

BASAL AREA SUMMARY FORM

Allotment: Barnhill's District Ranger District: \_\_\_\_\_ Season: Spring  
 Cluster: 1 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Recorded by: Walter A. + G. G.

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES* BSL DIA**	Mo. Year		Mo. Year		Mo. Year		Mo. Year
	Mo.	Year	Mo.	Year	Mo.	Year	
<u>Boer</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u> <u>1975</u> <u>5</u> <u>1980</u>

<u>Boer</u>	<u>6.92cm</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>4</u>
	Basal Area (%):	<u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>	<u>0.2%</u>	<u>0.9%</u>	
	95% Intervals:	<u>(0.0% - 0.0%)</u>	<u>(0.0% - 0.0%)</u>	<u>(0.0% - 0.0%)</u>	<u>(0.1% - 0.4%)</u>	<u>(0.4% - 1.5%)</u>	
<u>Bogyr</u>	<u>6.62cm</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%):	<u>( )</u>	<u>( )</u>	<u>( )</u>	<u>( )</u>	<u>( )</u>	
	95% Intervals:	<u>( )</u>	<u>( )</u>	<u>( )</u>	<u>( )</u>	<u>( )</u>	
<u>Hija</u>	<u>2.98cm</u>	Hits: <u>0</u>	<u>0</u>	<u>3</u>	<u>4</u>	<u>2</u>	
	Basal Area (%):	<u>0.0%</u>	<u>0.0%</u>	<u>.4%</u>	<u>0.5%</u>	<u>0.3%</u>	
	95% Intervals:	<u>(0.0% - 0.0%)</u>	<u>(0.0% - 0.0%)</u>	<u>(.1% - .9%)</u>	<u>(0.2% - 1.0%)</u>	<u>(0.1% - 0.6%)</u>	
<u>Muto</u>	<u>10.75cm</u>	Hits: <u>4</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>4</u>	
	Basal Area (%):	<u>1.0%</u>	<u>0.0%</u>	<u>0.5%</u>	<u>1.0%</u>	<u>1.0%</u>	
	95% Intervals:	<u>(0.6% - 1.6%)</u>	<u>(0.0% - 0.0%)</u>	<u>( )</u>	<u>(0.2% - 0.2%)</u>	<u>(0.6% - 1.6%)</u>	
<u>SPCV</u>	<u>6.26cm</u>	Hits: <u>5</u>	<u>5</u>	<u>11</u>	<u>7</u>	<u>5</u>	
	Basal Area (%):	<u>1.1%</u>	<u>1.1%</u>	<u>2.3%</u>	<u>1.5%</u>	<u>1.1%</u>	
	95% Intervals:	<u>(0.6% - 1.7%)</u>	<u>(0.6% - 1.7%)</u>	<u>(1.7% - 3.1%)</u>	<u>(1.0% - 2.2%)</u>	<u>(0.6% - 1.7%)</u>	

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Allotment: Beverly Hills Watershed

Ranger District: \_\_\_\_\_

Season: Spring

Cluster: 1

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

5/26/92

Recorded by: \_\_\_\_\_

MCT, MG, RL + GG

MONTH AND YEAR PARKER DATA WERE RECORDED

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
						<u>5</u>	<u>1980</u>

SPECIES\* DMA\*\*

EQV  
BSL

SI-HY

2.94 cm

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

Hits: 1

Basal Area (%): 0.1%

95% Intervals: (0.0% - 0.3%)

BOCL

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

BOHI

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

ORHY

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: \_\_\_\_\_

ARIS

2.44 cm

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

Hits: 1

Basal Area (%): 0.2%

95% Intervals: (0.1% - 0.4%)

Hits: 0

Basal Area (%): 0.0%

95% Intervals: (0.0% - 0.0%)

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).



PLANT SIZE DATA FORM

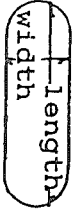
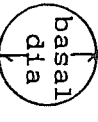
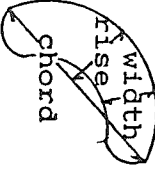

Form 2.

Species: H. sp. Season: \_\_\_\_\_  
 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Allotment: Barro Colorado  
 Cluster: 1 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Measured by: WET & GG

No.	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean
1	length 7.5 width 4	basal dia 5	width 4 rise 4 chord 4	width 4	7.5	12.5	6.3
2					5	15	5.0
3		basal dia 2.5			2.5	20	5.0
4		basal dia 5			5	24	4.8
5		basal dia 4			4	28	4.7
6	length 5 width 2.5				3	33	4.7
7	length 2.5 width 1.5				2.5	35.5	4.4
8		basal dia 2.5			2.5	38	4.2
9		basal dia 1.5			1.5	39.5	4.0
10		basal dia 1.5			1.5	41	3.9
11		basal dia 2			2	43	3.6
12	length 4 width 1.5				4	47	3.6
13		basal dia 2.5			2	49.5	3.5
14	length 5 width 3				5	54.5	3.6
15	length 4.5 width 4				4.5	63	3.9
16		basal dia 2.5			2.5	65.5	3.9
17							
18							
19							
20							
21							
22							
23							
24							
25	total 6	10					

PLANT SIZE DATA FORM

Species: Bocx Season: \_\_\_\_\_  
 Allotment: Berdus Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Cluster: 1 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Measured by: MCT JGG

No.	PLANT SHAPE				RUNNING MEANS		
	ELONGATED 	CIRCULAR 	ARC 	RING 	longest dimension	sum	mean
1	6				6		
2		2.5			2.5	8.5	4.3
3		2.5			2.5	11	3.7
4		5			5	16	4.0
5	7				7	23	4.6
6		5			5	28	4.7
7		10.5			10.5	38.5	5.5
8			18	10.5	18	56.5	7.1
9		6		8	6	62.5	6.9
10	11.5				11.5	74	7.4
11		10			10	84	7.6
12		10			10	94	7.8
13		5			5	99	7.6
14	10				10	109	7.8
15	8				8	117	7.8
16		5			5	122	7.6
17	17				17	139	8.2
18							
19							
20							
21							
22							
23							
24							
25							
total	6	10	1				

PLANT SIZE DATA FORM

Species: Mup Season: \_\_\_\_\_  
 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Allotment: \_\_\_\_\_  
 Cluster: 1 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/72 Measured by: MCT & G

PLANT SHAPE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
	length width	basal dia	chord rise width	width				
		6.5			6.5			
		26			26	32.5	16.3	2
		20			20	52.5	12.5	3
		24			24	76.5	19.1	4
	18.5	9			18.5	95	19	5
		17			17	112	18.7	6
	26	18.5			26	138	19.7	7
		24			24	162	20.3	8
		23			23	185	20.6	9
		9			9	193	19.3	10
		15			15	208	18.9	11
		10			10	218	18.2	12
		14			14	232	17.9	13
		13			13	245	17.5	14
	60	30			60	305	20.3	15
		19			19	324	20.3	16
								17
								18
								19
								20
								21
								22
								23
								24
								25
	total	4						
			12					

RUNNING MEANS

PLANT SIZE DATA FORM

Allotment: Banwalia Species: MUTO Season: \_\_\_\_\_  
 Cluster: 1 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MG & AL

PLANT SHAPE

No.	... ELONGATED ...		CIRCULAR		..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	longest dimension	sum	mean	
1											
2	30	4		69	32	6.5		69	99	49.5	
3				42	28	5	4	42	141	47.0	
4								4	145	36.3	
5								6	151	30.2	
6			5.5					5.5	156.5	26.1	
7				26	14	6.5		26	182.5	26.1	
8							9	9	191.5	23.9	
9			14					14	205.5	22.8	
10				18	19	5		19	224.5	22.5	
11							7	7	231.5	21.1	
12							6.5	6.5	238	19.8	
13	41	5						41	279	21.5	
14				38	18	5		38	317	22.6	
15				29	18	6		29	346	23.1	
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
<b>Total</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>6</b>	<b>5</b>					

PLANT SIZE DATA FORM

Allotment: Borivaldi Species: SPCR Season: \_\_\_\_\_  
 Cluster: \_\_\_\_\_ Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MG & AL

PLANT SHAPE

No.	... ELONGATED ...		CIRCULAR	..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	longest dimension	sum	mean
1										
2	6	2.5	2.5					2.5	8.5	4.3
3				22	12	8		28	30.5	10.2
4				40	20	7		40	70.5	17.6
5	29	7						29	99.5	19.9
6								4	103.5	17.3
7								4	108	15.4
8	8	3.5						4.5	116	14.5
9								8	123	13.7
10	9	3						7	132	13.2
11	10	3						9	142	13.9
12								10	146.5	13
13								4	150.5	11.6
14	9.5	2.5						9.5	160	11.4
15								5	165	11.0
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
Total	6	7								



BASAL AREA SUMMARY FORM

Allotment: Bernville Watershed Ranger District: \_\_\_\_\_ Season: SPR, MGY  
 Cluster: 2 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Recorded by: MCT, MGS, ALV, GGS

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES* BSL DIA**	Mo. Year		Mo. Year		Mo. Year		Mo. Year	
	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>BOCR</u> <u>5.74cm</u>	<u>0</u>		<u>0</u>		<u>0</u>		<u>1</u>	
Basal Area (%):	<u>0.0%</u>		<u>0.0%</u>		<u>0.0%</u>		<u>0.2%</u>	
95% Intervals:	<u>(0.0%-0.0%)</u>		<u>(0.0%-0.0%)</u>		<u>(0.0%-0.0%)</u>		<u>(0.1%-0.4%)</u>	
Hits:	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	
Basal Area (%):	<u>0.0%</u>		<u>0.0%</u>		<u>0.0%</u>		<u>0.0%</u>	
95% Intervals:	<u>(0.0%-0.0%)</u>		<u>(0.0%-0.0%)</u>		<u>(0.0%-0.0%)</u>		<u>(0.0%-0.0%)</u>	
Hits:	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	
Basal Area (%):	<u>0.2%</u>		<u>0.0%</u>		<u>0.0%</u>		<u>0.0%</u>	
95% Intervals:	<u>(0.1%-0.4%)</u>		<u>(0.0%-0.0%)</u>		<u>(0.0%-0.0%)</u>		<u>(0.0%-0.0%)</u>	
Hits:	<u>1</u>		<u>0</u>		<u>0</u>		<u>0</u>	
Basal Area (%):	<u>1.2%</u>		<u>0.3%</u>		<u>0.3%</u>		<u>0.5%</u>	
95% Intervals:	<u>(0.7%-1.8%)</u>		<u>(0.1%-0.4%)</u>		<u>(0.1%-0.4%)</u>		<u>(0.2%-0.9%)</u>	
Hits:	<u>5</u>		<u>1</u>		<u>1</u>		<u>2</u>	
Basal Area (%):	<u>0.4%</u>		<u>1.8%</u>		<u>2.6%</u>		<u>2.4%</u>	
95% Intervals:	<u>(0.1%-0.8%)</u>		<u>(1.2%-2.5%)</u>		<u>(1.9%-3.5%)</u>		<u>(1.7%-3.3%)</u>	
Hits:	<u>2</u>		<u>10</u>		<u>15</u>		<u>14</u>	
Basal Area (%):	<u>0.4%</u>		<u>1.8%</u>		<u>2.6%</u>		<u>2.4%</u>	
95% Intervals:	<u>(0.1%-0.8%)</u>		<u>(1.2%-2.5%)</u>		<u>(1.9%-3.5%)</u>		<u>(1.7%-3.3%)</u>	
Hits:	<u>2</u>		<u>10</u>		<u>15</u>		<u>14</u>	

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.  
 \*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Allotment: Bearvnt Hill Watershed Ranger District: \_\_\_\_\_ Season: Spring  
 Cluster: 2 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Recorded by: MCT, MG, AK + GG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES* EQV BSL DIA**	Mo. Year		Mo. Year		Mo. Year		Mo. Year	
	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
	5	1955	5	1961	5	1970	5	1975
							5	1980

<u>SIHY</u>	<u>2.94</u> cm	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%):	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
	95% Intervals:	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
<u>BOCL</u>		Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%):	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
	95% Intervals:	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
<u>BDHI</u>		Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%):	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
	95% Intervals:	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
<u>ORHY</u>		Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%):	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
	95% Intervals:	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
<u>ARIS</u>	<u>7.44</u> cm	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%):	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )
	95% Intervals:	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )	( <u>    </u> - <u>    </u> )

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Allotment: Bermillo Watershed

Ranger District: \_\_\_\_\_

Season: Spring

Cluster: 2

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: 5/26/92

Recorded by: MCT, MG, W & VGG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES*	EQV BSL	DIA**	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year		
			5	1955	5	1961	5	1970	5	1975	5	1980

STCO Hits: 0 0 0 0

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

STNE Hits: 0 0 0 0

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

Hits: \_\_\_\_\_

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

Hits: \_\_\_\_\_

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

Hits: \_\_\_\_\_

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

Hits: \_\_\_\_\_

Basal Area (%): \_\_\_\_\_

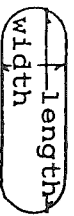
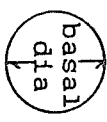
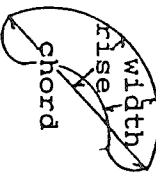

95% Intervals: (\_\_\_\_ - \_\_\_\_)

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

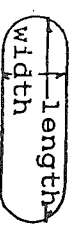
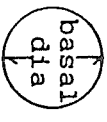
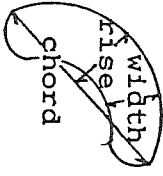

PLANT SIZE DATA FORM

Allotment: Baran, W 8 Species: Sily Season: \_\_\_\_\_  
 Cluster: 3 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MCT JGG

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...  length width	CIRCULAR  basal dia	..... ARC .....  chord rise width width	RING  width	longest dimension	sum	mean
1		4.5					1
2		4					2
3		7					3
4		1					4
5		4					5
6		1					6
7		2.5					7
8		3					8
9		1					9
10	6	2					10
11		2					11
12	5	1					12
13		2					13
14	8	2					14
15		4.5					15
16	4	1.5					16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<u>total</u>	<u>4</u>	<u>12</u>					<u>25</u>

PLANT SIZE DATA FORM

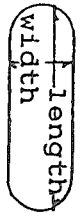

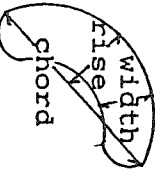

Allotment: Berr 405 Species: Ber Season: \_\_\_\_\_  
 Cluster: 2 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_  
 Measured by: MT JGK

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...  length width	CIRCULAR  basal dia	..... ARC .....  chord rise width	RING  width	longest dimension	sum	mean
1				1.5			1
2		6					2
3	14	6					3
4							4
5		3					5
6		7					6
7		4.5					7
8		9					8
9	8	2.5					9
10			12	8	3.5		10
11	14	8					11
12			19	10	6		12
13							13
14		7.5					14
15		2					15
16		5					16
17		4					17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
total	3	11	2	1			25

Form 2.

PLANT SIZE DATA FORM

Allotment: Bern W S Species: Hija Season: \_\_\_\_\_  
 Cluster: 2 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_  
 Measured by: MCT & G

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1							1
2							2
3	10	6.5					3
4	19	8.5					4
5			9				5
6			6.5				6
7			6				7
8	13	5					8
9							9
10			22.5	9	6.5		10
11			19.5	9.5	3.5		11
12			9				12
13			5.5				13
14			11.5	9	5		14
15							15
16	20	8					16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
Total 4   9   3							



PLANT SIZE DATA FORM

Allotment: BERN Species: SPCR Season: \_\_\_\_\_  
 Cluster: 2 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/72 Number of Transects: \_\_\_\_\_ Measured by: ALVMG

PLANT SHAPE

	... ELONGATED ...	CIRCULAR	..... ARC .....			RING	RUNNING MEANS		
	length width	basal dia	chord	rise	width	width	longest dimension	sum	mean
1	8	3.5							
2		4							
3		4.5							
4			12.5	6.5	3.5				
5						3			
6									
7									
8									
9			13.5	5.5	3				
10	8	4.5							
11									
12	7	4							
13									
14									
15									
16						2.5			
17									
18									
19									
20									
21									
22									
23									
24									
25									
<b>Total</b>	<b>3</b>	<b>8</b>	<b>2</b>	<b>2</b>					



BASAL AREA SUMMARY FORM

Allotment: BENNAVILLE WILSON

Ranger District: \_\_\_\_\_

Season: SPRING

Cluster: 3

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: 5/26/92

Recorded by: MCTYMG AKRIGG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES* BSL DIA**	MO. Year		MO. Year		MO. Year		MO. Year	
	MO.	Year	MO.	Year	MO.	Year	MO.	Year
	5	1955	5	1961	5	1970	5	1975
							5	1980

BOLN 5.64cm Hits: 0 Basal Area (%): 0.0% 95% Intervals: (0.0%-0.0%)

BOGR 6.62cm Hits: 0 Basal Area (%): 0.0% 95% Intervals: (0.0%-0.0%)

HISH 3.52cm Hits: 4 Basal Area (%): 0.7% 95% Intervals: (0.3%-1.2%)

MUTO 9.39cm Hits: 1 Basal Area (%): 0.3% 95% Intervals: (0.1%-0.4%)

SPCA 5.55cm Hits: 1 Basal Area (%): 0.2% 95% Intervals: (0.1%-0.4%)

Species	BSL	DIA**	Hits	Basal Area (%)	95% Intervals
BOLN	5.64	cm	0	0.0%	(0.0%-0.0%)
BOGR	6.62	cm	0	0.0%	(0.0%-0.0%)
HISH	3.52	cm	4	0.7%	(0.3%-1.2%)
MUTO	9.39	cm	1	0.3%	(0.1%-0.4%)
SPCA	5.55	cm	1	0.2%	(0.1%-0.4%)

\*\*Equivalent mean basal diameter (cm).

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.



BASAL AREA SUMMARY FORM

Allotment: BENNA 1110 Watershed Ranger District: \_\_\_\_\_ Season: Spring

Cluster: 3 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_

Date of Plant Size Measurements: 5/26/92 Recorded by: MCT, MS, AK & GG

**MONTH AND YEAR PARKER DATA WERE RECORDED**

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
						<u>5</u>	<u>1980</u>

SPECIES *	EQV BSL DIA **	Hits:	Basal Area (%):	95% Intervals:	Hits:	Basal Area (%):	95% Intervals:	Hits:	Basal Area (%):	95% Intervals:	Hits:	Basal Area (%):	95% Intervals:
<u>STCO</u>		<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>
<u>STNE</u>		<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

PLANT SIZE DATA FORM

Allotment: Burn, W5  
 Cluster: 3  
 Date of Plant Size Measurements: 5/26/92

Species: H<sub>2</sub>O  
 Ranger District: \_\_\_\_\_  
 Number of Transects: \_\_\_\_\_

Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_  
 Measured by: MCT rcs

PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			RING	
	length	width	basal dia		chord	rise	width	width	width
1				4.5					
2									
3	11	6							
4	9	3.5							
5									
6									
7									
8									
9									
10									
11									
12									
13	6.5	3.5							
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

longest dimension      sum      mean

RUNNING MEANS

1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Total 3      16

PLANT SIZE DATA FORM

Species: Baker

Season: \_\_\_\_\_

Allotment: Bern W S

Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: 3

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

5/26/92

Measured by: NET & G

PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			RING	
	length	width	basal dia	width	chord	rise	width	width	
1									
2	9	3	5						
3	7	4							
4			6						
5			4						
6			3.5						
7	11.5	6							
8			6.5						
9			5						
10	9	3							
11			4						
12			4						
13	9	4							
14			10						
15			8.5						
16			7						
17			4						
18									
19									
20									
21									
22									
23									
24									
25									

RUNNING MEANS

	longest dimension	sum	mean
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

total 5 12

Form 2.

PLANT SIZE DATA FORM

Allotment: Burn W5 Species: Sibby Season: \_\_\_\_\_  
 Cluster: 3 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: \_\_\_\_\_ Number of Transects: \_\_\_\_\_  
 Measured by: MC7 d & C

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	 ... ELONGATED ... length width	 CIRCULAR basal dia	 ... ARC ... width rise chord	 RING width	longest dimension	sum	mean
1							1
2		5					2
3		3.5					3
4		3					4
5		3.5					5
6		3.5					6
7		5.5					7
8		2					8
9	4	1.5					9
10	5	1.5					10
11	5	1.5					11
12							12
13			2				13
14	6	2					14
15			2				15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
total				4	11		

PLANT SIZE DATA FORM

Allotment: BERN Species: MILTO Season: \_\_\_\_\_  
 Cluster: 3 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_  
 Measured by: \_\_\_\_\_

PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			RING		RUNNING MEANS		
	length	width	basal dia		chord	rise	width	width	width	longest dimension	sum	mean
1												
2	14	3			6.6	4.5	7	6				
3			6									
4												
5	20	5						5.5				
6			4									
7					5.8	3.4	6					
8												
9	18	9										
10								6				
11			7									
12								6				
13								4				
14					5.0	1.6	5					
15					4.8	2.6	5.5					
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
Total	3		3			4		5				

PLANT SIZE DATA FORM

W. J. ...  
 5/26/52  
 1000  
 50  
 1000

Allotment: B&RM Species: Sp. R Season: \_\_\_\_\_  
 Cluster: 3 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/52 Number of Transects: \_\_\_\_\_ Measured by: \_\_\_\_\_

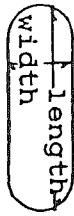

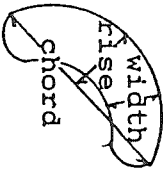

PLANT SHAPE

	... ELONGATED ...		CIRCULAR	..... ARC .....			RING	RUNNING MEANS		
	length cm	width cm	basal dia cm	chord	rise	width	width	longest dimension	sum	mean
1										
2			6.5							
3	9	3								
4			1.3							
5			4.5							
6			4.5							
7			6.5							
8			6							
9			5.5							
10			3							
11	6	3.5								
12			2.5							
13			10							
14	11	3.5								
15			4							
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
	Total 3		12							



PLANT SIZE DATA FORM

Allotment: BERM Species: AR/0 Season: \_\_\_\_\_  
 Cluster: 3 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_  
 Measured by: AL & WGS

No.	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1	8.5	5					1
2			3.2	19	6		2
3		8					3
4		6					4
5	10	6.5					5
6		7					6
7		9					7
8		16					8
9		4					9
10		3.5					10
11		6.5					11
12		5.5					12
13		7					13
14			2.3	10	5		14
15	15	4					15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<b>Total</b>	<b>3</b>	<b>10</b>	<b>2</b>				

BASAL AREA SUMMARY FORM

Allotment: Berry 1110 Wm. Tensford Ranger District: \_\_\_\_\_ Season: Sp.  
 Cluster: 4 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Recorded by: MCT, MG, AL, FGG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES*	EQV BSL DMA**	Mo. Year		Mo. Year		Mo. Year		Mo. Year	
		Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
		5	1955	5	1961	5	1970	5	1975

SPECIES*	EQV BSL DMA**	Mo. Year		Mo. Year		Mo. Year		Mo. Year	
		Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>BOER</u>	<u>5.36cm</u>	Hits:	<u>0</u>	Hits:	<u>0</u>	Hits:	<u>2</u>	Hits:	<u>0</u>
		Basal Area (%):	<u>0.0%</u>	Basal Area (%):	<u>0.0%</u>	Basal Area (%):	<u>0.4%</u>	Basal Area (%):	<u>0.0%</u>
		95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>(0.2%-0.8%)</u>	95% Intervals:	<u>( - - )</u>
<u>BOGR</u>	<u>6.62cm</u>	Hits:	<u>0</u>	Hits:	<u>0</u>	Hits:	<u>0</u>	Hits:	<u>0</u>
		Basal Area (%):	<u>( - - )</u>	Basal Area (%):	<u>( - - )</u>	Basal Area (%):	<u>( - - )</u>	Basal Area (%):	<u>( - - )</u>
		95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>( - - )</u>
<u>HIJA</u>	<u>2.99cm</u>	Hits:	<u>0</u>	Hits:	<u>2</u>	Hits:	<u>5</u>	Hits:	<u>6</u>
		Basal Area (%):	<u>0.0%</u>	Basal Area (%):	<u>0.5%</u>	Basal Area (%):	<u>0.6%</u>	Basal Area (%):	<u>0.7%</u>
		95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>(0.1%-0.6%)</u>	95% Intervals:	<u>(0.2%-1.1%)</u>	95% Intervals:	<u>(0.3%-1.2%)</u>
<u>MUTO</u>	<u>8.15cm</u>	Hits:	<u>7</u>	Hits:	<u>1</u>	Hits:	<u>1</u>	Hits:	<u>2</u>
		Basal Area (%):	<u>1.7%</u>	Basal Area (%):	<u>0.5%</u>	Basal Area (%):	<u>0.3%</u>	Basal Area (%):	<u>0.5%</u>
		95% Intervals:	<u>(1.1%-2.3%)</u>	95% Intervals:	<u>(0.1%-0.4%)</u>	95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>(0.2%-0.9%)</u>
<u>SPCR</u>	<u>4.83cm</u>	Hits:	<u>0</u>	Hits:	<u>3</u>	Hits:	<u>5</u>	Hits:	<u>9</u>
		Basal Area (%):	<u>0.0%</u>	Basal Area (%):	<u>0.6%</u>	Basal Area (%):	<u>1.1%</u>	Basal Area (%):	<u>1.6%</u>
		95% Intervals:	<u>( - - )</u>	95% Intervals:	<u>(0.2%-1.2%)</u>	95% Intervals:	<u>(0.6%-1.7%)</u>	95% Intervals:	<u>(1.0%-2.3%)</u>

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).



**BASAL AREA SUMMARY FORM**

Allotment: Bernalillo Watershed Ranger District: \_\_\_\_\_ Season: Spring  
 Cluster: 4 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Recorded by: MCT, MG, AK + GG

**MONTH AND YEAR PARKER DATA WERE RECORDED**

Mo.	Year	Mo.	Year	Mo.	Year	M/D	YEAR
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
						<u>5</u>	<u>1980</u>

SPECIES *	EQV BSL DMA**	Hits:	Basal Area (%)	95% Intervals	Hits:	Basal Area (%)	95% Intervals	Hits:	Basal Area (%)	95% Intervals	Hits:	Basal Area (%)	95% Intervals
<u>STCO</u>	<u>✓</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>
<u>STNE</u>	<u>✓</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>	<u>0</u>	<u>0</u>	<u>( - - )</u>

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

PLANT SIZE DATA FORM

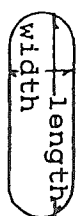

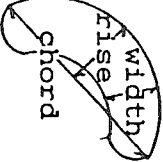

Allotment: Rem W/S Species: Alfalfa Season: \_\_\_\_\_  
 Cluster: 4 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_  
 Measured by: W.C. D. & C.

PLANT SHAPE

	... ELONGATED ...			CIRCULAR		..... ARC .....			RING		RUNNING MEANS		
	length	width	basal dia	chord	rise	width	chord	rise	width	longest dimension	sum	mean	
1													
2	8	4	3										
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15	5	3											
16	7	2											
17													
18													
19													
20													
21													
22													
23													
24													
25													
<b>Total</b>	<b>3</b>		<b>14</b>										

PLANT SIZE DATA FORM

Allotment: Bear Woods Species: Bear Season: \_\_\_\_\_  
 Cluster: 4 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_ Measured by: MCT + GG

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1	8	5					1
2	7	2.5					2
3							3
4	7						4
5							5
6							6
7							7
8	7	3					8
9	9	5					9
10							10
11							11
12							12
13							13
14	7.5	3.5					14
15							15
16	6	4					16
17	6.5	5					17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
Total	8	7	2	1			

PLANT SIZE DATA FORM

Allotment: Barro Colorado Species: SPR Season: \_\_\_\_\_  
 Cluster: 4 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_ Measured by: MG & AB

SPR  
 Milk  
 High  
 5/27/92

PLANT SHAPE

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean
1							
2		10.5					
3		4					
4	6.5						
5	7						
6							
7			2.2				
8	15.5	2.5		11			
9				5			
10	13						
11	10						
12							
13	8.5						
14							
15	6						
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
<b>Total</b>	<b>7</b>	<b>5</b>	<b>1</b>	<b>2</b>			

PLANT SIZE DATA FORM

Allotment: Paradise Species: ALC Season: \_\_\_\_\_  
 Cluster: 4 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_ Measured by: MG & AL

PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia		chord	rise	width	width	longest dimension	sum	mean
1											
2			6		25	14	4				
3					9	7	3.5				
4			5								
5	10	3.5			40	26	7				
6											
7	21	6.5	5								
8					16	13	6				
9								4			
10								6			
11								8.5			
12			3								
13					29	13	4				
14											
15	14	4.5									
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
	Total 3		4		5			3			



BASAL AREA SUMMARY FORM

Allotment: Bearm. 116 Whit.

Ranger District: \_\_\_\_\_

Season: Spring  
Forest: \_\_\_\_\_

Cluster: S

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: 5/27/92

Recorded by: W.C.T.M.G./M.L.V.G.S.

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES* BSL DIA**	Mo. Year		Mo. Year		Mo. Year		Mo. Year			
	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year		
<u>BOGR</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>	<u>5</u>	<u>1980</u>

<u>BOGR</u>	<u>3.06cm</u>	Hits: <u>1</u>	<u>0.2%</u>	<u>1</u>	<u>0.2%</u>	<u>3</u>	<u>0.5%</u>	<u>3</u>	<u>0.5%</u>
	Basal Area (%):	<u>0.2%</u>		Basal Area (%):	<u>0.2%</u>		Basal Area (%):	<u>0.5%</u>	
	95% Intervals:	<u>(0.0% - 0.4%)</u>		95% Intervals:	<u>(0.0% - 0.4%)</u>		95% Intervals:	<u>(0.1% - 1.1%)</u>	
<u>BOGR</u>	<u>4.49cm</u>	Hits: <u>3</u>	<u>0.6%</u>	<u>0</u>	<u>0.0%</u>	<u>7</u>	<u>1.3%</u>	<u>10</u>	<u>1.6%</u>
	Basal Area (%):	<u>0.6%</u>		Basal Area (%):	<u>0.0%</u>		Basal Area (%):	<u>1.8%</u>	
	95% Intervals:	<u>(0.2% - 1.2%)</u>		95% Intervals:	<u>( )</u>		95% Intervals:	<u>(1.2% - 2.5%)</u>	
<u>HITA</u>	<u>5.46cm</u>	Hits: <u>0</u>	<u>0.0%</u>	<u>0</u>	<u>0.0%</u>	<u>2</u>	<u>0.4%</u>	<u>1</u>	<u>0.2%</u>
	Basal Area (%):	<u>0.0%</u>		Basal Area (%):	<u>0.0%</u>		Basal Area (%):	<u>0.4%</u>	
	95% Intervals:	<u>( )</u>		95% Intervals:	<u>( )</u>		95% Intervals:	<u>(0.2% - 0.8%)</u>	
<u>MUTO</u>	<u>5.18cm</u>	Hits: <u>0</u>	<u>0.0%</u>	<u>2</u>	<u>0.4%</u>	<u>1</u>	<u>0.2%</u>	<u>0</u>	<u>0.0%</u>
	Basal Area (%):	<u>0.0%</u>		Basal Area (%):	<u>0.4%</u>		Basal Area (%):	<u>0.2%</u>	
	95% Intervals:	<u>( )</u>		95% Intervals:	<u>(0.2% - .8%)</u>		95% Intervals:	<u>( )</u>	
<u>SPCR</u>	<u>✓</u>	Hits: <u>0</u>	<u>( )</u>	<u>0</u>	<u>( )</u>	<u>0</u>	<u>( )</u>	<u>0</u>	<u>( )</u>
	Basal Area (%):	<u>( )</u>		Basal Area (%):	<u>( )</u>		Basal Area (%):	<u>( )</u>	
	95% Intervals:	<u>( )</u>		95% Intervals:	<u>( )</u>		95% Intervals:	<u>( )</u>	

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Season: Spring  
Forest: \_\_\_\_\_

Allotment: Bernalillo Watershed Ranger District: \_\_\_\_\_  
 Cluster: 5 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Recorded by: MCT, MG, AL, & GG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES* BSL DIA**	EOV	Mo. Year		Mo. Year		Mo. Year		Mo. Year			
		Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year		
		<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>	<u>5</u>	<u>1980</u>

<u>SEHY</u>	<u>/</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>
<u>BOCU</u>	<u>2.90 cm</u>	Hits: <u>0</u>	Basal Area (%): <u>0.0%</u>	95% Intervals: <u>( - - )</u>	Hits: <u>1</u>	Basal Area (%): <u>.1%</u>	95% Intervals: <u>(.00% - .3%)</u>	Hits: <u>0</u>	Basal Area (%): <u>.1%</u>	95% Intervals: <u>(.00% - .3%)</u>	Hits: <u>0</u>	Basal Area (%): <u>0.0%</u>	95% Intervals: <u>( - - )</u>
<u>BOHI</u>	<u>4.85</u>	Hits: <u>0</u>	Basal Area (%): <u>0.0%</u>	95% Intervals: <u>( - - )</u>	Hits: <u>5</u>	Basal Area (%): <u>.9%</u>	95% Intervals: <u>(.5% - 1.5%)</u>	Hits: <u>0</u>	Basal Area (%): <u>0.0%</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0.0%</u>	95% Intervals: <u>( - - )</u>
<u>DAHY</u>	<u>with basal diameter taken</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>1</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>
<u>AKIS</u>	<u>7.90</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>	Hits: <u>0</u>	Basal Area (%): <u>0</u>	95% Intervals: <u>( - - )</u>

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Allotment: Banner Hills Watershed

Ranger District: \_\_\_\_\_

Season: Spring

Cluster: S

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: 5/27/92

Recorded by: MCT, MG, A & GG

MONTH AND YEAR PARKER DATA WERE RECORDED

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
						<u>5</u>	<u>1980</u>

SPECIES\* DIA\*\*

EQV  
BSL

<u>STCO</u>	<u>1.83cm</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>
		Basal Area (%): <u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>	<u>0.1%</u>	<u>0.0%</u>
		95% Intervals: <u>( - - )</u>	<u>( - - )</u>	<u>( - - )</u>	<u>(0.0% - .2%)</u>	<u>( - - )</u>
<u>STVE</u>	<u>1.83cm</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>
		Basal Area (%): <u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>	<u>.1%</u>
		95% Intervals: <u>( - - )</u>	<u>( - - )</u>	<u>( - - )</u>	<u>(0.0% - 0.2%)</u>	<u>( - - )</u>
		Hits: _____	_____	_____	_____	_____
		Basal Area (%): _____	_____	_____	_____	_____
		95% Intervals: _____	_____	_____	_____	_____
		Hits: _____	_____	_____	_____	_____
		Basal Area (%): _____	_____	_____	_____	_____
		95% Intervals: _____	_____	_____	_____	_____
		Hits: _____	_____	_____	_____	_____
		Basal Area (%): _____	_____	_____	_____	_____
		95% Intervals: _____	_____	_____	_____	_____

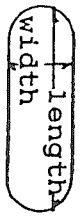

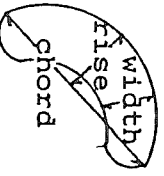

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

Form 2.

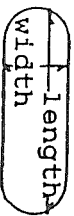
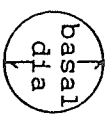
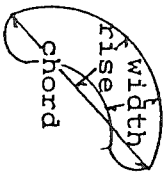
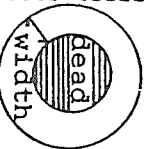
PLANT SIZE DATA FORM

Species: MWD Season: \_\_\_\_\_  
 Allotment: Brown 625 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Cluster: 5 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: \_\_\_\_\_ Measured by: WILL FISCH

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1	1.8	4.5					1
2							2
3			6	4	2.5		3
4	11	4					4
5	5	4					5
6	5	2					6
7	9	5	24.5	9	5		7
8							8
9	6	3					9
10	9	4.5					10
11							11
12	7	3.5					12
13							13
14	7	3					14
15							15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<b>Total</b>	<b>9</b>	<b>4</b>	<b>2</b>	<b>1</b>			

PLANT SIZE DATA FORM

Allotment: Forest 115 Species: Bar Season: \_\_\_\_\_  
 Cluster: 5 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/22/92 Number of Transects: \_\_\_\_\_ Measured by: MCT & GC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	.. ELONGATED .. 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1		7					1
2		3					2
3		2.5					3
4		2					4
5		2					5
6		2					6
7		2.5					7
8		2					8
9		1					9
10		3					10
11		3					11
12	6	2					12
13		2					13
14		2.5					14
15	9	2					15
16		2.5					16
17	5	2.5					17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<b>Total</b>	<b>4</b>	<b>13</b>					<b>25</b>

PLANT SIZE DATA FORM

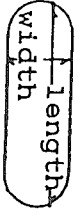
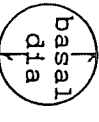
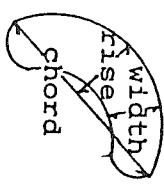
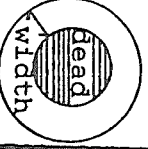
Allotment: Forest No 8 Species: Populus Season: \_\_\_\_\_  
 Cluster: 5 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/72 Number of Transects: \_\_\_\_\_ Measured by: M. J. J. S. C.

PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			RING		RUNNING MEANS		
	length	width	basal dia	width	chord	rise	width	width	longest dimension	sum	mean	
1												1
2	2.5	0.5	6									2
3			5									3
4	5	2	2									4
5	5.5	2.5										5
6	10.5	4.5										6
7	8	3										7
8	8	3	2.5									8
9			3.5									9
10												10
11					1.3	6	3					11
12	6.5	4.5										12
13	8	4.5										13
14	7.5	3										14
15			3.5									15
16			4.5									16
17												17
18												18
19												19
20												20
21												21
22												22
23												23
24												24
25												25
<b>Total</b>	<b>8</b>		<b>7</b>									<b>25</b>

PLANT SIZE DATA FORM

Allotment: Prison 415 Species: STCO Season: \_\_\_\_\_  
 Cluster: S Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/22/92 Number of Transects: \_\_\_\_\_  
 Measured by: \_\_\_\_\_

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...  length width	CIRCULAR  basal dia	..... ARC .....  chord rise width	RING  width	longest dimension	sum	mean
1	4.5	1.5					
2							
3							
4	3	1.5					
5	1	2.5					
6							
7							
8							
9							
10							
11							
12	2.5	1.5					
13							
14							
15	6.5	1					
16	4.5	1.5					
17							
18							
19							
20							
21							
22							
23							
24							
25							
<b>Total</b>	<b>6</b>	<b>8</b>	<b>1</b>	<b>1</b>			

PLANT SIZE DATA FORM

Species: BDCU

Season: \_\_\_\_\_

Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

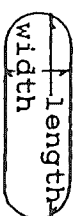

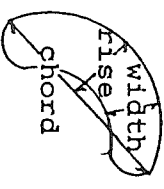

Cluster: S

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: 5/27/92

Measured by: ALVING

PLANT SHAPE

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1		3					1
2		2					2
3							3
4	5						4
5	1.5						5
6							6
7		1.5					7
8	11	2					8
9	5	1					9
10	7	3					10
11		3					11
12		2.5					12
13		2.5					13
14		5					14
15		10					15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<u>Total</u>	<u>4</u>	<u>11</u>					

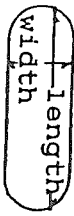

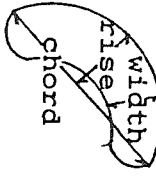



PLANT SIZE DATA FORM

Don't forget to fill in  
 when you get to the  
 field

Allotment: BENNING Species: Hija Season: \_\_\_\_\_  
 Cluster: 5 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_  
 Measured by: PLAMIG

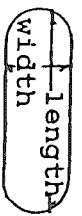
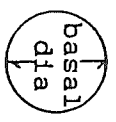
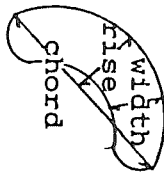
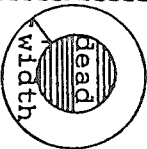
PLANT SHAPE

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1	10	3					1
2	11	3.5					2
3			4				3
4					20	11	4
5					12	8	5
6			4			4	6
7	6	2					7
8			5				8
9				5			9
10				6			10
11			15	11		5	11
12	12	3.5					12
13	10	2.5					13
14	5.5	1.5					14
15				7			15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<b>Total</b>	<b>6</b>	<b>6</b>	<b>3</b>				<b>25</b>

PLANT SIZE DATA FORM

Allotment: BENW/116 Species: BHT Season: \_\_\_\_\_  
 Cluster: 5 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_  
 Measured by: A L F PMS

PLANT SHAPE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	RUNNING MEANS		
	 length width 8 4	 basal dia 5 5.5 3.5	 width rise width chord 24 7 2	 basal dia width 2	longest dimension	sum	mean
1							
2							
3							
4							
5	9.5	5.5					
6			24				
7	17	5	7				
8							
9	5	2					
10	7	3					
11		5					
12		3					
13			9	6	2.5		
14			12	6	3		
15	6.5	2.5					
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
	<u>total 6</u>	<u>5</u>	<u>3</u>	<u>1</u>			

**BASAL AREA SUMMARY FORM**

Allotment: Bevern 1110 Division Ranger District: \_\_\_\_\_ Season: Spring  
 Cluster: 6 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Recorded by: MCT, MS, PL, YGG

**MONTH AND YEAR PARKER DATA WERE RECORDED**

	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
	5	1955	5	1961	5	1970	5	1975
							5	1980

SPECIES*	EQV BSL	DMA**	Hits:	Basal Area (%)	95% Intervals:	Hits:	Basal Area (%)	95% Intervals:	Hits:	Basal Area (%)	95% Intervals:	Hits:	Basal Area (%)	95% Intervals:
<u>BOGR</u>	<u>4.58cm</u>		<u>0</u>	<u>0.0%</u>	( - - )	<u>0</u>	<u>0.0%</u>	( - - )	<u>4</u>	<u>.8%</u>	(.5% - 1.4%)	<u>2</u>	<u>.4%</u>	(.1% - .8%)
<u>BOGR</u>	<u>5.15cm</u>		<u>5</u>	<u>1.0%</u>	(.6% - 1.7%)	<u>2</u>	<u>.4%</u>	(.2% - .8%)	<u>14</u>	<u>2.7%</u>	(2.0% - 3.6%)	<u>8</u>	<u>1.6%</u>	(1.0% - 2.3%)
<u>HISTA</u>	<u>5.46cm</u>		<u>0</u>			<u>0</u>			<u>0</u>			<u>0</u>		
<u>MULTO</u>	<u>5.18cm</u>		<u>0</u>			<u>0</u>			<u>0</u>			<u>0</u>		
<u>SPCR</u>	<u>8.46cm</u>		<u>0</u>			<u>1</u>	<u>.3%</u>	(.1% - .4%)	<u>0</u>			<u>0</u>		

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Season: Spring  
 Forest: \_\_\_\_\_

Allotment: Bernalillo Watershed

Ranger District: \_\_\_\_\_

Cluster: 6

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: 5/27/92

Recorded by: WCT, MG, ALY GG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES #	EQV BSL DMA**	Mo. Year		Mo. Year		Mo. Year	
		Mo.	Year	Mo.	Year	Mo.	Year
		5	1955	5	1961	5	1970
						5	1975
						5	1980

<u>SIHY</u>	<u>✓</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
		Basal Area (%): ( <u>-</u> - <u>-</u> )				
		95% Intervals: ( <u>-</u> - <u>-</u> )				
<u>BOCM</u>	<u>4.90cm</u>	Hits: <u>0</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>0</u>
		Basal Area (%): <u>0.0%</u>	<u>0.4%</u>	<u>.2%</u>	<u>0.4%</u>	<u>0.0%</u>
		95% Intervals: ( <u>-</u> - <u>-</u> )	( <u>.1%</u> - <u>.8%</u> )	( <u>.1%</u> - <u>.4%</u> )	( <u>.1%</u> - <u>.8%</u> )	( <u>-</u> - <u>-</u> )
<u>BOHI</u>	<u>5.56cm</u>	Hits: <u>0</u>	<u>4</u>	<u>0</u>	<u>0</u>	<u>8</u>
		Basal Area (%): <u>0.0%</u>	<u>.9%</u>	<u>0.0%</u>	<u>0.0%</u>	<u>1.6%</u>
		95% Intervals: ( <u>-</u> - <u>-</u> )	( <u>.4%</u> - <u>1.4%</u> )	( <u>-</u> - <u>-</u> )	( <u>-</u> - <u>-</u> )	( <u>1.0%</u> - <u>2.3%</u> )
<u>ORHP</u>	<u>no meas. taken</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
		Basal Area (%): _____				
		95% Intervals: ( <u>-</u> - <u>-</u> )				
<u>ARIS</u>	<u>7.90cm</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
		Basal Area (%): _____				
		95% Intervals: ( <u>-</u> - <u>-</u> )				

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

**BASAL AREA SUMMARY FORM**

Allotment: Beverly Hills Antelope Ranger District: \_\_\_\_\_ Season: Spring  
 Cluster: 6 Number of Transects: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Recorded by: WICT, MGS, AL, V, GS

**MONTH AND YEAR PARKER DATA WERE RECORDED**

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
						<u>5</u>	<u>1980</u>

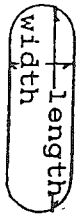

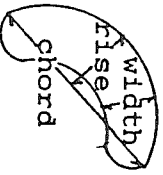

SPECIES *	EQV BSL	DIA **	Hits:	Basal Area (%)	95% Intervals	Hits:	Basal Area (%)	95% Intervals	Hits:	Basal Area (%)	95% Intervals	Hits:	Basal Area (%)	95% Intervals
<u>STCO</u>	<u>1.83</u>		<u>0</u>	( )	( )	<u>0</u>	( )	( )	<u>0</u>	( )	( )	<u>0</u>	( )	( )
<u>STNE</u>	<u>1.83</u>	<u>cm</u>	<u>0</u>	( )	( )	<u>0</u>	( )	( )	<u>0</u>	( )	( )	<u>0</u>	( )	( )

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

PLANT SIZE DATA FORM

Allotment: Beverly N S Species: POC Season: \_\_\_\_\_  
 Cluster: 6 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/22/69 Number of Transects: \_\_\_\_\_ Measured by: J. C. ...

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	 ... ELONGATED ... length width	 CIRCULAR basal dia	 ... ARC ... chord rise width	 RING dead width	longest dimension	sum	mean
1	6	1.5					
2	1.7	6					
3	1.8	1.9					
4			2				
5	9	3.5	7				
6	8	3					
7	8	3					
8							
9							
10							
11	10.5	11.5					
12							
13							
14	6	2					
15	6	3					
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
<i>Total</i>	9		5		1		

PLANT SIZE DATA FORM

Allotment: Beverly  
 Cluster: 6  
 Date of Plant Size Measurements: 5/27/92

Species: Bever  
 Ranger District: \_\_\_\_\_  
 Number of Transects: \_\_\_\_\_

Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_  
 Measured by: Mark Davis

PLANT SHAPE

	... ELONGATED ...				CIRCULAR		..... ARC .....			RING		RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	rise	width	width	longest dimension	sum	mean	
1														
2	10.5	4	10											
3	8	3												
4														
5														
6														
7														
8	6.5	2.5												
9														
10	6.5	4												
11	10	5.5												
12	4	2												
13	7.5	3												
14	5	3												
15			3.5											
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
Total	8		7											

PLANT SIZE DATA FORM

Allotment: Banur WS Species: Bokh' Season: \_\_\_\_\_  
 Cluster: 6 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_  
 Measured by: ACT D & C

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	 ... ELONGATED ... length width	 CIRCULAR basal dia	 ... ARC ... chord rise width	 RING width lead	longest dimension	sum	mean
1							
2		6					
3		4					
4			12	5	3		
5		4.5					
6		5.5					
7		4.5					
8	16	8					
9	8	3.5					
10			7				
11	10						
12	8	4.5					
13	13	4.5					
14			5				
15	6.5	3.5					
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
<b>Total</b>	<b>6</b>	<b>9</b>	<b>1</b>				



**PLANT SIZE DATA FORM**

Species: ARTE

Ranger District: \_\_\_\_\_

Number of Transects: \_\_\_\_\_

Allotment: BERM

Date of Plant Size Measurements: 5/27/92

Measured by: ALF MG

Season: \_\_\_\_\_

Forest: \_\_\_\_\_

PLANT SHAPE

	... ELONGATED ...				CIRCULAR			..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia	width	chord	rise	width	width	longest dimension	sum	mean			
1														
2	6.5	2.5	7.5											
3	1.2	3.5												
4			1.5											
5					2.2	11	6							
6														
7			3											
8			8											
9			1.5											
10	16	6												
11			11											
12														
13	12	4						3.5						
14	13.5	4												
15			3											
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
<b>Total</b>	<b>5</b>	<b>8</b>	<b>1</b>	<b>1</b>										



BASAL AREA SUMMARY FORM

Season: Spring  
 Forest: \_\_\_\_\_

Allotment: Beverly Hills Watershed

Cluster: 7 Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: 5/26/92 Recorded by: WCT, MG, LK, TG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES* BSL DIA**	Mo. Year		Mo. Year		Mo. Year		Mo. Year	
	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
							<u>5</u>	<u>1980</u>

SELY 2.94 Hits: 0 0 0 0 1  
 Basal Area (%): 0.0% 0.0% 0.0% 0.0% .1%  
 95% Intervals: ( - - - ) ( - - - ) ( - - - ) ( - - - ) ( 0.0% - .3% )

BOCK Hits: 0 0 0 0 0  
 Basal Area (%): \_\_\_\_\_  
 95% Intervals: ( - - - ) ( - - - ) ( - - - ) ( - - - ) ( - - - )

BOHI Hits: 0 0 0 0 0  
 Basal Area (%): \_\_\_\_\_  
 95% Intervals: ( - - - ) ( - - - ) ( - - - ) ( - - - ) ( - - - )

ORHY Hits: 0 0 0 0 0  
 Basal Area (%): \_\_\_\_\_  
 95% Intervals: ( - - - ) ( - - - ) ( - - - ) ( - - - ) ( - - - )

ARIS 7.44 Hits: 0 0 3 0 0  
 Basal Area (%): 0.0% 0.0% .7% 0.0% 0.0%  
 95% Intervals: ( - - - ) ( - - - ) ( .3% - 1.3% ) ( - - - ) ( - - - )

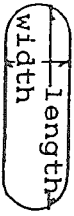

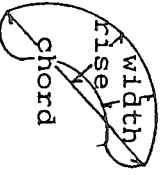

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).



