	1	0	
									ARLO	1	1	3	1	
									SAIB	2	0	0	0	
ESA		7	03	DG	2	3		8	SAIB	1	2	0	3	
									SPCO	2	3	3	4	
									CHLE	1	1	0	0	
									STCO	1	0	1	0	
									CAHE	21	22	28	21	
									ECVI	2	0	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wollenstorfer
Data Entered By_____

Date of Collection 7.24.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
? ESA		7.	03	DG	2	? 3	? 7	ARFR	0	1	1	0	
								ECUI	1	0	0	0	
								SAIB	2	0	0	2	
								STCO	1	3	2	2	
								SIHY	0	0	0	1	
ESA		7	03	DG	2	2	4	OPPO	13	18	11	11	
								STCO	1	1	0	0	
								SPCO	2	0	0	2	
								ARFR	1	0	0	1	
								BOGR	✓	✓	✓	✓	
								Unk	0	1	0	0	
								SIAB	0	2	3	0	
								CAHE	20	15	25	32	
ESA		7	03	DG	2	5	2	LEDE	0	0	0	4	
								SPCO	2	2	1	3	
								SAIB	3	5	3	4	
								OPPO	8	0	0	0	
								CAHE	15	27	26	25	
								CHAL	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Heather Wolkustorfer
Data Entered By_____

Date of Collection 7.24.03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA		7	03	DG	2	2		3	CRJA	1	0	0	0	
									STCO	2	2	2	1	
									KOSC	0	2	0	0	
									OPPO	0	0	5	0	
									CHLE	0	0	2	8	
									SPCO	0	2	0	0	
ESA		7	03	DG	2	2		2	CHLE	3	3	3	2	
									OPPO	4	4	0	0	
									STCO	2	1	2	2	
									KOSC	0	0	1	0	
									BOGR	✓	0	✓	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Vogel
Data Entered By_____

Date of Collection 7-24

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect	Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	July	2003	DG	2	5	4	silg	1	1	0	0	
								stco	1	1	1	1	
								chle	3	1	1	0	
								kosc	0	0	0	1	
								sarb	1	2	1		1
								oppo	0	7	0	0	
								cahe	4	3	1	5	
								Bogr	✓	✓	✓	✓	
ESA	Density	July	2003	DG	2	3	4	chle	1	0	3	2	
								Oppo	3	4	0	1	
								Lede	0	1	1	0	
								Sarb	3	0	3	1	
								Spco	0	4	0	1	
								Thtr	0	1	1	0	
								silg	0	0	0	1	
								Cahe	6	4	5	11	
								Bogr	✓	✓	✓	✓	
ESA	Density	July	2003	DG	2	3	3	Stco	0	0	0	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder B. Vogel
Data Entered By_____

Date of Collection 7-24

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	DG	2	3		3 and 4	Sihy	3	0	0	0	
									Lede	0	1	0	0	
									chle	0	1	3	7	
									Sa.b	0	2	0	1	
									Spco	0	0	2	0	
									Cahe	7	5	2	5	
									Bogr	0	✓	✓	0	
ESA	Density	July 2003		DG	2	3		1	Oppo	4	2	5	12	
									Chle	0	0	1	2	
									Sa.b	2	1	0	1	
									Spco	2	1	1	1	
									Stco	0	1	0	0	
									Sihy	1	1	1	0	
									Cahe	2	4	6	7	
									Bogr	✓	✓	✓	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	D6	2	4	0	3	CRJA	0	1	0	0	
							—		ARFR	0	1	0	0	
									ECVI	1	0	0	0	
									OPPO	0	0	3	1	
									SPCO	0	0	2	1	
									STCO	4	2	2	3	
									CAHE	10	15	10	5	
									BOGR	0	✓	0	0	
						4	0	9	SPCO	2	1	0	1	
									OPPO	9	9	11	12	
									SAIB	0	0	1	1	
									BOGR	✓	✓	✓	✓	
									SPCR	0	0	1	0	
						5	0	8	SPCO	3	4	6	6	
									CHLE	1	0	0	0	
									SAIB	3	5	1	1	
									BOGR	✓	✓	✓	✓	
									BUDA	✓	✓	0	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Page 23 of 32
Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	DG	2	2	0	6	CHLE	2	1	1	0	
									SPCO	2	1	2	0	
									SAIB	2	3	2	2	
									ARFR	0	0	0	1	
									EREF	0	0	1	0	
									OPPO	3	10	0	4	
									ECUI	0	1	0	0	
									BOGR	✓	✓	✓	✓	
						2	0	5	SPCO	3	0	0	2	
									CHLE	3	0	0	0	
									SAIB	1	6	0	4	
									OPPO	0	0	0	14	
									BOGR	✓	✓	✓	✓	
									CAHE	20	15	10	5	
									LEDE	0	0	1	0	
						2	0	1	CHLE	6	7	2	1	
									SPCO	0	0	0	1	
									SAIB	2	0	3	1	

