

file = Ixnpp92.wk1

YR	Excl. #	Treatment	Coord.	date	Species	WT.	UTIL			
92	19	GZ/UG	'93,12	8/11/92	SPCR	7.5	✓	✓		
92	19	GZ/UG	93,12	8/11/92	Cahe	0.7	✓	✓		
92	19	GZ/UG	93,12	8/11/92	AStr	0.1	✓	✓		
92	19	GZ/UG	93,12	8/11/92	STCO	14.2	✓	✓		
92	19	GZ/UG	93,12	8/11/92	BOGR	22.5	✓	✓		
92	9	GIG	10,57	8/11/92	LEDI	0.3	✓			
92	9	GIG	10,57	8/11/92	SPLO	0.5	✓			
92	9	GIG	10,57	8/11/92	BOGR	20.6	✓			
92	Sb	G/U	25.5,27.5	8/13/92	Cahe, Spco AGSm	1.5		✓		
92	Sb	G/U	25.5,27.5	8/13/92	Assp	3.0		✓		
92	Sb	G/U	25.5,27.5	8/13/92	Bogr	14.7		✓		
92	Sb	U/G	40.5,1	8/13/92	AGSm	0.8		✓		
92	Sb	U/G	40.5,1	8/13/92	SPCO	0.6		✓		
92	Sb	U/G	40.5,1	8/13/92	MUSQ	0.3		✓		
92	Sb	U/G	40.5,1	8/13/92	CAHE	0.5		✓		
92	Sb	U/G	40.5,1	8/13/92	BOGR	25.4		✓		
92	SA	U/G	34.5,26	8/14/92	CHLE/SAKA	0.3		✓		
92	SA	U/G	34.5,26	8/14/92	SPCO	1.7		✓		
92	SA	U/G	34.5,26	8/14/92	winterfat	6.5		✓		
92	SA	U/G	34.5,26	8/14/92	CAHE	1.6		✓		
92	SA	U/G	34.5,26	8/14/92	BOGR	29.7		✓		
92	SA	U/U	34.5,26	8/14/92	SPCO	2.3		✓		
92	SA	U/U	34.5,26	8/14/92	Cahe, Saka MUSQ	0.4		✓		
92	SA	U/G	34.5,28	8/14/92	SAKA	0.7		✓		
92	SA	U/U	34.5,26	8/14/92	AGSm	6.2		✓		
92	SA	U/U	34.5, (16)	8/14/92	BOGR	12.3		✓		
92	SA	G/U	44, 16	8/14/92	CAHE	2.0		✓		

← changed to "19, UG" in final data file, since that's where the plot seemed to fit!

UTIL)

Should be (34.5, 26)?
* changed for final data file.

YR	Excl. #	Treatment	coord.	date	Species	WT.	UTIL			
X	SA	G/U	44,16	8/14/92	BODA	0.2	✓			
X	SA	G/U	44,16	8/14/92	BOGR	41.9	✓			
+	7C	U/U	30,65	8/14/92	SPCO	2.6	✓			
+	7C	U/U	30,65	8/14/92	Chle, Lede	0.2	✓			
+	7C	U/U	30,65	8/14/92	Boar	27.4	✓			
+	7C	G/G	16,56	8/17/92	spco, Lede unfb	0.9	UTIL ✓			
+	7C	G/G	16,56	8/17/92	BOGR	22.7	UTIL ✓			
X	SA	un/un	39.5,16.5	8/14/92	"winterfat"	13.7	✓			
X	SA	un/un	39.5,16.5	8/14/92	Saka	0.2	✓			
+	SA	un/un	39.5,16.5	8/14/92	SPCO	1.9	✓			
+	SA	un/un	39.5,16.5	8/14/92	Agsm	2.1	✓			
X	SA	un/un	39.5,16.5	8/14/92	Cahe	0.6	✓			
+	SA	un/un	39.5,16.5	8/14/92	unknown	0.6	UNFB ✓			
X	SA	un/un	39.5,16.5	8/14/92	Bogr	34.5	✓			
+	SA 162/162	62/62	42,5,7	8/14/92	SPCO	0.8	✓			
+	SA	62/62	42,5,7	8/14/92	Bogr	36.1	✓			
+	SA	G/G	37,7	8/14/92	SPCO/CAHE	2.8	UTIL ✓			
X	SA	G/G	37,7	8/14/92	Bogr	12.9	UTIL ✓			
✓	SA	G/G	18.5,36	8/14/92	UKF	0.07	util ✓	} *Changed to "5B" for Final data file, as that is where the X,Y coordinates fit!		
X	SA	G/G	18.5,36	8/14/92	AGSM	0.1	util ✓			
X	SA	G/G	18.5,36	8/14/92	Bogr	10.4	util ✓			
✓	11	62/UG	15,67	8/13/92	unFB	0.6	✓			
+	11	62/UG	15,67	8/13/92	unFB-SPCO	0.03	✓			
+	11	62/UG	15,67	8/13/92	Bogr	16.3	✓			
X	24	un/62	39,15.5	8/12/92	Agsm	10.3	✓			
X	24	un/62	39,15.5	8/12/92	unknown	0.03	✓ UNFB			
X	24	un/62	39,15.5	8/12/92	unknown	0.5	✓ UNFB			

*Changed to "5B" for
Final data file, as
that is where the
X,Y coordinates fit!

YR	EXCI #	treatment	coord.	date	species	WT.	Unit			
L	24	UNIG2	39,15.5	8/12/92	Cahe	1.5	✓			
+	24	UNIG2	39,15.5	8/12/92	Schy	1.1	✓			
+	24	UNIG2	39,15.5	8/12/92	Bogr	11.5	✓			
3	X SA	UIG	15.5, 22	8/14/92	SpcO, Cahe	1.5	✓			
	X SA	UIG	15.5, 22	8/14/92	Bogr	20.8	✓			
+	X SA	62/62	39,23	8/14/92	oppo	0.1				
X	X SA	62/62	39,23	8/14/92	Cahe	0.9	✓			
+	X SA	62/62	39,23	8/14/92	BOGR	32.6	✓			
+	X 19	U/U	19,20	8/11/92	chle, Saka	2.0	✓			
X	X 19	U/U	19,20	8/11/92	SpcO	1.0	✓			
+	X 19	U/U	19,20	8/11/92	Bogr	40.3	✓			
+	X 19	G/U	51,19.5	8/11/92	SplO	0.1	✓			
X	X 19	G/U	51,19.5	8/11/92	musq	0.1	✓			
+	+	19	G/U	51,19.5	8/11/92	PLPA	0.2	✓		
+	+	19	G/U	51,19.5	8/11/92	Bogr	14.8	✓		
+	X 19	G/U	21,53	8/11/92	StCO	5.7	✓	} Changed to "util" in the final data file, as that's where the plot seemed to fit!		
+	X 19	G/U	21,53	8/11/92	Chle	3.6	✓			
+	X 19	G/U	21,53	8/11/92	Saka	10.1	✓			
+	X 19	G/U	21,53	8/11/92	Bogr	1.3	✓			
+	+	19	G/U	21,53	8/11/92	SpcO	4.8	✓		
+	X 19	G/G	93,14	8/11/92	Bogr	27.6	util ✓			
+	X 19	G/G	93,14	8/11/92	oppo	18.8	util			
+	+	19	G/G	93,14	spcr	5.9	util ✓			
+	+	19	G/G	93,14	Agsm	0.6	util ✓			
+	+	19	G/G	93,14	SpcO, Lede	0.6	util ✓			
+	X SA	G/U	27.5, 5	8/14/92	Bogr	19.0	✓	} Instead of $(x=30.5)$? $(y=5)$		
+	X SA	UIG	15.5, 24	8/14/92	SpcO, Cahe	1.7	util ✓			

Yr	ExCI #	treatment	Coord.	date	species	WT.	util			
92	SA	U/G	15.5, 24	8/14/92	Bogr	8.3	util ✓			
19		G/G	51, 19.5	8/11/92	Bogr	30.3	✓			
19		G/G	51, 19.5	8/11/92	SpcO	0.1	✓			
19		G/G	51, 19.5	8/11/92	Spcr	2.9	✓			
11		G/G	15, 67	8/13/92	Bogr	16.1				
11		G/G	15, 67	8/13/92	Piop	0.4				
11		G/G	15, 67	8/13/92	Agsm	12.9				
11		G/G	15, 67	8/13/92	SpcO, Assp	7.7	→	These 2 were later weighed separately		
11		G/G	15, 67	8/13/92	ArFr	12.3				
24		U/G	67, 22	8/12/92	Bogr	21.4	util ✓			
24		U/G	67, 22	8/12/92	Sala, Spco, Agsm, ArFr, Pile, Unfb, Cahe	3.5	util ✓	Re-weighed out separately.		
11		G/G	15, 69	8/13/92	Bogr	18.2	util			
11		G/G	15, 69	8/13/92	SpcO, ArFr, Pile, Unfb, Sala, Cahe	6.4	util	6) 1.06 6.40 6x ↓ 40 36 4	Piop 3.1 Arlo 4.2 Cahe 0.7 Unfb 0.3 SpcO 0.7 60	These weights taken from p. 23
11		G/G	15, 69	8/13/92	ArFr	5.9	util			
7C		Un/G2	13.5, 23.5	8/17/92	Bogr	8.3	util ✓			
7C		Un/G2	13.5, 23.5	8/17/92	Stco	1.5	util ✓			
7C		Un/G2	13.5, 23.5	8/17/92	Cahe	1.8	util ✓			
19		U/G/G	50, 81	8/11/92	Stco	33.3	✓			
19		U/G	50, 81	8/11/92	Cela	1.8	✓			
19		U/G	50, 81	8/11/92	SpcO	0.2	✓			
SB		G/G	25.5, 27.5	8/13/92	Bogr	30.5	✓			
SB		G/G	25.5, 27.5	8/13/92	Buda	3.4	✓			
19		G2/U2	19.5, 30	8/11/92	Bogr	13.3	util ✓			
19		G2/U2	19.5, 30	8/11/92	Unfb	0.1	util ✓			
19		G2/U2	19.5, 30	8/11/92	SpcO	0.9	util ✓	changed to GC in final data file		
19		G2/U2	19.5, 30	8/11/92	Spcr	8.0	util ✓			
19		G2/U2	19.5, 30	8/11/92	Astr, Assp	0.1	util ✓			

