

TREND

DATA

FOR

ARAGONITE ALLOTMENT

KEY AREA LOCATION #1

District Salt Lake

Date 4/26/99

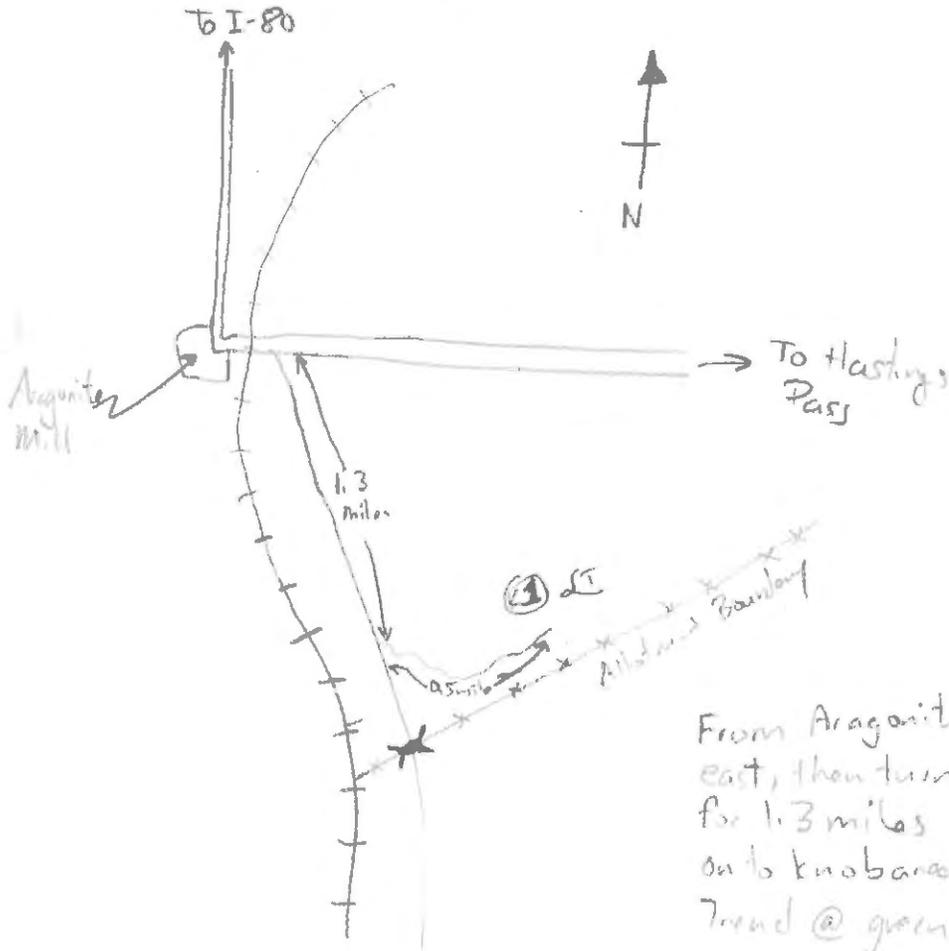
Allotment Aragonite

Aerial Photo # Bonneville SE

Prepared by Kevin Edinger

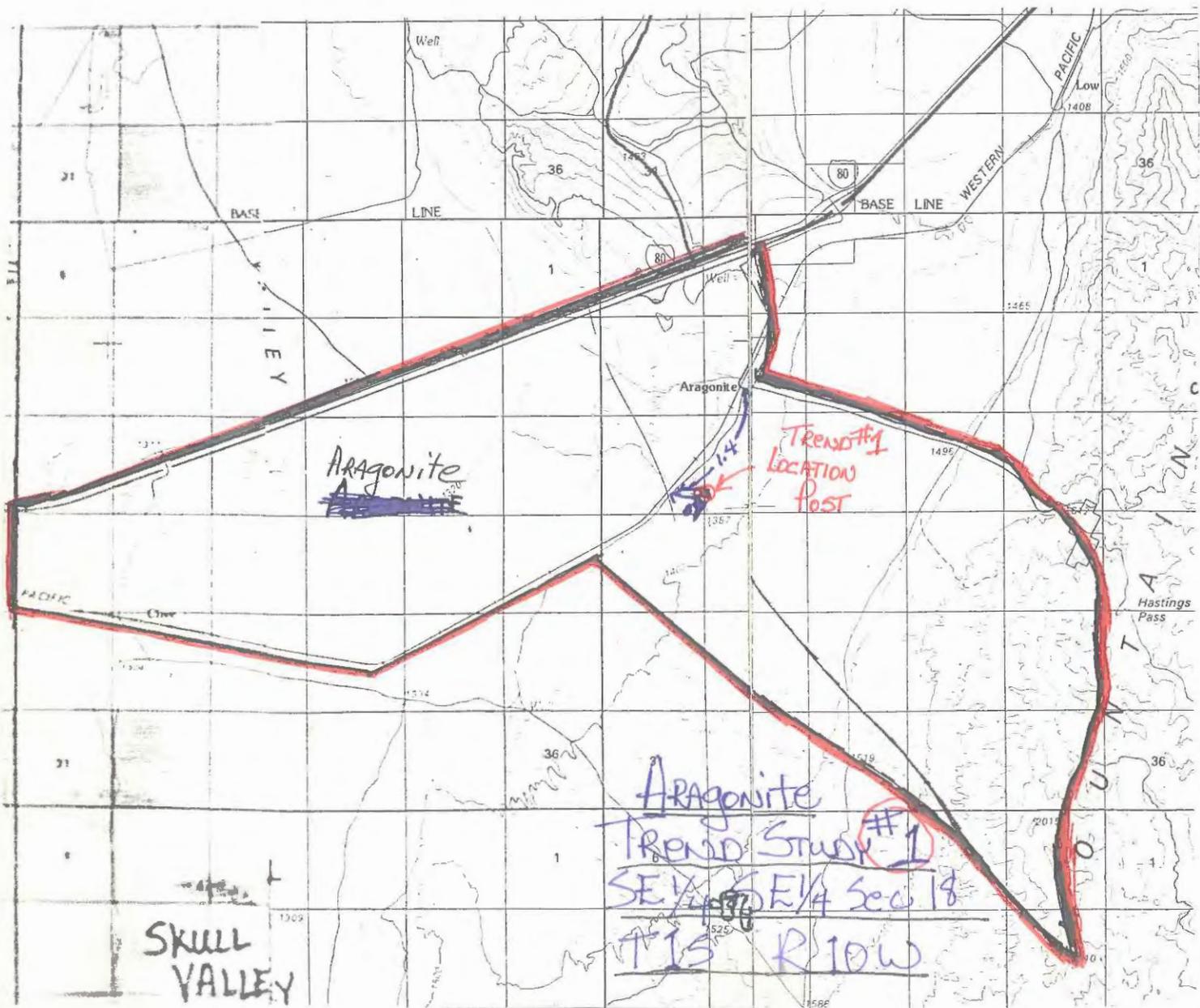
Location Sketch (Scale _____)

show appropriate permanent landmarks (with names and distances) in relation to the study plot.

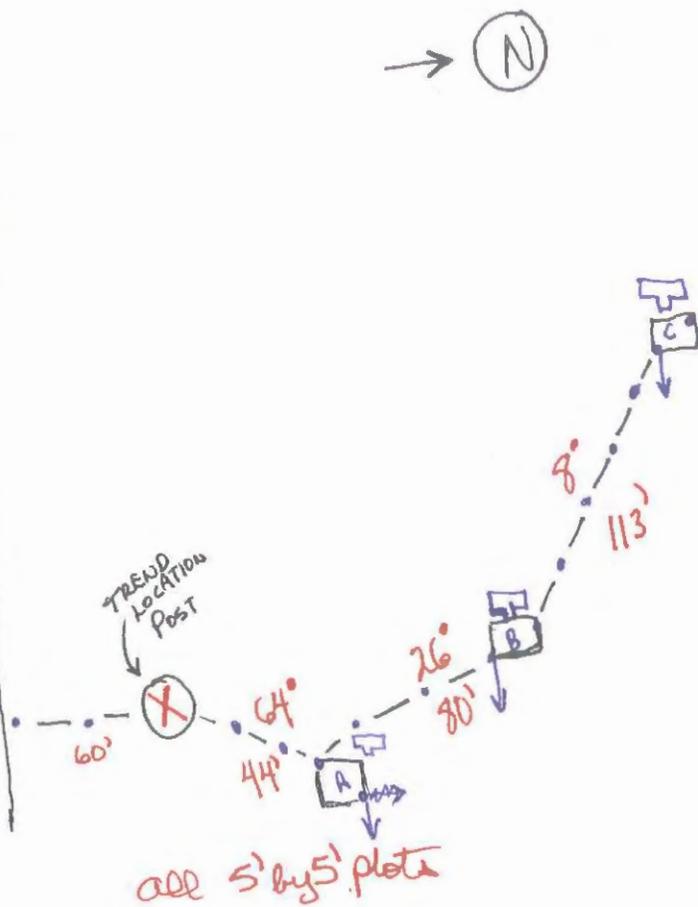


From Aragonite mill, cross RR tracks going east, then turn south and follow road following tracks for 1.3 miles to small road going east onto knob area. Key area 1 is 0.5 miles W/Trend @ green steel post.

Aragonite



1/4 mile to Main Road Then 1.4 miles to Aragonite Site (Railroad crossing)



