

Judith Hendryx

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To: "Dan Milchunas" <daniel.milchunas@colostate.edu>; "Judith Hendryx" <judith.hendryx@colostate.edu>
Sent: Tuesday, November 09, 2004 2:27 PM
Attach: Biomass from 24SW upland for Dan Milchunas 2004.xls
Subject: plant biomass data from 24SW upland 2004

Dan and Judy,

Please find attached the 2004 plant biomass data from 10 cages at the upland site in 24SW. If I remember correctly, the LTER crew clipped the southern most 5 cages (there are 3 lines of 5 cages each = 15 cages). We (along with the LTER crew) clipped the middle line of cages (numbered in the attached file as cages 1 through 5 with 1 being the western most cage in the line), and the northern most line of cages (numbered with 6 being the western most cage in the line).

We clipped by species from a 0.25 m² circular plot within each of the 1X1 meter exclosure cages. We also collected litter (denoted as LITT) and standing dead (denoted as SD) separate from the biomass by species. We did not collect the OPPO cladodes, rather we counted them as new (this year's growth) or old (previous year's). If you have any questions with the species codes please contact me and I will help in clarification.

I have asked Mary and Jeff to sort out these plant samples and I/they will get them to you ASAP.

Justin

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Sampled August 9-11, 2004

PAST	PLOT	CAGE	SPP	g/0.25m2
24SW	Upland	1	BUDA	1.86
24SW	Upland	1	SD	0.12
24SW	Upland	1	BOGR	2.15
24SW	Upland	1	SAIB	0.71
24SW	Upland	1	CAEL	0.41
24SW	Upland	1	SPCO	1.16
24SW	Upland	1	ARLO	0.33
24SW	Upland	1	LITT	11.9
24SW	Upland	2	ARLO	0.21
24SW	Upland	2	CAEL	0.14
24SW	Upland	2	SAIB	0.05
24SW	Upland	2	MILI	0.24
24SW	Upland	2	SPCO	0.74
24SW	Upland	2	BUDA	2.51
24SW	Upland	2	BOGR	4.16
24SW	Upland	2	SD	0.08
24SW	Upland	2	LITT	17.22
24SW	Upland	3	BUDA	4.96
24SW	Upland	3	SAIB	0.65
24SW	Upland	3	OPPO	3 NEW
24SW	Upland	3	OPPO	6 OLD
24SW	Upland	3	BOGR	8.63
24SW	Upland	3	SD	3.81
24SW	Upland	3	LITT	6.1
24SW	Upland	4	GUSA	1.39
24SW	Upland	4	BUDA	2.15
24SW	Upland	4	CAEL	0.24
24SW	Upland	4	BOGR	2.02
24SW	Upland	4	SD	1.13
24SW	Upland	4	LITT	39.67
24SW	Upland	5	ARLO	0.67
24SW	Upland	5	CAEL	0.34
24SW	Upland	5	BUDA	5.24
24SW	Upland	5	BOGR	0.62
24SW	Upland	5	SD	2.14
24SW	Upland	5	LITT	5.17
24SW	Upland	6	PASM	0.73
24SW	Upland	6	SPCO	0.04
24SW	Upland	6	SAIB	0.01
24SW	Upland	6	BUDA	2.53
24SW	Upland	6	CAEL	0.57
24SW	Upland	6	BOGR	7.51
24SW	Upland	6	SD	3.06
24SW	Upland	6	LITT	24.59
24SW	Upland	7	PASM	3.09
24SW	Upland	7	GUSA	0.42
24SW	Upland	7	BUDA	0.78
24SW	Upland	7	ARLO	0.1
24SW	Upland	7	SPCO	0.18
24SW	Upland	7	SAIB	0.07

24SW	Upland	7	CAEL	0.11
24SW	Upland	7	BOGR	2.44
24SW	Upland	7	SD	0.75
24SW	Upland	7	LITT	14.62
24SW	Upland	8	SPCO	1.3
24SW	Upland	8	BUDA	0.24
24SW	Upland	8	BOGR	2.21
24SW	Upland	8	OPPO	3 NEW
24SW	Upland	8	OPPO	6 OLD
24SW	Upland	8	SAIB	0.01
24SW	Upland	8	LITT	5.44
24SW	Upland	9	CAEL	1.11
24SW	Upland	9	ARFR	0.99
24SW	Upland	9	SD	0.05
24SW	Upland	9	BOGR	1.22
24SW	Upland	9	GUSA	9.39
24SW	Upland	9	BUDA	17.97
24SW	Upland	9	LITT	3.58
24SW	Upland	10	BUDA	2.49
24SW	Upland	10	CAEL	0.34
24SW	Upland	10	BOGR	5.03
24SW	Upland	10	PASM	1.32
24SW	Upland	10	SD	8.5
24SW	Upland	10	LITT	54.08
24SW	Upland	10	OPPO	6 NEW
24SW	Upland	10	OPPO	13 OLD
24SW	Upland	10	COVI	1

