

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

District SALT LAKE  
Date 8/12/69  
Examiner CARPENTER, PERKINS

RANGE TREND PLOT DATA

51 Steps E 50 yds from Red Post

Allotment <u>Diamond 71'</u>	Pasture <u>North</u>	Key Species <u>EUSA</u>	Elevation
Grazing System <u>DEFERRED ROTATION</u>	PLOT Number <u>7</u> Size <u>5x5'</u>		Slope
Treatment	Vegetative Type <u>SAGEBRUSH-GRASS</u>	<u>EUSA</u>	Exposure <u>EAST</u>

LIST BY SPECIES (a)	NUMBER		1/16 SQ. FT. UNITS (estimate) (d)	TOTAL SQ. IN. (measure- ment) (e)	PERCENT		SIZE OF INDIVIDUAL PLANTS (A = TT ab) (h)
	MATURE PLANTS (b)	SEED- LINGS (c)			COVER (f)	COMPO- SITION (g)	
Grasses (Basal Cover)							
<u>EUSA Salina Ryegrass</u>	<u>11</u>		<u>11</u>		<u>2.75</u>	<u>33.8</u>	<u>1 1/2 - 2 - 1 - 2 1/2 - 4</u>
<u>Pose Sandberg</u>	<u>10</u>		<u>3 1/2</u>		<u>.875</u>	<u>10.9</u>	<u>1/2 - 2 - 2 - 1 -</u>
TOTAL			<u>14.5</u>				<u>29</u> <u>10.5</u> <u>34</u> <u>73.5</u>
Forbs (Basal Cover)							
TOTAL							
Browse (Foliage Cover)							
<u>Armo Black Sage</u>	<u>2</u>	<u>2</u>	<u>11</u>		<u>2.75</u>	<u>33.8</u>	<u>3 1/2 - 7 1/2</u>
<u>EUSA Winter fat</u>	<u>5</u>	<u>8</u>	<u>9</u>		<u>1.75</u>	<u>21.5</u>	<u>2 1/2 - 4 - 1/2</u> Key spp.
TOTAL			<u>18</u>		<u>8.125</u>	<u>100.0</u>	
Litter							
PLOT TOTAL						<u>73.5</u>	

Comments

TREND INDEX SUMMARY

Composition, Key Species (percent)	<u>89.1</u>
Cover, Live Vegetation (percent)	<u>80.1</u>
Seedlings, Key Species (number)	<u>10</u>
Litter, Plot Total (percent)	
TOTAL	<u>107.2</u>