Yr	Excl #	treatment	Coord.	date	species	WT.	util			
+	92	SB	G/U	18.5, 35	8/13/92	Bogr	34.8	✓		
+	7	SB	G/U	18.5, 35	8/13/92	Arfr	14.0	✓		
+	7	SB	G/U	18.5, 35	8/13/92	CAHE	0.2	✓		
+	7	19	U/U	68.5, 16	8/11/92	Bogr	18.5	✓	} charged to GU for final data file.	
+	7	19	U/U	68.5, 16	8/11/92	SpcO	2.4	✓		
+	7	19	U/U	68.5, 16	8/11/92	Sihy	12.6	✓		
+	SB	U/G	54, 4.5	8/13/92	Bogr	42.8	util ✓			
+	SB	U/G	54, 4.5	8/13/92	spco, Ledc Agsm, Arfr	5.4	util ✓	} weighed out separately		
+	19	U/G	50, 79	8/11/92	stco	26.9	util ✓			
+	19	U/G	50, 79	8/11/92	SpcO	0.5	util ✓			
+	19	U/G	50, 79	8/11/92	Bogr	1.9	util ✓			
+	SB	un/un	58, 25	8/13/92	Bogr	33.2	✓			
+	SB	un/un	58, 25	8/13/92	Agsm	1.6	✓			
+	SB	un/un	58, 25	8/13/92	musg unFB	0.1	✓			
+	SB	un/un	58, 25	8/13/92	Cahe	2.4	✓			
+	SB	un/un	58, 25	8/13/92	Oppo	0.3				
+	9	U/U	50, 81	8/11/92	Bogr	18.3	✓	} ← Changed to "19 U/U" in the final data file, as there is no Excl. #19 in the GZTX-NPP.		
+	9	U/U	50, 81	8/11/92	SpcO	0.8	✓			
+	9	U/U	50, 81	8/11/92	Splr	0.7	✓			
+	7C	U/G	19, 40	8/17/92	SpcO	1.3	✓			
+	7C	U/G	19, 40	8/17/92	Agsm	0.5	✓			
+	7C	U/G	19, 40	8/17/92	Saka	0.1	✓			
+	7C	U/G	19, 40	8/17/92	STCO	7.8	✓			
+	7C	U/G	19, 40	8/17/92	ARFR	18.6	✓			
+	7C	U/G	19, 40	8/17/92	Bogr	21.4	✓			
+	11	U/G/U/G	9, 38	8/12/92	Bogr	21.1	✓			
+	11	U/G/U/G	9, 38	8/12/92	oxytropis	0.6	✓	A-50X		

Yr.	EXCI #	treatment	Coord.	date	species	WT.	util			
✓	92	11	UG/UG	9,38	8/12/92	SpcO	0.5	✓		
✓	✓	11	UG/UG	9,38	8/12/92	Budu	2.0	✓		
✓	✓	11	UG/UG	9,38	8/12/92	Cahe	2.7	✓		
✓	✓	11	UG/UG	9,38	8/12/92	AgSm	17.8	✓		
✓	✓	11	G/U	40,21.5	8/12/92	BUDA	3.3	✓		
✓	✓	11	G/U	40,21.5	8/12/92	Bogr	0.6	✓		
✓	✓	11	G/U	40,21.5	8/12/92	ASSp	0.7	✓		
✓	✓	11	G/U	40,21.5	8/12/92	Spkr	2.4	✓		
✓	✓	11	G/U	40,21.5	8/12/92	Cahe	0.05	✓		
✓	✓	11	G/U	40,21.5	8/12/92	ARFR	4.4	✓		
✓	✓	11	U/G	9,40	8/12/92	Bogr	2.2	util ✓		
✓	✓	11	U/G	9,40	8/12/92	Erof	4.3	util ✓		
✓	✓	11	U/G	9,40	8/12/92	AgSm, ArFr	13.5	util ✓		
✓	✓	11	U/G	9,40	8/12/92	Arlo	4.4	util ✓		
✓	✓	11	U/G	9,40	8/12/92	SpcO, Ledl, Spkr, ASSp	1.8	util ✓		
✓	✓	SA	G/G	24.5,40	8/12/92	Bogr	19.9	✓		
✓	✓	SA	G/G	24.5,40	8/12/92	Catli	0.03	✓		
✓	✓	SA	G/G	24.5,40	8/12/92	Spig	0.1	✓		
✓	✓	SA	G/G	24.5,40	8/12/92	Ledl	0.07	✓		
✓	✓	SA	G/G	37,5	8/14/92	Bogr	35.8	✓		
✓	✓	SA	G/G	37,5	8/14/92	SpcO, Cahe	1.5	✓		
✓	✓	SA	G2/G2	39,25	8/14/92	Bogr	43.1	✓		
✓	✓	SA	G2/G2	39,25	8/14/92	SpcO	0.4	✓		
✓	✓	SA	G2/G2	39,25	8/14/92	Cahe	5.8	✓		
✓	✓	11	UG/G2	64,12	8/12/92	ArFr	36.0	✓		
✓	✓	11	UG/G2	64,12	8/12/92	Bogr	7.3	✓		
✓	✓	11	UG/G2	64,12	8/12/92	SpcO, UNFB	0.4	✓		

This plot was changed to 5B GU in the final data file, because as far as I could tell that's where it fits.
Judy Hendry 10-12-2004

UTIL } UTIL's added in final data file, as those are UTIL coordinates. There is already an NPP plot to match.

Yr	Excl#	treatment	Coord.	date	species	WT.	util			
X	92	11	UG1G2	64,12	8/12/92	oxy.Spp	4.2	✓		
X	X	11	UG1G2	64,12	8/12/92	Chle	0.5	✓		
X	X	11	UG1G2	64,12	8/12/92	Saka	3.7	✓		
X	X	11	UG1G2	64,12	8/12/92	Agsm	7.9	✓		
X	X	7C	G2/UG	12.5,77	8/17/92	Bogr	14.2	✓		
X	X	7C	G2/UG	12.5,77	8/17/92	Stco	3.2	✓		
X	X	7C	G2/UG	12.5,77	8/17/92	Cahe	0.5	✓		
X	X	7C	G2/UG	12.5,77	8/17/92	unfb. Chle	0.1	✓		
X	X	7C	G2/UG	12.5,77	8/17/92	Erof	8.6	✓		
X	X	7C	G2/UG	12.5,77	8/17/92	spco	1.2	✓		
X	X	7C	U1G	19,42	8/17/92	Bogr	26.0	util ✓		
X	X	7C	U1G	19,42	8/17/92	Sihy	0.3	util ✓		
X	X	7C	U1G	19,42	8/17/92	Erof	4.3	util ✓		
X	X	7C	U1G	19,42	8/17/92	saka spco	0.7	util ✓		
X	X	7C	U1G	19,42	8/17/92	AGsm	5.6	util ✓		
X	X	11a	G2/G2	20,56	8/13/92	Bogr	7.4	✓		
X	X	11a	G2/G2	20,56	8/13/92	Cahe	1.2	✓		
X	X	11a	G2/G2	20,56	8/13/92	Buda	3.7	✓		
X	X	19	G1G	68.5,16	8/11/92	Ledi	41.1	✓		
X	X	19	G1G	68.5,16	8/11/92	Sihy	13.0	✓		
X	X	19	G1G	68.5,16	8/11/92	Ledi	0.2	✓		
X	X	19	G1G	68.5,16	8/10/92	spco Chle	1.2	✓		
X	X	7C	G2/G2	20.5, 14.5(125)	8/17/92	Bogr	15.9	util ✓		
X	X	5A	G1U	42.5,7	8/14/92	Bogr	38.0	✓		
X	X	5B	un/un	40.5,1	8/13/92	Bogr	31.8	✓		
X	X	5B	un/un	40.5,1	8/13/92	Agsm	1.7	✓		
X	X	11a	G2/G2	20,58	8/13/92	Bogr	7.1	util ✓		

Yr	Excl #	treatment	Coord.	date	species	WT.	util			
X	92	11a	G2/G2	20,58	8/13/92	Agsm	3.4	util	✓	
X	X	11a	G2/G2	20,58	8/13/92	Buda	1.3	util	✓	
X	X	11a	G2/G2	20,58	8/13/92	Cahe	1.2	util	✓	
X	X	17	U1U	35,85	8/14/92	Bogr	4.7		✓	
X	X	17	U1U	35,85	8/14/92	PIPA	0.1		✓	
X	X	17	U1U	35,85	8/14/92	SpcO	1.0		✓	
X	X	17	U1U	35,85	8/14/92	Assp	0.07		✓	
X	X	17	U1U	35,85	8/14/92	Cahe	0.1		✓	
X	X	5a	G2/un	39,23	8/14/92	Bogr	22.6	✓		
X	X	5a	G2/un	39,23	8/14/92	SpcO	0.1	✓		
		5a	U1U	15.5,22	8/14/92	Bogr	10.7	✓		
		5a	U1U	15.5,22	8/14/92	^{SpcO} chle	0.4	✓		
X	X	24	U1G	83,33.5	8/12/92	Bogr	23.2	✓		
X	X	19	U1G	83,33.5	8/12/92	Cahe	0.7	✓		
X	X	24	U1G	83,33.5	8/12/92	musO	0.9	✓		
X	X	24	U1G	83,33.5	8/12/92	SpcO	0.1	✓		
X	X	19	U1G	83,33.5	8/12/92	Buda	0.5	✓		
X	X	24	un1G2	39,17.5	8/12/92	Bogr	7.5	util	✓	
X	X	24	un1G2	39,17.5	8/12/92	Cahe	0.6	util	✓	
X	X	24	un1G2	39,17.5	8/12/92	unknown	0.05	util	✓	UNFB
X	X	24	un1G2	39,17.5	8/12/92	^{chle} Afr	0.1	util	✓	
X	X	24	un1G2	39,17.5	8/12/92	musO	0.05	util	✓	
X	X	24	un1G2	39,17.5	8/12/92	Agsm	5.4	util	✓	
X	X	11	G1G	40,21.5	8/13/92	Bogr	17.7		✓	
X	X	11	G1G	40,21.5	8/13/92	oxy spp	0.5	ASOX	✓	
X	X	11	G1G	40,21.5	8/13/92	Buda	5.2		✓	
X	X	11	G1G	40,21.5	8/13/92	Cahe	1.3		✓	

2 bags labelled "19" were changed to "24" in final data file, since 1 bag appear to have been labelled incorrectly.