all 5' by 5' plots

ARAGONITE
TREND STUDY # 1

Date - 7/21/14

Office - SLFO

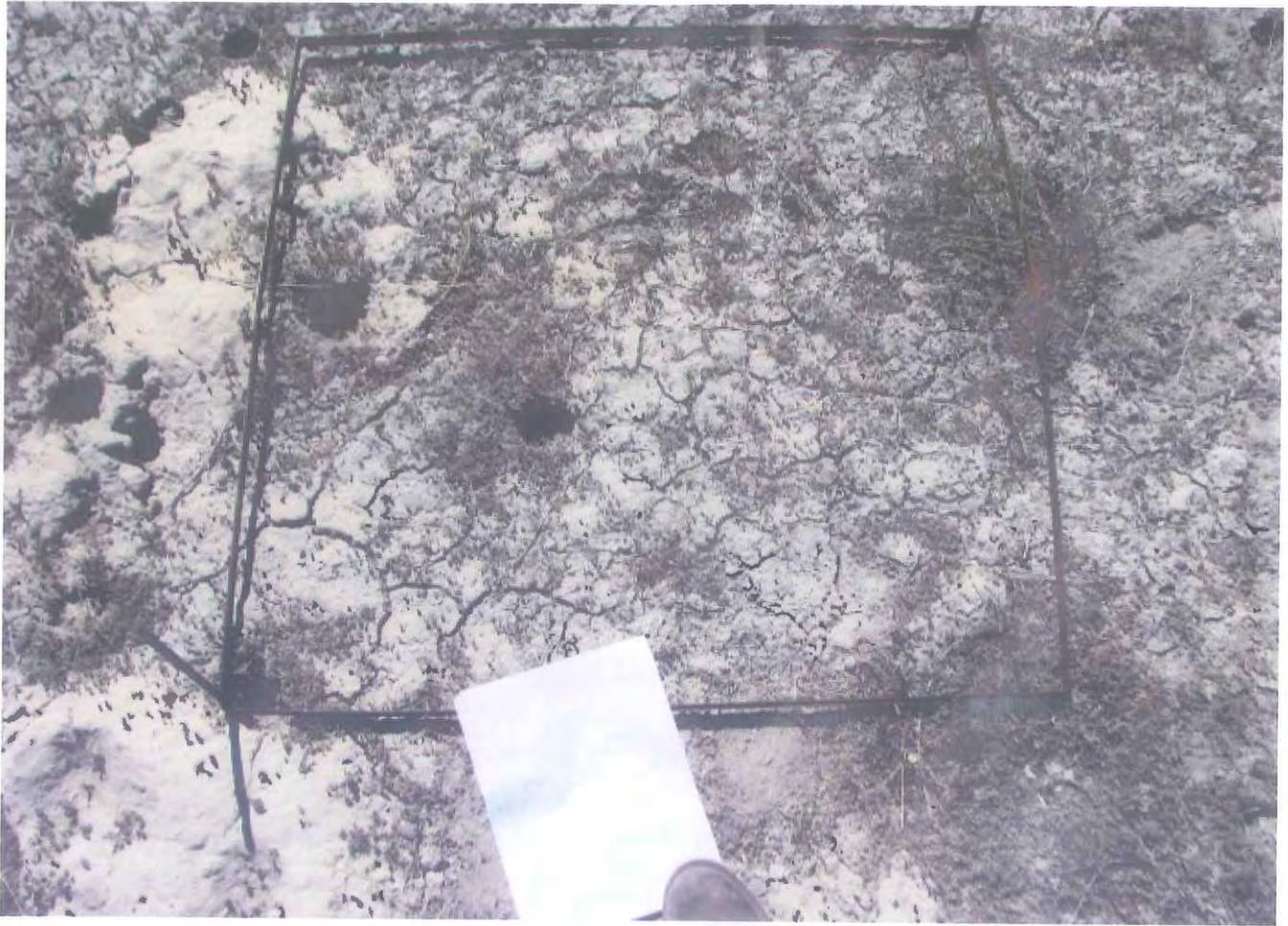
Allotment - Aragonite

Site AT-1

pic 1226-1229



2149412



Soil Cover and % Bare Ground By Transect

Site Class: BLM - Utah || West Desert District || Salt Lake Field Office || Aragonite Allotment

Date: 7/21/2014

Site ID: AT-1

Examiner(s): Hintze, Fitzgerald, Duggan

Cover (Point-Intercept)												
Species	Transect (#Hits)											% Cover*
	1	2	3	4	5	6	7	8	9	10	Total	
Bare Ground	29	30	31	39	29	34	32	22	24	19	289	36.13
Embedded Litter	25	21	11	16	16	36	9	24	8	25	191	23.88
Other Litter		1	1								2	0.25
Woody Litter >5mm					1						1	0.13
Moss				1							1	0.13
Bromus tectorum	10	10	21	9	5	3	16	27	33	22	156	19.50
Halogeton glomeratus	2	1	2		6		6				17	2.13
Kochia	4	3		8	2		1	1	2	1	22	2.75
Lepidium perfoliatum				1							1	0.13
Ranunculus testiculatus	8	9	11		17	1	14	2	9	4	75	9.38
Sisymbrium altissimum				1						1	2	0.25

* Number of decimal places does not imply level of precision

Frequency Summary

Site Class: BLM - Utah || West Desert District || Salt Lake Field Office || Aragonite Allotment

Date: 7/21/2014

Site ID: AT-1

Examiner(s): Hintze, Fitzgerald, Duggan

Quadrat Size: 24x24 in												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Bromus tectorum	15	15	19	20	16	17	20	16	18	17	173	86.50

* Number of decimal places does not imply level of precision

Quadrat Size: 24x12 in												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Bromus tectorum	13	13	19	17	15	14	18	16	18	16	159	79.50

* Number of decimal places does not imply level of precision

Quadrat Size: 12x12 in												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Bromus tectorum	11	10	17	13	9	7	16	14	18	16	131	65.50

* Number of decimal places does not imply level of precision

Quadrat Size: 6x6 in												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Bromus tectorum	10	7	11	8	6	1	9	11	14	12	89	44.50

* Number of decimal places does not imply level of precision

AT-1

8-9-2011

Aragonite

Monitoring plot: AT-1

Observer: Bryan

Date: 8/17/11

Recorder: Von

Page 1 of 1

Veg = NC (no perennial canopy), C (plant canopy cover). # = Stability value (1-6). Circle value if samples are hydrophobic. Rate samples beginning in upper left corner and working left to right.

15 Seconds Between Samples

Line		In	Dip	#	Line		In	Dip	#	Line		In	Dip	#	Line		In	Dip	#	Line		In	Dip	#					
Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time	
1	NC	0:00	5:00	3	2	C	0:15	5:15	6	3	C	0:30	5:30	4	4	NC	0:45	5:45	6	5	C	1:00	6:00	5	6	C	1:15	6:15	6
7	C	1:30	6:30	6	8	C	1:45	6:45	5	9	NC	2:00	7:00	6	10	NC	2:15	7:15	5	11	NC	2:30	7:30	6	12	C	2:45	7:45	4
13	C	3:00	8:00	1	14	C	3:15	8:15	4	15	C	3:30	8:30	5	16	NC	3:45	8:45	3	17	NC	4:00	9:00	5	18	NC	4:15	9:15	5

Notes:

30 Seconds Between Samples

Line		In	Dip	#	Line		In	Dip	#	Line		In	Dip	#	Line		In	Dip	#	Line		In	Dip	#					
Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time		Pos	Veg	time	time	
		0:00	5:00				0:30	5:30				1:00	6:00				1:30	6:30				2:00	7:00				2:30	7:30	
		3:00	8:00				3:30	8:30				4:00	9:00				4:30	9:30				0:00	5:00				0:30	5:30	
		1:00	6:00				1:30	6:30				2:00	7:00				2:30	7:30				3:00	8:00				3:30	8:30	

Notes:

Avg. Stability = Sum of Stability Rankings (i.e., #) / Total No. Samples Taken

Line	All samples		Protected samples (Samples w/ Veg = G, Sh, or T)		Unprotected samples (Samples w/ Veg = NC)	
	Surface	Subsurface	Surface	Subsurface	Surface	Subsurface
Plot Avg.						