PLANT SIZE DATA FORM

Allotment: BEAMA 1/10 Species: HETA Season: \_\_\_\_\_  
 Cluster: 7 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_  
 Measured by: WIG + AL

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...  length width	CIRCULAR  basal dia	..... ARC .....  chord rise width	RING  width	longest dimension	sum	mean
1		7					1
2		2					2
3		1.5					3
4	11	5					4
5		1					5
6		2					6
7		3					7
8		5					8
9		3					9
10	4.5	3					10
11	10	4					11
12		4.5					12
13		3.5					13
14		1					14
15		1.5					15
16		2.5					16
17		2.5					17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<i>Total</i>	<i>3</i>	<i>14</i>					<i>25</i>

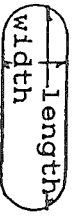

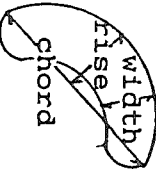
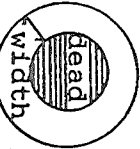
PLANT SIZE DATA FORM

Allotment: BENW 11/10 Species: BOER Season: \_\_\_\_\_  
 Cluster: 7 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MGT AL

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean
1							1
2		10					2
3		2.5					3
4	10	5.5					4
5		5					5
6		4.5					6
7	8						7
8		10					8
9	7.5	6					9
10		7.5					10
11			8				11
12		9		5.5			12
13		5					13
14		8					14
15		7.5					15
16	9	4					16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<b>Total</b>	<b>4</b>	<b>11</b>	<b>1</b>				

PLANT SIZE DATA FORM

Allotment: Bornville Species: BOGR Season: \_\_\_\_\_  
 Cluster: 7 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: WGA

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1	length 3.3 width 1.1	basal dia 5	chord 3.1.5 rise 12 width 4.5	width 4			1
2							2
3							3
4							4
5							5
6							6
7	length 1.1 width 4.5	basal dia 7.5	chord 1.6 rise 9 width 4.5				7
8							8
9	length 1.3 width 7.5	basal dia 7					9
10							10
11							11
12							12
13							13
14	length 2.0 width 4	basal dia 6.5					14
15	length 1.0 width 4.5						15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<b>Total</b>	<b>5</b>	<b>9</b>	<b>2</b>	<b>1</b>			

PLANT SIZE DATA FORM

Allotment: Reina 110 Species: SOCR Season: \_\_\_\_\_  
 Cluster: 7 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MISVAL

PLANT SHAPE

	... ELONGATED ...		CIRCULAR	..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	longest dimension	sum	mean
1	10	5.5								
2			6							1
3	21	10	6.5							2
4			8							3
5	18	8	7							4
6			5							5
7			13							6
8			4.5							7
9			7							8
10			32	15	7					9
11										10
12										11
13	14	6								12
14			10							13
15	14	3								14
16										15
17										16
18										17
19										18
20										19
21										20
22										21
23										22
24										23
25										24
<b>Total</b>	<b>5</b>	<b>9</b>								<b>25</b>



PLANT SIZE DATA FORM

Allotment: Burnsville Species: MLTD Season: \_\_\_\_\_  
 Cluster: 7 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MGS & ML

No.	PLANT SHAPE				RUNNING MEANS			
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean	
1	length 10 width 3.5	basal dia	chord	rise 10 width 3			1	
2	length 11.5 width 3.5	basal dia	chord	rise 10 width 3			2	
3	length 10 width 4.5	basal dia	chord	rise 10 width 3			3	
4		basal dia 4	chord	rise 10 width 3			4	
5		basal dia 4	chord 22.5	rise 10 width 3			5	
6		basal dia 4	chord 35.5	rise 15 width 2.5			6	
7		basal dia 4.5	chord 27	rise 10 width 3			7	
8		basal dia 4.5	chord 27	rise 10 width 3			8	
9		basal dia 4.5	chord 27	rise 10 width 3			9	
10		basal dia 4.5	chord 27	rise 10 width 3			10	
11	length 87 width 14	basal dia 7	chord	rise 10 width 3			11	
12	length 17 width 4	basal dia 7	chord	rise 10 width 3			12	
13	length 17 width 4	basal dia 7	chord	rise 10 width 3			13	
14	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			14	
15	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			15	
16	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			16	
17	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			17	
18	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			18	
19	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			19	
20	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			20	
21	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			21	
22	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			22	
23	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			23	
24	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			24	
25	length 14 width 5.5	basal dia 7	chord	rise 10 width 3			25	
<b>Total</b>					6	3	3	

BASAL AREA SUMMARY FORM

Allotment: Bernville Watershed

Ranger District: \_\_\_\_\_

Season: SPRING

Cluster: 8

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: 5/26/92

Recorded by: MCTMG, PL & GG

MONTH AND YEAR PARKER DATA WERE RECORDED

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
5	1955	5	1961	5	1970	5	1975
						5	1980

SPECIES*	DIA**	Hits:	Basal Area (%)	95% Intervals:	Hits:	Basal Area (%)	95% Intervals:	Hits:	Basal Area (%)	95% Intervals:	Hits:	Basal Area (%)	95% Intervals:
BOER	4.63cm	3	.6%	(.2% - 1.2%)	1	.2%	(.1% - .4%)	5	.9%	(.5% - 1.5%)	10	1.8%	(1.2% - 2.5%)
BOGR	7.69cm	5	1.2%	(.7% - 1.8%)	3	.7%	(.3% - 1.3%)	7	1.6%	(1.1% - 2.3%)	9	2.0%	(1.4% - 2.7%)
HIJA	2.31cm	0	0.0%	( - - )	0	0.0%	( - - )	0	0.0%	( - - )	1	.1%	(.0% - .3%)
MIJO	5.94cm	11	2.2%	(1.5% - 2.9%)	11	2.2%	(1.5% - 2.9%)	6	1.2%	(.7% - 1.9%)	2	.4%	(.2% - .8%)
SPCR	3.90cm	0	0.0%	( - - )	0	0.0%	( - - )	0	0.0%	( - - )	1	.2%	(.0% - .4%)

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

**BASAL AREA SUMMARY FORM**

Allotment: Berwyn Lillo Watershed

Ranger District: \_\_\_\_\_

Season: Spring  
Forest: \_\_\_\_\_

Cluster: 8

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: 5/26/92

Recorded by: WCT/MG ALV GG

**MONTH AND YEAR PARKER DATA WERE RECORDED**

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>	<u>5</u>	<u>1980</u>

SPECIES\* BSL  
DMA\*\*

<u>SIHY</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____	_____
<u>BOCL</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____	_____
<u>BOHI</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____	_____
<u>ORHP</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____	_____
<u>ARIS</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____	_____

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Season: Spring  
 Forest: \_\_\_\_\_

Allotment: Bearwillo Watershed Ranger District: \_\_\_\_\_  
 Cluster: 8 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Recorded by: MCT, MG, AAT, GG

MONTH AND YEAR PARKER DATA WERE RECORDED

SPECIES *	EQV BSL	DIA **	Mo. Year		Mo. Year		Mo. Year		Mo. Year			
			Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year		
			<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>	<u>5</u>	<u>1980</u>

<u>STCO</u>	<u>✓</u>		Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
			Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____
			95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____
<u>STNE</u>	<u>✓</u>		Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
			Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____
			95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____
			Hits: _____	_____	_____	_____	_____	_____	_____	_____
			Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____
			95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____
			Hits: _____	_____	_____	_____	_____	_____	_____	_____
			Basal Area (%): _____	_____	_____	_____	_____	_____	_____	_____
			95% Intervals: _____	_____	_____	_____	_____	_____	_____	_____

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

PLANT SIZE DATA FORM

Allotment: BERRM 1/16 Species: BOER Season: \_\_\_\_\_  
 Cluster: 8 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MSWML

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	 ... ELONGATED ... length width	 CIRCULAR basal dia	 ... ARC ... chord rise width width	 RING basal dia width	longest dimension	sum	mean
1	8	4					
2	7	2					
3			3				
4							
5	4	3	8	5	3		
6							
7	7	3					
8	12	6					
9			9	5	2.5		
10							
11							
12							
13	6.5	6					
14	4.5	2.5					
15							
16							
17	17.5	4.5					
18							
19							
20							
21							
22							
23							
24							
25							
	<u>7</u>	<u>7</u>	<u>8</u>	<u>2</u>			

Form 2.

PLANT SIZE DATA FORM

Allotment: Brown Hill Species: HETA Season: \_\_\_\_\_  
 Cluster: 8 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/31/92 Number of Transsects: \_\_\_\_\_ Measured by: MCAAL

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	 ... ELONGATED ... length width	 CIRCULAR basal dia	 ..... ARC ..... chord rise width width	 RING basal dia width	longest dimension	sum	mean
1							
2	3.5	1.5					
3							
4							
5	4.5	3					
6							
7							
8							
9							
10							
11							
12							
13							
14	2.5	1					
15	5	1.5					
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
<u>Total</u>	<u>4</u>	<u>13</u>					

PLANT SIZE DATA FORM

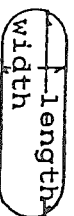

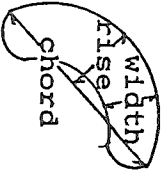
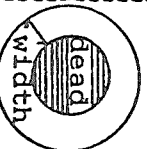
Allotment: BERRM 1110 Species: BOGR Season: \_\_\_\_\_  
 Cluster: 8 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MST + J/L

PLANT SHAPE

No.	... ELONGATED ...		CIRCULAR		..... ARC .....			RING		RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	width	longest dimension	sum	mean	
1	20	7										
2												
3			6	29	17	4.5						
4	23	5										
5			4									
6	8	5.5										
7												
8	10	4		19	12.5	5						
9		6										
10												
11				12	7	3						
12	16	4		40	26	5						
13												
14	22	7	11									
15			6									
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
Total	7		4									

PLANT SIZE DATA FORM

Allotment: Berawa/1110 Species: MUTO Season: \_\_\_\_\_  
 Cluster: 8 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: M/S + AL

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1							1
2	16	3					2
3	13.5	2.5					3
4		4.5					4
5							5
6							6
7							7
8			19	15	3.5		8
9	18.5	3.5					9
10			24	16.5	4.5		10
11		3					11
12	12	3.5					12
13		3					13
14			25	15	6		14
15	16	3					15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
<b>Total</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>3</b>			<b>25</b>



**BASAL AREA SUMMARY FORM**

Allotment: Bennett 1110

Ranger District: \_\_\_\_\_

Season: Spring

Cluster: 9

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

5/27/92

Recorded by: \_\_\_\_\_

MCT, MGS, JLR, CG

**MONTH AND YEAR PARKER DATA WERE RECORDED**

SPECIES * BSL DMA**	MO. Year		MO. Year		MO. Year		MO. Year	
	Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
<u>BOER</u>	<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>

<u>BOER</u>	<u>3.83</u> cm	Hits: <u>4</u>	<u>1.0%</u>	<u>6</u>	<u>1.5%</u>	<u>10</u>	<u>1.5%</u>	<u>5</u>	<u>1.8%</u>
	Basal Area (%):	<u>.7%</u>	<u>(.3% - 1.2%)</u>	<u>1.0%</u>	<u>(.5% - 1.5%)</u>	<u>1.5%</u>	<u>(1.0% - 2.2%)</u>	<u>2.2%</u>	<u>(.8% - 3.0%)</u>
	95% Intervals:	<u>(.3% - 1.2%)</u>	<u>(.3% - 1.2%)</u>	<u>(.5% - 1.5%)</u>	<u>(.5% - 1.5%)</u>	<u>(1.0% - 2.2%)</u>	<u>(1.0% - 2.2%)</u>	<u>(1.5% - 3.0%)</u>	<u>(1.4% - 1.4%)</u>
<u>BOER</u>	<u>6.59</u> cm	Hits: <u>4</u>	<u>1.9%</u>	<u>9</u>	<u>1.6%</u>	<u>16</u>	<u>1.5%</u>	<u>12</u>	<u>2.5%</u>
	Basal Area (%):	<u>.9%</u>	<u>(.4% - 1.5%)</u>	<u>1.9%</u>	<u>(1.3% - 2.6%)</u>	<u>3.3%</u>	<u>(2.4% - 4.2%)</u>	<u>3.1%</u>	<u>(1.8% - 3.3%)</u>
	95% Intervals:	<u>(.4% - 1.5%)</u>	<u>(.4% - 1.5%)</u>	<u>(1.3% - 2.6%)</u>	<u>(1.3% - 2.6%)</u>	<u>(2.4% - 4.2%)</u>	<u>(2.4% - 4.2%)</u>	<u>(1.8% - 3.3%)</u>	<u>(1.8% - 3.3%)</u>
<u>HITH</u>	<u>2.20</u> cm	Hits: <u>1</u>	<u>.1%</u>	<u>1</u>	<u>.4%</u>	<u>3</u>	<u>.1%</u>	<u>1</u>	<u>.1%</u>
	Basal Area (%):	<u>.1%</u>	<u>(0.0% - .3%)</u>	<u>.1%</u>	<u>(0.0% - .3%)</u>	<u>.4%</u>	<u>(.1% - .9%)</u>	<u>.1%</u>	<u>(0.0% - .3%)</u>
	95% Intervals:	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(.1% - .9%)</u>	<u>(.1% - .9%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>
<u>MUTO</u>	<u>4.57</u> cm	Hits: <u>3</u>	<u>.6%</u>	<u>3</u>	<u>.2%</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>.2%</u>
	Basal Area (%):	<u>.6%</u>	<u>(.2% - 1.2%)</u>	<u>.6%</u>	<u>(.2% - 1.2%)</u>	<u>.2%</u>	<u>(.1% - .4%)</u>	<u>0</u>	<u>(.1% - .4%)</u>
	95% Intervals:	<u>(.2% - 1.2%)</u>	<u>(.2% - 1.2%)</u>	<u>(.2% - 1.2%)</u>	<u>(.2% - 1.2%)</u>	<u>(.1% - .4%)</u>	<u>(.1% - .4%)</u>	<u>(.1% - .4%)</u>	<u>(.1% - .4%)</u>
<u>SPCR</u>	<u>3.90</u> cm	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%):	<u>0</u>	<u>(0.0% - .3%)</u>	<u>0</u>	<u>(0.0% - .3%)</u>	<u>0</u>	<u>(0.0% - .3%)</u>	<u>0</u>	<u>(0.0% - .3%)</u>
	95% Intervals:	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>	<u>(0.0% - .3%)</u>

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

**BASAL AREA SUMMARY FORM**

Allotment: Beverly's Watershed

Ranger District: \_\_\_\_\_

Season: Spring

Cluster: 9

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: 5/27/92

Recorded by: MCT, MS, H&AGS

**MONTH AND YEAR PARKER DATA WERE RECORDED**

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
						<u>5</u>	<u>1980</u>

SPECIES \* MA\*\*

EQV BSL

<u>SEHY</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____
<u>BOCH</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____
<u>BOHI</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____
<u>ORHY</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____
<u>ARIS</u>	Hits: <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Basal Area (%): _____	_____	_____	_____	_____
	95% Intervals: _____	_____	_____	_____	_____

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

BASAL AREA SUMMARY FORM

Allotment: Bornville Watershed

Ranger District: \_\_\_\_\_

Season: Spring

Cluster: 9

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: 5/27/92

Recorded by: MCT, MS, AL & GG

MONTH AND YEAR PARKER DATA WERE RECORDED

Mo.	Year	Mo.	Year	Mo.	Year	Mo.	Year
<u>5</u>	<u>1955</u>	<u>5</u>	<u>1961</u>	<u>5</u>	<u>1970</u>	<u>5</u>	<u>1975</u>
						<u>5</u>	<u>1980</u>

SPECIES\* MA\*\*

EQV  
BSL

STCO

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

STVE

Hits: 0

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

\_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

\_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area (%): \_\_\_\_\_

95% Intervals: (\_\_\_\_ - \_\_\_\_)

\_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area (%): \_\_\_\_\_

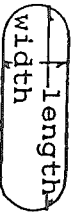

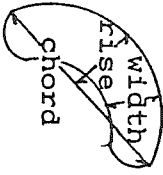

95% Intervals: (\_\_\_\_ - \_\_\_\_)

\*If distribution of a species is highly contagious, describe its general distribution outside the cluster on the back of this form under REMARKS.

\*\*Equivalent mean basal diameter (cm).

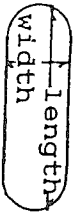

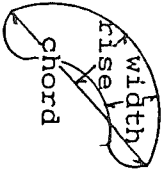
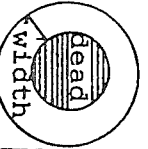
**PLANT SIZE DATA FORM**

Allotment: Devn W/S Species: Rox Season: \_\_\_\_\_  
 Cluster: 7 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_  
 Measured by: W.C.T. & G.C.

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1	6						1
2	5						2
3	4	4					3
4		2.5					4
5	0.5						5
6	6						6
7							7
8	5.5						8
9	6						9
10	6.5	2					10
11			6				10
12		4					11
13		2.8					12
14		2.5					13
15		4.5					14
16							15
17							16
18							17
19							18
20							19
21							20
22							21
23							22
24							23
25							24
<b>Total</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>			<b>25</b>

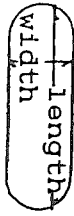
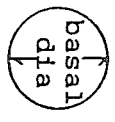
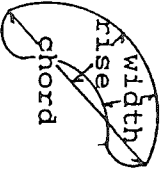

PLANT SIZE DATA FORM

Allotment: Forest W/S Species: \_\_\_\_\_  
 Cluster: 9 Ranger District: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/11/92 Number of Transects: \_\_\_\_\_  
 Measured by: \_\_\_\_\_ Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...  length width	CIRCULAR  basal dia	..... ARC .....  chord rise width	RING  width	longest dimension	sum	mean
1							1
2		1.5					2
3		3					3
4		1.5					4
5	5	3					5
6		1.5					6
7	4.5	1.5					7
8		1					8
9							9
10	2.5	1.5					10
11							11
12	1						12
13							13
14							14
15							15
16		2.5					16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25	<u>total 4</u>	<u>12</u>					<u>25</u>

PLANT SIZE DATA FORM

Allotment: Baras Species: Moro Season: \_\_\_\_\_  
 Cluster: 9 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_  
 Measured by: M. A. S.

	PLANT SHAPE				RUNNING MEANS		
	 ... ELONGATED ... length width	 CIRCULAR basal dia	 ..... ARC ..... chord rise width	 RING width	longest dimension	sum	mean
1	6	3	13	5	3	1	
2						2	
3						3	
4						4	
5						5	
6	12	4.5				6	
7	7	4				7	
8						8	
9		2.5				9	
10			13	5	2.5	10	
11		4				11	
12			7	5.5	2.5	12	
13		5				13	
14	10	1				14	
15			10	2		15	
16						16	
17						17	
18						18	
19						19	
20						20	
21						21	
22						22	
23						23	
24						24	
25						25	
<b>Total</b>	<b>5</b>	<b>6</b>		<b>4</b>			

PLANT SIZE DATA FORM

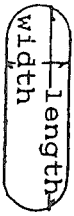
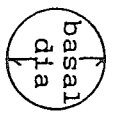
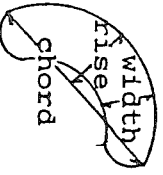
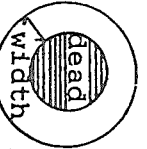
— PUGR MIDJ  
 — PUGR MIDJ  
 — PUGR MIDJ

Allotment: PUGR  
 Cluster: 9  
 Date of Plant Size Measurements: 5/27/92

Species: PUGR  
 Ranger District: \_\_\_\_\_  
 Number of Transects: \_\_\_\_\_

Measured by: MSG AR

Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1	length 7	basal dia 9					1
2							2
3	length 11	basal dia 5.5					3
4							4
5		basal dia 5					5
6		basal dia 4.5					6
7	length 7						7
8							8
9							9
10							10
11			chord 12	width 15			11
12			chord 4	width 9			12
13			chord 4.5	width 10			13
14							14
15		basal dia 16					15
16							16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25
Total	3	6	3	3			

PLANT SIZE DATA FORM

Allotment: Bombilla Species: SPER Season: \_\_\_\_\_  
 Cluster: 8 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/62 Number of Transects: \_\_\_\_\_ Measured by: MG & AL

PLANT SHAPE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PLANT SHAPE				RUNNING MEANS		
	 ... ELONGATED ... length width	 CIRCULAR basal dia	 ... ARC ... width rise chord	 RING width	longest dimension	sum	mean
1		4					
2		1.5					
3		2					
4		1.5					
5	4.5	1.5					
6			12	5	2		
7							
8	10	5.5					
9		3.5					
10		3					
11		4.5					
12		12					
13		8					
14	7.5	1.5					
15			15	7.5	3		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
<u>Total</u>	<u>3</u>	<u>10</u>	<u>2</u>				





BASAL AREA SUMMARY FORM

Allotment: Bekwa 116 Ranger District: Somerset Season: Autumn

Cluster: \_\_\_\_\_ Number of Transects: 1 Forest: Cibola

Date of Plant Size Measurements: Oct 4 1991 Recorded by: John Cook

SPECIES EQV BSL DIA MONTH AND YEAR PARKER DATA WERE RECORDED

Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr

WUDO Hits: 2 1 4 5 3 3 3 3 5 6 7  
 Basal Area: .5% .2% .9% 1.1% .7% .7% .7% .7% 1.1% 1.3% 1.5%  
 95% intervals: (.2%-.8%) (.1%-.4%) (.4%-1.5%) (.6%-1.7%) (.3%-1.3%) (.3%-1.3%) (.3%-1.3%) (.3%-1.3%) (.6%-1.7%) (.8%-2.0%) (1.0%-2.2%)

SIHY Hits: 0 0 0 0 0 0 0 0 0 0 0  
 Basal Area: \_\_\_\_\_  
 95% intervals: \_\_\_\_\_

SPCR Hits: 21 4 5 5 4 2 3 6 4 4 4  
 Basal Area: 4.91cm .3% .8% .9% .9% .8% .4% 1.1% .8% .8% .8%  
 95% intervals: (2.8%-4.6%) (.3%-1.4%) (.5%-1.5%) (.5%-1.5%) (.3%-1.4%) (.1%-1.8%) (.2%-1.2%) (.6%-1.7%) (.3%-1.4%) (.3%-1.4%) (.3%-1.4%)

STIPA Hits: 0 0 0 0 0 0 0 0 0 0 0  
 Basal Area: \_\_\_\_\_  
 95% intervals: \_\_\_\_\_

Hits: \_\_\_\_\_  
 Basal Area: \_\_\_\_\_  
 95% intervals: \_\_\_\_\_

Hits: \_\_\_\_\_  
 Basal Area: \_\_\_\_\_  
 95% intervals: \_\_\_\_\_

Hits: \_\_\_\_\_  
 Basal Area: \_\_\_\_\_  
 95% intervals: \_\_\_\_\_

Hits: \_\_\_\_\_  
 Basal Area: \_\_\_\_\_  
 95% intervals: \_\_\_\_\_

Hits: \_\_\_\_\_  
 Basal Area: \_\_\_\_\_  
 95% intervals: \_\_\_\_\_

*J*

PLANT SIZE DATA FORM

Species: Muto

Ranger District: Sandera

Season: Autumn

Forest: Cibola

Allotment: Bernalillo

Cluster: 1

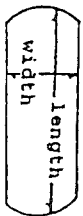
Number of Transects: 1

Date of Plant Size Measurements: Oct 4 '91

Measured by: Solun Cook

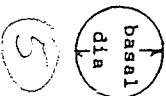
PLANT SHAPE

... ELONGATED ...



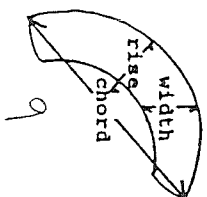
*12*

CIRCULAR



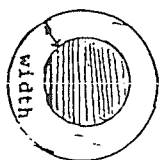
*5*

ARC



*9*

RING



No.	ELONGATED		CIRCULAR		ARC			RING	
	length	width	basal dia	chord	rise	width	width	width	
1									
2	10.5	2.0		30.9	19.2	3.0			
3	13.9	2.8							
4	8.8	2.5							
5			7.0						
6				10.5	7.6	3.0			
7	36.0	2.0							
8				25.0	12.5	3.0			
9				44.0	33.0	4.0			
10				25.0	19.0	3.0			
11			12.0						
12	11.0	4.0							
13				39.0	18.4	3.5			
14	11.5	4.5							
15				72.0	25.5	4.0			
16			6.0						
17			2.5						
18			15.0						
19				17.0	21.0	4.0			
20	18.0	3.0							
21	8.0	3.0							
22	5.2	2.5							
23				26.5	16.0	4.5			
24	35.0	3.5							
25	8.0	4.0							

RUNNING MEANS

No.	longest dimension	sum	mean
1			
2	30.9		
3	10.5		
4	13.9		
5	8.8		
6	7.0		
7	10.5		
8	26.0		
9	25.0		
10	44.0		
11	25.0		
12	12.0		
13	11.0		
14	39.0		
15	11.5		
16	72.0		
17	6.0		
18	2.5		
19	15.0		
20	17.0		
21	18.0		
22	8.0		
23	5.2		
24	26.5		
25	35.0		
26	8.0		
27	25.0		

**7**

PLANT SIZE DATA FORM

Species: Boer

Season: Autumn

Allotment: Bernalillo

Ranger District: Sandia

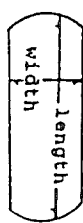
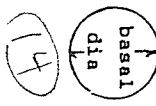
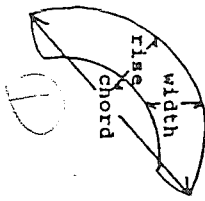
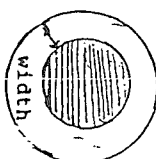
Forest: Cibola

Cluster: 1

Number of Transects: 1

Date of Plant Size Measurements: Oct 4 '91

Measured by: Sohu Cook

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...  length width	CIRCULAR  basal dia	..... ARC .....  chord rise width	... RING ...  width	longest dimension	sum	mean
1		7.0			7.0		
2		5.0	11.0	17.5	2.5	5.0	17.5
3		2.0			2.0		
4		4.5			4.5		
5		3.0			3.0		
6		16.0			16.0		
7		8.0			8.0		
8		2.0			2.0		
9		3.0			3.0		
10		4.5			4.5		
11		9.3			9.3		
12		3.0			3.0		
13		7.0			7.0		
14		2.5			2.5		
15		4.0			4.0		
16		8.3			8.3		
17		3.3			3.3		
18		4.0			4.0		
19		2.0			2.0		
20		2.5			2.5		
20		4.7			4.7		

2

PLANT SIZE DATA FORM

Species: Spar

Season: Autumn

Ranger District: Saudia

Forest: Cibola

Allotment: Bernsillo

Number of Transects: 1

Cluster: 1

Date of Plant Size Measurements: Oct 4 '91

Measured by: John Cook

PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			RING
	length	width	basal dia	chord	rise	width	width	
1								
2			3.0	16.5	9.0	2.5		
3			14.5					
4			4.0					
5			4.0					
6			3.0					
7	9.5	3.0						
8	7.4	4.5						
9	12.5	2.0						
10	5.8	1.2						
11			4.0					
12	10.0	1.5						
13			8.5					
14			4.0					
15			8.5					
16			2.0					
17			3.5					
18			4.0					
19								
20								


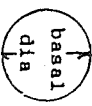
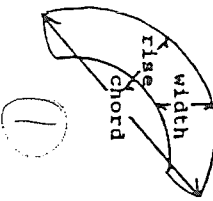
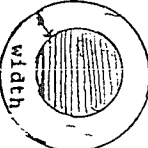
RUNNING MEANS

	longest dimension	sum	mean
1	16.5		
2	3.0		
3	14.5		
4	4.0		
5	4.0		
6	3.0		
7	9.5		
8	7.4		
9	12.5		
10	5.8		
11	4.0		
12	10.0		
13	8.5		
14	4.0		
15	8.5		
16	2.0		
17	3.5		
18	4.0		
19			
20			



PLANT SIZE DATA FORM

Allotment: Bernalillo Species: Aristida Season: Autumn  
 Cluster: 1 Number of Transects: \_\_\_\_\_ Ranger District: Sandia Forest: Alcala  
 Date of Plant Size Measurements: Oct 4 91 Measured by: Solomon Cook

	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	Longest dimension	sum	mean
1	 length width	 basal dia	 width rise chord	 width	2.0		
2		4.3			4.3		
3		1.5			1.5		
4	15.0	5.0			15.0		
5		5.0			5.0		
6	10.5	2.5			10.5		
7		1.5			1.5		
8		3.8			3.8		
9		2.5			2.5		
10		14.0			14.0		
11		4.5			4.5		
12		8.0			8.0		
13		5.2			5.2		
14			11.0	11.0	3.0		
15		5.5			5.5		
16		5.5			5.5		
17							
18							
19							
20							







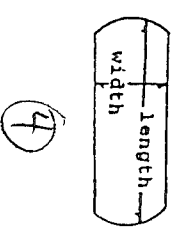
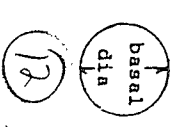
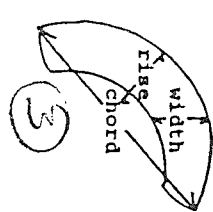
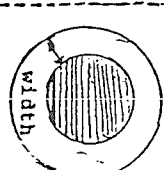




**2**

PLANT SIZE DATA FORM

Allotment: Bernalillo Species: Spr Season: Autumn  
 Cluster: 2 Ranger District: Sandia Forest: Cibola  
 Date of Plant Size Measurements: Oct 4 '91 Number of Transects: 1 Measured by: John Cook

	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean
1							
2	3.7	1.6	1.6		3.7		
3			12.5	7.5	3.0	12.5	
4		3.0			3.0		
5		2.0			2.0		
6		4.0			4.0		
7		3.4			3.4		
8		5.5			5.5		
9		4.2			4.2		
10	11.5	3.0			11.5		
11	13.0	3.5			13.0		
12			6.5	3.3	2.5	6.5	
13		4.5			4.5		
14		6.1			6.1		
15		4.7			4.7		
16			12.0	8.3	2.7	12.0	
17		4.0			4.0		
18	5.8	2.0			5.8		
19		4.2			4.2		
20							

2

PLANT SIZE DATA FORM

Species: Muto

Season: Autumn

Ranger District: Sandiac

Forest: Abola

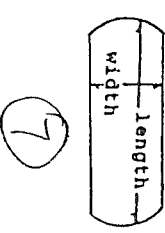
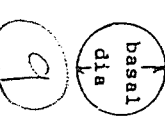
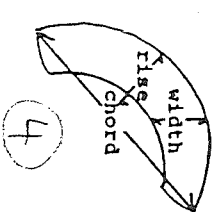
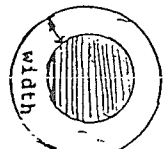
Allotment: Bernalillo

Cluster: 2

Number of Transects: 1

Date of Plant Size Measurements: Oct 4 '91

Measured by: Sohn Cook

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	.. RING ..	Longest dimension	sum	mean
1	 length width	 basal dia	 chord rise width	 width	18.0		1
2	18.0 2.0	4.5			4.5		2
3	12.0 3.0				12.0		3
4	8.5 2.5				8.5		4
5		2.2			2.2		5
6		2.2			2.2		6
7			25.3 9.0 3.0		25.3		7
8	14.5 2.5				14.5		8
9		2.3			2.3		9
10			26.5 9.5 3.0		26.5		10
11		4.1			4.1		11
12		5.5			5.5		12
13		1.8			1.8		13
14	19.5 2.3				19.5		14
15		4.7			4.7		15
16	11.0 2.2				11.0		16
17	9.5 2.6				9.5		17
18			34.0 11.0 2.5		34.0		18
19		2.2			2.2		19
20			22.5 5.0 2.0		22.5		20

2

PLANT SIZE DATA FORM

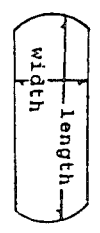
Species: Hija Season: Autumn  
 Ranger District: Sanduse Forest: Sabela

Allotment: Berna/1110  
 Cluster: 2

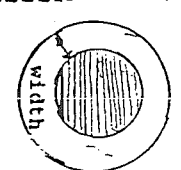
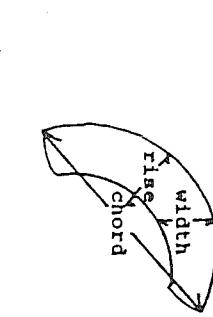
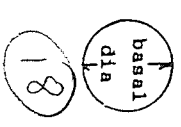
Date of Plant Size Measurements: Oct. 4, 1991 Number of Transects: \_\_\_\_\_ Measured by: Saku Cook

PLANT SHAPE

No.	ELONGATED	CIRCULAR	ARC			RING	RUNNING MEANS		
			chord	rise	width		longest dimension	sum	mean
1	3.1	2.1					3.1		
2		1.0					1.0		
3		1.3					1.3		
4		4.0					4.0		
5		1.8					1.8		
6		1.1					1.1		
7	4.7	2.5					4.7		
8		2.2					2.2		
9	3.0	1.5					3.0		
10		1.0					1.0		
11		3.0					3.0		
12		2.2					2.2		
13		2.0					2.0		
14		1.2					1.2		
15		1.8					1.8		
16		2.0					2.0		
17		2.0					2.0		
18		4.5					4.5		
19		1.8					1.8		
20		1.8					1.8		
21		2.3					2.3		



(3)







**3**

PLANT SIZE DATA FORM

Species: Hix

Ranger District: Sandra

Season: Autumn

Forest: Cobala

Allotment: Bernalillo

Cluster: 3

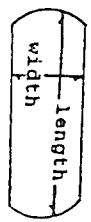

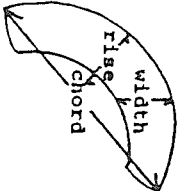
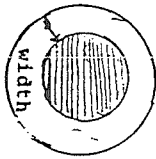
Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

Oct 4 91

Measured by: \_\_\_\_\_

Tobin Cook

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PLANT SHAPE				longest dimension	sum	mean
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING... 			
1		basal dia	chord	width	2.0		1
2	4.6	3.0			4.6		2
3		1.7			1.7		3
4		2.6			2.6		4
5		3.0			3.0		5
6		2.6			2.6		6
7		3.2			3.2		7
8		1.4			1.4		8
9	7.6	2.2			7.6		9
10	6.5	1.8			6.5		10
11		1.8			1.8		11
12		1.2			1.2		12
13		.4			.4		13
14		2.0			2.0		14
15		2.0			2.0		15
16		5.1			5.1		16
17		3.4			3.4		17
18		1.3			1.3		18
19		2.0			2.0		19
20		1.2			1.2		20



**3**

PLANT SIZE DATA FORM

Species: Sp

Ranger District: Sandja

Season: Autumn

Forest: Cabola

Allotment: Bernalillo

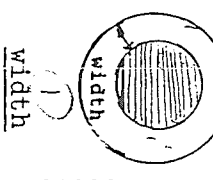
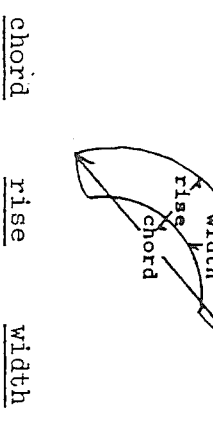
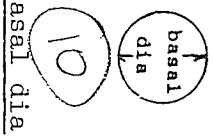
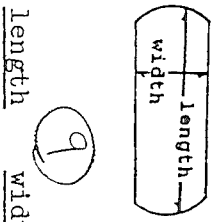
Cluster: 3

Number of Transects: 4

Date of Plant Size Measurements: Oct 4 91

Measured by: John Cook

No.	PLANT SHAPE				longest dimension	sum	mean
	ELONGATED	CIRCULAR	ARC	RING			
1	5.4	2.2			5.4		1
2				1.1	1.1		2
3	5.3	2.6			5.3		3
4		1.6			1.6		4
5		2.8			2.8		5
6	9.6	3.6			9.6		6
7		2.0			2.0		7
8	6.8	1.8			6.8		8
9	7.1	2.5			7.1		9
10		2.0			2.0		10
11	4.8	1.5			4.8		11
12		2.2			2.2		12
13	6.5	2.3			6.5		13
14	5.5	2.5			5.5		14
15		1.8			1.8		15
16		4.0			4.0		16
17		3.5			3.5		17
18	7.0	3.0			7.0		18
19		2.8			2.8		19
20		.8			.8		20



RUNNING MEANS

3

PLANT SIZE DATA FORM

Species: Mtbs

Ranger District: Sandiana

Season: Autumn

Forest: Cibola

Allotment: Berna 1110

Cluster: 3

Number of Transects: Oct 4, 91

Date of Plant Size Measurements:

Oct 4, 91

Measured by: John Cook

John Cook

No.	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	Longest dimension	sum	mean
1	length 10, width	basal dia 5	chord 57.5, rise 18.3, width 3.0	width	57.5		
2	8.0, 3.5	7.5			7.5		
3	8.0, 3.5				8.0		
4	8.0, 2.5		36.0, 20.0, 3.0		36.0		
5	12.6, 3.2				12.6		
6	16.4, 2.5				16.4		
7	12.4, 3.0				12.4		
8	18.4, 2.0				18.4		
9	10.6, 4.0				10.6		
10	11.6, 3.5				11.6		
11	10.4, 3.0				10.4		
12	17.0, 2.0				17.0		
13	4.0, 4.2				4.0		
14	50.8, 18.2, 2.5				50.8		
15	4.0, 4.7				4.0		
16	4.0, 4.7				4.0		
17	4.0, 4.7				4.0		
18	4.0, 4.7				4.0		
19	4.0, 4.7				4.0		
20	4.0, 4.7				4.0		

3

PLANT SIZE DATA FORM

Species: Aristida

Ranger District: Sandbar

Season: Autumn

Forest: Cibola

Allotment: Berna 1/110

Cluster: 3

Number of Transects: Oct 4 '91

Date of Plant Size Measurements: Oct 4 '91

Measured by: John Cook

No.	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean
1	7.7	2.5			7.7		1
2		7.7			7.7		2
3		3.8			3.8		3
4	23.3	9.0			23.3		4
5		2.5			2.5		5
6		4.5			4.5		6
7	6.5	2.5			6.5		7
8			10.6	6.5	10.6		8
9		4.8			4.8		9
10		2.6			2.6		10
11		3.4			3.4		11
12		5.3			5.3		12
13		3.5			3.5		13
14			10.0	9.2	10.0		14
15		5.8			5.8		15
16		2.4			2.4		16
17		6.8			6.8		17
18							18
19							19
20							20

**3**

PLANT SIZE DATA FORM

Species: Boer

Ranger District: Sandya

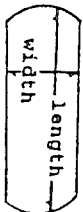
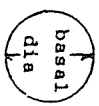
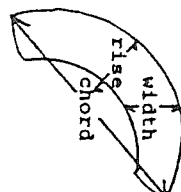
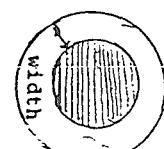
Season: Autumn

Forest: Chola

Cluster: 3 Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: Oct 4 '91 Measured by: John Cook

PLANT SHAPE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	... ELONGATED ...	CIRCULAR	..... ARC .....			RING...
	 length width	 basal dia	 chord rise width	 width		
1	11.6	6.5				
2	8.0	3.0				
3	6.4	2.0				
4	6.0	2.5				
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

RUNNING MEANS

Longest dimension	sum	mean
1	1.2	
2	4.4	
3	3.8	
4	2.4	
5	4.1	
6	6.5	
7	11.6	
8	8.0	
9	6.4	
10	6.0	
11	4.0	
12	6.3	
13	11.8	
14	7.3	
15	8.5	
16	4.0	
17	4.0	
18	3.0	
19	5.2	
20	3.0	







PLANT SIZE DATA FORM

Allotment: Banailillo

Ranger District: Sandias

Season: Autumn

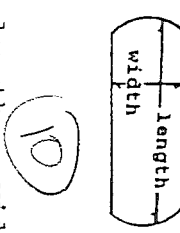
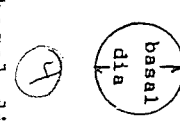
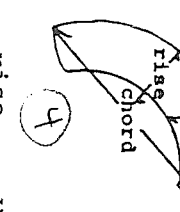
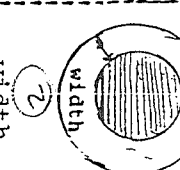
Cluster: 7

Number of Transects: 1

Forest: Csola

Date of Plant Size Measurements: Oct 4 '91

Measured by: John Cook

No.	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean
1					2.5		
2					1.5		
3					8.2		
4					25.0		
5	22.0	3.0			22.0		
6	24.0	3.0			24.0		
7	7.3	8.8			7.3		
8	4.6	1.3			4.6		
9		1.2			1.2		
10	26.0	1.3			26.0		
11	9.0	2.2			9.0		
12					21.0		
13	21.0	5.0			21.0		
14	16.0	5.0			16.0		
15	22.0	3.0			22.0		
16					14.0		
17		3.0			3.0		
18		6.0			6.0		
19	26.5	3.0			26.5		
20		9.0			9.0		



PLANT SIZE DATA FORM

Species: Muto

Season: Autumn

Ranger District: Sandera

Forest: Cibola

Cluster: 7

Number of Transects: Oct 4 81

Date of Plant Size Measurements: Oct 4 81

Measured by: John Cook

PLANT SHAPE

	ELONGATED	CIRCULAR	ARC	RING
	length width	basal dia	chord rise width	width
1	27.0 2.0			
2		2.0		
3		3.0		
4		4.0		
5			21.8 9.5 3.0	
6		2.2		
7	9.0 2.0	2.2		
8				
9	6.0 2.0			
10	9.0 1.5			
11		4.0		
12		3.0		
13	19.0 2.0			
14			24.0 9.7 3.0	
15		2.5		
16		9.0		
17	7.5 1.5			
18		8.0		
19		4.5		
20			19.0 15.0 4.0	

RUNNING MEANS

	longest dimension	sum	mean
1	27.0		
2	7.0		
3	3.0		
4	4.0		
5	21.8		
6	2.2		
7	9.0		
8	2.2		
9	6.0		
10	9.0		
11	4.0		
12	3.0		
13	19.0		
14	24.0		
15	2.5		
16	9.0		
17	7.5		
18	8.0		
19	4.5		
20	19.0		

PLANT SIZE DATA FORM

Allotment: Bernalillo

Species: Sper

Season: Autumn

Cluster: 7



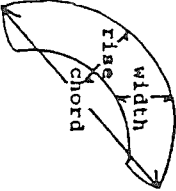
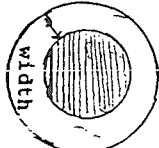
Ranger District: Sandia

Forest: Cibola

Date of Plant Size Measurements: Oct 4 71

Number of Transects: 4

Measured by: Saha Cook

No.	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	Longest dimension	sum	mean
1	length 10.0 width 4.0 	basal dia 6.0 	chord rise width chord 	width 	10.0		1
2					6.0		2
3					2.0		3
4					2.5		4
5					3.0		5
6	length 4.5 width 1.5				4.5		6
7					1.5		7
8					1.0		8
9					1.5		9
10					2.0		10
11					2.0		11
12					4.0		12
13					2.5		13
14					1.5		14
15					1.5		15
16							16
17							17
18							18
19							19
20							20

7

PLANT SIZE DATA FORM

Species: Boer

Season: Autumn

Alotment: Bernalillo

Ranger District: Sandia

Forest: Csaba

Cluster: 7

Number of Transects: Oct 4 '91

Date of Plant Size Measurements:

Measured by: John Cook

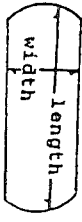
PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			.. RING ..	RUNNING MEANS		
	length	width	basal dia	basal dia	chord	rise	width	width	Longest dimension	sum	mean
1			2.0	2.0					2.0		
2			3.0	3.0					3.0		
3			2.0	2.0					2.0		
4			2.0	2.0					2.0		
5			3.0	3.0					3.0		
6			1.5	1.5					1.5		
7			1.5	1.5					1.5		
8			2.0	2.0					2.0		
9			3.0	3.0					3.0		
10			1.5	1.5					1.5		
11			3.0	3.0					3.0		
12			2.0	2.0					2.0		
13			3.0	3.0					3.0		
14			3.0	3.0					3.0		
15			2.0	2.0					2.0		
16			1.5	1.5					1.5		
17			1.5	1.5					1.5		
18			1.5	1.5					1.5		
19			1.5	1.5					1.5		
20			2.0	2.0					2.0		

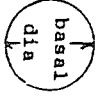
PLANT SIZE DATA FORM

Species: Hill Season: Autumn  
 Allotment: Boracillo Ranger District: Sandra Forest: Abola  
 Cluster: 2 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: Oct 4 '91 Measured by: Johanna Cook

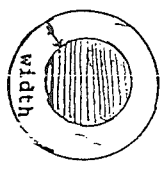
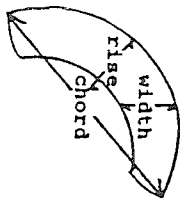
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PLANT SHAPE				Longest dimension	sum	mean
	ELONGATED	CIRCULAR	ARC	RING			
1	length 10.0 width 2.0	basal dia 1.8	chord rise width	width 10.0	10.0		
2					1.8		
3					1.8		
4					1.8		
5					1.3		
6					1.4		
7					1.3		
8					1.3		
9					4.5		
10	length 7.0 width 2.0	basal dia 2.0			7.0		
11					2.0		
12	length 3.2 width 1.8				3.2		
13	length 5.0 width 1.0				5.0		
14					1.0		
15					1.0		
16	length 13.0 width 2.0				13.0		
17					1.0		
18					1.0		
19					1.0		
20							



5



13



RUNNING MEANS

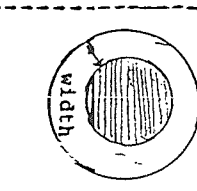
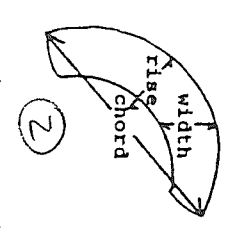
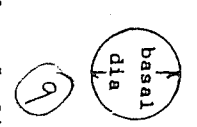
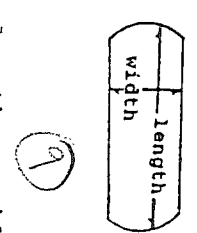




PLANT SIZE DATA FORM

Allotment: Banali/11/12 Species: Traya  
 Cluster: 8 Ranger District: \_\_\_\_\_  
 Date of Plant Size Measurements: \_\_\_\_\_ Number of Transects: \_\_\_\_\_  
 Measured by: \_\_\_\_\_ Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PLANT SHAPE				Longest dimension	sum	mean
	ELONGATED	CIRCULAR	ARC	RING			
1					15.0		1
2	5.5	2.0	15.0	2.0	5.5		2
3		3.5			3.5		3
4	7.8	2.0			7.8		4
5	6.0	2.5			6.0		5
6	5.0	2.0			5.0		6
7	9.0	2.0			9.0		7
8		3.3			3.3		8
9		1.0			1.0		9
10		2.0			2.0		10
11	10.0	1.5			10.0		11
12			39.0	2.5	39.0		12
13	9.5	1.5			9.5		13
14		3.0			3.0		14
15		3.0			3.0		15
16		2.0			2.0		16
17		1.5			1.5		17
18		1.5			1.5		18
19	7.5	2.5			7.5		19
20	5.0	1.8			5.0		20



RUNNING MEANS

8

PLANT SIZE DATA FORM

Species: Boer

Ranger District: \_\_\_\_\_

Season: \_\_\_\_\_

Forest: \_\_\_\_\_

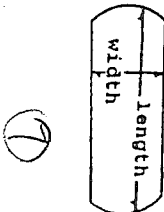
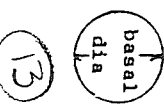
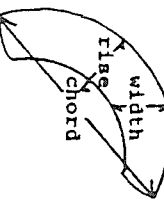
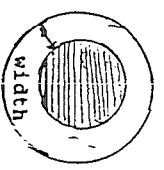
Allotment: Berd. 1/b

Number of Transects: \_\_\_\_\_

Cluster: 8

Measured by: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

No.	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean
1					5.5		
2		2.0			2.0		
3		2.0			2.0		
4	6.0    1.2				6.0		
5		3.0			3.0		
6		2.0			2.0		
7		1.0			1.0		
8		1.0			1.0		
9		2.5			2.5		
10	12.0    3.0				12.0		
11	5.5    1.5				5.5		
12	13.0    3.5				13.0		
13		4.0			4.0		
14		3.0			3.0		
15	9.8    4.5				9.8		
16		3.0			3.0		
17		1.5			1.5		
18		1.0			1.0		
19	6.0    2.0				6.0		
20	3.5    .8				3.5		



8

Species: M. wts

Season: \_\_\_\_\_

Allotment: Bernalillo

Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: 8

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

Measured by: \_\_\_\_\_

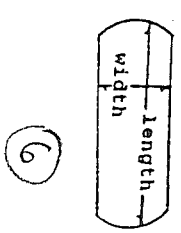
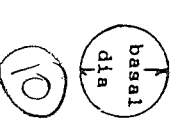
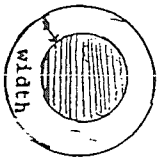
No.	PLANT SHAPE			width	longest dimension	RUNNING MEANS	
	ELONGATED	CIRCULAR	ARC			sum	mean
1				6.0	6.0		
2				2.0	4.0		
3				3.0	3.0		
4				11.5	11.5		
5				3.5	4.5		
6					2.0		
7					2.0		
8					9.5		
9				32.0	32.0		
10				5.0	4.5		
11					4.2		
12					1.5		
13					1.5		
14				11.5	11.5		
15				2.5	2.5		
16					21.5		
17					33.0		
18				15.0	15.0		
19				2.0	3.0		
20				3.0	19.0		

Diagram of an arc shape with width, rise, and chord labels. A circled '4' is next to it.



8

PLANT SIZE DATA FORM

Species: Hix

Allotment: Bernalillo

Ranger District: \_\_\_\_\_

Season: \_\_\_\_\_

Cluster: 8

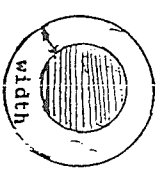
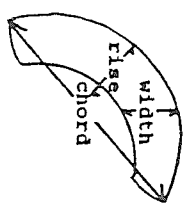
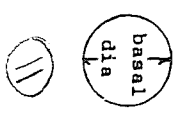
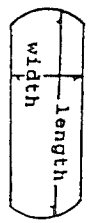
Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

Measured by: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean
1					2.0		
2		2.0			1.0		
3		.6			.6		
4		.3			.3		
5		.8			.8		
6		.6			.6		
7		.5			.5		
8		1.1			1.1		
9		1.0			1.0		
10		1.0			1.0		
11		1.0			1.0		
12							
13							
14							
15							
16							
17							
18							
19							
20							



8

PLANT SIZE DATA FORM

Species: Aristida

Season: \_\_\_\_\_

Allotment: Barnhill

Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: 8

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

Measured by: \_\_\_\_\_

PLANT SHAPE

	... ELONGATED ...	CIRCULAR	..... ARC .....		RING...	LONGEST dimension	sum	mean
	length width	basal dia	chord rise width	width	width			
1		7.0				7.0		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

RUNNING MEANS

LONGEST dimension sum mean



BASAL AREA SUMMARY FORM

Allotment: Bernville Ranger District: Shawnee Season: Autumn

Cluster: 9 Number of Transects:      Forest: C. 5/14

Date of Plant Size Measurements: Oct 4, 1991 Recorded by: John Cook

SPECIES EQV BSL DIA MONTH AND YEAR PARKER DATA WERE RECORDED

	Mo.	Yr	Mo.	Yr	Mo.	Yr	Mo.	Yr	Mo.	Yr	Mo.	Yr	Mo.	Yr	Mo.	Yr	Mo.	Yr	Mo.	Yr
<u>MULT</u>	3	96	0	6	1	5	4	11	8	4	4	4	2							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.2%)	(.3%-.1%)							
Hits:	5	0	0	0	0	0	0	0	0	0	0	0	0							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.1%)	(.3%-.1%)							
Hits:	0	0	0	0	0	0	0	0	0	0	0	0	0							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.1%)	(.3%-.1%)							
Hits:	0	0	0	0	0	0	0	0	0	0	0	0	0							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.1%)	(.3%-.1%)							
Hits:	0	0	0	0	0	0	0	0	0	0	0	0	0							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.1%)	(.3%-.1%)							
Hits:	0	0	0	0	0	0	0	0	0	0	0	0	0							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.1%)	(.3%-.1%)							
Hits:	0	0	0	0	0	0	0	0	0	0	0	0	0							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.1%)	(.3%-.1%)							
Hits:	0	0	0	0	0	0	0	0	0	0	0	0	0							
Basal Area:	(.8%)	(.14%)	(.5%)	(.5%)	(.2%)	(.8%)	(.7%)	(1.7%)	(1.2%)	(.7%)	(.3%)	(.7%)	(.4%)							
95% intervals:	(.4%-.14%)	(.5%-.14%)	(.5%-.5%)	(.0%-.4%)	(.1%-.7%)	(.7%-.1%)	(1.1%-.2%)	(.7%-.9%)	(.3%-.2%)	(.3%-.1%)	(.3%-.2%)	(.3%-.1%)	(.3%-.1%)							
Hits:	0	0	0	0	0	0	0	0	0	0	0	0	0							

9

PLANT SIZE DATA FORM

Allotment: Bernalillo Species: Boyr Season: \_\_\_\_\_  
 Cluster: 9 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: \_\_\_\_\_ Number of Transects: \_\_\_\_\_ Measured by: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	Longest dimension	sum	mean
1	11.5 length 2.0 width	3.5 basal dia	11.5 chord 2.0 rise 2.5 width		11.5		
2	8.4 length 2.0 width				8.4		
3		3.5 basal dia			3.5		
4	18.0 length 2.0 width				18.0		
5	7.3 length 2.0 width				7.3		
6	7.3 length 4.0 width				7.3		
7	11.0 length 2.0 width				11.0		
8		2.0 basal dia			2.0		
9		4.0 basal dia			4.0		
10		2.0 basal dia			2.0		
11	7.5 length 2.0 width	2.5 basal dia			7.5		
12		2.5 basal dia			2.5		
13		2.0 basal dia			2.0		
14		2.0 basal dia			2.0		
15		2.5 basal dia			2.5		
16	8.0 length 2.2 width				8.0		
17			11.5 chord 2.0 rise 2.5 width		11.5		
18		4.5 basal dia			4.5		
19		3.8 basal dia			3.8		
20	12.0 length 1.0 width				12.0		

9

PLANT SIZE DATA FORM

Species: Boer

Ranger District: \_\_\_\_\_

Number of Transects: \_\_\_\_\_

Measured by: \_\_\_\_\_


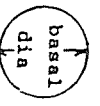
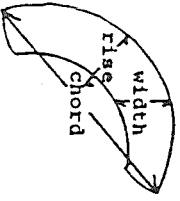
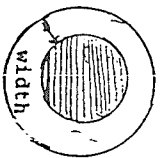
Season: \_\_\_\_\_

Forest: \_\_\_\_\_

Allotment: Bernalillo

Cluster: 9

Date of Plant Size Measurements: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	Longest dimension	sum	mean
1	 length width	 basal dia	 width rise chord	 width	2.0		1
2		2.0			2.0		2
3		2.0			2.0		3
4		4.2			4.2		4
5		2.5			2.5		5
6		1.5			1.5		6
7		1.0			1.0		7
8		4.8			4.8		8
9	8.5	3.3			8.5		9
10		2.0			2.0		10
11	3.5	1.5			3.5		11
12	9.5	4.0			9.5		12
13		1.5			1.5		13
14	12.0	1.2			12.0		14
15	8.0	1.0			8.0		15
16		1.0			1.0		16
17		3.0			3.0		17
18		3.0			3.0		18
19		2.0			2.0		19
20							20

*9*

PLANT SIZE DATA FORM

Species: Mute

Season: \_\_\_\_\_

Allotment: Bernalillo

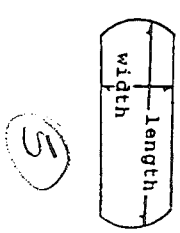
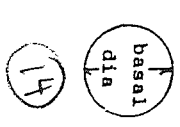
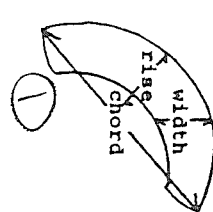
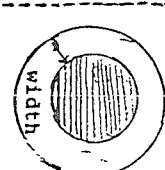
Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: 9

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_ Measured by: \_\_\_\_\_

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PLANT SHAPE				Longest dimension	sum	mean
	ELONGATED	CIRCULAR	ARC	RING			
							
1	length width	basal dia	chord rise width	width	11.0		
2		11.0			20.0		
3		6.0			10.0		
4	13.0 3.0				2.5		
5		3.0					
6	11.0 2.0						
7		4.5					
8		3.0					
9		2.0					
10		4.0					
11		4.0					
12		3.0					
13		2.0					
14		4.0					
15		5.5					
16	12.0 2.0						
17	16.0 2.0						
18		3.5					
19		3.5					
20	10.0 2.0						
					10.0		

RUNNING MEANS



9

PLANT SIZE DATA FORM

Species: H. sp.

Season: \_\_\_\_\_

Ranger District: \_\_\_\_\_

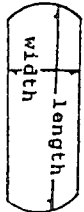
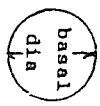
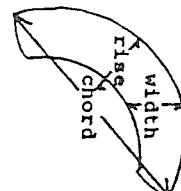
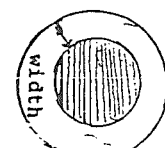
Forest: \_\_\_\_\_

Cluster: 9

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

Measured by: \_\_\_\_\_

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...  length width	CIRCULAR  basal dia	..... ARC .....  chord rise width	... RING ...  width	Longest dimension	sum	mean
1		1.5			1.5		
2		.3			.3		
3	14.0	2.0			14.0		
4		3.5			3.5		
5		.6			.6		
6		1.2			1.2		
7	7.0	1.5			2.0		
8		.6			.6		
9		.4			.4		
10		1.0			1.0		
11		.7			.7		
12		1.0			1.0		
13							
14							
15							
16							
17							
18							
19							
20							





Form 2.

