

STAND: TRAIL CREEK NO3 **AREAG**

PER ACRE STAND SUMMARY  
ALL SPECIES

	DBH	HEIGHT CLASS											TOTAL	
		20	30	40	50	60	70	80	90	100	110	120		
STEMS	6	0	7	188	88	0	0	0	0	0	0	0	0	283
CUVOL	6	0	14	621	456	0	0	0	0	0	0	0	0	1092
SCRIB	6	0	51	2395	1833	0	0	0	0	0	0	0	0	4278
STEMS	8	0	3	29	38	10	0	0	0	0	0	0	0	80
CUVOL	8	0	19	175	325	121	0	0	0	0	0	0	0	640
SCRIB	8	0	75	709	1344	508	0	0	0	0	0	0	0	2636
STEMS	10	0	0	3	12	4	0	0	0	0	0	0	0	19
CUVOL	10	0	0	26	170	83	0	0	0	0	0	0	0	280
SCRIB	10	0	0	110	717	352	0	0	0	0	0	0	0	1179
STEMS	12	0	0	0	3	5	0	0	0	0	0	0	0	8
CUVOL	12	0	0	0	69	120	0	0	0	0	0	0	0	189
SCRIB	12	0	0	0	295	537	0	0	0	0	0	0	0	832
STEMS	14	0	0	0	0	0	3	0	0	0	0	0	0	3
CUVOL	14	0	0	0	0	0	90	0	0	0	0	0	0	90
SCRIB	14	0	0	0	0	0	426	0	0	0	0	0	0	426
STEMS	16	0	0	0	0	0	1	0	0	0	0	0	0	1
CUVOL	16	0	0	0	0	0	44	0	0	0	0	0	0	44
SCRIB	16	0	0	0	0	0	214	0	0	0	0	0	0	214
<hr/>														
TOTAL														
STEMS	0	0	11	220	141	19	4	0	0	0	0	0	0	394
CUVOL	0	0	33	822	1020	325	134	0	0	0	0	0	0	2334
SCRIB	0	0	126	3214	4188	1397	640	0	0	0	0	0	0	9565

29.18 cord/A.  
~~25.93 cord/A.~~

80 ft<sup>3</sup>/cord

X 3.99 A

116.4 cords

STAND: TRAIL CREEK NO3 AREAG  
PER ACRE SUMMARY

STEMS	BA	DBH	HT	AGE
394	116	7.3	47	100

CRUISE SUMMARY

BAF USED = 10 PTS SMPLD = 7      AVG. # TREES/PT. = 11.6

85 ft<sup>3</sup>/cord 27.46  
 X 4  
 -----  
 159.84  
 (110)  
 / 215    / 0.70

90 ft<sup>3</sup>/cord = 25.93 cord/A

X 3.99 A

103.5 cords

TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: TRAIL CREEK N03 AREA G

COURSE	DEGREE (AZIMUTH)	LENGTH (CHAINS)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	237.00	2.00	-1.052	-1.704	0.000	0.000
2- 3	193.00	1.10	-1.051	-0.262	-1.052	-1.704
3- 4	142.00	0.90	-0.692	0.542	-2.103	-1.966
4- 5	186.00	3.00	-2.928	-0.354	-2.796	-1.424
5- 6	188.00	2.00	-1.943	-0.305	-5.723	-1.778
6- 7	200.00	0.70	-0.645	-0.249	-7.666	-2.083
7- 8	106.00	0.81	-0.208	0.768	-8.311	-2.332
8- 9	162.00	1.20	-1.119	0.355	-8.519	-1.564
9- 10	207.00	1.40	-1.221	-0.654	-9.638	-1.209
10- 11	193.00	2.40	-2.294	-0.572	-10.859	-1.864
11- 12	278.00	1.70	0.268	-1.706	-13.153	-2.436
12- 13	200.00	2.00	-1.842	-0.711	-12.885	-4.142
13- 14	211.00	0.70	-0.587	-0.370	-14.727	-4.853
14- 15	186.00	1.20	-1.171	-0.141	-15.314	-5.223
15- 16	66.00	1.10	0.468	0.990	-16.485	-5.364
16- 17	23.00	1.70	1.597	0.641	-16.017	-4.374
17- 18	115.00	0.80	-0.323	0.714	-14.420	-3.732
18- 19	184.00	1.40	-1.370	-0.116	-14.743	-3.018
19- 20	226.00	0.70	-0.473	-0.513	-16.114	-3.134
20- 21	144.00	0.90	-0.711	0.517	-16.587	-3.647
21- 22	83.00	0.90	0.126	0.881	-17.298	-3.130
22- 23	54.00	1.20	0.728	0.955	-17.172	-2.249
23- 24	36.00	0.60	0.497	0.345	-16.444	-1.294
24- 25	6.00	0.70	0.709	0.064	-15.948	-0.950
25- 26	301.00	1.50	0.801	-1.306	-15.238	-0.886
26- 27	36.00	1.60	1.324	0.919	-14.438	-2.192
27- 28	350.00	1.00	1.003	-0.187	-13.113	-1.273
28- 29	38.00	0.60	0.484	0.361	-12.110	-1.460
29- 30	15.00	1.00	0.985	0.245	-11.626	-1.098
30- 31	8.00	2.50	2.522	0.314	-10.641	-0.853
31- 32	58.00	2.00	1.097	1.669	-8.119	-0.538
32- 33	17.00	1.50	1.462	0.418	-7.022	1.131
33- 34	39.00	1.00	0.796	0.616	-5.559	1.549
34- 35	338.00	1.00	0.946	-0.388	-4.764	2.165
35- 36	3.00	1.70	1.729	0.066	-3.818	1.777
36- 37	287.00	0.70	0.218	-0.679	-2.088	1.844
37- 38	353.00	1.40	1.416	-0.189	-1.871	1.165
38- 39	6.00	0.80	0.811	0.073	-0.455	0.975
39- 1	250.00	1.10	-0.356	-1.048	0.356	1.048
		50.51	-0.943	0.676		