Yr.	EXCI #	treatment	coord.	date	species	WT.	util			
X	92	11	616	40,21.5	8/13/92	unfb	0.06	✓		
X		11	616	40,21.5	8/13/92	unfb/muso	0.1	✓		
X	7	414	19.5,47	8/14/92	Bogr	24.9	✓			
X	7	414	19.5,47	8/14/92	Cahe	0.4	✓			
X	5a	414	19.5,47	8/14/92	muso chic	0.1	✓			
X	7	414	19.5,47	8/14/92	spco	0.8	✓			
X	7	414	19.5,47	8/14/92	Lede	0.08	✓			
X	11	616	27,44	8/12/92	Buda	1.0	util ✓			
X	11	616	27,44	8/12/92	Cahe	0.1	util ✓			
X	11	616	27,44	8/12/92	Bogr	0.3	util ✓			
X	24	614	43,27	8/12/92	Bogr	15.9	✓			
X	24	614	43,27	8/12/92	Buda	0.1	✓			
X	24	614	43,27	8/12/92	pipg, Ledc spco	1.1	✓			
+	5b	416	54,2.5	8/13/92	Bogr	25.5	✓			
+	5b	416	54,2.5	8/13/92	ArFr/Cahe	2.6	←			
	5a	416	34.5,28	8/14/92	Bogr	34.2	util ✓			
	5a	416	34.5,28	8/14/92	Spco	1.6	util ✓			
	5a	416	34.5,28	8/14/92	winterfat	3.1	util ✓			
	5a	416	34.5,28	8/14/92	Cahe	0.5	util ✓			
X	5b	62/62	24.5,40	8/13/92	Bogr	12.8	✓			
X	5b	62/62	24.5,40	8/13/92	Buda	0.1	✓			
X	5b	62/62	24.5,40	8/13/92	Agsm	0.9	✓			
X	5b	62/62	24.5,40	8/13/92	Cahe	0.4	✓			
✓	5a	416	27,9	8/12/92	Bogr	5.4	✓			
X	5a	416	27,9	8/12/92	Stco	0.2	✓			
X	24	416	67,20	8/12/92	Agsm	18.1	✓			
X	24	416	67,20	8/12/92	spco unfb	3.8	✓			

← Looks like this line should be Excl. 7 also, changed for final data.

Reweighed Separately ✓

← These were changed to 5B UG in the final data file, as the (x,y) coordinates fit there! - And otherwise the plot would have been double for 5A and missing for 5B.

Yr	ExC1 #	treatment	Coord.	date	species	wt.	util			
X	92	24	u/G	67,20	8/12/92	unFb	4.4	✓		
X	24	u/G	67,20	8/12/92	Sihy	1.5	✓			
X	24	u/G	67,20	8/12/92	unFb	3.4	✓			
X	7C	G/G	16,54	8/17/92	Bogr	25.1	✓			
X	7C	G/G	16,54	8/17/92	spco, ^{cedr.} _{plpa}	1.1	✓			
X	5b	u/G	40.5,3	8/13/92	Bogr	32.5	util	✓		
X	5b	u/G	40.5,3	8/13/92	Agsm	1.1	util	✓		
X	5b	u/G	40.5,3	8/13/92	Cahe	0.5	util	✓		
X	5b	u/G	40.5,3	8/13/92	saka, ^{sper} _{spco}	0.4	util	✓		
X	5a	u/G	27,11	8/12/92	Bogr	17.2	util	✓		
X	5a	u/G	27,11	8/12/92	muso	0.1	util	✓		
X	5a	u/G	27,11	8/12/92	spco	0.1	util	✓		
X	11	uG/G2	64,14	8/13/92	Agsm	60.1	util	✓		
X	11	uG/G2	64,14	8/13/92	spco	1.2	util	✓		
X	11	uG/G2	64,14	8/13/92	Agsm	2.0	util	✓		
X	11	uG/G2	64,14	8/13/92	Ast-Spp	0.2	util	✓		
X	11	uG/G2	64,14	8/13/92	Chle	2.1	util	✓		
X	11	uG/G2	64,14	8/13/92	Buda	0.3	util	✓		
X	11	uG/G2	64,14	8/13/92	unFB	0.09	util	✓		
X	11	uG/G2	64,14	8/13/92	Bogr	4.0	util	✓		
X	11	uG/G2	64,14	8/13/92	Saka	0.6	util	✓		
X	11	uG/G2	64,14	8/13/92	oppo	0.2	util			
X	5b	G/G	11.5,48	8/13/92	Bogr	19.5	✓			
X	5b	G/G	11.5,48	8/13/92	Buda	0.2	✓			
X	5b	G/G	11.5,48	8/13/92	Cahe	0.7	✓			
X	5b	G/G	11.5,48	8/13/92	muta	1.1	✓			
X	5b	G/G	11.5,48	8/13/92	muso	0.1	✓			

These were changed to 5B u/G in the final data file, as the (x,y) coordinates fit there! And otherwise the plot would have been too little for 5A and missing for 5B.

2 bags of pants

ASOX

LTFR EXCI. Exp Npp 1992 - Data Sheet for Weights

11

Yr	Exci #	Treatment	Coord.	date	species	WT.	util			
92	11	G16	27,14	8/12/92	Buda	2.3	✓			
	11	G16	27,14	8/12/92	Cahe	0.2	✓			
	11	G16	27,14	8/12/92	Bogr	0.2	✓			
X	5a	un162	39.5,18.5	8/14/92	Bogr	9.7	util ✓			
X	5a	un162	39.5,18.5	8/14/92	"Bitter Rabbit Brush"	5.6	util ✓	CHNA		
X	5a	un162	39.5,18.5	8/14/92	spco/saka	1.0	util ✓			
X	5a	un162	39.5,18.5	8/14/92	Agsm	8.1	util ✓			
X	5a	un162	39.5,18.5	8/14/92	Bitter Rabbit Brush CHNA	7.2	util ✓			
X	5a	un162	39.5,18.5	8/14/92	Cahe	3.8	util ✓			
	24	G16	83,10	8/12/92	Bogr	6.5	util ✓			
	24	G16	83,10	8/12/92	Buda	4.7	util ✓			
	24	G16	83,10	8/12/92	spco, pip Cahe	0.3	util ✓			
X	7C	G16	17.5,32	8/12/92	Bogr	16.8	util ✓			
X	7C	G16	17.5,32	8/12/92	spcr/muse	0.8	util ✓			
X	7C	G16	17.5,32	8/12/92	spco	1.0	util ✓			
X	5A	u16	24.5,27.5	8/14/92	Bogr	11.6	util ✓			
X	5A	u16	24.5,27.5	8/14/92	Saka	1.1	util ✓			
X	5A	u16	24.5,27.5	8/14/92	Argu	1.4	util ✓			
X	5A	u16	24.5,27.5	8/14/92	spco	0.3	util ✓			
X	5A	u16	24.5,27.5	8/14/92	Cahe	1.1	util ✓			
X	11	u16	26.5,35	8/11/92	Buda	11.9	util ✓			
X	11	u16	26.5,35	8/11/92	Bogr	0.7	util ✓			
X	11	u16	26.5,35	8/11/92	Agsm	0.7	util ✓			
X	11	u16	26.5,35	8/11/92	spco, Agsm Cahe, muse	3.5	util ✓			
X	7C	G1u	16,54	8/17/92	Bogr	32.3	✓			
X	7C	G1u	16,54	8/17/92	spco, Agsm Saka, Cahe	1.6	✓			
X	7C	G1u	16,54	8/17/92	Erof	12.2	✓			

LTER EXCI. Exp NPP 1992 - Data Sheet for Weights (12)

Yr	EXCI #	Treatment	Coord	date	Species	WT	util			
X	92	SB	62/Un	11.5, 48	8-13-92	Bogr	71.1	✓		
X	SB	62/Un	11.5, 48	8/13/92	Agsm	1.1	✓			
X	SB	62/Un	11.5, 48	8/13/92	Lecle	0.2	✓			
X	SB	62/Un	11.5, 48	8/13/92	unFB	0.6	✓			
X	11	U/G	26.5, 33	8/11/92	Buda	7.4	✓			
X	11	U/G	26.5, 33	8/11/92	Spc	0.2	✓			
X	11	U/G	26.5, 33	8/11/92	Cahe	0.1	✓			
X	11	U/G	26.5, 33	8/11/92	Bogr	0.8	✓			
X	19A	62/UG	19.5, 28	8/11/92	Bogr	42.8	✓			
X	19A	62/UG	19.5, 28	8/11/92	unFB/chic	0.1	✓			
X	19A	62/UG	19.5, 28	8/11/92	Spc	0.4	✓			
X	19A	62/UG	19.5, 28	8/11/92	Spcr	2.5	✓			
X	5b	G/G	11.5, 50	8/14/92	Bogr	29.1	util ✓			
X	5b	G/G	11.5, 50	8/14/92	CAHe	0.4	util ✓			
X	5b	G/G	11.5, 50	8/14/92	AGSM	0.1	util ✓			
X	5b	G/G	25.5, 29.5	8/14/92	Bogr	22.8	util ✓			
X	5b	G/G	25.5, 29.5	8/14/92	Cahe/Prop	1.8	util ✓			
X	5b	G/G	25.5, 29.5	8/14/92	Buda	0.6	util ✓			
X	7C	Un/Un	13.5, 21.5	8/14/92	Bogr	18.0	✓			
X	7C	Un/Un	13.5, 21.5	8/14/92	Lecle/chic	0.2	✓			
X	7C	Un/Un	13.5, 21.5	8/14/92	Cahe	2.3	✓			
X	7C	Un/Un	13.5, 21.5	8/14/92	Spc	4.0	✓			
X	SA	U/G	24.5, 25.5	8/14/92	Bogr	28.4	✓			
X	SA	U/G	24.5, 25.5	8/14/92	winterfat	0.1	✓			
X	SA	U/G	24.5, 25.5	8/14/92	Spc	0.1	✓			
X	SA	U/G	24.5, 25.5	8/14/92	Saka	1.3	✓			
X	11	G/G	40, 23.5	8/13/92	Bogr	19.9	util ✓			