2004

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.2.04	SB	GG	10	21	19	UTIL	CAHE	.97	
							BOGR	6.85	
8.2.04	SB	GG	1C	1	15	NPP	SPCO/CAHE	.50	
							ARFR	.99	
							CAHE	.24	
							BOGR	6.55	
8.2.04	SB	GG	8C	*15	*63	UTIL	CAHE	.31	*cord on lg bag
							BUDA	.35	*cord on sm bags
							BOGR	6.64	(43,44)
8.2.04	SB	GG	2C	10	3	UTIL	CAHE	.32	
							SPCO	.34	
							BOGR	4.52	
8.2.04	SB	GG	5C	52	43	NPP	CAHE	1.75	
							SPCO	1.09	
							ARLO	.92	
							BOGR	6.81	
8.3.04	SB	GG	4	65	28	UTIL	CAHE	.53	
							BOGR	9.59	
8.2.04	SB	GG	2C	10	3	NPP	ARFR	.23	
							BOGR	4.51	
							AGSM	.70	
							CAHE	.94	
							SPCO	.02	
8.3.04	SB	GG	3	70	26	NPP	CAHE	.71	
							SPCO	.91	
							BOGR	8.57	
8.2.04	SB	GG	4	65	28	NPP	SPCO	.22	
							CAHE	.14	
							ARFR	.29	
							BUDA	.10	
							BOGR	8.35	
8.2.04	SB	GG	7	32	38	UTIL	CAHE	.04	
							SPCO	1.22	
							BOGR	8.34	
							BUDA	.45	
8.2.04	SB	GG	6C	43	44	UTIL	BOGR	5.63	
							CAHE	.78	
							SPCO	2.01	
8.2.04	SB	GG	9C	18	54	NPP	CAHE	1.36	
							BUDA	.15	
							AGSM	.20	
							BOGR	2.61	
8.2.04	SB	GG	6	28	62	NPP	SPCO	.94	
							CAHE	1.14	
							BUDA	.11	
							BOGR	3.53	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.2.04	SB	GG	9C	18	54	UTIL	AGSM	.68	
							ARFR	.93	
							CAHE	.75	
							BOGR	3.29	
8.2.04	SB	GG	1C	1	15	UTIL	CAHE	.08	
							CHAL	.12	
							BOGR	4.25	
8.2.04	SB	GG	6C	43	44	NPP	BUDA	.56	
							CAHE	.19	
							SPCO	1.20	
							BOGR	4.78	
8.2.04	SB	GG	10	21	19	NPP	ARFR	.54	
							CAHE	.14	
							PIOP	.32	
							SPCO	.54	
							BOGR	8.37	
8.2.04	SB	GG	7	32	38	NPP	SPCO	.88	
							CAHE	.28	
							BOGR	1.65	
							BUDA	4.59	
8.3.04	SB	GG	5C	52	43	UTIL	CAHE	1.16	
							SPCO	1.05	
							BOGR	6.02	
8.3.04	SB	GG	3	70	26	UTIL	CAHE	.22	
							SPCO	.98	
							BOGR	7.97	
8.2.04	SB	GU	4	7	65	NPP	BUDA	.73	
							BOGR	11.41	
8.2.04	SB	GU	9	40	51	NPP	SPCO	.32	
							AGSM	.22	
							CAHE	.09	
							BOGR	9.70	
8.2.04	SB	GU	1	33	18	NPP	SPCO	.78	
							BUDA	.03	
							CAHE	1.21	
							BOGR	6.02	
8.2.04	SB	GU	6	70	27	NPP	SPCO	1.03	
							ARFR	.31	
							BOGR	6.89	
8.2.04	SB	GU	3	26	33	NPP	AGSM	.13	
							BOGR	7.36	
8.2.04	SB	GU	8	50	48	NPP	CAHE	.51	
							SPCO	.67	
							BOGR	7.77	
8.2.04	SB	GU	7	60	36	NPP	CAHE	.33	
							SPCO	.28	
							BOGR	16.53	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.29.04	7	UG	8	39	43	NPP	STCO	1.15	
							SPCR	2.18	
							BOGR	24.83	
7.29.04	7	UG	7C	24	47	UTIL	STCO	.02	
							SPCO	.15	
							SPCR	1.36	
							EREF	2.17	
							LEDE	.36	
							BOGR	6.15	
7.30.04	7	UG	6C	13	27	UTIL	CAHE	1.54	
							SPCR	.04	
							BUDA	.22	
							BOGR	11.42	
7.30.04	7	UG	1	47	3	UTIL	CAHE	3.08	
							FUGL	.39	
							SPCR	.67	
							SPCO	.32	
							BOGR	3.10	
7.29.04	7	UG	7C	24	47	NPP	SPCO	.28	
							SPCR	1.02	
							STCO	.55	
							BOGR	13.07	
7.30.04	7	UG	10	49	32	UTIL	CAHE	.08	
							SPCR	1.02	
							BOGR	9.66	
7.30.04	7	UG	2	38	9	UTIL	x	.25	SPCO+SAIB
							CAHE	.51	
							BOGR	.82	
7.30.04	7	UG	2	38	9	NPP	STCO	.13	
							CAHE	.44	
							SPCO	.31	
							SPCR	.41	
							BOGR	27.77	
7.30.04	7	UG	10	49	32	NPP	BOGR	17.26	
							CAHE	.73	
							STCO	.06	
							SPCR	1.56	
							BUDA	.15	
7.29.04	7	UG	9	47	50	UTIL	SPCR	1.70	
							SPCO	.66	
							BOGR	17.32	
7.30.04	7	UG	4C	16	13	NPP	STCO	.64	
							SPCO	.12	
							CAHE	.17	
							BUDA	.42	
							SPCR	4.27	
							BOGR	17.82	

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Lter Gztx-NPP Biomass Data for 2004