$$\frac{107.2}{107.2} = 100\%$$






DATE 8-18-70  
DIST SALT LAKE  
ALLOT  $\diamond$ -T  
PASTURE NORTH  
PLOT NO. 7

TRANSECT 7  
Sept. 17, 1989





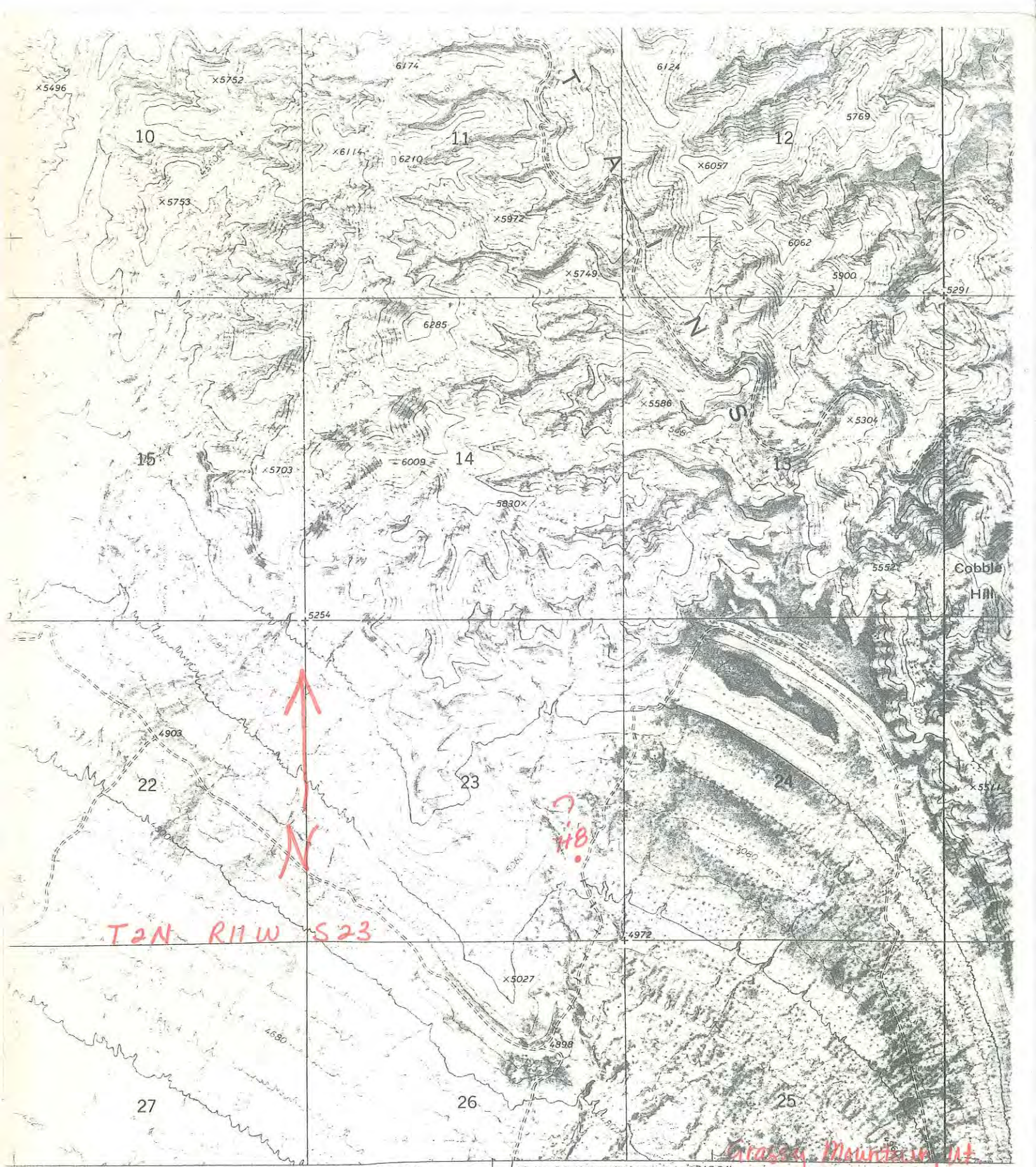
LAKESIDE  
SALT LAKE NO 2  
DATE \_\_\_\_\_  
PASTURE \_\_\_\_\_  
ALLOT \_\_\_\_\_  
PLOT 7



LAKESIDE  
SALT LAKE NO 2  
DATE \_\_\_\_\_  
PASTURE \_\_\_\_\_  
ALLOT \_\_\_\_\_  
PLOT 7

TRANSECT 7  
August 18, 1970





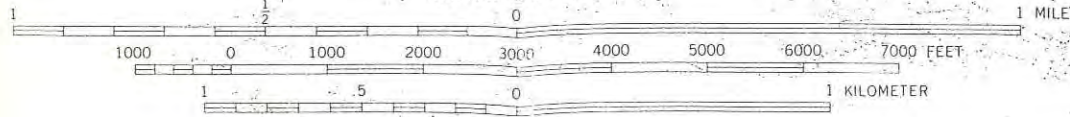
(RIPPLE VALLEY)  
3365 I SE

10 MI TO INTERSTATE 80

2'30"

R11W R10W

SCALE 1:24 000



CONTOUR INTERVAL 40 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



Pr  
ha  
Se  
ha



WEST GRASSY

Range Study #1

The plot is 46 paces southeast of  $N\frac{1}{2}$  corner of Section 1, T. 1 N., R. 11 W. A green, steel post marks the  $\frac{1}{4}$  corner peg.