Soil Stability Test Data Form





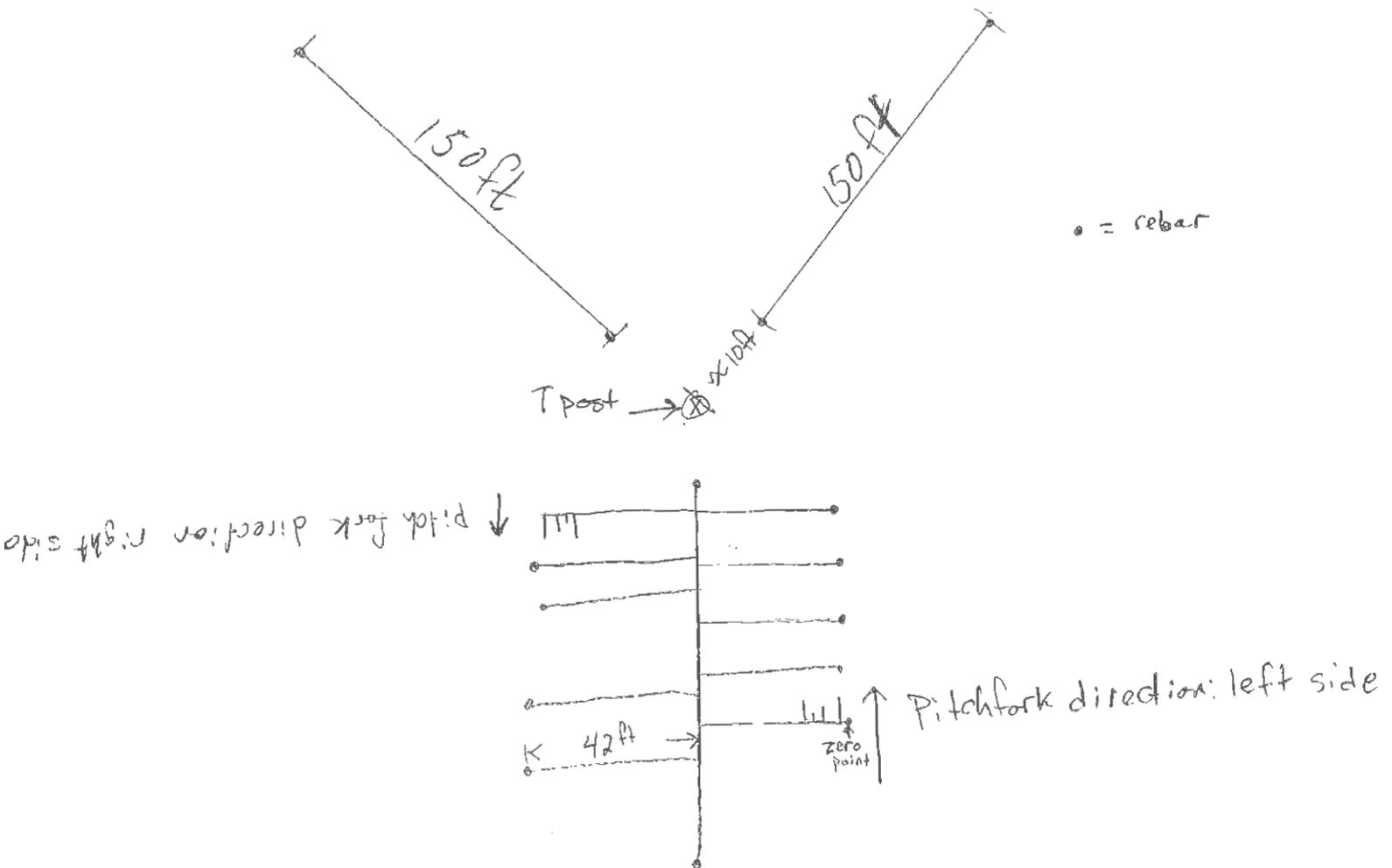
2008

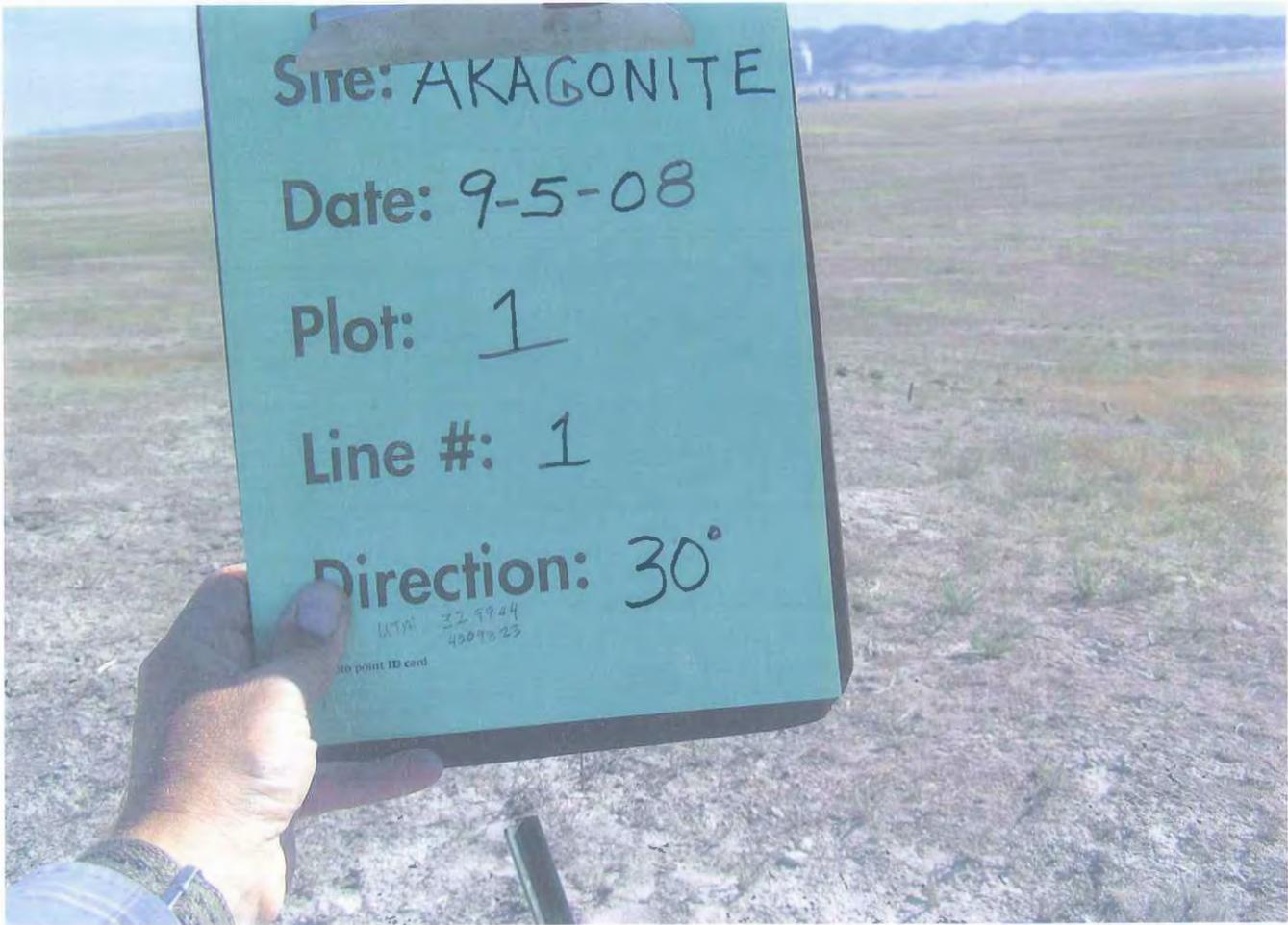
Plot # *1*

All trend transect plots set up in 2008 were established in the following manner:

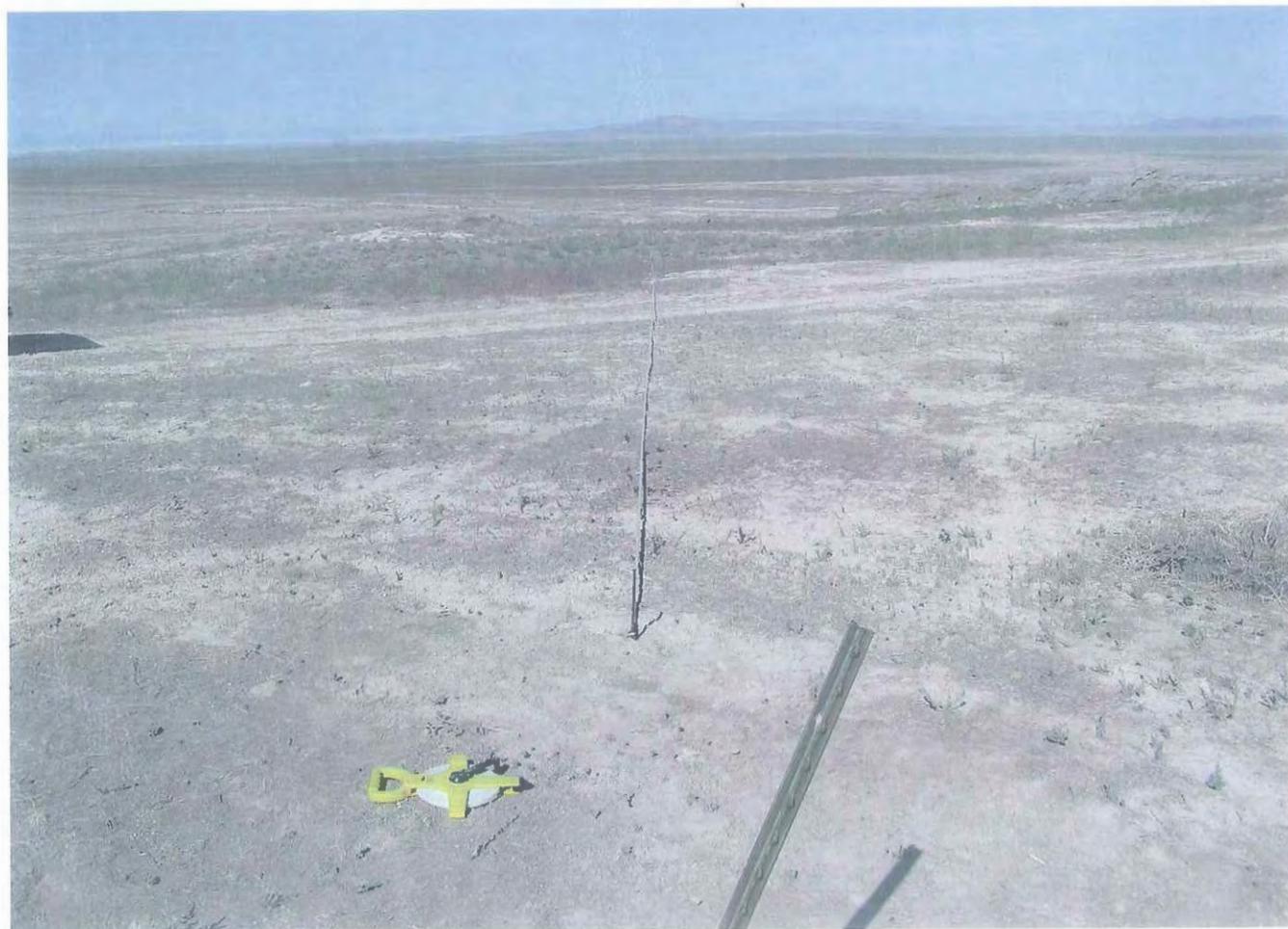
Three transect lines radiated from a green "T" post in a wagon wheel arrangement with 120 degrees between lines. The first line was randomly selected between 10 and 120. Placement of line 2 was done by adding 120 degrees to line 1; 240 degrees added to line 1 located line 3. The transect began approximately 10 feet from the "T" post and were 150 feet in length. The beginning and end points on the line were marked with 3/8 in. rebar. Line point intercept (LPI) data was taken at 36 inch intervals beginning at 3 feet and ending at 150 feet.

One transect line was randomly selected for nested frequency. Lines for frequency data were selected randomly between 1 and 100 feet, and were established at right angles to the main line. Five lines on each side were established. The zero point, marked with rebar, was set 42 feet from the main line. The lines on the right side of the main line were read first, at 2 foot intervals, with 20 placements of the "pitchfork". The pitchfork tines face away from the witness stake when reading on the right side of the LPI line and, conversely, face towards the witness stake when reading the left side lines.









Site: ARAGONITE

Date: 9-5-08

Plot: 1

Line #: ~~1~~ ~~2~~ 3

Direction: ~~130~~

UTM 329944
4509823

Photo point ID card

270°

Line-point Intercept Data Form

entered

Page 1 of 3

Shaded cells for calculations

Plot: Aragonite 1 Line #: 1 Observer: Smith Recorder: Smith

Direction: 30° Date: 9-5-08 Intercept (Point) Spacing Interval = 26 cm (36 in)

Pt.	Top canopy	Lower canopy layers			Soil surface	Pt.	Top canopy	Lower canopy layers			Soil surface
		Code 1	Code 2	Code 3				Code 1	Code 2	Code 3	
1					L	26	Saib				S
2					S	27					L
3					L	28					L
4					L	29					L
5					S	30					L
6					S	31					S
7					S	32					L
8					S	33					S
9					S	34					L
10					L	35					S
11	POSE				L	36					L
12					R	37					S
13					S	38					S
14					S	39					L
15					S	40					S
16					S	41					S
17					S	42					L
18					S	43					L
19					S	44					L
20					S	45	Saib				L
21					S	46					L
22					L	47					S
23					L	48					L
24					L	49					L
25	Saib				BR	50					S

% canopy (foliar) cover = 4 canopy pts (1st col) x 2 = 8 %

% bare ground* = 25 pts (w/NONE over S) x 2 = 50 %

% basal cover = 0 plant base pts (last col) x 2 = 0 %

Top canopy codes: Species code, common name, or NONE (no canopy).

Lower canopy layers codes: Species code, common name, L (herbaceous litter), W (woody litter, >5 mm (~1/4 in) diameter).

Unknown

Species Codes:

AF# = annual forb

PF# = perennial forb

AG# = annual

graminoid

PG# = perennial

graminoid

SH# = shrub

TR# = tree

Soil Surface (do not use litter):

Species Code (for basal intercept)

R = rock fragment (>5 mm

(~1/4 in) diameter)

BR = bedrock, M = moss

LC = visible lichen crust on soil

S = soil without any other soil surface code

EL = embedded litter (see page 10)

D = duff

*Bare ground occurs ONLY when Top canopy = NONE, Lower canopy layers are empty (no L), and Soil surface = S.

Line-point Intercept Data Form

entered

Page 2 of 3

Shaded cells for calculations

Plot: Aragonite 1 Line #: 2 Observer: DC Smith Recorder: DC Smith

Direction: 130° Date: 9-5-08 Intercept (Point) Spacing Interval = cm (36 in)

Pt.	Top canopy	Lower canopy layers			Soil surface	Pt.	Top canopy	Lower canopy layers			Soil surface	
		Code 1	Code 2	Code 3				Code 1	Code 2	Code 3		
1					S	26					L	78
2					S	27					S	
3	Saib				S	28					S	
4					L	29					S	
5	Saib				L	30					S	90
6					L	31	HAGL				S	
7					L	32					L	21
8					S	33					R	
9					S	34					L	102
10					L	35					L	
11					S	36					L	
12					S	37					S	111
13					S	38					S	
14					S	39					L	42
15					S	40					L	
16	Pose				Pose	41					S	
17					S	42					L	51
18					S	43					S	129
19	Pose				S	44					S	132
20	Saib				S	45					S	60
21					L	46					S	
22					M	47					S	141
23					S	48					L	
24					R	49					S	
25	BRTE				L	50					S	

% canopy (foliar) cover = 7 canopy pts (1st col) x 2 = 14 %

% bare ground* = 30 pts (w/NONE over S) x 2 = 60 %

% basal cover = 1 plant base pts (last col) x 2 = 2 %

Top canopy codes: Species code, common name, or NONE (no canopy).

Lower canopy layers codes: Species code, common name, L (herbaceous litter), W (woody litter, >5 mm (~1/4 in) diameter).

Unknown Species Codes:

- AF# = annual forb
- PF# = perennial forb
- AG# = annual graminoid
- PG# = perennial graminoid
- SH# = shrub
- TR# = tree

Soil Surface (do not use litter):

- Species Code (for basal intercept)
- R = rock fragment (>5 mm (~1/4 in) diameter)
- BR = bedrock, M = moss
- LC = visible lichen crust on soil
- S = soil without any other soil surface code
- El = embedded litter (see page 10)
- D = duff

*Bare ground occurs ONLY when Top canopy = NONE, Lower canopy layers are empty (no L), and Soil surface = S.