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.29.04	7	UG	8	39	43	UTIL	BOGR	6.71	
							*	.97	Mill / STCO
							SPCO	.94	
7.29.04	7	UG	9	47	50	NPP	SIHY	.56	
							SPCR	4.73	
							SPCO	1.30	
							ARLO	.33	
							BOGR	37.13	
							STCO	2.29	
7.30.04	7	UG	5c	4	14	NPP	BOGR	17.44	
							SPCO	1.01	
							CAHE	.06	
							CHAL	.41	
7.30.04	7	UG	3	29	7	UTIL	BOGR	3.76	
							*	.89	SPCO + CHAL
							CAHE	1.17	
7.30.04	7	UG	3	29	7	NPP	BOGR	5.11	
							SPCO	.79	
							CAHE	.90	
7.29.04	7	UG	6c	13	27	NPP	SPCR	3.57	
							CAHE	0.37	
							SPCO	0.31	
							BOGR	17.03	
7.30.04	7	UG	5c	4	14	UTIL	SPCO	0.24	
							CAHE	0.35	
							BOGR	6.67	
							CHAL	0.20	
7.30.04	7	UG	1	47	3	NPP	BOGR	0.26	
							SIHY	0.08	
							CAHE	2.32	
							SPCR	25.07	
							ARLO	7.96	
							STCO	0.72	
7.30.04	7	UG	4c	16	13	UTIL	BOGR	5.13	
							CAHE	0.02	
		uu?					SPCO	1.17	*had "UNUN"
							EUGL	0.05	
7.28.04	7	UU	2	18	1	NPP	BOGR	7.01	*"RO/UN #10
							SPCO	2.23	are not listed
							ARDR	0.50	on all bag.
							CAHE	0.04	please see
7.28.04	7	UU	3	26	30	NPP	CAHE	0.47	2 drive or
							AGSM	2.91	Nicole if
							SPCO	0.31	necessary "
							STCO	3.77	
							ARFR	2.11	
							BOGR	0.93	
							SPCR	2.60	

ARDR 2.38

Bag 1 of 4
a+ 5/14Bag 2 of 4
7/1



Bo 2 of 4
Site 7

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.28.04	7	UU	10	4	21	NPP	ARDR	10.95	Original bag was
							STCO	9.55	had a hole,
							CAHE	2.95	replaced bag.
							SPCO	0.23	
							BOGR	2.58	
							SIHY	1.60	
7.28.04	7	UU	9	15	15	NPP	STCO	3.55	
							SAIB	7.93	
							EUGL	0.11	
							BOGR	0.52	
							CAHE	0.80	
							CHLE	0.38	
							SPCO	0.92	
7.28.04	7	UU	8	2	17	NPP	BOGR	6.71	
							AGSM	0.28	
							SPCO	2.13	
							SAIB	0.06	
7.28.04	7	UU	4	34	35	NPP	ARDR	10.54	
							BUDA	0.15	
							BOGR	2.41	
							CAHE	1.69	
							SAIB	0.07	
							AGSM	0.37	
							SPCO	0.47	
7.28.04	7	UU	1	6	70	NPP	STCO	5.79	
							BOGR	2.36	
							AGSM	0.67	
							CAHE	2.75	
7.28.04	7	UU	5	40	40	NPP	BOGR	13.77	
							SPCO	0.48	
							AGSM	0.11	
7.28.04	7	UU	6	39	33	NPP	SPCR	0.90	
							STCO	3.03	
							ARDR	1.34	
							SPCO	0.16	
							CAHE	0.04	
							BOGR	6.93	
7.28.04	7	UU	7	15	66	NPP	AGSM	1.04	
							BOGR	6.25	
							STCO	6.80	
							SPCO	0.12	
7.28.04	7	RU	2	11	7	NPP	BOGR	4.65	
							SPCO	0.65	
							SPCR	0.05	
							STCO	5.80	



5/14/2014

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.29.04	7	RU	9	8	18	NPP	BOGR	5.88	
							SAIB	1.89	
							STCO	11.61	
							CAHE	0.31	
							SPCO	0.27	
7.29.04	7	RU	3	20	9	NPP	SPCR	0.09	
							CAHE	0.10	
							STCO	1.88	
							BOGR	11.22	
							SPCO	0.50	
7.29.04	7	RU	7	13	13	NPP	SPCR	3.35	
							CAHE	1.63	
							AGSM	0.15	
							STCO	4.77	
							BOGR	5.25	
							EREF	6.89	
							SPCO	0.30	
7.29.04	7	RU	5	2	29	NPP	BOGR	6.43	
							STCO	7.90	
							EREF	0.25	
							SPCR	0.03	
							ARLO	0.18	
							CAHE	0.14	
							SPCO	0.91	
7.29.04	7	RU	6	3	26	NPP	STCO	6.37	
							SPCO	2.07	
							BOGR	6.65	
							EREF	0.60	
							SPCR	0.77	
							SAIB	0.42	
7.29.04	7	RU	1	10	1	NPP	BOGR	4.01	
							SPCO	3.77	
							SPCR	0.07	
							SAIB	0.63	
							BUDA	5.74	
							CAHE	1.03	
							STCO	0.71	
							AGSM	0.14	
7.29.04	7	RU	8	17	15	NPP	BUDA	0.24	
							SPCO	0.17	
							EREF	0.21	
							CAHE	0.70	
							ARLO	0.16	
							STCO	11.30	
							BOGR	5.38	

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.29.04	7	RU	10	?	?	NPP	AGSM	0.40	had a * on
							SPCO	0.56	the bag;
							CAHE	3.87	(x,y) left
							BOGR	5.93	blank
							STCO	3.95	
7.28.04	7	RU	4	1	28	NPP	STCO	4.99	"Ant
							SAIB	2.30	Mound
							ARLO	3.14	Disturbance
							CAHE	0.14	written on
							SIHY	0.53	bag
7.30.04	7	GG	9	13	1	UTIL	BOGR	8.31	
							SPCO	0.26	
							SPCR	0.26	
							CAHE	0.41	
7.30.04	7	GG	6	10	25	NPP	BOGR	10.24	
							STCO	0.59	
							SPCR	0.19	
							SPCO	0.11	
							EUGL	0.01	
7.30.04	7	GG	1	55	54	UTIL	BOGR	4.92	* original bag
							CAHE	0.60	slight rip
7.30.04	7	GG	9	37	5	NPP	BOGR	8.63	* Big bag/containers
							SPCR	3.33	has written
							ARLO	0.50	"Plot 9 (13,1)"
							CAHE	2.63	but all others
							SPCO	0.11	inside was:
									"Plot 9 (37,5)"
7.30.04	7	GG	1	55	54	NPP	ARFR	13.63	
							CAHE	3.09	
							BOGR	15.01	
							EREF	2.63	
							SPCR	0.85	
							BUDA	0.17	
7.30.04	7	GG	3	28	36	UTIL	BOGR	5.56	
							SPCO	0.56	
							CAHE	1.01	
							SPCR	0.18	
7.30.04	7	GG	2	31	47	UTIL	BOGR	7.83	
							SPCO	0.75	
							CAHE	1.48	
							SPCR	0.78	