Range Study #2

The plot is 74 paces north of  $N\frac{1}{2}$  corner of Section 1, T. 1 N., R. 11 W. A green, steel post marks  $\frac{1}{4}$  corner.

Range Study #3

The study is located .2 miles due east of  $N\frac{1}{2}$  corner of Section 6, T. 1 N., R. 11 W. Plot #3 is 20 paces north of red, steel post.

Range Study #4

Same procedure as #3. Plot #4 is 20 paces south of red, steel post.

Range Study #5

The plot is 23 steps east of the NW section corner of Section 6, T. 1 N., R. 10 W. The section corner is marked by a red, steel post.

Range Study #6

The plot is 33 steps north of the SW section corner of Section 31, T. 2 N., R. 10 W. The section corner is marked by a red, steel post.

Range Study #7

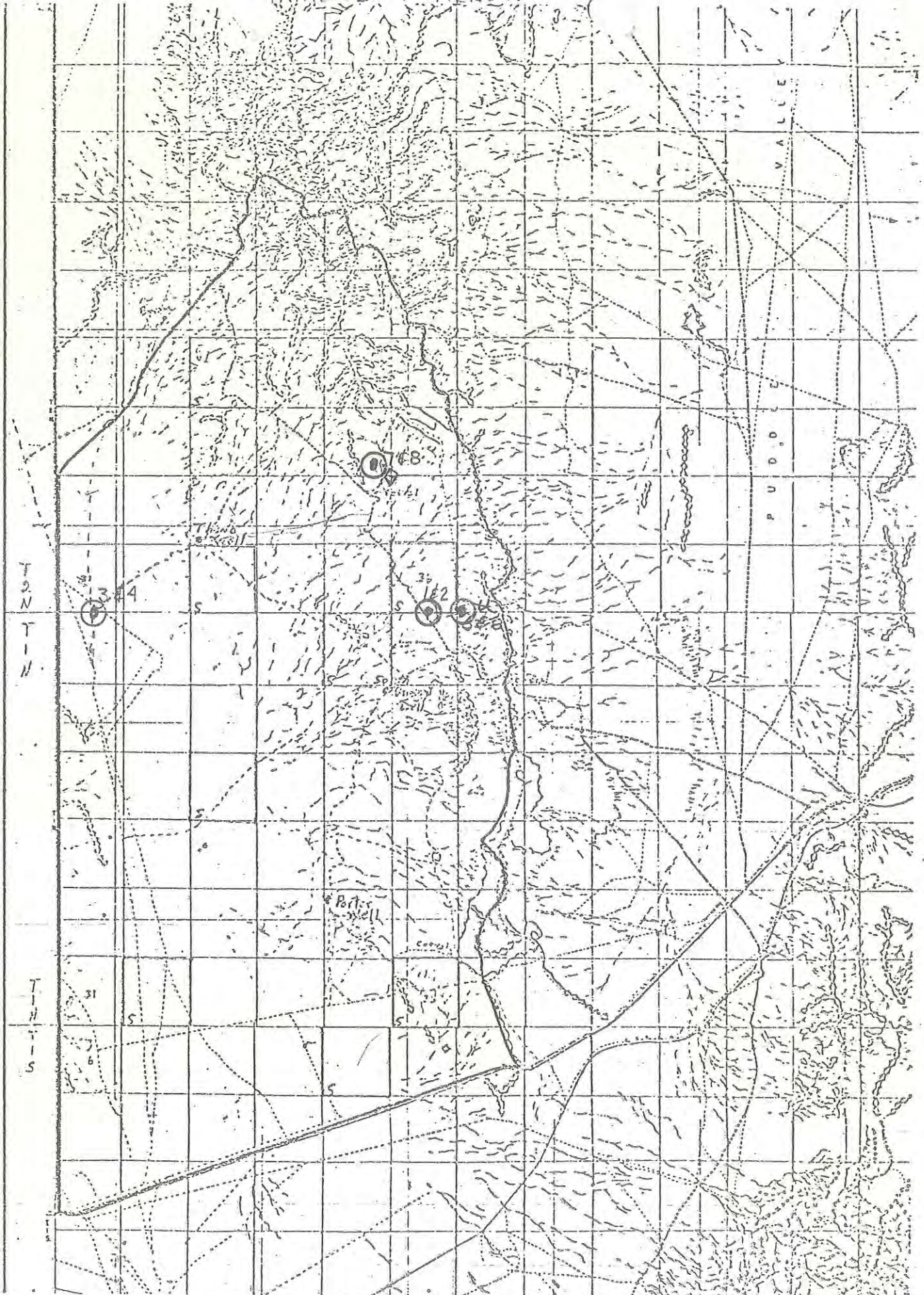
From study plots 1 and 2, follow the road northeast for <sup>3 1/2</sup> 2 miles to an old corral. Then, north  $1\frac{1}{2}$  mile to a red, steel post on the side of the road. The plot is 51 steps easterly from the red post.