CLOSURE = 1.160 CHAINS

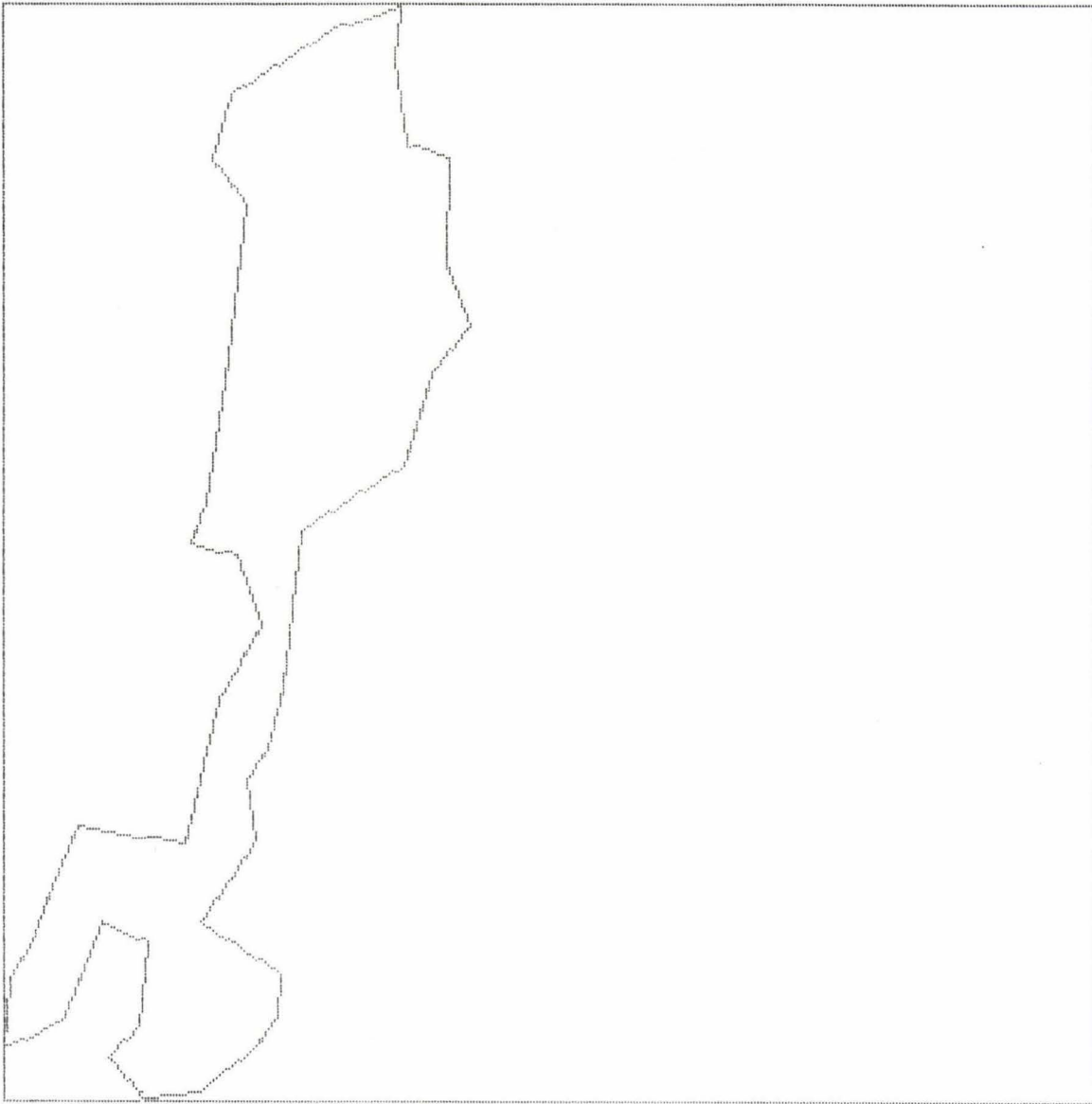
PRECISION = 1 IN 44 ( 2.3% )

CORRECTED AREA = 3.992 ACRES  
39.921 SQUARE CHAINS

UNCORRECTED AREA = 4.660 ACRES  
46.598 SQUARE CHAINS

CORRECTED MAP OUTPUT FOR: TRAIL CREEK N03 AREA G

North



MAP SCALE: 1 : 2327  
1 INCH =

2.94 CHAINS  
193.94 FEET

UNCORRECTED MAP OUTPUT FOR: TRAIL CREEK N03 AREA G

North



MAP SCALE: 1 : 2352  
1 INCH = 2.97 CHAINS  
195.97 FEET

Area #G

Trail Creek

Start  
(2 blue)

	Bearing	Distance
1	237°	2 chains
2	193°	T. 10"
3	142°	0.90"
4	186°	<del>3.00</del>
5	<del>188°</del>	<del>2.00</del>
4	188°	2.00 chains
5	200°	0.70"
6	106°	0.81"
7	162°	1.20"
8	207°	1.40"
9	193°	2.40"
10	278°	1.70"
11	200°	2.00"
12	211°	0.70"
13	186°	1.20"
14	66°	1.10"
15	23°	1.70"
16	115°	0.80"
17	184°	1.40"
18	226°	0.70"
19	144°	0.90"
20	83°	0.90"
21	54°	1.20"
22	36°	0.60"
23	6°	0.70"
24	301°	1.50"
25	36°	1.60"
26	350°	1.00"
27	38°	.60"

section line

	Bearing	Distance
28 29	15°	1.00 chains
29 30	8°	2.50 "
30 31	58°	2.00 "
31 32	17°	1.50 "
32 33	39°	1.00 "
33 34	338°	1.00 "
34 35	3°	1.70 "
35 36	287°	0.70 "
36 37	353°	1.40 "
37 38	6°	0.80 "
38 39	250°	1.10 "
	312°	1.73 "

Area AG

Stand LP

Plot 1

BAF 10

BA 150

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
1 LP	6	40		
2	8	40 (43)		
3	7	50		
4	7	40		
5	6	40		
6	7	40		
7	8	40		
8	11	50		
9	7	50		
10	6	40		
11	8	40		
12	6	40		
13	6	40		
14	7	40		
15 ✓	7	40		

Area HG

Stand LP

Plot 2

BAF 10

BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
1 LP	9	50 (50)		
2	11	50		
3	8	50		
4	11	50		
5	11	60		
6	9	30		
7	8	40		
8	8	40		
9	6	30		

Area H GStand LPPlot 3BAF 10BA 110 (LP)

Species	DBH	Ht.	DMR	Remarks
1 LP	16	70 (74)		
2 ↓	9	60		
3 ↓	14	70		
4 Aspen	8			
5 ↓	10			
6 LP	9	50		
7 Aspen	7			
8 ↓	8			
9 LP	15	70		
10 ↓	13	60		
11 ↓	13	50		
12 Aspen	8			
13 LP	12	60		
14 ↓	12	50 <del>60</del>		Twin Top
15 ↓	13	60		
16 Aspen	12			
17 LP	10	40		Dead Top

Area AGStand LPPlot 4BAF 10BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
1 LP	6	40 8		Turn top
2	8	50 (53)		Gall Rust
3	8	50	Heavy	Heavy DM
4	6	40		
5	7	40		
6	7	50		
7	6	40		
8	6	50		
9	7	50		

Area H GStand LPPlot 5BAF 10BA 150

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
1 LP	10	50		
2	7	50		
3	6	40		Twin Top Dead
4	7	50		
5	9	50		
6	11	60		
7	8	50 (51)		
8	9	60		
9	9	60		
10	6	40		FK Top
11	6	40		
12	8	50		Twin Top
13	10	50		Twin Top
14	7	50		
15	7	50		

Area HGStand LPPlot 6BAF 10BA 150

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
1 LP	6	40		
2	6	40		Twin top
3	6	50		
4	6	40		
5	6	50		
6	6	40		Twin
7	6	40		Twin
8	7	50		
9	7	40		Twin
10	6	40		Twin
11	8	50		
12	8	50		
13	8	40		
14	6	40		
15	7	40 (45)	<del>40</del> <del>45</del>	Heavy DM Gall Rust

Area #GStand LPPlot 7BAF 10BA 70

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
1 LP	6	40		
2	7 <del>7</del>	40		
3	7	50		
4	6	40		
5	7	40		
6	6	40		Creek @ 12'
7 ↓	8	40		

SW Corner  
next to Section  
Line

Rays Copy

STATISTICAL ANALYSIS - SMALL SAMPLE

2830  
Trail Creek #3 Unit  
9 Type

x = Board feet or basal area per sampling point. From R2-2400-60.  
n = Number of sample points taken. \_\_\_\_\_

x	x <sup>2</sup>	x	x <sup>2</sup>	x	x <sup>2</sup>	x	x <sup>2</sup>	x	x <sup>2</sup>
150	22500								
90	8100								
110	12100								
90	8100								
150	22500								
150	22500								
70	4900								
Column Sub-Totals									
810	100700								

$\sum x = 810$        $\sum x^2 = 100,700$        $n = 7$

(1) Mean =  $\bar{x} = \frac{\sum x}{n} = \frac{810}{7} = 115.7$  MBF (BA)

(2) Standard Deviation = S.D.  $\sqrt{1,162}$

$$= \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}} = \frac{100,700 - \frac{93,729}{6}}{6} = \pm 34.1 \text{ MBF(BA)}$$

(3) Coefficient of Variation = C.V.

$$= \frac{SD (100)}{\bar{x}} = \frac{3410}{115.7} = 29.5 \%$$

(4) Number of sampling points needed = N.

$$= \frac{(C.V.)^2}{(\text{Maximum Sampling Error})^2} = \frac{(29.5)^2}{(5)^2} = \frac{870.25}{25} = 9 \text{ Plots}$$