Line-point Intercept Data Form

entered

Page 3 of 3

Shaded cells for calculations

Plot: Aragonite 1 Line #: 3 Observer: DC Smith Recorder: DC Smith

Direction: 270° Date: 9-5-08 Intercept (Point) Spacing Interval = _____ cm (36 in)

Pt.	Top canopy	Lower canopy layers			Soil surface	Pt.	Top canopy	Lower canopy layers			Soil surface
		Code 1	Code 2	Code 3				Code 1	Code 2	Code 3	
1	Kosc				S	26				S	
2					S	27				S	
3					L	28				S	
4					S	29				L	
5					S	30				L	90
6					S	31				L	
7					L	32				L	
8	Pose				Pose	33				S	
9					S	34				L	102
10					S	35				L	
11	Pose				Pose	36	Kosc			L	
12					L	37	Kosc			Kosc	111
13					S	38				L	
14					S	39				L	
15	POSE				POSE	40				S	
16	Pose				L	41				L	123
17					S	42	Kosc			S	
18					L	43				L	
19					S	44				S	132
20					L	45				L	
21					L	46				L	
22					L	47				L	141
23					S	48				L	
24					S	49	Kosc			Kosc	
25					L	50				L	

% canopy (foliar) cover = 9 canopy pts (1st col) x 2 = 18%

% bare ground* = 20 pts (w/NONE over S) x 2 = 40%

% basal cover = 5 plant base pts (last col) x 2 = 10%

Top canopy codes: Species code, common name, or NONE (no canopy).

Lower canopy layers codes: Species code, common name, L (herbaceous litter), W (woody litter, >5 mm (~1/4 in) diameter).

Unknown Species Codes:

- AF# = annual forb
- PF# = perennial forb
- AG# = annual graminoid
- PG# = perennial graminoid
- SH# = shrub
- TR# = tree

Soil Surface (do not use litter):

- Species Code (for basal intercept)
- R = rock fragment (>5 mm (~1/4 in) diameter)
 - BR = bedrock, M = moss
 - LC = visible lichen crust on soil
 - S = soil without any other soil surface code
 - El = embedded litter (see page 10)
 - D = duff

*Bare ground occurs ONLY when Top canopy = NONE, Lower canopy layers are empty (no L), and Soil surface = S.

Site: ARAGONITE

Date: 9-5-08

Plot: 1 ~~A~~ ~~B~~ C

Line #:

Direction: ~~172°~~



BUREAU OF LAND MANAGEMENT

EXAMINER Duane Smith
 BLM ACQUISITION UNIT (ST/DI/SA/RU) _____
 ALLOTMENT Aragonite
 PASTURE 1
 SITE WRITEUP AREA (SWA) _____
 PLOT NUMBER _____
 DATE (YYYYMM) 08:09:05

TREND STUDY DATA
 VEGETATION CHARACTERIZATION

LOT SIZES:

TREES & SHRUBS 1/100 1/200
 GRASSES & FORBS 9.6 3X3 5X5

Key Species POSE ORHY

Measured in inches

VEGETATION CHARACTERIZATION

VEGETATION CHARACTERIZATION

PLOT NO.	Species	(19)	(20)	(21)	(22)	(23)	(13) PLOT NO.	Species	(19)	(20)	(21)	(22)
		AVE HEIGHT	AVE CROWN DIAM.	AGE CLASS	FURCH CLASS	DOT COUNT			NUMBER CHARGED	AVE HEIGHT	AVE CROWN DIAM.	AGE CLASS
A	SPCR	5.0	7.0	M	1	1						
	POSE	1.0	4.0	D	4	1						
	BRTE	2.1	0.1	D	5	~ 50						
	RATE	0.3	0.3	M		< 50						
	Saib	3.0	4.0	M		114						
B	ORHY	2.3	5	M	4	2						
	Sihy	1.5	1.4	M	1	2						
	Pose	2.5	3.3	M		1						
	BRTE	2.8	0.1	D	5	15						
	Saib	2.5	2.0	M		~ 75						
	Hagl	0.5	0.5	M								
C	Brte	3.5	3	D	5	75						
	Pose	4	1.5	M	1	1						
	Saib	4.5	4.5	M	1	100						
	Kosc	2.3	0.5	Y	5	2						
	saib	0.8	0.5	D	5	50						

1993

READING # 3

PLOT # 1

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SOIL-VEGETATION INVENTORY METHOD

***** SVIM *****
Plot # 1 A B C

Time 10:30 AM

VEGETATION CHARACTERIZATION

RECORD TYPE (1) RANGE TREND
FORMAT CODE (2) D Gary Kidd
BLM ADMIN UNIT (ST/DI/RA/PJ). (3) UTILIZING SILV
ALLOTMENT (4) Aragonite
PASTURE (5)
SITE WRITEUP AREA (SWA) (6)
TRANSECT NUMBER (7)
DATE (YYMMDD) (8) 06/22/93
ACTION CODE (A,D) (9)
SPECIFY

PLOT SIZES

KEY SPP: Orhy Sihy Arno

TREES & SHRUBS (10) 1/100 1/200 Other
GRASSES & FORBS (11) .96 1.92 4.80 9.60 19.20 48.00 OTHER

VEGETATION CHARACTERIZATION

VEGETATION CHARACTERIZATION

(14) PLANT SYMBOL	(19) AVE HEIGHT	(20) AVE CROWN DIAM.	(21) AGE CLASS	(22) FORM CLASS	(23) NUMBER CHANGED	(13) PLOT NO.	(14) PLANT SYMBOL	(19) AVE HEIGHT	(20) AVE CROWN DIAM.	(21) AGE CLASS	(22) FORM CLASS	(23) NUMBER CHANGED
1A Orhy	1.2	.7	M	1	7	1C	orhy	.8	.5	M	3	3
Stco	1.0	.3	M	1	2	Orhy	.4	.2	M	1	1	1
Brte	.4	.1	M	1	sparse	Lepe	.3	.4	M	1	5	5
Saka	.1	.1	Y	1	sparse	Forb			S	1	3	3
Saka	.4	.2	M	1	5	Brte					INTIMID	dense
Hagl	.1	.1	Y	1	sparse	Saka					dense	-
Dese	.3	.1	Y	1	1	Rate (Bans)					dense	-
Forb	.1	.1	Y	1	6							
1A												
1B												
Orhy	1.3	1.0	M	1	2							
Sihy	.4	.3	M	1	3							
Pose	.3	.3	M	1	7							
Chvi	.9	1.2	M	3	1							
Brte	.1	.1	M	1	numbers							
Saka	.1	.1	M	1	"							
Hagl	.1	.1	M	1	"							

REMARKS:

TOTALS:

NO'S

Orhy m 1 = 9
Orhy m 3 = 3
Sihy m 1 = 3
Pose m 1 = 7
Stco m 1 = 2





1990

READING # 2

PLOT # 1

TREND STUDY DATA
VEGETATION CHARACTERIZATION

PLOT SIZES:

Key Species Orhy^{m 7}_{y 2}
Arno_{b 2} Sihy^m_{y 5}

TREES & SHRUBS 1/100 1/200
GRASSES & FORBS 9.6 3X3 5X5

VEGETATION CHARACTERIZATION							VEGETATION CHARACTERIZATION						
(113) PLOT NO.	Species	(119) AVE HEIGHT	(120) AVE CROWN DIAM.	(121) AGE CLASS	(122) FORM CLASS	(123) NUMBER CHAZD	(113) PLOT NO.	Species	(119) AVE HEIGHT	(120) AVE CROWN DIAM.	(121) AGE CLASS	(122) FORM CLASS	(123) NUMBER CHAZD
1A	Orhy	1.0	2	m	1	4		Bite	2	0	m	1	Sparse
1A	Orhy	3	1	y	1	1		Saka	8	7	m	1	
	Orhy	2	2	D	5	1							
	Sihy	2	1	m	1	1							
	Sihy	0	7	D	5	3							
	Posc.	1	1	m	1								
	Nagl	3	2	m	1								
	Saka	2	4	m	1								
1A	Lamb's Quarters	3	1	y	1								
1A	"	1	1	S	1								
1B	Orhy	0	4	D	5	1							
1B	Orhy	2	1	y	1	2							
	Sihy	3	4	m	1	8							
	Elsa	6	5	m	1								
	Elsa	3	3	y	1								
	Posc.	4	1	m	1								
	Bite	2	0	m	1	Sparse							
1B	Chui	6	5	y	1								
1C	Orhy	1.6	4	m	1	3							
		3	2	m	3	1							
	Sihy	3	3	m	1	2							
	Sihy	0	2	D	5	2							