Range Study #8

Same procedure as #7. Plot is 51 steps westerly from the red post.



DIAMOND-T ALLOT



u. vegetation Case O = RANGE STUDY PLOTS



### Key Area Location

District Salt Lake Date 7-24-89

Allotment West Grassy Aerial Photo # \_\_\_\_\_

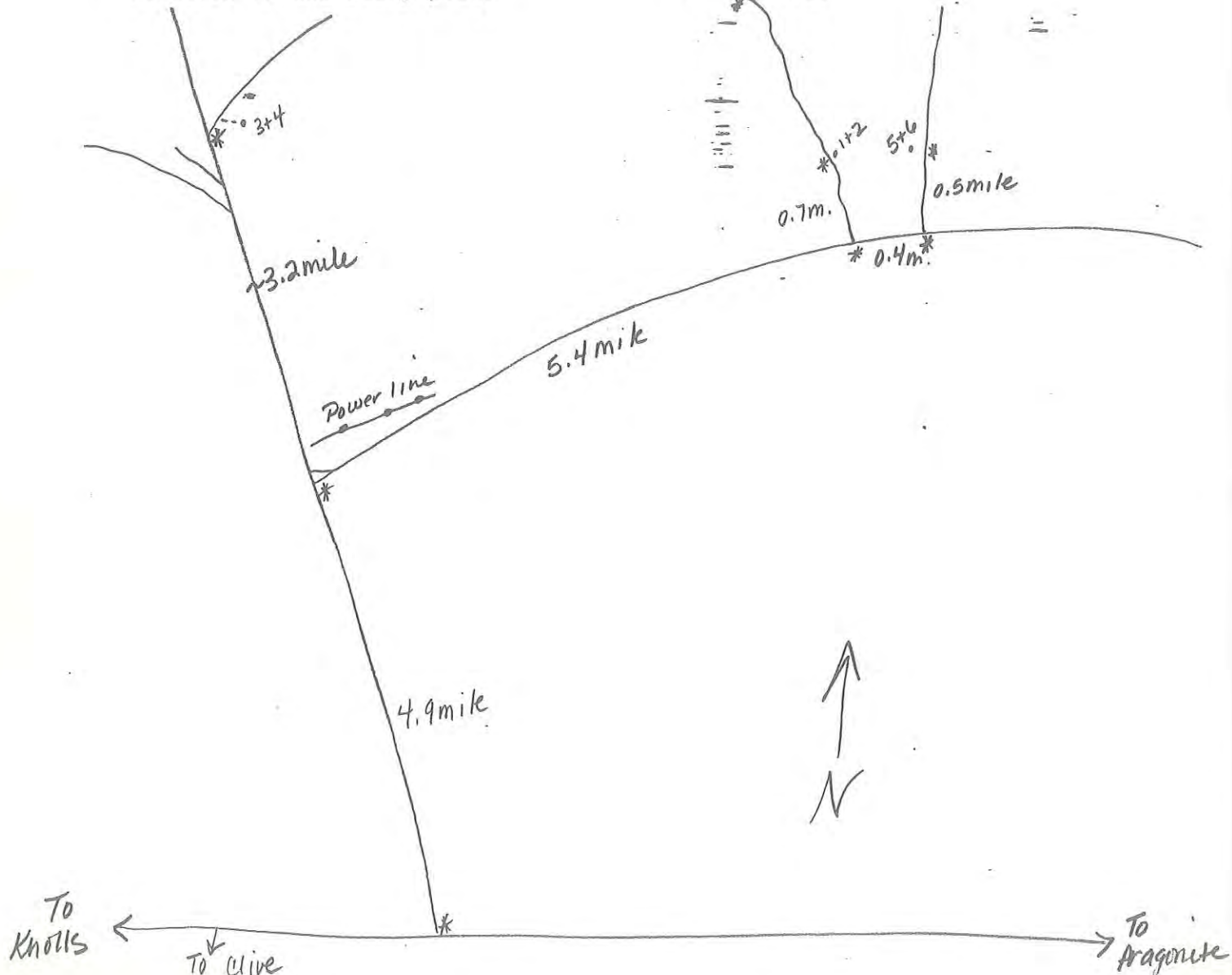
Prepared by K. Snyder or 7½' Quad Ripple Valley - Gray Back Hills -