2004

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.30.04	7	GG	7	8	13	UTIL	BOGR	6.30	
							SPLR	.09	
							SPLD	.27	
							ARLO	.16	
							X	.30	CHAL + CHLE
7.30.04	7	GG	8	13	1	UTIL	BOGR	110.45	
							SPLR	.67	
							STCO	.48	
							ARER	1.48	
							SPLD	.52	
7.30.04	7	GG	7	8	13	NPP	BOGR	9.47	
							SPLD	1.30	
							SPLR	.38	
							ARLO	.26	
7.30.04	7	GG	3	28	36	NPP	BOGR	7.10	
							SPLR	6.54	
							CAHE	2.75	
							SIHY	.19	
							ARLO	2.14	
7.30.04	7	GG	6	10	25	UTIL	BOGR	8.85	
							ARLO	.28	
							STCO	1.22	
							SPLR	.44	
							BUOA	.30	
7.30.04	7	GG	4	47	39	UTIL	CAHE	1.26	
							BOGR	9.85	
							SPLR	.00	*NOT ENOUGH TO Reg.
7.30.04	7	GG	4	47	39	NPP	BOGR	9.41	
							CAHE	1.11	
							ARLO	.12	
							SPLD	.54	
							SPLR	.00	*NOT ENOUGH TO Reg.
7.30.04	7	GG	10	44	26	NPP	BOGR	8.85	
							ARLO	2.07	
							SPLD	.18	
7.29.04	7	GU	1	3	32	NPP	BOGR	8.68	
							ARLO	.29	
							THTR	.21	
							CAHE	.25	
							SPLD	4.04	

2004

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.28.04	7	GU	2	14	35	NPP	BOGR	8.37	
							STLO	4.62	
							CAHE	.66	
							EREF	.73	
							SPCR	.37	
							ARLO	.06	
							JAIR	.08	
7.28.04	7	GU	9	26	19	NPP	CAHE	.14	
							BOGR	11.15	
							x	.10	SPLO + MILI
7.29.04	7	GU	5	47	3	NPP	STLO	1.49	
							SPCR	3.93	
							EREF	1.69	
							BOGR	11.96	
							BUDA	.12	
7.28.04	7	GU	7	42	14	NPP	BOGR	9.58	
							CAHE	.22	
							SPLO	.23	
							SETR	.08	
7.29.04	7	GU	3	25	25	NPP	ARER	.94	
							EREF	1.83	
							STLO	.85	
							ARDR	1.52	
							BOGR	13.41	
							SPLO	.25	
							SPCR	.86	
7.28.04	7	GU	4	34	27	NPP	BOGR	8.08	
							SPLO	2.16	
							ARLO	.20	
							CAHE	1.07	
7.28.04	7	GU	6	52	4	NPP	CAHE	.85	
							ARLO	2.25	
							STLO	4.28	
							SPLO	2.18	
							BOGR	8.12	
							C.villosa	1.07	
							AGEM	.11	
7.29.04	7	GU	10	15	27	NPP	STLO	6.51	
							BOGR	5.85	
							SPCR	.23	
							SPLO	.08	
7.28.04	7	GU	8	35	17	NPP	C.villosa	6.45	
							BOGR	7.12	
							CAHE	.11	
7.30.04	7	GU	2	31	47	UTIL	SPCR	.57	
							SPLO	.32	
							BOGR	9.22	

E

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.30.04	7	GG	5	41	47	UTIL	SPCO	1.52	
							BOGR	6.91	
7.30.04	7	GG	5	41	47	NPP	BOGR	9.21	
							CAHe	1.74	
							SPCR	0.15	
7.30.04	7	GG	10	44	26	UTIL	SPCO	1.33	
							BOGR	8.36	
							SPCR	2.20	
7.30.04	7	GG	8	13	1	NPP	ARLO	0.66	
							SALB	0.57	
							STCO	2.59	
							BOGR	10.19	
							CAHe	0.06	
8.4.04	5A	UU	2	15	2	NPP	CAHe	0.25	
							SPCO	0.14	
							BOGR	9.77	
8.4.4	5A	UU	10	33	18	NPP	BOGR	8.50	
							SPCO	0.13	
							AGSM	0.32	
8.4.4	5A	UU	3	17	8	NPP	ATCA	21.23	
							BOGR	3.43	
							AGSM	0.16	
							SAIB	0.26	
8.4.4	5A	UU	7	51	10	NPP	BOGR	8.64	
							SPCO	1.92	
8.4.4	5A	UU	8	46	9	NPP	SPCO	0.47	
							PIOP	0.14	
							CAHe	0.41	
							BOGR	8.64	
							CELA	13.32	
8.4.4	5A	UU	1	5	15	NPP	AGSM	2.77	
							CAHe	2.42	
							SPCO	0.02	
							BOGR	1.60	
8.4.4	5A	UU	5	35	3	NPP	CAHe	0.49	
							ARLO	1.61	
							BOGR	4.95	
8.4.4	5A	UU	4	27	13	NPP	CHLE	0.08	
							SPCO	0.54	
							BOGR	5.23	
8.4.4	5A	UU	9	51	7	NPP	BOGR	8.69	
							AGSM	0.64	
8.4.4	5A	UU	6	12	20	NPP	CAHe	0.21	
							AGSM	0.11	
							BOGR	7.46	
8.4.4	5A	GU	9	26	15	NPP	BOGR	2.80	
							AGSM	4.00	
							SPCO	0.07	