Use other side or another page



DATE 3-28-90
R.A. Pory X
ALLOT. Arroyo
PAST
PLOT NO. 1A



DATE 4-28-90
R.A. Pory X
ALLOT. Arroyo
PAST



DATE 4-28-90
R.A. Pong X
ALLOT. Acroponte
PAST.
PLOT NO. 1 B



DATE 4-28-90
R.A. Pong X
ALLOT. Acroponte
PAST.
PLOT NO. 1 C

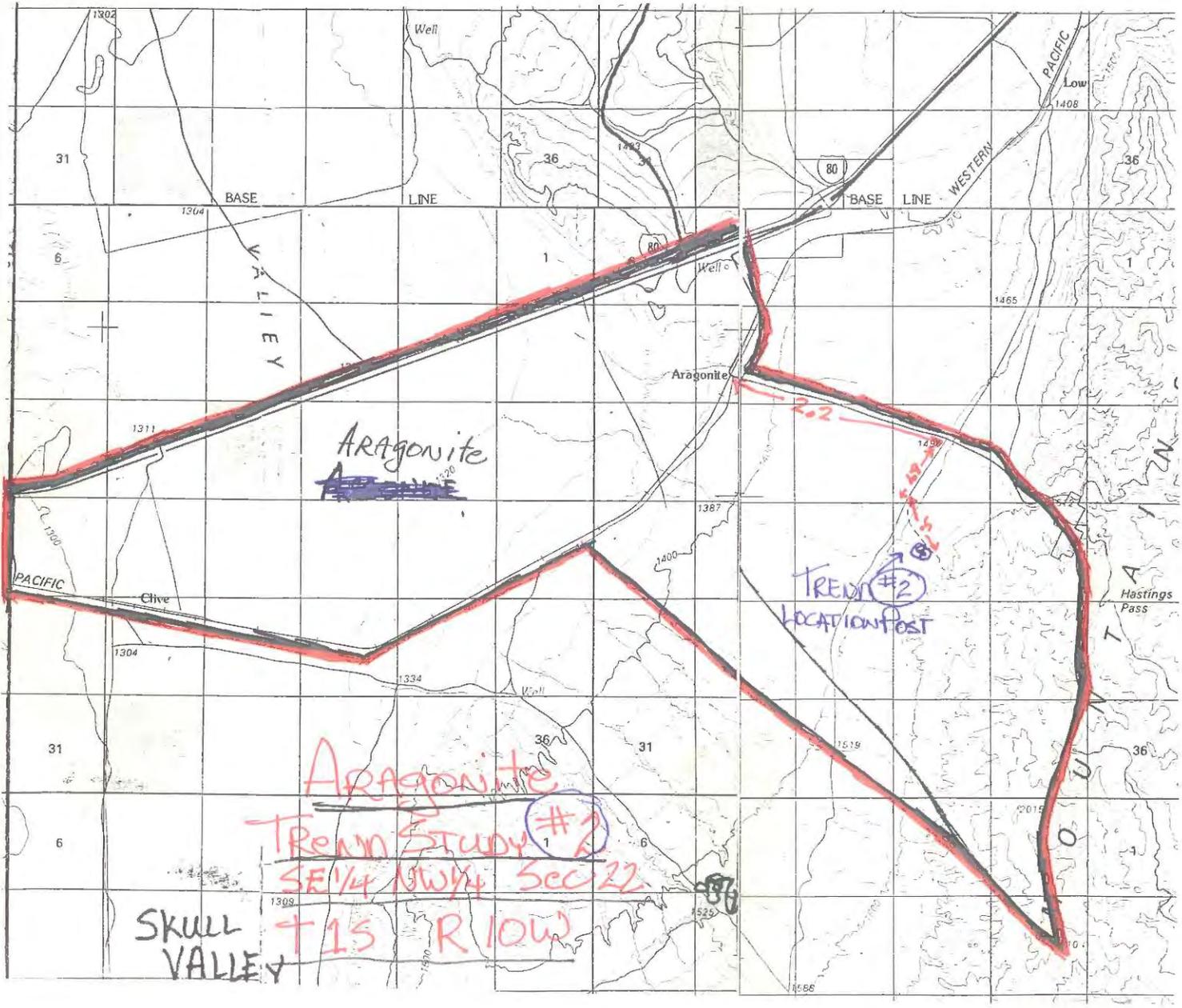
1985

READING # 1

PLOT # 1







SKULL VALLEY

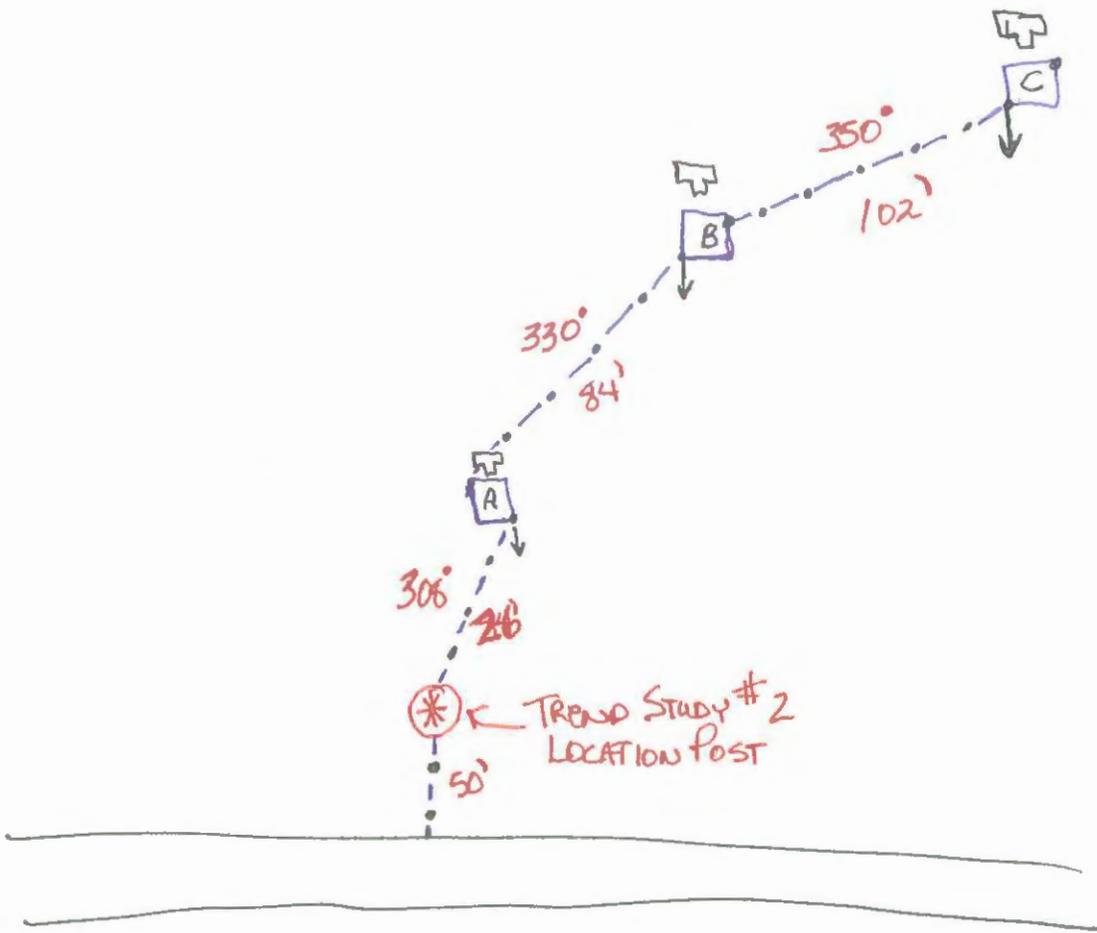
ARAGONITE
TREND STUDY #2
SE 1/4 NW 1/4 Sec 22

T 15 R 10W

TREND #2
LOCATION POST

ARAGONITE

2.2



ARAGONITE
 TREND STUDY #2
 SE 1/4 NW 1/4 Sec. 28
 T15 R0W

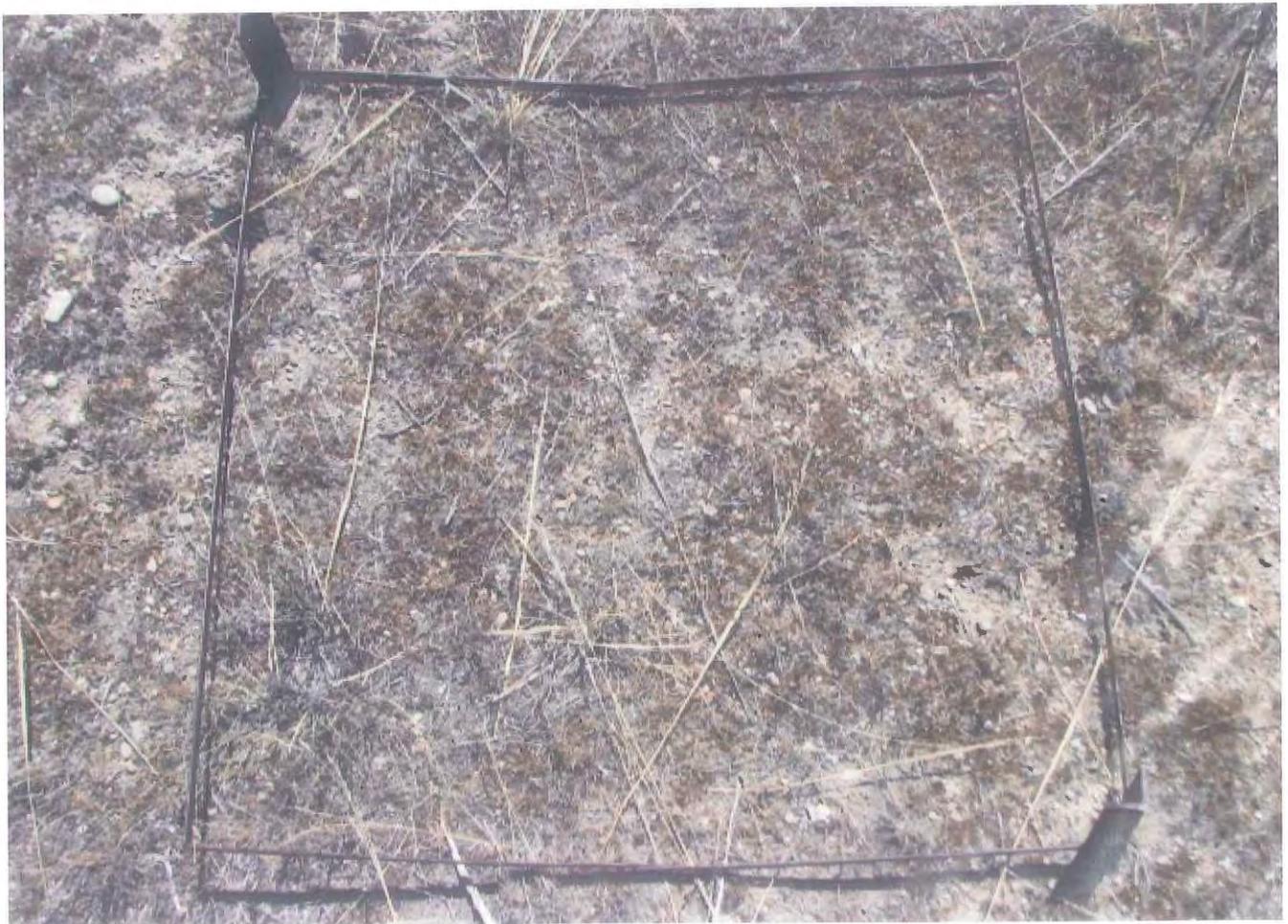
Date 7/21/14

Office - SLFO

Allotment - Aragonite

Site - AT-2

pres ~~1230~~ 1230-
1234





Soil Cover and % Bare Ground By Transect

Site Class: BLM - Utah || West Desert District || Salt Lake Field Office || Aragonite Allotment

Date: 7/21/2014

Site ID: AT-2

Examiner(s): Hintze, Fitzgerald,
Duggan

Cover (Point-Intercept)												
Species	Transect (#Hits)											% Cover*
	1	2	3	4	5	6	7	8	9	10	Total	
Bare Ground	6	16	6	15	8	15	8	21	10	13	118	14.75
Embedded Litter	18	18	13	35	13	29		11	25	29	191	23.88
Other Litter							14				14	1.75
Woody Litter >5mm				1							1	0.13
Moss						1					1	0.13
Bedrock									1	1	2	0.25
Rock >5mm	3	1	5	1	1		2	2			15	1.88
Agropyron spicatum					2	2		3			7	0.88
Bromus tectorum	25	5	29	3	15	7	33	12	21	8	158	19.75
Chrysothamnus viscidiflorus					4						4	0.50
Erodium				7	2			1	15	14	39	4.88
Erodium - dead	3	19	4	2			15				43	5.38
Gutierrezia sarothrae	6		5		8	7		9			35	4.38
Hesperostipa comata	11	6	7	4	6	1		6	1		42	5.25
Oryzopsis hymenoides					1	2					3	0.38
Poa		1	1								2	0.25
Poa secunda	5	4	7		11	9	7	9	6	3	61	7.63

* Number of decimal places does not imply level of precision

Frequency Summary

Site Class: BLM - Utah || West Desert District || Salt Lake Field Office || Aragonite Allotment

Date: 7/21/2014

Site ID: AT-2

Examiner(s): Hintze, Fitzgerald, Duggan

Quadrat Size: 24x24 in.												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Agropyron spicatum					2			5			7	3.50
Hesperostipa comata	15	8	14	7	14	10	6	12	2	3	91	45.50
Oryzopsis hymenoides			1		5	4		5	1		16	8.00
Poa		2									2	1.00
Poa secunda	9	9	7	10	14	18	14	19	11	9	120	60.00

* Number of decimal places does not imply level of precision

Quadrat Size: 24x12 in												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Agropyron spicatum					2			4			6	3.00
Hesperostipa comata	12	6	13	4	9	5	4	5	1	2	61	30.50
Oryzopsis hymenoides					3	1		3			7	3.50
Poa		2									2	1.00
Poa secunda	8	7	5	5	12	14	9	19	9	6	94	47.00