or Orthophoto Grassy Mtns.

Photo or Map Date 1973-1973-1973

### Location Sketch (Scale 1:8)

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



ALLOTMENT	WEST GRASSY		LOCATION		TREND INDEX SUMMARY
	DATE		T2N R11W SEC. 23		
PLOT	WG-8		1/16 SQ. FT.	PERCENT	
	Mature	Seedlings	UNITS	Cover	Composition, Key Species
Grasses (basal cover)					100
ELSA	9		17	4.25	81.8
					7.8
					0
					0
					107.8
<b>TOTAL</b>	9	0	17	4.25	81.8
Forbs (basal cover)					
<b>TOTAL</b>	0	0	0	0	0
Browse (foliage cover)					
ARNO	2		14	3.5	18.2
<b>TOTAL</b>	2	0	14	3.5	18.2
LITTER					
<b>PLOT TOTAL</b>	11	0	31	7.75	100



ALLOTMENT	WEST GRASSY		LOCATION		
	DATE		T2N R11W SEC. 23		
PLOT	WG-8		1/16 SQ. FT.	PERCENT	
List by Species	NUMBER		UNITS	Cover	Composition
	Mature	Seedlings			
Grasses (basal cover)					
ELSA	9		18	4.5	81.8
<b>TOTAL</b>	9	0	18	4.5	81.8
Forbs (basal cover)					
<b>TOTAL</b>	0	0	0	0	0
Browse (foliage cover)					
ARNO	2		19.5	4.88	18.2
<b>TOTAL</b>	2	0	19.5	4.88	18.2
LITTER			15.5	3.88	
<b>PLOT TOTAL</b>	11	0	37.5	13.26	100

TREND INDEX SUMMARY	
Composition, Key Species	100
Cover, Live Vegetation	9.33
Seedlings, Key Species	0
Litter, Plot Total	3.88
<b>TOTAL</b>	113.21



ALLOTMENT	WEST GRASSY		LOCATION		TREND INDEX SUMMARY
	DATE		T2N R11W SEC. 23		
PLOT	WG-8		1/16 SQ. FT	PERCENT	
List by Species	NUMBER		UNITS	Cover	Composition
	Mature	Seedlings			
Grasses (basal cover)					
ELSA	7	3	32	8	99
POSE	1		0.1	0.03	11.03
					3
					1
					114.03
<b>TOTAL</b>	8	3	32.1	8.03	0
Forbs (basal cover)					
<b>TOTAL</b>	0	0	0	0	0
Browse (foliage cover)					
ARNO	2		12	3	
<b>TOTAL</b>	2	0	12	3	0
LITTER					
<b>PLOT TOTAL</b>	10	3	44.1	11.03	0







1989

READING # 5

PLOT # 8

Location Post LOST



TREND STUDIES WRITE-UP

EXAMINER and others present: K. Snyder  
\_\_\_\_\_  
\_\_\_\_\_

ALLOTMENT AND SITE NUMBER: \_\_\_\_\_

DATE: 7-24-89

TIME: \_\_\_\_\_

SLOPE: \_\_\_\_\_

CAMERA LENS: \_\_\_\_\_

COMMENTS: Location post gone. Plots not located. Need  
4x4 for road into area.