← cont.

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Rakering
Data Entered By_____

Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	DG	2	2	0	1	ECUI	0	0	1	0	
									LEDE	0	1	0	0	
									CRJA	0	1	1	0	
									STCO	1	0	3	0	
									ARLO	0	0	0	1	
									BOGR	✓	✓	✓	✓	
									SIHY	0	0	1	1	
						1	0	1	CHLE	0	1	0	1	
									SPCO	0	3	1	0	
									SAIB	0	1	1	0	
									CRJA	0	0	1	0	
									ECUI	0	1	0	1	
									CAHE	5	15	15	15	
									SPCR	0	1	0	2	
									BOGR	✓	✓	✓	✓	
									ARLO	0	1	1	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder S. Ratering
Data Entered By_____

Date of Collection 7/24/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Density	07	03	DG	2	1	0	2	CHLE	8	2	3	3	
									CHAL	0	0	1	0	
									SPCO	1	0	0	0	
									SAIB	3	1	4	3	
									OPPO	4	0	0	5	
									CAHE	10	10	10	5	
									STCO	1	2	2	1	
									OROB	0	0	0	1	
									BOGR	✓	0	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/24/03

Density

B- 4, 26
J- 8
A- 3, 37
L- 4 1/3 50
DG- 7

D- Density
J- Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	DG	2	1	ø		6	STCO	2	3	2	1	
									ARFR	1	ø	ø	ø	
									SAIB	1	1	2	3	
									SPCO	1	3	2	3	
									LAHG	10	30	5	10	
									BOGR	ø	ø	✓	ø	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/24/03

D-Density
✓-Present

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	DG	2	2	∅		7	ARFR	1	1	∅	∅	
									OPPO	2	3	8	5	
									SPCO	∅	1	2	1	
									STCO	1	1	2	3	
									CHLE	1	∅	∅	1	
									SAID	∅	2	3	1	
ESA	D	07/03	DG	2	5	∅		3	STCO	1	1	∅	∅	
									SAID	1	2	1	4	
									SPCO	1	1	2	1	
									OPPO	6	9	17	7	
									CHLE	∅	5	3	1	
									BOGR	∅	✓	✓	✓	
									BOHI	∅	∅	1	2	
ESA	D	07/03	DG	2	3	∅		2	SAID	5	1	∅	∅	
									SPCO	1	∅	∅	∅	
									CHLE	3	2	1	3	
									CESA	∅	∅	1	∅	
									CAHE	25	25	10	10	
									ARLO	∅	∅	1	1	
									BOGR	✓	✓	∅	✓	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Wear
Data Entered By_____

Date of Collection 7/24/03

Density

D - Density
✓ - Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07	03	DG	2	4	1	0	SAIB	1	1	ϕ	ϕ	
									LEDE	ϕ	1	ϕ	ϕ	
									SPCO	1	2	2	ϕ	
									ECUI	1	ϕ	ϕ	ϕ	
									BOGR	✓	✓	✓	✓	
									CAHE	ϕ	5	ϕ	ϕ	
ESA	D	07	03	DG	2	2	1	0	OPPO	12	9	11	3	
									CHLE	1	ϕ	2	1	
									CAHE	15	5	15	5	
									SAIB	1	2	3	ϕ	
									SPCO	ϕ	1	ϕ	ϕ	
									MILI	1	ϕ	ϕ	ϕ	
									BOGR	✓	✓	✓	✓	
									STCO	ϕ	ϕ	ϕ	2	
									ARLO	ϕ	1	ϕ	ϕ	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder Jamie Weaver
Data Entered By_____