(5) Standard Error of the Mean = S.E.

$$= \frac{S.D.}{\sqrt{n}} = \frac{29.5}{\sqrt{7}} = 11.15 \text{ MBF(BA)}$$

(6) Sampling Error = E.

$$= \frac{S.E. (100)}{\bar{x}} = \frac{11.15 \times 100}{115.7} = 9.6 \%$$

(A)

PROGRAM RMCRUZ

09:38:03 11-13-1991

STAND: Unit 1

A

PER ACRE STAND SUMMARY  
ALL SPECIES

	DBH	HEIGHT CLASS											TOTAL
		20	30	40	50	60	70	80	90	100	110	120	
STEMS	4	19	57	11	0	0	0	0	0	0	0	0	88
CUVOL	4	20	58	15	0	0	0	0	0	0	0	0	93
SCRIB	4	106	213	58	0	0	0	0	0	0	0	0	377
STEMS	6	0	102	50	0	0	0	0	0	0	0	0	151
CUVOL	6	0	199	153	0	0	0	0	0	0	0	0	351
SCRIB	6	0	658	584	0	0	0	0	0	0	0	0	1241
STEMS	8	0	34	62	3	0	0	0	0	0	0	0	99
CUVOL	8	0	146	385	23	0	0	0	0	0	0	0	554
SCRIB	8	0	555	1568	93	0	0	0	0	0	0	0	2216
STEMS	10	0	2	25	4	0	0	0	0	0	0	0	31
CUVOL	10	0	13	260	47	0	0	0	0	0	0	0	321
SCRIB	10	0	55	1082	198	0	0	0	0	0	0	0	1335
STEMS	12	0	0	8	1	0	0	0	0	0	0	0	9
CUVOL	12	0	0	115	24	0	0	0	0	0	0	0	139
SCRIB	12	0	0	483	103	0	0	0	0	0	0	0	586

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TOTAL	STEMS	0	19	195	156	8	0	0	0	0	0	0	0	378
	CUVOL	0	20	416	928	94	0	0	0	0	0	0	0	1458
	SCRIB	0	106	1481	3774	394	0	0	0	0	0	0	0	5755

STAND: Unit 1  
PER ACRE SUMMARY

STEMS	BA	DBH	HT	AGE
378	97	6.9	36	95

CRUISE SUMMARY  
BAF USED = 10 PTS SMP LD = 10      AVG. # TREES/PT. = 9.7

90 ft<sup>3</sup>  
4.3 Acres  
80 ft<sup>3</sup>  
~~16.2 cords/A~~  
~~70 c~~  
~~69.7 cords/A~~  
~~18.2 cords/A~~  
78.3 cords

85 ft<sup>3</sup> - 17.153/A = 74 cords

85 = 17.2/A  
x 4.3  
-----  
less 10% defect  
-----  
66.6 cords

TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: TRAIL CREEK -- UNIT **A**

COURSE	DEGREE (AZIMUTH)	LENGTH (CHAINS)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	308.00	1.25	0.771	-0.997	0.000	0.000
2- 3	5.00	1.00	0.998	0.078	0.771	-0.997
3- 4	5.00	2.00	1.995	0.156	1.769	-0.919
4- 5	5.00	0.50	0.499	0.039	3.764	-0.763
5- 6	8.00	2.00	1.983	0.260	4.263	-0.724
6- 7	7.00	2.00	1.988	0.225	6.246	-0.464
7- 8	7.00	1.40	1.392	0.158	8.234	-0.239
8- 9	73.00	1.10	0.323	1.042	9.626	-0.082
9- 10	5.00	0.90	0.898	0.070	9.949	0.960
10- 11	308.00	1.20	0.740	-0.957	10.847	1.030
11- 12	6.00	1.50	1.494	0.143	11.587	0.074
12- 13	82.00	1.00	0.141	0.981	13.081	0.216
13- 14	101.00	1.20	-0.227	1.167	13.222	1.197
14- 15	140.00	1.00	-0.765	0.633	12.994	2.364
15- 16	178.00	2.00	-1.996	0.051	12.230	2.998
16- 17	36.00	2.00	1.621	1.157	10.234	3.049
17- 18	36.00	1.00	0.810	0.578	11.855	4.206
18- 19	147.00	1.00	-0.837	0.535	12.665	4.784
19- 20	199.00	1.00	-0.944	-0.335	11.828	5.320
20- 21	220.00	1.00	-0.765	-0.652	10.884	4.985
21- 22	212.00	1.50	-1.270	-0.809	10.119	4.333
22- 23	130.00	0.60	-0.385	0.454	8.849	3.524
23- 24	190.00	2.00	-1.967	-0.366	8.464	3.978
24- 25	182.00	1.60	-1.597	-0.071	6.497	3.612
25- 26	239.00	2.00	-1.027	-1.733	4.901	3.541
26- 27	239.00	1.00	-0.514	-0.866	3.873	1.809
27- 28	167.00	2.00	-1.946	0.431	3.360	0.942
28- 29	167.00	1.25	-1.216	0.270	1.414	1.373
29- 1	263.00	1.64	-0.198	-1.643	0.198	1.643
		39.64	-0.056	0.368		

CLOSURE = 0.372 CHAINS

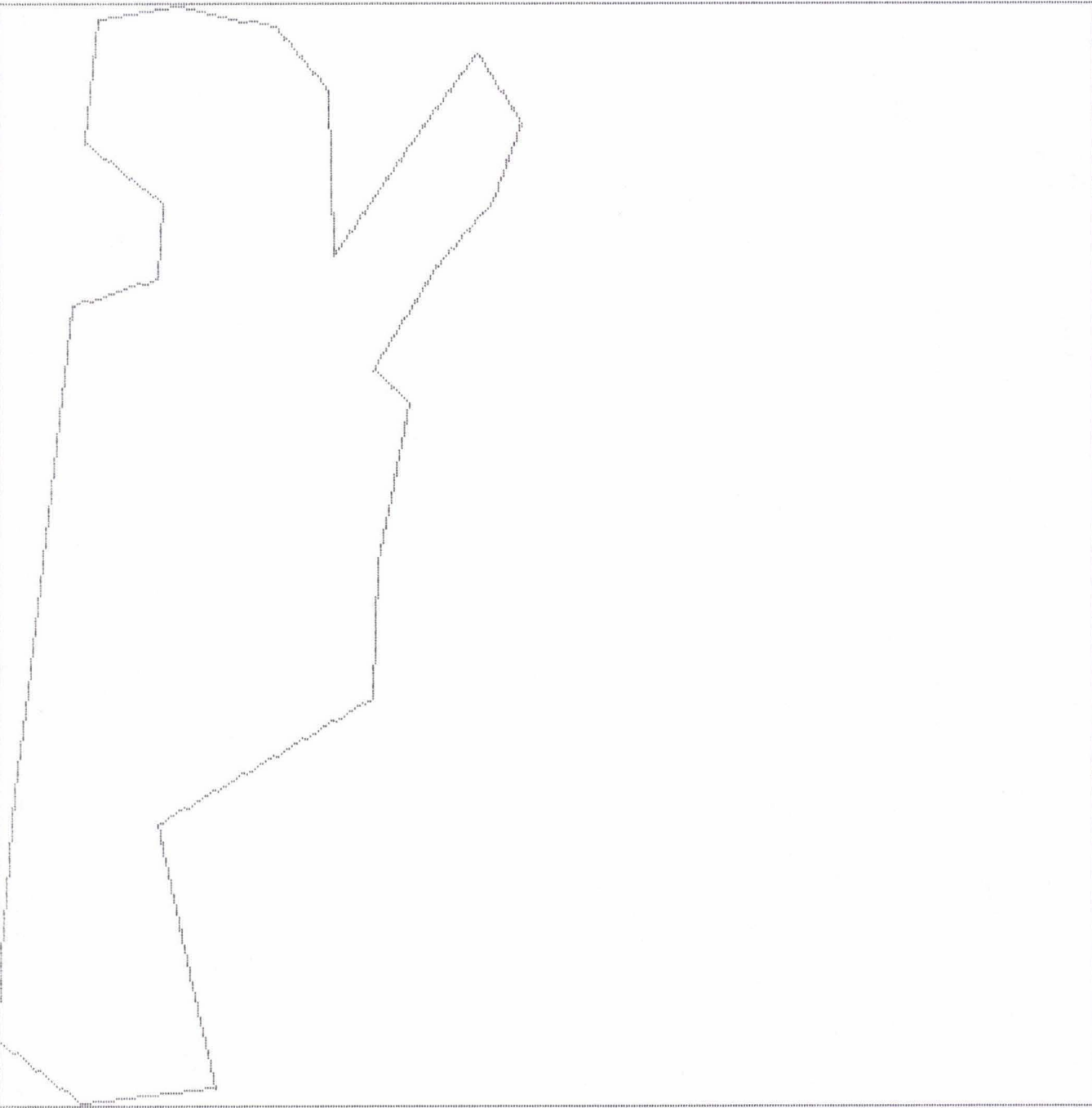
PRECISION = 1 IN 106 ( 0.9%)