1985 & 1981

READINGS # 4&3

PLOT # 8



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RANGE TREND PLOT DATA

District

Resource Area

PONY EXPRESS

Date and Time 7/8/85 12:30

Examiner ROYCE

Allotment Name

WEST GRASSY # 8

NUMBER

ALLOTMENT

PLOT

# 8

PART I - PLOT DATA BY SQUARE FOOT SECTION

SPECIES			MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES
GRASS	FORB	BROWSE																				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)
ELSA		ARND			5		1		5	4.5	1		4.5									
	LITTER				.1				1				1									0
ELSA		ARND			5		1		8		1		1		.25						4.5	.5
	LITTER				1				3				2								1	
ELSA		ARND					1		1		1		3		1						4.5	1.5
	LITTER				1				5				2								.5	
ELSA		ARND			1.0		1		6.0		1		3								.25	
	LITTER				.1				5				1								.1	
ELSA		ARND			4		1		12				1								.5	3
	LITTER				.1				3				.1								.1	1.0



PART II - SUMMARY OF PLOT DATA						PART III - PLOT DIAGRAM				
LIST BY SPECIES	NUMBER		1/16 SQ. FT. UNITS (estimate)	TOTAL SQ. IN. (measurement)	PERCENT					
	MATURE PLANTS	SEED-LINGS			COVER	COMPOSITION				
(a)	(b)	(c)	(d)	(e)	(f)	(g)				
Grasses (Basal Cover)										
ELSA	11		45.75		11.44	59.0				
TOTAL										
Forbs (Basal Cover)										
TOTAL										
Browse (Foliage Cover)										
ARND	3		31.35		7.94	41.0				
TOTAL					19.3					
er			18.15		4.5					
PLOT TOTAL										

PART IV - TREND INDEX SUMMARY	
Composition, Key Species (percent)	100
Cover, Live Vegetation (percent)	19.3
Seedlings, Key Species (number)	-
Litter, Plot Total (percent)	4.54
TOTAL	

Key Species - ELSA ARND  
 $\frac{123.84}{107.08} \times 100 = 115.20$

GENERAL INSTRUCTIONS

Print one legible copy in field for each trend plot. File with Range Trend Plot Location Data (Form 4412-24) and photographs (see Bureau Manual 4115).

SPECIFIC INSTRUCTIONS

(Items not listed are self-explanatory)

PART I - PLOT DATA BY SQUARE FOOT SECTION

Record data for each 1' x 1' section of the plot

- Column (a) - Use four letter plant symbol
- Columns (b) & (c) - Enter number
- Column (d) - Estimate - 1/16 sq. feet units covered by specie
- Column (e) - Measure - Total sq. inches covered by specie
- Note: Use either estimate or measurement for each species. Do not use both.
- Total - Total data for each specie and enter (Part - II)

PART II - SUMMARY OF PLOT DATA

- Column (e) - Measurement -  $\frac{\text{Measured sq inches (Column (e))}}{1296 (3' \times 3' \text{ plot}) \text{ or } 3600 (5' \times 5' \text{ plot})} \times 100 = \text{cover}$
- Column (f) - Estimate - Multiply Column (d) by 0.7 (3' x 3' plot) or 0.25 (5' x 5' plot)
- Column (g) - Composition -  $\frac{\text{Cover (Column (f)) of specie}}{\text{Total cover (of plot in Column (f))}} \times 100 = \text{percent composition}$



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

RANGE TREND PLOT DATA

District **Salt Lake**  
 Resource Area **Pony Express**  
 Date and Time **9-2-81 3:15pm**  
 Examiner **Kidd**

Allotment Name  <b>West Grassy</b>	NUMBER	
	ALLOTMENT	PLOT
	<b>North</b>	<b>8</b>