PLANT SIZE DATA FORM

LINE INTERCEPT 9' north of 0 end

50' Line Intercepts

Allotment: Deerfield  
 Cluster: 1  
 Date of Plant Size Measurements: 5/26/92  
 Species: \_\_\_\_\_  
 Ranger District: \_\_\_\_\_  
 Number of Transects: 2  
 Measured by: ML & MG  
 Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_

PLANT SHAPE	ELONGATED		CIRCULAR			ARC			RING		RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	width	longest dimension	sum	mean		
1	14	2.5	3						14	17	8.5	1	
2			3						3	17	8.5	2	
3			4						4	29.5	8.5	3	
4			4						4	29.5	7.4	4	
5			1						25.5	55	11.0	5	
6									13.5	68.5	11.4	6	
7									1.5	70	10.0	7	
8									3.5	73.5	9.8	8	
9									2.5	26	6.4	9	
10									1	77	2.7	10	
11												11	
12									3			12	
13									4	7	3.5	13	
14									4	11	3.7	14	
15									1	12	3.0	15	
16									9	21	4.2	16	
17									12	33	5.5	17	
18									14.5	49.5	6.8	18	
19									25	72.5	9.1	19	
20									6	78.5	8.7	20	
21									3	81.5	8.2	21	
22									32	113.5	10.3	22	
23												23	
24									8.5			24	
25									3.5	12	6	25	

a 150' line  
 approximately 7' north of 1st  
 on line etc

Total Rows: 3  
 Rows: 3  
 Spots: 1  
 Total Spots: 2

Form 2.

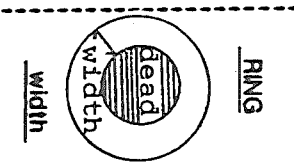
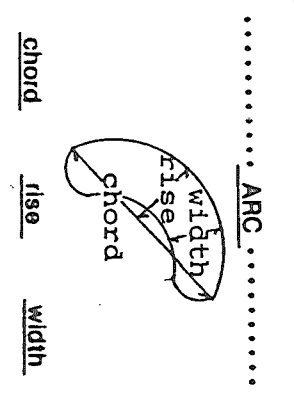
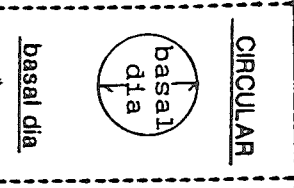
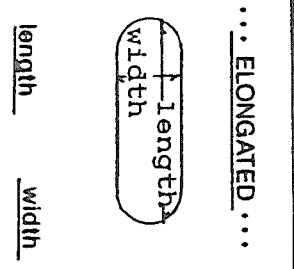
PLANT SIZE DATA FORM - LINE INTERCPT 9' North of Oerd

Species: \_\_\_\_\_  
 Season: \_\_\_\_\_  
 Allotment: BRWAL1110  
 Ranger District: \_\_\_\_\_  
 Forest: \_\_\_\_\_  
 Cluster: \_\_\_\_\_  
 Number of Transects: 5/6/93  
 Date of Plant Size Measurements: \_\_\_\_\_  
 Measured by: MB 9

No	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

QANT

SPCR-126  
 SSCR-207  
 BJEK-324  
 BOEK-109  
 BOEK-1315  
 BOEK-530  
 BOEK-051  
 BOEK-132  
 BOEK-833







50' line Transect

Form 2.

PLANT SIZE DATA FORM

-13' from Transect line on NW 1/4 side  
 or 0 end

Allotment: Bernville Ws

Species: line Transect

Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_

Cluster: 2

Ranger District: \_\_\_\_\_  
 Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: 5/26/92

Measured by: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean
SPCR-1							
Boer-2							
Boer-3	15	4.5	3	5			1
Boer-4			4				2
SPCR-5			3.5				3
Boer-6			1				4
Boer-7			1.5				5
Boer-8			10.5	8			6
Boer-9	7	1.5					7
Boer-10							8
Boer-11			3				9
Boer-12			6				10
Boer-13			7				11
Boer-14			1.5				12
Boer-15	5	2					13
Boer-16			6				14
MUTO-17			2.5				15
MUTO-18			4				16
SPCR-19	13	7.5					17
HISA-20			4.5				18
HISA-21			1.5				19
SPCR-22	7	2.5					20
SPCR-23			4.5				21
SPCR-24			19				22
HISA-25			6.5				23
			3				24
			19				25
Total Boer	3		10				
SPCR	7		12				
MUTO	0		2				
HISA	0		8				



PLANT SIZE DATA FORM

13' from transect line on NW side on Dend

Species: Live Intersect

Ranger District: \_\_\_\_\_

Season: \_\_\_\_\_  
Forest: \_\_\_\_\_

Allotment: Bennett WS

Number of transects: \_\_\_\_\_

Cluster: 2

Date of Plant Size Measurements: 5/26/92

Measured by: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	ELONGATED	CIRCULAR	ARC	RING	longest dimension	sum	mean
HJA-126							
SPCR-227		6	13.5	7	3.5		1
SPCR-228		3					2
SPCR-291		7.5					3
SPCR-330	6						4
SPCR-371		1.5					5
SPCR-321		3					6
SPCR-333	1.5						7
SPCR-334	5		18	7.5	5		8
SPCR-1035		4					9
HJA-136		1.5					10
SPCR-237	9	4					11
SPCR-1838		6					12
HJA-139		5					13
SPCR-1540		3					14
HJA-1641		9					15
SPCR-1421	3.5	1					16
SPCR-1843		5					17
HJA-1944		3					18
SPCR-2045		6.5					19
SPCR-2146	5.5	1					20
SPCR-2247							21
SPCR-2348							22
SPCR-2449							23
SPCR-2550							24
SPCR-2651							25

BASAL AREA SUMMARY FORM

50' live reference

Plotment: BELM 1110

Ranger District: Savalia Season: SPRING

Cluster: 3

Number of Transects: \_\_\_\_\_ Forest: Cibola

Date of Plant Size Measurements: 5/26/92 Recorded by: ALTMG

SPECIES EQV BSL DIA MONTH AND YEAR PARKER DATA WERE RECORDED

*1 sample less wof allow sampling precision to be restricted*

Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr

PRIS Hits: 0 Basal Area: 0 95% Intervals: (- -)

BOCU Hits: 0 Basal Area: 0 95% Intervals: (- -)

BOEK Hits: 0 Basal Area: 0 95% Intervals: (- -)

BOGR Hits: 0 Basal Area: 0 95% Intervals: (- -)

BOHI Hits: 0 Basal Area: 0 95% Intervals: (- -)

HITA Hits: 4 Basal Area: 7% 95% Intervals: (.3% - 1.2%)

MHTD Hits: 1 Basal Area: .2% 95% Intervals: (.1% - .4%)

ORHY Hits: 0 Basal Area: 0 95% Intervals: (- -)

Hits: Basal Area: 95% Intervals:

BASAL AREA SUMMARY FORM

50' LINE INTERCEPT

Plotment: Brown 1110 Ranger District: Sandwich Season: Spring

Cluster: 3 Number of Transects: \_\_\_\_\_ Forest: Cibola

Date of Plant Size Measurements: 5/26/92 Recorded by: ALVMG

SPECIES EQV BSL DIA MONTH AND YEAR PARKER DATA WERE RECORDED Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr

5 1955 5 1961 5 1970 5 1975 5 1980

SIHY Hits: 0 0 0 0 \_\_\_\_\_

Basal Area: \_\_\_\_\_

95% Intervals: \_\_\_\_\_

SPCR 4.55 Hits: 1 12 7 9 7 \_\_\_\_\_

Basal Area: .2% 2.1% 1.3% 1.6% 1.3% \_\_\_\_\_

95% Intervals: (.1% - .4%) (1.5% - 2.9%) (.8% - 1.9%) \_\_\_\_\_

STCO Hits: 0 0 0 0 \_\_\_\_\_

Basal Area: \_\_\_\_\_

95% Intervals: \_\_\_\_\_

\_\_\_\_\_ Hits: \_\_\_\_\_

\_\_\_\_\_ Basal Area: \_\_\_\_\_

\_\_\_\_\_ 95% Intervals: \_\_\_\_\_

\_\_\_\_\_ Hits: \_\_\_\_\_

\_\_\_\_\_ Basal Area: \_\_\_\_\_

\_\_\_\_\_ 95% Intervals: \_\_\_\_\_

\_\_\_\_\_ Hits: \_\_\_\_\_

\_\_\_\_\_ Basal Area: \_\_\_\_\_

\_\_\_\_\_ 95% Intervals: \_\_\_\_\_

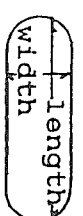

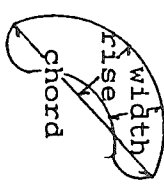
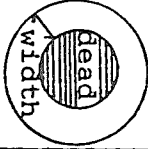
150 line INTERCEPT

8' from transect line on north side of 0 end

Form 2.

PLANT SIZE DATA FORM

Allotment: BERRILLIO WS Species: \_\_\_\_\_ Season: \_\_\_\_\_  
 Cluster: 3 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_  
 Measured by: MCT/A, M + GS

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
Yocw 1							
HITA 2	14	4.5					1
HITA 3		5					2
HITA 4							3
SPCR 5	17	5					4
BOER 6		2					5
BOER 7							6
BOER 8							7
BOER 9							8
BOER 10	11	4					9
BOER 11		4.5					10
BOER 12							11
BOER 13	6	2					12
BOER 14							13
BOER 15	4	2					14
BOER 16							15
BOER 17		1.5					16
BOER 18		4					17
HITA 19		1.5					18
HITA 20		10.5					19
HITA 21		3					20
SPCR 22		2					21
SPCR 23		5					22
BOER 24		1					23
BOER 25		1					24
Total SPCR	1	6					25
HITA	2	8					
BOER	3	14					
AVG	0	1					

50' line instrument

**PLANT SIZE DATA FORM**

S' from instrument line on north side  
 at 0 end

Species: \_\_\_\_\_ Season: \_\_\_\_\_  
 Allotment: Brown Hills WS Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Cluster: 3 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Measured by: WET, M, A, G

1	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BASAL AREA SUMMARY FORM

50' line intercept

Allotment: Bernalillo

Ranger District: Sandia

Season: Spring

Cluster: 4

Number of Transects:         

Forest: Cibola

Date of Plant Size Measurements: 5/27/92

Recorded by: AL + WIG

SPECIES  
EQV  
BSL  
DIA

MONTH AND YEAR PARKER DATA WERE RECORDED  
Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr

ANES

Hits: 0  
Basal Area:           
95% intervals:         

BOCU

Hits: 0  
Basal Area:           
95% intervals:         

BOEK

Hits: 0  
Basal Area:           
95% intervals:         

BOGR

Hits: 0  
Basal Area:           
95% intervals:         

BOHI

Hits: 0  
Basal Area:           
95% intervals:         

HIJA

Hits: 0  
Basal Area:           
95% intervals:         

WILTO

Hits: 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
Basal Area:           
95% intervals:         

ORHY

Hits: 0  
Basal Area:           
95% intervals:         

1 sample size does not allow for 95% intervals to be estimated

BASAL AREA SUMMARY FORM

Allotment: Berwyn 1110

Ranger District: Smellie

Season: Spring

Cluster: 4

Number of Transects: \_\_\_\_\_

Forest: Cibola

Date of Plant Size Measurements: 5/27/92

Recorded by: ALTMG

SPECIES EQV BSL DIA

MONTH AND YEAR PARKER DATA WERE RECORDED  
 Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr

SEHY

Hits: 0 0 0 0 \_\_\_\_\_

Basal Area: \_\_\_\_\_

SPCR

Hits: 0 3 6 5 9 \_\_\_\_\_

Basal Area: \_\_\_\_\_

STCO

Hits: 0 0 0 0 6 \_\_\_\_\_

Basal Area: \_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area: \_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area: \_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area: \_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area: \_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area: \_\_\_\_\_

Hits: \_\_\_\_\_

Basal Area: \_\_\_\_\_

*roseal*

**PLANT SIZE DATA FORM**

*MIT INTERCEPT - 7.2" N of Ho 9 end!*

Species: *K. ... 7*

Ranger District: \_\_\_\_\_

Season: \_\_\_\_\_

Allotment: *Burn*

Number of Transects: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: *4*

Date of Plant Size Measurements: *5/27/92*

Measured by: *AL VMS*

**PLANT SHAPE**

	... ELONGATED ...		CIRCULAR	..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	longest dimension	sum	mean
SPCR-1	10	6								
SPCR-2			5							
SPCR-3	7.5	6								
SPCR-4			3.5							
SPCR-5										
SPCR-6			3							
SPCR-7			5							
SPCR-8				10.5	6	4				
SPCR-9				13	4	3				
SPCR-10	3.5	1	3							
SPCR-11			4							
HJPT-12			5							
MUTO-13				3.2	16	5				
MUTO-14	16	8								
MUTO-15			24		16	6				
MUTO-16			21		20	11				
MUTO-17	16	7		17	10.5	5.5				
MUTO-18			8.5							
BOCR-19			2							
SPCR-20			6.5							
SPCR-21										
SPCR-22	7.5	3								
MUTO-23	13	5								
BOCR-24			3							
MUTO-25	27	3.5								
<b>Total</b>	<b>SPCR</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>8</b>	<b>1</b>	<b>1</b>
	<b>HJPT</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>
	<b>MUTO</b>	<b>5</b>	<b>4</b>	<b>8</b>	<b>4</b>	<b>11</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>
	<b>BOCR</b>	<b>1</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>11</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>



**PLANT SIZE DATA FORM**

LIVE in her camp

Species: \_\_\_\_\_

Season: \_\_\_\_\_

Allotment: BERN

Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: 4<sup>th</sup> CONTIN.

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: \_\_\_\_\_

Measured by: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean
MUTO 26		3					1
" 27		5					2
" 28		4	30	14	2		3
Boer 29							4
" 30							5
SPR 31							6
Boer 32							7
MUTO 33	5						8
Boer 34		10					9
" 35		3					10
" 36		6					11
" 37	16						12
SPR 38		7					13
Boer 39		4					14
" 40		3					15
MUTO 41		4.5					16
17							17
18							18
19							19
20							20
21							21
22							22
23							23
24							24
25							25



BASAL AREA SUMMARY FORM

50' line intercept

Plotment: BERNHILL

Ranger District: Sandy Season: Spring

Cluster: S

Number of Transects:            Forest: Cibola

Date of Plant Size Measurements: 5/27/92 Recorded by: ALT MG

PECIES EQV BSL DIA MONTH AND YEAR PARKER DATA WERE RECORDED

Mo. Yr 1955 5 1961 5 1970 5 1975 5 1980

SEHY Hits: 0 0 0 0 0

Basal Area:                                                       

95% Intervals: (- -) (- -) (- -) (- -) (- -)

PCR Hits: 0 0 0 0 0

Basal Area:                                                       

95% Intervals: (- -) (- -) (- -) (- -) (- -)

STCO Hits: 0 0 0 1 0

Basal Area:                                  .29%           

95% Intervals: (- -) (- -) (- -) (.1%-.4%) (- -)

STNE Hits: 0 0 0 0 1

Basal Area:                                  .29%           

95% Intervals: (- -) (- -) (- -) (.1%-.4%) (- -)

           Hits:                                                       

Basal Area:                                                       

95% Intervals: (- -) (- -) (- -) (- -) (- -)

           Hits:                                                       

Basal Area:                                                       

95% Intervals: (- -) (- -) (- -) (- -) (- -)

Form 2.

**PLANT SIZE DATA FORM**

Species: \_\_\_\_\_

Season: \_\_\_\_\_

Allotment: Bear Woods

Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: 5

Number of Transects: \_\_\_\_\_

Date of Plant Size Measurements: 5/22/92

Measured by: WJ, M & AL & GS

50' line perpendicular 13' on east side of road

**PLANT SHAPE**

STCO-1 Boek 2 Boek 3 Boek 4 " " 5 " " 6 " " 7 Boek 8 Boek 9 MUTO 10 MUTO 11 Bo HF 12 STCO 13 MUTO 14 " " 15 " " 16 Boek 17 Boek 18 Boek 19 " " 20 " " 21 " " 22 " " 23 " " 24 Boek 25	... ELONGATED ...		CIRCULAR		..... ARC .....			RING		longest dimension	sum	mean
	length	width	basal dia	chord	rise	width	width	width				
	8	3										
	6	4	2.5									
			2									
			1.5									
			2.5									
			4.5									
	5	2										
			3.2									
			1.5									
			3									
			2									
			12									
			9									
			3									
			17									
			3.5									
			8									
			2									
			5.5									
			3									
			3.5									
			3									
			4.5									
			2									
			2									
			4									
			1									
			2									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
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			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
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			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									
			1									
			0									
			7									
			3									
			13									

AMR 2

Form 2.

50' LINE INTERCEPT 13' on east side of O END

PLANT SIZE DATA FORM

Species: \_\_\_\_\_ Season: \_\_\_\_\_

Allotment: BERNW 11/16 WS Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_

Cluster: 5 Number of Transects: \_\_\_\_\_ Measured by: MCT MG + AL + GS

Date of Plant Size Measurements: 5/27/92

PLANT SHAPE

	... ELONGATED ...		CIRCULAR		..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	longest dimension	sum	mean	
B6 HI 26			2								
B6 HI 27			3								
B6 HI 28			4								
B6 HI 29			2.5								
AWLO 30	20	10	2								
B6 HI 31			2								
B6 HI 32	6	2	2								
B6 HI 33			2								
B6 HI 34											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											





PLANT SIZE DATA FORM

Species: \_\_\_\_\_

Season: \_\_\_\_\_

Allotment: Boyer

Ranger District: \_\_\_\_\_

Forest: \_\_\_\_\_

Cluster: 6

Number of Transects: 5/27/62

Date of Plant Size Measurements: 5/27/62

Measured by: MCT & MGS

50' Line in Boyer - 3.5 ft. from 8 East of Boyer

PLANT SHAPE

ST Col	... ELONGATED ...		CIRCULAR		..... ARC .....			RING		RUNNING MEANS		
	length	width	basal dia	basal dia	chord	rise	width	width	width	longest dimension	sum	mean
Boyer-1												
Boyer-2												
Boyer-3												
Boyer-4	4	1	5	5								
Boyer-5				2.5								
Boyer-6				4.5								
Boyer-7				4.5								
Boyer-8	7.5	1.5										
Boyer-9				3								
Boyer-10				2								
Boyer-11				4								
Boyer-12	6.5	3.5										
Boyer-13				1								
Boyer-14				1								
Boyer-15	7	3										
Boyer-16					11	5	2.5					
Boyer-17				2.5								
Boyer-18				3								
Boyer-19	6.5	3										
Boyer-20	7	3										
Boyer-21				10								
Boyer-22					13	11	5					
Boyer-23												
Boyer-24												
Boyer-25												
Total	57.0	8	2	23								

Boyer 0  
Boyer 5  
Boyer 1  
Boyer 1







BASAL AREA SUMMARY FORM

50' Line Intercept

Plotment: Berm 11/10 Ranger District: Sandita Season: Spring

Custer: 7 Number of Transects:        Forest: Cibola

Date of Plant Size Measurements: 5/27/92 Recorded by: ALT MG

PECIES EQV BSL DIA MONTH AND YEAR PARKER DATA WERE RECORDED

Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr
5	1955	5	1961	5	1970	5	1975	5	1980					

SEHV 2.94cm Hits: 0 0 0 0 1

Basal Area: 0 0 0 0 0.1%

95% Intervals: (0-0) (0-0) (0-0) (0-0) (0.0%-3%)

PCR 84cm Hits: 2 8 5 1

Basal Area: 0.3% 1.5% 1.9% 1.2% 0.3%

95% Intervals: (0.1%-0.4%) (0.2%-0.9%) (1.3%-2.5%) (0.7%-1.8%) (1%-4%)

STCO Hits: 0 0 0 0 0

Basal Area: 0 0 0 0 0

95% Intervals: (0-0) (0-0) (0-0) (0-0) (0-0)

Hits:                                   

Basal Area:                                   

95% Intervals: (0-0) (0-0) (0-0) (0-0) (0-0)

Hits:                                   

Basal Area:                                   

95% Intervals: (0-0) (0-0) (0-0) (0-0) (0-0)

Hits:                                   

Basal Area:                                   

95% Intervals: (0-0) (0-0) (0-0) (0-0) (0-0)

50' line Intercept - 9' North of End  
 Form 2. **PLANT SIZE DATA FORM**

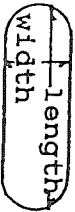

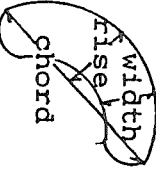

Species: \_\_\_\_\_ Season: \_\_\_\_\_  
 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Allotment: Bear Hill Number of Transects: \_\_\_\_\_  
 Cluster: 7 Date of Plant Size Measurements: 5/26/92 Measured by: MG + AL

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean
spk-1							
BGR-2	length 10 width 4	basal dia 8	chord 23 rise 9.5 width 6	width 3.5			1
BGR-3							2
BGR-4							3
BGR-5							4
BGR-6							5
BGR-7							6
BGR-8							7
BGR-9							8
BGR-10							9
BGR-11							10
BGR-12							11
BGR-13							12
BGR-14							13
BGR-15							14
BGR-16							15
BGR-17							16
BGR-18							17
BGR-19							18
MTO-20							19
MTO-21							20
MTO-22							21
MTO-23							22
MTO-24							23
MTO-25							24
Total spk	0	1	0	0			25
Boys	8	13	6	0			
MTO	2	6	0	1			
High	0	0	0	0			

page 2  
 50' LINE INTERCEPT - 9' MARK of D End  
 FORM 2

PLANT SIZE DATA FORM

Species: \_\_\_\_\_  
 Ranger District: \_\_\_\_\_  
 Number of Transects: \_\_\_\_\_  
 Measured by: MSVAH  
 Allotment: Bemwillie  
 Cluster: 7  
 Date of Plant Size Measurements: 5/26/92  
 Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_

	PLANT SHAPE				longest dimension	sum	mean
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 			
	length	width	basal dia	chord	rise	width	
MULTO 26.			3	17	6	3.5	1
B06R 27.							2
B06R 28. 18		9					3
B06R 29. 17		4					4
B06R 30.				36	13	6	5
B06R 31.			1				6
B06R 32.			1.5				7
B06R 33. 18.5		3.5					8
B06R 34.			4				9
B06R 35.				22	24	6	10
MULTO 36.			4.5				11
HITA 37.			4				12
B06R 38.			7				13
B06R 39.			1				14
							15
							16
							17
							18
							19
							20
							21
							22
							23
							24
							25

RUNNING MEANS

BASAL AREA SUMMARY FORM

50' Line Intercept

Plotment: Bear Hill 6 Ranger District: Swedenia Season: Spring

Luster: 8 Number of Transects:        Forest: Cibola

Date of Plant Size Measurements: 5/27/92 Recorded by: ALMG

Plant Species: EQV BSL DIA MONTH AND YEAR PARKER DATA WERE RECORDED

Species	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr	Mo. Yr		
<u>YRIS</u> Basal Area: 95% Intervals:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )		
	Hits: <u>0</u>																		
	Basal Area: <u>0</u>																		
	95% Intervals: <u>(<u>      </u>)</u>																		
	<u>30CL</u> Basal Area: 95% Intervals:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	
		Hits: <u>0</u>																	
		Basal Area: <u>0</u>																	
		95% Intervals: <u>(<u>      </u>)</u>																	
		<u>30ER</u> Basal Area: 95% Intervals:	3	1	5	10	3	3	3	3	3	3	3	3	3	3	3	3	3
			( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )
Hits: <u>3</u>																			
Basal Area: <u>1.5%</u>																			
95% Intervals: <u>(<u>      </u>)</u>																			
<u>30GR</u> Basal Area: 95% Intervals:			5	3	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9
			( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )
	Hits: <u>5</u>																		
	Basal Area: <u>1.9%</u>																		
	95% Intervals: <u>(<u>      </u>)</u>																		
	<u>BoHT</u> Basal Area: 95% Intervals:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )
		Hits: <u>0</u>																	
		Basal Area: <u>0</u>																	
		95% Intervals: <u>(<u>      </u>)</u>																	
		<u>HIJA</u> Basal Area: 95% Intervals:	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3
			( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )
Hits: <u>0</u>																			
Basal Area: <u>0</u>																			
95% Intervals: <u>(<u>      </u>)</u>																			
<u>MUTO</u> Basal Area: 95% Intervals:			11	11	6	2	4	4	4	4	4	4	4	4	4	4	4	4	4
			( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )
	Hits: <u>11</u>																		
	Basal Area: <u>1.9%</u>																		
	95% Intervals: <u>(<u>      </u>)</u>																		
	<u>ORHY</u> Basal Area: 95% Intervals:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )	( <u>      </u> )
		Hits: <u>0</u>																	
		Basal Area: <u>0</u>																	
		95% Intervals: <u>(<u>      </u>)</u>																	



50' line transect

7.5' from E end east of stake

Form 2.

PLANT SIZE DATA FORM

Allotment: BERRY 11/10 Species: \_\_\_\_\_  
 Cluster: 8 Ranger District: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_  
 Measured by: MGA ML

PLANT SHAPE

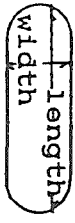

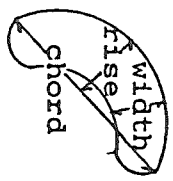
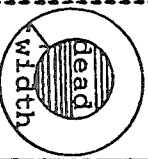
	... ELONGATED ...			CIRCULAR			..... ARC .....			RING	RUNNING MEANS		
	length	width	basal dia	chord	rise	width	width	width	longest dimension	sum	mean		
MUTO1	10	4											
BGR-2			7										
BGR-3			7										
BGR-4				7	3	2							
BGR-5			3.5										
BGR-6	11	6		15	9.5	3							
BGR-7													
BGR-8	12	4	1										
MUTO-9													
BGR-10	5	2		10	5	3.5							
BGR-11													
BGR-12	5.5	2		19.5	8	2							
MUTO13			2.5										
BGR-14			3										
BGR-15			1.5										
BGR-16	8	4											
BGR-17													
BGR-18	7	2											
BGR-19	6.5	2	2.5										
BGR-20				10	5	2.5							
BGR-21			3										
BGR-22				34	21	4							
MUTO-23													
BGR-24	14	3	4										
BGR-25													
Total Muto	1	1	1	2	4	6							
BGR	6	10	10	4	6	6							
BGR	4	10	10	6	6	6							



50' Line Intercept 7.5' from end east of stake

PLANT SIZE DATA FORM

Allotment: BERRY Hill Species: \_\_\_\_\_ Season: \_\_\_\_\_  
 Cluster: 8 Ranger District: \_\_\_\_\_ Forest: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/26/92 Number of Transects: \_\_\_\_\_ Measured by: MISVAL

No	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BASAL AREA SUMMARY FORM

50' Line intercept

Allotment: Bear Mill

Ranger District: Smelia

Season: Spring

Cluster: 9

Number of Transects: 5/27/92

Forest: Cibola

Date of Plant Size Measurements: 5/27/92 Recorded by: ALMG

SPECIES EQV BSL DIA Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr Mo. Yr

MONTH AND YEAR PARKER DATA WERE RECORDED

1955 1961 1970 1975 1980

ARIS Hits: 0 Basal Area: 0 95% intervals: 0

BOCU Hits: 0 Basal Area: 0 95% intervals: 0

BOEA Hits: 4 Basal Area: .5 95% intervals: (.2% - 1.0%)

BOGA Hits: 4 Basal Area: .7% 95% intervals: (.3% - 1.2%)

BOHT Hits: 0 Basal Area: 0 95% intervals: 0

HJJA Hits: 1 Basal Area: .1% 95% intervals: (.0% - .3%)

MUTO Hits: 3 Basal Area: .6% 95% intervals: (.2% - 1.2%)

ONHP Hits: 0 Basal Area: 0 95% intervals: 0

BOHT Hits: 0 Basal Area: 0 95% intervals: 0

HJJA Hits: 1 Basal Area: .1% 95% intervals: (.0% - .3%)

MUTO Hits: 3 Basal Area: .6% 95% intervals: (.2% - 1.2%)

ONHP Hits: 0 Basal Area: 0 95% intervals: 0

BOHT Hits: 0 Basal Area: 0 95% intervals: 0

HJJA Hits: 1 Basal Area: .1% 95% intervals: (.0% - .3%)

MUTO Hits: 3 Basal Area: .6% 95% intervals: (.2% - 1.2%)

ONHP Hits: 0 Basal Area: 0 95% intervals: 0



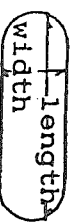

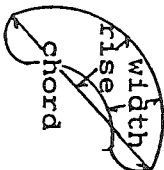
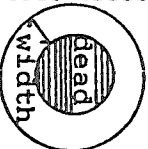
Form 2.

PLANT SIZE DATA FORM

50' line Intercept - 8' from End on East side

I

Allotment: Bernalillo Watershed Species: \_\_\_\_\_  
 Cluster: 9 Ranger District: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92 Number of Transects: \_\_\_\_\_  
 Measured by: MCMG, AL & G

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ... 	CIRCULAR 	..... ARC ..... 	RING 	longest dimension	sum	mean
Boyer 1	12	4.5					1
" 2							2
" 3							3
" 4	8	2.5					4
" 5							5
" 6			12	5			6
Boyer 7							7
Boyer 8							8
" 9							9
" 10							10
" 11							11
" 12	12	3					12
" 13							13
" 14	12	3.5					14
Boyer 15	6.5	2					15
" 16							16
Boyer 17							17
" 18	2.5	1					18
" 19	6	2.5					19
" 20	10	4					20
" 21	5	3					21
" 22							22
Sper 23							23
Boyer 24							24
Boyer 25	10.5	3.5					25
Total Boyer	12						24
Boyer	6						14
Sper	0						0
Mutd	1						1



Form 2.

PLANT SIZE DATA FORM

Line Intercept  
COMIX, III

Species: \_\_\_\_\_  
 Allotment: Bernalillo Watershed  
 Ranger District: \_\_\_\_\_  
 Cluster: 9  
 Number of Transects: \_\_\_\_\_  
 Date of Plant Size Measurements: 5/27/92  
 Measured by: \_\_\_\_\_  
 Season: \_\_\_\_\_  
 Forest: \_\_\_\_\_

	PLANT SHAPE				RUNNING MEANS		
	... ELONGATED ...	CIRCULAR	..... ARC .....	RING	longest dimension	sum	mean
Boyer S 1							
Speer S 2		1.5					
Boer S 3		1.5					
" S 4	5.5	2.5					
Muto S 5	5.5	2.5					
Boer S 6		2.5					
" S 7		3					
Muto S 8		5.5					
Boer S 9	6	3					
Boyer <del>2060</del>		2.5					
" <del>2261</del>		2.5					
Muto 1262		5.5	6	4	1.5		
Boer 1863		5.5					
" 1464		2					
" 1565		4					
" 1666	14	2.5					
" 1767							
18							
19							
20							
21							
22							
23							
24							
25							

CSA Bernalillo Watershed 1980, 1982, 1983  
 Counts Per 100 Feet of Transect

Transect #	Hier	Bogor	Bogor	Bogor	Bogor	Mato	Sger	Sily	Arln	Gusa	Barc	Open	S	ne	Eugh	Hyac	ALLI	Hosq	Astogkls	Turna	Hymenoptera	Baki	
<b>1980</b>																							
1	14	9	14	14		9	20	4		10	10												
2	11	9	9	9		8	24			13	20												
3	24	1	1	1		5	20	1	3	13	19	1	6	6	4			1	1	6	10	1	15
4	13	3	3	3		5	49		2	2	15	3	1	1	2			2	7	6	10		
5	4	33	33	33		4		1		2	1												
6	17	17	17	17		16		3		2	10												
7	29	29	29	29		11	4		1	2	10									14	14		
8	7	25	25	25		6	1	1		4	8												
9	5	30	30	30		6				6	8												
<b>1982</b>																							
1	8	9	9	9		10	45			15	14												
2	11	8	8	8		12	23			12	19	2											
3	20	3	3	3		6	25		3	6	20	2	4	4									
4	7	29	29	29		7	38		1	2	13												
5	1	27	27	27		7		1	2	1	9	3											
6	6	16	16	16		1	11		1	1	2												
7	6	12	12	12		1			2	1	3												
8	4	8	8	8		10				6	3												
9	4	36	36	36		10				6	3												
<b>1983</b>																							
1	11	10	10	10		15	42			15	4	1											
2	11	8	8	8		13	32			14	8												
3	39	2	2	2		7	22			4	10	4											
4	1	14	14	14		6	74		4	2	10												
5	3	15	15	15		1				3	1	4											
6	5	4	4	4		16	4			2	1	2											
7	3	31	31	31		10				16	13												
8	5	61	61	61		9				10	14												
9	4	39	39	39		9				9	12												

Tump	Hymenoptera	Bahi	Qata	Leer	SP	Lera	Selo	Spheroidea	Yugl	Stip	Ascl	Exro	Atca	A-fe
1								2	3	1				
10	1													
10		15	2	1	3	2	2							
11								1			1	4		
13				2								6	1	
2									3					
12	5	21	1	2				1	1					1
14		23							1				1	1
5								2	5					5



ONCOMITER  
1987

Study/Location: Bern W S  
 Allotment/#: \_\_\_\_\_  
 Transect #: 1

Date: \_\_\_\_\_  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-													-SPECIES-													-SPECIES-												
Pt. #	L	R	B	S	SPR	M/JA	BOEK	GUSA	MUTO	SITG	Annual	Pt. #	L	R	B	S	MUTO	GUSA	H/DA	S/PP	BOEK	SINK	Annual	Pt. #	L	R	B	S	MUTO	GUSA	BOEK	SINK	Annual					
1	2		5	1		T					1	3	9			10							T	7	7	5			3	2								
2		T		10		T						4	0	2		5	T							3	7	8			5	5	T							
3		T		10								4	1	5		3	T							2	7	9			2	8								
4			10			T						4	2	4		6		T	T					8	0		2	8			T							
5	2		5				3					4	3	6			4							8	1		5	5						T				
6	1		9			T		T				4	4		T	10								8	2		10											
7			10			T		T				4	5		10									8	3		T	10										
8	2		3	3							2	4	6		10									8	4		6	4										
9	1		7						2			4	7	2	5			3						8	5	2		8							T			
10			10									4	8	2	4		3						1	8	6		9	1							T			
11			9	1		T						4	9	3	3	2							2	8	7	2	5	3										
12	2				T			5	3			5	0	1	4	T		3	T				2	8	8		2	4	4									
13	T		10						T			5	1		2	8				T				8	9		5	2	3									
14	1		7	1		T						1	5	2	1	5			T	5				9	0		T	10										
15		2	8									5	3	1	3			3					3	9	1		T	10										
16	7							3				5	4		2	7								9	2		2	8										
17	2		8			T		T				5	5		5		T							9	3	3	1	2	4									
18	2		7			T						1	5	6	2						8			9	4		T	10		T								
19	1		4				2	2				1	5	7	4	6								9	5		1	4										
20	2		5						2	1		5	8		5		4						1	9	6		1	5	4									
21	1								1	8		T	5	9		1	9							9	7		10											
22		1	9			T						6	0	1	7				2					9	8	T	7	3							T			
23		2	8									6	1	3			5		2					9	9		6	4										
24	5							5				6	2				5		5					100	1	4			5							T		
25	5					T		5				6	3	4	3				3																			
26			10			T					T	6	4	7	5	3																						
27			10									6	5	3						6			1															
28	1		6						2			1	6	6	10					T																		
29	1		7					2				6	7	2	6	2																						
30	3		7			T		2				6	8	4					5	1																		
31	2		5					2				6	9	4			4			2																		
32	3		6					T			1	7	0				10																					
33	5		3					2	T			7	1	2					8																			
34	2		5				2	1				7	2	2			2		4																			
35			10									7	3	2	8																							
36			10									7	4		10																							
37	1		5	2			2					7	5		6	4																						
38	2		6								1	7	6		1	1	8																					

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: BGM W.S. Date: \_\_\_\_\_  
 Allotment/#: \_\_\_\_\_ Pasture: \_\_\_\_\_  
 Transect #: 1 Vegetation Type: \_\_\_\_\_ Habitat Type #: \_\_\_\_\_  
 Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS		Annual
	MJTO	GUSP	HISA	BOER	SAR	OPPO	CIHO			
1	8	1	4	3	6	1				
2	8	2		2			4			6
3		3	5		4		2			21
4	8	2	5		4	1				
5	8	1		2	12		9			19
6		3	2	5			2			24
7		3		3			4			
8	4	2		1						11
9	6	1		1	3		1			20
10	3	2			4					
X										
f										



CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Beril

Date: 8-11-87

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 2

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES						FORBS AND SHRUBS						Annual
	GUSA	ALVA	SIHY	SOCR	BOER	MUTU							
1	1	4	1										10
2	2	2	1	13									8
3				11									26
4	3			4	1								10
5	1				1	8							
6	2		4			4							12
7	5	2		7									23
8	2		10			5							12
9	4		6			15							22
10	1	2	11	4		2							24
X													
f													

ONCOMP

Study/Location: Bern  
 Allotment/#: \_\_\_\_\_  
 Transect #: 3

Date: \_\_\_\_\_  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-																								
Pt. #	L	R	B	S	SPR	Mulo	GLS	Feo	HTA	ber	STH	Annual	Pt. #	L	R	B	S	SPR	Mulo	GLS	Feo	HTA	ber	STH	Annual	Pt. #	L	R	B	S	SPR	Mulo	GLS	Feo	HTA	ber	STH	Annual								
1	1		9	T									3	9	T	8	2									7	7	3	4	2	1	T														
2			10										4	0	1	6	3										7	8	2	3	1	4														
3	1		8		1								4	1	T	10	T										7	9	T	10																
4	T		10										4	2		7	3										8	0	2	8																
5			5		1	4							4	3		10											8	1	2	5	3															
6			10										4	4	4	4	2										8	2	3	3	4															
7			10										4	5		8	T	1									8	3	9																	
8	1		9										4	6	7	8											8	4	7		1	2														
9			10										4	7		10											8	5	2																	
10	7							2					4	8	7	1	8										8	6	3	4	2															
11	3		4	T		2	1						4	9	2	5	1										8	7	1	9																
12	4		6					T					5	0	T	10											8	8	5	5																
13	7							T	1	2			5	1	T	4											8	9	1	9	T	T														
14	9							T					5	2	2		8										9	0	1	9																
15	T		10					T		T			5	3	T	2	1										9	1		10	T															
16			9					T		1			5	4	4	3	1										9	2	5	4	1															
17	1		6					3					5	5	6		1										9	3	3																	
18	2		4					2	2				5	6	5		2										9	4		1	9															
19	9							1					5	7	1	9	T										9	5	1	3	6															
20	1		8					T	T				5	8	3	7	T										9	6	6																	
21	2		4					3	1				5	9	3	5	T										9	7	2		T															
22	9							1					6	0	1	5											9	8		10																
23	2		8					T		T			6	1		12											9	9		7	1															
24			10										6	2	2	6	1										100	2	2																	
25			2					4	4				6	3	5	2																														
26	2							8					6	4	2	5	3																													
27	2		3					3	2				6	5	4	4	T																													
28	5		5					T					6	6	3	2	4																													
29	1		8	T				1					6	7	3	4	2																													
30	4							2	4				6	8	4	6																														
31	4							2	4				6	9	5	1	1																													
32	10												7	0	4	4	1																													
33	T		10					T					7	1	5	2																														
34	T		9					1					7	2	5	1																														
35	7		2							1			7	3	1	8	1																													
36	3		6					T	1				7	4	3	6	1																													
37	9							1					7	5	2	8	T																													
38	T		7					1		T			7	6	3	5																														

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bern

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 3

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES						Ech. 3 Mamm	FORBS	AND SHRUBS	Annual
	SPR	HWA	busa	Ferr	Boer	SPEN				
1	2	4	4	10						2
2		2	3	16	2					
3		5	1	21	3	1				3
4		3	3	6	2					
5	1		3	8	2	6				
6	1	5		17		7	1			9
7		9		15						3
8	3	13	1	5						3
9	5	4	1	13						1
10	2		2	18		7				
X										
f										

ONCOMP

Study/Location: Bernalillo  
 Allotment #: \_\_\_\_\_  
 Transect #: 4

Date: 8-10-87  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-										
Pt. #	L	R	B	S	SPUR	LEOC	MUTU	OSBY	Annual	Pt. #	L	R	B	S	SPUR	LEOC	MUTU	OSBY	Annual	Pt. #	L	R	B	S	SPUR	LEOC	MUTU	OSBY	Annual			
1	1	7				2				3	9	7			2	2	2			2	7	7	1			6	1				2	
2	1	7				1				4	0	1			5	3				1	7	8				2	1				5	
3		9				1				4	1	1			7	1				1	7	9	1			5		1	3			
4	1	7				1				4	2	T			10					1	8	0				7	T			1		
5	2	6				1				T	4	3	1		8	T				1	8	1	T			9	T			1		
6	2	4				3	1			4	4	1			8	T				1	8	2				9	1					
7	T	10								4	5	3			3	3				1	8	3				5	T	2		3		
8	T	10								4	6	2			2	3				3	8	4	1			5	2	2				
9	1	0				1				4	7	9			1	T				1	8	5	1			7	2					
10		9								4	8	9				1				1	8	6				2	6			2		
11	1	8				1	T			4	9	6				1	3			1	8	7				2	1	3		4		
12	T	10								5	0				6	T	2			1	8	8	2			3	3			2		
13	3	2				2	3			5	1				6	2	T			2	8	9	T			10						
14	2	4				1	3			5	2	T			8					1	9	0				9	T			1		
15	1	9				T				5	3	2			5					2	9	1				5	2			3		
16	1	6				1	1			5	4	3			5					1	9	2	2			1	4			5		
17		7				2	1			5	5				10	T				1	9	3				10	T					
18	1	5				2	2			5	6	1			5	T				2	9	4	3			2	2			2		
19	3	6				1	T			5	7				7	T				2	9	5	1			6	1	2				
20	1	5				3				5	8	2			7					1	9	6				10	T					
21	4	4				1	1			5	9	1			6	T				3	9	7				10						
22	1	6				2				6	0	3			3	T	1			2	9	8				7	T	1		2		
23	4	3				3				6	1	T			10					T	9	9	1			3	4	2				
24	T	10								6	2	2			6	1				1	100					7	2			1		
25		10								6	3	2			5	2	T			1												
26	1	9				T				T	6	4			4	2	2			2												
27	1	7				1				6	5	T			7					2												
28	1	8								6	6				8					2												
29		2				8				6	7	1			5	3	1			2												
30	2	1				6	1			6	8	2			3	3				2												
31	T	10								6	9	1			3	3	2			1												
32	1	7				1	1			7	0	T			9	T				1												
33	2	4								3	7	1			5	1	1			2												
34	4	3				2	1			7	2	T			10					2												
35	1	9				T				7	3				10	T				1												
36	T	8				1				7	4	3			2					1												
37	3	1				4	2			7	5				6	3				1												
38	T	10								T	7	6			2	4				4												

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Barrileto

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 21

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS							Annual
	SPGR	BOGR	GUSA	FEOL	OPEN	HJA	SILY								
1	8	1	1												
2	10			15											8
3	11			6											21
4	8			12											15
5	3		1	15	2	2	1								16
6	12			5											12
7	8			9			5								16
8	13			21			3								18
9	16			12											24
10	13			13											32
$\bar{x}$															
f															



Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: 5

Date: 8-10-87  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-												-SPECIES-												-SPECIES-																														
Pt. #	L	R	B	S	STAC	BOGE	GLAD	BOH2	KASH	HYE	WIDE	WUT	WUM	Annual	Pt. #	L	R	B	S	BOGT	BOHT	STAC	WUT	BOCU	WUG	BOGE	Annual	Pt. #	L	R	B	S	BOGR	BOGT	JUMG	BOCI	CGSY	WUT	FECC	Hymel	WUT	Annual												
1	5	1			4										3	9	7			3	1							7	7																									
2	2	4	1			3									4	0	3	7										7	8		8	2																						
3		5			5										4	1	3			3	2			Jumo	3	2	7	9		9	1																							
4	2	4			4										4	2	3	5			2			Jumo	8		8	0		10																								
5		8	2												4	3	8	2							Jumo	10		8	1		10																							
6		7			3										4	4	10							Jumo	10			8	2		10																							
7		10							T						4	5	10							Jumo	10			8	3		1	7																						
8		3			4				3						4	6				9	2			Jumo	10	T		8	4		10																							
9		10			T										4	7	7	3						Jumo	10	1		8	5		2	8																						
10	5				3	2			Jumo	8					4	8	2	7						Jumo	10	1		8	6		10																							
11	4								3	3	Jumo	10			4	9	2	8										8	7		1	5																						
12	8								2		Jumo	10			5	0	1	9										T	8	8		7																						
13	7				Jumo	10			3						5	1	10												8	9		1	7																					
14	9				1	Jumo	10			T					5	2	9	1											9	0		10																						
15		8			2				T	5					5	3	8						2						9	1		10																						
16	2	3	2						3						5	4	1	9						2					9	2		1	8																					
17		5													5	5	7						3						9	3		T	9																					
18		8	2												5	6	9								1				9	4		2	5																					
19		9	1												5	7	7							2	1					9	5		1	7																				
20		3	1												5	8	6			3					1				9	6		10																						
21		8			2										5	9	8							2						9	7		8																					
22		8				2									6	0	1	9												9	8		2	10																				
23		3				5	2								6	1	10													9	9		9																					
24		6				4									6	2	8	2												100		1	9																					
25		8			2										6	3	4	2						4																														
26		7			3										6	4	10																																					
27		3				4									6	5	2	2																																				
28	4	3													6	6	10																																					
29	4	3													6	7	9																																					
30	3	3													6	8	5																																					
31	4	4	2												6	9																																						
32		3			T	2	5								7	0	1	8																																				
33		9				1									7	1	7	3																																				
34	1	3				4	2								7	2	6																																					
35		9			1										7	3	8	2																																				
36		7													7	4	3	4																																				
37		4			2										7	5	8																																					
38		5				5									7	6	10																																					

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 8-10-89

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 5

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS					Annual		
	STNE	BOGR	BOHT	HYFL	UGAL	FEOC	Jun	HJA	BOER	ARLO	GUSA	HYMB		CEMO	BOCU
1	4	1	3	1	1	8	1								
2	1	2	10					1	3						
3	1	3	2						17						
4	1	8	1	1						2	2	1			
5	1							CANAS	1		1		1	1	2
6		9	2	1					1						
7		7							1						12
8			6						3						3
9			4							<u>Hyme 1-1</u>	1			2	2
10			12	1											
X															
f															



CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: ROM W.S

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 6

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS					Annual		
	ARFE	BOCV	LES9	EUPH	BOGR	BOHI	VERK	ROER	Hume1	HASP2	H7F1	MPO		Leek	SIH
1	3	5	4	5	4	2									
2		3		2	17	5	4	3	1						
3	3	1		5		12		4		1	1				
4	2	5			16	1	1	5	1	3		2	1	1	
5		3	STEP1		6	2		3					29		
6			1	2	8	14		2		1					
7				2	12	10		2	ERIOH						10
8		2	1	4	2			GUSA 1							
9		1			4	2	7	3	GUSA 5						
10	2	10		2		9			1	GUSA 3		2		3	
$\bar{x}$															
f															

Study/Location: Bern  
 Allotment/#: \_\_\_\_\_  
 Transect #: 7

Date: 1487  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-															
Pt. #	L	R	B	S	Case	APLOT	Haga	Hija	50/9	Boer	Mato	Annual	Pt. #	L	R	B	S	Case	Boer	Hija	Mato	Haga	50/9	Boer	Annual	Pt. #	L	R	B	S	Boer	Case	Boer	Mato	Haga	Annual	
1		T	4	6									3	9	2	1	1	1								7	7	1	8	1							
2		T	6	4								T	4	0	1	2	6								1	7	8	2	4	2			1				
3			3	3	4								4	1	1	8	1									7	9	3						5			
4	2	T	4	2		1	1						4	2		1	9								8	10											
5		T	1	9									4	3	1	2		4								8	1	1	8	1							
6	2	6	1		1	T							4	4	2		8								8	2	4	4		2							
7		1	7	T									4	5		4	6									8	3	3	2		5				T		
8		1	8	1									4	6	1	9										8	4	3	4	3							
9	8			2								T	4	7	2	3		5								8	5		3	7							
10				10									4	8		3	7									8	6	T	9	1							
11	T	1	9										4	9		2	8									8	7	T	10								
12	3	7	5						2			T	5	0		1	9									8	8	1	5	3	1						
13		1	7										5	1	2	6	2									8	9	2	6	2							
14	1		5						4				5	2	3	4	3									9	0	2	7	T		1					
15	1		9										5	3	2	4	4									9	1		4	T	6						
16	2	1	6	1					T				5	4	2	2	5									9	2		10								
17	2		7	1									5	5	1	1	7	1								9	3	6	1		3						
18	3		4							3			5	6	2	8										9	4	4	5	T					1		
19			10									T	5	7	2	6	2									9	5	3	1	3		3					
20	1		7						2				5	8	4	3	3									9	6	3	2		5						
21	2		3		1				4				5	9	2		8									9	7	5	3		1	1					
22		1	8	1									6	0		1	9									9	8	1	7		2						
23	2	T	6					1	1				6	1	1	8		1								9	9	2	3		5						
24	4		5		1							T	6	2	1	1	6		T	2						10	1			6	3						
25	2		4		3				1				6	3	1	1	8																				
26	T	7	10										6	4	3	6	1																				
27	7		2		1								6	5	4	5	1																				
28	3		6	1									6	6	2	4	3	1																			
29		8	T	2									6	7	1	6	3																				
30		1	9										6	8	5		4								1	8											
31	2		1						7				6	9	4		6																				
32	2		4						3				7	0	3									17		8											
33	2		3						5			T	7	1	5	1	4									10	*										
34	2		7						1				7	2	3	5	2																				
35	1		1	7					1				7	3	1	4	5																				
36			2	8									7	4	1	5																				4	
37	1		7										7	5	1	2	5																			2	
38			9						1				7	6		2	8																				

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bern

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 7

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS					Annual	
	busa	HIA	siH4	mwo	BdL	Hosp2	oppo	Ar10	Arca	Bier		SPCE
1	3	7	2									
2				13	26	1	1					9
3	2			13	7	4		2				
4	4	7		1	9							5
5	5			5	34							6
6	4	1		17	25	1						
7	5		8		12	1		1	2			
8	2		1		28				9	3		9
9	4			10	6		3		17			
10	3				58							6
X												
F												

jn comp

1987

Study/Location: Remulla WS  
 Allotment/ #: \_\_\_\_\_  
 Transect #: 8

Date: \_\_\_\_\_  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-																								
Pt. #	L	R	B	BOCK	BOER	CUSA	SLIC	MUTO	HIVA	ASIA	Annual	Pt. #	L	R	B	BOCK	BOER	MUTO	AKLOI	HIVA	CUSA	ASIA	OPPO	AKLOI	Annual	Pt. #	L	R	B	BOCK	BOER	MUTO	AKLOI	HIVA	CUSA	ASIA	OPPO	AKLOI	Annual							
1		1	7		1							3	9	2	3	2	3									7	7	3		5	T	T	1													
2	2	1	7		T							4	0	4	2	4										7	8		3	6		T	1													
3			1	9								4	1	+	3	7										7	9	T	2	8																
4		1	1	8								4	2	T	2	8		T	T							8	0		3	7											T					
5		1		4		5						4	3		1	1	5	3	T							8	1		1	5				1		2										
6		6	4	T								4	4	2	T	7		1								8	2		1	8				T	1											
7	2		1	1		3	3					4	5	1	2	7	T									8	3	2	2	6		T		T												
8	2	2	4	2								4	6	2	1	7		T								8	4	1	1		4	4														
9	1	4	3	1							1	4	7	1	1	7	1									8	5		1	4			2		1	2					T					
10	T		7	3								4	8	1	8	1		T								8	6	3	1	4		2	T													
11	2	1	5	2		T						4	9	T	8	1		T	1						T	8	7		6	2		2	T													
12		8	2	T	T							5	0	1	8	1	2									8	8	5	1				4													
13	5			5								5	1	2	4	2		2								8	9	5				5														
14	1	4		5								5	2		1	5	4									9	0	T	1	8				1												
15	3	1	5		1							5	3	1	3	1	5									T	9	1	5				5													
16	1	1	8		T							5	4	1	8		1									9	2	5	1		4															
17		2	8		T							5	5	1	1	7	1									T	9	3	7			1		2												
18	T	2	8		T							5	6	T	1	7	2									9	4	2	8				T								T					
19	T	8	2				T					5	7	3	1	4		1		1	T					9	5	1	4	5																
20	1	1	7	1			T					5	8		1	4	5	T								9	6	4	1			1	4													
21	1	2	4		3						T	5	9	1	T	8	1									9	7	3	1		3	3														
22	T	3	7									6	0	1	T	4	3						2			9	8	3	T	1		4	2													
23	2	2	2	1	T		1	2				6	1	4	6	T										9	9		6	3		T	1													
24	4	1		T		5					T	6	2	2	5	3										T	100	4	3		T		3													
25		1	6	3								T	6	3	2	1	4	3																												
26		2	8		T		T					6	4		3	7	T																													
27	1	1	5	1	1						1	6	5	2	1	1	4				2																									
28	1	2	6	1								6	6	T	4	4	1				1																									
29	4	3		2		1						6	7	1	2	2	5					1																								
30	2	1	4		3							6	8	T	1	7				T	2																									
31		3	2	1		4		T			T	6	9	2	4	3	1																													
32	7		3	T			T					7	0		T	10																														
33		2	8									7	1	T	1	7	1							1																						
34	3		3		4							7	2	1	3	3	2	1																												
35		1	8		1							7	3	2	1	4		3																												
36		9	1	T								7	4	1	T	2		2	1		4																									
37		6	3	1	T							7	5	1	1	7		T	1																											
38		6	4								T	7	6		2	6		2																												