CORRECTED AREA = **4.266 ACRES**  
42.664 SQUARE CHAINS

UNCORRECTED AREA = 4.537 ACRES  
45.368 SQUARE CHAINS

CORRECTED MAP OUTPUT FOR: TRAIL CREEK -- UNIT 1

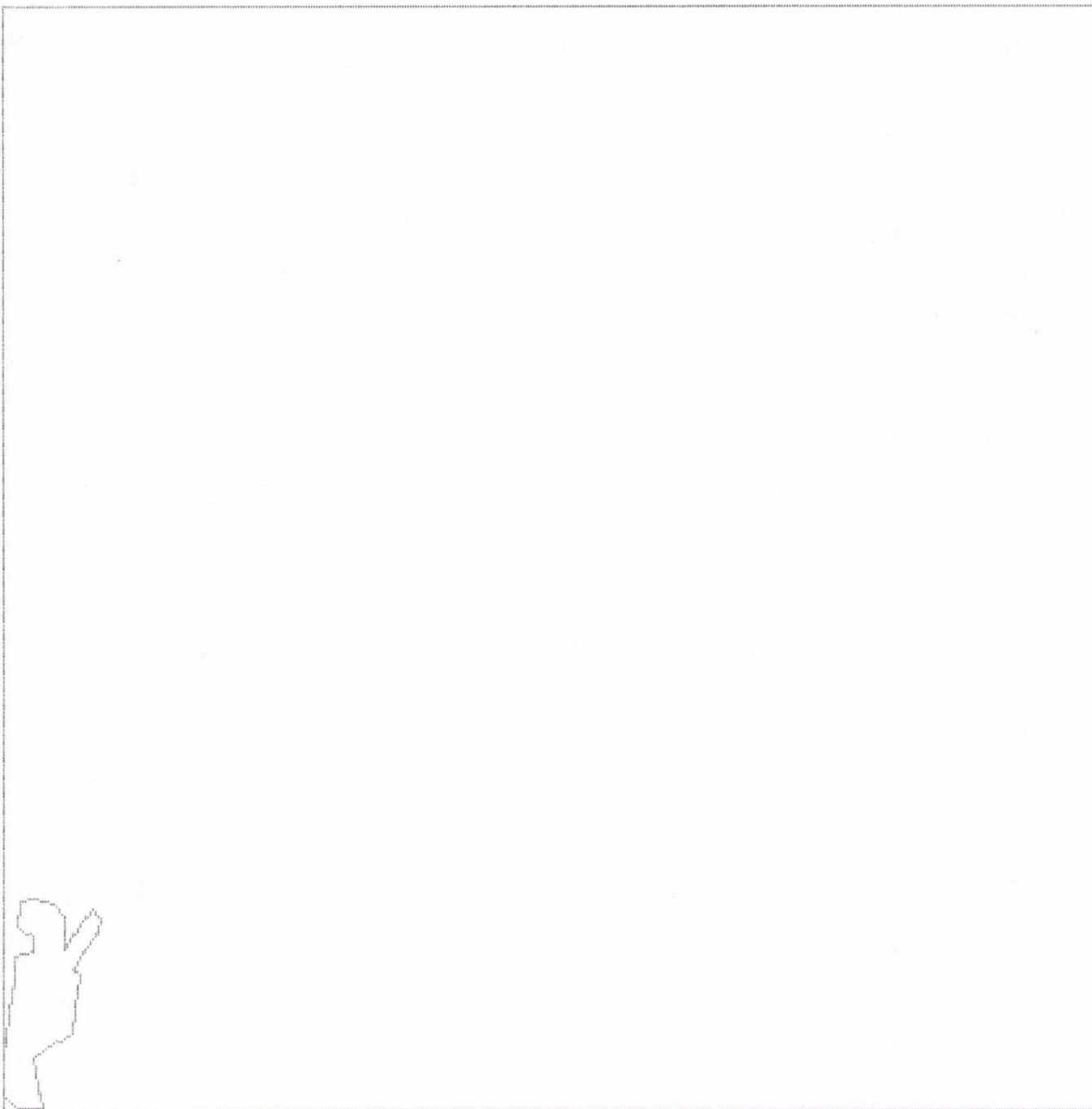
North



MAP SCALE: 1 : 1484  
1 INCH = 1.87 CHAINS  
123.65 FEET

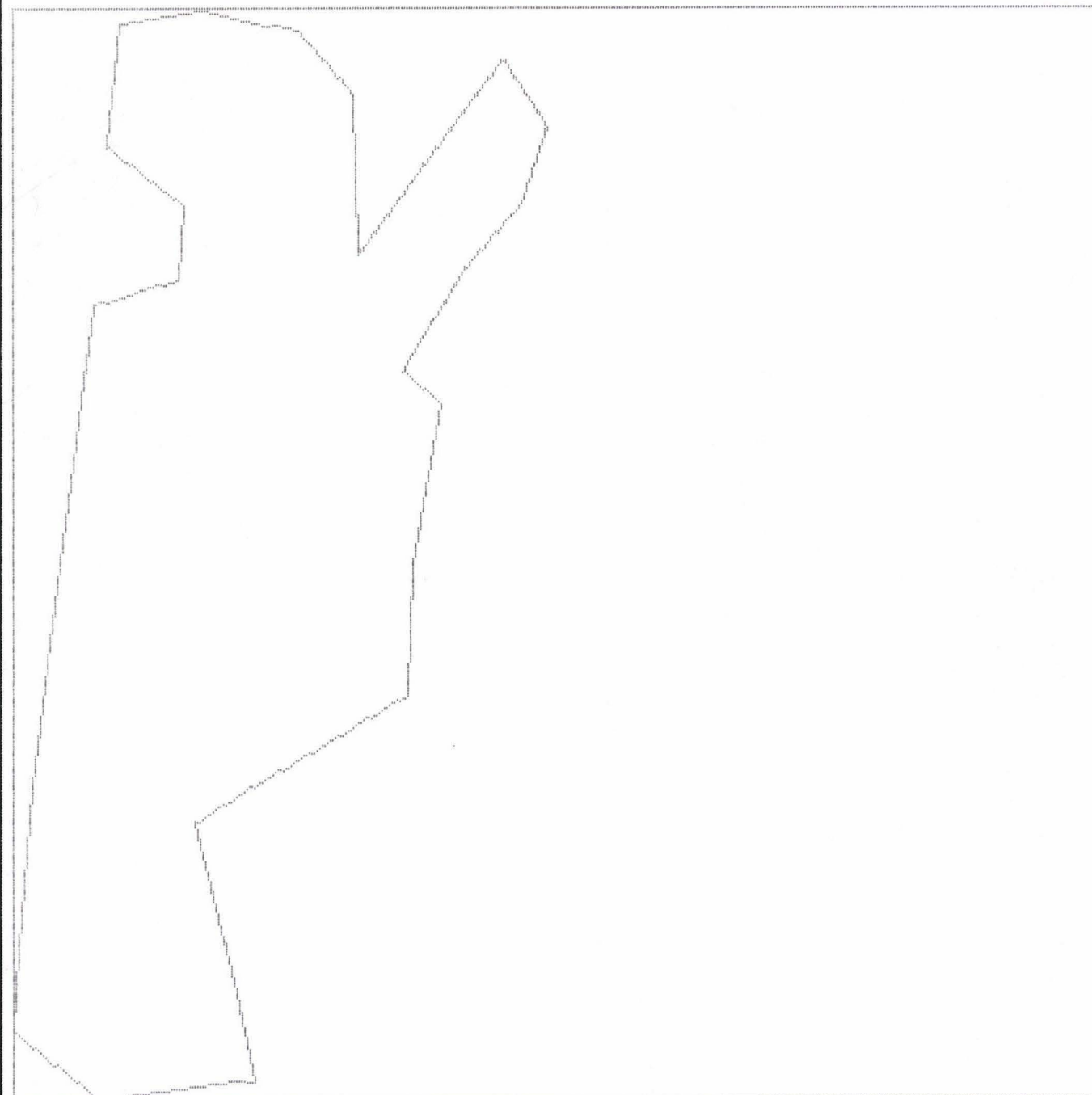
CORRECTED MAP OUTPUT FOR: TRAIL CREEK -- UNIT 1