Yr	EXCI #	Treatment	Coord.	date	Species	WT	util			
X 92	11	G1G	40,23.5	8/13/92	Cahe	7.3	util ✓			
X	11	G1G	40,23.5	8/13/92	Agsm	1.1	util ✓			
X	11	G1G	40,23.5	8/13/92	SpcO	2.7	util ✓			
X	11	G1G	40,23.5	8/13/92	Buda	7.9	util ✓			
X	Sb	un/un	27,9	8/13/92	Bogr	31.5	✓			
X	Sb	un/un	27,9	8/13/92	Agsm	1.8	✓			
	11	G1G	64,12	8/12/92	Bogr	17.0	✓			
	11	G1G	64,12	8/12/92	unFb	0.04	✓			
	11	u/u	64,12	8/12/92	Agsm	2.0	✓			
	11	u/u	64,12	8/12/92	oxy ^{SPD} /musc	1.0	✓			
	11	u/u	64,12	8/12/92	CAHE	0.7	✓			
✓	11	G1u	20,56	8/13/92	Bogr	34.8	✓			
✓	11	G1u	20,56	8/13/92	Assp/Agsm	7.5	✓			
✓	11	G1u	20,56	8/13/92	SpcO/chle	0.4	✓			
✓	Sb	un/un	54,2.5	8/13/92	Bogr	33.6	✓			
✓	Sb	un/un	54,2.5	8/13/92	SpcO	0.1	✓			
✓	Sb	un/un	54,2.5	8/13/92	Agsm	2.1	✓			
✓	Sb	un/un	54,2.5	8/13/92	musc	0.2	✓			
✓	Sb	un/un	54,2.5	8/13/92	Cahe	0.1	✓			
✓	SA	G1G	18.5,34	8/12/92	Bogr	12.4	✓			
✓	SA	G1G	18.5,34	8/12/92	SpcO	0.1	✓			
✓	19	G1G	19.5,28	8/11/92	Bogr	28.1	✓			
✓	19	G1G	19.5,28	8/11/92	musc	0.1	✓			
✓	19	G1G	19.5,28	8/11/92	Spcr	7.8	✓			
✓	19	G2/G2	19.5,28	8/11/92	SpcO/cede	1.0	✓			
✓	19	G2/G2	19.5,28	8/11/92	Si.hg	0.3	✓			
✓	9	u/G	12,57	8/11/92	Bogr	35.2	util ✓			

} ended up changing the treatment on these to u/u, where everything else was a good fit!

} Changed this to SB in the final data file, as that is where it fit!

LTER ExC1 Npp 1992 - Data sheet for weights (19)

Yr	ExC1 #	Treatment	Coord.	date	species	WT.	util			
x 92	11a	UN/62	44,25.5	8/13/92	Bogr	0.9	util ✓			
x	11a	UN/62	44,25.5	8/12/92	cahe	8.8	util ✓			
x	11a	un/62	44,25.5	8/12/92	oxy.spp.	5.2	util ✓	ASOX		
x	11a	un/62	44,25.5	8/12/92	unknown	0.3	util ✓	UNFB		
x	11a	un/62	44,25.5	8/12/92	Agsm	1.7	util ✓			
x	11a	un/62	44,25.5	8/12/92	spco	2.8	util ✓			
x	11a	un/62	44,25.5	8/12/92	Arfr/saka	1.4	util ✓			
x	19	un/62	19,20	8/11/92	Bogr	7.2	✓			
x	19	un/62	19,20	8/11/92	STCO	17.5	✓			
x	19	un/62	19,20	8/11/92	unknown	0.1	✓			
x	19	un/62	19,20	8/11/92	saka/spco	0.8	✓			
x	19	un/62	19,20	8/11/92	STCO	14.3	✓			
x	19	un/62	19,22	8/11/92	Bogr	5.4	util ✓			
x	19	un/62	19,22	8/11/92	Sihy	12.4	util ✓			
x	19	un/62	19,22	8/11/92	Sihy	16.0	util ✓			
x	19	un/62	19,22	8/11/92	spco, chie saka	1.2	util ✓	FORB		
x	19	un/62	19,22	8/11/92	unknown	0.1	util ✓			
x	19	un/62	51,21.5	8/11/92	Bogr	31.2	util ✓	Changed to GG in final data		
x	19	un/62	51,21.5	8/11/92	spco	0.1	util ✓			
x	19	un/62	51,21.5	8/11/92	cahe	4.3	util ✓			
✓	19A	UG/62	21,55	8/11/92	Bogr	30.0	util ✓			
✓	19A	UG/62	21,55	8/11/92	spco	0.6	util ✓			
✓	19A	UG/62	21,55	8/11/92	unFB	0.7	util ✓			
✓	19A	UG/62	21,55	8/11/92	UNFB	1.3	util ✓			
✓	5b	UN/62	58,25	5/13/92	Bogr	22.4	✓			
✓	5b	UN/62	58,25	5/13/92	Arfr	25.8	✓			
✓	5b	UN/62	58,25	5/13/92	oxy.spp.	0.5	✓	ASOX		

Yr	EXCI #	Treatment	Coord	date	species	WT.	util			
92	Sb	un162	58,25	8/13/92	Agsm	0.3	✓			
✓	Sb	un162	58,25	5/13/92	Cahe	0.6	✓			
✓	Sb	un162	58,25	5/13/92	muta	1.1	✓			
✓	Sb	un162	58,25	8/13/92	Spco	0.1	✓			
✓	Sa	un162	39.5,16.5	8/14/92	Boqr	21.8	✓			
✓	Sa	un162	39.5,16.5	8/14/92	Bitter Rabbit Brush	7.2	✓	CHNA		
✓	Sa	un162	39.5,16.5	8/14/92	Agsm	19.2	✓			
✓	Sa	un162	39.5,16.5	8/14/92	Cahe	0.5	✓			
✓	Sa	un162	39.5,16.5	8/14/92	Bitter Rabbit Brush	11.0	✓	CHNA		
✓	Sa	un162	39.5,16.5	8/14/92	Bitter Rabbit Brush	4.8	✓	CHNA		
✓	Sa	un162	39.5,16.5	8/14/92	Spco	0.3	✓			
✓	Sa	un162	39.5,16.5	8/14/92	SaKa	1.5	✓			
✓	Z4	GZ/UG	11,55	8/12/92	Boqr	5.2	✓			
✓	Z4	GZ/UG	11,55	8/12/92	Ast.Spp	0.5	✓			
✓	Z4	GZ/UG	11,55	8/12/92	Buda	2.0	✓			
✓	Z4	GZ/UG	11,55	8/12/92	Cahe	0.2	✓			
	Sb	un162	58,27	8/13/92	Boqr	19.2	util ✓			
	Sb	un162	58,27	8/13/92	Cahe	0.3	util ✓			
	Sb	un162	58,27	8/13/92	Agsm	0.7	util ✓			
	Sb	un162	58,27	8/13/92	musq	0.1	util ✓			
	Sb	un162	58,27	8/13/92	Spco	0.1	util ✓			
✓	11	GZ/UG	27,44	8/13/92	Boqr	44.2	✓			
✓	11	GZ/UG	27,44	8/13/92	unFB #1 unFB #2	0.8	✓	unFB		
✓	11	GZ/UG	27,44	8/13/92	unFB	0.5	✓			
✓	11	GZ/UG	27,44	8/13/92	unFB	0.2	✓			
✓	11	GZ/UG	27,44	8/13/92	Piop	0.4	✓			
✓	11	GZ/UG	27,44	8/13/92	Spco	2.0	✓			

yr	EXCI #	Treatment	Coord.	date	species	WT.	util			
92	11	G2/UG	27,44	8/13/92	Agsm	9.7	✓			
✓	11	G2/UG	27,44	8/13/92	Chlc	1.3	✓			
✓	11	G2/UG	27,44	8/13/92	Ast.Spp	4.1	✓	ASOX		
✓	11	G2/UG	27,44	8/13/92	Lede	0.2	✓			
✓	19	G1G	93,12	8/11/92	Bogr	36.0	✓			
✓	19	G1G	93,12	8/11/92	SpcO	0.1	✓			
✓	19	G1G	93,12	8/11/92	Buda	3.6	✓			
✓	19	G1G	93,12	8/11/92	UnFb	0.2	✓			
✓	19	G1G	93,12	8/11/92	Spcr	3.6	✓			
✓	24	U1G	19.5,25	8/11/92	ARFR	13.5	✓	NPR		
✓	24	U1G	19.5,25	8/11/92	AGSM	8.5	✓	NPD		
✓	24	U1G	19.5,25	8/11/92	SpcO	0.4	✓	NPA		
✓	19	U1G	21,53	8/11/92	Bogr	33.8	✓			
✓	19	U1G	21,53	8/11/92	oppo	2.4				
✓	19	U1G	21,53	8/11/92	SpcO/UnFb	0.6	✓			
✓	19	U1G	21,53	8/11/92	UnFb	0.3	✓			
✓	7C	Un1G2	13.5,21.5	8/17/92	Bogr	13.5	✓			
✓	7C	Un1G2	13.5,21.5	8/17/92	Spcr	22.2	✓			
✓	7C	Un1G2	13.5,21.5	8/17/92	StCO	4.7	✓			
✓	7C	Un1G2	13.5,21.5	8/17/92	UnFb	0.1	✓			
✓	7C	Un1G2	13.5,21.5	8/17/92	SpcO	0.3	✓			
✓	7C	Un1G2	13.5,21.5	8/17/92	cahe	1.1	✓			
✓	24	UG/UG	67,20	8/12/92	Bogr	6.8	✓			
✓	24	UG/UG	67,20	8/12/92	Buda	20.2	✓			
✓	24	UG/UG	67,20	8/12/92	Agsm	9.3	✓			
✓	24	UG/UG	67,20	8/12/92	piop	0.2	✓			
✓	24	UG/UG	67,20	8/12/92	cahe	6.0	✓			