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Rancho WS

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 8

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS					Annual	
	BOGR	MUTO	GO SA	BOER	ASTR	ARLO	EUPH	HISA	ERCO	Leek	STEP	SIH		SPCO
1	3	4	1	0	4									10
2	2	8	8	1	3									3
3	1	3	2	7	1	1	1	2						7
4	4	5	1	9			1							
5	3	4	5	1	8		1	1						
6	2	0	6		6	1		3	1					
7	7	5	4	1	2		1	3	1	1				12
8	8	1	2	7	9		1	4			1			4
9	1	7	4	1	3			9						12
10	3		2	1	8		1				1	1		
$\bar{x}$														
f														



1987 on comp

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: 9

Date: \_\_\_\_\_  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-													-SPECIES-													-SPECIES-												
Pt. #	L	R	B	S	GUSA	BOER	PROPR	MUDA	SPOR	FLOE	WROSS	Annual	Pt. #	L	R	B	S	BOER	PROPR	MUDA	SPOR	FLOE	WROSS	Annual	Pt. #	L	R	B	S	BOER	PROPR	MUDA	SPOR	FLOE	WROSS	Annual		
1	4				4		2						3	9	2										7	7	3											
2			5		3		2						4	0	4	1	2	3								7	8	4										
3	1		7				2						4	1		4	3	3								7	9	2		2	6							
4	4		3				3						4	2		1	5	1	3							8	0	7		4	3							
5			3		4		3						4	3	3		2	5	T							8	1	2		8								
6			5				5						4	4	2	1	2	5								8	2	3		4	3							
7	3				3		4						4	5		3	3	4								8	3			5			5					
8	2				8								4	6	2	3	1	4								8	4	2		7	1				T			
9	7						3						4	7	2		8									8	5			7						3		
10	2		2		T	4						1	4	8		3	7									8	6	2		3			5					
11	3		5				2						4	9	5		5			T						8	7	2		5	3					3		
12			1										5	0	4		5									8	8	2		3	5					5		
13			3				5	2					5	1												8	9	2	1	7								
14	5						5						5	2	2		5									9	0			10								
15			8				2						5	3	2	4	T									9	1	2		4	3					1		
16	2		4				3						5	4	6	3	1									9	2			9						10		
17	4		3				3						5	5	1	7	2									9	3	2	6		2							
18			2				4						5	6	6	1	3	T								9	4			9	1							
19	1		3				5						5	7	2	3	3	2								9	5	3		4			1	2				
20	3		3				4						5	8	2		2	6								9	6	1		7	2							
21			2				4						5	9		8	2									9	7			10								
22			2				4						6	0	5	1	3	1								9	8			5	T		T	2			3	
23	3		5		T	2							6	1		8	2									9	9	T		6	1	2	1					
24			3				2						6	2		2	6	T	1							10	0	2		4	4	T						
25	2		2				3						6	3		7	2	1								10	1											
26			3				4						6	4	2	5	3									10	2											
27			3				3						6	5		9	T									10	3											
28	3		4				3						6	6	8	2										10	4											
29	2						8						6	7	2		3	5								10	5											
30	2		5				3						6	8	1	7	2									10	6											
31	2		6				2						6	9	2	3	5									10	7											
32	2		1				3						6	0		8										10	8											
33	4		2				4						6	1	T	9	1									10	9											
34	1		4				3						6	2		10										10	0											
35	2						3						6	3		8										10	1											
36	6						4						6	4	6		1	2								10	2											
37	6						3						6	5	3	4	1	2								10	3											
38	2						5						6	6	2	6	2									10	4											

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 9

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS				Annual	
	Boer	Boer	Foa	Gosa	Lesq	Yugl	MTU	SPDH					
1	2	7	6										3
2		13	7	5	1								6
3	18		11										5
4		15	8	1		2							
5	11	3	13	1		1	2	2					7
6	4	10	3	1									6
7		12	3	1			4	1					2
8	3	7	2	2			6						3
9		15	3										3
10	0	12	5	1									4
X													
f													

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: One  
 Reader/Recorder: \_\_\_\_\_

Date: 6-30-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-													
Pt. #	L	R	B	S	Boer	Hija	Muta	Spur	Gusa	Sily	Annual	Pt. #	L	R	B	S	Boer	Hija	Muta	Spur	Gusa	Sily	Annual	Pt. #	L	R	B	S	Boer	Hija	Muta	Sily	Gusa	Spur	Annual
1	2	3			5							3	9	T	10									7	7	T	10								
2	6	4										4	0		10									7	8	5	3					Z			
3	5	2			3							4	1	1	6		3							7	9	7					Z	1			
4	5	1			4							4	2	10									8	0	4	4	1			1					
5	2	5			3							4	3	1	3		6						8	1		7			3						
6	5	5			T							4	4		10								8	2		9							1		
7	1	9										4	5		10								8	3		10									
8	6	2			Z							4	6	5	3		Z						8	4		10									
9	1	9			T							4	7	10									8	5		1					9				
10	1	9										4	8		9		1						8	6	T	10					T				
11	1	9										4	9		10		T						8	7	T	9					1				
12	+	10										5	0		10								8	8	1	9					T				
13	1	9			T							5	1		10								8	9	T	10									
14	5	4			1							5	2		9		1						9	0	T	10									
15	T	T			10							5	3		10				T				9	1	6	2					Z				
16		T			3				7			5	4		10				T				9	2	1	3					6				
17	Z	8			T							5	5		6				4				9	3	1	9									
18	3	7			T							5	6	3	Z	Z	3						9	4	4	6					T				
19	T	10										5	7		Z						8		9	5	9	1									
20	Z	1						7				5	8		8	T				Z			9	6		10									
21	1	9			T							5	9	T	10								9	7		4				6					
22	5	5			T							6	0	Z	8								9	8		9				1					
23	8	2										6	1		8	Z							9	9	T	9					1				
24	1	9										6	2	8	Z	T							100	T	8						Z				
25	T	10			T							6	3	1	9																				
26	Z	7			1							6	4	3	7																				
27	5	4			1							6	5	8		2																			
28	1	6			3							6	6	Z	4		4																		
29	5	5										6	7		9																				
30	3	5			Z							6	8	6	Z	Z								Z											
31		9						1				6	9	3	4	1																			
32		10										7	0	T	10																				
33	Z	3			5							7	1		5	5								Z											
34	1	7			Z							7	2	1	8	1																			
35	T	10										7	3	1	8	1																			
36		10										7	4	2	8																				
37	T	10										7	5	2	8																				
38	1	Z			5	Z						7	6	3	4																				

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 6-3-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: One

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS					Annual	
	Boer	Hya	Muta	SiHy	Sacr	Mupol	Gusa	Sprol				
1			2	3	10		3					
2			3	4	13							
3			4	7	3	2	1	1				
4					6	3	2					
5	4	6		4	5		5					
6	5	5	7		7							
7		7	7	3	11							
8		20	1	4	5		1					
9		1	11	11	11		2					
10	5	5	8	1	8		1					
X												
f												

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: TWO

Date: 6-4-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-										
Pt. #	L	R	B	Hija	Spec	Muta	Sily	Boer	Grusa	Annual	Pt. #	L	R	B	Hija	Spec	Muta	Sily	Boer	Grusa	Annual	Pt. #	L	R	B	Hija	Spec	Muta	Sily	Boer	Grusa	Annual
1	T		10	T							3	9		10								7	7		1	9						
2	T		10								4	0	1	9									7	8	T	10						
3			9	1							4	1		10									7	9	1	7	Z					
4			10								4	2	Z								8	8	0		10							
5			6	4							4	3	Z	7					1	T		8	1		10							
6	3		2	5	T						4	4		7						3		8	2		7		3					
7	1		9								4	5		7					3			8	3	1	8	1						
8			7	3							4	6	Z	3					5			8	4	T	10							
9			10								4	7		3	7							8	5	1	6				3			
10			5						5		4	8	1	9								8	6	3	7				T			
11	3		6	1							4	9		10								8	7		10				T			
12			10								5	0		6	4							8	8		10		T					
13	3		7	T							5	1	1	9								8	9		4	6						
14	3		4	3							5	2	Z	8								9	0	1	9							
15	8			2							5	3	1	4	5							9	1		10		T					
16									10		5	4	Z	8	T							9	2	8	1		1					
17	5		3	T					Z		5	5	5	4		1						9	3	1	9							
18	T		10								5	6	T	10	T							9	4		10							
19	1		9								5	7	Z	1					7			9	5				Z		8			
20			10								5	8	1	8					1			9	6	4	1					5		
21	1		9								5	9	5	5	T							9	7	T	10	T						
22	10										6	0	1	Z					7			9	8	5	Z	3						
23	8		2	T							6	1	2	8								9	9		10							
24	T		9	1							6	2	T	10	T							10	0		2				Z	6		
25	8		2	T							6	3	Z	7	1																	
26			10								6	4		10						10												
27	1		4	5							6	5		10																		
28			10	T							6	6	1	9																		
29			10								6	7		10																		
30	4		4	2							6	8		10																		
31	6		2	Z							6	9		10																		
32	3		4	3							7	0		10																		
33			9	1							7	1		10																		
34	T		10	T							7	2	Z	4	4																	
35	1		6	3							7	3	4	3	3																	
36	2		6	Z							7	4	10																			
37			10								7	5	4	3	3																	
38	1		8						1		7	6		1						9												

Study/Location: Bernalillo

Date: 6-4-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Two

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS			Annual
	Hija	Sper	Muto	Boer	Sihv	Arlol	Gusa	Stex	
1	13		5	28	2		1		
2		6	14	11	7		2	1	
3		22	8				1		
4		15					1		
5		5	9	7	11		1	1	
6		13	21						
7		16					2		
8	1	24							
9	2	20					1		
10	5	4				1	6		
X									
f									

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Three  
 Reader/Recorder: \_\_\_\_\_

Date: 6-3-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

SPECIES -											-SPECIES-											-SPECIES-											
Pt. #	L	R	B	Muta	SAGR	Arlet	Hija	Boer	Gusa	Annual	Pt. #	L	R	B	Muta	SAGR	Arlet	Hija	Boer	Gusa	Siky	Annual	Pt. #	L	R	B	Muta	SAGR	Arlet	Hija	Boer	Gusa	Annual
1			10								3	9	1	8									7	7	1	9							
2	1		9								4	0		10				T					7	8	1	7	Z						
3	Z		17								4	1		10									7	9	9	1							
4	4		6	T							4	2	4	3	Z	1							8	0	3	5			Z				
5	Z						8				4	3	1	9									8	1		10							
6			10								4	4		10									8	2	3	7							
7			10								4	5	3	5				2					8	3	3								
8	1		4					5			4	6	2	4	4								8	4	1	9	T		T				
9	8		Z				T				4	7		10									8	5	4	5	1						
10	4		6								4	8		6						4			8	6	7	Z	1						
11	3		5				2				4	9	Z	3	5								8	7		10							
12	1		1					8			5	0		10									8	8	4	4			Z				
13	4		5				1				5	1	1	9			T						8	9	3	6	1						
14	3		6				1				5	2		10									9	0	5	5							
15			7				3				5	3	1	8	1								9	1		10							
16	5		5								5	4	Z	8									9	2	7				3				
17	4		6								5	5		10	T								9	3		9							
18			4					6			5	6	7	Z	1								9	4		10							
19	1		9	T							5	7	4	5	1								9	5	T	10							
20	3		7		T						5	8	4					6					9	6		6							
21			9	1							5	9		10									9	7	1	7	Z						
22			1					9			6	0		10									9	8		10	T						
23	T		10								6	1		10									9	9		10	T						
24	T		10								6	2		10									100	1	8	T	1						
25			10								6	3		10																			
26			4					6			6	4	4	Z						4													
27	1		9								6	5	4	6																			
28	Z		8								6	6	T	10	T																		
29	1		9				T				6	7	T	10																			
30	3		7								6	8		6	4																		
31	4		3				3				6	9		9				1															
32	4							6			7	0	4	6																			
33			9					1			7	1	8	1				1															
34			10								7	2	Z	6				Z															
35	1		Z					7			7	3	8	1				1															
36			5				T	5			7	4	1	9				T															
37			3					7			7	5	9	1							T												
38	Z		6	1				1			7	6	7	1	Z																		

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 6-3-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Three

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES						FORBS AND SHRUBS				Annual	
	Socr	Hya	Moto	Sihy	Arlo	Mupol	Gusa	Socr				
1	14		2		1		1					
2	5	33										
3	2	32			1		1					
4	3	46										
5	9	12	8	2								
6	12	1	14				1					
7	4	32					1					
8	3	25	2	2				1				
9	11	10			2		1					
10	3	27	1	2	1		5					
X												
f												



RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Four

Date: 5-30-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

SPECIES -											-SPECIES-											-SPECIES-												
Pt. #	L	R	B	S	Hija	SACT	Muta	Boer	OPEN	Annual	Pt. #	L	R	B	S	Hija	SACT	Muta	Boer	OPEN	Annual	Pt. #	L	R	B	S	Hija	SACT	Muta	Boer	OPEN	Annual	Tenure	
1			9		1						3	9		8		2						7	7		8		2							
2			10								4	0		6		4						7	8		8		2							
3		1	9		T						4	1		7		3						7	9		10		T							
4			9		1						4	2		10								8	0		10									
5	1		8		1						4	3	T	10								8	1		8		2							
6	T		9		1						4	4	1	9								8	2	T	9		1							
7	T		10		T						4	5		10								8	3	T	10									
8	2		8		T						4	6	T	10								8	4		10									
9			7		3						4	7	2	8		T						8	5		10		T							
10	1		6		3						4	8	2	8								8	6	T	10									
11	2		7		1						4	9	1	6				3				8	7		9		1							
12			10		T						5	0	1	9	T							8	8	T	8		2							
13	4		5		1	T					5	1	1	9								8	9	T	10									
14	4		3		T	3					5	2	1	8		1						9	0		10									
15			9		1						5	3		10								9	1		9		1							
16			9		1						5	4	T	10								9	2	3	7									
17			9		1						5	5		6		4						9	3		10		T							
18	1		9								5	6		10								9	4		10		T							
19			4		6						5	7		9		1						9	5		10									
20	1		7		1	1					5	8	1	9								9	6		9		1							
21	Z		8								5	9		10		T						9	7	T	10									
22	Z		6		Z						6	0		10								9	8		9		1							
23	T		9				1				6	1	3	6		T						9	9		9		1							
24			8		Z						6	2	1	9								100		10										
25	1		8		1						6	3		10																				
26	1		9		T						6	4		10																				
27	4		4		Z						6	5		9		1																		
28			10								6	6	1	8				1																
29	1		9								6	7		7				3																
30	1		8		T	1					6	8	1	5		4						Σ												
31			9		1						6	9		10		T																		
32			10		T						7	0		8		2						Σ												
33			10								7	1	1	4		5						10	*											
34	T		10								7	2	5	2		3																		
35			10		T						7	3	8	2																				
36	T		10								7	4		6		4		T																
37	T		10								7	5		10		T																		
38			10		T						7	6		9		1																		

Study/Location: Bernalillo

Date: 5-30-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Four

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS				Annual
	Spgr	Boagr	Hija	Muto	Boer	Siky	Arlo-1	Socol	HaspZ	Open	Atca	
1	31	1	18									
2	17		13	7	4							
3	36		10	4				1				
4	43								1			
5	13		15	4		1				1		
6	57		5	4			1					
7	47		5								1	
8	43		6									
9	58							1				
10	76								1			
X												
f												

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Five

Date: 5-28-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-												-SPECIES-												-SPECIES-																											
Pt. #	L	R	B	S	Boer	Boer	HesAZ	Muta	JUMO	BOCU	EVAK	Hylac	ALL	Annual	Pt. #	L	R	B	S	Boer	Boer	Hylac	Stne	BOCR	HesAZ	ASTR	Annual	Pt. #	L	R	B	S	Boer	Boer	Hylac	EUPH	Stne	JUMO	HYAZ	Annual											
1		3		7											3	9	6		4							10	7	1																							
2			7		2										4	0	1		2	7								7	8	1																					
3			8		1										4	1	3		2	5								7	9	5																					
4			2		7	1									4	2	1		3	4				2				8	0	3																					
5			1		2	7									4	3			4	5				1				8	1	1																					
6	2			4		T				4					4	4	1	3	3		3							8	2	1	3	3																			
7			5		4	1									4	5	1		4	5								8	3			2	7																		
8			8		2										4	6			2	5		3						8	4	1	2	3																			
9			8		2										4	7			2	8		T						8	5	2			6	2																	
10			3		4										4	8			7	3								8	6			1	6																		
11			2		8										4	9			10									8	7	1			6																		
12			4		6										5	0									10				8	8	1			1	8																
13			3		6										5	1	1		6	3								8	9			2	6																		
14			5		5										5	2			3	3		4						9	0			2	7																		
15			6		4										5	3			4	6		T						9	1			1	8																		
16			4		4	1				1					5	4			3	7								9	2			5																			
17	3			4		3									5	5	1		1	7		1						9	3	T			10																		
18			4		4	T				2					5	6			2	7	1							9	4	1			8																		
19			3		5										5	7			5	5								9	5	1			9																		
20			4		3										5	8			3	7		T						9	6	3			7																		
21			2		5										5	9			9	1								9	7	3			7																		
22			2		4										6	0	1		1						3	5			9	8			7	3																	
23	2			4		1									6	1	1		1	2					6		10		9	9	3			7																	
24	1			3		6									6	2			3	7						10		100					5	5																	
25			2		8										6	3			5						5	10																									
26			2		8										6	4			3							10																									
27	1			1		8									6	5			3	5		2				3																									
28	1			1		9									6	6			6	3				1																											
29	3			3											6	7			1	3	4				2																										
30			3		4										6	8			4	1				5																											
31	1			2		8									6	9			4	6																															
32	1			4		2									7	0			3	7																															
33	1			3		6									7	1	T		2	8																															
34			4		6	T									7	2			2	5	1				2																										
35			3		3										7	3			1	2	4				3																										
36			6		4										7	4			1	9				T																											
37			4		6										7	5	T		5					5																											
38	4			4											7	6			2	1					7																										

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 5-28-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Five

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS					Annual			
	Boer	Boar	Hua	Stne	Boco	Arlo-1	S,hy	Muto	Lyph	Bohi		Erin	Euph	ASTR
1		24			11		1			(Hyac=1)		3	1	1
2		39			6		1			(Hyac=8)				1
3	7	31					1			(Hosoz=1)		1	3	1
4	10	7		1			2	6		(Erico2=1)		1		
5		8		4		11	1		2			1		
6	6	3		8			2			(Yupl=1)				3
7	6	11	2							5		(Pens=3)	1	
8	38			1						7	1	1		
9		14								8		8		
10		7										1		1
X														
f														



Study/Location: Bernalillo

Date: 5-28-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Six

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS							Annual
	Boer	Boagr	Bohi	Shy	Stne	Amo1	Socr	Boyu	Gusa	Open	Pens	Hasp-2	Euph	ASTR	
1	8		3	1	4	2			2	1					
2		16							4		4				
3			11	10			1				1	1	1		
4		27	21			2		(Eri1)=1			1	1	2	1	
5	2		36						1	(Alli)=3		4	2		
6	46	5						(Stex)=1	(Leev)=47	(Selo)=1					
7	10		15					5		3					
8	9	21			1				1		1	2	5		
9	4	18	2								4				
10	8		8	(Lere)=4		3		3	(Selo)=1	(Hyc)=1			3	1	
X															
F															

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Seven  
 Reader/Recorder: \_\_\_\_\_

Date: 5-30-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

SPECIES -											-SPECIES-											-SPECIES-																
Pt. #	L	R	B	Boog	Hila	Sacr	Muta	Haca	Guda	Sily	Arlo	Annual	Pt. #	L	R	B	Boog	Hila	Sacr	Muta	Guda	Sily	Arlo	Annual	Pt. #	L	R	B	Boog	Hila	Sacr	Muta	Guda	Sily	Arlo	Annual		
1	5		5										3	9		10										7	7	3	6	1								
2			10										4	0	T	8	Z									7	8	Z	1	6	1							
3	1		9										4	1	3	4	3									7	9	Z	4	4								
4	6		Z	Z									4	2	4	5										8	0		10									
5	T		9				1						4	3	1	10										8	1	T	9	1								
6	4		6	T									4	4		Z			8							8	2	1	8	1								
7	T		10										4	5	3	7										8	3	1	4	5			T					
8	1		Z	T			7						4	6	T	10										8	4		10									
9			4					6					4	7	T	10		T								8	5	1	Z			7						
10			5	4			1						4	8		10										8	6	T	9					1				
11	8		Z										4	9	T	10										8	7		10									
12	T		6	4									5	0		Z					T					8	8		8	Z								
13	3		7										5	1	1	4	5									8	9	5		5								
14			8	Z									5	2	1	5	4									9	0	Z	8									
15			9	1									5	3	T	10			T							9	1		10									
16			5				1	4					5	4		8	Z									9	2		10									
17	1		6				3						5	5		8			Z							9	3		10									
18	3		4	T			3						5	6		4			6							9	4	Z			8							
19	T		10										5	7		5			5							9	5	T	9	1								
20			Z	8									5	8		7	3									9	6	T	8	Z								
21	3		3	3			1						5	9		9	1			1						9	7	Z	4	4								
22	Z		5					3					6	0		6			4							9	8	4	5	1								
23	3		6				1						6	1		1			9							9	9	3	4	3								
24	T		9				1						6	2	Z	8										100	T	9			1							
25	1		7				Z	T					6	3		10																						
26	8		Z										6	4	Z	4	4																					
27	Z		4				4						6	5	Z	7	1				T																	
28	3		7										6	6	1	5	4																					
29	5		4				T				1		6	7	Z	Z				6																		
30	T		10										6	8	1	9											Z											
31	T		8				Z						6	9		1				9																		
32	1		3	6									7	0		Z				8	Z						Z											
33	T		10										7	1	3	4	3										10		*									
34	Z		5				3						7	2		3	7																					
35	3		7										7	3	Z	2	6																					
36	4		5					1					7	4	Z	8																						
37	3		7	T									7	5	5	3				Z																		
38	Z		7	1									7	6		10																						

Study/Location: Bernalillo

Date: 5-30-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Seven

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS					Annual
	Boar	Boer	Hya	Muto	Si hv	Allo	Alli	Spgr	Gosa	Atca	Mamm	Hasp	
1									3	1		1	7
2	2	1		1	2			5					8
3	3			1	4		4	1	9			1	6
4	5		2	6	1				5				
5	1	9			3		2		2	5			3
6	2	4			1	8	4		7	1			1
7	1	3	6				1	1	4	2	1		
8	2	1	2			2			4				
9	1		1	8		3		1	1	3			
10	4	6					1		3				1
X													
f													



RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Eight  
 Reader/Recorder: \_\_\_\_\_

Date: 5-28-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

-SPECIES-												-SPECIES-												-SPECIES-																	
Pt. #	L	R	B	S	Boer	Boer	Gosa	ASTR	Hys	MUTO	Other	Annual	Pt. #	L	R	B	S	Boer	Boer	Gosa	ASTR	Hys	MUTO	Other	Annual	Pt. #	L	R	B	S	Boer	Boer	Gosa	ASTR	Hys	MUTO	Other	Annual			
1	3		5		T	Z							3	9			8	1							7	7	1			3											
2			10										4	0			9	1								7	8		Z	8											
3	T		10										4	1			8	2								7	9			10											
4	3		6		1								4	2			7	1				Z				8	0		10								T				
5	Z		4					4					4	3			7	3								8	1		10												
6	T		10										4	4			8					Z				8	2	1	8			1									
7	1		7			Z							4	5			8	Z								8	3	3	6			1									
8			10		T								4	6			6	4								8	4	1	7			1		1							
9			9					1					4	7			1			9						8	5	T	6			T									
10			7					1		1			4	8			10									8	6		8			Z									
11	T		10										4	9	1		9									8	7		10												
12			1					9					5	0			9	1								8	8		10												
13							5	5					5	1			9	1								8	9		8		1	1									
14	1		6				1	Z					5	2			9	1								9	0		5		4			1							
15	5		3		Z								5	3			6	4								9	1		10												
16	6		3		1								5	4	1		7				Z					9	2	6	Z		Z										
17	Z		8										5	5	1		9									9	3	5			5										
18	1		9										5	6			9	1								9	4	6	1	1	Z										
19	1		9										5	7			5	Z			3					9	5	1	7		Z										
20			9					1					5	8			9	1								9	6	1	Z			7									
21			8					Z					5	9	3		7				T					9	7	1	Z		7										
22	T		10										6	0			8	1		1						9	8	1			Z	1	6								
23			Z		1		6		1				6	1	1		9									9	9		10												
24	1		8		1								6	2			9	1								100	4	4			Z	T									
25			6		4								6	3			9	1				T																			
26							10						6	4	T		10																								
27			10		T								6	5	6		3	1																							
28			9		1								6	6			10																								
29			Z		8								6	7			6	1			3																				
30			8		T		Z						6	8	1		9				T																				
31			9		T			1					6	9	7		Z	1																							
32							10						7	0	7		3	T																							
33	1		9										7	1	5		3	Z			T																				
34			5		1		4						7	2			8	Z																							
35	1		9										7	3			7						3																		
36			3		7								7	4			8						T	1																	
37			10		T								7	5			9	1																							
38			10										7	6			8						Z																		

Study/Location: Bernalillo

Date: 5-28-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Eight

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES						FORBS AND SHRUBS						Annual
	Boer	Boar	Hya	Muto	Arlo	1 spcr	Gusa	Astr	Saha	Stax	Ascl	belo	
1		2	32				8	1	7				
2	25	31	7	11			3	1					
3		16	7	19			9	2					
4	27	1	6	3				1					1
5	11	12		22	2			1		1			
6	7	28		5	1		1	1					
7	4	46		13	2								
8	15	22		22			1	1		1			
9	18	20		8		2				1			
10		30	18	17			3	1	3		3	1	
$\bar{x}$													
f													

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/ #: \_\_\_\_\_  
 Transect #: Nme

Date: 5-28-80  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-																							
Pt. #	L	R	B	S	Boer	Boer	Hyd	Mulo	Gusa	ASTR	Annual	Pt. #	L	R	B	S	Boer	Boer	Hyd	Mulo	Spca	Gusa	ASTR	Yug	stex	Tennut	Pt. #	L	R	B	S	Boer	Boer	Hyd	Mulo	Spca	stex	SPHA	JUMO	ASTR	Annual				
1		4	6						T			3	9	Z	3							H						7	7	1	6		3												
2		1	9						T			4	0		8	Z												7	8		9				1										
3			10									4	1	3	7													7	9		7			3											
4			10									4	2	T	10													8	0	1	8		1												
5			4	6								4	3		8	Z												8	1	Z	8														
6			10									4	4		8		Z											8	2	1	6	2				1									
7			8					Z				4	5		9		1											8	3		6	3									1				
8	4		6									4	6		10													8	4		6	4													
9	1		6	1					Z			4	7	3	1	6												8	5		9	1													
10	1		1						8			4	8		9	1												8	6	T	4	T								6					
11	1		6	3								4	9		3	1								6				8	7		6	4													
12			10									5	0	1	3	6												8	8		8	Z													
13	Z		7	1								5	1											10				8	9	1	7	Z													
14	1		6						3			5	2	Z	1	1								6				9	0		10									10					
15	1		5						4			5	3		5	T	5											9	1	T	9	1													
16			10	T								5	4		6	4												9	2	T	9	1													
17			6	4								5	5		7	3												9	3	T	9	1													
18			3	1					6			5	6	2	Z	6												9	4		10														
19	T											5	7	3	6	1												9	5		8	Z													
20			8	2								5	8	3	4	3												9	6		10														
21	3		3						4			5	9	1														9	7	1	8														
22			6						4			6	0	T		T			T									9	8	8	1	1													
23	1		9	T								6	1	5	2	Z	1											9	9		8	1	1												
24	1		6	3								6	2	1	7	2												10	0	1	6	3													
25	3		6	1								6	3	1	6	3																													
26	8		1	1								6	4	4	2		4																												
27	3		4	3								6	5	6			4																												
28	5		2	3								6	6		4		Z		1	3																									
29	3		2	5								6	7		7	3																													
30	5		5									6	8		2	3	5																												
31	1		1						8			6	9	2	6	1																													
32	5		3	Z								7	0	3	5																														
33	5		2	3								7	1	6	3	1																													
34	2		7	1								7	2	1	9	T																													
35			2	8								7	3		10																														
36	2		2	6								7	4				3																												
37	3		6	1								7	5	1	Z																														
38	1		2	4					3			7	6		9	1																													

Study/Location: Bernalillo

Date: 5-28-80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Nine

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS					Annual	
	Boer	Boqr	Hija	Muto	Spcr	Gusa	ASTR	Yugl	Hymel	Spha		Selo
1	1	24		10				3				
2	5	34					1	6		3		
3	44							2				
4	4	23		6	1		2		1		3	
5	19	5			1			1	1		3	1
6	17	13	9	3								
7	13	6	5	7	4		1	2				1
8	11	20		4	5			2				
9	5	26	17	9				1				
10	24						1					
X												
f												

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: 7#1

Date: 8-16-84  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: KM/JS

-SPECIES-										-SPECIES-										-SPECIES-																			
Pt. #	L	R	B	S	Spec	Hija	Muta	Boer	Gusa	Annual	Pt. #	L	R	B	S	Spec	Hija	Muta	Boer	Gusa	Opoo	Mycop	Annual	Pt. #	L	R	B	S	Spec	Hija	Muta	Boer	Gusa	Alupol	Sily	A. Col	Annual		
1			4	5							3	9	1	9	T									7	7	3	1	6	T										
2			8	1							4	0		7				3						7	8		9									1			
3			4	6		T					4	1	T	6	3	1								7	9			8				2				3			
4			7	3							4	2	2	2	6									8	0	2	5												
5			1	8		1					4	3			10									8	1	1				9									
6			2	9		T					4	4	T	10									T	8	2	1	9												
7			1	5		3					4	5		8									2	8	3	T	10												
8			2	2		6					4	6	1	4	T	5								8	4			10											
9			T	9		1	T				4	7	2		8									8	5	4	4	T				12							
10			T	10		T					4	8	1	9										8	6	2		8											
11			T	8		2					4	9		6		4								8	7	T	10												
12			1	5		4	T				5	0	T	6		4								8	8	1	8	T								1			
13			1	9			T				5	1	T	10										8	9	1	9												
14			T	6			4				5	2	T	9	1									9	0			10											
15			1	9							5	3	T	9		1								9	1	2		8											
16			6					2	12		5	4	3	7										9	2	7		1			5			2	T				
17			1	9		T					5	5		3	4									9	3	T	10												
18			1	2		T		7			5	6			3			7						9	4	T	10	T											
19			1	5		3					5	7	2						18					9	5	5	5	T											
20			T	4		3		2			5	8	T	6	4				7					9	6	T	10												
21			1	4		5					5	9	T	10										9	7	T	3			7									
22			1	9		T					6	0	4	6		T							T	9	8	3	5		2								T		
23			1	9							6	1	5	4	1									9	9	1	9				8								
24				10				8			6	2	1	7	2									100	1	5	4												
25				3		6	1	T			6	3	1	8	T	T			1					6	4	1	8	T											
26			T	10		T					6	4	T	5				5						6	5	T	5												
27			1	9							6	5						10						6	6	1	3	1	5										
28				7		1	2				6	6	1	3	1	5								6	7	1	9												
29			1	8				1			6	7	9		1									6	8	1													
30			2	4		4		T			6	8	1					9						6	9	5	3	T											
31			1	7		T		5			7	0	1	9										7	1	1	9												
32				7		1		2			7	1												7	2	1													
33			6				3				7	1												7	3	3	4	3											
34			3	6		1					7	2	1					9						7	4	1													
35			T	10							7	3	3	4	3									7	5	3	4	3											
36			1	9							7	4		7				3						7	6	1	9												
37			2	6		2		1			7	5	3	5		2								7	6	2	6	2											
38			4	6		T					7	6	T	10										7	6	T	10												

$L = 14.775$   
 $R = 0.300$   
 $BS = 59.200$   
 Spec 7.075  
 Hija 4.200  
 Muta 6.250  
 Boer 2.475  
 Gusa 10.750  
 Opoo 0.300  
 Mypo 0.625  
 Sily 0.100  
 Anlo 0.300  
 ANNU. 0.350

106.70

Day/Location: Bernalillo  
 Plotment/#: \_\_\_\_\_  
 Transect #: 1

Date: 8-16-84  
 Pasture: \_\_\_\_\_

Vegetation Type: \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_  
 Reader/Recorder: KM/JS

Plot #	GRASSES							FORBS AND SHRUBS			Annual
	Hila	Muta	Spec	Boer	Sihy	Mupo	Arlo	Gusa	OPUN	Spin	
1	002	006	016	006				002	001		50
2		015	006					004			
3	009	001	008					003			30
4	003	011	002								15
5	002	009	003	008				001			
6			005	003	001			001			27
7				005	001	001		002			07
8		003			001	002		002	001		17
9		003	006					001			16
10		003	003			002		004			
$\bar{x}$	1.60	5.10	4.90	2.20	0.30	0.30	0.20	2.00	0.10	0.10	16.20
$\sigma^2$	.4	.8	.8	.4	.3	.2	.1	.9	.1	.1	.7

Study/Location: Barro Colorado  
 Allotment/#: \_\_\_\_\_  
 Transect #: 2

Date: 8-14-84  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: GD-22

-SPECIES-							-SPECIES-							-SPECIES-							
Pt. #	L	R	B	S	Annual		Pt. #	L	R	B	S	Annual		Pt. #	L	R	B	S	Annual		
1	1		7				3	9						7	7						
2	1		10				4	0						7	8						
3	2		1				4	1						7	9						
4			8				4	2						8	0						
5	2		4				4	3						8	1						
6	2		7				4	4						8	2						
7			8				4	5						8	3						
8	5		9				4	6						8	4						
9			9				4	7						8	5						
10			8				4	8						8	6						
11			8				4	9						8	7						
12			10				5	0						8	8						
13			6				5	1						8	9						
14			6				5	2						9	0						
15			6				5	3						9	1						
16	6		4				5	4						9	2						
17	8		2				5	5						9	3						
18	1		9				5	6						9	4						
19	2		8				5	7						9	5						
20			8				5	8						9	6						
21			5				5	9						9	7						
22			6				6	0						9	8						
23			4				6	1						9	9						
24			6				6	2						10	0						
25			8				6	3													
26			5				6	4													
27			5				6	5													
28			6				6	6													
29			8				6	7													
30	5		4				6	8													
31	5		5				6	9													
32	6		2				7	0													
33			6				7	1													
34			8				7	2													
35			5				7	3													
36			0				7	4													
37			0				7	5													
38	2		6				7	6													

$L = 27.825$   
 $R = 0.300$   
 $SS = 54.900$   
 $S_{per} = 4.525$   
 $S_{Hija} = 3.725$   
 $S_{Gusa} = 6.700$   
 $S_{Muta} = 5.000$   
 $S_{Boer} = 3.750$   
106.725  
 ANNU. 0.250  
 FS-RM-1651 .6/30/83 (Rev.) REF

Study/Location: BERNALILLO W.S.

Date: 8/16/84

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 2

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: GD/EP

Plot #	GRASSES					FORBS AND SHRUBS					Annual
	Uria	Socr	Archl	Veto	Boer	Bosa	Rain				
1	5	3	1			5					
2		13				2					
3	2	16									
4		7				2					
5		3		5							
6		2		3	6	1	1				
7		15				2					
8		7		2							
9		2		8	3	1					1
0	3	2		2	13	2					
	1.00	7.00	0.10	2.00	2.20	1.80	0.10				0.10
	.3	1.00	.1	.5	.3	.8	.1				.1



Study/Location: Bernalillo N.S.

Date: 8/16/84

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T.#3

Vegetation Type \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: JS/KM

-SPECIES-							-SPECIES-							-SPECIES-																	
Pt. #	L	R	B	S	Spoc	Boqr	Hija	Gusa	Muta	Annual	Pt. #	L	R	B	S	Spoc	Hija	Gusa	Muta	Annual	Pt. #	L	R	B	S	Spoc	Boqr	Hija	Gusa	Muta	Annual
1	1	6	3							T	3	9	7	8						T	7	7	7	8						T	
2		10								T	4	0	1	6	3						T	7	8	3	7						T
3	6	3			1						4	1	T	10							T	7	9	1	8						T
4	2	8									4	2	6	1	3							8	0	2	6						T
5	5				4	2					4	3	T	9	1							8	1	1	8		1				T
6	T	10									4	4	2	8		7						8	2	5	2		2				T
7		10									4	5	3	5		2						8	3	6	1	1					T
8	1	9			T					T	4	6	T	10							T	8	4	1	4		4				T
9	3	6			T					T	4	7	T								T	8	5	4	6						T
10	2	1			T						4	8	T	9	1							8	6	6	3		1				T
11	5	4			1						4	9	5	4	1							8	7	T	10						T
12	4	6								T	5	0	T	10								8	8	1	1		8				T
13	9	1			T	5				T	5	1	T	10								8	9	2	5		1				T
14	2	5			3						5	2	T	8		2						9	0	4	6		T				T
15	2	8			T						5	3	3		6							9	1	T	10						T
16	2	6			1	T					5	4	2	8		3						9	2	2	7		6				T
17	4	5			1					T	5	5	2	5	3							9	3	2			6				T
18	1	T			1					T	5	6	4	3	T						T	9	4		10						T
19	3	6			T					1	5	7	2	7	T							9	5	T	9				T		T
20	T	10				1					5	8	6	2	T						T	9	6	6	1		4				T
21	T	10			T						5	9	3		7							9	7	8	1	1					T
22	2	8				5					6	0	T	10								9	8	2	8		T				T
23	1	9									6	1	T	6		4						9	9	1	5		4				T
24	T	10				T					6	2	T	2		7						100	T		8		1				T
25	T	9				T				T	6	3	1	5	3							1	T								T
26	3	7									6	4	3		2							1	T								T
27	1	8			1						6	5	1	8	1							1	T								T
28	3	5			2					T	6	6	3	7	T							1	T								T
29	10					T					6	7	1	1	8							1	T								T
30	1	8			T	T				T	6	8	2	1		1				6		1	T								T
31	1	9									6	9	1	5		2						1	T								T
32	5	5				1					7	0	5		2							1	T								T
33	6	2				6					7	1	1		4							1	T								T
34	1	8			1	T					7	2	5	3	T							1	T								T
35	1	7			T	T				T	7	3	1	1		3						1	T								T
36	1	8			T	T					7	4	6	1		2						1	T								T
37	2	7			1						7	5	4	1		2						1	T								T
38	2	8									7	6	1		9							1	T								T

L = 23.050  
R = 0.200  
SS = 55.6

Spoc 1.650  
Boqr 0.200  
Hija 10.735  
Gusa 2.925  
Boer 0.100  
Muta 1.925

100.625

ANNU. 4.750

Study/Location: Bernalillo WS

Date: 8/16/84

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T#3

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: JS/KM

Plot #	GRASSES						FORBS AND SHRUBS				Annual	
	Hira	Soot	Boaf	Mith	Boaf	Arhol	Cosa	Spin				
1	015	002	001				003					
2	005					001	002					
3	013	003		001	002		001	001				
4	004	004					005					
5	001	003		005			003					
6	009	003		004								
7	023	001										
8	013	004										
9	011	002					001					
10	011			003			002					
$\bar{x}$	10.40	2.20	0.10	1.30	0.20	0.10	1.70	0.10				
f	.10	.8	.1	.4	.1	.1	.7	.1				



Study/Location: Bernalillo WS

Date: 8-15-84

Allotment/#:

Pasture:

Transect #: 4

Vegetation Type:

Habitat Type #:

Reader/Recorder: K-135

Plot #	GRASSES							FORBS AND SHRUBS				Annual	
	Spur	Mato	Bogt	Poer	Bahi	Hija	Boba	Spin	Oonn				
1	024		003	002									25
2	012	009		016	001								25
3	019	004		005		002		002					55
4	031							005					
5	73	3		3		7			1				
6	14	4						11					2
7	9					5		1					2
8	12					6		3					6
9	26							7	1				1
10	16							3					
$\bar{x}$	16.50	2.00	0.30	2.60	0.10	2.00	3.00	0.30	0.10				11.50
F	1.0	.4	.1	.4	.1	.4	.6	.2	.1				.6

Study/Location: Pemalillo Watershed

Date: 8/15/87

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T.#5

Vegetation Type \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: JS/KM

-SPECIES-											-SPECIES-											-SPECIES-														
Pt. #	L	R	B	S	Yucca	Gusa	Bohi	Jumbo	Hyme2	Boer	Boer	Annul	Pt. #	L	R	B	S	Bohi	Jumbo	Hyme2	Boer	Boer	Annul	Pt. #	L	R	B	S	Bohi	Jumbo	Boer	Boer	Annul			
1	1	2	2	5									3	9	3	7		T						7	7	1	2	7								
2	1	1		8									4	0	2	1	6							7	8		7	3								
3	4	6											4	1		8								7	19	T	2	7								
4	T	1	6										4	2	T	1	9		T	1				8	0	T	3	7								
5	4	6											4	3	3	7								8	1	1	2	7								
6	1	3	5										4	4	2	8								8	2	T	1	0								
7	T	2	7										4	5	1	9								8	3		4	6								
8	T	2	6										4	6	1	0								8	4		2	8								
9	4	6											4	7	Z	2	6							8	5	Z	1	7								
10	3												4	8	1	2	7							8	6		2	8								
11	1	0											4	9	7	3								8	7		4	6								
12	1	0											5	0	T	4	6							8	8		1	2	6							
13	7	1											5	1	9	1								8	9	T	4	6								
14	8	2											5	2	T	4	6							9	0		4	6								
15	5	4											5	3	T	1	9							9	1		1	0								
16	9												5	4	T	1	0							9	2	1	7									
17	1	2	5										5	5	Z	5	2							9	3	T	2	7								
18	3												5	6	T	6	4							9	4		1	3	6							
19	Z												5	7	T	1	7							9	5		1	1								
20	Z	5	3										5	8	T	9								9	6	T	4	6								
21	2	8											5	9	T	3	7							9	7	T	7	2								
22	8	2											6	0		6	4							9	8		1	2	5							
23	3	2											6	1	T	3	7							9	9		1	8								
24	T	4	5										6	2		2	5	5						100			1	1	6							
25	1	10											6	3	T	7																				
26	2	8											6	4	T	2	7																			
27	1	5											6	5	T	1	0																			
28	T	9											6	6	4	6																				
29	1	7											6	7	T	1	7																			
30	1	2	6										6	8	T	8																				
31	1	9											6	9		5	5																			
32		2	8										7	0		4	6																			
33		2	8										7	1		7	3																			
34		3	7										7	2	1	8																				
35	3	5											7	3		3	7																			
36		1	0										7	4		9	1																			
37	T	5	5										7	5		7	3																			
38	1	3	4										7	6	T	5	5																			

$\bar{L} = 11.200$   
 $\bar{R} = 24.000$   
 $\bar{B} = 56.625$   
 Stne 1.325  
 Gusa 1.300  
 Bohi 3.250  
 Jumbo 12.900  
 Hyme2 0.250  
 Boer 1.325  
 Boer 0.850  
 Arte1 0.125  
 Yucc 0.125  
 ANNUL 0.125

113.395

Location: Bm. W.S.  
 Plotment/#: \_\_\_\_\_  
 Transect #: T.#5

Date: 8/15/81  
 Pasture: \_\_\_\_\_

Vegetation Type: \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: JS/KM

Plot #	GRASSES					FORBS AND SHRUBS			Annual
	Stne	Bahi	Boer	Boer	Arkel	Yucca	Cousa	Hasoz	
1	007	005				002	001	001	
2		029	009						
3	002	005	029						
4		015		003	001			003	01
5		004							05
6		010	014						02
7		007	002	016					
8		004	004	009					
9		007	002	002					02
10		043							
$\bar{x}$	0.90	12.90	16.00	3.00	0.100	0.200	0.100	0.400	1.00
$F_{.05}$	.2	1.00	.6	.4	.1	.2	.1	.2	.4



Study/Location: Bernalillo WS

Date: 8-15-84

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 6

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: EP-GO

Plot #	GRASSES							FORBS AND SHRUBS							Annual
	Arfel	Boer	Boer	Bahi	Seco	Stne	Bocu	ERIG	Oppo	Gisa	Leer	HAPL	Jumo	VERB	
1	005	008	006					001							04
2		035	006	001				004							02
3	004	019	002		001				002						07
4		029	019	009		003	007		HASP2 004					001	02
5		003	017	005							021				01
6		010	002	029					002					001	
7		27	002	41				001							
8					Stn					001		001			07
9		044										001	001		01
0	001	004	020	009	001	004	004		000						03
					Stn		Bocu		000						
	1.0	17.9	7.4	9.4	0.3	0.7	0.7	0.6	0.3	0.3	0.3	2.1	0.2	0.1	0.2
	0.3	0.9	0.8	0.6	0.2	0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.8
					Stco		Specr		HASP2						
					0.1		0.4		0.6						
					0.1		0.1		0.2						





Location: Bernalillo

Date: 8-15-84

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transact #: 7

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: JS/GG

Plot #	GRASSES							FORBS AND SHRUBS				Annual	
	Hix	Bog	Sper	muta	Siny	Arlo	Atca	Gusa	Hacr	OPUN			
1	9		5	1	2			2					6
2		37		18									25
3		6	5	18		2		2	3				26
4	017	009	002					008					07
5		029		008				003					
6		024	001	023				001					03
7		012				<u>Ber1</u>		001	004	001	001		
8		027				016							17
9				004	004	025		002					18
10		045						003		001			16
						<u>Ar161</u>							
$\bar{x}$	2.6	18.6	1.3	7.2	0.7	0.2	0.1	2.2	0.3	0.1			11.8
f	0.2	0.8	0.4	0.6	0.3	0.1	0.1	0.8	0.1	0.1			0.8
						<u>Ber</u>							
						4.5							
						0.3							

Study/Location: Bearcreek, WS

Date: 8-15-84

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 8

Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: GO-EP

-SPECIES-											-SPECIES-											-SPECIES-																						
Pt. #	L	R	B	Boer	Boer	Gusa	Muta	Arb	ASTR	Ann	Annual	Pt. #	L	R	B	Boer	Boer	Gusa	Muta	Arb	ASTR	Ann	Annual	Pt. #	L	R	B	Boer	Boer	Gusa	Muta	Arb	ASTR	Ann	Annual									
1	2		4	4								3	9	1	7	2								7	7	4		3																
2		1	9									4	0	2	3	5								7	8			9																
3		1	9									4	1	1	8	1								7	9	T		10																
4	1		7		2							4	2	3	5		1	1						8	0	1		8		1														
5	2		5		3							4	3	2	5	3	T							8	1			10	T															
6	1		9	T								4	4	3	3			4						8	2	T		7	3															
7	2		5			3						4	5	1	7	T	2							8	3	1		6		T			5											
8	1		7	2								4	6	2	6		2							8	4	1		3	4				2											
9	1		8	1								4	7	1	8		1							8	5	1		3	4				2											
10	1		4	5								4	8	T	10									8	6	1		7	T				1											
11			8	2		1						4	9		9		T							8	7			10																
12	1		5		4							5	0	1	6	3								8	8	1		6	5															
13	2				4							5	1	1	6	2	1							8	9	3		2	5	T														
14	3		3	4	T							5	2	1	7	2								9	0	1		5			4													
15	2		3	5								5	3	2	4	4								9	1	3		2	3															
16	1		7	2								5	4	1	8	1								9	2	2		3	T				8											
17	T	1	9		T							5	5	T	8	2								9	3	7		2		T														
18	1		9		T							5	6	2	5	3								9	4	2		3		1			6											
19			10	T								5	7	T	4	6								9	5	2		5		3														
20	1		4	5								5	8	1	8	1								9	6	1		3		2	4													
21	1		5	3	T							5	9	1	8	1								9	7	2		1		7			T											
22	T		10									6	0	T	1	5								9	8	2		2		2			3											
23	1		4	1								6	1	1	9	T								9	9	T		8																
24	1		1	5								6	2	T	7	3								10	0	3		2		5														
25	2		6	2								6	3	3	3	3	1							10	0	3		3		3														
26	2		2	4								6	4	2	8									10	0	2		8																
27	1		7	T	2							6	5	1	5	4								10	0	2		5		4														
28	2		7		1							6	6	1	9									10	0	2		9																
29	2		2		6							6	7	3	2	2	3							10	0	2		9																
30	1		5		4							6	8	1	9	T								10	0	2		9																
31	1		1	8								6	9	3	2		5							10	0	2		9																
32	3		7	T								7	0	1	9		T							10	0	2		9																
33	1		9									7	1	3	5	2								10	0	2		9																
34	2		4		4							7	2	1	4									10	0	2		9																
35	T		9		1							7	3	3	3									10	0	2		9																
36	T	2	8		T							7	4	T	7									10	0	2		9																
37	T		10		T							7	5	2	6		T							10	0	2		9																
38			10									7	6	7	7		T							10	0	2		9																

Study/Location: BERNALILLO WP

Date: 9-15-84

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 9

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: SD-ED

Plot #	GRASSES				FORBS AND SHRUBS			Annual
	Bncr	Muto	Bncr	Arlob	DETR	Gusa	Soc2	
1	18				3	3		2
2	10	6	3			1		
3	7	4	11		1	1		
4	14	3		2				
5	12	2	4		1	1		2
6	8	2	7		5			1
7	2	2	14		1	1		1
8	9	7			4	7		
9	10	4	9		4			
10	11		7			5	2	
$\bar{x}$	10.9	3.0	5.5	0.2	11.9	11.9	0.2	0.6
$\sigma$	1.0	0.8	0.7	0.1	0.7	0.7	0.1	0.4

Study/Location: Bernalillo W-5  
 Allotment/ #: \_\_\_\_\_  
 Transect #: 9

Date: 8-15-84  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: KM/SS

-SPECIES-											-SPECIES-											-SPECIES-																		
Pt. #	L	R	B	S	Boyr	Gusa	Spec	Boer	ASTR	YUCC	Annual	Pt. #	L	R	B	S	Boyr	Gusa	Spec	Boer	ASTR	YUCC	Mulo	MJa	Spec 1	Annual	Pt. #	L	R	B	S	Boyr	Gusa	Spec	Boer	ASTR	Jumbo	Mu to	Annual	
1		4	2		2	1	1					3	9	6			9									7	7	T		6	4									
2			2	8								4	0	3	3	4										7	8	L		3						T		6		T
3				10	T							4	1		4	3	3									7	9	T		3	4							3		
4	T		10	T								4	2			9				1			T			8	0	1		7				2						
5	3		1	6	T							4	3			7							3			8	1			7				T	3					
6			8	2								4	4	1		4	5									8	2			3	7									
7			4	6								4	5			7							3			8	3	1		9	T									
8	3		6						1			4	6	T		8	2	T					T			8	4	4		5				1						
9	2		4	4								4	7	L					9							8	5			8				2						
10			4	3					3			4	8	T		10										8	6	T		10										
11	1		6	3								4	9	1		1				8						8	7			3				7						
12			10	T		T						5	0	2					8							8	8			5	5									
13	1		5	4								5	1	3					T			17				8	9	1		6	3					6				
14	1		9	T			T					5	2	4					3			10				9	0			10										
15			10									5	3	2	6				2							9	1	T		7	T			3	T	9				
16	1		4	2					6			5	4	1	5	4			T							9	2	3		6				3	T	7				
17	T		6	4								5	5	T		2	8									9	3	1		6					3					
18			9	1								5	6	3	3				4							9	4		1	9										
19	T		7	3			T					5	7	2	4				4							9	5	T		7				3						
20			9	1								5	8		1	3	6			6						9	6	T		8				2	T					
21	1		9	T								5	9	1	6	3										9	7	1		9				T	T					
22			10			T						6	0		9	1			T				T			9	8	3		7				T	T					
23	1		4			5						6	1	1	3		1	4					1			9	9			3	7			T						
24	2		7			1						6	2	1	5	4			T							10	0	T		3	3			4						
25	3		7			T						6	3	3	4	3										10	1			3										
26	4		6									6	4	4	3	3										10	2			3										
27	2		7			1						6	5	4	3	3										10	3			3										
28	1		4			5						6	6	3	6				T				1	T		10	4			3										
29	1		2			7						6	7		3	6	1									10	5			3										
30	2		6			2						6	8	3	1	5			1					T		10	6			3										
31	2		7			1						6	9		6	4										10	7			3										
32	6		2			2						7	0	1	8				1							10	8			3										
33	3		5			2						7	1	1	6				3							10	9			3										
34	1		3			6						7	2	T	10	T										10	10	T		3										
35	2					8						7	3		10											10	11			3										
36	5					5			2			7	4	3	2	3	1									10	12			3										
37	T		3			7	T					7	5	T	5	5										10	13			3										
38	1					9						7	6		7	3										10	14			3										

12.4  
 11.1  
 53.1  
 Jumbo 2.2  
 Ann. 0.125  
 106.25  
 Boyr 14.6  
 Gusa 1.425  
 Spec 0.35  
 Boer 14.1  
 ASTR 1.925  
 YUCC 3.1  
 Mulo 1.575  
 MJa 0.225  
 Spec 1 0.225

Plot/Location: Bernalillo WS  
 Plotment/#: \_\_\_\_\_  
 Transect #: 9

Date: 8-15-84  
 Pasture: \_\_\_\_\_

Vegetation Type: \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: KM/JS

Plot #	GRASSES					FORBS AND SHRUBS				Annual
	Boar	Boer	Muto	Spec	Hija	ASTR	Gusa	YUCL	Soco1	
1	025	018				011				
2	052	006				003	002			
3		057				003				
4	019	020	004				001	002		
5	004	054		001		003		001	002	
6	012	047		001	003					
7	009	058		001		002	001			
8	020	040	006	004		002	001			
9	047	023				001				
10	015	041				001	002			01
$\bar{x}$	17.3	36.4	1.0	0.7	0.3	2.6	0.7	0.3	0.2	0.1
$f$	0.9	1.0	0.2	0.3	0.1	0.8	0.5	0.2	0.1	0.1

Study/Location: Barn 115  
 Ailment/#: \_\_\_\_\_  
 Transect #: 1

Date: 8/18/86  
 Pasture: \_\_\_\_\_

Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: TWISC

-SPECIES-											-SPECIES-											-SPECIES-										
Pt. #	L	R	B	HJA	SPR	MUTO	BOER	GUSA	Annual	Pt. #	L	R	B	HJA	SPR	MUTO	BOER	SITX	GUSA	MUTO	Annual	Pt. #	L	R	B	HJA	SPR	MUTO	BOER	GUSA	MUTO	Annual
1	2				8					3	9	T	10									7	7	T	8							
2	T		10		T					4	0		8			2						7	8		7			1		2		
3	2		8							4	1	10										7	9	1	6				1	2		
4			10	T						4	2	7	3	T								8	0		9					1		
5	5		4	1						4	3	2							8			8	1	1	4			5				
6			10					T		4	4	1	9	T								8	2	T	10							
7			8		10					4	5		10									8	3		10							
8	4		3		10					4	6	2	8									8	4	2	8							
9	1		7			2				4	7	4	5		1							8	5	6			1		3			
10			10							4	8		8						2			8	6		10							
11			10				T			4	9	1	3		6							8	7	T	8		T		2			
12	1		5			4				5	0	5	5			T						8	8		8				2			
13	1		8			1				5	1	T	2	8								8	9	T	10							
14	T		9			1				5	2	T	8		2							9	0	T	10							
15			7	3				T		5	3	4	6		T							9	1	T	19							
16	6							4		5	4		2	7		1						9	2	3	1	YARFE		2				
17	1		9		T					5	5	T	9		1							9	3		8				2			
18	2		8							5	6	6			4							9	4	T	10							
19	4				6					5	7	3							7			9	5	T	7		3		T			
20	3		6			1				5	8	4	2		1				3			9	6	T	10							
21	2		1	T	7					5	9	T	19									9	7	1	9			5				
22			2	8						6	0	2	5			3						9	8	2	1			7				
23	1		9							6	1	T	6						4			9	9	1	5				4			
24	2		1					7		6	2	4	2		2				2			10	0	T	8		2					
25	T		5		2			3		6	3	1	4		5							6	4									
26	1		9							6	4	1	3			6						6	5									
27			T	10						6	5	2			8							6	6									
28	1		9							6	6	3	2			5						6	7									
29	1		8					1		6	7	4	6									6	8									
30	1		2		4			3		6	8	6			4							Σ										
31	1		6		2			1		6	9	3				25						Σ										
32			10		T					7	0				10							Σ										
33	3							7		7	1											10	*									
34	1		6		3			1		7	2	3			3							10	*									
35			10							7	3		8		1							10	*									
36			10							7	4		10									10	*									
37	1		4		3			2		7	5	T	10		T							10	*									
38	T		10							7	6	4				6						10	*									

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Born WS

Date: 8/18/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #1

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/S

Plot #	GRASSES								FORBS AND SHRUBS				Annual
	BOER	SAD	MUTO	HJA	SHV	MUPO	ARFEL	GUSA					
1	8	6	4										
2		5	12	1				1					
3		3		4	4			3					
4			13	3				1					
5	9	4	19										
6	4	2				2		1					
7	11	7				1	15	2					
8		1	11				5						
9		7	10					1					
10		7	5			1		1	3				
$\bar{x}$	3.2	4.2	7.4	.8	.8	2.0	.1	1.2					
$\bar{f}$	.4	.9	.7	.3	.4	.2	.1	.7					



RATED MICROPLOT...5x10cm

Study/Location: BERN WS  
 Allotment/#: \_\_\_\_\_  
 Transect #: 2

Date: 8/25/86  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: TWJSC

SPECIES -											-SPECIES-											-SPECIES-											
Pt. #	L	R	B	S	SPCK	HLTA	SILY	MUTO	GRSA	Annual	Pt. #	L	R	B	S	SPCK	HLTA	SILY	MUTO	GRSA	BOER	Annual	Pt. #	L	R	B	S	SPCK	HLTA	MUTO	GRSA	BOER	Annual
1	T	9									3	9			19								7	7			28						
2		19									4	0	T		10	T							7	8			19						
3	9										4	1	T		8	1							7	9	1		7	0					
4	T	9									4	2	5		5								8	0			8						
5	2	8									4	3	4		1	1						4	8	1		0	T						
6	1	8									4	4	2		7								8	2	1		6						
7	T	10									4	5	1		7								8	3	1		8	1					
8	7										4	6	T		3								8	4	1		8						
9	1	8									4	7			7							2	8	5	3		7						
10	5	5									4	8			19								8	6			9	1					
11		9									4	9			28								8	7	1		7	2					
12		10									5	0	T		2							8	8	1		6							
13		8									5	1			5	1						13	8	9	7								
14	3	7									5	2	T		4	T						6	9	0	1	5							
15	2	8									5	3	1		5	4							9	1	4	5							
16	6	4									5	4	3		5	2							9	2	1		4						
17	5										5	5	2		2							6	9	3	1		7						
18	T	10									5	6	4		6							T	9	4	1		7	T					
19	T	10									5	7	8		2								9	5	8		2	T					
20	1	7									5	8	3		2	T						5	9	6	6			2					
21	1	6									5	9	1		3								9	7	4		3	3					
22		9									6	0	6										6	0	4		3	T	3				
23	2	8									6	1	T		9	1							9	9	1		7	2					
24	1	5									6	2	2		8	T							100	10									
25	1	8									6	3	1		5	4																	
26		10									6	4	5									1											
27	T	6									6	5			5																		
28	1	6									6	6			6																		
29	1	9									6	7			10																		
30	2	7									6	8	1		9																		
31	1	8									6	9			19																		
32	2	5									7	0	1		27																		
33	1	18									7	1	1		4																		
34		9									1	7	2		9																		
35	1	8									7	3	2		4																		
36	1	8									1	7	4		5	1																	
37		10									7	5	1		8	1																	
38	T	8									7	6	7																				

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: BERN W.S.