North



MAP SCALE: 1 : 7920  
8 INCHES = 1 MILE (80 CHAINS)

North



MAP SCALE: 1 : 1500  
1 INCH =

1.89 CHAINS  
124.98 FEET

Area 1

Stand \_\_\_\_\_

Plot 1

BAF 10

BA 70

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	7.7	31	0	Age 94
DF	6.1	26	0	
LP	6.8	30	1	
LP	5.9	28	1	
LP	5	22	0	
DF	8.1	32	0	
LP	8	32	0	

Slope 6%

Regen 0  $\frac{1}{100}$  of acre

Starting From where boundary crosses Road in  
3 chains then every <sup>1.5 to</sup> 2 chains for 6 Plots at  
10°.

Turning to 140°, 1.5 to 2 chains for 2 Plots  
Then turning 190°, 1.5 to 2 chains for 2 Plots

Area 1

Stand \_\_\_\_\_

Plot 2BAF 10BA 130

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8.9	34	0	
LP	5.1	28	0	
LP	4.5	29	0	
LP	10.1	36	0	Age 96
LP	6	33	1	
LP	5.9	30	1	
LP	5.1	32	0	
LP	5.2	30	0	
LP	7.7	30	0	
LP	4.7	32	0	
LP	6.9	31	0	
LP	5.7	32	0	
LP	4.6	32	0	

Regen = 0  
Slope 12%

Good Growth For 1st 20 years  
then Slows.

Area 1

Stand \_\_\_\_\_

Plot 3BAF 10BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	11.3	43	0	
LP	9	40	1	
LP	9	45	2	
LP	6.5	35	0	
LP	9.8	40	0	
LP	11.4	41	1	
LP	<del>11.3</del> 8	36	0	Forked top
LP	10.6	45	1	Age 96 to 98
LP	11.1	43	0	
LP	11	41	1	

Regen 21  
Slope 15

Area 1

Stand \_\_\_\_\_

Plot 4BAF 10BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	9.4	40	0	
LP	9.9	41	0	
LP	7.6	37	0	
LP	8.8	40	0	
LP	9.7	42	1	Age 92
LP	9.4	43	1	
LP	6.8	35	0	
LP	9.5	45	1	
LP	7.2	39	1	

Regen 4

Slope 12%

Good Growth 1st 20 years then slows  
 appeared to respond to thinning over  
 20 years ago.

Area 1

Stand \_\_\_\_\_

Plot 5BAF 10BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
<del>LP</del>	11.5	40		
LP	12.4	42		
LP	5.8	33		
LP	6.2	37		
LP	6	35		Dead
LP	8	39		
LP	7	35		
LP	7.1	36		
LP	6.2	34		

Age Approx 90 yrs  
 Slope 87°  
 Regen 1 aspen

Area 7

Stand \_\_\_\_\_

Plot 6BAF 10BA 110

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6.8	35	0	
LP	3.9	25	0	
LP	8.3	33	1	
LP	10.4	34	1	
LP	7.8	36	1	
LP	8	35	1	
LP	9.9	36	0	
LP	8.9	35	1	
LP	9.3	36	0	
LP	7.1	32	1	
LP	6.3	32	1	

Slope 11%  
 Regen 0  
 Approx age 90

Area 1

Stand \_\_\_\_\_

Plot 2BAF 10BA 150

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	9.3	45	0	Canker
LP	7.4	45	1	
LP	8.1	46	0	
LP	9.9	46	0	
LP	8.4	45	0	
LP	6.4	45	0	
LP	4.5	37	1	
LP	5.9	40	1	
LP	7.2	44	1	
LP	5.8	45	0	
LP	10.5	46	0	
LP	8.2	44	0	
LP	6.8	41	0	
<del>LP</del>				
Slope 47° Approx Age 90 Regen 10 Aspen 1 DF				
LP	8.6		1	
LP	5.6		1	

Area 1

Stand \_\_\_\_\_

Plot 8BAF 10BA 60

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	4.8	30	1	
LP	7.9	30	1	
LP	6.7	34	1	Forked top
LP	6.2	36	1	
LP	5.6	32	1	
LP	8.1	29	1	
LP				

Regen  $\odot$   
 slope 15%  
 Approx Age 90

Area 1

Stand \_\_\_\_\_

Plot 9BAF 10BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8.9	39	1	
LP	6.1	35	0	
LP	6.6	35	1	
LP	7.4	37	1	Forked top
LP	8	38	0	
LP	7.1	37	1	
LP	8.5	39	1	
LP	7.2	36	1	
LP	6	35	2	
LP	7.6	34	1	

Regen 0  
 slope 14%  
 App Age 90

species	DBH	HT	DMR
LP	10.4	42	0
LP	10	40	0
LP	8.3	39	1 FT
DP	4.8	20	0
LP	11.5	45	1 0
LT	12	45	1 FT
LP	7.2	30	1