* Number of decimal places does not imply level of precision

Quadrat Size: 12x12 in.												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Agropyron spicatum					1						1	0.50
Hesperostipa comata	7	3	8	2	6	4	3	1		2	36	18.00
Oryzopsis hymenoides					1			1			2	1.00
Poa		1									1	0.50
Poa secunda	6	6	2	2	9	12	5	18	6	6	72	36.00

* Number of decimal places does not imply level of precision

Quadrat Size: 6x6 in												Total Quadrats = 200
Species	Transect (#Hits)											% Freq.*
	1	2	3	4	5	6	7	8	9	10	Total	
Hesperostipa comata	4		3	1	2	1	2			1	14	7.00
Oryzopsis hymenoides					1						1	0.50

Soil Cover and % Bare Ground By Transect

Site Class: BLM - Utah || West Desert District || Salt Lake Field Office || Aragonite Allotment

Date: 7/21/2014

Site ID: AT-2

Examiner(s): Hintze, Fitzgerald,
Duggan

Cover (Point-Intercept)												
Species	Transect (#Hits)											% Cover*
	1	2	3	4	5	6	7	8	9	10	Total	
Bare Ground	6	16	6	15	8	15	8	21	10	13	118	14.75
Embedded Litter	18	18	13	35	13	29		11	25	29	191	23.88
Other Litter							14				14	1.75
Woody Litter >5mm				1							1	0.13
Moss						1					1	0.13
Bedrock									1	1	2	0.25
Rock >5mm	3	1	5	1	1		2	2			15	1.88
Agropyron spicatum					2	2		3			7	0.88
Bromus tectorum	25	5	29	3	15	7	33	12	21	8	158	19.75
Chrysothamnus viscidiflorus					4						4	0.50
Erodium				7	2			1	15	14	39	4.88
Erodium - dead	3	19	4	2			15				43	5.38
Gutierrezia sarothrae	6		5		8	7		9			35	4.38
Hesperostipa comata	11	6	7	4	6	1		6	1		42	5.25
Oryzopsis hymenoides					1	2					3	0.38
Poa		1	1								2	0.25
Poa secunda	5	4	7		11	9	7	9	6	3	61	7.63

* Number of decimal places does not imply level of precision

2011

Plot #2

N 4508645

N 333429

(NAD 83)

DATE 8/18/2011

DIST SLFO

ALLOT ARAGONITE

PASTURE _____

PLOT NO. AT-2

N 4508645
E 333429 NAD83

GPS Point

N 4508645
E 333429
AT-2

1530 mean sea level

Monitoring plot: AT-2

Observer: Alex Bryan
Recorder: Baron Von Niederhausen

Date: 8/18/2011
Page of

Veg = NC (no perennial canopy), C (plant canopy cover). # = Stability value (1-6). Circle value if samples are hydrophobic. Rate samples beginning in upper left corner and working left to right.

15 Seconds Between Samples

Line	In	Dip	#	Line	In	Dip	#	Line	In	Dip	#	Line	In	Dip	#	Line	In	Dip	#	Line	In	Dip	#
Pos	Veg	time	time	Pos	Veg	time	time	Pos	Veg	time	time	Pos	Veg	time	time	Pos	Veg	time	time	Pos	Veg	time	time
1	NC	0:00	5:00	1	2	C	0:15	5:15	1	3	C	0:30	5:30	1	4	C	0:45	5:45	5	5	C	1:00	6:00
7	C	1:30	6:30	5	8	NC	1:45	6:45	3	9	NC	2:00	7:00	5	10	C	2:15	7:15	5	11	NC	2:30	7:30
13	C	3:00	8:00	5	14	NC	3:15	8:15	4	15	C	3:30	8:30	3	16	C	3:45	8:45	3	17	NC	4:00	9:00

Notes: _____

30 Seconds Between Samples

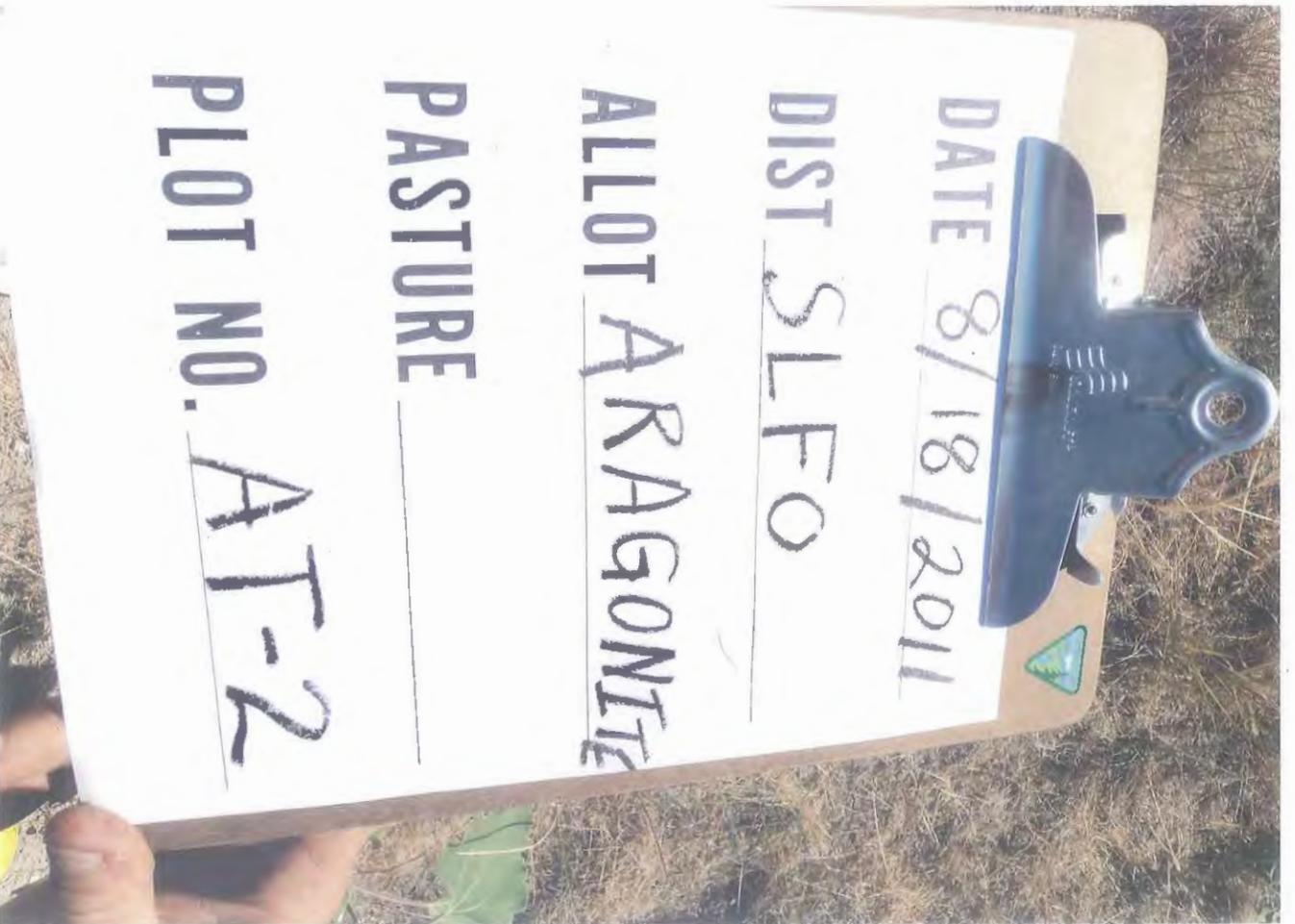
Line	In	Dip	#																				
Pos	Veg	time	time																				
		0:00	5:00			0:30	5:30			1:00	6:00			1:30	6:30			2:00	7:00			2:30	7:30
		3:00	8:00			3:30	8:30			4:00	9:00			4:30	9:30			0:00	5:00			0:30	5:30
		1:00	6:00			1:30	6:30			2:00	7:00			2:30	7:30			3:00	8:00			3:30	8:30

Notes: _____

Avg. Stability = Sum of Stability Rankings (i.e., #) / Total No. Samples Taken

Line	All samples		Protected samples (Samples w/Veg = G, Sh, or T)		Unprotected samples (Samples w/ Veg = NC)	
	Surface	Subsurface	Surface	Subsurface	Surface	Subsurface
Plot Avg.						

Soil Stability Test Data Form











2008

Plot # 2

Aragonite Line-point Intercept Data Form

Entered

Page 1 of 3

Shaded cells for calculations

Plot: AR-2 Line #: 1 Observer: Smith Recorder: christofferson

Direction: 10° Date: 9/8/08 Intercept (Point) Spacing Interval = cm (36 in)

Pt.	Top canopy	Lower canopy layers			Soil surface	Pt.	Top canopy	Lower canopy layers			Soil surface	
		Code 1	Code 2	Code 3				Code 1	Code 2	Code 3		
3					D	26					D	18
6					S	27					D	81
9					R	28	SPCR				D	84
12					D	29					R	89
15	URHY				D	30					D	90
18	GRCT				S	31					S	93
21					D	32					R	96
24					S	33					D	99
27					D	34					S	102
30					D	35	SPCR				D	105
33					D	36					R	108
36					D	37	BRTE				D	111
39					S	38					S	114
42					D	39					S	117
45					D	40	POSE				POSE	120
48					D	41					S	123
51					D	42					D	126
54					D	43					S	129
57					S	44					S	132
60					R	45					D	135
63					S	46					R	138
66					R	47	DRHY				M	141
69					R	48					M	144
72					D	49					S	147
75					D	50					S	150

% canopy (foliar) cover = canopy pts (1st col) x 2 = %

% bare ground* = pts (w/NONE over S) x 2 = %

% basal cover = plant base pts (last col) x 2 = %

Top canopy codes: Species code, common name, or NONE (no canopy).

Lower canopy layers codes: Species code, common name, L (herbaceous litter), W (woody litter, >5 mm (~1/4 in) diameter).

Unknown Species Codes:

- AF# = annual forb
- PF# = perennial forb
- AG# = annual graminoid
- PG# = perennial graminoid
- SH# = shrub
- TR# = tree

Soil Surface (do not use litter):

- Species Code (for basal intercept)
- R = rock fragment (>5 mm (~1/4 in) diameter)
 - BR = bedrock, M = mass
 - LC = visible lichen crust on soil
 - S = soil without any other soil surface code
 - EL = embedded litter (see page 10)
 - D = duff

*Bare ground occurs ONLY when Top canopy = NONE, Lower canopy layers are empty (no L), and Soil surface = S.

Line-point Intercept Data Form

Page 2 of 3

Shaded cells for calculations

Plot: AR-2 Line #: 2 Observer: Smith Recorder: christofferson

Direction: 130° Date: 9/8/08 Intercept (Point) Spacing Interval = cm (36 in)

Pt.	Top canopy	Lower canopy layers			Soil surface	Pt.	Top canopy	Lower canopy layers			Soil surface	
		Code 1	Code 2	Code 3				Code 1	Code 2	Code 3		
3	1				D	26				D	78	
6	2				D	27				D	81	
9	3				S	28	BRTZ			D	84	
12	4				S	29				D	87	
15	5				S	30				D	90	
18	6				D	31				D	93	
21	7				S	32				S	96	
24	8				D	33				S	99	
27	9				S	34				D	102	
30	10				D	35				D	105	
33	11				S	36				S	108	
36	12				D	37				D	111	
39	13	BRTZ	ERSI		D	38				S	114	
42	14	STCO			S	39				S	117	
45	15				D	40				R	120	
48	16				D	41				BR	123	
51	17				S	42				S	126	
54	18				D	43				S	129	
57	19	SAIB			D	44				S	132	
60	20				S	45	ERSI			S	135	
63	21				S	46				D	138	
66	22				S	47				D	141	
69	23				D	48				S	144	
72	24	SAIB			S	49				D	147	
75	25				S	50				S	150	

% canopy (foliar) cover = canopy pts (1st col) x 2 = %
 % bare ground* = pts (w/NONE over S) x 2 = %
 % basal cover = plant base pts (last col) x 2 = %

Top canopy codes: Species code, common name, or NONE (no canopy).