PART I - PLOT DATA BY SQUARE FOOT SECTION

SPECIES			MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES	MATURE PLANTS	SEEDLINGS	1/16 UNITS	TOTAL SQ. INCHES
GRASS	FORB	BROWSE																				
	(a)		(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)
	LITTER																					
	LITTER																					
	LITTER																					
	LITTER																					
	LITTER																					



PART II - SUMMARY OF PLOT DATA							PART III - PLOT DIAGRAM			
LIST BY SPECIES (a)	NUMBER		1/16 SQ. FT. UNITS (estimate) (d)	TOTAL SQ. IN. (measurement) (e)	PERCENT					
	MATURE PLANTS (b)	SEED-LINGS (c)			COVER (f)	COMPOSITION (g)				
Grasses (Basal Cover)										
<i>ELsq</i>	7	3	32		.4					
<i>POSE</i>	1		1		.03					
TOTAL										
Forbs (Basal Cover)										
TOTAL										
Browse (Foliage Cover)										
<i>Ar no</i>	2		12		3					
TOTAL										
er										
PLOT TOTAL										

PART IV - TREND INDEX SUMMARY	
Composition, Key Species (percent) <i>FLSA, ARNO</i>	99
Cover, Live Vegetation (percent)	4.03 <del>2.8</del>
Seedlings, Key Species (number)	3
Litter, Plot Total (percent)	1
TOTAL	114 123

GENERAL INSTRUCTIONS

Print one legible copy in field for each trend plot. File with Range Trend Plot Location Data (Form 4412-24) and photographs (see Bureau Manual 4115).

SPECIFIC INSTRUCTIONS

(Items not listed are self-explanatory)

PART I - PLOT DATA BY SQUARE FOOT SECTION

Record data for each 1' x 1' section of the plot

- Column (a) - Use four letter plant symbol
- Columns (b) & (c) - Enter number
- Column (d) - Estimate - 1/16 sq. feet units covered by specie
- Column (e) - Measure - Total sq. inches covered by specie

Note: Use either estimate or measurement for each species. Do not use both.

Total - Total data for each specie and enter (Part - II)

PART II - SUMMARY OF PLOT DATA

Column (e) - Measurement -  $\frac{\text{Measured sq inches (Column (e))}}{1296 (3' \times 3' \text{ plot}) \text{ or } 3600 (5' \times 5' \text{ plot})} \times 100 = \text{cover}$

Column (f) - Estimate - Multiply Column (d) by 0.7 (3' x 3' plot) or 0.25 (5' x 5' plot)

Column (g) - Composition -  $\frac{\text{Cover (Column (f)) of specie}}{\text{Total cover (of plot in Column (f))}} \times 100 = \text{percent composition}$

*114 / 107.8 = 106.2*











1970 & 1969

READINGS # 2&1

PLOT # 8



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

District Salt Lake  
Date 8/18/70  
Examiner J. Perkins

RANGE TREND PLOT DATA

Allotment <u>Diamond-T</u>	Pasture <u>North</u>	Key Species	Elevation
Grazing System <u>deferred rotation</u>	PLOT		Slope
Treatment	Number <u>8</u>	Size <u>5x5</u>	<u>Elsa</u>
	Vegetative Type <u>desert shrub</u>		<u>Arno</u>
			Exposure <u>SE</u>

LIST BY SPECIES (a)	NUMBER		1/16 SQ. FT. UNITS (estimate) (d)	TOTAL SQ. IN. (measure- ment) (e)	PERCENT		SIZE OF INDIVIDUAL PLANTS (A = TT ab) (h)
	MATURE PLANTS (b)	SEED- LINGS (c)			COVER (f)	COMPO- SITION (g)	
Grasses (Basal Cover)							
<u>Elsa</u>	<u>9</u>		<u>18</u>		<u>4.5</u>	<u>81.8</u>	<u>2-6-7-1-</u>
TOTAL							
Forbs (Basal Cover)							
<u>Arno</u>	<u>2</u>		<u>19.5</u>		<u>4.88</u>	<u>18.2</u>	<u>134-2</u>
TOTAL							
Browse (Foliage Cover)							
Litter			<u>15.5</u>		<u>3.88</u>		<u>158-1</u>
PLOT TOTAL					<u>13.26</u>	<u>100</u>	