Date: 8/25/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 2

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/SC

Plot #	GRASSES					FORBS AND SHRUBS					Annual
	HJA	SPCR	MUTOSHV	BOER		GUSA					
1	4	3				2					4
2	1	17				3					
3		24									15
4		7				3					
5		4	21			1					2
6			8	1	4	2					
7	2	20				4					
8		11	10			2					
9			26		4	1					12
10	8		3		15	2					
$\bar{x}$	1.5	8.6	6.8	.1	2.3	2.0					3.4
$\bar{f}$	.4	.7	.5	.1	.3	.9					.4

RATED MICROPLOT...5x10cm

Study/Location: Bern WS  
 Allotment/#: \_\_\_\_\_  
 Transect #: 3

Date: 8/25/86  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: TWISC

-SPECIES-											-SPECIES-											-SPECIES-										
Pt. #	L	R	B	SPR	MUTO	HITA	ARLO	BOER	GUSA	Annual	Pt. #	L	R	B	SPR	MUTO	HITA	BOER	GUSA	Annual	Pt. #	L	R	B	SPR	MUTO	HITA	BOER	GUSA	Annual		
1	1			T							3	9		10							7	7										
2		1		9							4	0	2	7		1						7	8	2	7		1					
3				8	2	T					4	1	2	3				5				7	9	T	9		1					
4	1			6	3						4	2	1	5		1		3				8	0	1	8	1						
5				10							4	3	T	10								8	1	7	2		1					
6	3			4		2		1			4	4		10	T							8	2	5	2	1		1		1		
7				10							4	5		10								8	3	4	6	T	T					
8				9		1					4	6	1	9								8	4	1	5	1		3				
9	1			9		T					4	7	1	5	4							8	5	T	9		1					
10	4			5		1					4	8		18		T		1				8	6	1	2	4	1	1	1			
11	2			7		1			T		4	9	4	2	1		3					8	7	1	9	T						
12	4			5	T	1			T		5	0	1	5	4							8	8	1	9							
13	3			5	2						5	1	T	9	1							8	9	2	7		1					
14	4			4		1		1			5	2	1	8			1					9	0	2	8		T					
15				7		1		2			5	3	2	5		2				1		9	1	1	9							
16	3			6		1					5	4	4	6	T							9	2	2	8		T					
17	6			2	1	1					5	5	1	9	T							9	3	4	1		5					
18	1			9					T		5	6	2	1	7							9	4	1	8	1						
19	T			9			1				5	7	1	7		2						9	5		2	8						
20	4			1		5					5	8		9	1							9	6	T	10							
21	1			6	1		1		T	1	5	9	4	3	3	T						9	7	6				4				
22	3			6				1			6	0	5	4		1						9	8		8	2		T				
23	5							5			6	1	T	9	1							9	9		7	3						
24	1			9	T					T	6	2	1	9								100		10								
25				10	T						6	3	T	8		2																
26	3			1				6			6	4	4	5		1																
27	7			2				1			6	5		4		1	5															
28	4			4	2						6	6	4	4	2																	
29	6			4	T						6	7	2	5		3																
30	7			2	T		1				6	8	1	5	4																	
31	1			8		1					6	9	2	4	2	1																
32	9							1			7	0	4	5		1	T															
33	4							6			7	1	4	4		2																
34				10							7	2	6		4																	
35	4			3	1			2			7	3	7	2		1																
36	1			2	3			4			7	4	5	5		T																
37	2			1				6		1	7	5		9		1																
38	7			T				3			7	6	8	2																		

Liter  $\Sigma$  225.0  $\Sigma$  22.5  
 Rock 6.0 0.6  
 Bsoil 590 59.0  
 Spr 46.0 4.6  
 Muto 19.25 1.925  
 Hija 48.75 4.875  
 Arlo 2.0 0.2  
 Boer 11.25 1.125  
 Gusa 56.25 5.625  
 Annu 4.25 0.425  
 100.875

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

'F2.

Study/Location: Bern INS

Date: 8/25/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 3

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/SC

Plot #	GRASSES						FORBS AND SHRUBS				Annual
	H/A	S/P/R	AR/L	M/TO	BO/E	S/H/Y	G/A				
1	11	2	1				1				
2	5	3	9								
3	15	1		5	2						
4	7	5					4				
5		1		13		1	4				
6	7	3		12							10
7	20				3						5
8	9	3			4						25
9	5	7					1				8
10		6		7							
$\bar{x}$	7.9	3.1	1.0	3.7	0.9	0.1	1.0				4.8
$\bar{f}$	.8	.9	.2	.4	.3	.1	.4				.4

RATED MICROPLOT...5x10cm

F1

Study/Location: REBN WS  
 Allotment/#: \_\_\_\_\_  
 Transect #: 4

Date: 8/18/86  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: Twice

-SPECIES-											-SPECIES-											-SPECIES-														
Pt. #	L	R	B	BOER	BOER	HJA	SOER	MUTO	GUSA	Annual	Pt. #	L	R	B	BOER	BOER	HJA	SOER	MUTO	GUSA	OPUN	MUTO	SILY	Annual	Pt. #	L	R	B	BOER	BOER	HJA	SOER	MUTO	GUSA	Annual	
1	T		9					1			3	9	T	7					3						7	7	1		6				3			
2		1	7					2			4	0	1	5					4						7	8	T		9				1			
3	T		9					1			4	1	T	10					T						7	9	2		2			4	2			
4	T		10					T			4	2	2	7					1						8	0	3		7							
5			9					1			4	3		9					1						8	1	1		7				2			
6			9					1			4	4		8					2						8	2	T		10							
7	1		9					T			4	5	2	2					6						8	3	1		8			1				
8			10					T			4	6	7	3					T						8	4	1		9			T				
9			8					2			4	7	4						2	4					8	5	1		9							
10			10								4	8	5						4			T	1		8	6	T		6			4				
11	1		7					2			4	9	3									5	2		8	7	4		4			2				
12	1		8					1			5	0	8						2						8	8	T		8			2				
13	1		4					2	3		5	1		9					T						8	9	T		10							
14	2		4					4			5	2		10											9	0			10			T				
15			9					1			5	3	1	3					6						9	1			10			T				
16	T		3							7	5	4	7	1					2						9	2	1		5			4				
17			4					2			5	5	T	8					2						9	3			10							
18			4					2			5	6	1	8					1						9	4			10			T				
19			7					3			5	7	7	3					T						9	5			9			1				
20	2		7					1			5	8		10					T						9	6	2		8							
21	4		3					3			5	9	1	5					4						9	7			10							
22			9					1			6	0	4	5					1						9	8	1		8			1				
23			3					7			6	1	3	7					7						9	9	2		5			3				
24			8					2			6	2	1	7					2						10	0	1		7			2				
25			8					2			6	3	T	6					3						10	1			7			2				
26			8					2			6	4		6					4						10	2			119.5			119.5				
27	1		4					5			6	5	1	4					5						10	3			3.0			0.3				
28	4		6					T			6	6	2	8											10	4			68.7			68.7				
29			7					3			6	7	1	2					7						10	5			11.0			11.0				
30	5		4					1			6	8	3	7					T						10	6			12.0			1.2				
31			9					1			6	9	T	9					1						10	7			139.5			139.5				
32			9					T			7	0	T	9					1						10	8			21.75			2.175				
33			8					2			7	1	2	4					4						10	9			7.0			0.7				
34			9					1			7	2		10											10	10			5.25			5.25				
35	1		6					3			7	3	T	10					T						10	11			1.0			0.1				
36	T		8					2			7	4	2	4					4						10	12			2.0			0.2				
37	4		4					2			7	5	1	9					T						10	13										
38			9					1			7	6	T	8					2						10	14										

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bern. WS

Date: 8/18/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #4

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: KV/66

Plot #	GRASSES						FORBS AND SHRUBS				Annual
	Boar	Boer	Socr	Hija	Mudo	Sihu	Gusa	Haso2	Spin	Apun	
1		1	24					1			
2		30	4			26					
3			19			9			1		
4			28								
5			8	11		9	3			5	
6			18	4		7		1			
7			18								
8			16	4							
9			37								
10			24								
$\bar{x}$		3.1	19.6	1.9	5.1	0.3		0.1	0.1	0.1	0.5
f		.2	1.0	.3	.4	.1		.1	.1	.1	.1

Study/Location: BERN WS  
 Allotment #: \_\_\_\_\_  
 Transect #: #5

Date: 8/18/86  
 Pasture: \_\_\_\_\_

Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: TWISC

SPECIES -												-SPECIES-												-SPECIES-																																					
Pt. #	L	R	B	BOGR	BOHI	BOCU	LYPH	HASP <sup>2</sup>	GLSA	YUG <sup>2</sup>	SICOI	TUMO	Annual	Pt. #	L	R	B	BOGR	BOHI	BOCU	HASP <sup>2</sup>	GLSA	YUG <sup>2</sup>	TUMO	Annual	Pt. #	L	R	B	BOGR	BOHI	BOCU	HASP <sup>2</sup>	GLSA	YUG <sup>2</sup>	TUMO	Annual																								
1	5	4					1							3	9	8	2										7	7	9	1																															
2	2	4								4				4	0	7	2	1									7	8	T	9																															
3		9												4	1	6	1										7	9	8	2																															
4	T	6	1	2	1									4	2	1	4	4	1							10	8	0	10																																
5		8	2											4	3	4	5									6	8	1	9																																
6		7	2											4	4	5	5									10	8	2	8	2																															
7		7	3				T							4	5	6	4									10	8	3	7	9																															
8	1	6			2		1							4	6	8									10	8	4	8	2																																
9		7	3											4	7	2	3	5							10	8	5	3	2	5																															
10	3											7	3	4	8	1	4	5									8	6	9	1																															
11	8											8		4	9	T	9	1									8	7	7	3																															
12	9													5	0	8	2										8	8	T	4	3																														
13	8													5	1	10											8	9	10																																
14	8	1												5	2	T	6	4									9	0	3	8																															
15	4	4			2									5	3	T	9		1								9	1	7	3																															
16	3	2	4											5	4		9	1									9	2	2	1	3																														
17	1	4	3		2									5	5		8		2								9	3	1																																
18		8	2											5	6		9										9	4	2	1	3																														
19		7	3											5	7	T	9										9	5	9																																
20	1	7	2											5	8		4	5	1								9	6	1	8																															
21		9	1		T									5	9		5	2	3								9	7	8	2																															
22		8			2									6	0		4	6									9	8	10																																
23	1	2	3							4				6	1	T	7	2	1								9	9	6	3																															
24		6	3		1									6	2		10										100	10																																	
25		7	2		1									6	3		8		2																																										
26		3	6		1									6	4		8	1	1																																										
27	1		3		5									6	5	2	3		5																																										
28		7	1											6	6		8		2																																										
29		9												6	7		9	1																																											
30		4	1											6	8		9	1																																											
31	T	3	6											6	9	T	3	7																																											
32	1	7												7	0		4	5	1																																										
33		7	3											7	1		7	3	T																																										
34		10			T									7	2		8	2																																											
35		7	2		1									7	3		5	5																																											
36	1	6	2	1										7	4		7	3																																											
37		5	5		T									7	5		4																																												
38	1	2	2		3									7	6		10																																												

over →

Study/Location: BERN WS

Date: 8/18/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: # 5

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TWISC

Plot #	GRASSES						FORBS AND SHRUBS						Annual
	STCO	HJA	BOHI	BOER	ARFE1	LOSR	VUCL	PENS	HYFI	ASTR	EUPH	GISA	
1	10						1						
2		1	27	2				2					
3			9	24	3								
4			33		2	1			4	1	2		
5			1								6	1	
6			16	8							4		
7			54	2									
8			22	4		7							1
9			14	2		4							5
10			37	4					1				1
$\bar{x}$	1.0	0.1	21.3	4.6	0.5	1.2	0.1	0.2	0.5	0.1	1.2	0.1	0.5
$\bar{f}$	.1	.1	.9	.7	.2	.3	.1	.1	.2	.1	.3	.1	.3





CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Ran W.S.

Date: 8/18/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #6

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TWISC

Plot #	GRASSES							FORBS AND SHRUBS							Annual
	Bohi	Arf1	Boar	Boer	Boau	Stod	Sim	Susa	Lerc	vfl	Herp2	1000	ER101	Jum0	
1	14	10	3	6				1							7
2	25			4					4						5
3	23	5	9	3	1					1	1				7
4	34	2	8	2	7	1			1		4	3			
5	8		2	5					22						1
6	40	5	4	3							9				4
7	73												1		1
8							2								1
9	5		19			2		6	1						4
10	4	2		16		7		1					(SELO)		3
$\bar{x}$	21.6	2.2	4.5	4.6	0.8	1.0	0.2	0.8	3.6	0.1	0.7	0.4	0.1	0.1	3.2
$\bar{f}$	.9	.5	.6	.7	.2	.3	.1	.3	.5	.1	.3	.2	.1	.1	.8
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">                     Selo 0.1                      .1                 </div>															



CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bern U.S.

Date: 8/18/80

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #7

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: KU/GG

Plot #	GRASSES							FORBS AND SHRUBS				Annual
	Hija	Boer	Sihu	Mulo	Boer	Arifin	Gusa	Hasor	Echi	Atca		
1	2	1	3				4	3				25
2				35	76				1			
3				39	15	12	3	5				17
4	1	2		1	24		5					19
5				9	49		3					5
6				16	37		2	1				
7		7	7		19		4		1			
8		13		2	27							
9		19		6		3	1					
10			1		43		3					
$\bar{x}$	2.2	4.4	1.1	10.8	29.0	1.5	2.5	0.9	0.1	0.1		6.6
f	.2	.5	.3	.7	.8	.2	.8	.3	.1	.1		.4

Study/Location: BERN WS  
 Allotment/#: \_\_\_\_\_  
 Transect #: 8

Date: 8/18/86  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: TWISC

SPECIES -											-SPECIES-											-SPECIES-													
Pt. #	L	R	B	BOER	BOER	GUSA	MUTO	SIHY	HIA	PHLO	Annual	Pt. #	L	R	B	BOER	BOER	GUSA	MUTO	HIA	PHLO	Annual	Pt. #	L	R	B	BOER	BOER	GUSA	MUTO	SIHY	HIA	YUGL	EUPH	Annual
1	2	3	3									3	9	1	1	6	2							7	7	3	1			2			3		
2		2	8									4	0	2	4	4								7	8	2	5			3					
3		1	9									4	1	T	10									7	9		10								
4	1	1	8									4	2	2	8	T	T							8	0	3	6	1							
5	3	6	T	1								4	3	1	6	2	1							8	1	1	8	T	1						
6		2	8	T								4	4	2	1	4			3					8	2	3	5	2							
7	4	2			3	1						4	5	T	9									8	3	2	3	2	3						
8	2	7	1									4	6	T	9	1								8	4	1	9								
9		1	9	T								4	7	2	7	1								8	5	3	2	4		1					
10	1	4	3			2						4	8		3	7	T							8	6	2	6	T	1				1		
11	5	3	2									4	9	2	1	7	T		T					8	7	T	7	3							
12	1	4	2		3							5	0		1	7	2							8	8		1	9							
13	1	1	8									5	1	1	7	1	1							8	9	1	3	6							
14	1	6	3									5	2	2	6	2								9	0	3	5			2					
15	6	2	2									5	3		7	3								9	1	2	1	7							
16	T	10										5	4	1	9	T								9	2	4		T	6						
17		1	7		1	1						5	5		1	7	2							9	3	4	3	1	2						
18		3	5	2								5	6	1	8	1								9	4	3		7							
19		5	5				T					5	7	1	5	2				2				9	5	1	7	2							
20	2	4			4							5	8		2	T					1			9	6	2	4	1	3						
21	3	1	1	4								5	9	1	8	1								9	7	1		7	2						
22	T	2	8									6	0	1	1	6	2							9	8	3		1	6						
23	1	5			3	1						6	1	T	6	4								9	9		4	3	3						
24		4			6							6	2	1	6	3								100	2	3	5								
25	2	6	2									6	3	1	T	5	2	2																	
26	T	9	1									6	4		9	T	1											Liter	128.5			12.85			
27	1	6	2		1							6	5	2	3	3	2											Rock	74.25			7.425			
28		4	3	1	2							6	6	1	8	1												Soil	54.5			5.45			
29		1	9	T								6	7	2	1	3	4											Boer	97.25			9.725			
30	1	7	2									6	8	T	9		1											Boer	63			6.3			
31	2	3	1		4							6	9	5	3	2												Gusa	44			4.4			
32	T	3	7	T								7	0	T	10													Muto	43.75			4.375			
33		10										7	1	1	6	1					2							SIHY	2.0			0.2			
34	2	1	2		5							7	2	1	7	2												Hija	4.0			0.4			
35		10		T								7	3	4	3			3										PHLO	2.0			0.2			
36		5	5		T							7	4	4	3			1	2									YUGL	3.0			0.3			
37		1	9		T							7	5	1	8	1												EUPH	1.0			0.1			
38		3	7									7	6		1	5			4																

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: BERN WS

Date: 8/18/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #8

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TWISC KU/GG

Plot #	GRASSES							FORBS AND SHRUBS			Annual
	BOGR	MUTO	BOER	ARFE1	Hija	Sihy	Socol	GUSA	Phlo		
1	35	14						2			
2	31	27	14					3			
3	24	47	28					1			
4	72	30	1	1							
5	64	6	14					2			
6	48	7	22					1			
7		11	39		6			3	1		
8	43	23			4			7	1		
9	38	6	30		15	1					
10	57	6	3	3			4	3			
$\bar{x}$	41.2	17.7	15.1	0.4	2.5	0.1	0.4	2.2	0.2		
f	.9	1.0	.8	.2	.3	.1	.1	.8	.2		

Study/Location: BERN. WS

Date: 8/18/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #9

Vegetation Type \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/SC

-SPECIES-											-SPECIES-											-SPECIES-																
Pt. #	L	R	B	MUTO	GUSA	EUPH	BOGR	BOER	MOSS	YUGL	Annual	Pt. #	L	R	B	MUTO	GUSA	EUPH	BOGR	BOER	MOSS	YUGL	SPCOI	Annual	Pt. #	L	R	B	MUTO	GUSA	EUPH	BOGR	BOER	MOSS	YUGL	Annual		
1		4	3	2	1							3	9	3		5									7	7	1		6									
2		6	3			1						4	0	T	1	8					1					7	8	1		6	3	T		T				
3		3	6	1			T					4	1	T		4	5		1							7	9	1		2			7					
4			9				1					4	2			5	4			1						8	0	T		7			3					
5	3	3					4					4	3			6	3			1						8	1	4		6			T	T				
6	T	6					3					4	4		1	9										8	2	2		1	3			3				
7	T	2	7	1								4	5			5	4			1						8	3	2		5	1		2					
8	T	10										4	6	2		2				6						8	4	1		9								
9	4	4					2					4	7			10										8	5	T	2	6			2					
10	1	1					8					4	8	1		2				7						8	6			10								
11	4	3					3					4	9	T		1	1			8						8	7	2		3	3		2					
12		10										5	0	T		1				9						8	8	4		4		2						
13	2	7					1					5	1	T		1						9				8	9	2		3		5				3		
14	3	7										5	2	2		1				4		3				9	0			10							5	
15		10				T						5	3	T		10				T						9	1	8		1			1				5	
16	9						1					5	4	1		6				3						9	2	10									5	
17	1	2					7					5	5	1		2			7							9	3	3	4	2		1						
18		9					1				T	5	6	T		7				3						9	4	1	2	7								
19	2	1					7					5	7	1		4	1		1	3						9	5	3		6			1					
20	1	8					1					5	8	1		3	4			2						9	6	T	8			2						
21	1	6		3								5	9		4	4	1			1						9	7	2		5			3					
22		10										6	0	3		5	T			2						9	8	6		3			1					
23	4	5					T					6	1	3		5				2						9	9			1		9						
24	1	9					T					6	2	T		6				4						100	2			2		6						
25		2	7				1					6	3	1		7				2																		
26	2	7					1					6	4	2		1				7																	15.6	
27		1	8				T	1				6	5	2		7				1																3.325		
28	2	4					4					6	6	T		9																				49.0		
29	1	1					8					6	7	1		4	3		2																	3.425		
30	1	5					1	3				6	8	2		4	T		4																	3.15		
31	1	7					2					6	9	T	2	7				1																0.1		
32	T	5					1	4				7	0	T		9				1																10.975		
33	2	4					2	2				7	1	1		8				1																12.8		
34	1						9					7	2	2		8				T																1.0		
35	5	1					4					7	3			4	6			T																1.3		
36	7						2	1				7	4	3		2	1			4																0.1		
37	5	1					4					7	5			2	7			1																1.8		
38							10					7	6	1		9				T																0.25		

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: BERN WS

Date: 8/18/86

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #9

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/SC

Plot #	GRASSES			FORBS AND SHRUBS				Annual
	BDGR	BOER	MUTO	EUDH	GUSA	ASTR	VUGL	
1	34	3	9	1				
2	35	6			4	1		
3		36						
4	29	16	5		1		2	
5	6	42	2				1	
6	11	25			4			
7	5	15	10		1			
8	33	7	6		2			
9	28	8	3					
10	12	15		1	1			
$\bar{x}$	19.3	17.3	3.5	0.2	1.3	0.1	0.3	
f	.9	1.0	.6	.2	.6	.1	.2	



Study/Location: Bernalillo Watershed  
 Allotment/#: \_\_\_\_\_  
 Transect #: 1

Date: 8-23-85  
 Pasture: \_\_\_\_\_

Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_  
 Reader/Recorder: DR/NR

-SPECIES-											-SPECIES-											-SPECIES-																											
Pt. #	L	R	B	S	Soer	Hya	Boer	Gusa	Mjto	Annual	Pt. #	L	R	B	S	Soer	Hya	Boer	Gusa	Mjto	STPE	Sihy	Annual	Pt. #	L	R	B	S	Soer	Boer	Gusa	Mjto	Arfel	Annual															
1	1		5		3	1					3	9			10									7	7	6		3																					
2	1		9								4	0	3		7									7	8	1		9																					
3	2		7							1	4	1	3		3					2			2	7	9	7		2																					
4	1		9								4	2	6		1	3								8	0	T		10																					
5	1		6		3						4	3	5			2		3						8	1	7						2			1														
6			10		T					T	4	4	2		8	T								8	2	T		10																					
7	3		5		2						4	5			10									8	3			10																					
8	2		7							1	4	6	7		2	1								8	4	T		9																					
9	T		9		T				1		4	7	7										3	8	5	6																							
10			10								4	8	1		9									8	6			10																					
11	2		8		T						4	9	T		6				2				2	8	7	T		6							T														
12	1		4				2	T		3	5	0	3		5		1						1	8	8			7																					
13	1		9			T					5	1	T		10									8	9			10								T													
14	1		7			2					5	2	1		6		3							9	0	1		9								T													
15			5				5				5	3	2		7		1							9	1			9								1													
16	5						5				5	4	1		8		1							9	2	4						4	2																
17	2		7							1	5	5	3		4	2							1	9	3			10								T													
18	3		7					T			5	6	7			2	1							9	4	1		9					T																
19	3				3					4	5	7	3						7					9	5	1		7				2																	
20	2		4				2	2			5	8	4		1				4				1	9	6	1		9																					
21	1		5		1			2			5	9	1		5				4					9	7	2		3					4			1													
22			10		T						6	0	1		8									9	8	2		3					2			3													
23	2		7							1	6	1	3		6		1							9	9	3		4					3																
24	3						7				6	2	3		3	2							2	10			6	2								2													
25	3				1		6				6	3	4		5																																		
26	1		9							T	6	4	3		2		2			3																													
27	T		10								6	5	5				5																																
28	2		7							1	6	6	8				2																																
29	T		8				2				6	7	6		3								1																										
30	4				2		4				6	8	4																																				
31	4		2				3			1	6	9	4						4		2																												
32	1		9								7	0	3							7																													
33	5						5				7	1	3							7																													
34	3		4		1		2				7	2	5						4	1																													
35	T		10								7	3	4		3	1							1																										
36	2		14				3				7	4			10																																		
37	3		6		T					1	7	5	1		9																																		
38	T		10								7	6	1		1					7				1																									
																							Litter		22.675																								
																							B Soil		53.300																								
																							Soer		2.475																								
																							Hya		1.275																								
																							Boer		46.175																								
																							Gusa		10.425																								
																							Mjto		1.750																								
																							STPE		0.300																								
																							Sihy		0.200																								
																							Arfel		0.200																								
																							Annual		3.925																								

Study/Location: Bernalillo Watershed

Date: 8-23-85

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 1

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: DR/NR

Plot #	GRASSES						FORBS AND SHRUBS		Annual
	Spoc	Muto	Boer	Hija	Sihy	Arfd	Gusa	Spool	
1	4	6	7				1		15
2	8	14					2		45
3	5			7			3		20
4	1	23		6			1		35
5	1	19	10	1					41
6	3		14						12
7			23		2		2		15
8	2	5	4			1		11	9
9	2	13							18
10	5	8			1	1	3		40
$\bar{x}$	3.1	8.8	5.1	1.4	.3	.1	1.2	.1	25.00
$f$	.9	.7	.5	.3	.2	.1	.6	.1	1.1

Study/Location: Bernalillo Watershed  
 Allotment/#: \_\_\_\_\_  
 Transect #: 2

Date: 8-23-85  
 Pasture: \_\_\_\_\_  
 Vegetation Type: \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/DR

-SPECIES-											-SPECIES-											-SPECIES-											
Pt. #	L	R	B	Boer	Gusa	Hija	MUTO	STEP	Siny	Annual	Pt. #	L	R	B	Boer	Gusa	Hija	MUTO	STEP	Siny	Annual	Pt. #	L	R	B	Boer	Gusa	Hija	MUTO	STEP	Siny	Annual	
1	5		4			1					3	9		10								7	7			10							
2	t		10								4	0		8					2			7	8			10						t	
3	3					2					4	1		9	t							7	9	1		7				2			
4	1		9								4	2	9									8	0			10							
5	6		4			t					4	3	7		3							8	1	t		10							
6	2		7			1					t	4	6		9							8	2	1		5			4				
7	2		8								4	5	2		2	6						8	3	t		8						2	
8	2		1			7					4	6	9		1							8	4	6		4							
9	1		9								4	7	2		7				1			8	5	1		8						1	
10	4		5								1	4	8		10							8	6	t		8			1			1	
11	t		10								4	9		9								8	7	2		4	4						
12	t		10								5	0	4		1			4				8	8	7		2							
13	2		7				1				5	1	2		4		1	3				8	9	2		3		4		1		1	
14	4		6								5	2			6		4					9	0	10									
15	1		9								5	3	t		5				5			9	1	9									
16	4		4			2					5	4	4		6							9	2	6		1			2	1			
17	5					5					5	5	3		5				1	1		9	3	2		8							
18			9								1	5	6		2				t			9	4	3		6			1				
19	1		8					t			1	5	7		3					3		9	5	10									
20	t		6								3	5	8		9		6					9	6	8			1						
21			5				5				5	9			3		7					9	7	2		2	4	2					
22	2		5								3	6	0		1							9	8	6		3			1				
23	4		5								1	6	1			10						9	9	4		6							
24	1		9				t				t	6	2		7			2				100	3		1	6							
25	4		3				2				1	6	3	t	7				2			1	6	3		7							
26	t		7				t				3	6	4		5																		
27	3		6					1			6	5			7		3										Litter			24.150			
28	1		3				5				1	6	6		8		2										Bsoil			55.800			
29	t		8								1	6	7		10							t					Boer			2.400			
30	2		4				4				6	8			9							1	t				Gusa			7.025			
31	4		5					1			6	9			10												Hija			.625			
32	3		4								3	7	0	t	9							1	t				MUTO			2.000			
33	1		9								7	1			10		6					10	t				SACT			4.025			
34	t		9								1	7	2		2		5					3					Siny			.600			
35	1		7				2				7	3		3	5							2					STEP			.100			
36			9								1	7	4		2		6			2		2					ANNU			4.600			
37			9								1	7	5		4		5			1													
38	t		9				t				1	7	6		7			3															

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo Watershed

Date: 8-25-85

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 7

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/DR

Plot #	GRASSES					Gua	FORBS AND SHRUBS				Annual
	Hija	Secr	Mula	Boer	Shm						
1	5	2				1					35
2	21	2				3					29
3		23									52
4		8				2					27
5			28	7		1					28
6			8	12	3	1					15
7		19				5					25
8		6	2			1					31
9			18	8		1					
10	3			27		1					44
$\bar{x}$	2.9	6.0	5.6	6.0	.3	1.6					28.6
$\bar{e}$	.3	.6	.4	.4	.1	.9					.9

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: #3  
 Reader/Recorder: DR/ITW

Date: 8-23-85  
 Pasture: \_\_\_\_\_  
 Vegetation Type: \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-																
Pt. #	L	R	B	S	Spck	Boer	Muto	Gusa	Hija	Artel	Annual	Pt. #	L	R	B	S	Spck	Boer	Muto	Gusa	Hija	Artel	Annual	Pt. #	L	R	B	S	Spck	Boer	Muto	Gusa	Hija	Artel	Annual			
1	3	5	1									3	9	1	8									7	7	1	6								3			
2	4	10										4	0	4			6							7	8	2	7							1				
3	1	9										4	1	7			1	1						7	9	7	8											
4	4	6										4	2	6										2	8	0	1	8						+	1			
5	5							3	2			4	3	6										8	1	4	5							1				
6		10										4	4	6	2									8	2	2	5							3				
7		10										4	5	8										1	8	3	6							1	3			
8	7	7							1			4	6	7										1	8	4	3	3						1	3			
9	3	7										4	7	5										1	8	5	1	5					4					
10	4	1							5			4	8	1										1	8	6	2	8					+		+			
11	6	2	1						1			4	9	3	4		2							1	8	7	10							+	+			
12	1	6									3	5	0	10										+	8	8	7	2					1					
13	7							2	1			5	1	9	+									8	9	+	6						3		1			
14	3	4							3			5	2	6										9	0	1	9											
15	1	9										5	3	5	1									9	1	+	10								+			
16	2	6							1			5	4	7										1	9	2	5							3	2			
17		10										5	5	5	2									9	3	2	6						2		2			
18		7	1						+		2	5	6	3	4								3	9	4	1	9											
19	3	3	2						2			5	7	5	+								3	9	5	+	10											
20	2	3							2		3	5	8	5	4									1	9	6	7							3				
21	2	3							5			5	9	5										9	7	1	6	2							1			
22	4								6			6	0	9										1	9	8	+	10										
23	4	6							4			6	1	7		2								9	9	+	7	3										
24		10										6	2	2	2		3						3	10		8									2			
25	3								6		1	6	3	3	3								2															
26	2	7							1			6	4	4									3													Litter 23.225		
27	5	4							1			6	5	16									+													B. Soil 53.200		
28	2	8										6	6	3	3									6	6	2	3									Soer 1.850		
29	2	8										6	7	9										1	6	7											Boer .300	
30	1	2									1	6	8	7	3								2													Muto .700		
31	5	3	1								2	6	9	3	4									2													Gusa 5.600	
32	6								2		2	7	0	6	2								1	2													Hija 8.125	
33		7							1		2	7	1	5									3	10														Artel .200
34	1	9										7	2	5									3															Rock .4
35	3	4							2	1		7	3	3	4								2															AWW 7.150
36	5	5										7	4	2	4									4														
37	8								2			7	5	4	3								2															
38	1	6	1						1	1		7	6	5	3	2																						

Study/Location: \_\_\_\_\_

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 3

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS					Annual
	Hya	Afel	boer	Moto	Boer	Gosa					
1	1.5	1	3			2					4
2	2	4	4								25
3	17			3	1						64
4	7		4			4					19
5			5	2	2	2					46
6	6		4	1	6						32
7	29										54
8	17		2								46
9	17		3								30
10			15	10		2					27
$\bar{x}$	10.30	5	4.0	5.1	.1	1.0					34.70
$s^2$	.8	.2	.8	.4	.1	.4					1.0

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: 4

Date: 8-22-85  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/OR

-SPECIES-											-SPECIES-											-SPECIES-															
Pt. #	L	R	B	S	Boer	Gusa	Hija	Spacr	Multo	Annual	Pt. #	L	R	B	S	Boer	Gusa	Hija	Spacr	Multo	Open	100	Annual	Pt. #	L	R	B	S	Boer	Gusa	Hija	Spacr	Annual				
1	Z		8								3	9	1		5									1	7	7	Z		3								
2	Z		6					1			1	4	0	2	3									1	7	8	+		7						1		
3			9								1	4	1		8									Z	7	9	Z		3			3	Z				
4	1		8					1			4	2	5		3									3	8	0	1		7						Z		
5	4		3					3			4	3			7									3	8	1	3		5						2		
6	1		8					1			4	4	1		5									Z	8	2			9						1		
7	Z		6					1			1	4	5	2	3										8	3	1		9			+					
8			8					1			1	4	6	5	5										8	4	2		7								
9			7					1			Z	4	7	6											8	5			8							Z	
10	+		10					+			4	8	4												8	6	Z		4				3			1	
11			7					2			1	4	9	3											8	7	3		6							1	
12	1		8								5	0	3											1	8	8	2		7								
13	4		4					1			5	1		7										Z	8	9			9							7	
14	1		5					3			1	5	2	+	10										9	0	Z		6			+				Z	
15			8								Z	5	3		7										9	1	3		7			+					
16	Z		5					3			5	4	7	1										1	9	2		3								Z	
17	3		6					+			1	5	5	2	6										9	3			9							1	
18	Z		5					3			5	6	4	5										1	9	4		8								1	
19	3		6					1			5	7		9										1	9	5	3		7								
20	1		6					Z			1	5	8		9									1	9	6		9								+	
21	3		5								1	5	9	Z	3									3	9	7		10									
22			7								Z	6	0		5										4	9	8		10				+				
23	1		5					Z			1	6	1	Z	8										+	9	9	Z		6							
24	Z		6					Z			6	2	2		8										100	1		7								1	
25	1		6					Z			1	6	3	7	3									Z													
26	Z		7								6	4	6		3																						
27	1		6								6	5	Z		4																						
28	Z		7								1	6	6	1	6																						
29			5					3			Z	6	7	1	6																						
30	H		4					Z			6	8	Z		5										3	Z											
31	1		9					+			6	9	1		9																						
32			10								7	0			8										1	Z											
33	Z		7								7	1	4		3																						
34	1		6								Z	7	2	1		8																					
35	1		5					3			1	7	3		9																						
36	Z		3								4	7	4	5	3																						
37	0		2								7	5		1	8																						
38	Z		8								7	6			6																						

Study/Location: Bernalillo

Date: 8-22-85

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 4

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: DR/FW

Plot #	GRASSES					FORBS AND SHRUBS					Annual
	Spocr	King	Boer	Alto	Silv	Spocr	Osen	Loza			
1	26	7									33
2	19		6	12							37
3	35	3				1					42
4	29										46
5	5	8	7		2		5				33
6	22	2		10							38
7	20	7									58
8	22	2									66
9	36										70
10	22										61
$\bar{x}$	23.6	2.9	1.3	2.2	.2	.1	.5				51.40
$\bar{f}$	1.0	.60	.2	.2	.1	.1	.1				1.0



Study/Location: Bernalillo Watershed

Date: 8-22-85

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 5

Vegetation Type \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: W/DR

-SPECIES-												-SPECIES-												-SPECIES-																									
Pt. #	L	R	B	Boer	Arife	Bohi	Boer	Gusa	Stcol	Hasp2	Hylfi	Jumo	Annual	Pt. #	L	R	B	Boer	Arife	Bohi	Boer	Gusa	Stcol	Hasp2	Hylfi	Jumo	Annual	Pt. #	L	R	B	Boer	Arife	Bohi	Boer	Gusa	Stcol	Hasp2	Hylfi	Jumo	Annual								
1	3	4							2					3	9	9		1	t								7	7	t	4	6																		
2	4	1	3					2						4	0	3	7		t								7	8		7																			
3		9	1											4	1	4	2								4		7	9	t	3	5		2																
4		2	5	3										4	2	2	8	t							5		8	0		5	5														10				
5		4	6											4	3	5	5								10		8	1		10															10				
6			10	t										4	4	4	6								10		8	2		8	2														10				
7		7	3											4	5	2	8	t							10		8	3	2	4	4																		
8	2	5				2				1				4	6	9				1	Yael				10		8	4		4	6		t																
9		7	3							t				4	7	10				t	4	Yael			10		8	5	2	5			2																
10	2	3								6		10		4	8	2	6	2							4		8	6		4	6																		
11	4	3				t				t	3	10		4	9	10										8	7		8	2																			
12	4	5								1		10		5	0	10										8	8		8	2																			
13	8					t					2	10		5	1	9									1	8	9		9	1			t																
14	6	4								t		10		5	2	5	5									9	0		6	1			3												t				
15		4	3				3							5	3	1	7	1								9	1		7				1																
16	2	4					4	Hij						5	4	3	2									9	2		6	4		t																	
17		6	3											5	5	9	1			t						9	3		3	5		2																	
18		5	5											5	6	7	3									9	4		8	2			t																
19		8	2											5	7	1	8									9	5		8	1			1																
20		7	2											5	8	7				3						9	6		10																				
21		7	3											5	9	8	2									9	7		10				t																
22		8												6	0	10										9	8		1	2	5		2																
23		7												6	1	10				t						9	9		1	4			5																
24		6	3											6	2	10										10	0		3	7			t																
25		5	5											6	3	2	5			3																													
26		4	4											6	4	7	2																																
27	5													6	5	8																																	
28		1	7											6	6	4	6			t																													
29		8												6	7	9																																	
30		8	1											6	8	10				t																													
31		8	2											6	9	8	2																																
32		4												7	0	6	4																																
33		7	3											7	1	10																																	
34		9	1											7	2	2	7																																
35		1	3	5	1									7	3	10																																	
36		1	8											7	4	10																																	
37		7	9											7	5	1	4	4																															
38		7												7	6	10	4																																

Study/Location: Bernalillo Watershed

Date: 8-22-85

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 5

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/DR

Plot #	GRASSES							FORBS AND SHRUBS				Annual
	Bihu	Stecol	Bahi	Ajia	Boer	Artel	Boer	Yucca	PENS	Hu	Gus	
1	1	12	6	0				2				
2			21	2	5				2			
3		3	13		29							
4			26		3	4			1			
5			2							1		3
6			22		0							3
7			17		5		7					
8			<del>26</del>		5		2					
9			<del>26</del>		2							3
10			46		1							1
$\bar{x}$	.1	1.5	16.10	1.2	6.6	.4	.9	.2	.2	.1	.1	1.0
$\bar{f}$	.1	.2	.9	.1	.8	.1	.2	.1	.1	.1	.1	.4
Bocu.9												
.2												

RATED MICROPLOT...5x10cm

Study/Location: Barnatillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: H6

Date: 8-22-85  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: DR/TW

-SPECIES-												-SPECIES-												-SPECIES-																									
Pt. #	L	R	B	S	Qute	Leve	Hija	Artel	ESTCO	HYME	Jumo	Boer	Boer	Annual	Pt. #	L	R	B	S	Boer	Bocu	Bahi	Boer	ESTCO	HYSPZ	Open	Leer	Annual	Pt. #	L	R	B	S	Boer	Bahi	Bocu	Jumo	Sihy	CRUSA	LENS	Leve	Annual							
1	1	8	1												3	9	9	1											7	7	1	8	1																
2	1		7	3	2										4	0	1	7		2									7	8	9						10	1											
3	1	4	3	5	2										4	1		2						2	2	4			7	9	9		1				10	1											
4		7	2											1	4	2	1	1	7	1									8	0	10						10												
5		4	5		1	+									4	3		6	1							3			8	1	9						10	1											
6		9	1												4	4		6	4		+								8	2	6	2																	
7		8	1							1					4	5		3	7										8	3	7	1					2		2										
8		4	3		3										4	6		8							2				8	4	4						6			6									
9		6	4							+					4	7		4	4			2							8	5	4	2					3	1		3									
10	1	2	2					5							4	8	3	1	4	1	1								8	6	3	7					2												
11	+		10												4	9	1	7	2										8	7	2	0													+				
12	2	3	3								2				5	0		5	5										8	8	2	2	4		2														
13	-	10									7				5	1		2	4	1						3			8	9	10																		
14	6	2									6			2	5	2		7	3										9	0	7	3		+															
15	7	3									3				5	3		5	1		4								9	1	1	8	1																
16	8	1									1	5			5	4		2	6	1	1								9	2	2	7														1			
17	1	8									1	+			5	5		5	4		1								9	3	+	10																	
18		10										+			5	6		2	4	3					1				9	4	6	4		+															
19	1	4	2										3		5	7	2	2	6	+					+				9	5	3	2							5										
20			10												5	8		3	4	2		1							9	6	10																		
21		6	2									2			5	9		5	4		1								9	7	1	7														2			
22		2	4								1				6	0		3	5		2								9	8	4	6																	
23			5								2				6	1		2	2		6								9	9	1	5	4																
24		7	2									11			6	2		9			1								100	3	3	2	2																
25	1	4	2										3		6	3		7	1		2																												
26		7	3												6	4	+	2	5		3																												
27	2	2	1								4				6	5		5	3		2																												
28	1		3										5		6	6	1	1	4		4																												
29		6	2									2			6	7		7	3									+																					
30		2	4									4			6	8		2	4		4																												
31	2	2	6									2			6	9		3	3		2							2																					
32	1	5	4												7	0		4	4		2																												
33	1	3	6												7	1	1	3	5		1																												
34		5	3									1			7	2		6	2		2																												
35	5	3										2			7	3		2	7		1																												
36	3	1										3			7	4		7	3		+																												
37	1	3	3									1			7	5		3			7																												
38		6	3									1			7	6		9			1																												

Litter 14.375 Open .7  
 Rock 39.125 Bocu .95  
 Bocu 28.500 Bahi 6.15  
 Qute .8 Sihy .2  
 Leve 1.0 Leve .1  
 Hija .025 ~~Boer~~  
 Artel .7 FRIOL  
 ESTCO 1.325 PENS 1.9  
 Hyme .4 Leer .3  
 Jumo 8.2 STEP .3  
 Boer 2.875 CRUSA .7  
 Boer 1.100 Ann 1.15  
 Hoya 2.025



RATED MICROPLOT...5x10cm

Study/Location: Bronxville  
 Allotment/#: \_\_\_\_\_  
 Transect #: 7

Date: 8-22-85  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: W/DR

-SPECIES-											-SPECIES-											-SPECIES-													
Pt. #	L	R	B	Boer	Gusa	Hija	Muta	Arlo	Spec	Hasp	Annual	Pt. #	L	R	B	Boer	Gusa	Hija	Muta	Arlo	Spec	Hasp	Annual	Pt. #	L	R	B	Boer	Gusa	Hija	Muta	Arlo	Spec	Hasp	Annual
1	4		5			1						3	9		2	7	1							7	7	2		2							
2	t		t			t						4	0		8	2								7	8		7	1							
3	1		6					3				4	1		9	1								7	9	2		4	4						
4	t		7			1	2					4	2		10									8	0	1		9	t						
5	t		10									4	3	1	4		5							8	1			10							
6	2		8									4	4	t	4	6								8	2			10	t						
7	1		8			1						4	5		10			t						8	3	2		7							
8	1		9									4	6		10			t						8	4		9	1			t				
9	6		2			2						4	7	2				8						8	5		6	4							
10	2		4			4						4	8		10									8	6	1	9								
11	1		9									4	9		2	8								8	7		10								
12	t		5	5								5	0		1	9								8	8	t		2							
13			0									5	1		4	5	1							8	9		7					8			
14	t		8	2								5	2	1	5	4								9	0		9			1	t				
15	2			8								5	3		8	2								9	1		8	2							
16	2								2			5	4		6	3	1							9	2		10								
17			7	3								5	5		3	t								9	3		5	5							
18	1		4			5						5	6		3			2						9	4	3	7						t		
19			0									5	7	3	5			2						9	5		10	t							
20	2		5	3								5	8	t	5	5								9	6		5	2							
21	1		8	1								5	9		1	7	2							9	7	2	7							1	
22			9	t								6	0		10			t						9	8		10	t							
23	t		10	1								6	1	2	7			1						9	9	1	5	2	2						
24	2		4			4						6	2	t	10									100		7	1	5							
25			7			2						6	3		1	9																			
26	1		7									6	4	1	7	2												Litter	10.7						
27	1		1			8						6	5	1	7	2	t										Soil	63.7							
28	1		4		2		3					6	6	4	6												Rock	1.9							
29			1	9	t		t					6	7	8	4	4											Boer	8.0							
30												6	8	3	4	4											Gusa	7.075							
31	2		3	5								6	9	2	1	7		2									Hija	8.00							
32	3		6	1								7	0	10				2									Muta	4.475							
33			4			6						7	1	2													Arlo	.625							
34			10									7	2	8													Boer	.225							
35			9			1						7	3	1	4												Hasp	.200							
36	3		3		5							7	4	2	6												Atca	.200							
37			5		1	4						7	5	2	4	1											Boer	2.825							
38	1		9	t								7	6		10												Annuals	.25							

Study/Location: Bernalillo

Date: 8-22-85

Allotment #:

Pasture:

Transect #: 7

Vegetation Type:

Habitat Type #:

Reader/Recorder: TW/DR

Plot #	GRASSES							FORBS AND SHRUBS			Annual
	Alfa	Bear	Bear	Mudo	Sacr	Arto	Sily	Gusa	Hand	Alca	
1	9	2	1					2			
2			44	22							
3			9	25	8	2			3		1
4	9		14			2		5			
5			23	8				2			
6			25	25				1	1		1
7		5	16				3	3		1	
8		6	31					1			
9		15	23	3	3						
10			42					3			
$\bar{x}$	1.8	2.8	22.8	13.3	1.3	.2	.3	1.7	.4	.1	1.2
$\bar{f}$	.2	.4	1.0	.5	.3	.1	.1	.7	.2	.1	.2

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: FF8

Date: 8-22-85  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: DR/TW

-SPECIES-											-SPECIES-											-SPECIES-																		
Pt. #	L	R	B	Boar	Boer	Muto	Gusa	Ybel	Hjd	Amol	Sihy	Annual	Pt. #	L	R	B	Boar	Boer	Muto	Gusa	Hjd	Amol	Sihy	Annual	Pt. #	L	R	B	Boar	Boer	Muto	Gusa	Ybel	Hjd	Amol	Sihy	Annual			
1			5	3	1								3	9	1	7	2								7	7	5										4	1		
2			16										4	0		8	2								7	8		8									2			
3			9										4	1	1	9									7	9		10												
4			9										4	2	1	7	1	1							8	0		9										1		
5			5	2	3								4	3	2	6	2								8	1	+	9										1		
6			10										4	4	3	4		3							8	2	1	8	1											
7			3	5			2						4	5	2	8									8	3	2	4									4			
8			2	7	1								4	6	1	8	1								8	4	5		4									1		
9			+	9	+								4	7	1	6	3								8	5	2	2	5									1		
10			2	5		3							4	8	+	10									8	6	2	7										+		
11			3	3	3		1						4	9		10	+	+							8	7		10												
12			3	3	4								5	0	1	8	1								8	8		3	7											
13			4		5	1							5	1	+	9	1								8	9	5	1	4											
14			2	5	2	1							5	2	2	6	1								1	9	0	1	7		2									
15			3		2								5	3	+	7	2		1						9	1	2	5	3											
16			1	9									5	4	+	9			1						9	2	4											6		
17			+	9	+		1						5	5	1	8	1			+					9	3	9										+		1	
18				10	+								5	6	1	7	2								9	4	3											7		
19			1	8		1							5	7	1	5	1	1		2					9	5	2	7	1											
20			1	6		1	2					+	5	8		10	+							+	9	6	4										4	2		
21			3		2	5							5	9	1	9	+								9	7	3	2	5	+										
22			1	9									6	0	2	5	3								9	8	1	4	1	4										
23			1	7		2							6	1	+	1	9								9	9		10												
24			4	2	2	2							6	2	1	6	3								100	2	5	2											1	
25			1	7	2								6	3	4	4	2																							
26			5	2	3								6	4	1	8	+	1																					Litter 16.725	
27			+	8	2								6	5	2	1	2	5																				60.400	Hjd. 54	
28			2	7	1								6	6	1	6		3																				300	Ann. 450	
29			3	3	3		1					+	6	7	2	4	4																						6.625	
30			1	6	3								6	8	1	9			+						2													6.400		
31			3	1	1	5							6	9	5	2	3																					3.525		
32			2	6	1	1							7	0	1	9									2													4.475		
33			+	10									7	1	3	6									1	10	+												ASTER 0.1	
34			1	6	3								7	2	1	7	1	1							+														Hjd. 0.1	
35			+	10	+								7	3	5	3		2																					0.2	
36				2	8								7	4		6		2	+	2																			0.1	
37				9	1	+							7	5	3	4	1		2																				0.1	
38				10									7	6	1	8			1																				0.2	