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.4.4	5A	GU	8	19	23	NPP	SiHy	0.11	
							SPCO	0.27	
							CHAL	0.03	
							AGSM	1.74	
							BOGR	8.84	
8.4.4	5A	GU	1	29	18	NPP	BOGR	5.50	
							SPCO	0.22	
8.4.4	5A	GU	5	49	39	NPP	CAHe	0.08	
							SPCO	0.58	
							CHAL	0.18	
							BOGR	5.07	
							AGSM	1.95	
8.4.4	5A	GU	7	37	47	NPP	SPCO	0.68	
							BUDA	2.29	
							ASOX	0.20	
							MILI	0.26	
							CAHe	0.02	
							BOGR	6.05	
8.4.4	5A	GU	2	8	70	NPP	SPCO	0.38	
							BOGR	7.86	
8.4.4	5A	GU	4	17	54	NPP	CAHe	0.47	
							CAHe	0.20	*2 in BAG
							SPCO	1.53	
							BOGR	8.47	
8.4.4	5A	GU	10	15	10	NPP	BOGR	7.05	
							SPCO	0.33	
8.4.4	5A	GU	6	54	46	NPP	SPCO	1.16	
							BOGR	11.64	
8.4.4	5A	GU	3	32	66	NPP	BOGR	5.72	
							ASOX	0.09	
							SPCO	0.79	
8.5.4	5A	RU	7	9	28	NPP	SPCO	0.10	
							BOGR	4.00	
							AGSM	1.66	
							GUSA	26.11	
8.4.4	5A	RU	10	15	7	NPP	BOGR	10.89	
							ASOX	0.06	
							CELA	0.49	
							SPCO	1.39	
							CAHe	0.67	
8.5.4	5A	RU	1	3	20	NPP	Cela	1.64	
							SiHy	2.16	
							CAHe	1.50	
							*	4.96	BAG NOT MARKED
							SPCO	0.78	
8.4.4	5A	RU	9	7	21	NPP	SPCO	1.62	
							CAHe	1.52	
							BOGR	8.95	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.5.04	5A	RU	3	17	15	NPP	SPCO	1.52	
							BOGR	3.23	
							CAHE	6.28	
8.4.04	5A	RU	6	11	22	NPP	BOGR	7.03	
							SPCO	1.17	
							AGSM	1.69	
							CAHE	1.37	
8.4.04	5A	RU	5	10	17	NPP	AGSM	2.94	
							BOGR	8.16	
							CAHE	.35	
							SPCO	2.70	
8.4.04	5A	RU	4	12	1	NPP	SPCO	1.37	
							AGSM	.78	
							BOGR	6.01	
8.4.04	5A	RU	2	13	17	NPP	AGSM	2.09	
							CAHE	2.13	
							SPCO	1.04	
							BOGR	3.69	
8.5.04	5A	RU	8	7	21	NPP	CELA	.25	
							AGSM	1.16	
							ASOX	.33	
							SPCO	.57	
							BOGR	9.34	
8.5.04	5A	GG	12	18	66	NPP	SPCO	8.44	
							CAHE	.16	
							CHLE	.39	
8.5.04	5A	GG	9	67	55	NPP	BOGR	5.74	
							CAHE	.23	
							SPCO	.17	
8.5.04	5A	GG	72	28	47	NPP	BOGR	5.07	
							CAHE	1.12	
							SPCO	2.24	
8.5.04	5A	GG	4	210	7	UTIL	CAHE	.91	
							SPCO	.62	
							BOGR	3.20	
8.5.04	5A	GG	5	2	5	UTIL	BOGR	4.39	
							CAHE	.85	
							AGSM	.60	
							SPCO	.42	
8.5.04	5A	GG	10	70	67	NPP	CAHE	.40	
							SPCO	.54	
							BOGR	8.07	
8.4.04	5A	GG	5	2	5	NPP	SPCO	1.17	
							AGSM	1.05	
							CAHE	2.47	
							BOGR	4.93	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.5.04	5A	GG	6	35	34	UTIL	CHAL	1.20	
							BOGR	.40	
							CAHE	.25	
							SPLC	.82	
8.5.04	5A	GG	8	56	28	UTIL	CAHE	.06	
							SPLC	.69	
							BOGR	7.61	
8.4.04	5A	GG	4	26	7	NPP	SPLC	1.37	
							CAHE	.26	
							BOGR	1.62	
8.4.04	5A	GG	3C	16	11	UTIL	CAHE	.14	
							BOGR	2.15	
							ASOX	.03	
							SPLC	.21	
							CHLI	.08	
8.5.04	5A	GG	7C	28	47	UTIL	BOGR	3.98	
							CAHE	.06	
							CHLE	.69	
							SPLC	.55	
8.5.04	5A	GG	1	8	66	UTIL	BOGR	.17	
							SPLC	11.75	
8.5.04	5A	GG	2C	12	23	NPP	CAHE	.42	
							SPLC	1.51	
							BOGR	5.07	
8.4.04	5A	GG	3C	16	11	NPP	BOGR	2.93	
							SPLC	.71	
							CAHE	1.23	
							ASOX	.46	
8.5.04	5A	GG	6	35	34	NPP	SPLC	2.65	
							CAHE	2.40	
							BOGR	4.65	
8.5.04	5A	GG	2C	12	23	UTIL	BOGR	3.43	
							CAHE	.63	
							MILI	.57	
							SPLC	1.74	
8.5.04	5A	GG	10	70	67	UTIL	BOGR	4.66	
							CAHE	.13	
							SPLC	1.65	
8.5.04	5A	GG	8	56	28	NPP	SPLC	.06	
							CHAL	.03	
							CAHE	.56	
							BOGR	7.73	
8.5.04	5A	GG	9	67	55	UTIL	BOGR	6.15	
							SPLC	1.69	
							CAHE	.40	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.3.04	5B	UG	7	1	42	UTIL	CHLE	.15	
							CAHE	.06	
							BOGR	3.80	
8.3.04	5B	UG	1	32	53	NPP	BOGR	7.16	
							CAHE	.94	
8.3.04	5B	UG	6C	69	8	NPP	CAHE	1.75	
							AGSM	2.16	
							BOGR	8.70	
8.3.04	5B	UG	2C	19	47	NPP	BOGR	4.48	
							CAHE	1.12	
8.3.04	5B	UG	9	28	59	UTIL	BOGR	8.16	
							CAHE	.36	
8.3.04	5B	UG	3C	53	38	NPP	CAHE	.39	
							AGSM	1.09	
							BOGR	5.83	
8.3.04	5B	UG	9	28	59	NPP	BOGR	6.08	
							CAHE	.24	
8.3.04	5B	UG	1	32	53	UTIL	SPCO	.54	
							CAHE	.57	
							BOGR	4.40	
8.3.04	5B	UG	8C	37	59	NPP	BOGR	8.36	
							CAHE	.38	
8.3.04	5B	UG	10C	7	54	UTIL	BOGR	2.69	
							CAHE	.69	
8.3.04	5B	UG	8	37	59	UTIL	SPCO	1.97	
							AGSM	.11	
							CAHE	.16	
							BOGR	4.11	
8.3.04	5B	UG	6C	69	8	UTIL	CAHE	.96	
							BOGR	4.25	
							SPCO	.32	
8.3.04	5B	UG	2	19	47	UTIL	BOGR	1.35	
							CAHE	2.44	
8.3.04	5B	UG	7C	1	42	NPP	BOGR	9.06	
							ARFR	.26	
							SPCO	1.59	
							BODA	.11	
							CHLE	.05	
							AGSM	.14	
8.3.04	5B	UG	5	21	15	NPP	CAHE	.73	
							AGSM	.33	
							SPCO	.11	
							BOGR	6.51	
8.3.04	5B	UG	10	7	54	NPP	CAHE	2.11	
							BOGR	6.93	
							BODA	.18	