Slope 10

Regen 7

Area 1

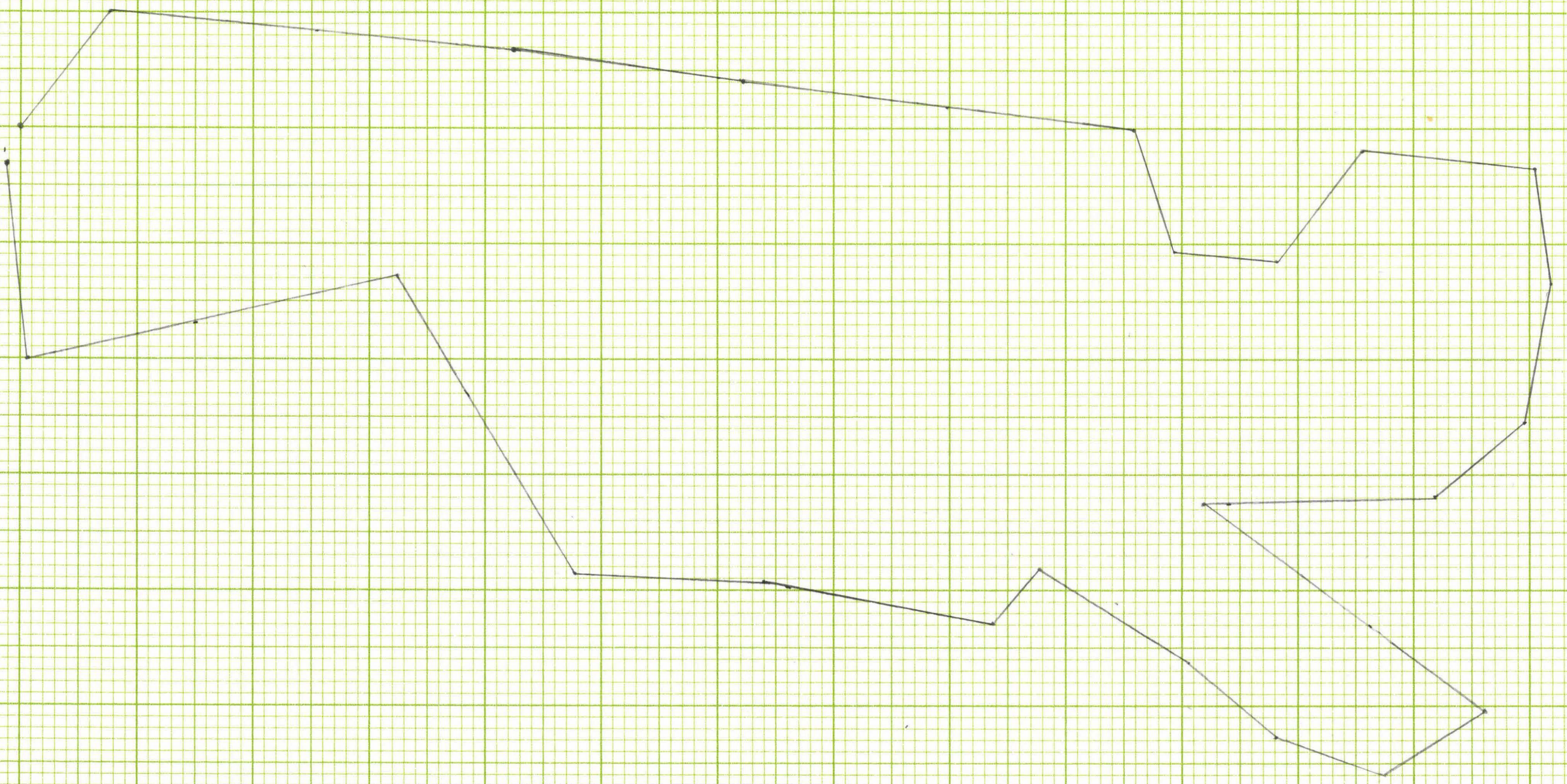
Stand \_\_\_\_\_

Plot 10BAF 10BA 70

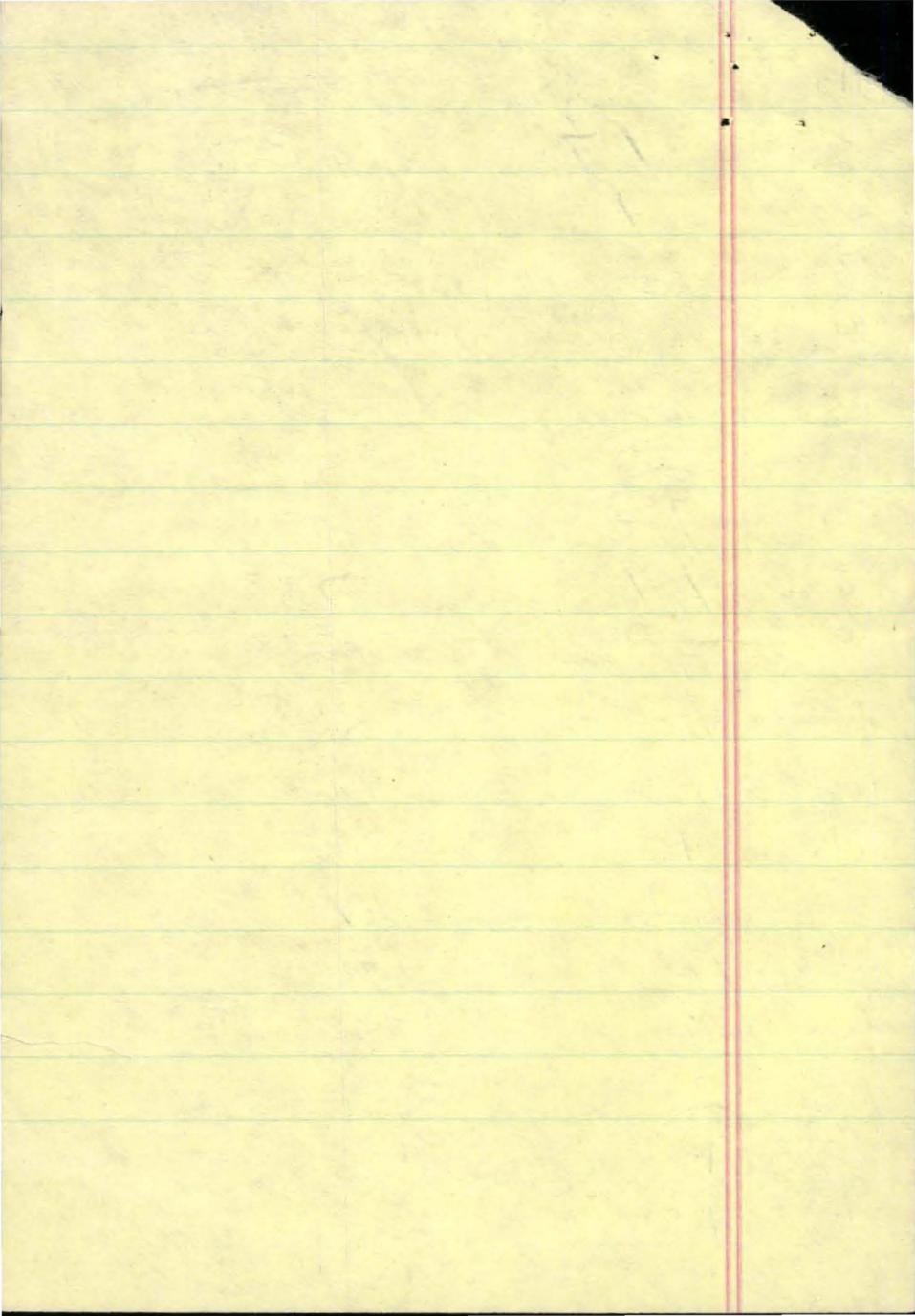
<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10.4	42	0	
LP	10	40	0	
LP	8.3	39	1	Fork top
DF	4.8	20	0	
LP	11.5	45	1	
LP	12	45	1	Fork top
LP	7.2	30	1	

Approx Age 90  
 Regen 7  
 Slope 10

Unit 1 (A)  
1" = 1 chain  
N ↑



Sta	Dis	Chains	Az <del>Bearing</del>
1 ✓	1.4		308°
2 ✓	1	V r i x N	05°
3 ✓	2		05°
4 ✓	.5		05°
5 ✓	2		08°
6 ✓	2		07°
7 ✓	1.40		07°
8 ✓	1.1		73°
9 ✓	.9		05°
10 ✓	1.2		308°
11 ✓	1.5		06°
12 ✓	1	82°	
13 ✓	1.2	101°	
14 ✓	1	140°	
15 ✓	2	178°	
16 ✓	2	36°	
17 ✓	1	36°	
18 ✓	1	147°	
19 ✓	1	199	



Sta	✓	Dis	Az
20	✓	1	220
21	✓	1.5	212
22	✓	0.6	130
23	✓	2	190
24	✓	1.6	182°
25	✓	2	239°
26	✓	1	239°
27		2	167
28		1. $\frac{1}{4}$	167
29		1.64	263
30			