Study/Location: \_\_\_\_\_

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #8

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: DR/TW

Plot #	GRASSES								FORBS AND SHRUBS				Annual
	Boer	Boer	Mith	Arlo	Hya	Sacr	Sih	Gosa	STR	Hasp	Z	Spro	
1	17	1	12					1	2				4
2	23	10	11					1					5
3	13	25	26						1	1			10
4	33		12	1									3
5	34	5	3						3				
6	18	14	5		4								15
7		34	7		4			2					17
8	22	3	14		2	2		7	2				4
9	17	19	5		7								8
10	22	5	3	1			1	2			2		9
$\bar{x}$	19.9	11.6	9.8	.2	1.7	.2	.1	1.3	.8	.1	.2		7.5
$\bar{f}$	.9	.9	1.0	.2	.4	.1	.1	.5	.4	.1	.1		.9





Study/Location: Bernalillo Watershed

Date: 8-22-85

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: 9

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: TW/DR

Plot #	GRASSES				FORBS AND SHRUBS				Annual
	Bees	Muta	Beer	Hija	CAUSA	ASTR	Yucca	Sisal	
1	26	4							
2	32				2	2			6
3			27						17
4	19	3	10		1		1		4
5	4	1	23				1	2	18
6	3	1	22	3					8
7	18	7	13	11	2				15
8	29	7	7		1	1			7
9	40	6							4
10	33	1	15		1				1
$\bar{x}$	20.40	3.0	11.70	.4	.7	.3	.2	.2	7.9
$\bar{f}$	.9	.8	.7	.2	.5	.2	.2	.1	.8

Study/Location: Bernalillo Watershed  
 Allotment/ #: \_\_\_\_\_  
 Transect #: 7#1  
 Reader/Recorder: Matt / G120

Date: 9-12-83  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-															
Pt. #	L	R	B	S	SPCR	HJJA	MUTO	GUSA	BOER	OPPO	Annual	Pt. #	L	R	B	S	SPCR	HJJA	MUTO	GUSA	BOER	OPPO	Annual	Pt. #	L	R	B	S	SPCR	HJJA	MUTO	GUSA	BOER	OPPO	Annual		
1	2	5			3							3	9			9	1							7	7	1		8									
2	1	8			1						T	4	0			10							T	7	8	4		6									
3	2	7			1							4	1	1		7	1		1					7	9	8		1									
4	1	7			2							4	2	6		2		2						8	0	2		8									
5	2	7			1							4	3	6				1	3					8	1			2									
6	T	10			T							4	4			10	T						T	8	2	T		10									
7	1	8			1							4	5	T		10								8	3			10									
8		6			4							4	6	7		1		2						8	4			10									
9	T	10			T							4	7	4		3		3					T	8	5	2		2									
10	T	9			1							4	8	2		8								8	6	3		7									
11		9			1							4	9	T		9		1						8	7			9									
12		3			3							5	0			9		T		1			T	8	8			8				2				T	
13		9			T							5	1	T		10								8	9	T		10									
14	T	9			1							5	2	2		7				1				9	0	T		10									
15		10										5	3	T		10	T							9	1			10									
16		3					7					5	4	T		10								9	2	2		4									
17	T	10										5	5	T		6	3						T	9	3			10									T
18	2	6			2							5	6	T		6	4							9	4	1		9									
19		6			T		4					5	7	1		1				8				9	5	T		6								2	
20	T	7			1		2					5	8	T		7		T		3				9	6	1		9									
21	T	7			2							5	9	T		10								9	7	2		2									
22	T	10										6	0	1		9	T							9	8	1		5									
23	T	10			T							6	1	1		9	T							9	9			8									T
24		8					2					6	2	1		7	2							100	2			7									
25		6			4							6	3	1		9	T																				
26		9			1							6	4	T		7				3																	
27	T	10			T							6	5	3		1				6																	
28	1	9			T							6	6	2		T			8																		
29	1	9										6	7	T		10	T																				
30	1	8			1							6	8	1						9																	
31	1	3					6					6	9	2					8																		
32		9			1							7	0						10																		
33		6			2		2					7	1						10																		
34		8			2							7	2			4				6																	
35		10			T							7	3	T		8	1		1																		
36		10										7	4	1		9																					
37	T	8			2							7	5	1		8			1																		
38	3	6			1							7	6	2		7	T		1																		





Study/Location: Bernalillo Watershed

Date: 9/12/83

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: #2

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: GLENN MATT

Plot #	GRASSES					SUSA	FORBS AND SHRUBS				Annual
	Infel	HIJA	SPCR	MUTO	BOLR						
1	002	004	002			003					11
2			007								16
3			011								12
4			006			002					07
5			007	006							07
6				003	007	002					12
7	001	010									12
8			006	004		001					15
9			003	009		001					23
10			002		009	001					03
$\bar{x}$	.2	.5	5.4	2.2	1.6	1.0					11.8
$\sigma$	10	20	30	40	20	40					100

RATED MICROPLOT...5x10cm

Study/Location: Bonafelio  
 Allotment/#: WADRE Red  
 Transect #: E2

Date: 9/12/83  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: Mitchell / D. Smith

-SPECIES-											-SPECIES-											-SPECIES-																																																	
Pt. #	L	R	B	SPR	MUTO	HIJA	GUSA	ARFEI	BOERI	SPCOL	Annual	Pt. #	L	R	B	SPR	MUTO	HIJA	GUSA	ARFEI	BOERI	SPCOL	Annual	Pt. #	L	R	B	SPR	MUTO	HIJA	GUSA	ARFEI	BOERI	SPCOL	Annual																																				
1			7									3	9	7	10									7	7			10																																											
2			10									4	0	2	8									7	8	1		9																																											
3					10							4	1		10									7	9	1		9																																											
4	1		9									4	2	2	7									8	0	3		4																																											
5					9						1	4	3		10									8	1			5																																											
6			4		2	1						4	4		1	9								8	2	3		1																																											
7			10									4	5	7	10									8	3	7	2	1																																											
8			6		4							4	6	1	1	8								8	4	7		8																																											
9	5		5									4	7	7	9									8	5	1		9																																											
10			3									4	8		9								1	8	1		9																																												
11			1		9						7	4	9		1	9	6							8	7	5	8	1	1																																										
12			7		3							5	0		10									8	8	7	5	1	4																																										
13			3		7	5						5	1	6	3								1	8	9	1		9																																											
14	3		5		2							5	2		10								1	9	0	8		1																																											
15			7		3							5	3		8	7	1						1	9	1		10																																												
16	2		8		7							5	4		4	6							7	2	2		6																																												
17	2		8									5	5		5	4							1	9	3		3																																												
18	3		2		7							5	6			10								9	4			10																																											
19	1		9		7							5	7	1	9									9	5			10																																											
20					10							5	8	10										9	6	2		5																																											
21			9									5	9	1	4									9	7	5		5																																											
22			8									6	0		10									9	8		10																																												
23			7		10							6	1		10	7								9	9		8																																												
24	1		10									6	2		4	6							7	10		8																																													
25	3		7									6	3		3									10																																															
26	4		6									6	4	2	8									10																																															
27	6		8									6	5	7	10									10																																															
28			3									6	6		2	8								10																																															
29	2		5									6	7		10									10																																															
30			9		7							6	8	4	4	2								10																																															
31			2		5							6	9		8									10																																															
32	7				2							7	0	1										10																																															
33			10									7	1	3	7									10																																															
34			10		7							7	2	2	8	7								10																																															
35			4									7	3	1		9								10																																															
36			2									7	4	7	7	7	3							10																																															
37			5									7	5	4	5		1							10																																															
38			3									7	6		1	9								10																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">L</td> <td style="width: 10%;">R</td> <td style="width: 10%;">B</td> <td style="width: 10%;">SPCR</td> <td style="width: 10%;">MUTO</td> <td style="width: 10%;">HIJA</td> <td style="width: 10%;">GUSA</td> <td style="width: 10%;">ARFEI</td> <td style="width: 10%;">BOERI</td> <td style="width: 10%;">SPCOL</td> <td style="width: 10%;">ANNU</td> </tr> <tr> <td>12.100</td> <td></td> <td></td> <td>59.200</td> <td>9.325</td> <td>3.725</td> <td>11.075</td> <td>9.400</td> <td>.100</td> <td>.425</td> <td>.100</td> </tr> <tr> <td colspan="11" style="text-align: center;">107.45</td> </tr> <tr> <td colspan="11" style="text-align: center;">total</td> </tr> </table>																												L	R	B	SPCR	MUTO	HIJA	GUSA	ARFEI	BOERI	SPCOL	ANNU	12.100			59.200	9.325	3.725	11.075	9.400	.100	.425	.100	107.45											total										
L	R	B	SPCR	MUTO	HIJA	GUSA	ARFEI	BOERI	SPCOL	ANNU																																																													
12.100			59.200	9.325	3.725	11.075	9.400	.100	.425	.100																																																													
107.45																																																																							
total																																																																							

Study/Location: Bernalillo Watershed

Date: 9-12-83

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T#3

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: KAT / GLEN

Plot #	GRASSES					FORBS AND SHRUBS					Annual	
	H1JA	SPCR	ARFEI	BOER	MUTO	GUSA	SPCO1					
1	015	002										23
2	005	002	001			001						02
3	013	003		001			001					23
4	009	002				002						
5	002	006			012	001						18
6	008	002			011							09
7	022	003										02
8	015	002										12
9	005	005										07
10	002	013			003							06
<u>X</u>	9.6	4.0	.1	.1	2.6	.4	.1					10.0
<u>F</u>	100	100	10	10	30	30	10					90



Study/Location: Palmalillo

Date: 7/12/83

Allotment/#: WAL/S/100

Pasture: \_\_\_\_\_

Transect #: T#4

Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: Mitchell / Matt

-SPECIES-											-SPECIES-											-SPECIES-												
Pt. #	L	R	B	S	SPGR	MUTO	GUSA	HIJA	ORPO	Annual	Pt. #	L	R	B	S	SPGR	MUTO	GUSA	HIJA	ORPO	Annual	Pt. #	L	R	B	S	SPGR	MUTO	GUSA	HIJA	ORPO	Annual		
1	T		10								T	3	9	T		8	1						1	7	7		8	2						
2	T		7	3								4	0			8	2							7	8		9	1						
3			9	T								4	1			8	2							7	9		10	T						
4			5	5								4	2			8	2							8	0		6							
5	T		10	T								4	3			9	T						1	8	1		10							
6			7	2							1	4	4			9	T						1	8	2		10	T						
7			10									4	5	T		8	T						2	8	3	1	9							
8			9	T							T	4	6	2		8	T							8	4	T	10							
9	1		9	T								4	7	T		1	9							8	5	T	10							
10			10	T								4	8	1		4	5							8	6	T	10							
11			8	2							T	4	9			4	3	3						8	7		7	3						
12			10	T								5	0	4			5						1	8	8	1	8	1						
13			10	T								5	1		10	T								8	9		7	T		3				
14	T		3	7								5	2	1		9	1							9	0		9						0	1
15			8	1							T	5	3			9	1							9	1		10	T					T	
16	T		10	T	T							5	4			10								9	2		10	T					T	
17	5			5								5	5	2		8	T							9	3		9						1	
18			10	T	T							5	6	4		6								9	4		10							
19			1	8							1	5	7			10								9	5		5	5						
20			6	4								5	8			5	3						2	9	6		8						2	
21			10	T								5	9	1		7	1						1	9	7		10							
22			9	1								6	0			8	2							9	8	2	8							
23			10	T								6	1			10	T							9	9	1	6	2					1	
24			10		T							6	2	1		9	T							100		6	4							
25			4	6								6	3	2		3	5																	
26			10	T								6	4			3	7																	
27	1		9	T								6	5			8	2					T												
28			4					2			1	6	6	1		9		T																
29			6	4								6	7	1		8			1															
30	1		4	4				1			1	6	8	2		6	2																	
31			10	T								6	9			3	6						1											
32	T		6	4								7	0			10	T																	
33			7	3								7	1			4	3																	
34			7	3								7	2	1		1	8																	
35			7	2							1	7	3	1		9							T											
36	T		8	2								7	4	9		1																		
37			5	5								7	5			4	6																	
38			7	3								7	6			7	3																	

Study/Location: Bernalillo Watershed

Date: 9/12/83

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: # 4

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: KATH/MATT

Plot #	GRASSES			FORBS AND SHRUBS		Annual
	SPCR	HISA	MATO	OPPO	SPOL	
1	018	004	007			07
2	027		007			05
3	011	001	004			03
4	023					26
5	020		004	004		
6	023		006			37
7	024					28
8	021	001				16
9	046				001	16
10	027					32
$\bar{x}$	23.4	6	2.1	4	.1	17.0
$\sigma^2$	100	30	40	10	10	90

Study/Location: Pointeilla  
 Allotment/#: U. J. J. J. J.  
 Transect #: T. #5

*[Handwritten signature]*

Date: 9/9/83  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

Reader/Recorder: GLEN/MATT

-SPECIES-											-SPECIES-											-SPECIES-															
Pt. #	L	R	B	S	ST	GR	BO	CH	LE	AN	Annual	Pt. #	L	R	B	S	ST	GR	BO	CH	LE	AN	Annual	Pt. #	L	R	B	S	ST	GR	BO	CH	LE	AN	Annual		
1	1	5			4							3	9	4	4				1		1			7	7	1	5	4									
2		2				8						4	0	1	7				2					7	8		6	4									
3			8	2								4	1		6								3	1	7	9		4	4					2			
4	2	5	2			1						4	2	1	4	5							T	8	0		5	3		2							
5		8	2									4	3	5	5									8	1	5	1	4						10	T		
6		7	2			1						4	4	8	2									8	2	3	3	4						10	T		
7	T	5	5			T	T					4	5	8	2									8	3	1	5	4									
8	1	5				4						4	6	5	1	3								8	4	T	4	6									
9		7	3	T								4	7	3	3	4								8	5	5	1			4							
10	1		4	5								4	8	1	5	4								8	6		3	7									
11	5		3				2	10				4	9		8	2								8	7		6	4									
12								10				5	0	T	6	4								8	8		4	5							1		
13	2							2	10			5	1		10									8	9			7					3				
14	2	3	4					10				5	2		1	9								9	0		8	1							1		
15	1	3	1					5				5	3	T	9		1							9	1		5	5							1		
16	1	3	3			1		2				5	4	2	2	6								9	2		8			2							
17	1	1	8	T								5	5		4	5	(BOLT)							9	3	1	2	6							1		
18	1	4	4									5	6	T	3	7	(BOLT)							9	4		2	8							T		
19		8	2									5	7		2	7	1					T		9	5	2	2	4					2				
20		6	2			1						5	8	4	4	2								9	6		7	2							1		
21	1	4	5			T						5	9	T	2	8								9	7	1	6	1							2		
22	1		8									6	0		2	8								9	8	3	5	1								1	
23		5	5									6	1		5	5								9	9	2	1	5								2	
24		8	2			T						6	2	T	1	9								100	1	2	5									2	
25	2	4	1									6	3	3	2	5																					
26	1	2	5									6	4		3	7	T								X												
27	T	2	7									6	5		4	6	T									L	R	B	S	ST	GR	BO	CH	LE	AN	Annual	
28		3	5	T								6	6	1	2	7																					
29		3	7									6	7		2	8	T																				
30		2	7									6	8	T	3	7	T																				
31	1	3	5									6	9	T	4	6																					
32		4	1			4						7	0		6	1																					
33		2	5									7	1		10	T																					
34		3	5									7	2	4	5																						
35	2	1	5									7	3		5	5																					
36		2	6									7	4		8	2																					
37	1	1	6			2						7	5		5	1																					
38	1	4	4									7	6	T	-	10																					

Study/Location: BOGNAI LAGO WATERSHED

Date: \_\_\_\_\_

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T# 5

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: GLEN MATS

Plot #	GRASSES						FORBS AND SHRUBS			Annual
	STNE	BOHI	BGR	BOGR	HIJA	ARFEI	YUCC	HMEI	6USA	
1	006	002					002	001		02
2		005	004	007	003					03
3	001	002	013							
4		006		007		002		005		02
5		003		002				001		05
6		005	007	001				001		04
7		012		004						
8		004	005	004						
9		006	003	002						01
10		026						001	001	
$\bar{x}$	.7	9.1	3.2	2.7	.3	.2	.2	.9	.1	17
F	20	100	50	70	10	10	10	50	10	60



Study/Location: Bismarck Wetland

Date: 9-9-83

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T# 6

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: N. Hill / D. Hill

Plot #	GRASSES						FORBS AND SHRUBS					Annual
	ARPE1	BER, 7	BOUT	BGR	HISA	STNE	LESQ	OPPO	HASP2	LEER	ERIO1	
1	005	008	001	003			001					07
2		017	007	002								05
3		005	019	002								05
4		010	007	015			002	003				01
5		005	004						012			02
6		003	019					002				01
7	001	001	019	011						001		02
8					001				001			03
9			018									04
10		013	004			004		004				02
$\bar{x}$	0.6	6.2	9.8	2.3	0.1	0.4	0.1	0.6	0.5	1.3	0.1	3.2
F	20%	80%	90%	50%	10%	10%	10%	20%	20%	20%	10%	100%

Study/Location: Bernalillo Watershed

Date: 9-9-83

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: TR 7

Vegetation Type \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: Ma#/Glor

-SPECIES-											-SPECIES-											-SPECIES-															
Pt. #	L	R	B	S	GUSA	BOGR	ARLD	HIJA	SPCR	MUTO	ANNU	Pt. #	L	R	B	S	GUSA	BOGR	ARLD	HIJA	SPCR	MUTO	ANNU	Pt. #	L	R	B	S	GUSA	BOGR	ARLD	HIJA	SPCR	MUTO	ANNU		
1			10		T							3	9	1	9									7	7	2	7										
2	T		10		T							4	0	2	7									7	8	1	5	3									
3							10					4	1	2	7									7	9	1	2										
4	T		7					3				4	2	T	10									8	0			10									
5	T		10									4	3	1	8									8	1			8									
6			7		3							4	4		3	7								8	2	1		8									
7			10									4	5		10									8	3			4	1	5							
8	1		9									4	6	T	10									8	4			10									
9			1		9							4	7		4								6	8	5		7	3									
10	1		8		1							4	8		10									8	6			9									
11	2		8									4	9		10									8	7	T		10									
12			6		4							5	0		10									8	8			7									3
13			10									5	1		4	2	4							8	9	3		3									4
14			8		2							5	2	T	8		2							9	0	1		9									
15			1		8							5	3	T	10		T							9	1			10									
16			7							3		5	4	T	7		3							9	2	1		9									
17			9							1		5	5	1	7							2		9	3			8	2								
18			3							7		5	6	T	7							3		9	4	8		2									
19			10									5	7	T	4							6		9	5			9	1								
20	1		6		2							5	8		6		4							9	6	T		8	2								
21	1		5		4							5	9		7		3							9	7	1		3	6								
22	1		8		1							6	0	1	6							3		9	8	T		8	2								
23	1		7							2		6	1	T	7							3		9	9	2		5	1	2							
24	T		8							2		6	2	2	8							T		100	T		6	2	2								
25	1		8							1		6	3		9							1															
26	1		3							6		6	4		8							2															
27	1		6							3		6	5	1	9																						
28			10							T		6	6	2	8							T															
29	T		10									6	7	10																							
30	1		9									6	8	1	6	3																					
31			4		6							6	9		3	7																					
32	T		4							6		7	0		10																						
33			7							3		7	1	1	5																						
34	T		8							1		7	2	1	3																						
35			7		3							7	3	1	5		4																				
36			9		1							7	4		8																						
37			8		2							7	5		7																						
38	T		5		T	5						7	6	T	10																						

100.725  
Tot

Study/Location: Bernalillo Watershed

Date: 9-9-83

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T# 7

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: Wall/Gloria

Plot #	GRASSES							FORBS AND SHRUBS					Annual
	HEJA	BOGR	MUTO	ARLD	SPCR	BOGR	GUSA	ASTR	ERIG	ATCA	OPPO		
1	0.09						0.01	0.01					
2		0.25	0.18						0.01				
3		0.04	0.14	0.02	0.01							0.1	
4	0.11						0.03						
5	0.02	0.16	0.04				0.03						
6		0.23	0.12				0.01						
7						0.11	0.01		0.01				
8		0.28			0.06	0.07							
9			0.05	0.01		0.23	0.01						
10		0.26					0.02			0.01			
$\bar{x}$	2.2	12.2	5.3	.3	.7	4.1	1.2	.1	.1	.1	.1	.1	
$\Sigma$	30	60	50	20	20	30	70	10	10	10	10	10	



Study/Location: Bonnieville Watershed  
 Allotment/#:                       
 Transect #: T#2

Date: 9/9/83  
 Pasture:                       
 Vegetation Type                       
 Habitat Type #:                     

Reader/Recorder: Matt / Kohn

-SPECIES-											-SPECIES-											-SPECIES-																
Pt. #	L	R	B	S	BR	AC	HA	SA	MD	BR	Annual	Pt. #	L	R	B	S	BR	AC	HA	SA	MD	BR	Annual	Pt. #	L	R	B	S	BR	AC	HA	SA	MD	BR	Annual			
1			6									3	9	1			8							7	7	2									3			2
2			10									4	0	T			9							7	8											10		
3			10									4	1				9							7	9											1		
4			8									4	2				6							8	0											T		
5								6				4	3				7							8	1											1		
6			10									4	4				6							8	2											3		
7			5									4	5				8							8	3											7		
8			4									4	6	1			7							8	4											2		
9			10									4	7				8							8	5											2		
10			5									4	8				10							8	6	1										2		
11			7									4	9				10							8	7	1										9		
12			8									5	0				9							8	8											10		
13			2									5	1				9							8	9	T										6		
14	T		4									5	2				9							9	0											9		
15			5									5	3				8							9	1											8		
16	1		9									5	4				10							9	2	T										2		
17			10									5	5				9							9	3	4										6		
18			10									5	6				8							9	4											2		
19	T		10									5	7				6							9	5											4		
20			6									5	8	-			9							9	6											7		
21			8									5	9	2			8							9	7											3		
22			10									6	0	T			9							9	8											3		
23			7									6	1				10							9	9											T		
24			6									6	2				7							100	2												5	
25	1		6									6	3				7							6	3											2		
26	4		4									6	4				10							6	4											T		
27			8									6	5				8							6	5											2		
28			8									6	6				8							6	6											2		
29			3									6	7				8							6	7											1		
30			7									6	8				8							6	8											2		
31			6									6	9				2							6	9											8		
32	1		6									7	0	1			9							7	0											T		
33			10									7	1	1			7							7	1											2		
34			8									7	2				8							7	2											1		
35			10									7	3				4							7	3											6		
36			10									7	4				9							7	4											1		
37			10									7	5				8							7	5											2		
38			10									7	6				9							7	6											1		

L  
 R  
 B  
 S  
 BR  
 AC  
 HA  
 SA  
 MD  
 BR  
 Annual  
 2.450  
 74.800  
 18.325  
 0.325  
 1.600  
 4.200  
 1.650  
 2.175  
 0.200

Study/Location:

Date: 9/9/83

Allotment #: Bonakillo Watershed

Pasture:

Transect #: T#8

Vegetation Type: /

Habitat Type #:

Reader/Recorder: Matt / Kalk

Plot #	GRASSES						FORBS AND SHRUBS			Annual
	POOR	ASTR	MISTO	BOER	HISA	ANFEI	GOSEA	CLIT	SPOCI	
1	034	003					001			
2	039	003	012				001			
3	026	001								
4		001	029							
5	021	001	003	015						
6	024	002		018	006					
7	008	001	007	028	003		002			
8		002	019		005		005	001		
9	016	003	006	029	006					
10	019	004	007	001		001		001		
$\bar{x}$	18.7	2.1	8.3	9.1	2.2	0.1	0.9	0.1	0.1	
F	90%	100%	70%	50%	46%	10%	90%	10%	10%	

Study/Location: Lindalitha Watershed

Date: 2/9/83

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: T-27

Vegetation Type /

Habitat Type #: \_\_\_\_\_

Reader/Recorder: KATH/MATT

-SPECIES-											-SPECIES-											-SPECIES-																				
Pt. #	L	R	B	S	G	B	A	B	Y	Annual	Pt. #	L	R	B	S	G	B	A	B	Y	M	H	S	Annual	Pt. #	L	R	B	S	G	B	A	B	Y	M	H	S	Annual				
1	2		1		6		3				3	9				9					2				7	7			2		8											
2					5		8				4	0			6	4									7	8			6		4											
3	3		2		5						4	1		4	4						2				7	9			4		6											
4	T		1		1		8				4	2			7						3				8	0			9		1											
5	T		8		T		2				4	3			9						1				8	1			10					T			T					
6	1		9		T						4	4			5						5				8	2			4		6	T										
7	T		10		T						4	5			4						6				8	3			10		T	T										
8	T		4		6						4	6			6					4	T				8	4	1		9		T											
9	T		9		1						4	7								9	1				8	5			10						T							
10			4		6						4	8			10										8	6			10													
11	3		6		1						4	9			1					9					8	7	T		5			5										
12			10								5	0	1		2					7					8	8	1		5			4						7				
13	T		4		6						5	1									10				8	9	5		4			1							10			
14			10								5	2	2								9				9	0			10											10		
15			10								5	3	2		8					T					9	1	T		4			6								10		
16			7		2	1					5	4	4		1	5									9	2			10											10		
17			9		1						5	5			6					4					9	3	2		5			3										
18	T		8		2						5	6	1		2	7									9	4			10													
19			7		3	T					5	7			9	1									9	5	3		7		T	T										
20	7				2	1					5	8			7	T	3								9	6			8			2										
21			6		4						5	9			10										9	7			10													
22			10		T						6	0	2		5					3					9	8	3		6			1										
23	1		8		1						6	1	3		5		2				T				9	9			7			3										
24	4		6		T						6	2			7	3	T								100			3	1		6											
25			9						1		6	3			6	4																										
26	3		7			T					6	4			6	4						T																				
27	2		5			3					6	5	9		1							T																				
28	1		5			4					6	6	2		5							2																				
29			1			9					6	7	7		7	3																										
30	1		3			6					6	8	9		1																											
31	T		7			3					6	9	5			5																										
32	5		1			4					7	0	2		8	T																										
33	1		4			5					7	1	2		5		3																									
34			3			4					7	2			10																											
35						10					7	3			10																											
36	2					8	2				7	4			7	T					3																					
37	T		7			3					7	5	1		6																											
38	1					9					7	6			9	1																										



Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: One

Date: 9-15-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-												
Pt. #	L	R	B	S	Hija	SACK	MUTO	BOCK	GRUSA	Annual	Pt. #	L	R	B	S	Hija	SACK	MUTO	BOCK	GRUSA	Annual	Pt. #	L	R	B	S	Hija	SACK	MUTO	BOCK	GRUSA	Annual		
1	4	5	1								3	9	1	9		T						7	7			10								
2	T	10			T						4	0		10								7	8	5	5		T							
3	4	5	1								4	1	Z	7		T						7	9	8	Z					T				
4	4	4	Z								4	2	1	8	1							8	0	5	5									
5	5	5									4	3	6	Z	1	1						8	1	Z	6		Z							
6		10									4	4		10								8	2	1	9		T							
7	1	9			T						4	5		10								8	3		10									
8	Z	6			Z						4	6	6	Z		Z						8	4		10									
9		9			1						4	7	6	3	1	T						8	5	H	3		1			Z				
10	T	10									4	8	1	9								8	6	1	8		1							
11		10			T						4	9	T	10		T						8	7	1	9									
12	1	8			1						5	0		10				T				8	8	Z	7		1							
13		10									5	1		10								8	9		10		T							
14	3	6			T		1				5	2	Z	8								9	0	T	10									
15		10									5	3		10								9	1		10		T							
16		3						7			5	4		10								9	2	5	4		1			T				
17		10			T		T				5	5	3	5	Z							9	3	1	8		1							
18	3	6				1					5	6	3	5	T		Z					9	4		9		1							
19	1	8				1					5	7		4				6				9	5	3	7		T							
20	1	5				1		3			5	8		7	T			3				9	6	T	10									
21	T	10			T						5	9	T	10								9	7	5	3			Z						
22	1	9									6	0	1	9								9	8	3	5		Z							
23	T	10									6	1	1	9		T						9	9		8					Z				
24		8						Z			6	2	Z	8		T						100	1	7		Z								
25	3	6			1						6	3	T	10																				
26	1	8			1						6	4	1	8				1																
27	Z	7			1						6	5	3	6				1																
28	1	9									6	6	4	5		1																		
29		10			T						6	7	T	10																				
30	3	7			T						6	8	6	Z		T		Z																
31	T	5			1			4			6	9	Z	5		T			3															
32		10									7	0	Z	4					4															
33	4	4			Z			T			7	1	7	1		T		Z																
34	1	9			T						7	2	3	5		T		Z																
35		10			T						7	3	Z	5		Z				1														
36		10									7	4	1	9																				
37	T	8			Z						7	5	1	9																				
38	5	5			T						7	6	T	7		Z																		

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 9-15-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: One

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES						FORBS AND SHRUBS				Annual			
	Hya	Spc	Muta	Boer	Boag	Sihv	Mupu	Gusa	Spcol					
1	4	15	8	7		3		2						
2		11	24			3		1						
3	16	4						1						
4	6	5		27										
5	6	3	10	15										
6	2	6		6		3		3						
7		5		10		1		1						
8		1	7			6		1	1					
9		6	13											
10		5	8					2						
X														
F														

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/ #: \_\_\_\_\_  
 Transect #: Two

Date: 9-15-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-															
Pt. #	L	R	B	S	Hyd	Sacr	MUTO	Siky	Boer	Gusa	Annual	Pt. #	L	R	B	S	Hyd	Sacr	MUTO	Siky	Boer	Gusa	Annual	Pt. #	L	R	B	S	Hyd	Sacr	MUTO	Siky	Boer	Gusa	Annual		
1	T		10		T							3	9			10								7	7			T	10								
2	T		10									4	0	T		10								7	8			T	10								
3	T		7		3							4	1			9								7	9	T		8			2						
4			10									4	2	10										8	0			10									
5		1	7		2							4	3	7		1								8	1			10									
6	7		2		1							4	4	Z		8								8	2	1		3			6						
7	T		10		T							4	5			6	T							8	3	T		10			T						
8		1	1		3							4	6	T		5								8	4			10			T						
9			10									4	7	3		6								8	5	Z		8									
10	2		2									4	8	1		9	T							8	6	1		9									
11		1	9		T							4	9			10								8	7			8					2				
12			10									5	0	4	T	5								8	8	Z		7									
13		1	7		Z							5	1			10	T							8	9	5		5									
14		1	4		5							5	2	T		10								9	0	T		7						3			
15	3		5		Z							5	3	Z		7								9	1	Z		3									
16		1	7									5	4	1		8								9	2	5		5									
17												5	5	5		4								9	3	T		10									
18			10									5	6	T		10								9	4			10									
19			10									5	7	6		4								9	5	1		6									
20			10									5	8			3								9	6	T		5									
21			10		T							5	9	T		10								9	7	T		8									
22	3		7									6	0	T		2								9	8	9		10									
23	Z		5		3							6	1	1		9								9	9	T		10									
24		1	9		T							6	2	T		10	T							100		Z											
25	Z		6		1							6	3	T		9																					
26			10									6	4			3																					
27	T		9		1							6	5			10																					
28			10									6	6			10																					
29			10									6	7			10																					
30			10		T							6	8			10																					
31	T		9		1							6	9			10																					
32	T		9		1							7	0			10																					
33		1	9									7	1			10																					
34			10		T							7	2	6		3																					
35			3		7							7	3	1		9																					
36	T		10		T							7	4	7		3																					
37			10									7	5	Z		6	Z																				
38			9		T							7	6																								

Study/Location: Bernalillo

Date: 9-15-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Two

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS			Annual
	Hya	Socr	Muto	Boer	Sih	Arlo	Boba	Gusa	Sacol	Ascl	
1	7	4				1		3			
2		19								1	
3		34									
4		12					1	1			
5		8	22								
6			5	11	1			1		1	
7		21			1						
8		13	6		3			1			
9		8	13	3	1			1			
10	5		5	32	5			1			
X											
f											



RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Three

Date: 9-15-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-										
Pt. #	L	R	B	S	Muto	Spct	Hija	Gusa	Annual		Pt. #	L	R	B	S	Muto	Spct	Hija	Gusa	Annual		Pt. #	L	R	B	S	Muto	Spct	Hija	Gusa	Annual	
1				10		T					39	1		9								77				10						
2				10							40			10									78	3		7						
3	6			1	3						41			10									79	1		9						
4	1			9							42	3		7									80	2		8						
5	5			4			1				43			10									81			10						
6				10							44	T		10	T								82	Z		8						
7				10							45			10									83	9					1			
8	T			10							46	3		7	T								84	Z		7			1			
9	Z			8							47			10									85	Z		7			1			
10	1			8			1				48	T		10									86	6		3			1			
11	1			9		T					49	3		6	1								87	1		9						
12	T			10							50			10									88	5		4			1			
13	1			7		T	Z				51	T		8	Z								89	3		6			1			
14	1			8			1				52	1		7	Z								90	Z		8						
15				10							53	T		10									91			10						
16	Z			7			1				54	1		9									92	9					1			
17	Z			8							55	1		7	Z								93	1		8			1			
18	Z			8		T					56	6		4	T								94			10						
19	T			9			1				57	3		7	T								95	T		10						
20	T			7		Z	1				58	5		5									96	T		7			3			
21	T			10							59	1		7	Z								97	3		4			3			
22								10			60			10									98	T		10						
23				10							61			10	T								99	T		9			1			
24	T			10							62	1		6	3								100	1		9			T			
25	T			10							63			10	T																	
26	Z			8							64	4		6	T																	
27	1			9		T					65	T		10																		
28	T			10							66			10																		
29				10							67			10	T																	
30	T	9		1							68	3		1	6								Z									
31	5	1		Z		1	1				69			10		T																
32	9			1							70	1		9									Z									
33				10		T					71	2		7		1							10									
34				10							72	3		6		1																
35				10							73	7		Z	1																	
36				3		T	7				74	1		8		1																
37				3			7				75	6		4		T																
38	1			7			1				76	5		3	Z																	

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernatillo

Date: 9-15-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Three

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS					Annual	
	Spcr	Hija	Muto	Arlo	Mupol	Gusa						
1	3	2	1									
2	5	7	3			1						
3	2	1	8									
4	6	1	5			4						
5	7	1	7									
6	2	7	8									
7	3	2	6									
8	4	8			2							
9	8	5										
10	1	3		4	1							
<u>X</u>												
<u>F</u>												

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Four

Date: 9-14-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

SPECIES -											-SPECIES-											-SPECIES-														
Pt. #	L	R	B	S	Hyd	Sacr	Muto	Boer	boha	spca	Annual	Pt. #	L	R	B	S	Hyd	Sacr	Muto	Boer	boha	spca	Annual	Pt. #	L	R	B	S	Hyd	Sacr	Muto	Boer	boha	spca	Annual	
1	Z		8									3	9	1	9									7	7	1	7		Z							
2			10									4	0	4	5	1								7	8	1	9									
3	T	Z	7		1							4	1	1	7	2								7	9	T	10									
4	1		9									4	2		10									8	0		10									
5	1		7		Z							4	3		10									8	1	Z	8									
6	1		9									4	4	1	9									8	2	1	9									
7			9			1						4	5		10	T								8	3		10									
8	1		9									4	6	1	9									8	4		10	T								
9	1		9		T							4	7	T	7	3								8	5	1	8	1								
10	1		9		T							4	8	Z	5	1	Z							8	6	T	10									
11	1		8									4	9	1	6					3				8	7		9	1								
12	T		10									5	0	1	9	T				1				8	8	Z	7	1								
13	1		7		Z							5	1	1	9									8	9	3	7	T								
14	Z		6		Z							5	2	1	9									9	0	1	9	T								
15	4		5		1							5	3	1	7		Z							9	1		7	3								
16	T		10									5	4		10									9	2		10	T								
17	3		4			3						5	5	T	6	4								9	3	1	9	T								
18	1		6			3						5	6		10									9	4	1	9									
19	4		5			1						5	7	1	9									9	5	T	9	1								
20	1		7		Z							5	8	T	10	T								9	6		10									
21	T		10									5	9		8	Z								9	7	T	10	T								
22			10			T						6	0		10					T				9	8	1	8	1								
23			10									6	1	7	Z									9	9	Z	8									
24	4		5		1							6	2	1	8	1								10	0		10	T								
25	3		4		3							6	3	Z	6	Z																				
26			10									6	4	1	9																					
27	1		9		T							6	5	1	5				4																	
28	T		10									6	6		10																					
29	Z		6		1							6	7	1	7				Z																	
30	3		5		Z		T					6	8	Z	8	T																				
31	1		9									6	9	1	8	1																				
32	T		8		Z							7	0		10																					
33	T		10									7	1	3	4	T	3																			
34	Z		8									7	2	Z	8																					
35	T		10									7	3	1	9																					
36	T		10		T							7	4	6	3																					
37			10		T							7	5		10																					
38	1		9									7	6	1	9																					

Study/Location: Bernahillo

Date: 9-14-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Four

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS			Annual
	Hija	lacr	Moto	Boer	Boba	Sard	Open	Ascl	
1	16	17							
2	5	14	8	5	5				
3	1	19	6			1			
4		18							
5	5	6	2	3			5		
6	4	13	6		8			2	
7	2	15							
8	2	13			1				
9		35			4				
10		21					1		
X									
f									



CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 9-14-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Five

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES						FORBS AND SHRUBS						Annual	
	Hija	Boar	Boer	Stne	Bocu	Arlot	Sih	HylU	Astr	Gusa	Erco	Z		Yugl
1		6	3	9			3	1		2			1	
2	5	16	25									8		
3		2	58	2										
4		57	3		1	1		3						3
5			5	1								1		8
6		14	19					1	4					4
7		39	2											
8		15	8		3									
9		22	6											2
10		60	5					1				2	1	
X														
f														

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: SIX

Date: 9-14-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

-SPECIES-												-SPECIES-												-SPECIES-													
Pt. #	L	R	B	S	Boer	Boer	Arb	Bocu	Jumo	Qutu	Evcoz	Ascl	Annual	Pt. #	L	R	B	S	Boer	Boer	Bocu	Open	Flusa	Hasp-Z	Ascl	Annual	Pt. #	L	R	B	S	Boer	Boer	Jumo	Evcoz	Siny	Annual
1	Z	8												3	9				10								7	7								10	
2	5	5								6				4	0	3	7											7	8							10	
3	T	9	1							1				4	1				Z	5		T	3		T		7	9							10		
4	Z	7	1									1		4	2				6	3	T		1		T		8	0							9		
5	Z	8	Z											4	3				1	6			3				8	1							10		
6	4	6												4	4				9		1						8	2							3		
7		10												4	5				1	5			4				8	3							3		
8	9	1												4	6				9			T		T			8	4							6		
9	9	1												4	7				6	4	T						8	5							2		
10	1	8												4	8				5	1	3		1				8	6							1		
11	9	1												4	9				4	6	T						8	7							1		
12	10													5	0				1	9							8	8							2		
13	8	Z			T					9				5	1				10		T						8	9							T		
14	T	10								7		T		5	2				T	10							9	0							T		
15	Z	8								5				5	3				10								9	1								10	
16	8	Z								6		T		5	4				T	6	4	T					9	2							Z		
17	8	1			1							T		5	5				10								9	3							T		
18	10													5	6				3	7		T		T			9	4							T		
19	8	Z			T									5	7				Z	4	3	1					9	5							T		
20	10													5	8				7	3	T						9	6								10	
21	7				3									5	9				T	8	1		1				9	7							1		
22	8				1									6	0				1	9							9	8								7	
23	8									Z				6	1				9			1					9	9								1	
24	8	1			1									6	2				10			T					100									7	
25	7	1			Z									6	3				T	10																	
26	10													6	4				9	1																	
27	7	1			1									6	5				10																		
28	10													6	6				1	8		1															
29	5	Z			3									6	7				9																		
30	10													6	8				1	7		Z															
31	9	1			T									6	9				10			T															
32	10													7	0				T	9																	
33	10													7	1				1	6	Z																
34	Z	4	Z							Z				7	2				7	2																	
35	3	6								1				7	3				9	1																	
36	1	7								Z				7	4				9			1															
37	5	5								T				7	5				9			T															
38	8	1	1											7	6				9			1															

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 9-14-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: SIX

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES						FORBS AND SHRUBS						Annual	
	Boer	Boqr	Sihy	Stne	Arlo-l	Bocu	Moss	Open	HaspZ	Leer	Ascl	ErcoZ		Fmo-l
1	8	6		1	7	3				1	4			
2	7	35									3	7		
3	4	27			4						7			
4	11	25				12		11	4	4		1		
5	13	3								11				
6	4	29					3		2		6			
7	3	56					2						1	
8	1		1								1			1
9		23					6					3		
10	13	9	3	4				2			3			
X														
f														



RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: seven

Date: 9-13-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #:

Reader/Recorder: \_\_\_\_\_

SPECIES -											-SPECIES-											-SPECIES-																	
Pt. #	L	R	B	Boer	Hya	Spr	Muto	HyaZ	Gula	Arlo-1	Moss	Annual	Pt. #	L	R	B	Boer	Boer	Hya	Spr	Muto	Gula	Arlo-1	Moss	Annual	Pt. #	L	R	B	Boer	Boer	Hya	Spr	Muto	Gula	Arlo-1	Moss	Annual	
1			5								5		3	9		6	4									7	7	1	7	1									
2			10		T								4	0	1	8			1							7	8	1	4	4	1								
3			8							Z			4	1	1	8			1							7	9	2	3	5									
4	3		5	Z									4	2		10									8	0		10											
5			10										4	3	T	9			1						8	1		10	T										
6	T		8					Z					4	4		Z		T						8	2	1	9	T											
7	T		10										4	5	3	7									8	3	2	3	5										
8	4		6										4	6	1	9				T					8	4		10											
9			Z						8				4	7		5				5					8	5		5					5						
10	4		6										4	8	T	10									8	6	T	10	T										
11	2		8										4	9	T	10									8	7		10											
12	T		6	4									5	0	1	9									8	8		8	1	1									
13			10										5	1	1	7	2								8	9	5	1	1	4									
14	1		7	Z									5	2		9	1								9	0	T	10											
15	4				T	1		5					5	3	T	10									9	1		10	T										
16			8		Z								5	4		8	2								9	2		10											
17			10		T								5	5	1	8				1					9	3		9	1			T							
18	3		1		T	6							5	6		8				2					9	4	4	4			Z								
19	1		9										5	7	1	7					2				9	5		10	T										
20	2		5	3									5	8		6	4								9	6	1	9	T										
21	2		3	5									5	9		8	2								9	7	2	6	Z										
22	1		9	T									6	0	Z	7				1					9	8	T	10											
23	T		10		T								6	1	3	6				1					9	9	T	7	3										
24	1		3			6							6	2	Z	8				T	T				100	1	8	1	T	T									
25	2		6			Z							6	3	1	9				T																			
26	T		8		T			Z					6	4	1	5	4																						
27	T		10			T							6	5	Z	7	1																						
28	T		10			T							6	6	1	9	T																						
29			10										6	7	5	3				Z	Z	T																	
30		T	10										6	8	T	10										Z													
31	1		8			1							6	9		3																							
32	1		4	5									7	0	Z	Z										Z													
33			8	1		1							7	1	4	Z	Z	Z								10	*												
34			8			Z							7	2	Z	3	5																						
35			8	Z		T							7	3	Z	4	4																						
36	T		7					3					7	4	T	8	Z																						
37	T		10			T							7	5	Z	6	Z																						
38	1		9										7	6		10																							

Study/Location: Bernalillo

Date: 9-13-87

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Seven

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES							FORBS AND SHRUBS			Annual
	Boar	Boer	Hya	Muto	Arlol	Sihv	Sacr	Gusa	Atca	Hasp	
1			14				9	2		3	
2	41			28			1				
3	5			24	3		8				
4	9		36					5			
5	39			10				4		1	
6	37			40			5	1			
7	13	9				9	2				
8	41	20		1			2				
9		43		8	3	2	1	2			
10	71						1	2		1	
X											
f											

RATED MICROPLOT...5x10cm

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Eight  
 Reader/Recorder: \_\_\_\_\_

Date: 9-13-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_  
 Habitat Type #: \_\_\_\_\_

-SPECIES-											-SPECIES-											-SPECIES-										
Pt. #	L	R	B	S	Boer	Boer	Hya	Grusa	Auto	Annual	Pt. #	L	R	B	S	Boer	Boer	Hya	Grusa	Auto	Annual	Pt. #	L	R	B	S	Boer	Boer	Hya	Grusa	Auto	Annual
1	1	8									3	9	Z	7		1						7	7	4	3					3	T	
2	T	T	10								4	0	1	7		Z						7	8		8	1			1			
3				10							4	1	1	8		1						7	9		10							
4	1	9									4	2	Z	7	T	1						8	0		10							
5	6	3				1					4	3	1	7		Z						8	1	T	10			T				
6			T	10							4	4	Z	6		Z						8	2	Z	7	1						
7	3	T	5				Z				4	5	1	8	1							8	3	4	Z				4			
8	1	8	1								4	6	3	6	1							8	4	3	3	1			3			
9	1				T	T					4	7	1	9	T							8	5	1	8	1						
10	Z	T	6				T	Z			4	8		1	9	T						8	6	2	1	4				3		
11				9		1		T			4	9		1	9							8	7	T	10							
12	4	3	1	Z							5	0	T	10		T						8	8		10		T					
13	7	Z	1			T					5	1	7	9		1						8	9	4	Z		4					
14	3	7	T								5	2	1	7		Z						9	0				2					
15	3	T	6	1							5	3	Z	6		1	1					9	1		10	T						
16	3	7	T								5	4	1	9								9	2	Z	3			1	1			
17	1		9								5	5	1	9			T					9	3	4	1	1				1		
18		1	9			T					5	6	T	8		1						9	4	5		1	T			1		
19	1	T	7		Z						5	7	3	5	Z							9	5	3	4	T	3					
20	Z	T	7	1							5	8	T	10		T						9	6	5	4	T	1					
21	1	6	T		Z	1					5	9	Z	8	T							9	7	6	Z	Z						
22	1	8	1								6	0		10		T						9	8		4	1			5			
23	3	6	T			1					6	1		1	9							9	9		10	T						
24	1	T	8	T			1				6	2	1	T	7	Z						10	0		9	1						
25	Z	7	1								6	3	Z	7	1																	
26	4	4	Z			T					6	4	T	10			T															
27	T	10		T							6	5	Z	7	1																	
28	1	8	1								6	6	T	10																		
29	3	T	5	Z							6	7	4	4	Z																	
30	T	10	T								6	8	1	8	1																	
31	1	1	6	T		Z					6	9	6	Z	Z																	
32	Z	7	1								7	0	Z	8																		
33	T	10									7	1	3	6	1																	
34	Z	Z	5	1							7	2	Z	6	Z																	
35		9	1								7	3	Z	6	1																	
36	3	7									7	4		10	T																	
37	T	9	1								7	5	1	8	1																	
38		1	9								7	6	1	8																		

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 9-13-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Eight

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES					FORBS AND SHRUBS					Annual
	Boer	Bogr	Hya	Muta	Arlo-l	Gusa	Sacol				
1		30	1	20		1					
2	18	32		22		1					
3	3	68		17	1	1					
4	25	45		4							
5	55		3	6							
6	25	30	5	4							
7	55		3	6							
8		34	7	26		11					
9	37	36	5	12							
10		39	4	12	1	2	1				
<u>X</u>											
<u>f</u>											

Study/Location: Bernalillo  
 Allotment/#: \_\_\_\_\_  
 Transect #: Nine

Date: 9-13-82  
 Pasture: \_\_\_\_\_  
 Vegetation Type \_\_\_\_\_ Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

SPECIES -											-SPECIES-											-SPECIES-											
Pt. #	L	R	B	S	Boer	Boer	Gusa	Yugl	Hija	Annual	Pt. #	L	R	B	S	Boer	Boer	Gusa	Yugl	Hija	Annual	Pt. #	L	R	B	S	Boer	Boer	Gusa	Yugl	Hija	Annual	
1		3	3			2	2				3	9	1	2				7				7	7	3	5								
2		3	6			1					4	0	1	8		1						7	8	T	D								
3		1	9								4	1		2	7	1						7	9	1	8		1						
4	1		8		1						4	2		9		1						8	0	1	9		T						
5	3	1	4		2						4	3	1	8		1						8	1	2	8	T							
6	1		8		1						4	4	2	6		2						8	2		9		T						
7			9			1					4	5	1	8		1						8	3	1	9	T							
8	1		9								4	6		9		1						8	4	2	7		1						
9	T		10		T						4	7	2	4	3	1						8	5		10								
10	T		10								4	8	T	10								8	6	T	10								
11	1		7		2						4	9	1	7	2							8	7		8	Z							
12		T	10								5	0	1	4	5							8	8	1	7		Z	T					
13	1		7		2						5	1	3	6	1							8	9	2	7		1						
14	T		10								5	2	5	4	1			5				9	0		9								
15			10								5	3	1	9	T	T		1				9	1	2	7		1						
16	T		10								5	4	5	4		1						9	2	1	9								
17	1		8		1						5	5	T	10		T						9	3	1	7		1						
18	1		7		2						5	6	1	1	8							9	4	1	9		T						
19		T	9		1						5	7	1	5	4							9	5	1	9		T						
20			9		1						5	8	2	7	1							9	6	1	9		T						
21	2		7		1						5	9		T	10							9	7		10								
22	1		9								6	0	1	8	T	1						9	8	8	2								
23	2		7		1						6	1	1	7	2							9	9		9								
24	1		8		1						6	2	1	8		1						100	1	6			Z	1					
25	1		9								6	3	1	9		T																	
26	2		7		1						6	4	4	4	T	Z																	
27	1		7		2						6	5	2	8		T																	
28	1		8		1						6	6	T	10																			
29	2		6		2						6	7		10																			
30	T		9		1						6	8	1	8		1																	
31	1		8		1						6	9		8		2																	
32	3		7		T						7	0	1	8		1																	
33	1		8		1						7	1	4	5	T	1																	
34	T		8		2						7	2	T	10																			
35	1		1		8						7	3		9		1																	
36	2		3		5		T				7	4		10		T																	
37	1		6		3						7	5	1	8		1																	
38	1		2		7						7	6	1	6		Z		1															

CIRCULAR DENSITY PLOT .5 m<sup>2</sup>

F2

Study/Location: Bernalillo

Date: 9-13-82

Allotment/#: \_\_\_\_\_

Pasture: \_\_\_\_\_

Transect #: Nine

Vegetation Type: \_\_\_\_\_

Habitat Type #: \_\_\_\_\_

Reader/Recorder: \_\_\_\_\_

Plot #	GRASSES				FORBS AND SHRUBS					Annual
	Boer	Hya	Moto	Boar	Fusa	Spool	Hemel	Xgl	Orun	
1	4		6	39						
2	7			58	1		2			
3	47									
4	6		2	50	1			1		
5	30			9		2		1		
6	19	8		12						
7	12	9	10							
8	11			41						
9	2		2	71						
10	27			30	1				1	
$\bar{x}$										
f										

Sept 1982

Bernalillo Watershed - Parker 3 trap Insects

line	Insect #	H <sub>2</sub> O	Boys	Boer	Boer mnts	Nits / 1.00 det	Spee	Ando	Taken	Opel	Aeel	Guar	Moss	Rock	Litter	Bare Soil	Sumo
1	1	1				1	4								35	69	
2	2			2		4	6					1		3	25	59	
3	3	2				4	3							2	25	63	
4	4					4	7							1	11	78	
5	5		12	4	2					1		1		1	11	8	
6	6		5	6	1			1						6	15	6	
7	7	1	8	1					1					6	24	53	
8	8	3	10	5		5								5	16	60	
9	9	1	14	11									2	1	21	50	

all plants taken in 100'

= 100

1980

Parker 3 strip Transects - Bernalillo Watershed  
Hits / 100 Feet

Line Transect #	Hija	Boyr	Boer	Boew	Muto	Sper	Arb	Sily	Guar	Bare Soil	Litter
1	2		4		4	5		1	1	50	33
2	3		2		2	2			1	53	
3	9				5	7			1	43	
4	6				2	9				59	
5	1	8	3							16	
6		7	2							9	
7		11			6	1		1	3	40	
8	3	9	3		4					46	
9	1	12	5		1				1	38	



11/1/80

CSA Bernalillo Watershed 1980

(Σ of all numbers) (all plants) Counts / 100 Feet

Line Transect #	Hija	Bojn	Boen	Boen	Menta	Spec	Arbo	Sily	Green	Bare Soil
1	31		25		25	31		7	46	10
2	29		18		20	48			81	20
3	50		1		18	24	4	1	72	19
4	22		5		12	73				15
5	10	76	22	12		5		1		
6		25	20	11			3		3	1
7	21	80	7		43	5	1	5	61	10
8	16	37	43		18	1		1	39	5
9	16	70	90		11	2			12	8

CSA Bernalillo Watershed 1982

Counts per 100 Feet

Line Transect #	Hija	Bojn	Boen	Boen	menta	spec	Arbo	Sily	Green	Bare Soil
1	9		13		13	53			41	14
2	18			23	24	44			64	19
3	20				15	33			30	20
4	9		7		15	55				13
5	1	49	24	10	1		4		10	
6		34	14	10			1		4	
7	8	79	13		35	23	4	2	58	9
8	6	53	44		12				39	2
9	6	53	78						13	2



Baculiflo Watershed Parker Transects + Point Transects

9/9 & 9/12 1983

Transect	Spcr	Mato	Boyr	Hija	Musg	Mupo	Boerl	Bohi	Gusa	Opcl	Annual	Bare Soil	Litter	Rock
Parker <sup>15</sup>	1	5	4		1	2	1		2		0	54	29	2
Point <sup>26</sup>	1	8	5		1	0	0	6	4		2	52	22	0
Parker <sup>17</sup>	2	5	6		3			2	1		0	46	36	1
Point <sup>22</sup>	2	5	5		4			5	2		1	58	20	0
Parker <sup>17</sup>	3	6	4		6			0	1		0	45	36	2
Point <sup>6</sup>	3	0	5		1			0	0		0	76	18	0
Parker <sup>15</sup>	4	9	4		1			0	0	1	0	60	24	1
Point <sup>10</sup>	4	6	2		0			0	0	1	1	73	16	1
Parker <sup>14</sup>	5			12				1	1			4	29	53
Point <sup>11</sup>	5			3		Boerl 1		2	2	1	Stnc 1	29	9	51
Parker <sup>14</sup>	6	Arfe 1		8		0		2	2		Stnc 1	3	27	56
Point <sup>13</sup>	6	0		8		Leor 1		3	0	1	0	14	20	53
Parker <sup>25</sup>	7	1	10	10	2	Arfe 1		1	0			36	35	4
Point <sup>26</sup>	7	0	8	8	3	0		4	3			50	24	1
Parker <sup>16</sup>	8		4	1	1			8	2			48	34	2
Point <sup>7</sup>	8		1	2				2	2			70	22	1
Parker <sup>32</sup>	9	1	6	13	1			10	1			38	27	3
Point <sup>23</sup>	9	0	4	11	1			6	1			48	26	3

Katharine  
 Mitchell 1983  
 Point vs Parker  
 Comparisons



Report written by Nov-24,  
Tom Edstrom R-3 m, 1968  
for SES

\* TRANSECT DATA

BENJAMINO WASTEWATER

The effectiveness of land treatment measures in general has been good. The watershed shows improvement in vegetation and most of the structural storage capacity still exists.