Yr.	EXCI#	Treatment	Coord	date	species	WT.	util			
✓ 92	11	u1G	9,38	8/12/92	Bogr	4.9	✓			
✓	11	u1G	9,38	8/12/92	Agsm, saka spco	9.5	✓			
✓	11	u1G	9,38	8/12/92	ArFr, erof UnFb	3.0	✓			
✓	7C	un1G2	30,66	8/17/92	Bogr	10.4	✓	UTIL	} changed to "util" in final data file, at (30,66) in the NPP plot.	
✓	7C	un1G2	30,66	8/17/92	Agsm	2.5	✓	UTIL		
✓	7C	un1G2	30,66	8/17/92	ArFr	5.6	✓	UTIL		
✓	7C	un1G2	30,66	8/17/92	spco/saka	2.3	✓	UTIL		
✓	24	Gr1Gr	93,-1	8/12/92	Bogr	31.5	✓			
✓	24	Gr1Gr	93,-1	8/12/92	spco	0.1	✓			
✓	24	Gr1Gr	93,-1	8/12/92	Lede	0.1	✓			
✓	24	Gr1Gr	93,-1	8/12/92	Buda	1.2	✓			
✓	24	Gr1Gr	93,-1	8/12/92	UnFb	0.2	✓			
✓	24	Gr1Gr	93,-1	8/12/92	cohe	3.4	✓			
✓	5a	G1G	42.5,9	8/12/92	Bogr	44.4	util ✓			
✓	5a	G1G	42.5,9	8/12/92	spco	0.1	util ✓			
✓	5a	G1G	42.5,9	8/12/92	saka/cohe	0.1	util ✓			
✓	7C	G21G2	12.5,77	8/17/92	Bogr	17.5	✓			
✓	7C	G21G2	12.5,77	8/17/92	spcr	6.1	✓			
✓	7C	G21G2	12.5,77	8/17/92	spco	0.5	✓			
✓	7C	G21G2	12.5,77	8/17/92	Agsm	2.5	✓			
✓	19A	G1G	68.5,16	8/11/92	Bogr	29.7	util ✓		probably (69,18)	
✓	19A	G1G	68.5,16	8/11/92	spcr	2.9	util ✓		"	
✓	19A	G1G	68.5,16	8/11/92	Pipa	0.1	util ✓		"	
✓	5A	u1u	24.5,25.5	8/14/92	Bogr	15.8	✓			
✓	5A	u1u	24.5,25.5	8/14/92	spco	0.6	✓			
✓	5A	u1u	24.5,25.5	8/14/92	Agsm	2.1	✓			
✓	5A	u1u	24.5,25.5	8/14/92	ArFr	0.1	✓			

Yr	EXCI#	Treatment	Coord.	date	Species	WT.	Util			
✓ 92	7C	un/62	30,65	8/17/92	Bogr	26.0	✓			
✓	7C	un/62	30,65	8/17/92	ArFr	26.2	✓			
✓	7C	un/62	30,65	8/17/92	Sihy	1.7	✓			
✓	7C	un/62	30,65	8/17/92	Agsm	0.4	✓			
✓	7C	un/62	30,65	8/17/92	chle	0.2	✓			
✓	7C	un/62	30,65	8/17/92	spco	1.2	✓			
✓	24	un/un	19.5,25	8/12/92	Bogr	4.5	✓			
✓	24	un/un	19.5,25	8/12/92	spco/saka	2.2	✓			
✓	24	un/un	19.5,25	8/12/92	cahe	1.5	✓			
✓	24	un/un	19.5,25	8/12/92	Buda	0.4	✓			
✓	24	un/un	19.5,25	8/12/92	Bitter Rabbit Brush	2.6	✓	CHNA		
✓	7C	u/6	35,85	8/17/92	Bogr	18.3	util ✓			
✓	7C	u/6	35,85	8/17/92	spco/saka	2.3	util ✓			
✓	7C	u/6	35,85	8/17/92	Sihy/stco	6.9	util ✓			
✓	5b	62/62	24.5,42	8/14/92	Bogr	10.0	util ✓			
✓	5b	62/62	24.5,42	8/14/92	Buda	5.7	util ✓			
✓	5b	62/62	24.5,42	8/14/92	spco	0.1	util ✓			
✓	5b	62/62	24.5,42	8/14/92	Agsm	0.1	util ✓			
✓	5b	62/62	24.5,42	8/14/92	cahe	0.3	util ✓			
✓	24	62/un	40,48	8/12/92	Bogr	22.6	✓			
✓	24	62/un	40,48	8/12/92	spw/pipa	0.7	✓			
✓	24	62/un	40,48	8/12/92	Lede	0.7	✓			
✓	24	62/un	40,48	8/12/92	Agsm	2.5	✓			
✓	7C	62/62	20.5,12.5	8/17/92	Bogr	13.3	util ✓			
✓	7C	62/62	20.5,12.5	8/17/92	spco	0.1	✓			
✓	7C	62/62	20.5,12.5	8/17/92	cahe	1.2	✓			
✓	19A	u6/u6	10.5,7.5	8/11/92	Bogr	7.0	✓			

ALTER EXCI NPP 1992 - Data sheet for weights

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Yr	EXCI#	Treatment	coord.	date	Species	WT.	util			
X	92	19A	UG/UG	10.5,75	8/11/92	Spco	3.2	✓		
X	19A	UG/UG	10.5,75	8/11/92	Agsm	22.6	✓			
X	19A	UG/UG	10.5,75	8/11/92	Saka	0.2	✓			
X	19A	UG/UG	10.5,75	8/11/92	cahe	1.3	✓			
X	19A	Gr/UG	19.5,28	8/11/92	Spcr	2.3	✓			
✓	7C	G/G	17.5,30	8/17/92	Bogr	20.4	✓			
✓	7C	G/G	17.5,30	8/17/92	cahe	0.1	✓			
✓	7C	G2/un	20.5,12.5	8/17/92	Bogr	16.4	✓			
✓	7C	G2/un	20.5,12.5	8/17/92	cahe	0.5	✓			
✓	7C	G2/un	20.5,12.5	8/17/92	unFb	0.1	✓			
✓	7C	G2/un	20.5,12.5	8/17/92	Spco	0.1	✓			
✓	24	G2/G2	93,1	8/12/92	Bogr	20.9	util ✓	✓		
✓	24	G2/G2	93,1	8/12/92	cahe	5.7	util ✓			
✓	24	G2/G2	93,1	8/12/92	Ar10	2.3	util ✓			
✓	24	G2/G2	93,1	8/12/92	Spco	0.8	util ✓			
✓	24	UN/UN	83,33.5	8/12/92	Bogr	4.6	✓			
✓	24	UN/UN	83,33.5	8/12/92	Agsm	24.8	✓			
✓	24	UN/UN	83,33.5	8/12/92	Agsm	15.5	✓			
✓	24	UN/UN	83,33.5	8/12/92	Spco	3.7	✓			
✓	24	UN/UN	83,33.5	8/12/92	Piop/Chy mus	1.0	✓			
✓	24	UN/UN	83,33.5	8/12/92	unknown	1.8	✓			
✓	7C	G/U	17.5,30	8/17/92	Bogr	27.6	✓			
✓	7C	G/U	17.5,30	8/17/92	cahe	0.8	✓			
✓	7C	G/U	17.5,30	8/17/92	Spco	0.7	✓			
✓	7C	U/G	35,83	8/17/92	Bogr	28.8	✓			
✓	7C	U/G	35,83	8/17/92	Spco Led Chie Agsm	6.9	✓			
✓	7C	G2/G2	12.5,79	8/17/92	Bogr	14.3	util ✓			

Yr	EXCI. #	Treatment	Coord.	date	species	WT.	util			
✓ 92	7C	G1G	12.5, 79	8/17/92	Agsm	2.5	util ✓			
✓	7C	G1G	12.5, 79	8/17/92	unfb	0.1	util ✓			
✓	7C	G1G	12.5, 79	8/17/92	unfb	0.7	util ✓			
✓	7C	G2/G2	12.5, 79	8/17/92	spco/chlc	0.3	util ✓			
✓	7C	G1G	12.5, 79	8/17/92	Erof	1.9	util ✓			
✓	7C	G1G	12.5, 79	8/17/92	unknown	0.7	util ✓			
✓	7C	G1G	12.5, 79	8/17/92	spcr	2.3	util ✓			
✓	24	G1U	34, 17	8/11/92	Bogr	10.4	✓			
✓	24	G1U	34, 17	8/11/92	PIPA	0.4	✓			
✓	24	G1U	34, 17	8/11/92	cahe	0.04	✓			
✓	24	G1U	34, 17	8/11/92	musq	0.06	✓			
✓	24	G1U	34, 17	8/11/92	uxf	0.02	✓			
✓	24	G1U	34, 17	8/11/92	ledl	0.2	✓			
✓	24	G1U	34, 17	8/11/92	spco	0.1	✓			
✓	24	G1U	34, 17	8/11/92	spkr	0.5	✓			
✓	24	U1U	39, 15.5	8/12/92	Bogr	2.9	✓			
✓	24	U1U	39, 15.5	8/12/92	Buda	8.8	✓			
✓	24	U1U	39, 15.5	8/12/92	spco/cahe	3.1	✓			
✓	24	G2/G2	69.5, 17	8/12/92	Buda	14.3	✓			
✓	24	G2/G2	69.5, 17	8/12/92	musq	0.1	✓			
✓	24	G2/G2	69.5, 17	8/12/92	spco	0.6	✓			
✓	24	G2/G2	69.5, 17	8/12/92	Bogr	2.8	✓			
✓	24	G2/G2	69.5, 17	8/12/92	cahe	1.4	✓			
✓	11a	UN/UN	26.5, 33	8/12/92	Bogr	10.3	✓			
✓	11a	un/un	26.5, 33	8/12/92	spco	1.2	✓			
✓	11a	un/un	26.5, 33	8/12/92	saka	0.7	✓			
✓	11a	un/un	26.5, 33	8/12/92	cahe	1.5	✓			