Lower canopy layers codes: Species code, common name, L (herbaceous litter), W (woody litter, >5 mm (~1/4 in) diameter).

Unknown Species Codes:
 AF# = annual forb
 PF# = perennial forb
 AG# = annual graminoid
 PG# = perennial graminoid
 SH# = shrub
 TR# = tree

Soil Surface (do not use litter):
 Species Code (for basal intercept)
 R = rock fragment (>5 mm (~1/4 in) diameter)
 BR = bedrock, M = moss
 LC = visible lichen crust on soil
 S = soil without any other soil surface code
 EL = embedded litter (see page 10)
 D = duff

*Bare ground occurs ONLY when Top canopy = NONE, Lower canopy layers are empty (no L), and Soil surface = S.

Line-point Intercept Data Form

Entered

Page 3 of 3

Shaded cells for calculations

Plot: AR-2 Line #: 3 Observer: Smith Recorder: Christa PetersonDirection: 250° Date: 9/8/08 Intercept (Point) Spacing Interval = cm (36 in)

Pt.	Top canopy	Lower canopy layers			Soil surface	Pt.	Top canopy	Lower canopy layers			Soil surface	
		Code 1	Code 2	Code 3				Code 1	Code 2	Code 3		
3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75	1				D	26					D	78
	2				D	27					S	81
	3				S	28					S	84
	4				D	29					S	87
	5				D	30	STCO				S	90
	6				D	31					S	93
	7				S	32					R	96
	8				S	33					S	99
	9				D	34					S	102
	10				D	35	POSE				POSE	105
	11				D	36	BRTG				S	108
	12				S	37					S	111
	13				D	38					S	114
	14				D	39					D	117
	15				D	40					D	120
	16				D	41					S	123
	17				D	42					D	126
	18				D	43					S	129
	19	SPCR			D	44					D	132
	20	BRTG			BRTG	45					S	135
	21				D	46	ORHY				ORHY	138
	22	SPCR			D	47					D	141
	23	SATB			D	48					S	144
	24				D	49					D	147
	25				S	50					S	150

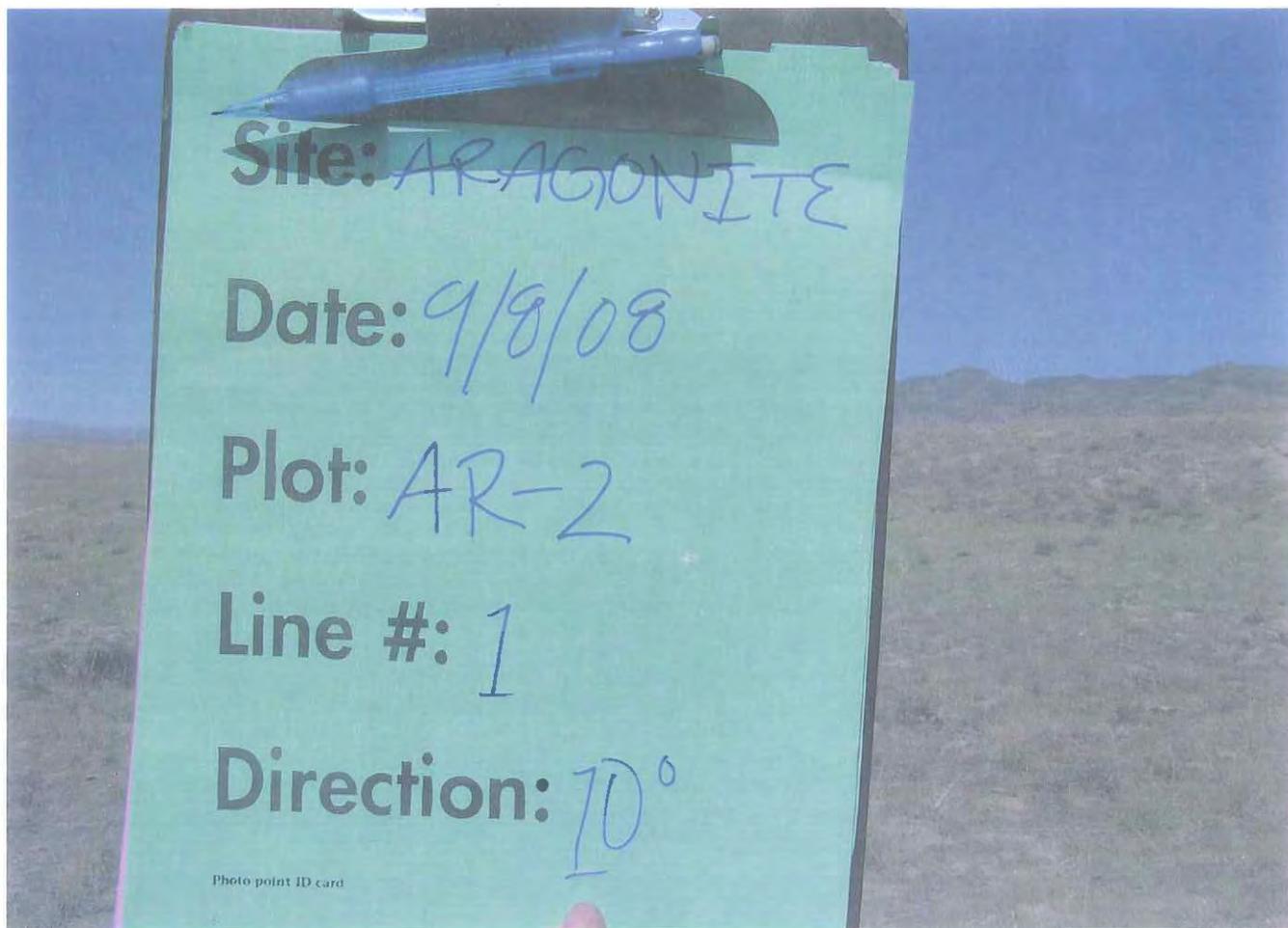
% canopy (foliar) cover = canopy pts (1st col) x 2 = %% bare ground* = pts (w/NONE over S) x 2 = %% basal cover = plant base pts (last col) x 2 = %**Top canopy codes:** Species code, common name, or NONE (no canopy).**Lower canopy layers codes:** Species code, common name, L (herbaceous litter), W (woody litter, >5 mm (~1/4 in) diameter).**Unknown Species Codes:**

AF# = annual forb
 PF# = perennial forb
 AG# = annual graminoid
 PG# = perennial graminoid
 SH# = shrub
 TR# = tree

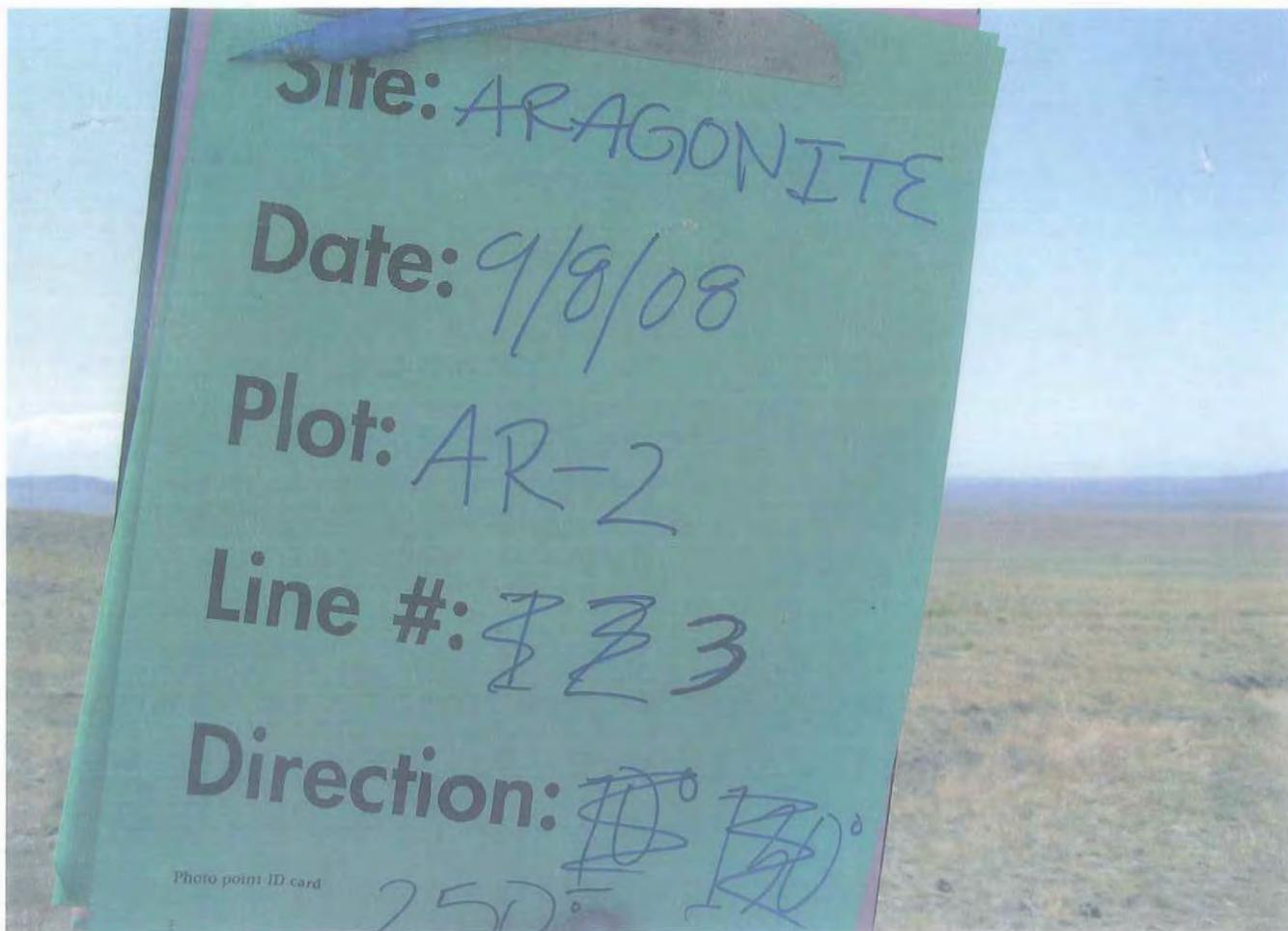
Soil Surface (do not use litter):

Species Code (for basal intercept)
 R = rock fragment (>5 mm (~1/4 in) diameter)
 BR = bedrock, M = moss
 LC = visible lichen crust on soil
 S = soil without any other soil surface code
 EL = embedded litter (see page 10)
 D = duff

*Bare ground occurs ONLY when Top canopy = NONE, Lower canopy layers are empty (no L), and Soil surface = S.