Surface runoff reduction from contour chiseling and pitting is now obtained only indirectly by the resultant increase in grass cover which is not strikingly evident. It is now difficult to observe where these treatments were made due to the erosive characteristics of the soil.

The low gentle slope terraces have revegetated well especially with galleta and sand dropseed. They still provide storage although some has been lost due to accumulated sediment deposits. Rodent damage has been and continues to be a problem requiring yearly control of populations and structure maintenance.

The steep slope terraces provide considerable capacity for storage but here again as expected the total capacity has been reduced by soil deposition. Sidecast grass and chamise have been established in and on terrace slopes but could not be considered as effectively covering and stabilizing these structures.

Gully plugs continue to function with the basins supporting increased vegetative growth.

Protection from grazing has apparently benefited increased vegetative cover and litter accumulation considerably, as evidenced by fence line contact.

RANGE STUDIES  
Barraballo Watershed

To evaluate the effect of land treatment measures on range vegetation, the U. S. Forest Service installed nine 100 ft. line transects on May 26, 1955. Locations for transects have been selected that best sample the area.

These transects comprise step #2 of Parker's Three Step Method. Permanent steel stakes designate the transect locations and readings are taken along a 100 ft. steel tape at one-foot intervals. Readings are recorded for what is visible in a loop of 3/4" diameter. Successive observations are made on the exact area defined by the original 3/4" loop reading. In this way, changes observed for each loop reading can be interpreted to indicate trends. Possible recordings for each loop reading are:

1. Perennial plants - by species of any portion (basal root crown for grasses and forbs - horizontal crown intercept for shrubs) falls within the 3/4" loop.
2. Rock - if 50% or more of loop is covered by rock with diameters of over 3/4".
3. Litter - if effective litter covers 50% or more of the 3/4" loop.
4. Bare soil - if over 50% of the 3/4" loop is composed of bare soil and no perennial plants are within the loop circumference.

These nine permanently located transects were reread on May 15, 1961 by the Forest Service. The 1955 and 1961 data are presented here to be evaluated as an indication of the effectiveness of treatment measures. It is not suggested that final conclusions can be drawn. Continuing readings and correlation of these with forage production and rainfall data will be necessary to draw final conclusions.

Composition, of species, is divided into decreaseers, increaseers, and invaders. These are based upon an ecological breakdown. Decreaseers are usually more palatable or desirable plants from the standpoint of live-stock use, while increaseers are those plants that benefit by the heavy utilization of decreaseers. Invaders are those plants that are always increasing with ecological set backs such as bared soil and over-grazing. Invaders are seldom desirable from the standpoint of palatability.

Composition  
% of Total Firs on Perennial Plants

	<u>Decreasers</u>	<u>Increasers</u>	<u>Invaders</u>
1955	19%	33%	42%
1961	31%	56%	13%

Note that a favorable trend is indicated, especially the reduction of invaders from 42% to 13%; in most cases invaders do not give the degree of soil protection that is given by the other two categories.

Species Intercepted by 3/4" Loop

(+, -, 0) indicates an increase, decrease or no change in frequency in 1961 compared to 1955

1955	Decreasers	Black grama, Galleta
1955	Increasers	Blue grama, Sand dropseed
1955	Invaders	Ring mully
1961	Decreasers	+ Hairy grama, 0 Black grama, + Sidecoats grama, - Galleta
1961	Increasers	- Blue grama, + Sand dropseed
1961	Invaders	- Ring mully

The increase in sidecoats grama and sand dropseed could be partially due to reseedling these species.

Vigor

	<u>1955</u>		<u>1961</u>	
	Seed Stalk	Leaf	Seed Stalk	Leaf
Sand dropseed	9"	2"	15"	3"
Blue grama	8"	2"	9"	2"

The increase in vigor is so slight that it would be difficult to conjecture on the influence of any other factor than precipitation.

Summary Hits  
Average For 1955' transect

	<u>1955</u>	<u>1961</u>
Hits - All Plants	9	10
Rock	5	9
Litter	9	19
Bare soil	77	62

From the Summary of Hits it can be seen, that for hits on plants, there has been no significant increase. It would be difficult to explain the increased presence of rock. Possibly the recently disturbed soil in 1955 was washed away exposing a greater cover of rock. The cover of litter has more than doubled and this is definitely an indication of an upward trend in hydrologic conditions. As a result of these increases, bare soil has decreased but still comprises about 2/3 of the total complex. Combining bare soil and rock gives 71% of the total complex to contribute to rapid runoff.

Local observers indicate that black grama is much more apparent now than in 1955; transect information does not agree. They say that fourwing saltbush, which was introduced into this area by plantings, has become well established and continues to provide excellent soil protection. Also, the indigenous Apache-plume is impressive in its natural propagation, growth, and soil protection.

The above information suggests a slight upward trend in both range and hydrologic conditions. No doubt, protection from grazing and the application of land treatment measures has had an effect. Fence line contrasts and observed vegetative growth associated with treatment measures, indicates a beneficial effect. A definite trend and contributing factors still remain to be determined.

Species List of Plants Referred To

Waxy grama	<u>Bouteloua hirsuta</u>
Black grama	<u>B. curtipendula</u>
White grama	<u>B. gracilis</u>
Sideoats grama	<u>B. curtipendula</u>
Gallega	<u>Hilaria parviflora</u>
Ring mahly	<u>Lophosiphonella torreyi</u>
Apache-plume	<u>Hesperaloe parviflora</u>
Fourwing saltbush	<u>Atriplex canescens</u>



Please note:

The attached precipitation data includes much extrapolated data. Only two recording rain gauges have been used to arrive at this compilation. Further processing of data and alternate methods of extrapolation may result in summaries at a later date that do not agree with that presented here.

It is felt that the average of these two gauges gives a comparatively good average for the watershed. Also, the close proximity of the U. S. Weather Bureau Station at the Town of Bernalillo adds confidence to the accuracy of figures obtained by correlation with this Weather Bureau data. At this time, this is the best monthly precipitation information available for the Bernalillo Watershed.

Monthly Summary

Average value listed for the ascending rain gauge for 1954-1960

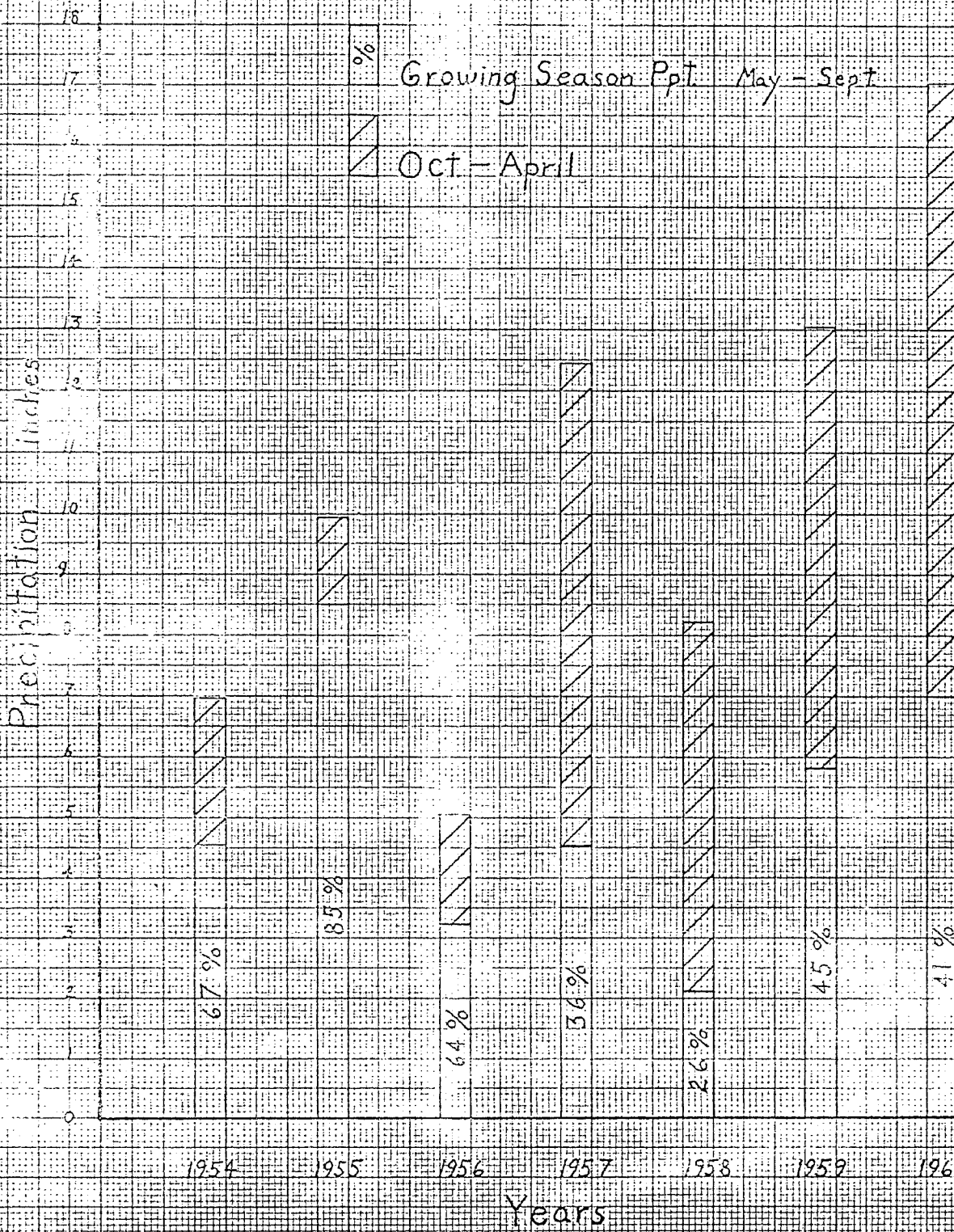
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1954	.62	.06	.55	.01	*1.06	.47	1.12	.25	1.01	.90	.14	.40	5.85
1955	.40	.30	.00	.23	1.35	.50	4.11	2.45	.09	*.02	*.12	*.41	9.96
1956	.63	.46	.00	.00	.49	.56	1.18	1.00	.00	.63	*.00	*.00	5.05
1957	.90	.70	1.24	.51	.72	.21	1.96	1.29	.34	3.11	*1.20	*.27	12.45
1958	.62	.02	1.34	.28	.32	.12	.00	.44	1.24	.98	.65	2.20	8.21
1959	.01	.01	.94	*1.21	*.39	*.84	*.45	4.54	.00	*2.66	*.04	*1.95	13.05
1960	.78	.44	*1.05	.02	1.10	1.62	1.46	2.30	.52	6.12	*.29	*.10	17.10
Average	.57	.33	.73	.32	.78	.62	1.56	1.75	.46	2.01	.35	.90	10.38

\* Extrapolated data - known precipitation on watershed correlated with U. S. Weather Bureau Station data for Town of Bernalillo

# ANNUAL PRECIPITATION

Bernalillo Watershed

1954 - 1960



7 3.6" = 58% Growing Season Ppt.



PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1955 BOER	0	0	0	0	1	0	0	3	4	
1955 BOGR	0	0	0	0	3	5	1	5	4	
1955 HIJA	0	1	4	0	0	0	1	0	1	
1955 MUTO	4	5	1	7	0	0	7	11	3	
1955 SPGR	5	2	1	0	0	0	1	0	0	
ALL PLANTS	9	8	6	7	4	5	10	19	12	9
1955 BARE SOIL	85	78	84	86	66	54	80	73	83	77
1955 LITTER	6	14	10	7	17	8	9	7	4	9
1955 ROCK	0	0	0	0	13	33	1	1	1	5

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1961 BOCU	0	0	0	0	0	2	0	0	0	
1961 BOER	0	0	0	0	1	0	0	1	6	
1961 BOGR	0	0	0	0	0	2	2	3	9	
1961 BOHI	0	0	0	0	5	4	0	0	0	
1961 HIJA	0	0	1	0	0	0	1	0	1	
1961 MUTO	0	1	0	1	2	0	1	11	3	
1961 SPGR	5	10	12	3	0	1	2	0	0	
ALL PLANTS	5	11	13	4	8	9	6	15	19	10
1961 BARE SOIL	63	69	67	64	52	36	64	74	69	62
1961 LITTER	32	20	19	32	3	13	29	10	11	19
1961 ROCK	0	0	1	0	37	42	1	1	1	9

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRANS	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1965 ARFE	0	0	0	0	0	3	0	0	0	
1965 BUJU	0	0	0	0	1	3	0	0	0	
1965 BOER	0	0	0	0	3	9	2	6	12	
1965 BOGR	0	0	0	0	19	14	8	13	16	
1965 HIJA	2	1	6	1	0	0	2	0	0	
1965 MOSS	0	0	0	0	0	0	1	0	3	
1965 MUTO	2	1	1	1	1	0	6	7	5	
1965 SPCR	21	21	18	13	0	0	9	0	0	
ALL PLANTS	25	23	25	15	24	29	28	26	36	26
1965 BARE SOIL	67	71	69	81	18	3	64	58	54	54
1965 LITTER	7	3	5	4	9	3	5	13	8	6
1965 ROCK	1	3	1	0	49	65	3	3	2	14

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRANS	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1970 BOJU	0	0	0	0	1	1	0	0	0	
1970 BUER	0	0	0	0	3	4	2	5	10	
1970 BOGR	0	0	0	0	7	14	5	7	16	
1970 GUSA	0	0	0	0	1	0	0	0	0	
1970 HIJA	3	0	8	2	0	0	2	0	3	
1970 MOSS	1	0	0	1	0	0	0	0	0	
1970 MUTO	0	1	0	0	1	0	4	6	1	
1970 DRHY	0	0	0	0	1	0	0	0	0	
1970 SPCR	11	15	7	6	0	0	8	0	0	
ALL PLANTS	15	16	15	9	14	19	21	18	30	17
1970 BARE SOIL	60	71	58	72	8	7	64	55	46	49
1970 LITTER	24	12	27	19	11	19	12	16	14	17
1970 ROCK	1	1	0	0	67	55	3	11	10	16

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1975 ARIS	1	0	0	0	0	0	3	0	0	0
1975 BOCU	0	0	0	0	1	2	0	0	0	0
1975 BOEP	1	1	1	2	3	2	0	10	15	15
1975 BOGR	0	0	0	0	10	8	12	9	15	15
1975 GUSA	0	0	0	0	0	0	1	1	0	0
1975 HIJA	4	0	10	5	2	0	3	1	1	1
1975 MUTO	2	2	1	1	0	0	5	2	0	0
1975 SPCR	7	14	9	5	0	0	5	1	0	0
1975 STCO	0	0	0	0	1	0	0	0	0	0
ALL PLANTS	15	17	21	13	17	12	29	24	31	20
1975 BARE SOIL	41	49	27	44	7	9	55	57	41	37
1975 LITTER	44	32	51	42	14	23	15	14	24	29
1975 ROCK	0	2	1	1	62	56	1	5	4	15

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1980 ASTR	0	0	0	0	0	1	0	0	0	0
1980 BOER	4	2	0	0	3	2	0	3	5	5
1980 BOGR	0	0	0	0	9	7	11	9	12	12
1980 BOHI	0	0	0	0	0	8	0	0	0	0
1980 EUPH	0	0	0	0	1	0	0	0	0	0
1980 GUSA	1	1	1	0	0	0	3	0	1	1
1980 HASP	0	0	0	0	0	0	1	0	0	0
1980 HIJA	2	3	9	6	1	0	0	3	1	1
1980 HYAC	0	0	0	0	1	0	0	0	0	0
1980 HYLJ	0	0	0	0	1	0	0	0	0	0
1980 JUMO	0	0	0	0	0	1	0	0	0	0
1980 MUTO	4	2	5	2	0	0	6	4	1	1
1980 OPEN	0	0	0	1	0	1	0	0	0	0
1980 SIHY	1	0	0	0	0	0	1	0	0	0
1980 SPCR	5	2	7	9	0	0	1	0	0	0
1980 STNE	0	0	0	0	1	0	0	0	0	0
ALL PLANTS	17	10	22	18	17	20	23	19	20	18
1980 BARE SOIL	50	53	43	59	16	10	40	46	38	39
1980 LITTER	33	36	35	23	14	21	36	33	38	30
1980 ROCK	0	1	0	0	53	49	1	2	4	12

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1982 ARLO	0	0	0	0	0	1	0	0	0	0
1982 ASCL	0	0	0	0	1	0	0	0	0	0
1982 BUCU	0	0	0	0	2	1	0	0	0	0
1982 BOER	0	2	0	0	4	5	1	5	11	11
1982 BOGR	0	0	0	0	13	6	8	10	14	14
1982 GUSA	0	1	1	0	1	0	1	1	0	0
1982 HIJA	1	0	2	0	0	0	1	3	1	1
1982 JUMO	0	0	0	0	0	1	0	0	0	0
1982 MOSS	0	0	0	0	0	0	0	0	2	2
1982 MUTO	1	4	4	4	0	0	5	0	0	0
1982 OPCL	0	0	0	1	0	1	0	0	0	0
1982 STAY	0	0	0	0	0	0	1	0	0	0
1982 SPGR	4	6	3	7	0	0	0	0	0	0
ALL PLANTS	6	13	10	12	21	15	17	19	28	16
1982 BARE SOIL	69	59	63	76	7	6	53	60	50	49
1982 LITTER	25	25	25	11	11	15	24	16	21	19
1982 ROCK	0	3	2	1	61	64	6	5	1	16

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1983 ARFE	0	0	0	0	0	1	1	0	0	0
1983 BOER	0	2	0	0	1	2	1	8	10	10
1983 BOGR	0	0	0	0	12	8	10	1	13	13
1983 BOHI	0	0	0	0	0	2	0	0	0	0
1983 GUSA	2	1	1	0	1	0	0	2	1	1
1983 HIJA	1	3	6	1	0	0	2	1	1	1
1983 MOSS	0	0	0	0	0	1	1	0	0	0
1983 MUPO	1	0	0	0	0	0	0	0	0	0
1983 MUSO	2	0	0	0	0	0	0	0	0	0
1983 MUTO	4	6	4	4	0	0	10	4	6	6
1983 OPCL	0	0	0	1	0	0	0	0	0	0
1983 SPGR	5	5	6	9	0	0	1	0	1	1
1983 STNE	0	0	0	0	0	1	0	0	0	0
ALL PLANTS	15	17	17	15	14	15	26	16	32	19
1983 BARE SOIL	54	46	45	60	4	3	36	48	39	37
1983 LITTER	29	36	36	24	29	26	34	34	26	30
1983 ROCK	2	1	2	1	53	56	4	2	3	14



PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRANS	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1984 AMNU	0	0	0	0	0	1	0	0	0	0
1984 BUCU	0	0	0	0	0	1	0	0	0	0
1984 BOER	2	3	0	2	2	1	1	7	8	
1984 BOGR	0	0	0	0	3	5	12	10	12	
1984 BOHI	0	0	0	0	1	1	0	0	0	
1984 GUSA	2	1	1	0	2	0	1	1	1	
1984 HASP	0	0	0	0	0	0	1	0	0	
1984 HIJA	1	2	5	0	0	0	3	0	0	
1984 MOSS	0	0	0	0	0	0	0	0	2	
1984 MUPO	1	0	0	0	0	0	0	0	0	
1984 MUTO	5	6	3	3	0	0	8	5	1	
1984 OPUU	0	0	0	2	0	0	0	0	0	
1984 SIHY	0	0	0	0	0	0	1	0	0	
1984 SPCR	5	5	7	14	0	0	1	0	2	
1984 STCO	0	0	0	0	1	0	0	0	0	
ALL PLANTS	16	17	16	21	9	9	28	23	26	18
1984 BARE SOIL	54	45	50	56	11	12	52	45	54	42
1984 LITTER	29	35	34	22	16	21	19	27	19	25
1984 ROCK	1	3	0	1	64	58	1	5	1	15

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRANS	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1985 ARLO	0	0	0	0	0	0	1	0	0	0
1985 BUCU	0	0	0	0	0	1	0	0	0	0
1985 BOER	3	2	0	2	1	3	1	4	6	
1985 BOGR	0	0	0	0	6	4	12	13	12	
1985 BOHI	0	0	0	0	4	5	0	0	0	
1985 GUSA	1	1	0	0	1	0	4	0	1	
1985 HASP	0	0	0	0	0	1	1	0	0	
1985 HIJA	0	2	6	1	0	0	2	3	1	
1985 MUTO	3	4	1	4	0	0	4	6	5	
1985 OPCL	0	0	0	1	0	0	0	0	0	
1985 SIHY	0	0	0	0	1	1	0	0	0	
1985 SPCR	4	5	5	10	0	0	0	0	0	
1985 STCO	0	0	0	0	3	0	0	0	0	
ALL PLANTS	11	14	12	18	16	15	25	26	25	18
1985 BARE SOIL	59	49	51	54	12	4	50	53	45	42
1985 LITTER	30	36	37	27	12	24	22	18	28	26
1985 ROCK	0	1	0	1	60	57	3	3	2	14

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1986 ARFE	0	0	0	0	0	1	0	0	0	0
1986 BUCU	0	0	0	0	1	1	0	0	0	0
1986 BUER	4	5	0	4	2	0	0	4	5	5
1986 BOGR	0	0	0	0	11	5	17	13	16	16
1986 BUHI	0	0	0	0	4	6	0	0	0	0
1986 GUSA	2	1	0	0	1	0	0	0	1	1
1986 HIJA	0	2	4	1	0	0	2	1	0	0
1986 LEER	0	0	0	0	0	2	0	0	0	0
1986 MUPO	1	0	0	0	0	0	0	0	0	0
1986 MUTO	3	8	2	3	0	0	7	8	4	4
1986 OPCL	0	0	0	1	0	0	0	0	0	0
1986 PHILOX	0	0	0	0	0	0	0	1	0	0
1986 SPCR	2	4	4	13	0	0	1	0	0	0
1986 YUGL	0	0	0	0	0	0	0	0	1	1
ALL PLANTS	12	20	10	22	19	15	27	27	27	20
1986 BARE SOIL	58	47	52	62	14	11	48	53	47	44
1986 LITTER	30	31	38	16	13	14	25	15	24	23
1986 ROCK	0	2	0	0	54	60	0	5	2	14

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1987 ARFE	0	0	0	0	0	1	0	0	0	0
1987 BUCU	0	0	0	0	0	2	0	0	0	0
1987 BUER	4	10	0	5	1	1	2	8	9	9
1987 BOGR	0	0	0	0	4	8	16	15	13	13
1987 BUHI	0	0	0	0	4	1	0	0	0	0
1987 EUPH	0	0	0	0	0	1	0	0	0	0
1987 GUSA	2	2	0	0	1	0	4	0	1	1
1987 HRSP	0	0	0	0	0	1	1	0	0	0
1987 HIJA	1	1	10	1	0	0	1	2	1	1
1987 Hyme	0	0	0	0	1	0	0	0	0	0
1987 MUTO	3	9	2	0	0	0	6	7	11	11
1987 OPPU	0	0	0	1	0	1	0	0	0	0
1987 PEST	0	0	0	0	0	2	0	0	0	0
1987 STHY	0	1	0	0	0	1	1	1	0	0
1987 SPCR	3	6	4	11	0	0	0	0	0	0
1987 STCO	0	0	0	0	1	0	0	0	0	0
ALL PLANTS	13	29	16	18	12	19	31	33	35	23
1987 BARE SOIL	50	36	50	49	11	6	46	47	32	36
1987 LITTER	37	32	33	31	20	17	21	15	27	26
1987 ROCK	0	3	1	2	57	58	2	5	6	15

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1988 ARFE	0	0	0	0	0	1	0	0	0	0
1988 ARLO	0	0	0	0	1	0	0	0	0	0
1988 BOCU	0	0	0	0	1	1	0	0	0	0
1988 BOER	6	2	0	5	1	2	1	5	11	11
1988 BOGR	0	0	0	0	3	2	19	16	20	20
1988 BOHI	0	0	0	0	10	4	0	0	0	0
1988 GUSA	1	1	0	0	0	0	2	2	1	1
1988 HASP	0	0	0	0	1	1	1	0	0	0
1988 HIJA	0	0	7	3	0	0	1	1	0	0
1988 MOSS	6	1	2	0	0	1	0	0	1	1
1988 MUTO	3	8	1	5	0	0	5	9	8	8
1988 OPEN	0	0	0	0	0	1	0	0	0	0
1988 OPPU	0	0	0	1	0	0	0	0	0	0
1988 SIHY	0	2	0	0	0	0	0	2	0	0
1988 SPCR	6	10	8	19	0	0	0	0	1	1
1988 STCO	0	0	0	0	3	1	0	0	0	0
ALL PLANTS	22	24	18	33	20	14	29	35	42	26
1988 BARE SOIL	58	49	57	54	3	3	55	34	38	39
1988 LITTER	20	25	25	11	16	17	14	19	18	18
1988 ROCK	0	2	0	2	61	66	2	12	2	16

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR	SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1989	ARLO	0	0	0	0	0	0	1	0	0	0
1989	BOCU	0	0	0	0	0	1	0	0	0	0
1989	BOER	7	7	3	8	0	1	3	4	10	10
1989	BOGR	0	0	0	0	1	4	21	14	17	17
1989	BOHI	0	0	0	0	7	3	0	0	0	0
1989	EUPH	0	0	0	2	0	0	0	0	0	0
1989	GUSA	1	0	2	0	0	0	1	1	0	0
1989	HASP	0	0	0	0	0	0	1	0	0	0
1989	HIJA	0	2	4	2	0	0	0	1	0	0
1989	LEER	0	0	0	0	0	2	0	0	0	0
1989	MOSS	0	0	0	0	0	1	0	0	0	0
1989	MUTO	5	5	2	1	0	0	2	4	4	4
1989	OPEN	0	0	0	1	0	0	0	0	0	0
1989	PHLOX	0	0	0	0	0	0	0	1	0	0
1989	SIHY	0	1	0	0	0	0	0	1	0	0
1989	SPCR	4	9	6	11	0	0	0	0	0	0
1989	SPFE	0	0	0	1	0	0	0	0	0	0
1989	STCU	0	0	0	0	1	0	0	0	0	0
1989	YUGL	0	0	0	0	0	0	0	0	1	1
	ALL PLANTS	17	24	17	26	9	12	29	26	32	21
1989	BARE SOIL	53	43	52	39	7	1	44	53	29	36
1989	LITTER	28	31	31	33	24	32	22	15	36	28
1989	ROCK	2	2	0	2	60	55	5	6	3	15

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR	SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1990	ARFE	0	0	0	0	0	2	0	0	0	0
1990	ARLO	0	0	0	0	0	0	1	0	0	0
1990	BOBA	0	0	0	6	0	0	0	0	0	0
1990	BOCU	0	0	0	0	0	1	0	0	0	0
1990	BOER	9	5	1	4	1	2	2	5	9	9
1990	BOGR	0	0	0	0	0	1	16	8	14	14
1990	BUHI	0	0	0	0	6	6	0	0	0	0
1990	EUPH	0	0	0	1	0	0	0	0	0	0
1990	GUSA	0	2	2	1	0	0	1	2	0	0
1990	HASP	0	0	0	0	0	1	0	0	0	0
1990	HIJA	1	1	5	4	0	0	1	2	0	0
1990	Hyme	0	0	0	0	1	0	0	0	0	0
1990	LEER	0	0	0	0	0	1	0	0	0	0
1990	MOSS	0	0	0	0	0	0	0	0	1	0
1990	MUTO	6	3	3	2	0	0	1	5	4	4
1990	OPEN	0	0	0	1	0	1	0	0	0	0
1990	SPCR	4	8	5	10	0	0	0	0	0	0
1990	YUGL	0	0	0	0	0	0	0	0	1	1
	ALL PLANTS	20	19	16	29	8	15	22	22	29	20
1990	BARE SOIL	40	39	48	42	9	2	41	51	43	35
1990	LITTER	39	41	35	28	19	21	29	22	24	29
1990	ROCK	1	1	1	1	64	62	8	5	4	16

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Table 1.--Transsect data on the Bernalillo Watershed

Transsect Number	1	2	3	4	5	6	7	8	9	Average
Year	55 60 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65
Perennial Grasses					mits					
ring mainly	4 - 2	5 1 1	1 - 1	7 1 1	- 2 1		7 1 6	12 11 7	3 3 5	
blue grama					3 - 19	5 2 14	1 2 8	5 3 12	4 9 16	
black grama					1 1 3	- - 9	- - 2	3 1 7	4 6 12	
galleta	- - 2	1 - 1	4 1 6	- - 1			1 1 2		1 1 -	
sand dropseed	5 5 21	2 10 21	1 12 18	- 3 13		- 1 -	1 2 9			
side-ovate grama					- - 1	- 2 3				
threeawn						- - 2				
hairy grama					- 5 -	- 4 -				
All plants	9 5 25	8 11 23	6 13 25	7 4 15	4 8 24	5 9 28	10 6 29	20 15 26	12 19 35	9 10 26
Rook	0 0 1	0 0 3	0 1 1	0 0 0	13 37 49	31 42 65	1 1 3	1 1 3	1 1 2	5 9 14
Litter	6 32 7	14 20 3	10 19 5	7 32 4	17 3 9	8 13 3	9 29 5	7 10 13	4 11 8	9 19 6
Bare soil	85 63 67	78 69 71	84 67 69	86 64 81	66 52 18	56 36 4	80 64 63	72 74 58	83 69 57	77 62 54



BERNAB9.DAT - TRAN

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ALLOTMENT BERNALIL PASTURE TRANSECT 1 DATE 083089

VEGETATION TYPE HABITAT TYPE

PLANT COVER 27.075 LITTER 17.000 BARE (calc) 38.875 BARE (obs) 40.900 ROCK 17.050

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE
					VALUE
MUTO	MUHLENBERGIA TORREYI	3.575	5.60	.70	.745
GUSA	GUTIERREZIA SARDTHRAE	8.800	1.60	.80	.662
ROER	BOUTELOUA ERIPODA	9.250	2.10	.50	.636
SPCR	SPOROBOLUS CRYPTANDRUS	3.525	2.20	.90	.540
HIJA	HILARIA JAMESII	1.400	1.40	.50	.293
ARLQ1	ARISTIDA LONGISETA	.200	.10	.10	.042
MUPQ1	MUHLENBERGIA PORTERI	.125	.10	.10	.039
OPEN	OPUNTIA ENGELMANNII	.000	.10	.10	.035
ARFE1	ARISTIDA FENDLERIANA	.200	.00	.00	.007
	TOTALS	27.075	13.20		3.000
	DIVERSITY		1.56		

---NOTE---

Summary is for each transect by vegetation type.



BERNAB9.DAT - TRAN

ALLOTMENT BERNALIL PASTURE TRANSECT 2 DATE 083089

VEGETATION TYPE HABITAT TYPE

PLANT COVER 23.800 LITTER 37.225 BARE (calc) 17.650 BARE (obs) 18.600 ROCK 21.325

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
GUSA	GUTIERREZIA SARDOTRAE	10.825	2.50	1.00	.874
SPCR	SPOROBOLUS CRYPTANDRUS	7.475	5.20	.70	.861
HUTO	MUHLENBERGIA TORREYI	2.425	4.00	.40	.483
BOER	BOUTELOUA ERIPODA	3.875	1.30	.40	.330
HIJA	HILARIA JAMESII	.675	1.50	.50	.271
SIHY	SITANION HYSTRIX	.100	.20	.20	.075
EUPH	EUPHORBIA SPP.	.000	.10	.10	.035
LYJU	LYGODESHIA JUNCEA	.000	.10	.10	.035
OPEN	OPUNTIA ENGELMANNII	.000	.10	.10	.035
STPA	STEPHANOMERIA PAUCIFLORA	.025	.00	.00	.001
	TOTALS	23.800	15.00		3.000
	DIVERSITY		1.62		

---NOTE---

Summary is for each transect by vegetation type.

BERNAB9.DAT - TRAN

ALLOTMENT BERNALIL PASTURE TRANSECT 3 DATE 083089

VEGETATION TYPE HABITAT TYPE

PLANT COVER 22.125 LITTER 19.000 BARE (calc) 44.800 BARE (obs) 45.800 ROCK 14.075

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
HIIA	HILARIA JAMESII	6.025	8.50	.90	1.020
GUUA	GUTIERREZIA SAROTHRAE	8.825	2.00	.60	.689
SPCR	SPOROBOLUS CRYPTANDRUS	3.725	2.00	.90	.547
MUTO	MUHLENBERGIA TORREYI	1.750	4.10	.40	.430
ARLDI	ARISTIDA LONGISETA	.750	.30	.20	.110
BOER	BOUTELOUA ERIOPODA	.850	.20	.10	.079
OPEN	OPUNTIA ENGELMANNII	.200	.10	.10	.044
SPNEI	SPOROBOLUS NEALLEYI	.000	.20	.10	.041
SPFE	SPHAERALCEA FENDLERI	.000	.20	.10	.041
HAMM	MAMMILARIA SPP.	.000	.00	.00	.000
	TOTALS	22.125	17.60		3.000
	DIVERSITY		1.44		

---NOTE---

Summary is for each transect by vegetation type.

BERN89.DAT - TRAN

ALLOTMENT BERNALIL PASTURE TRANSECT 4 DATE 083009

VEGETATION TYPE HABITAT TYPE

PLANT COVER 20.350 LITTER 20.100 BARE (calc) 45.900 BARE (obs) 46.825 ROCK 13.650

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
SPCR	SPOROBOLUS CRYPTANDRUS	10.150	9.60	1.00	1.232
HIJA	HILARIA JAMESII	2.650	3.00	.60	.430
MUTO	MUHLENBERGIA TORREYI	1.925	3.10	.50	.375
EUPH	EUPHORBIA SPP.	.325	1.50	.60	.239
GUSA	GUTIERREZIA SAROTHRAE	1.925	.50	.40	.218
BOER	BOUTELOUA ERIOPODA	1.750	.90	.30	.205
BOBA	BOUTELOUA BARBATA	.050	.60	.30	.106
SPFE	SPHAERALCEA FENDLERI	.600	.10	.10	.059
OPEN	OPUNTIA ENGELMANNII	.600	.10	.10	.059
POOL	PORTULACA OLERACEA	.200	.10	.10	.039
HASP2	HAPLOPAPPUS SPINULOSUS	.000	.10	.10	.029
SIHY	SITANION HYSTRIX	.125	.00	.00	.006
MUPD1	MUHLENBERGIA PORTERI	.025	.00	.00	.001
ANNU	ANNUALS	.025	.00	.00	.001
	TOTALS	20.350	19.60		3.000
	DIVERSITY		1.57		

---NOTE---

Summary is for each transect by vegetation type.

BERNAB9.DAT - TRAN

ALLOTMENT BERNALIL PASTURE TRANSECT 5 DATE 082989

VEGETATION TYPE HABITAT TYPE

PLANT COVER 32.625 LITTER 28.000 BARE (calc) -24.225 BARE (obs) .825 ROCK 62.000

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
BOHI	BOUTELOUA HIRSUTA	5.850	10.20	.90	1.100
JUM0	JUNIPERUS MONOSPERMA	17.900	.20	.00	.549
BOER	BOUTELOUA ERIOPODA	1.925	3.00	.50	.413
STCO1	STIPA COMATA	2.075	.90	.30	.222
EUPH	EUPHORBIA SPP.	.125	.70	.20	.115
HYFI	HYMENOPAPPUS FILIFOLIUS	.625	.30	.20	.106
HYME1	HYMENOXYIS SPP.	.025	.30	.20	.088
BOGR	BOUTELOUA GRACILIS	1.100	.30	.10	.086
YUGL	YUCCA GLAUCA	1.150	.10	.10	.076
ARLD1	ARISTIDA LONGISETA	.500	.30	.10	.068
BUSA	GUTIERREZIA SAROTHRAE	.800	.10	.10	.065
HIJA	HILARIA JAMESII	.100	.20	.10	.050
MOSS	MOSS	.050	.10	.10	.042
HASP2	HAPLOPAPPUS SPINULOSUS	.300	.00	.00	.007
ARFE1	ARISTIDA FENDLERIANA	.100	.00	.00	.003
QUTU	QUERCUS TURBINELLA	.000	.00	.00	.000
OPPO	OPUNTIA POLYACANTHA	.000	.00	.00	.000
OPEN	OPUNTIA ENGELMANNII	.000	.00	.00	.000
	TOTALS	32.625	16.50		3.000
	DIVERSITY		1.34		

---NOTE---

Summary is for each transect by vegetation type.

BERNAB9.DAT - TRAN

ALLOTMENT BERNALIL PASTURE TRANSECT 6 DATE 082989

VEGETATION TYPE HABITAT TYPE

PLANT COVER 28.750 LITTER 36.575 BARE (calc) -15.950 BARE (obs) .100 ROCK 50.625

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
BOHI	BOUTELOUA HIRSUTA	7.050	7.00	.80	.897
JUM0	JUNIPERUS MONOSPERMA	12.900	.10	.10	.480
BOER	BOUTELOUA ERIOPODA	1.800	2.00	.70	.418
EUPH	EUPHORBIA SPP.	.225	1.40	.50	.223
STCO1	STIPA COMATA	.850	.70	.40	.175
GUSA	GUTIERREZIA SARDOTHRAE	.450	1.00	.30	.155
QUTU	QUERCUS TURBINELLA	2.025	.10	.10	.102
HYNE1	HYMENOXYS SPP.	.375	.50	.20	.095
HASP2	HAPLOPAPPUS SPINULOSUS	.625	.30	.20	.091
OPEN	OPUNTIA ENGELMANNII	.425	.30	.20	.084
LEER	LEUCELENE ERICOIDES	.325	.70	.10	.081
ARLD1	ARISTIDA LONGISETA	.650	.30	.10	.067
ERID1	ERIGONUM SPP.	.000	.10	.10	.031
HYFI	HYMENOPAPPUS FILIFOLIUS	.000	.10	.10	.031
MOSS	MOSS	.000	.10	.10	.031
ERIG	ERIGERON SPP.	.500	.00	.00	.017
BOGR	BOUTELOUA GRACILIS	.350	.00	.00	.012
LESQ	LESQUERELLA SPP.	.150	.00	.00	.005
LYJU	LYGODESMIA JUNCEA	.025	.00	.00	.001
ANNU	ANNUALS	.025	.00	.00	.001
TOTALS		28.750	15.50		3.000
DIVERSITY			1.84		

---NOTE---

Summary is for each transect by vegetation type.

BERNAB9.DAT - TRAN

ALLOTMENT      BERNALIL      PASTURE      TRANSECT      7      DATE   082989

VEGETATION TYPE      HABITAT TYPE

PLANT COVER 32.375      LITTER 20.875      BARE (calc) 41.325      BARE (obs) 41.700      ROCK 5.425

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
BOGR	BOUTELOUA GRACILIS	19.475	10.30	.90	1.501
BUSA	GUTIERREZIA SAROTHRAE	7.125	2.10	.90	.635
MUTO	MUHLENBERGIA TORREYI	2.125	1.70	.30	.263
HASF2	HAPLOPAPPUS SPINULOSUS	1.400	.50	.40	.202
BOER	BOUTELOUA ERIPODA	.625	1.50	.20	.173
HIJA	HILARIA JAMESII	.525	.30	.10	.066
SPCR	SPOROBOLUS CRYPTANDRUS	.100	.20	.10	.047
ARFE1	ARISTIDA FENDLERIANA	.100	.20	.10	.047
ATCA	ATRIplex CANESCENS	.000	.10	.10	.030
ARLO1	ARISTIDA LONGISETA	.000	.00	.00	.025
LYJU	LYBODESMIA JUNCEA	.100	.00	.00	.003
	TOTALS	32.375	16.90		3.000
	DIVERSITY		1.32		

---NOTE---

Summary is for each transect by vegetation type.

BERNAB9.DAT - TRAN

ALLOTMENT      BERNALIL      PASTURE      TRANSECT      8      DATE 082989

VEGETATION TYPE      HABITAT TYPE

PLANT COVER 36.350      LITTER 14.250      BARE (calc) 32.200      BARE (obs) 32.000      ROCK 17.200

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
BOGR	BOUTELOUA GRACILIS	15.000	10.10	1.00	1.165
BOER	BOUTELOUA ERIOPODA	6.500	3.50	.90	.564
KUTO	MUHLENBERGIA TORREYI	4.975	3.70	.80	.500
GUSA	GUTIERREZIA SAROTHRAE	6.475	1.20	.60	.300
HIJA	HILARIA JAMESII	1.200	1.30	.30	.168
ARLO1	ARISTIDA LONGISETA	.200	.30	.20	.068
LYJU	LYGODESMIA JUNCEA	.000	.20	.20	.057
EUPH	EUPHORBIA SPP.	.200	.10	.10	.034
PHLO	PHLOX LONGIFOLIA	.200	.10	.10	.034
YUGL	YUCCA GLAUCA	.700	.00	.00	.019
ARFE1	ARISTIDA FENDLERIANA	.100	.00	.00	.003
	TOTALS	36.350	20.50		3.000
	DIVERSITY		1.46		

---NOTE---

Summary is for each transect by vegetation type.

BERNAB7.DAT - TRAN

ALLOTMENT BERNALIL PASTURE TRANSECT 9 DATE 082989

VEGETATION TYPE HABITAT TYPE

PLANT COVER 31.375 LITTER 20.825 BARE (calc) 16.600 BARE (obs) 23.375 ROCK 31.200

SPECIES	SCIENTIFIC NAME	% COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
BOBR	BOUTELOUA GRACILIS	10.050	16.00	1.00	1.286
BOER	BOUTELOUA ERIPODA	9.250	7.10	.00	.042
GUSA	GUTIERREZIA SAROTHRAE	4.200	1.50	.60	.393
JUM0	JUNIPERUS MONOSPERMA	5.000	.00	.00	.185
YUGL	YUCCA GLAUCA	1.625	.30	.20	.130
SFCD1	SPHAERALCEA COCCINEA	.100	.10	.10	.040
MUTO	MUHLENBERGIA TORREYI	.025	.10	.10	.038
HYFI	HYMENOPAPPUS FILIFOLIUS	.000	.10	.10	.037
ASTR	ASTRAGALUS SPP.	.000	.10	.10	.037
OPEN	OPUNTIA ENGELMANNII	.300	.00	.00	.010
SPCR	SPOROBOLUS CRYPTANDRUS	.025	.00	.00	.001
	TOTALS	31.375	25.30		3.000
	DIVERSITY		.95		

---NOTE---

Summary is for each transect by vegetation type.



ENT	PASTURE	TRANSECT	VEG TYPE	LITTER	ROCK	BARE COMPUTED	BARE OBSERVED	COVER	DENSITY	IMP VALUE	DIVERSITY	DATE	HAB
		1		17.000	17.050	38.875	40.900	27.075	13.20	3.000	1.56	08/30/89	
		2		37.225	21.325	17.650	18.600	23.800	15.00	3.000	1.62	08/30/89	
		3		19.000	14.075	44.800	45.800	22.125	17.60	3.000	1.44	08/30/89	
		4		20.100	13.650	45.900	46.825	20.350	19.60	3.000	1.57	08/30/89	
		5		28.800	62.800	-24.225	.825	32.625	16.50	3.000	1.34	08/29/89	
		6		36.575	50.625	-15.950	.100	28.750	15.50	3.000	1.84	08/29/89	
		7		20.875	5.425	41.325	41.700	32.375	16.90	3.000	1.32	08/29/89	
		8		14.250	17.200	32.200	32.800	36.350	20.50	3.000	1.46	08/29/89	
		9		20.825	31.200	16.600	23.375	31.375	25.30	3.000	.95	08/29/89	

HAB	PASTURE	ALLOT	VEG TYPE	LITTER	ROCK	BARE COMPUTED	BARE OBSERVED	COVER	DENSITY	IMP VALUE	DIVERSITY	DATE
				17.000	17.050	38.875	40.900	27.075	13.20	3.000	1.56	08/30/89
				37.225	21.325	17.650	18.600	23.800	15.00	3.000	1.62	08/30/89
				19.000	14.075	44.800	45.800	22.125	17.60	3.000	1.44	08/30/89
				20.100	13.650	45.900	46.825	20.350	19.60	3.000	1.57	08/30/89
				28.800	62.800	-24.225	.825	32.625	16.50	3.000	1.34	08/29/89
				36.575	50.625	-15.950	.100	28.750	15.50	3.000	1.84	08/29/89
				20.875	5.425	41.325	41.700	32.375	16.90	3.000	1.32	08/29/89
				14.250	17.200	32.200	32.800	36.350	20.50	3.000	1.46	08/29/89
				20.825	31.200	16.600	23.375	31.375	25.30	3.000	.95	08/29/89

STURE	ALLOT	TRAN	VEG TYPE	LITTER	ROCK	BARE COMPUTED	BARE OBSERVED	COVER	DENSITY	IMP VALUE	DIVERSITY	DATE
		1		17.000	17.050	38.875	40.900	27.075	13.20	3.000	1.56	08/30/89
		2		37.225	21.325	17.650	18.600	23.800	15.00	3.000	1.62	08/30/89
		3		19.000	14.075	44.800	45.800	22.125	17.60	3.000	1.44	08/30/89
		4		20.100	13.650	45.900	46.825	20.350	19.60	3.000	1.57	08/30/89
		5		28.800	62.800	-24.225	.825	32.625	16.50	3.000	1.34	08/29/89
		6		36.575	50.625	-15.950	.100	28.750	15.50	3.000	1.84	08/29/89
		7		20.875	5.425	41.325	41.700	32.375	16.90	3.000	1.32	08/29/89
		8		14.250	17.200	32.200	32.800	36.350	20.50	3.000	1.46	08/29/89
		9		20.825	31.200	16.600	23.375	31.375	25.30	3.000	.95	08/29/89

E	ALLOT	TRAN	HAB	VEG TYPE	LITTER	ROCK	BARE COMPUTED	BARE OBSERVED	COVER	DENSITY	IMP VALUE	DIVERSITY	DATE
		1		17.000	17.050	38.875	40.900	27.075	13.20	3.000	1.56	08/30/89	
		2		37.225	21.325	17.650	18.600	23.800	15.00	3.000	1.62	08/30/89	
		3		19.000	14.075	44.800	45.800	22.125	17.60	3.000	1.44	08/30/89	
		4		20.100	13.650	45.900	46.825	20.350	19.60	3.000	1.57	08/30/89	
		5		28.800	62.800	-24.225	.825	32.625	16.50	3.000	1.34	08/29/89	
		6		36.575	50.625	-15.950	.100	28.750	15.50	3.000	1.84	08/29/89	

7	20.075	17.225	32.200	32.800	36.350	20.50	3.000	1.46	08/29/89
8	14.250	17.200	32.200	32.800	36.350	20.50	3.000	1.46	08/29/89
9	20.825	31.200	16.600	23.375	31.375	25.30	3.000	.95	08/29/89

ALLOT	TRAN	HAB	PASTURE	VEG TYPE	LITTER	ROCK	BARE COMPUTED	BARE OBSERVED	COVER	DENSITY	IMP VALUE	DIVERSITY	DATE
	1				17.000	17.050	38.875	40.900	27.075	13.20	3.000	1.56	08/30/89
	2				37.225	21.325	17.650	18.600	23.800	15.00	3.000	1.62	08/30/89
	3				19.000	14.075	44.800	45.800	22.125	17.60	3.000	1.44	08/30/89
	4				20.100	13.650	45.900	46.825	20.350	19.60	3.000	1.57	08/30/89
	5				28.800	62.800	-24.225	.825	32.625	16.50	3.000	1.34	08/29/89
	6				36.575	50.625	-15.950	.100	28.750	15.50	3.000	1.84	08/29/89
	7				20.875	5.425	41.325	41.700	32.375	16.90	3.000	1.32	08/29/89
	8				14.250	17.200	32.200	32.800	36.350	20.50	3.000	1.46	08/29/89
	9				20.825	31.200	16.600	23.375	31.375	25.30	3.000	.95	08/29/89

p - Program terminated.