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.3.04	5B	UG	4	11	26	UTIL	SPCO	1.31	
							CAHE	.20	
							BOGR	3.41	
8.3.04	5B	UG	3C	53	38	UTIL	BOGR	5.85	
							CAHE	.28	
							SAIB	.06	
							AGSM	.09	
8.3.04	5B	UG	5	21	15	UTIL	SPCO	.14	
							CAHE	2.09	
							BOGR	2.48	
8.3.04	5B	UG	4	11	26	NPP	BOGR	3.37	
							CAHE	1.50	
							AGSM	.95	
							CHLE	.11	
8.2.04	5B	UU	5	12	27	NPP	BOGR	7.91	
							AGSM	.14	
							CAHE	.81	
							SPCO	.24	
8.2.04	5B	UU	4	38	22	NPP	CAHE	.16	
							AGSM	.67	
							BOGR	6.03	
8.2.04	5B	UU	1	3	15	NPP	BOGR	11.07	
							CHLE	.24	
							SPCO	.16	
							AGSM	1.78	
							CAHE	1.87	
8.2.04	5B	UU	9	27	22	NPP	BOGR	4.96	
							AGSM	.38	
							CAHE	1.07	
8.2.04	5B	UU	3	57	14	NPP	AGSM	1.64	
							CAHE	.54	
							BOGR	7.09	
							SPCO	.31	
							SAIB	.04	
8.2.04	5B	UU	10	2	56	NPP	CAHE	.28	
							+	.35	SPCO / SAIB
							AGSM	1.33	
							BOGR	11.74	
8.2.04	5B	UU	2	21	19	NPP	BOGR	9.84	
							SPCO	.26	
							BUDA	.11	
							CAHE	.08	
8.2.04	5B	UU	6	24	38	NPP	CAHE	.34	
							BOGR	6.75	
8.2.04	5B	UU	8	41	46	NPP	BOGR	8.46	
							SPCO	.25	
							CAHE	.19	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
8.4.04	5A	UG	1	40	7	NPP	BOGR	7.42	
							AGSM	.30	
							SPCO	.05	
							CAHE	.05	
8.4.04	5A	UG	10C	18	8	NPP	CAHE	1.12	
							BOGR	7.85	
8.4.04	5A	UG	1	40	7	UTIL	BOGR	10.00	
							AGSM	1.15	
8.4.04	5A	UG	3C	12	26	NPP	CAHE	.91	
							BOGR	4.20	
8.4.04	5A	UG	3C	12	26	UTIL	SPCO	.38	
8.4.04	5A	UG	3C	12	26	UTIL	AGSM	.10	
							CAHE	.54	
							BOGR	3.48	
7.26.04	19	UG	3C	7	26	NPP	SPCO	.04	
							OTCO	3.18	
							BOGR	10.14	
7.26.04	19	UG	2C	4	37	UTIL	BOGR	5.32	
							CAHE	5.68	
							AGSM	2.93	
							CHLE	1.14	
7.27.04	19	UG	4C	1	29	UTIL	CHLE	.09	
							AGSM	.11	
							BOGR	13.90	
							CAHE	.31	
7.26.04	19	UG	1C	19	48	NPP	CHLE	.35	
							LEDE	.88	
							SPCR	3.73	
							CAHE	.16	
							AGSM	.98	
							BOGR	7.10	
7.26.04	19	UG	3C	7	26	UTIL	LYJU	1.86	
							BOGR	11.02	
							SPCR	5.57	
							SPCO	.56	
7.26.04	19	UG	2C	4	37	NPP	CAHE	.39	
							LYJU	.16	
							SPCO	2.47	
							BOGR	14.70	
7.27.04	19	UG	1C	19	48	UTIL	STCO	4.93	
							BOGR	6.28	
							SPCR	2.42	
7.27.04	19	UG	4C	1	29	NPP	BOGR	5.80	
							STCO	2.64	
							CAHE	2.13	
							AGSM	.05	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.26.04	19	UU	1	27	59	NPP	AGSM	.15	
							BOGR	.69	
							SPCO	2.16	
							DTLO	6.98	
							CAHE	2.14	
7.26.04	19	UU	2	22	53	NPP	STLO	14.10	
							SPCR	8.48	
							SAIB	2.97	
							SPCO	.25	
7.26.04	19	UU	3	30	45	NPP	SPCO	.72	
							CAHE	6.10	
							AGSM	.16	
							BOGR	.14	
7.26.04	19	UU	4	15	32	NPP	SPCO	2.31	
							SAIB	14.57	
							STLO	4.69	
7.27.04	19	GG	1	2	47	NPP	BOGR	13.08	
							OECO	.49	
							AGSM	.07	
							STLO	.31	
							SPCR	.12	
							SAIB	.28	
7.27.04	19	GG	4	13	28	NPP	SIHY	.43	
							BOGR	8.96	
							SPCR	.90	
							ARLO	.25	
							SPCO	1.14	
							SAIB	2.87	
7.27.04	19	GG	4	13	28	UTIL	SPCR	1.94	
							BOGR	5.48	
							CAHE	.22	
							SPCO	.74	
7.27.04	19	GG	3	11	32	UTIL	SPCO	.39	
							EUGL	.00	*NOT ENOUGH
							CAHE	.07	
							SPCR	2.28	
							BOGR	4.25	
7.27.04	19	GG	1	2	47	UTIL	BOGR	2.76	
							OECO	3.35	
							SPCR	4.01	
							SPCO	2.09	
7.27.04	19	GG	3	11	32	NPP	SPCO	.92	
							CAHE	.18	
							SPCR	1.45	
							BOGR	8.25	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.27.04	19	GG	2C	8	41	UTIL	MATA	.56	
							SPCO	1.27	
							BOGR	7.00	
7.27.04	19	GG	2C	8	41	NPP	BOGR	9.89	
7.27.04	19	GU	4	45	5	NPP	STCO	5.54	
							BOGR	1.53	
							SAIB	5.65	
							AGSM	.32	
							SPCR	.08	
7.27.04	19	GU	1	35	28	NPP	CAHE	.10	
							CAHE	.93	SAIB+CH/E
							STCO	3.40	
							SPCO	.70	
							SPCR	1.99	
							BOGR	9.21	
7.27.04	19	GU	2	50	48	NPP	SPCR	.14	
							BOGR	3.88	
							STCO	2.85	
							SAIB	.03	
7.27.04	19	GU	3	13	31	NPP	SPCO	.29	
							AGSM	.16	
							SAIB	1.05	
							STCO	7.73	
							BOGR	7.79	
7.27.04	11	UU	2	15	20	NPP	CAHE	6.52	
							ASOX	0.27	
							AGSM	0.11	
							STCO	0.87	
7.27.04	11	GG	3	27	2	UTIL	BUDA	0.64	
							SPCO	0.10	
							CAHE	0.02	
							BOGR	3.13	
7.27.04	11	UG	2	48	27	NPP	POOL	1.63	
							BUDA	2.67	
							BOGR	4.18	
							AGSM	0.86	
							CAHE	2.15	
							SPCO	0.40	
7.27.04	11	GG	2	47	7	NPP	CAHE	2.55	
							ASOX	0.13	
							BOGR	3.63	
							BUDA	5.08	
7.27.04	11	GG	4	18	4	NPP	AGSM	0.18	
							*	0.10	SAIB/EDGL
							BUDA	0.11	
							CAHE	0.76	
							BOGR	5.57	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.28.04	11	UG	4c	30	17	UTIL	BUDA	0.02	
							CAHe	0.72	
							SPCO	0.21	
							BOGR	8.34	
7.27.04	11	UG	3c	41	25	NPP	SPCO	0.06	
							CAHe	0.43	
							BUDA	13.35	
							BOGR	7.31	
7.27.04	11	GG	4	18	4	UTIL	CAHe	0.35	
							SPCO	0.65	
							*	0.13	MILI/EDGL
							AGSM	0.32	
							BUDA	1.35	
							BOGR	3.73	
7.27.04	11	GU	1	33	57	NPP	AGSM	0.97	
							EREF	3.88	
							ARFR	1.40	
							EDGL	0.01	
							BOGR	12.18	
7.28.04	11	UG	3	41	25	UTIL	CAHe	0.03	
							SAIB	0.06	
							BUDA	0.30	
							AGSM	0.05	
							BOGR	2.95	
							SPCO	1.47	
7.27.04	11	UU	3	4	23	NPP	BOGR	3.41	
							AGSM	4.88	
							CAHe	0.36	
							SPCO	0.81	
							ASOX	0.11	
7.26.04	24	GG	3c	19	9	NPP	BOGR	7.01	
							BUDA	0.26	
							SPCO	0.34	
7.26.04	24	GG	1c	49	60	NPP	BUDA	1.97	
							AGSM	0.23	
							CAHe	2.10	
							BOGR	3.38	
							SPCO	0.17	
7.26.04	24	GG	3c	19	9	UTIL	CHLe	0.77	
							SPCO	0.31	
							CAHe	0.41	
							BOGR	5.06	
7.26.04	24	GG	1c	49	60	UTIL	BOGR	7.81	
							SPCO	0.34	
							CAHe	0.21	
							ARLO	2.20	