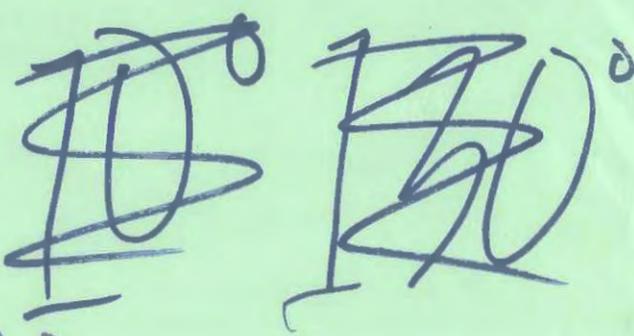


Site: ARAGONITE

Date: 9/8/08

Plot: AR-2

Line #: 1 2 3

Direction: 
250°

1993

READING # 3

PLOT # 2

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SOIL-VEGETATION INVENTORY METHOD

***** SVIM *****

Plot #2 A, B, C

Gary Kidd 1:20 pm

VEGETATION CHARACTERIZATION

RECORD TYPE (1) RANGE TREND
FORMAT CODE (2) D
BLM ADMIN UNIT (ST/DI/RA/PJ) . (3) INT:SLD:O:O:ZC
ALLOTMENT (4) Aragonite
PASTURE (5) | | |
SITE WRITEUP AREA (SWA) . . . (6) | | | | |
TRANSECT NUMBER (7) | | | Plot 2 ABC
DATE (YYMMDD) (8) | | | | | | |
ACTION CODE (A,D) (9) | |

PLOT SIZES:

TREES & SHRUBS (10) 1/100 1/200 Other Evil
GRASSES & FORBS (11) .96 1.92 4.80 9.60 19.20 48.00 OTHER SKS
Specify

KEY SPP: Orhy Sily Arno

VEGETATION CHARACTERIZATION

VEGETATION CHARACTERIZATION

2A
↑
↓
2A

(14) PLANT SYMBOL	(19) AVE HEIGHT	(20) AVE CROWN DIAM.	(21) AGE CLASS	(22) FORM CLASS	(23) DOT COUNT	(13) PLOT NO.	(14) PLANT SYMBOL	(19) AVE HEIGHT	(20) AVE CROWN DIAM.	(21) AGE CLASS	(22) FORM CLASS	(23) DOT COUNT
Agsp	1.5	.6	m	1	<input type="checkbox"/>	10	2B stco	2.0	.6	m	1	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> 25
Agsp	.5	.3	y	1	<input type="checkbox"/>	5	1 stco	.6	.3	y	1	<input type="checkbox"/> 4
stco	1.6	.4	m	1	<input type="checkbox"/>	2	1 orhy	1.5	.4	m	1	<input type="checkbox"/> 2
Orhy	1.6	1.0	m	1	<input type="checkbox"/>	2	1 orhy	.2	.1	y	1	<input type="checkbox"/> 1
stco	.4	.3	y	1	<input type="checkbox"/>	1	1 Agsp	.3	.1	y	1	<input type="checkbox"/> 2
Pose	.2	.2	m	1	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	50	1 Pose	.1	.1	m	1	<input type="checkbox"/> 20
Sego Lily	.3	.2	y	1	<input type="checkbox"/>	1	1 Artr	1.0	1.2	m	1	<input type="checkbox"/> 1
Brite	.1	.1	m	1	Sparse		1 Chui	2.5	3.0	m	1	<input type="checkbox"/> 4
Gusa	.8	.4	m	1	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	23	1 Gusa	.7	.5	m	3	<input checked="" type="checkbox"/> 9
Gusa	.5	.3	D	5	<input checked="" type="checkbox"/>	9	2B					
Gusa	.6	.3	y	1	<input checked="" type="checkbox"/>	12	2C stco	2.5	1.3	m	1	<input type="checkbox"/> 7
Artr	2.2	2.0	m	1	<input type="checkbox"/>	1	1 Agsp	1.0	.6	m	1	<input type="checkbox"/> 4
Artr	.5		m	y	<input type="checkbox"/>	2	1 Agsp	.4	.2	y	1	<input type="checkbox"/> 2
Artr	1.8	1.0	m	3	<input type="checkbox"/>	1	1 Orhy	1.1	1.0	m	1	<input type="checkbox"/> 1
tegl	2.0	2.2	m	3	<input type="checkbox"/>	4	1 Spcr	.1	.1	y	1	<input type="checkbox"/> 8
tegl	2.0	3.5	m	1	<input type="checkbox"/>	1	1 Spcr	.1	.1	s	1	<input checked="" type="checkbox"/> 9
Ephedra	.7	.5	y	1	<input type="checkbox"/>	2	1 Saka					Sparse
							2C Brite	.1	.1	s		Sparse
							2C Ercl	.1	.1	s		5

REMARKS:

2A was missing and had to be re-established as close to the original plot as possible.

TOTALS

Agsp	m	14	Orhy	m	5
Agsp	y	12	Orhy	y	1





1990

READING # 2

PLOT # 2

EXAMINER: Gary Kidd
 BLM ADMIN UNIT (STATE/FED): BLM/SL/DIO
 ALLOTMENT: Aragonite
 PASTURE: _____
 SITE WRITEUP AREA (SHA): 1-1-1
 Plot NUMBER: 2 A, B, C
 DATE (YYMMDD): 10/9/2010

TREND STUDY DATA

VEGETATION CHARACTERIZATION

PLOT SIZES:

TREES & SHRUBS: 1/100 1/200
 GRASSES & FORBS: 9.6 3X3 5X5

Key Species: Arno Sihy
Orhy 10 mature, 34 young, 5 seeding, 1 dead

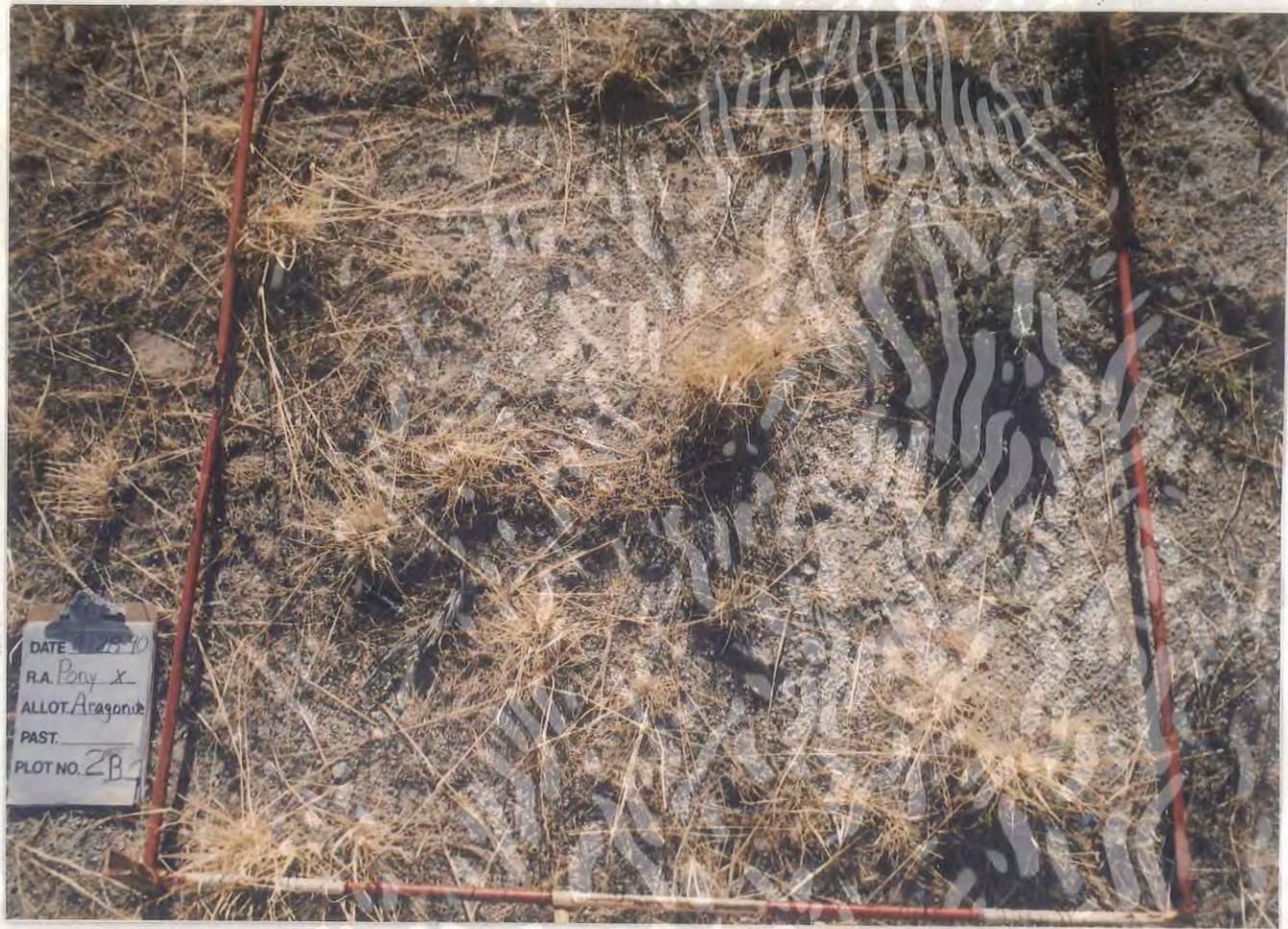
VEGETATION CHARACTERIZATION							VEGETATION CHARACTERIZATION						
(113) PLOT NO.	Species	(119) AVE HEIGHT	(120) AVE CROWN DIAM.	(121) AGE CLASS	(122) FORM CLASS	(123) NUMBER CHAZD	(113) PLOT NO.	Species	(119) AVE HEIGHT	(120) AVE CROWN DIAM.	(121) AGE CLASS	(122) FORM CLASS	(123) NUMBER CHAZD
2A	NgSp	1.2	4	m	L	35	2C	Orhy	1.2	3	m	L	2
	NgSp	2	1	S	L	7		Orhy	1.2	1	y	L	3
	StCo	4	3	m	L	12		Orhy	2	2	D	S	1
	StCo	2	1	S	L	5		Orhy	1	1	S	L	1
	Orhy	1.2	3	m	L	3		Orhy	1.2	4	m	S	3
	PosE	1	1	m	L	7		PosE	1	1	m	L	32
	Brte	1	0	m	L	10		Brte	2	1	m	L	Spars
	Gusa			m	L	4		Gusa			m	L	4
	Gusa			y	L	4		Gusa			S	L	1
	Gusa			D	S	5		Gusa			y	L	4
2A	Artr			D	S	3		Gusa			D	S	7
2B	StCo	1	2	S	L	7		Chwi			m	S	1
2B	StCo	1.0	3	m	L	15		Chwi			m	L	1
	StCo	4	2	y	L	7		Artr			D	S	6
	Orhy	1.4	5	m	L	2		Artr			m	S	3
	Orhy	1	1	S	L	4							
	PosE	1	1	m	L	50							
	Brte	2	1	m	L	Spars							
	StCo	2	1	D	S	1							
	Gusa	1.6	8	m	L	4							
	"	4	6	D	S	2							
	Chwi	1.0	8	m	L	3							
	Artr	9	6	y	L	1							
	Artr	5	8	D	S	2							



DATE 9-28-90
R.A. Boyer
ALLOT Aragonia
PAST
PLOT NO 2A



9-28-90
Boyer
Aragonia
NO 2A



DATE 5-25-70
R.A. Pony x
ALLOT. Aragonite
PAST.
PLOT NO. 2B



DATE 9-28-70
R.A. Pony x
ALLOT. Aragonite
PAST.
PLOT NO. 2C

1985

READING # 1

PLOT # 2