COSAM



CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT	01	BERN WS	TRANSECT NO.	1	LITTER	ROCK	IMPORTANCE	BARE	84.650
PASTURE	1		1				VALUE		
VEGETATION TYPE	1		PLANT COVER	15.350					
SPECIES IDENTIFICATION									
SPECIES		SCIENTIFIC NAME	COVER	DENSITY	FREQUENCY				
SPCR		SPOROBOLUS CRYPTANDRUS	2.500	7.90	1.00		.713		
MUTO		MUHLENBERGIA TORREYI	2.625	4.30	.80		.527		
GUSA		GUTIERREZIA SAROTHRAE	4.525	1.50	.70		.513		
HILJA		HILARIA JAMESII	2.800	4.40	.60		.498		
ROER		BOERHAAVIA	2.200	2.80	.40		.348		
SIHY		SITANION HYSTRIX	.700	2.60	.70		.309		
MUP0		<i>Muhlenbergia porteri</i>	0.000	.50	.20		.065		
2673		<i>Sphaeralcea</i>	0.000	.10	.10		.026		
TOTALS			15.350	24.10			2.999		
DIVERSITY				1.75					

-----NOTE-----  
SUMMARY IS FOR EACH TRANSECT IN THE PASTURE

*Handwritten notes:*  
 1979  
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CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT 01 BERN WS TRANSECT NO. 2  
 PASTURE 1 PLANT COVER 18.200 LITTER 15.550 ROCK 0.400 BARE 65.850  
 VEGETATION TYPE 1

SPECIES	IDENTIFICATION	COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE
SPGR	SPOROBOLUS CRYPTANDRUS	3.975	12.50	.90	.930
GUSA	GUTIERREZIA SAROTHRAE	8.025	1.50	.80	.724
MUTO	MUHLENBERGIA TORREYI	1.850	5.70	.50	.452
BOER	BOERHAAVIA	1.650	4.60	.30	.344
HILJA	HILARIA JAMESII	2.700	2.10	.40	.339
SIHY	SITANION HYSTRIX	0.000	.80	.30	.115
STEP	<i>Stephanomeria cypria</i>	0.000	.10	.10	.032
2673	<i>Spodiopogon soro</i>	0.000	.10	.10	.032
ARLO	<i>Arundo donax</i>	0.000	.10	.10	.032

TOTALS 18.200 27.50 3.000  
 DIVERSITY 1.50

NOTE: IS FOR EACH TRANSECT IN THE PASTURE SUMMARY

CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT	01	BERN WS	TRANSECT NO.	3	LITTER	19.725	ROCK	0.000	BARE	64.075
PASTURE	1		PLANT COVER	16.200						
VEGETATION TYPE	1									
SPECIES IDENTIFICATION										
SPECIES	SCIENTIFIC NAME	COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE					
HIJA	HILARIA JAMESII	4.850	21.80	.90	1.199					
GUSA	GUTIERREZIA SAROTHRAE	7.200	1.00	.60	.637					
SPCR	SPOROBOLUS CRYPTANDRUS	1.700	6.60	1.00	.574					
MUTO	MUHLENBERGIA TORREYI	2.000	2.70	.50	.340					
SIHY	SITANION HYSTRIX	.025	.60	.30	.101					
ARLO	<i>Quilts. longica</i>	.325	.30	.20	.083					
MUP0	<i>Muhlenbergia porteri</i>	0.000	.10	.10	.030					
2673	<i>Spheeralea</i>	0.000	.10	.10	.030					
BOER	<i>Boerhaavia</i>	.100	0.00	0.00	.006					
TOTALS		16.200	33.20		3.000					
DIVERSITY			1.06							

---NOTE---  
SUMMARY IS FOR EACH TRANSECT IN THE PASTURE

CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT	01	BERN WS	TRANSECT NO.	4	LITTER	6.575	ROCK	IMPORTANCE	.100	BARE	83.475
PASTURE	VEGETATION	TYPE	1	2	PLANT COVER	9.850	DENSITY	FREQUENCY	VALU		
SPECIES	IDENTIFICATION	SCIENTIFIC NAME	COVER	DENSITY	FREQUENCY	IMPORTANCE					
SPCR		SPOROBOLUS CRYPTANDRUS	6.025	42.10	1.00	1.736					
HIIJA		HILARIA JAMESII	1.975	7.20	.70	.563					
MUTO		MUHLENBERGIA TORREYI	1.050	1.90	.40	.272					
BOER		<del>BOERHAAVIA</del> <i>Bouteloua</i> <del>torreyi</del>	.500	.40	.10	.091					
2673		<i>Sparganium</i>	0.000	.20	.20	.068					
HASP		HAPLOPAPPUS SPINULOSUS	0.000	.20	.20	.068					
OPEN		<i>Opuntia engelmannii</i>	.300	.10	.10	.065					
ATCA		ATRIPLEX CANESCENS	0.000	.10	.10	.034					
SIHY		SITANION HYSTRIX	0.000	.10	.10	.034					
BOGR		BOUTELOUA GRACILLIS	0.000	.10	.10	.034					
ARLO		<i>Quercus laevis</i>	0.000	.10	.10	.034					
TOTALS			9.850	52.50		2.999					
DIVERSITY				.71							

-----NOTE-----  
SUMMARY IS FOR EACH TRANSECT IN THE PASTURE

CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT	01	BERN WS	TRANSECT NO.	5	LITTER	8.100	ROCK	25.700	BARE	36.375
PASTURE	1		PLANT COVER	29.825						
VEGETATION TYPE	3									
SPECIES IDENTIFICATION	SCIENTIFIC NAME	COVER	DENSITY	FREQUENCY	IMPORTANCE VALUE					
BOGR	BOUTELLOUA GRACILIS	7.150	14.40	.90	.831					
BOER	BOERHAAVIA	2.125	6.70	.50	.361					
JUMO	JUNIPERUS MONOSPERMA	8.700	0.00	0.00	.292					
2671	<i>Cottigobius</i>	4.800	.40	.20	.208					
STNE	STIPA NEOMEXICANA	2.400	1.40	.40	.193					
EUPH	EUPHORBIA	.925	1.50	.60	.181					
BOCU	BOUTELLOUA GRACILIS	1.200	1.70	.20	.127					
BOHI	<i>B. hiavata</i>	0.000	2.00	.30	.113					
ARLO	<i>Quintia longifolia</i>	0.000	.60	.50	.106					
GUSA	GUTIERREZIA SAROTHRAE	0.000	.60	.40	.088					
HVAC	HYMENOXYLIS ACAULIS	.500	.90	.20	.079					
SIHY	SITANION HYSTRIX	.100	.50	.30	.071					
HIJA	HILARIA JAMESII	.925	.20	.10	.055					
2667	<i>Hymenopappus</i>	0.000	.60	.20	.053					
ERIN	<i>Sisyrinchium intermedium</i>	0.000	.20	.20	.041					
MUTO	MUHLENBERGIA TORREYI	0.000	.60	.10	.036					
HASP	HAPLOPAPPUS SPINULOSUS	.400	.10	.10	.034					
2668	<i>Psidium</i>	0.000	.30	.10	.027					
LYPH	<i>Lycium pallidum</i>	0.000	.20	.10	.024					
ERCO	ERIGERON CONCINNUS	0.000	.10	.10	.021					
2669	<i>Cottigobius</i>	0.000	.10	.10	.021					
YUGL	YUCCA GLAUCA	0.000	.10	.10	.021					
SPCR	SPOROBOLUS CRYPTANDRUS	.500	0.00	.10	.021					
ALLI	ALLIUM CERNUUM	.100	0.00	0.00	.017					
TOTALS		29.825	33.20		3.003					
DIVERSITY			1.99							

---NOTE---  
SUMMARY IS FOR EACH TRANSECT IN THE PASTURE



CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT	1	BERN WS	TRANSECT NO.	6	LITTER	7.100	ROCK	26.800	BARE	44.150
PASTURE	1									
VEGETATION TYPE	3		PLANT COVER	21.950						
SPECIES	IDENTIFICATION									
	SCIENTIFIC NAME									
BOHI										
JUMO	JUNIPERUS MONOSPERMA									
BOER	<i>Boerhaavia</i> <i>Boerhaavia</i> <i>boerhaavia</i>									
BOGR	BOUPELLOUA GRACILIS									
SIHY	STANION HYSTRIX									
2668	<i>Practenon</i>									
HASP	HAPLOPAPPUS SPINULOSUS									
EUPH	EUPHORBIA									
LEER	<i>Leucobasis</i> <i>nicotiana</i>									
BOCU	BOUPELLOUA GRACILIS									
ARLO	<i>Quercus</i> <i>torquata</i>									
GUSA	GUTIERREZIA SAROTHRAE									
OPEN	<i>Opuntia</i> <i>engelmannii</i>									
LERE	<i>Leptocarpus</i> <i>vestitus</i>									
2666	<i>Leptocarpus</i>									
STNE	STIPA NEOMEXICANA									
GUTU	<i>Quercus</i> <i>torquata</i>									
ALLI	ALLIUM CERNUUM									
SELO	SENECIO LONGILOBUS									
ERIN	<i>Erigeron</i> <i>internalis</i>									
HYAC	HYMENOXYS ACAULIS									
STEP	<i>Stipa</i> <i>torquata</i>									
SPCR	SPOROBOLUS CRYPTANDRUS									
	TOTALS	21.950	50.70	2.13				2.997		
	DIVERSITY									

NOTE: SUMMARY IS FOR EACH TRANSECT IN THE PASTURE

CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT	01	BERN WS	TRANSECT NO.	7	LITTER	13.250	ROCK	IMPORTANCE	0.625	BARE	62.400
PASTURE	1										
VEGETATION	4		23.725								
SPECIES	IDENTIFICATION										
	SCIENTIFIC NAME										
BOGR	<i>HOUTELOUA GRACILLIS</i>										
GUSA	<i>GUTIERREZIA SAROTHRAE</i>										
MUTO	<i>MUHLENBERGIA TORREYI</i>										
HASP	<i>HAPLOPAPPUS SPINULOSUS</i>										
SPCR	<i>SPOROBOLUS CRYPTANDRUS</i>										
HJJA	<i>HILARIA JAMESII</i>										
BOER	<i>BOERHAVIA <i>Boutoua</i> <i>siropoda</i></i>										
SIHY	<i>SITANION HYSTRIX</i>										
ALLI	<i>ALLIUM CERNUUM.</i>										
ARLO	<i><i>Arctide</i> <i>Boysia</i></i>										
ATCA	<i>ATRIPLEX CANESCENS</i>										
NEOM	<i><i>Nammillaria</i></i>										
CYMO	<i><i>Cynoptera</i></i>										
TOTALS	23.725										
DIVERSITY	40.40										
	1.96										
	COVER	DENSITY	FREQUENCY	IMPORTANCE	VALUE						
	8.925	15.30	.90	.913							
	6.100	2.00	.70	.429							
	4.000	5.30	.70	.423							
	1.725	3.60	.60	.267							
	.425	3.50	.80	.245							
	1.175	3.70	.20	.176							
	.725	3.60	.30	.172							
	.350	1.90	.50	.150							
	0.000	.40	.40	.080							
	.100	.70	.20	.057							
	.200	.20	.20	.048							
	0.000	.10	.10	.020							
	0.000	.10	.10	.020							

---NOTE---  
SUMMARY IS FOR EACH TRANSECT IN THE PASTURE

ARLIE PASE 1979 BERN WS DATA

LOTMENT 01 BERN WS TRANSECT NO. 8  
 SIURE 1 PLANT COVER 21.075 LITTER 9.250 ROCK .700 BARE 68.975  
 GETATION TYPE 5

SPECIES	IDENTIFICATION	SCIENTIFIC NAME	COVER	DENSITY	FREQUENCY	IMPORTANCE
BOERHAAVIA	BOERHAAVIA	BOERHAAVIA GRACILIS	3.400	23.80	1.00	.759
BOERHAAVIA	BOERHAAVIA	<i>BOERHAAVIA B. strigosa</i>	4.000	10.90	.80	.523
BOERHAAVIA	BOERHAAVIA	<i>BOERHAAVIA</i>	6.725	.90	.80	.475
MUHLENBERGIA	MUHLENBERGIA	MUHLENBERGIA TORREYI	1.575	10.00	.90	.410
GUTIERREZIA	GUTIERREZIA	GUTIERREZIA SAROTIHRAE	3.825	2.50	.60	.331
HILARIA	HILARIA	HILARIA JAMESII	1.450	6.00	.50	.263
PHALARIS	PHALARIS	<i>Phalaris</i>	0.000	1.10	.30	.072
PHALARIS	PHALARIS	<i>Phalaris longicaulis</i>	0.000	.30	.20	.040
STEPHANOMERIA	STEPHANOMERIA	<i>Stephanomeria strigosa</i>	0.000	.20	.20	.039
SPOROBOLUS	SPOROBOLUS	SPOROBOLUS CRYPTANDRUS	.100	.20	.10	.026
ASCLEPIAS	ASCLEPIAS	ASCLEPIAS	0.000	.30	.10	.023
MELAMPYRUM	MELAMPYRUM	<i>Melampyrum leucanthemum</i>	0.000	.10	.10	.019
SENECIO	SENECIO	SENECIO LONGILOBUS	0.000	.10	.10	.019
TOTALS			21.075	56.40		2.999
DIVERSITY				1.63		

NOTE---  
 SUMMARY IS FOR EACH TRANSECT IN THE PASTURE

CHARLIE PASE 1979 BERN WS DATA

ALLOTMENT	01	BERN WS	TRANSECT NO.	9	LITTS	ROCK	IMPORTANCE	VALUE	.900	BARE	56.900
PASTURE	1		PLANT COVER	28.825							
VEGETATION	6										
SPECIES IDENTIFICATION											
SPECIES		SCIENTIFIC NAME			COVER FREQUENCY						
BOER		<i>BOERHAAVIA</i>	<i>Boutoua</i>		8.800	1.00		.857			
BOGR		<i>HOUTELOUA</i>	<i>GRACILIS</i>		6.850	.80		.770			
2671		<i>Boerhaavia</i>			6.300	.70		.403			
MUTO		<i>MUHLENBERGIA</i>	<i>TORREYI</i>		1.025	.60		.253			
HJJA		<i>HILARIA</i>	<i>JAMESII</i>		1.600	.30		.193			
GUSA		<i>GUTIERREZIA</i>	<i>SAROTHRAE</i>		1.050	.40		.130			
SPCR		<i>SPOROBOLUS</i>	<i>CRYPTANDRUS</i>		.200	.40		.115			
YUGL		<i>YUCCA</i>	<i>GLAUCA</i>		1.700	.20		.105			
2673		<i>Yucca</i>			.200	.20		.062			
JUMO		<i>JUNIPERUS</i>	<i>MONOSPERMA</i>		1.000	0.00		.035			
HYME1		<i>HYMENOXYS</i>			0.000	.10		.028			
STEP		<i>Stephanomeria</i>	<i>exigua</i>		.100	.10		.026			
SELO		<i>SENECIO</i>	<i>LONGILOBUS</i>		0.000	.10		.023			
TOTALS					28.825			3.000			
DIVERSITY											

---NOTE---  
SUMMARY IS FOR EACH TRANSECT IN THE PASTURE

1	ABRO	ABRONIA
2	AGCR	AGROPYRON CRISTATUM
3	AGIN	AGROPYRON INTERMEDIUM
4	AGSM	AGROPYRON SMITHII
5	AGRT	AGROPYRON TRACHYCAULUM
6	AGTR	AGROPYRON SUBSECUNDUM *
7	ALLI	ALLIUM CERNUUM
8	AMBR	AMBROSIA
9	ARAB	ARABIS
10	ARIS1	ARISTIDA
11	ARFEL	ARISTIDA FENDLERIANA
12	ARFE	ARISTIDA FENDLERIANA
13	ARLO1	ARISTIDA LONGISETA
14	ARBI	ARTEMISIA BIGELOVII
15	ARDR	ARTEMISIA DRACUNCULOIDES
16	ARFRI	ARTEMISIA FRIGIDA
17	ARNO	ARTEMISIA NOVA
18	ARTR	ARTEMISIA TRIDENTATA
19	ASCL	ASCLEPIAS
20	ASTE	ASTER
21	ASCO	ASTER COMMUTATUS
22	ASLE2	ASTER LEUCELENE
23	ASTR	ASTRAGALUS
24	2472	ASTRAGALUS CERAMICUS
25	2602	ASTRAGALUS FLAVUS
26	ASWO	ASTRAGALUS WOOTONI
27	ATCA	ATRIplex CANESCENS
28	ATCO	ATRIplex CONFERTIFOLIA
29	ATOB	ATRIplex OBOVATA
30	BOER	BOERHAAVIA
31	BOER1	BOUTELOUA ERIPODA
32	BOCU	BOUTELOUA GRACILIS
33	BOGR	BOUTELOUA GRACILIS
34	CARD	CARDUUS
35	2613	CASTILLEJA LINEARIFOLIA
36	CELA	CERATOIDES LANATA
37	CEMO	CERCOCARPUS MONTANUS
38	SOLA	CHAMAESARACHA CORONOPIS
39	2462	CHAMAESARACHA CORONOPIS
40	CHRY2	CHRYSOPSIS FOLIOSA
41	CHFO	CHRYSOPSIS FOLIOSA
42	CHDE	CHRYSOTHAMNUS DEPRESSUS
43	2606	CHRYSOTHAMNUS GREENII
44	CHNA	CHRYSOTHAMNUS NAUSEOSUS
45	CHUI	*
46	CHVI	CHRYSOTHAMNUS VISCIDIFLORUS
47	CHVI3	CHRYSOTHAMNUS VISCIDIFLOUUS
48	CLLU	CLEOME LUTEA
49	COAR1	CONVOLVULUS ARVENSIS
50	2443	CRYPTANTHA JAMESII
51	2583	CRYPTANTHA JAMESII
52	CYFE	CYMOPTERUS FEDLERI *
53	CYFE1	CYMOPTERUS FENDLERI
54	DIWI	DITHYREA WISLIZENII
55	FERR	ECHINOCEREUS
56	EPTR	EPHEDRA TRIFURCA
57	ERIG	ERIGERON
58	ERCO2	ERIGERON CONCINNUS
59	ERCO	ERIGERON CONCINNUS
60	ERFL1	ERIGERON FLAGELLARIS
61	ERIO1	ERIOGONUM
62	2604	ERIOGONUM MICROTHECUM
63	2595	ERIOGONUM NUDICAULE

64	EUPH	EUPHORBIA
65	GACO	GAURA COCCINEA
66	GIGI	GILIA MULTIFLOKA
67	2605	GILIA MULTIFLOKA
68	GRAP	GRINDELIA APANACTIS
69	GRSQ	GRINDELIA APANACTIS
70	GRAR	GRINDELIA ARIZONICA
71	GUSA	GUTIERREZIA SAROTHRAE
72	HACU	HAPLOPAPPUS CUNEATUS
73	HASP	HAPLOPAPPUS SPINULOSUS
74	HIJA	HILARIA JAMESII
75	HYLU	HYMENOPAPPUS LUGENS
76	HYME1	HYMENOXYIS
77	HYAC	HYMENOXYIS ACAULIS
78	HYRI	HYMENOXYIS RICHARDSONII
79	JUOS	JUNIPERUS OSTEOSPERMA
80	JUMO	JUNIPERUS MONOSPERMA
81	KOCR	KOELERIA CRISTATA
82	LATH	LATHYRUS LEUCANTHUS
83	2532	LATHYRUS LEACANTHUS
84	2582	LEPIDIDIUM MONTANUM VAR ALYSSOID
85	LEPU	LEPTODACTYLON PUNGENS
86	LESQ	LESQUERELLA
87	2445	LESQUERELLA RECTIPES
88	2603	LEUCELENE ERICOIDES
89	LINE	LINUM NEOMEXICANUM
90	9999	LITTER
91	LYPA1	LYCIUM PALLIDUM
92	LYPA	LYCIUM PALLIDUM
93	LYGO	LYGODESMIA
94	ASMA	MACHAERANTHERA
95	ASTA	MACHAERANTHERA TANACETIFOLIA
96	MAMM	MAMMILLARIA VIVPARA
97	MESA	MEDICAGO SATIVA
98	MEAL	MELILOTUS ALBA
99	MENT1	MENTZELIA
100	MIRA	MIRABILIS
101	2620	MIRABILIS LINEARIS
102	OXLI	MIRABILIS LINEARIS
103	MIMU	MIRABILIS MULTIFLORA
104	MUHL	MUHLENBERGIA
105	MUAR3	MUHLENBERGIA AKENACEA
106	MUPU	MUHLENBERGIA PUNGENS
107	MURE	MUHLENBERGIA REPENS
108	MUTO	MUHLENBERGIA TURREYI
109	NAMA	NAMA
110	OENO	OEOENOTHERA
111	OPCL	OPUNTIA CLAVATA
112	OPPO	OPUNTIA POLYACANTHA
113	OPSP	OPUNTIA SPINOSIOR
114	ORLU	OROBANCHE LUDOVICIANA
115	ORHY	ORYZOPSIS HYMENOIDES
116	PAOB	PANICUM OBTUSUM
117	PENS	PENSTEMON
118	PEPA	PENSTEMON
119	PHLO	PHLOX LONGIFOLIA
120	2345	PHLOX LONGIFOLIA
121	PIED	PINUS EDULIS
122	POFE	POA FENDLERIANA
123	POLY2	POLYGALA LONGA
124	POLO	POLYGALA LONGA
125	POTE	POTENTILLA
126	PSIL	PSILOSTROPHE TAGETINA
127	PSTA	PSILOSTROPHE TAGETINA
128	8888	ROCK
129	2620	SANGUISORBA MINOR

131	SCB	SCLEROPOGON BREVIFOLIUS
132	SCBR	SENECIO LONGILOBUS
133	SELO	SENECIO NEOMEXICANUS
134	SENE	SITANION HYSTRIX
135	SIHY	SOLANUM ELEAGNIFOLIUM
136	SOEL	SPHAERALCEA DIGITATA
137	SPDI	SPHAERALCEA INCANA
138	SPCO1	SPHAERALCEA INCANA
139	2618	SPOROBOLUS AIROIDES
140	SPAI	SPOROBOLUS CONTRACTUS
141	SPCO	SPOROBOLUS ASPER
142	SPAS	SPOROBOLUS CRYPTANDRUS
143	SPCR	SPOROBOLUS FLEXUOSUS
144	SPFL	SPOROBOLUS NEALLEYI *
145	SPNE	SPOROBOLUS NEALLEYI
146	SPNE1	STIPA
147	STIP	STIPA COLYMBIANA *
148	STCO	STIPA COMATA
149	STCO1	STIPA NEOMEXICANA
150	STNE	STIPA ROBUSTA
151	STRO	SUAEDA INTERMEDIA
152	SUAE	ABRONIA BIGELOVII
153	TALI	THELESERMA MEGAPOTAMICUM
154	THME	TOWNSENDIA STRIGOSA
155	TOWN	TOWNSENDIA STRIGOSA
156	2624	TRADESCANTIA OCCIDENTALIS
157	TRAD	TRADESCANTIA OCCIDENTALIS
158	TROC	TRIFOLIUM LACERUM
159	TRRE	VICIA AMERICANA
160	VIAM	YUCCA GLAUCA
161	YUGL	
162	2601	
163	2607	
164	MUPO	
165	2673	
166	ARLO	
167	STEP	
168	OPEN	
169	ERIN	
170	2668	
171	2667	
172	2669	
173	LYPH	
174	2671	
175	BOHI	
176	LERE	
177	2666	
178	LEER	
179	QUTU	
180	CYMO	
181	NEOM	
182	ILMU	
183	MELE	

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08.43.12.TECA,T100,PR100. CHARLES PASE COSAM DA
08.43.12.TA FOR 1979
08.43.12.UCCR, AW, 0.459KCDS.
08.43.13.USER,SBSVQ72,.
08.43.13.FTN(R=2)
08.43.14. .625 CP SECONDS COMPILATION TIME
08.43.14.FILE(TAPE1,RT=Z,BT=C,FL=100)
08.43.14.FILE(TAPE2,RT=Z, BT=C,FL=100)
08.43.15.REWIND,TAPE1,TAPE2.
08.43.15.LGO.
08.43.18. END COSAM1
08.43.18. 022300 MAXIMUM EXECUTION FL.
08.43.18. 1.347 CP SECONDS EXECUTION TIME.
08.43.18.SORTMRG.
08.43.20.***KEY EXTRACTION USED
08.43.22. ** INSERTIONS DURING INPUT *****0
08.43.22. ** DELETIONS DURING INPUT *****0
08.43.22. ** TOTAL RECORDS SORTED *****141
08.43.22. ** INSERTIONS DURING OUTPUT *****0
08.43.22. ** DELETIONS DURING OUTPUT *****0
08.43.22. ** TOTAL RECORDS OUTPUT *****141
08.43.22. ** MERGE ORDER USED *****12
08.43.22. **END SORT RUN
08.43.22.REWIND,TAPE2.
08.43.22.FTN(R=2,B=ML)
08.43.28. 3.265 CP SECONDS COMPILATION TIME
08.43.28.LOAD,ML.
08.43.28.EXECUTE.
08.43.33.***KEY EXTRACTION USED
08.43.33. ** INSERTIONS DURING INPUT *****0
08.43.33. ** DELETIONS DURING INPUT *****0
08.43.33. ** TOTAL RECORDS SORTED *****10
08.43.33. ** INSERTIONS DURING OUTPUT *****0
08.43.33. ** DELETIONS DURING OUTPUT *****0
08.43.33. ** TOTAL RECORDS OUTPUT *****10
08.43.33. ** MERGE ORDER USED *****11
08.43.33. **END SORT RUN
08.43.34.***KEY EXTRACTION USED
08.43.34. ** INSERTIONS DURING INPUT *****0
08.43.34. ** DELETIONS DURING INPUT *****0
08.43.34. ** TOTAL RECORDS SORTED *****11
08.43.34. ** INSERTIONS DURING OUTPUT *****0
08.43.35. ** DELETIONS DURING OUTPUT *****0
08.43.35. ** TOTAL RECORDS OUTPUT *****11
08.43.35. ** MERGE ORDER USED *****11
08.43.35. **END SORT RUN
08.43.36.***KEY EXTRACTION USED
08.43.36. ** INSERTIONS DURING INPUT *****0
08.43.36. ** DELETIONS DURING INPUT *****0
08.43.36. ** TOTAL RECORDS SORTED *****11
08.43.36. ** INSERTIONS DURING OUTPUT *****0
08.43.36. ** DELETIONS DURING OUTPUT *****0
08.43.36. ** TOTAL RECORDS OUTPUT *****11
08.43.36. ** MERGE ORDER USED *****11
08.43.36. **END SORT RUN
08.43.37.***KEY EXTRACTION USED
08.43.37. ** INSERTIONS DURING INPUT *****0
08.43.37. ** DELETIONS DURING INPUT *****0
08.43.37. ** TOTAL RECORDS SORTED *****13
08.43.37. ** INSERTIONS DURING OUTPUT *****0
08.43.37. ** DELETIONS DURING OUTPUT *****0
08.43.37. ** TOTAL RECORDS OUTPUT *****13

```

13-14-79



```

08.43.37. ** TOTAL RECORDS OUTPUT *****11
08.43.37. ** MERGE ORDER USED
08.43.37. **END SORT RUN
08.43.38. ***KEY EXTRACTION USED
08.43.39. ** INSERTIONS DURING INPUT *****0
08.43.39. ** DELETIONS DURING INPUT *****0
08.43.39. ** TOTAL RECORDS SORTED *****26
08.43.39. ** INSERTIONS DURING OUTPUT *****0
08.43.39. ** DELETIONS DURING OUTPUT *****0
08.43.39. ** TOTAL RECORDS OUTPUT *****26
08.43.39. ** MERGE ORDER USED *****11
08.43.39. **END SORT RUN
08.43.41. ***KEY EXTRACTION USED
08.43.42. ** INSERTIONS DURING INPUT *****0
08.43.42. ** DELETIONS DURING INPUT *****0
08.43.42. ** TOTAL RECORDS SORTED *****25
08.43.42. ** INSERTIONS DURING OUTPUT *****0
08.43.42. ** DELETIONS DURING OUTPUT *****0
08.43.42. ** TOTAL RECORDS OUTPUT *****25
08.43.42. ** MERGE ORDER USED *****11
08.43.42. **END SORT RUN
08.43.44. ***KEY EXTRACTION USED
08.43.44. ** INSERTIONS DURING INPUT *****0
08.43.44. ** DELETIONS DURING INPUT *****0
08.43.44. ** TOTAL RECORDS SORTED *****15
08.43.44. ** INSERTIONS DURING OUTPUT *****0
08.43.44. ** DELETIONS DURING OUTPUT *****0
08.43.44. ** TOTAL RECORDS OUTPUT *****15
08.43.45. ** MERGE ORDER USED *****11
08.43.45. **END SORT RUN
08.43.46. ***KEY EXTRACTION USED
08.43.46. ** INSERTIONS DURING INPUT *****0
08.43.46. ** DELETIONS DURING INPUT *****0
08.43.46. ** TOTAL RECORDS SORTED *****15
08.43.46. ** INSERTIONS DURING OUTPUT *****0
08.43.46. ** DELETIONS DURING OUTPUT *****0
08.43.46. ** TOTAL RECORDS OUTPUT *****15
08.43.46. ** MERGE ORDER USED *****11
08.43.46. **END SORT RUN
08.43.48. ***KEY EXTRACTION USED
08.43.48. ** INSERTIONS DURING INPUT *****0
08.43.48. ** DELETIONS DURING INPUT *****0
08.43.48. ** TOTAL RECORDS SORTED *****15
08.43.48. ** INSERTIONS DURING OUTPUT *****0
08.43.48. ** DELETIONS DURING OUTPUT *****0
08.43.48. ** TOTAL RECORDS OUTPUT *****15
08.43.48. ** MERGE ORDER USED *****11
08.43.48. **END SORT RUN
08.43.49. END COSAM2
08.43.49. 064000 MAXIMUM EXECUTION FL.
08.43.49. 7.762 CP SECONDS EXECUTION TIME.
08.43.49.UEAD, 0.001KUNS.
08.43.49.UEMS, 6.455KUNS.
08.43.49.UECP, 16.586SECS.
08.43.49.AESR, 23.706UNTS.

```

TECABSH 24 PAGES PRINTED.  
 ?>#JOB.SEPARATOR#?

*MAILED*

*79 dat*

Measurement of 5/26/92

Plant ring comparison Egr Bel DIA

Transect #	SPEER	BOER	BOGR	HWA	MUTO
1	6.26	6.92	6.62	2.98 cm	10.95 cm
2	4.63	5.74	—	7.69	8.07
3	5.55	5.64	—	3.52	9.39
4	4.83	5.36	—	2.99	8.15
5	—	3.06	4.49	5.46	5.18
6	—	4.58	5.15	5.46	5.18
7	8.46	6.57	6.62	3.19	7.36
8	—	4.63	7.69	2.31	5.94
9	3.90	3.83	6.59	2.20	4.57

$\Sigma = 33.63$

46.33

$n = 6$

9

6

9

9

$\bar{x} = 5.605$

5.148

$sd = 1.615$

1.249

Susan: I need an analysis by species as follows:

- overall means and SD
- Means + SD for 8 and 9 together; 7, 4, 1, 2, 3 together; 5, 6 together; 1, 2, 3, 4 together
- means of plants on this transect so overall means will have 3 less i.e.  $\div$  by 6 not 9

T.A.  $\Sigma$

ATTACHED

Similar 8, 9  
 " 7, 4, 1, 2, 3  
 " 5, 6 - slopes



```

ubtitle '          FOR TRANSECTS 8 AND 9'.
compute index=0.
f (transect = 8) index=1.
f (transect = 9) index=1.
process if (index=1).
descriptives var = spcr boer bogr hija muto/statistics=1 5.
the raw data or transformation pass is proceeding
  9 cases are written to the compressed active file.

```

---

```

page 6  PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO 6/30/92
        FOR TRANSECTS 8 AND 9

```

```

Number of Valid Observations (Listwise) = 1.00

```

Variable	Mean	Std Dev	N	Label
PDR	3.90	.	1	
QER	4.23	.57	2	
QGR	7.14	.78	2	
IJA	2.26	.08	2	
UTO	5.26	.97	2	

---

```

page 7  PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO 6/30/92
        FOR TRANSECTS 8 AND 9

```

```

This procedure was completed at 11:51:26

```

```

ubtitle '          FOR TRANSECTS 7, 4, 1, 2, 3'.
compute index=0.
f (transect = 7) index=1.
f (transect = 4) index=1.
f (transect = 1) index=1.
f (transect = 2) index=1.
f (transect = 3) index=1.
process if (index=1).
descriptives var = spcr boer bogr hija muto/statistics=1 5.
the raw data or transformation pass is proceeding
  9 cases are written to the compressed active file.

```

---

```

page 8  PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO 6/30/92
        FOR TRANSECTS 7, 4, 1, 2, 3

```

```

Number of Valid Observations (Listwise) = 2.00

```

Variable	Mean	Std Dev	N	Label
PDR	5.95	1.55	5	
QER	6.05	.66	5	
QGR	6.62	.00	2	
IJA	4.07	2.03	5	
UTO	8.74	1.34	5	

---

```

page 9  PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO 6/30/92
        FOR TRANSECTS 7, 4, 1, 2, 3

```

```

This procedure was completed at 11:51:26

```

```

ubtitle          FOR TRANSECTS 5 AND 6'.
compute index=0.
f (transect = 5) index=1.
f (transect = 6) index=1.
process if (index=1).
descriptives var = spcr boer bogr hija muto/statistics=1 5.
The raw data or transformation pass is proceeding
9 cases are written to the compressed active file.

```

Page 10 PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO  
FOR TRANSECTS 5 AND 6

6/30/92

Number of Valid Observations (Listwise) = .00

Variable	Mean	Std Dev	N	Label
SPCR	Variable is missing for every case.			
BOER	3.82	1.07	2	
BOGR	4.82	.47	2	
HIJA	5.46	.00	2	
MUTO	5.18	.00	2	

Page 11 PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO  
FOR TRANSECTS 5 AND 6

6/30/92

This procedure was completed at 11:51:27

```

subtitle          FOR TRANSECTS 1, 2, 3, 4'.
compute index=0.
if (transect = 1) index=1.
if (transect = 2) index=1.
if (transect = 3) index=1.
if (transect = 4) index=1.
process if (index=1).
descriptives var = spcr boer bogr hija muto/statistics=1 5.
The raw data or transformation pass is proceeding
9 cases are written to the compressed active file.

```

Page 12 PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO  
FOR TRANSECTS 1, 2, 3, 4

6/30/92

Number of Valid Observations (Listwise) = 1.00

Variable	Mean	Std Dev	N	Label
SPCR	5.32	.74	4	
BOER	5.92	.69	4	
BOGR	6.62	.	1	
HIJA	4.30	2.28	4	
MUTO	9.09	1.26	4	

Page 13 PLANT SIZE COMPARISON EQV BSL DIA - BERNALILLO  
FOR TRANSECTS 1, 2, 3, 4

6/30/92

This procedure was completed at 11:51:28

bye

1975

	Plants	Rock	Litter	Base Soil
--	--------	------	--------	-----------

1	15	0	44	41
---	----	---	----	----

2	17	2	32	49
---	----	---	----	----

3	21	1	51	27
---	----	---	----	----

4	13	1	42	44
---	----	---	----	----

5	17	62	14	7
---	----	----	----	---

6	12	56	33	9
---	----	----	----	---

7	29	1	15	55
---	----	---	----	----

8	23	5	15	57
---	----	---	----	----

9	31	4	24	41
---	----	---	----	----

$\Sigma$	178	132	260	330
----------	-----	-----	-----	-----

$\bar{m}$	20	15	29	37
-----------	----	----	----	----



Table 1.--Transsect data on the Bernalillo Watershed

Transsect Number	Year									Average
	1	2	3	4	5	6	7	8	9	
Perennial Grasses	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65	55 61 65
Mutuo ring mahly	4 - 2	5 1 1	1 - 1	7 1 1	- 2 1	5 2 1	7 1 6	11 11 7	3 3 5	10 26 17
Pogon blue grama					3 - 19	5 2 1	1 2 8	5 3 12	7 4 9	16 11 6
Bogon black grama					1 1 3	- 9 1	- 2 2	3 1 7	5 4 6	10 10 10
HISA galleta	- 2	3 1	4 1 6	- 1			1 1 2		1 1	3 3 3
SPER sand droseed	5 5 21	2 10 21	1 12 18	7 - 3 13		- 1 -	1 2 9			8 11 8
GOCO side-oats grama					- 1 1	- 2 3				1 1 1
ARIS threesawn						- 2				1 1 1
BOHI hairy grama					5 -	4 -				1 1 1
Other										1 1 1
GRAM All plants	9 5 25	8 11 23	6 13 25	7 4 15	8 4 8	5 9 28	19 10 6	21 10 15	26 18 12	19 33 30
Rock	0 0 1	0 0 3	1 0 1	0 0 0	13 37 49	6 7 12	4 5 1	3 1 1	3 1 1	5 10 5
Litter	6 32 7	25 11 20	3 12 10	5 7 32	3 9 11	8 13 3	19 29 5	12 7 10	13 8 14	19 19 19
Bare soil	85 63 67	60 78 69	71 81 67	69 86 64	81 78 66	52 18 8	36 4 7	80 64 63	63 72 74	58 58 58

MSS from  
Bernalillo  
Watershed

1 2 3 4 5 6 7 8 9

1911  
1923  
1932  
1933

Table 1.--Transect data on the Bernalillo Watershed

Transect number	Year	Perennial grasses	ring mulch	blue grama	black grama	galleta	sand dropseed	side-oats grama	threawn	hairy grama	All plants	Rock	Litter	Bare soil
	55 61 65		4				5				9	0	6	85
	55 61 65		5			1	2				8	0	14	78
	55 61 65		1			4	1				6	0	10	84
	55 61 65		7								7	0	7	86
	55 61 65	hits	-	3	1					-	4	13	17	66
	55 61 65		7	5							5	31	8	56
	55 61 65		7	1		1	1				10	1	9	80
	55 61 65		12	5	3						20	1	7	72
	55 61 65		3	4	4						12	1	4	83
Average	55 61 65										10.26	9	14.1	54.8



Parker Transect Summer 1983

1983 MA

# SEITZ ENDER BERNATTE WATERSHED

1983

Line	Hija	Boyr	Boest	Boca	Mto	Spar	Arlo	Opel	Asci	Gussa	Mass	Rock	Litter	Soil	Iman	Oppo	Bahi	Stne	Arfa
1	3	18	2		4	2				2		2	2	5					
2	1	10	1		6	1				1		1	3	4					
3	1	13	1		4	1				1		2	2	4					
4	1	10	1		6	1				1		1	2	4					
5	1	13	1		6	1				1		1	2	4					
6	1	13	1		6	1				1		1	2	4					
7	1	13	1		6	1				1		1	2	4					
8	1	13	1		6	1				1		1	2	4					
9	1	13	1		6	1				1		1	2	4					

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRMN1	TRMN2	TRMN3	TRMN4	TRMN5	TRMN6	TRMN7	TRMN8	TRMN9	MEAN
1955 BUDR	0	0	0	0	1	0	0	3	4	
1955 BUDR	0	0	0	0	3	5	1	5	4	
1955 HJH	0	1	4	0	0	0	1	0	1	
1955 MUTO	4	5	1	2	0	0	2	11	3	
1955 SPDR	5	2	1	0	0	0	1	0	0	
ALL PLANTS	9	8	6	7	4	5	10	19	12	9
1955 BRRE SOIL	85	78	84	86	66	54	80	73	89	77
1955 LITTER	5	14	10	7	17	8	9	7	4	9
1955 ROCK	0	0	0	0	13	33	1	1	1	5

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRMN1	TRMN2	TRMN3	TRMN4	TRMN5	TRMN6	TRMN7	TRMN8	TRMN9	MEAN
1961 BUDR	0	0	0	0	0	2	0	0	0	
1961 BUDR	0	0	0	0	1	0	0	1	6	
1961 BUDR	0	0	0	0	0	2	2	3	9	
1961 BUDR	0	0	0	0	5	4	0	0	0	
1961 HJH	0	0	1	0	0	0	1	0	1	
1961 MUTO	0	1	0	1	2	0	1	11	3	
1961 SPDR	5	10	12	3	0	1	2	0	0	
ALL PLANTS	5	11	13	4	8	9	6	15	19	10
1961 BRRE SOIL	63	69	67	64	52	36	64	74	69	62
1961 LITTER	32	20	19	32	3	13	29	10	11	19
1961 ROCK	0	0	1	0	37	42	1	1	1	9

PRAKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1965 BRFE	0	0	0	0	0	3	0	0	0	
1965 BOCU	0	0	0	0	1	3	0	0	0	
1965 BOER	0	0	0	0	3	9	2	6	12	
1965 BOGR	0	0	0	0	19	14	8	13	16	
1965 HIJR	2	1	6	1	0	0	2	0	0	
1965 MOSS	0	0	0	0	0	0	1	0	3	
1965 MUTO	2	1	1	1	1	0	6	7	5	
1965 SPCR	21	21	18	13	0	0	9	0	0	
ALL PLANTS	25	29	25	15	24	29	28	26	36	26
1965 BRRE SOIL	67	71	69	61	18	3	64	58	54	54
1965 LITTER	7	3	5	4	9	3	5	13	8	6
1965 ROCK	1	3	1	0	49	65	3	9	2	14
PRAKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED										
YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1970 BOCU	0	0	0	0	1	1	0	0	0	
1970 BOER	0	0	0	0	3	4	2	5	10	
1970 BOGR	0	0	0	0	7	14	5	7	16	
1970 GUSR	0	0	0	0	1	0	0	0	0	
1970 HIJR	3	0	8	2	0	0	2	0	3	
1970 MOSS	1	0	0	1	0	0	0	0	0	
1970 MUTO	0	1	0	0	1	0	4	6	1	
1970 ORHY	0	0	0	0	1	0	0	0	0	
1970 SPCR	11	15	7	6	0	0	8	0	0	
ALL PLANTS	15	16	15	9	14	19	21	18	30	17
1970 BRRE SOIL	60	71	58	72	8	7	64	55	46	49
1970 LITTER	24	12	27	19	11	19	12	16	14	17
1970 ROCK	1	1	0	0	67	55	3	11	10	16

PARKER 3-STEP TRANSECT DATA ON THE BERNILILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1975 RRIS	1	0	0	0	0	0	3	0	0	0
1975 BOCU	0	0	0	0	1	2	0	0	0	0
1975 BOER	1	1	1	2	3	2	0	10	15	15
1975 BOGR	0	0	0	0	10	8	12	9	15	15
1975 BUSH	0	0	0	0	0	0	1	1	0	0
1975 HIJR	4	0	10	5	2	0	3	1	1	1
1975 MUTO	2	2	1	1	0	0	5	2	0	0
1975 SPGR	2	14	9	5	0	0	5	1	0	0
1975 STCO	0	0	0	0	1	0	0	0	0	0
ALL PLANTS	15	17	21	19	17	12	29	24	31	20
1975 BRRE SOIL	41	49	27	44	7	9	55	57	41	37
1975 LITTER	44	32	51	42	14	28	15	14	24	29
1975 ROCK	0	2	1	1	52	56	1	5	4	15

PARKER 3-STEP TRANSECT DATA ON THE BERNILILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1980 RSTR	0	0	0	0	0	1	0	0	0	0
1980 BOER	4	2	0	0	3	2	0	3	5	5
1980 BOGR	0	0	0	0	9	7	11	9	12	12
1980 BOHI	0	0	0	0	0	8	0	0	0	0
1980 GUPH	0	0	0	0	1	0	0	0	0	0
1980 GUSA	1	1	1	0	0	0	3	0	1	1
1980 HRSP	0	0	0	0	0	0	1	0	0	0
1980 HIJR	2	3	9	6	1	0	0	3	1	1
1980 HWRC	0	0	0	0	1	0	0	0	0	0
1980 HWLU	0	0	0	0	1	0	0	0	0	0
1980 JUMD	0	0	0	0	0	1	0	0	0	0
1980 MUTO	4	2	5	2	0	0	6	4	1	1
1980 OPEN	0	0	0	1	0	1	0	0	0	0
1980 SIHY	1	0	0	0	0	0	1	0	0	0
1980 SPGR	5	2	7	9	0	0	1	0	0	0
1980 STNE	0	0	0	0	1	0	0	0	0	0
ALL PLANTS	17	10	22	18	17	20	29	19	20	18
1980 BRRE SOIL	50	53	43	59	16	10	40	46	38	39
1980 LITTER	33	36	36	23	14	21	36	33	38	30
1980 ROCK	0	1	0	0	53	49	1	2	4	12

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1982 RMLD	0	0	0	0	0	1	0	0	0	0
1982 RSCL	0	0	0	0	1	0	0	0	0	0
1982 BOCU	0	0	0	0	2	1	0	0	0	0
1982 BOER	0	2	0	0	4	5	1	1	5	11
1982 BOGR	0	0	0	0	13	6	8	10	14	14
1982 GUSR	0	1	1	0	1	0	1	1	0	1
1982 H1JR	1	0	2	0	1	0	1	3	1	1
1982 JUMD	0	0	0	0	0	1	0	0	0	0
1982 MOSS	0	0	0	0	0	0	0	0	2	2
1982 MUTO	1	4	4	4	0	0	5	0	0	0
1982 DPCL	0	0	0	1	0	1	0	0	0	0
1982 S1HY	0	0	0	0	0	0	1	0	0	0
1982 SPDR	4	6	3	2	0	0	0	0	0	0
ALL PLANTS	6	13	10	12	21	15	17	19	28	16
1982 BRRE SOIL	69	59	63	76	7	6	53	60	50	49
1982 LITTER	25	25	25	11	11	15	24	15	21	19
1982 ROCK	0	3	2	1	61	64	6	5	1	16

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1983 RAFE	0	0	0	0	0	1	1	0	0	0
1983 BOER	0	2	0	0	1	2	1	8	10	10
1983 BOGR	0	0	0	0	12	8	10	1	13	13
1983 BOHI	0	0	0	0	0	2	0	0	0	0
1983 GUSR	2	1	1	0	1	0	0	2	1	1
1983 H1JR	1	3	6	1	0	0	2	1	1	1
1983 MOSS	0	0	0	0	0	1	1	0	0	0
1983 MUPD	1	0	0	0	0	0	0	0	0	0
1983 MUSA	2	0	0	0	0	0	0	0	0	0
1983 MUTO	4	6	4	4	0	0	10	4	6	6
1983 OPCL	0	0	0	1	0	0	0	0	0	0
1983 SPGR	5	5	6	9	0	0	1	0	1	1
1983 STNE	0	0	0	0	0	1	0	0	0	0
ALL PLANTS	15	17	17	15	14	15	26	16	32	19
1983 BRRE SOIL	54	46	45	60	4	3	36	48	39	37
1983 LITTER	29	36	36	24	29	26	34	34	26	30
1983 ROCK	2	1	2	1	53	56	4	2	3	14

PARKER 3-STEP TRANSECT DATA ON THE BERNILLILO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1984 RNMU	0	0	0	0	0	1	0	0	0	0
1984 BOCU	0	0	0	0	0	1	0	0	0	0
1984 BOER	2	3	0	2	2	1	1	7	8	25
1984 BOGR	0	0	0	0	3	5	12	10	12	15
1984 BQHI	0	0	0	0	1	1	0	0	0	0
1984 GUSA	2	1	1	0	2	1	1	1	1	1
1984 HRSP	0	0	0	0	0	0	0	0	0	0
1984 HIJH	1	2	5	0	0	0	3	0	0	0
1984 MOSS	0	0	0	0	0	0	0	0	2	2
1984 MUPU	1	0	0	0	0	0	0	0	0	0
1984 MUTO	5	6	3	0	0	0	8	5	1	1
1984 DPPU	0	0	0	2	0	0	0	0	0	0
1984 SIHY	0	0	0	0	0	0	1	0	0	0
1984 SPCR	5	5	7	14	0	0	1	0	2	2
1984 STCO	0	0	0	0	1	0	0	0	0	0
ALL PLANTS	16	17	16	21	9	9	28	29	26	18
1984 BARE SOIL	54	45	50	56	11	12	52	45	54	42
1984 LITTER	29	35	34	22	16	21	19	27	19	25
1984 ROCK	1	3	0	1	64	58	1	5	1	15

PARKER 3-STEP TRANSECT DATA ON THE BERNILLILO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1985 RRL0	0	0	0	0	0	0	1	0	0	0
1985 BOCU	0	0	0	0	0	1	0	0	0	0
1985 BOER	3	2	0	2	1	3	1	4	6	2
1985 BOGR	0	0	0	0	6	4	12	13	12	12
1985 BQHI	0	0	0	0	4	5	0	0	0	0
1985 GUSA	1	1	0	0	1	0	4	0	1	1
1985 HRSP	0	0	0	0	0	1	1	0	0	0
1985 HIJH	0	2	6	1	0	0	2	3	1	1
1985 MUTO	3	4	1	4	0	0	4	6	5	2
1985 DPCL	0	0	0	1	0	0	0	0	0	0
1985 SIHY	0	0	0	0	1	1	0	0	0	0
1985 SPCR	4	5	5	10	0	0	0	0	0	0
1985 STCO	0	0	0	0	3	0	0	0	0	0
ALL PLANTS	11	14	12	18	16	15	25	26	25	18
1985 BARE SOIL	59	49	51	54	12	4	50	53	45	42
1985 LITTER	30	36	37	27	12	24	22	18	28	26
1985 ROCK	0	1	0	1	60	57	3	3	2	14

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1986 ARFE	0	0	0	0	0	1	0	0	0	0
1986 BOCU	0	0	0	0	1	1	0	0	0	0
1986 BOER	4	5	0	4	2	0	0	4	5	3
1986 BOGR	0	0	0	0	11	5	17	13	16	10
1986 BOHI	0	0	0	0	4	6	0	0	0	0
1986 GUSA	2	1	0	0	1	0	0	0	1	0
1986 HIJA	0	2	4	1	0	0	2	1	0	0
1986 LEER	0	0	0	0	0	2	0	0	0	0
1986 MUPD	1	0	0	0	0	0	0	0	0	0
1986 MUTO	3	8	2	3	0	0	7	9	4	0
1986 DPDL	0	0	0	1	0	0	0	0	0	0
1986 PHLOX	0	0	0	0	0	0	0	1	0	0
1986 SPCR	2	4	4	13	0	0	1	0	0	0
1986 YUJL	0	0	0	0	0	0	0	0	1	0
ALL PLANTS	12	20	10	22	19	15	27	27	27	20
1986 BRRE SOIL	58	47	52	62	14	11	48	53	47	44
1986 LITTER	30	31	38	16	13	14	25	15	24	23
1986 ROCK	0	2	0	0	54	60	0	5	2	14

PARKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1987 ARFE	0	0	0	0	0	1	0	0	0	0
1987 BOCU	0	0	0	0	0	2	0	0	0	0
1987 BOER	4	10	0	5	1	1	2	9	9	5
1987 BOGR	0	0	0	0	4	8	16	15	13	10
1987 BOHI	0	0	0	0	4	1	0	0	0	0
1987 EUPH	0	0	0	0	0	1	0	0	0	0
1987 GUSA	2	2	0	0	1	0	4	0	1	0
1987 HRSP	0	0	0	0	0	1	1	0	0	0
1987 HIJA	1	1	10	1	0	0	1	2	1	0
1987 HYME	0	0	0	0	1	0	0	0	0	0
1987 MUTO	3	9	2	0	0	0	6	7	11	0
1987 OPOP	0	0	0	0	0	1	0	0	0	0
1987 PEST	0	0	0	0	0	2	0	0	0	0
1987 STHY	0	1	0	0	0	1	1	1	0	0
1987 SPCR	3	6	4	11	0	0	0	0	0	0
1987 STCO	0	0	0	0	1	0	0	0	0	0
ALL PLANTS	13	29	16	18	12	19	31	33	35	23
1987 BRRE SOIL	50	36	50	49	11	6	46	47	32	36
1987 LITTER	37	32	33	31	20	17	21	15	27	26
1987 ROCK	0	3	1	2	57	58	2	5	6	15

PARKER 3-STEP TRANSECT DATA ON THE BERNHILLD WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1988 RRFE	0	0	0	0	0	1	0	0	0	0
1988 RLLO	0	0	0	0	1	0	0	0	0	0
1988 BOCU	0	0	0	0	1	1	0	0	0	0
1988 BOER	6	2	0	5	1	2	1	5	11	11
1988 BOGR	0	0	0	0	3	2	19	16	20	20
1988 BOHI	0	0	0	0	10	4	0	0	0	0
1988 GUSR	1	1	0	0	0	0	2	2	1	1
1988 HRSP	0	0	0	0	1	1	1	0	0	0
1988 HIJR	0	0	0	3	0	0	1	1	0	0
1988 MOSS	6	1	2	0	0	1	0	0	1	1
1988 MUTO	3	8	1	5	0	0	5	9	8	8
1988 OPEN	0	0	0	0	0	1	0	0	0	0
1988 OPPU	0	0	0	1	0	0	0	0	0	0
1988 SIHY	0	2	0	0	0	0	0	2	0	0
1988 SPCR	6	10	8	19	0	0	0	0	1	1
1988 STCO	0	0	0	0	3	1	0	0	0	0
ALL PLANTS	22	24	18	33	20	14	29	35	42	26
1988 BARE SOIL	58	49	57	54	3	3	55	34	38	39
1988 LITTER	20	25	25	11	16	17	14	19	18	18
1988 ROCK	0	2	0	2	61	66	2	12	2	16



PARKER 3-STEP TRANSECT DATA ON THE BERNILLILLO WATERSHED

YEAR	SPECIES	TRAN1	TRAN2	TRAN3	TRAN4	TRAN5	TRAN6	TRAN7	TRAN8	TRAN9	MEAN
1989	AKLO	0	0	0	0	0	0	1	0	0	0
1989	BODU	0	0	0	0	0	1	0	0	0	0
1989	BOER	7	7	3	8	0	1	3	4	10	4
1989	BOGR	0	0	0	0	1	4	21	14	17	14
1989	BOHT	0	0	0	0	7	3	0	0	0	0
1989	ELPH	0	0	0	2	0	0	0	0	0	0
1989	GUSR	1	0	2	0	0	0	1	1	0	0
1989	HRSP	0	0	0	0	0	0	1	0	0	0
1989	HTJR	0	2	4	2	0	0	0	1	0	0
1989	LEER	0	0	0	0	0	2	0	0	0	0
1989	MOSS	0	0	0	0	0	1	0	0	0	0
1989	MULT	5	5	2	1	0	0	2	4	4	4
1989	OPEN	0	0	0	1	0	0	0	0	0	0
1989	PHLOX	0	0	0	0	0	0	0	1	0	0
1989	SIMY	0	1	0	0	0	0	0	1	0	0
1989	SPCR	4	9	6	11	0	0	0	0	0	0
1989	SPFE	0	0	0	1	0	0	0	0	0	0
1989	STCO	0	0	0	0	1	0	0	0	0	0
1989	YUBL	0	0	0	0	0	0	0	0	1	0
	HILL PLANTS	17	24	17	26	9	12	29	26	32	21
1989	BARE SOIL	53	43	52	39	7	1	44	53	29	36
1989	LITTER	28	31	31	33	34	32	22	15	36	28
1989	ROCK	2	2	0	2	40	55	5	6	9	15

PRAKER 3-STEP TRANSECT DATA ON THE BERNALILLO WATERSHED

YEAR SPECIES	TRM1	TRM2	TRM3	TRM4	TRM5	TRM6	TRM7	TRM8	TRM9	MEAN
1990 RRFE	0	0	0	0	0	2	0	0	0	0
1990 RRLD	0	0	0	0	0	0	1	0	0	0
1990 BOBH	0	0	0	6	0	0	0	0	0	0
1990 BODU	0	0	0	0	0	1	0	0	0	0
1990 BOER	9	5	1	4	1	2	2	5	9	5
1990 BOGR	0	0	0	0	0	1	16	8	14	8
1990 BOHI	0	0	0	0	6	6	0	0	0	0
1990 EUPH	0	0	0	1	0	0	0	0	0	0
1990 GUSH	0	2	2	1	0	0	1	2	0	0
1990 HRSP	0	0	0	0	0	1	0	0	0	0
1990 HJJA	1	1	5	4	0	0	1	2	0	0
1990 HYME	0	0	0	0	1	0	0	0	0	0
1990 LEER	0	0	0	0	0	1	0	0	0	0
1990 MOSS	0	0	0	0	0	0	0	0	1	0
1990 MUTO	6	3	3	2	0	0	1	5	4	3
1990 OPEN	0	0	0	1	0	1	0	0	0	0
1990 SPOR	4	8	5	10	0	0	0	0	0	0
1990 YUOL	0	0	0	0	0	0	0	0	1	0
ALL PLANTS	20	19	16	29	8	15	22	22	29	20
1990 BRRE SOIL	40	39	48	42	9	2	41	51	49	35
1990 LITTER	39	41	35	28	19	21	29	22	24	29
1990 ROCK	1	1	1	1	64	62	8	5	4	16

Bernalillo Watershed Study

(1980 data)

ALLI	<i>Allium</i> sp.
ARLO	<i>Aristida longiseta</i>
ASCL	<i>Asclepias</i> sp.
2666	<i>Astragalus</i> sp.
2669	<i>Astragalus</i> sp.
2671	<i>Astragalus</i> sp.
ATCA	<i>Atriplex canescens</i>
BOCU	<i>Bouteloua curtipendula</i>
BOER	<i>Bouteloua eriopoda</i>
BOGR	<i>Bouteloua gracilis</i>
BOHI	<i>Bouteloua hirsuta</i>
CYMO	<i>Cymopterus</i> sp.
ERIN	<i>Eragrostis intermedia</i>
ERCO	<i>Erigeron concinnus</i>
EUPH	<i>Euphorbia</i> sp.
GUSA	<i>Gutierrezia sarothrae</i>
HASP	<i>Haplopappus spinulosus</i>
HIJA	<i>Hilaria jamesii</i>
2667	<i>Hymenopappus</i> sp.
HYAC	<i>Hymenoxys acaulis</i>
JUMO	<i>Juniperus monspersma</i>
LERE	<i>Lesquerella rectipes</i>
LEER	<i>Leucelene ericoides</i>
LYPH	<i>Lycurus phleoides</i>
MELE	<i>Melampodium leucanthum</i>
MUPO	<i>Muhlenbergia porteri</i>

MUTO	<i>Muhlenbergia torreyi</i>
NEOM	<i>Neomamillaria</i> sp.
OPEN	<i>Opuntia engelmannii</i>
2668	<i>Penstemon</i> sp.
QUTU	<i>Quercus turbinella</i>
SELO	<i>Senecio longilobus</i>
SIHY	<i>Sitanion hystrix</i>
2673	<i>Sphaeralcea</i> sp.
SPCR	<i>Sporobolus cryptandrus</i>
STEP	<i>Stephanomeria</i> sp.
STNE	<i>Stipa neomexicana</i>
YUGL	<i>Yucca glauca</i>