LTER EXCI. Exp. NPP 1992 - Data sheet for Weights (2)

Yr	EXCI. #	Treatment	Coord.	date	species	WT.	util			
✓ 92	11a	un/un	26.5, 33	8/12/92	Agsm	11.4		✓		
✓	24	U/G	19.5, 27	8/11/92	Agsm	4.9	util	✓		
✓	24	U/G	19.5, 25	8/11/92	unFb	0.3	util	✓		
✓	24	U/G	19.5, 25	8/11/92	muso	0.3	util	✓		
✓	24	U/G	19.5, 25	8/11/92	Bogr	0.2	util	✓		
X	24	G/G	57.5, 28	8/11/92	Buda	2.1	util	✓		
X	24	G/G	57.5, 28	8/11/92	uKF	0.2	util	✓		
X	24	G/G	57.5, 28	8/11/92	Cane	0.1	util	✓		
X	24	G/G	57.5, 28	8/11/92	Bogr	0.3	util	✓		
	24	G/G	57.5, 28	8/11/92	Buda	1.6	✓			
					Buda	1.3	✓			
X	24	G/G	57.6, 26	8/11/92	Cane	0.02	✓			
X	24	G/G	57.6, 26	8/11/92	uK2	0.02	✓			
✓	24	G/G	83, 8	8/12/92	Bogr	6.7	✓			
X	24	G/G	83, 8	8/12/92	Buda	3.8	✓			
X	24	G/G	83, 8	8/12/92	Cane	1.6	✓			
✓	24	G/G	69.5, 19	8/12/92	Bogr	9.7	util	✓		
✓	24	G/G	69.5, 19	8/12/92	Cane	1.1	util	✓		
✓	24	G/G	69.5, 19	8/12/92	Buda	14.3	util	✓		
✓	24	G/G	69.5, 19	8/12/92	Piop	0.3	util	✓		
✓	11	U/G	44, 23.5	8/12/92	Bogr	16.0	✓			
✓	11	U/G	44, 23.5	8/12/92	SpCO	1.2	✓			
✓	11	U/G	44, 23.5	8/12/92	ArFr	7.7	✓			
✓	11	U/G	44, 23.5	8/12/92	OxySpp	5.7	✓			
✓	11	U/G	44, 23.5	8/12/92	AGSm	10.2	✓			
✓	11	U/G	44, 23.5	8/12/92	Cane	1.8	✓			
✓	11	U/G	44, 23.5	8/13/92	unFb/SAKA	0.1	✓			
✓	11	U/G	44, 23.5	8/13/92	Buda	1.5	✓			

These 3 changed to (20, 27) in final data file to match the Coord. for Agsm which was most likely used as the plot bag.

Yr	ExCl. #	Treatment	coord.	date	species	WT.	util
92	11	U/U	44,23.5	8/11/92	Saka	15.2	X
	11	U/U	44,23.5	8/11/92	Agsrn	16.6	✓
	11	U/U	44,23.5	8/11/92	Oxy	2.8	✓
✓	24	U/G	83,35.5	8/12/92	Bogr	18.1	util ✓
✓	24	U/G	83,35.5	8/12/92	Cafe	0.9	util ✓
L	24	U/G	83,35.5	8/12/92	Buda	0.3	util ✓
✓	24	U/G	83,35.5	8/12/92	ArFr	11.2	util ✓
✓	24	U/G	83,35.5	8/12/92	Musa	0.9	util ✓
L	24	U/G	83,35.5	8/12/92	Sihy	0.7	util ✓
L	24	U/G	83,35.5	8/12/92	SpcO	0.3	util ✓

ASOX

Separate 4 from original field - single bag

Yr	EXCI #	Treatment	Coord	date	species	WT	util	?
92	11	G16	15,69	8/13/92	piop	0.1	util	x
	11	G16	15,69	8/13/92	Arlo	4.2	util	x
	11	G16	15,69	8/13/92	cahe	0.7	util	x
	11	G16	15,69	8/13/92	unFb	0.3	util	x
	11	G16	15,69	8/13/92	spco	0.7	util	x
	24	U16	67,22	8/12/92	Saka	0.1	util	x
	24	U16	67,22	8/12/92	cahe	0.6	util	x
	24	U16	67,22	8/12/92	unFB	0.3	util	x
	24	U16	67,22	8/12/92	chle	1.8	util	x
	24	U16	67,22	8/12/92	Agsm	0.9	util	x
	24	U16	67,22	8/12/92	Arfr	0.1	util	x
	24	U16	67,22	8/12/92	spco	0.3	util	x
	24	G16	83,10	8/12/92	spco	0.1	util	x
	24	G16	83,10	8/12/92	cahe	0.2	util	x
	24	G16	83,10	8/12/92	plpa	0.1	util	x
	SB	U16	54,2.5	8/13/92	cahe	0.9		x
	SB	U16	54,2.5	8/13/92	Arfr	1.7		x
	SB	U16	54,4.5	8/13/92	Agsm	2.0	util	x
	SB	U16	54,4.5	8/13/92	Arfr	1.9	util	x
	SB	U16	54,4.5	8/13/92	lede	0.1	util	x
	SB	U16	54,4.5	8/13/92	spco	1.3	util	x
	11	U16	26.5,35	8/13/92	piop	0.5	util	x?
	11	U16	26.5,35	8/13/92	cahe	1.9	util	x
	11	U16	26.5,35	8/13/92	spco	0.1	util	x
	11	U16	26.5,35	8/13/92	Asgr	0.9	util	x
	SA	G16	44,16	8/14/92	Bogr	42.4		x
	SA	G16	44,16	8/14/92	chle	0.06		x

Yr	EXCI #1	treatment	Coord	date	Species	WT	util	Done update		
92	5A	G/G	44,16	8/14/92	CAHE	2.6		x		
	11	G/G	15,67	8/13/92	ASTR	6.6		x		
	11	G/G	15,67	8/13/92	SXCO	0.9		x		

add to orig sheet (> plots)

5A	G/G	44,18	8-14-92	UNFB	0.81	util	x		
5A	G/G	44,18	8-14-92	SXCO	3.97	util	x		
5A	G/G	44,18	8-14-92	BOGR	2.45	util	x		
11	G/G	27,44	8-12-92	BOGR	0.15		x		
11	G/G	27,44	8-12-92	CAHE	0.13		x		
11	G/G	27,44	8-12-92	BUDA	2.36		x		

New ones?

5A	GG	44,16		BOGR	42.4
5A	GG	44,16		CHLE	0.06
5A	GG	44,16		CAHE	2.6

ENCLOSURE EXPERIMENT NPP 1992

Oppo Only 1 of 4

VR	Excl. #	TREATMENT	COORD.	DATE	SPECIES	WT.	UTIL		
✓	37	U/U	35, 83	8-14-92	*OPPO*	6.09g			
✓	5b	GZ/GZ	24.5, 42	8-14-92	OPPO	1.13g	"UTIL" Added to match the rest of this plot on final data file.		
✓	24	U/G	83, 33.5		OPPO	0.0101g			
✓	5b	G/G	11.5, 50	8-14-92	OPPO	0.94g	UTIL		
✓	24	UN/UN	19.5, 25	8-12-92	OPPO	6.34g			
✓	7C	U/G	35, 83	8-17-92	OPPO	1.81g			
✓	24	Gr/Gr	93, -1	8-12-92	OPPO	0.01g			
✓	5A	U/U	15.5, 22	8-14-92	OPPO	0.28g			
✓	5b	U/G	54, 2.5	8-13-92	OPPO	1.20g			
✓	19	U/G	21, 53		OPPO	2.23g			
✓	24	GZ/GZ	93, 1	8-12-92	OPPO	0.06g	UTIL		
✓	5b	G/G	25.5, 29.5	8-14-92	OPPO	1.58g	UTIL		
✓	11a	GZ/GZ	20, 56		OPPO	0.44g			
✓	5a	G/G	18.5, 36	8-14-92	OPPO	3.06g	UTIL	(* matches with 5B not 5A)	
✓	7C	G/G	17.5, 30	8-12-92	OPPO/SRCO	1.97g			
✓	7C	U/U	19.5, 47	8-14-92	OPPO	5.48g			
✓	24	U/G	19.5, 25	8-11-92	OPPO	6.69g	UTIL	→ changed to 27	
✓	11A	UN/UN	26.5, 33	8-12-92	OPPO	5.78g			
✓	5b	UN/UN	27, 9	8-13-92	OPPO	4.06g	Added to 4.63 on p. 2 for a total OPPO wt. of 8.69g for this plot.		
✓	24	U/G	19.5, 25	8-11-92	OPPO	5.43g	UTIL	→ changed to 27	
✓	24	U/G	19.5, 25	8-11-92	OPPO	9.07g	UTIL	→ changed to 27	
✓	24	U/G	35, 35.5	8-12-92	OPPO	3.69g	UTIL		
✓	5A	GZ/GZ	39, 23	8-14-92	OPPO	0.06g			
✓	5A	GZ/UN	39, 23	8-14-92	OPPO	6.08g			
✓	5A	U/G	34.5, 28	8-14-92	OPPO	6.57g	UTIL	Added to 6.68 for this plot on the next page for a total weight of 13.25g OPPO. I believe this weight may be duplicated on p. 1.	
✓	24	G/G	69.5, 19	8-12-92	OPPO	0.19g	UTIL		
✓	19	G/G	68.5, 16	8-11-92	OPPO	1.78g			

ENCLOSURE EXPERIMENT NPP 1992 OPPO ONLY

2 of 4

YR	EXCL. #	TREATMENT	COORD.	DATE	SPECIES	WT.	UTIL			
✓	11	G/G	40,23.3	8-13-92	OPPO	9.14g				
✓	7C	U/U	13.5,21.5	8-14-92	OPPO	6.67g				
✓	5A	G/U	39,23	8-14-92	OPPO	6.48g				
✓	7C	U/G	19,42	8-11-92	OPPO	7.46g	util			
✓	5A	G/U	39,23	8-14-92	OPPO	3.19g				
✓	5B	U/U	27,9	8-13-92	OPPO	4.63g				
✓	5A	U/G	34.5,28	8-14-92	OPPO	6.68g				
✓	11	G/G	15,67	8-13-92	OPPO	8.56g				

Added to the 6.48 (above) and
to the 6.08 on the
previous page for a
total of 15.75g OPPO
for 5A GU (39,23)
UTIL Added on final data file.