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Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
07.26.04	24	GG	2c	16	18	NPP	BOGR	7.07	
							CAHE	1.18	
							SIHY	0.57	
							BUDA	2.09	
							ARLO	0.38	
							SPCO	0.86	
							ARFR	0.04	
07.26.04	24	GG	1c	49	60	UTIL	BUDA	2.47	
							AGSM	0.03	
							SPCO	0.37	
							ARFR	1.51	
							CAHE	3.30	
							BOGR	4.10	
							PIOP	0.09	
7.26.04	24	GG	4c	34	12	NPP	ARFR	1.42	
							SPCO	0.25	
							AGSM	0.20	
							CAHE	0.78	
							EREF	2.03	
							BUDA	5.47	
							BOGR	2.78	
7.26.04	24	GG	4c	34	12	UTIL	SPCO	0.38	
							ARFR	0.09	
							CAHE	0.91	
							BOGR	7.30	
07.26.04	24	GU	4	8	39	NPP	SPCR	2.32	
							AGSM	1.62	
							EREF	1.14	
							BOGR	8.54	
7.26.04	24	GU	1	60	2	NPP	SPCO	0.00	TRACE
							ATCA	1.62	
							AGSM	0.18	
							PIOP	0.07	
							BOGR	10.92	
7.26.04	24	GU	2	59	11	NPP	BOGR	12.10	
							AGSM	1.00	
							THTR	0.46	
							ARFR	0.12	
							CHLE	0.07	
7.26.04	24	GU	3c	13	27	NPP	SPCO	0.08	
							AGSM	0.14	
							STCO	4.45	
							BOGR	7.06	
7.26.04	24	UG	1c	11	30	UTIL	CAHE	0.23	
							AGSM	0.29	
							BOGR	6.85	