NW Unit

Wells - Longmont #

N Glen

Rays Copy

STATISTICAL ANALYSIS - SMALL SAMPLE

24  
Trail Creek #2  
A Unit  
 Type

x = Board feet or basal area per sampling point. From R2-2400-60.  
 n = Number of sample points taken. \_\_\_\_\_

x	x <sup>2</sup>	x	x <sup>2</sup>	x	x <sup>2</sup>	x	x <sup>2</sup>	x	x <sup>2</sup>
70	4900								
130	16900								
100	10000								
90	8100								
90	8100								
110	12100								
150	22500								
60	3600								
100	10000								
70	4900								
Column Sub-Totals									
970	101100								

$\sum x = 970$        $\sum x^2 = 101,100$        $n = 10$

(1) Mean =  $\bar{x} = \frac{\sum x}{n} = \underline{97}$  MBF(BA)

(2) Standard Deviation = S.D.  $\sqrt{779}$   

$$= \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}} = \frac{101,100 - 94,090}{9} = \underline{27.9}$$
 MBF(BA)

(3) Coefficient of Variation = C.V.  

$$= \frac{SD (100)}{\bar{x}} = \underline{28.8}$$
 %

(4) Number of sampling points needed = N.  

$$= \frac{(C.V.)^2}{(\text{Maximum Sampling Error})^2} = \frac{(\quad)^2}{(5)^2} = \frac{829}{25} = \underline{8}$$
 Plots

(5) Standard Error of the Mean = S.E.  

$$= \frac{S.D.}{\sqrt{n}} = \frac{27.9}{3.162} = \underline{8.82}$$
 MBF(BA)

(6) Sampling Error = E.  

$$= \frac{S.E. (100)}{\bar{x}} = \underline{9.1}$$
 %

(B)

PROGRAM RMCRUZ

09:43:45 12-23-1991

STAND: UNIT B

landing

PER ACRE STAND SUMMARY  
ALL SPECIES

	DBH	HEIGHT CLASS											TOTAL
		20	30	40	50	60	70	80	90	100	110	120	
STEMS	4	147	122	0	0	0	0	0	0	0	0	0	269
CUVOL	4	51	128	0	0	0	0	0	0	0	0	0	179
SCRIB	4	1419	1905	0	0	0	0	0	0	0	0	0	3324
STEMS	6	17	59	0	0	0	0	0	0	0	0	0	76
CUVOL	6	16	143	0	0	0	0	0	0	0	0	0	159
SCRIB	6	45	528	0	0	0	0	0	0	0	0	0	572
STEMS	8	0	8	76	0	10	23	0	0	0	0	0	116
CUVOL	8	0	43	466	0	92	334	0	0	0	0	0	935
SCRIB	8	0	175	1892	0	383	1407	0	0	0	0	0	3857
STEMS	10	0	0	0	0	0	31	0	0	0	0	0	31
CUVOL	10	0	0	0	0	0	565	0	0	0	0	0	565
SCRIB	10	0	0	0	0	0	2387	0	0	0	0	0	2387
STEMS	12	0	0	0	0	0	16	0	0	0	0	0	16
CUVOL	12	0	0	0	0	0	432	0	0	0	0	0	432
SCRIB	12	0	0	0	0	0	1959	0	0	0	0	0	1959
STEMS	14	0	0	0	0	0	3	0	0	0	0	0	3
CUVOL	14	0	0	0	0	0	105	0	0	0	0	0	105
SCRIB	14	0	0	0	0	0	495	0	0	0	0	0	495
-----													
TOTAL													
STEMS	0	164	189	76	0	10	73	0	0	0	0	0	511
CUVOL	0	67	314	466	0	92	1437	0	0	0	0	0	2376
SCRIB	0	1464	2608	1892	0	383	6248	0	0	0	0	0	12595

$2376 \div 85 = 28.0$   
 $\times 1.9$   
53.2  
 less 100%  
47.88 cords

STAND: UNIT B  
PER ACRE SUMMARY  
STEMS BA DBH HT AGE  
511 130 6.8 44 100

CRUISE SUMMARY  
BAF USED = 10 PTS SMP LD = 3 AVG. # TREES/PT. = 13.0

85 ft<sup>3</sup> solid wood per cord

83 | 2356 = 28.39

85 | 2376 ft<sup>3</sup> ≈ 28 cords/Acre

$85 \text{ ft}^3 = 27.95 \times$   
 $\frac{1.9}{53 \text{ cords}}$

01	01	2	12.0	070	100
01	02	2	08.0	060	100
01	03	2	14.0	070	100
01	04	2	12.0	070	100
01	05	2	13.0	070	100
01	06	2	10.0	070	100
01	07	2	10.0	070	100
01	08	2	10.0	070	100
01	09	2	10.0	070	100
01	10	2	09.0	070	100
01	11	2	09.0	070	100
01	12	2	09.0	070	100
01	13	2	12.0	070	100
01	14	2	10.0	070	100
02	01	2	05.0	030	100
02	02	2	05.0	030	100
02	03	2	05.0	030	100
02	04	2	06.0	030	100
02	05	2	09.0	030	100
02	06	2	08.0	040	100
02	07	2	08.0	040	100
02	08	2	08.0	040	100
03	01	2	08.0	040	100
03	02	2	06.0	020	100
03	03	2	08.0	040	100
03	04	2	05.0	020	100
03	05	2	08.0	040	100
03	06	2	05.0	020	100
03	07	2	05.0	020	100
03	08	2	05.0	020	100
03	09	2	05.0	030	100
03	10	2	05.0	020	100
03	11	2	05.0	030	100
03	12	2	05.0	020	100
03	13	2	07.0	030	100
03	14	2	07.0	030	100
03	15	2	08.0	040	100
03	16	2	08.0	040	100
03	17	2	06.0	030	100

B

Area 3  
Landing

<u>PT</u>	<u>DIST</u>	<u>BRNG</u>	
1	1.3	241°	* Along Rd @ bottom
2	2	282°	
3	2	264°	
4	1 1/2	295°	
5	0.9	338°	E.W. FHS is E Access Rd.
6	1.1	56°	Along Access Rd
7	1.1	36°	
8	1 1/2	82°	
9	0.7	135°	
10	1 3/4	44°	
11	1.4	69°	
12	1 1/2	165°	Protect Christmas Tree Regrad.
13	2	181°	
14	0.6	148°	



TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: LANDING

COURSE	DEGREE (AZIMUTH)	LENGTH (FEET)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	241.00	85.80	-41.893	-74.838	0.000	0.000
2- 3	282.00	132.00	26.988	-128.801	-41.893	-74.838
3- 4	264.00	132.00	-14.254	-130.962	-14.905	-203.639
4- 5	295.00	99.00	41.497	-89.488	-29.159	-334.601
5- 6	338.00	59.40	54.869	-22.110	12.338	-424.089
6- 7	56.00	72.60	40.346	60.361	67.208	-446.199
7- 8	36.00	72.60	58.484	42.846	107.554	-385.838
8- 9	82.00	99.00	13.436	98.273	166.038	-342.992
9- 10	135.00	46.20	-32.828	32.778	179.474	-244.719
10- 11	44.00	115.50	82.685	80.508	146.646	-211.941
11- 12	69.00	92.40	32.794	86.483	229.331	-131.432
12- 13	165.00	99.00	-95.969	25.859	262.124	-44.949
13- 14	181.00	132.00	-132.436	-1.989	166.156	-19.090
14- 1	148.00	39.60	-33.720	21.079	33.720	-21.079
		1277.10	4.414	-3.045		