Exclosure NPP 1992

YR	OPPO	LOCATION	TREATMENT	COORD.	DATE	WEIGHT	UTIL
92	✓OPPO	5A	U/G	24.5, 25.5	8-14-92	37.05g	
	✓OPPO	19A	G/U	19.5, 28	8-11-92	11.98g	
	✓OPPO	5A	GZ/GZ	44, 18	8-14-92	10.63g	UTIL

YR	Excl. #	Treatment	Coord	Date	Species	Wt.	UTIL
✓92	7C	GZ/GZ	12.5, 79	8-17-92	OPPO	14.48	UTIL
✓92	5B	U/U	40.5, 1	8-13-92	OPPO	22.10	——
✓92	5A	GZ/GZ	39, 25	8-14-92	OPPO	8.09	UTIL
✓92	11	U/U	44, 23.5	8-11-92	OPPO	65.99	——
✓92	24	G/U	43, 27	8- -92	OPPO	12.52	——
✓92	19	GZ/GZ	51, 21.5	8-11-92	OPPO	8.06	UTIL
✓92	7C	G/U	17.5, 30	8-17-92	OPPO	6.97	——

Exclosure Study Coordinate Points 1992

Exclosure 5A

#	UN/UN	UN + UN/GZ	U/G	GZ/UN	GZ/GZ	U/G	U/G
	U/L X	U/L NPP Y	U/L TIL	Plot #	U/L X	U/L Y	U/L
1	15.5	22	cage	✓	1	37.5	5
2	25.5	24.5	cage	✓	2	42.5	7
3	34.5	26	cage	✓	3	39	23
4	39.5	16.5	cage	✓	4	44	16
5	17	7			5	34	51
6	38	17			6	17	29
7	45	9			7	8	10
8	7	17			8	37	36
9	42	22			9	47	33
10	32	27			10	50	16
11	12	8			11	53	41
12	28	9			12	18	15
13	44	21			13	15	53
14	28	14			14	28	20
15	37	21			15	39	47
16	50	22			16	32	50
17	23	6			17	25	40
18	28	22			18	41	09
19	23	15			19	26	53
20	24	22			20	60	13

Exclosure 5B

#	UN/UN	UN + UN/GZ	U/G	GZ/UN	GZ/GZ	U/G	U/G
	U/L X	U/L NPP Y	U/L TIL	Plot #	U/L X	U/L Y	U/L
1	58	25	cage	✓	1	24.5	40
2	54	2.5	cage	✓	2	25.5	27.5
3	40.5	1	cage	✓	3	18.5	34
4	27	9	cage	✓	4	11.5	48
5	56	6			5	34	51
6	80	29			6	17	29
7	73	13			7	8	10
8	48	10			8	37	36
9	48	8			9	47	33
10	7	17			10	50	16
11	42	5			11	53	41
12	39	39			12	18	15
13	33	25			13	15	53
14	42	26			14	28	20
15	33	16			15	39	47
16	70	13			16	32	50
17	35	15			17	25	42
18	66	6			18	41	9
19	53	39			19	26	53
20	20	16			20	60	13

Exclosure Study Coordinate Points 1992

D. core

D. Core $\frac{1}{2}$

Exclosure Study Coordinate Points 1992

Exclosure 24 - Done

UN/UN + UN/GZ			
Plot #	X	Y	
UN/GZ ✓✓✓	83	33.5	cage ✓
✓✓✓	67	20	cage ✓
✓✓✓	39	15.5	cage ✓
✓✓✓	19.5	25	cage ✓
5	17	7	
6	5	42	
7	39	39	
8	25	33	
9	26	42	
10	16	33	
11	42	5	
12	39	18	
13	33	25	
14	42	26	
15	33	16	
16	70	13	
17	35	15	
18	66	6	
19	53	39	
20	20	16	

GZ/UN + GZ/GZ

Plot #	X	Y
✓✓✓	11	55
✓✓✓	40	48
✓✓✓	43	27
✓✓✓	34	17
5	34	51
6	17	29
7	8	10
8	37	36
9	47	33
10	50	16
11	53	41
12	18	15
13	15	53
14	28	20
15	39	47
16	32	50
17	25	40
18	41	9
19	26	53
20	60	13

these are the cage coordinates for GZ/GZ

GZ/GZ	GZ/UN	GZ/GZ
✓✓✓	✓✓✓	✓✓✓
✓✓✓	✓✓✓	✓✓✓
✓✓✓	✓✓✓	✓✓✓
✓✓✓	✓✓✓	✓✓✓

Exclosure 11 - Done

UN/UN + UN/GZ

Plot #	X	Y	
UN/UN ✓✓✓	64	12	cage ✓✓✓
✓✓✓	44	23.5	cage ✓✓✓
✓✓✓	26.5	33	cage ✓✓✓
✓✓✓	9	38	cage ✓✓✓
5	56	6	
6	60	29	
7	73	13	
8	48	10	
9	48	8	
10	7	17	
11	42	5	
12	39	39	
13	33	25	
14	42	26	
15	33	16	
16	70	13	
17	35	15	
18	66	6	
19	53	39	
20	20	16	

GZ/UN + GZ/GZ

Plot #	X	Y	
✓✓✓	15	67	cage ✓✓✓
✓✓✓	20	56	cage ✓✓✓
✓✓✓	27	44	cage ✓✓✓
✓✓✓	40	21.5	cage ✓✓✓
5	34	51	
6	17	29	
7	8	10	
8	37	36	
9	47	33	
10	50	16	
11	53	41	
12	18	15	
13	15	53	
14	28	20	
15	39	47	
16	32	50	
17	25	40	
18	41	9	
19	26	53	
20	60	13	

Field work outline for 8/92

Deep Cores Exlosure 24 was first. Broke cores then revised 8/92
to this protocol

10 cores in each treatment

7 cores to 30cm = 0-15, 15-30
these are plots #1-7

3 cores to 90cm 0-15, 15-30, 30-45, 45-60, 60-75, 75-90
these are plots #8-10

core to 90cm or until you hit hard impervious impenetrable layer
if you stop short mark depth on last bag

ie 60-75 = 60-70

Exlosure Study

20 plots in each treatment

Data sheets -

Do not do density on Bogr or Buda

use danbenmter quads

lift cages to do estimates - Do not move cages to different location

Exlosure NPP

only clipping plots #1-4 in each treatment

in grazed treatments where cages are located we will clip a matching plot for each cage. This is for a rough estimate of utilization.

To locate these plots we will add 2 meters to y coordinate - if new coordinate falls off of grid then subtract 2 meters from y-coordinate

○ matching plot @
24, 49

□ cage @
24, 47

label bags/envelopes

EXCLNPP-UTL → for matching plots only

Sa(site)

UN 92

plot # coordinate

date

specie

← from data sheets for exlosure study

ungrazed treatments - 4 plots each
grazed treatments - 8 plots each

use $\frac{1}{4}m^2$ round quads

Future

Indy - more soil texture cores Pink & Orange flags

Deb - wants to establish (4) permanent plots

Dan - ~~for~~ explore surveyor's instruments as a means of locating plots

Field work outline for 8/92

Deep Cores

Exlosure 24 was first. Broke cores then revised 8/92 to this protocol

10 cores in each treatment

7 cores to 30cm = 0-15, 15-30
these are plots # 1-7

3 cores to 90cm 0-15, 15-30, 30-45, 45-60, 60-75, 75-90
these are plots # 8-10

core to 90 cm or until you hit hard impervious impenetrable layer
if you stop short mark depth on last bag

ie 60-75 = 60-70

Exlosure Study

20 plots in each treatment

Data sheets -

Do not do density on Bogr or Buda

use danbenmier quads

lift cages to do estimates - Do not move cages to different location

Exlosure NPP

only clipping plots #1-4 in each treatment

in grazed treatments where cages are located we will clip a matching plot for each cage. This is for a rough estimate of utilization.