2004

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.26.04	24	UG	2c	8	40	UTIL	BOGR	5.95	
							EUGL	0.00	Trace
							CAHe	2.25	
							BUDA	0.32	
							SPCO	0.19	
							AGSM	0.63	
7.26.04	24	UU	2	2	40	NPP	CAHe	0.53	
							CHLE	0.13	
							BUDA	0.22	
							AGSM	0.66	
							BOGR	6.88	
7.26.04	24	UG	2c	8	40	NPP	BOGR	2.52	
							BUDA	1.05	
							AGSM	2.36	
							CAHe	6.68	
7.26.04	24	UG	1c	11	30	NPP	CAHe	0.53	
							ARLO	0.07	
							AGSM	0.05	
							EREF	2.97	
							BOGR	10.69	
07.26.4	24	UU	3	6	8	NPP	AGSM	0.12	
							CAHe	0.26	
							GUSA	0.52	
							SPCO	0.04	
							CHAL	2.55	
							BOGR	8.27	
7.26.04	24	UG	4c	28	18	UTIL	PIOP	0.13	
							CAHe	0.11	
							SPCO	0.23	
							SPCR	0.21	
							ARLO	1.92	
							AGSM	2.01	
							BOGR	4.22	
7.26.04	24	UG	3c	22	33	UTIL	SPCO	0.05	
							BUDA	0.35	
							CAHe	2.00	
							BOGR	3.51	
7.26.04	24	UU	4	37	15	NPP	BUDA	1.20	
							GUSA	0.48	
							BOGR	4.11	
7.26.04	24	UG	3c	22	33	NPP	AGSM	2.27	
							BUDA	0.55	
							CAHe	2.79	
							ARFR	0.26	
							BOGR	9.04	
7.27.04	11	GU	3	22	28	NPP	BOGR	2.15	
							ASOX	0.09	
							AGSM	6.99	

Lter Gztx-NPP Biomass Data for ~~XXXX~~

Date	Location	Treatment	Plot	X	Y	Util or Non-Util	Species	Weight (Grams)	Notes
7.26.04	24	UU	1	49	39	NPP	GUSA	1.56	
							CAHE	0.29	
							AGSM	0.57	
							SPCO	0.09	
							BOGR	4.17	
							ARFR	9.98	
7.26.04	24	UG	4c	28	18	NPP	ARFR	0.40	
							SPCO	0.06	
							BOGR	3.07	
							AGSM	1.72	
							CAHE	5.07	
7.27.04	11	UG	1	50	31	UTIL	SPCO	0.47	
							BUDA	0.83	
							CAHE	0.75	
							AGSM	0.45	
							BOGR	5.12	
7.27.04	11	GU	4	1	17	NPP	CAHE	1.20	
							SPCO	0.62	
							CHLE	0.56	
							ASOX	0.07	
							BOGR	3.49	
7.27.04	11	GG	2	47	7	UTIL	MILI	0.03	
							CAHE	1.26	
							PIOP	0.45	
							SPCO	0.18	
							BUDA	1.22	
							BOGR	9.82	
7.27.04	11	UG	1	50	31	NPP	BUDA	3.61	
							SAIB	.77	
							BOGR	1.19	
							CAHE	.53	
							SPCO	.21	
							AGSM	4.72	
7.27.04	11	GG	3c	27	2	NPP	BUDA	2.22	
							BOGR	1.84	
							CAHE	.05	
7.27.04	11	GG	1	46	11	NPP	CAHE	1.23	
							ARLO	.06	
							BUDA	.79	
							BOGR	9.39	
7.27.04	11	UU	1	32	17	NPP	BOGR	.07	
							STLO	.06	
							AGSM	1.66	
							CAHE	8.62	
							SPCO	1.89	

[illegible]