Date of Collection 7/24/03

Density

D-Density
1-Present

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	07/03	DG	2	4	ϕ		1	SPCO	1	2	2	1	
									STCO	1	1	2	2	
									ARFR	ϕ	1	1	ϕ	
									STHY	1	1	ϕ	ϕ	
									KOSC	ϕ	ϕ	ϕ	1	
									SAID	ϕ	ϕ	1	ϕ	
									BOGR	✓	ϕ	✓	✓	
									LICH	1	ϕ	ϕ	ϕ	
									CHLE	ϕ	1	ϕ	2	
									ARLO	ϕ	ϕ	1	2	
ESA	D	07/03	DG	2	5	1		0	STCO	5	2	2	2	
									CHLE	4	3	ϕ	4	
									LEDE	ϕ	1	ϕ	ϕ	
									ECVI	3	ϕ	ϕ	ϕ	
									OPPO	ϕ	ϕ	13	ϕ	
									SAID	ϕ	ϕ	ϕ	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-24-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	-03	DG	2	5		5	Oppo	11	4	9	15	
									Arlo	0	1	1	1	
									Bogr	✓	✓	0	0	
									Spco	1	0	1	2	
									Chle	1	2	1	1	
									Stco	0	0	1	0	
									Saib	0	0	1	0	
									Kosc	0	0	0	1	
ESA	D	7	-03	DG	2	5		9	Oppo	7	5	1	0	
									Saib	1	3	1	0	
									Stco	1	1	0	0	
									Sihy	0	0	1	2	
									Spco	2	3	0	3	
									Chle	0	1	1	0	
									lede	0	1	0	0	
									Buda	✓	0	0	0	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder laura jamison
Data Entered By_____

Date of Collection 7-23-03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	D	7	03	DG	2	2		8	Saib	1	0	1	0	
									Spco	1	3	2	1	
									Sihy	0	0	1	1	
									Chle	2	1	0	1	
									Bogr	✓	✓	✓	✓	
									ArFr	0	0	2	0	
									Oppo	0	0	11	0	
ESA	D	7	03	DG	2	1		7	Lede	2	1	0	0	
									Chle	1	0	0	0	
									Stco	0	1	1	0	
									Oppo	0	3	12	1	
									Arlo	0	0	0	1	
									Mili	0	0	1	0	
									Spco	1	1	4	2	
									ArFr	1	0	0	1	
									lich	5	1	1	4	
									Bogr	✓	0	✓	✓	
									Cahe	5	3	15	3	
									Saib	0	0	1	1	

ARS Study #3 (ESA) PI – Dan Milchunas

Recorder April Shelhon
Data Entered By_____

Date of Collection 7/2/03

Density

Site	Data Type	Month	Year	Treatment	Rep	Transect		Plot	Species	Quarter Plot 1	2	3	4	Notes
ESA	Den	7.	2003	DGZ	2	4		5	SAIB	2	2	—	3	
									SPCO	1	+	1	1	
									BOGR	✓	✓	✓	✓	
									STCO	9	4	1	—	
									BUDA	—	✓	✓	✓	
						3		6	KOSC	42	8	2	41	
									SAIB	10	12	5	12	
									BOGR	—	✓	✓	—	
									ECVI	—	1	—	—	
									ARFR	—	—	2	—	
									CHLE	—	—	1	—	
									SPCO	—	—	4	2	
						1		9	SPPO	19	7	10	3	
									CHLE	2	3	4	—	
									BOGR	✓	✓	✓	—	
									MILI	2	—	—	1	
									CAHE	12	16	40	25	
									SPCO	—	—	1	3	