To locate these plots we will add 2 meters to y coordinate - if new coordinate falls off of grid then subtract 2 meters from y-coordinate

○ matching plot @
24, 49

□ cage @
24, 47

label bags/envelopes

EXCL NPP - UTIL → for matching plots only

5a(site)

UN 92 ← from data sheets for exlosure study

plot #
date
specie

ungrazed treatments - 4 plots each
grazed treatments - 8 plots each

use 1/4m² round quads

Future

Inwy - more soil texture cores Pink & Orange flags

Deb - wants to establish (4) permanent plots

Dan - ~~for~~ explore surveyor's instruments as a means of locating plots

Ungrazed/Grazed

1992

Soil Texture

1992

1. (8, 16)

2. (8, 32)

3. (8, 48)

4. (8, 64)

5. (8, 77)

6. (16, 16)

7. (16, 32)

8. (16, 48)

9. (16, 64)

10. (16, 77)

11. (24, 16)

12. (24, 32)

13. (24, 48)

14. (24, 64)

15. (24, 77)

Ungrazed/ungrazed

19A

1. 8, 68

2. 8, 76

3. 8, 84

4. 16, 68

5. 16, 76

6. 16, 84

7. 24, 68

8. 24, 76

9. 24, 84

10. 32, 76

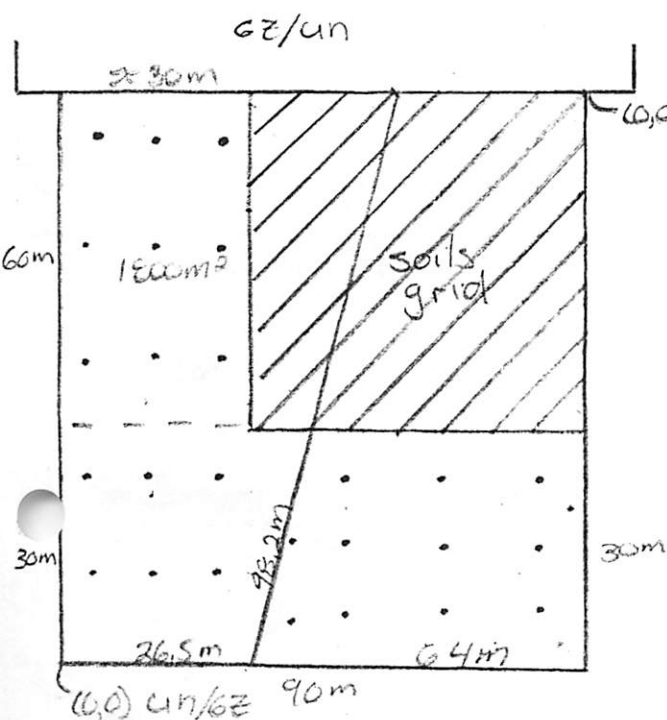
11. 32, 84

} may not fit in enclosure

use for 19A

use for 19A

Dan, wasn't sure how to calculate this, so it's more guess work than anything.



$$2700m^2 \times .00555 = 15pts$$

$$= 34 transects 5pts$$

$$1800m^2 \times .00555 = 10pts$$

45x90

Ungrazed/Grazed

1. (13, 68)
2. (13, 76)
3. (13, 84)
4. (26, 13)
5. (26, 26)
6. (26, 39)
7. (26, 52)
8. (26, 65)
9. (26, 78)
10. (39, 13)
11. (39, 26)
12. (39, 39)
13. (39, 52)
14. (39, 65)
15. (39, 78)

Use For 7C

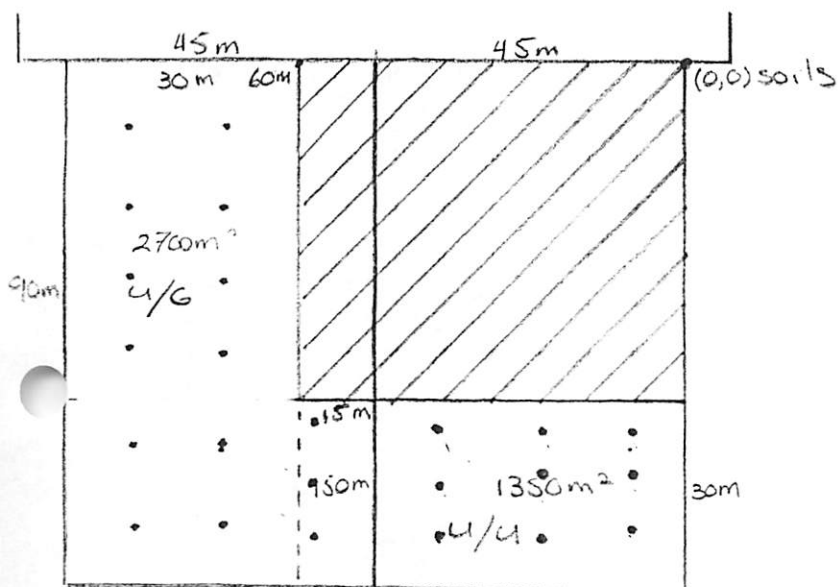
45x90

Ungrazed/Ungrazed

1. (13, 68)
2. (13, 76)
3. (13, 84)
4. (26, 68)
5. (26, 76)
6. (26, 84)
7. (39, 68)
8. (39, 76)
9. (39, 84)

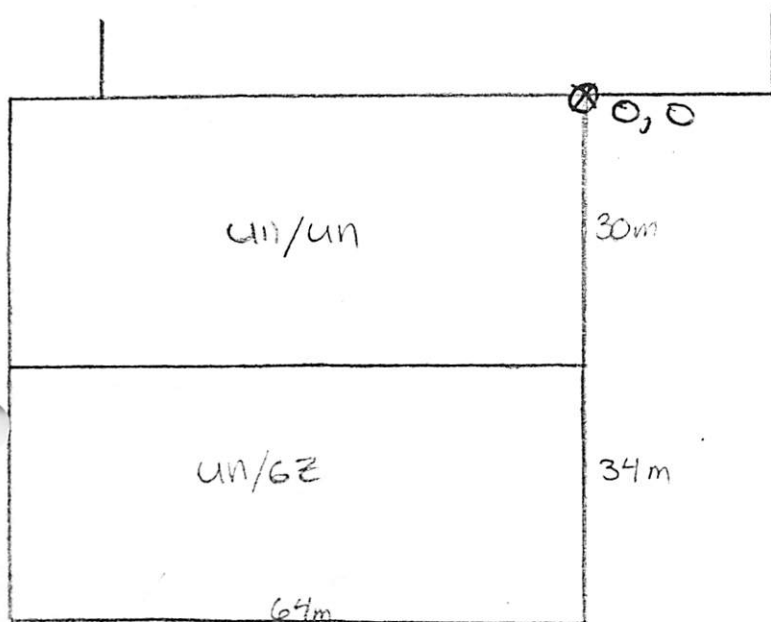
Use For 7C

7C



Ungrazed/Grazed

5A
Ungrazed/ungrazed
Just G/G



where is (G,G) for soils grid?

SB, 11, 24

90x45

Ungrazed/Grazed

1. (68, 13)
2. (76, 13)
3. (84, 13)
4. (13, 26)
5. (26, 26)
6. (39, 26)
7. (52, 26)
8. (65, 26)
9. (78, 26)
10. (13, 39)
11. (26, 39)
12. (39, 39)
13. (52, 39)
14. (65, 39)
15. (78, 39)

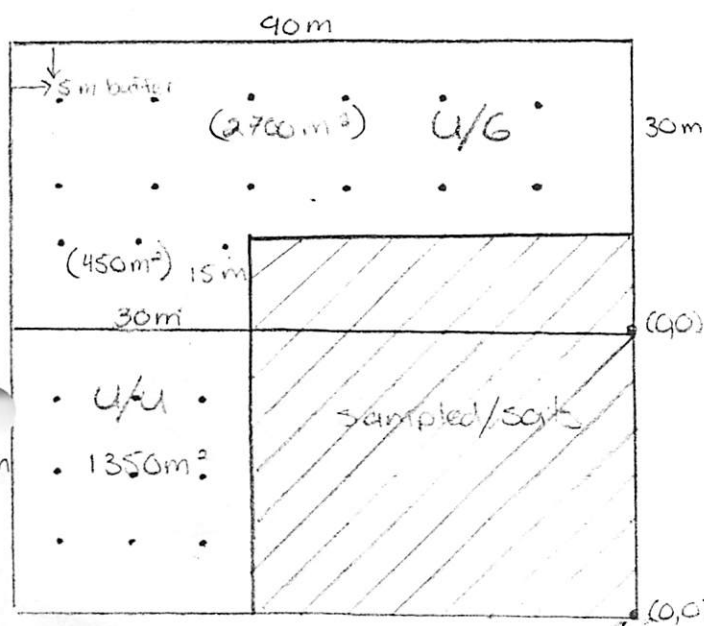
use for SB
11
24

90x115

Ungrazed/ungrazed

1. (68, 13)
2. (76, 13)
3. (84, 13)
4. (68, 26)
5. (76, 26)
6. (84, 26)
7. (68, 39)
8. (76, 39)
9. (84, 39)

use for SB
11
24



Points:

$$2700 \times .00555 = 14.8 \approx 15 \text{ pts.}$$

$$450 \text{ m}^2 \times .00555 = 2.49 \approx 3 \text{ pts.}$$

Transects:

$$45 - 10 \text{ m buffer} = 35 / 3 \text{ transects} \approx 13 \text{ m apart}$$

$$1350 \text{ m}^2 \times .00555 = 7.50 \approx 8 \text{ pts.}$$

Grated/Grazed

60 x 60 meter plot

	X	Y	
1.	(10, 12)		Transect 1
2.	(20, 12)		
3.	(30, 12)		
4.	(40, 12)		
5.	(50, 12)		
6.	(10, 24)		T ₂
7.	(20, 24)		
8.	(30, 24)		
9.	(40, 24)		
10.	(50, 24)		
11.	(10, 36)		T ₃
12.	(20, 36)		
13.	(30, 36)		
14.	(40, 36)		
15.	(50, 36)		
16.	(10, 48)		T ₄
17.	(20, 48)		
18.	(30, 48)		
19.	(40, 48)		
20.	(50, 48)		

Use on all 6 of the circles for
G/G treatment: 5A; 5B; 7C; 11; 19A; 24.

$$60\text{ m} \times 60\text{ m} = 3600\text{ m}^2$$

4 transects with 5 pts each = 20 sample points

$$20\text{ s. pts} / 3600\text{ m}^2 = .00555$$

\therefore area $\times .00555$ = number of sample pts. based on 20 pts
for a 60 x 60 m grid.