Comments

Arno Elsa

TREND INDEX SUMMARY

Composition, Key Species (percent)	<u>100.00</u>
Cover, Live Vegetation (percent)	<u>9.38</u>
Seedlings, Key Species (number)	<u>0</u>
Litter, Plot Total (percent)	<u>3.88</u>
TOTAL	<u>113.26</u>

113.26  
107.8 = 105.2




GENERAL INSTRUCTIONS

APPARENT TREND DATA

On-site Analysis (write concise narration of items listed below)

1. Soil stability, active erosion
  2. Relative plant composition:
    - a. desirable vs. undesirable
    - b. protected vs. unprotected
  3. Vigor—size, number of culms, growth, seedheads, etc
  4. Reproduction
  5. Evidence of grazing—past and present
  6. Apparent trend
- Revisitation Analysis  
 Compare with previous analysis. Note change in species, soil cover, litter, amount of erosion, etc. Use extra sheets, if necessary.

*Refer to plot #7.  
 Only slight plant erosion +  
 plant vigor is better than  
 at plot #7.*

SPECIFIC INSTRUCTIONS

Column

- (d) Each 1/16 sq. ft. unit = 0.7 percent, 3 x 3 ft. plot; 0.25 percent, 5 x 5 ft. plot

- (h) Record length and breadth — Divide by 2 for major and minor radii

1. Circle understory plants
2. Do not use understory plants in computing cover
3. In Trend Index Summary, cover live vegetation may be either total plot cover or cover of key species only



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

District  
SALT LAKE  
Date  
8/12/69  
Examiner  
CARPENTER, PERKINS

RANGE TREND PLOT DATA

51 Steps Westward From Red Post

Allotment <u>Diamond T</u>	Pasture <u>NORTH</u>	Key Species <u>Elsa</u>	Elevation
Grazing System <u>DEFERRED ROTATION</u>	PLOT Number <u>9</u> Size <u>5x5</u>		Slope <u>ALNO</u>
Treatment	Vegetative Type <u>SAGEBRUSH-GRASS</u>	Exposure <u>EAST</u>	

LIST BY SPECIES (a)	NUMBER		1/16 SQ. FT. UNITS (estimate) (d)	TOTAL SQ. IN. (measurement) (e)	PERCENT		SIZE OF INDIVIDUAL PLANTS (A = TT ab) (h)
	MATURE PLANTS (b)	SEED- LINGS (c)			COVER (f)	COMPO- SITION (g)	
Grasses (Basal Cover)							
<u>Elsa Salina W.R.</u>	<u>9</u>		<u>17</u>		<u>4.25</u>	<u>81.8</u>	<u>6-3-2 1/2-5 1/2</u>  <u>81.8</u>
TOTAL			<u>17</u>				
Forbs (Basal Cover)							
TOTAL							
Browse (Foliage Cover)							
<u>ALNO</u>	<u>2</u>		<u>14</u>		<u>3.5</u>	<u>18.2</u>	<u>10-11</u>
TOTAL			<u>14</u>		<u>7.75</u>	<u>100.0</u>	
Litter							
PLOT TOTAL							

Comments


TREND INDEX SUMMARY

Composition, Key Species (percent)	<u>100</u>
Cover, Live Vegetation (percent)	<u>7.8</u>
Seedlings, Key Species (number)	
Litter, Plot Total (percent)	
TOTAL	<u>107.8</u>













DATE 6-22-83  
DIST SALT LAKE  
ALLOT WEST  
PASTURE NORTH  
PLOT NO. 3







*Lawrence*

KODACOLOR PRINT  
Made by  
Kodak  
APR 69 PM





DATE  
DIST  
ALLOT  
PASTURE  
PLOT NO. 9









DATE 6-10-72  
DIST 5 L  
ALLOT West guality  
PASTURE Saadh  
PLOT NO. 4