CLOSURE = 5.362 FEET

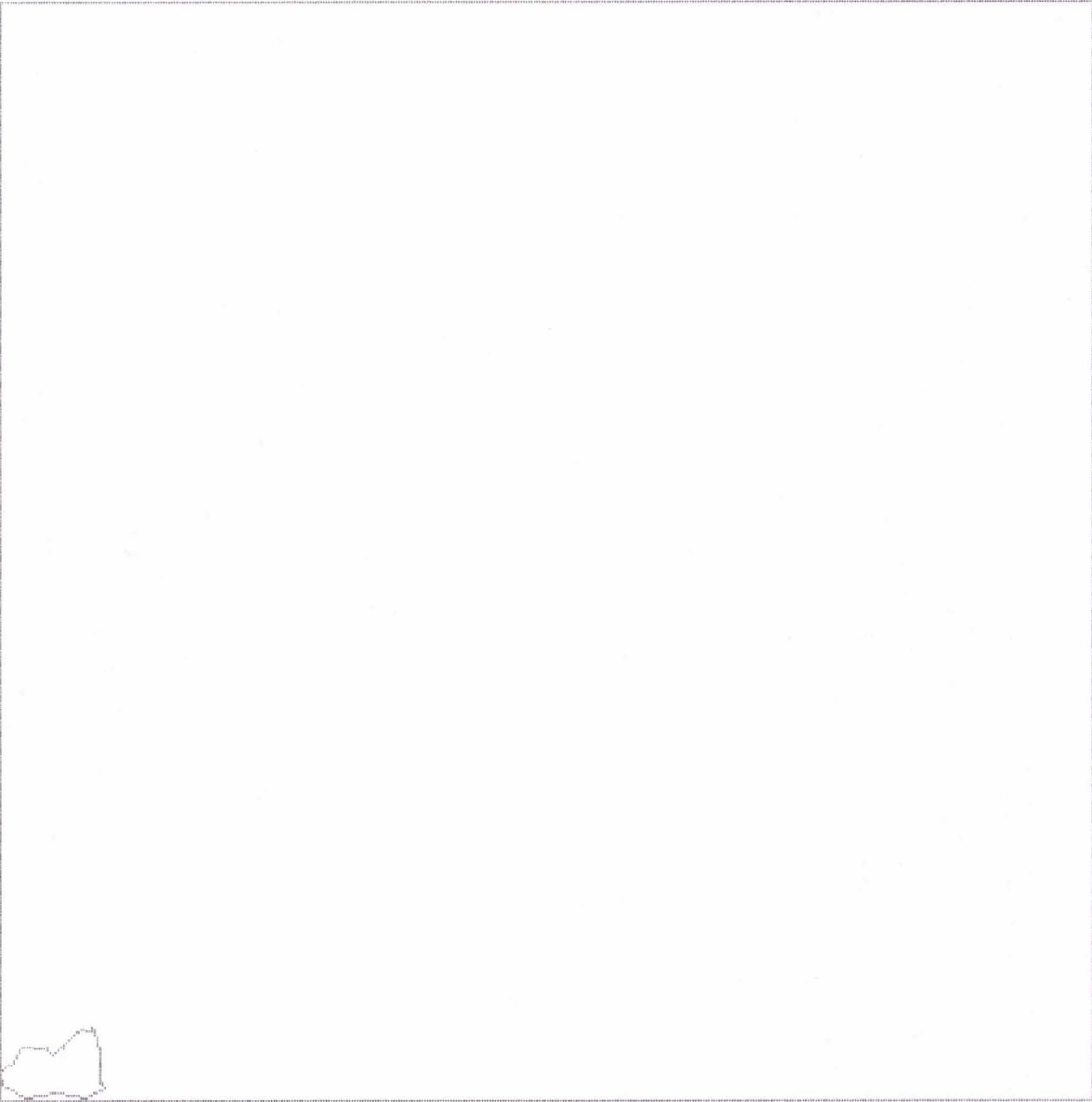
PRECISION = 1 IN 238 ( 0.4%)

CORRECTED AREA = 1.917 ACRES  
83521.644 SQUARE FEET

UNCORRECTED AREA = 1.926 ACRES  
83889.769 SQUARE FEET

CORRECTED MAP OUTPUT FOR: LANDING

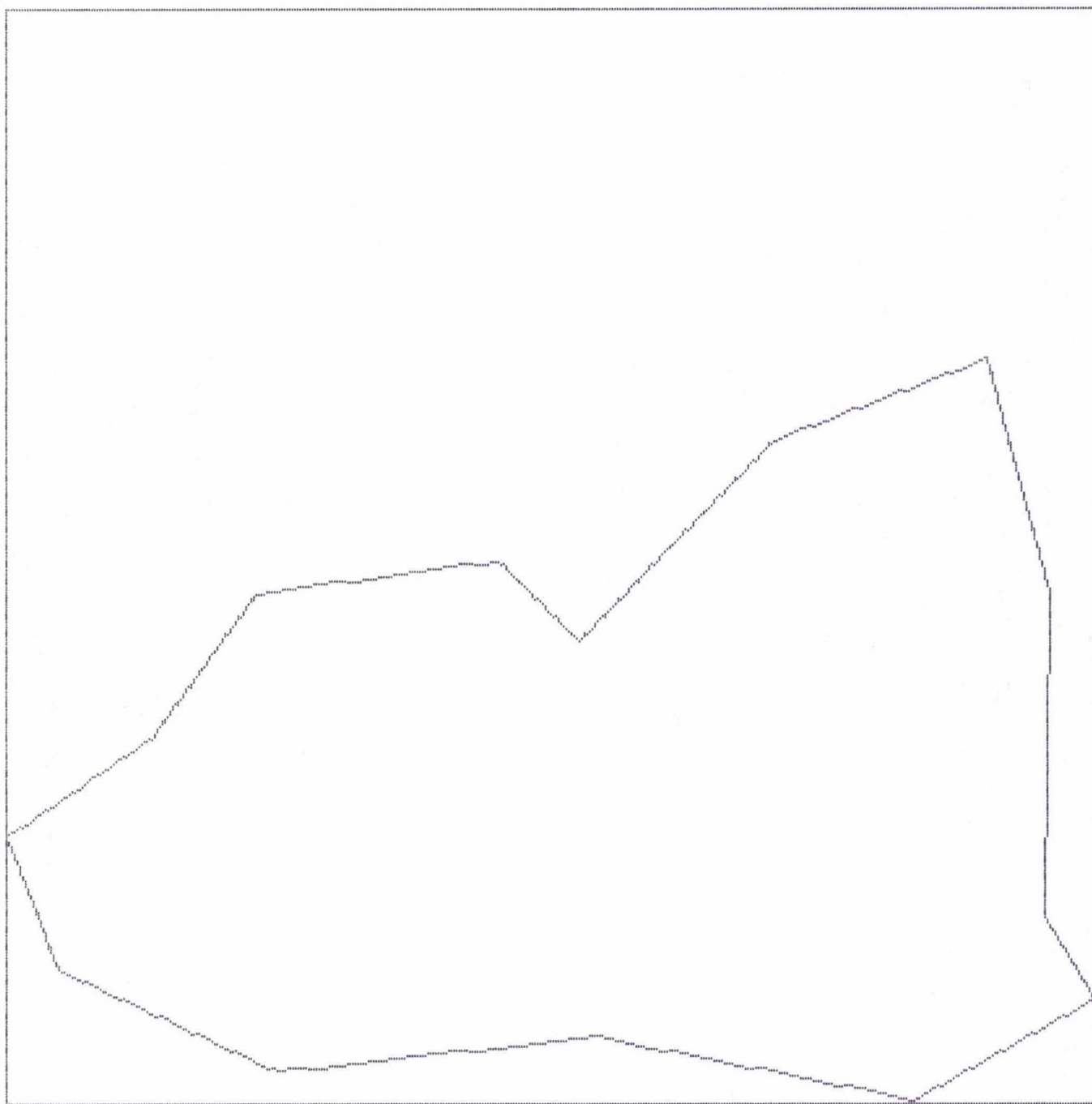
North



MAP SCALE: 1 : 7920  
8 INCHES = 1 MILE (80 CHAINS)

CORRECTED MAP OUTPUT FOR: AREA 3

North

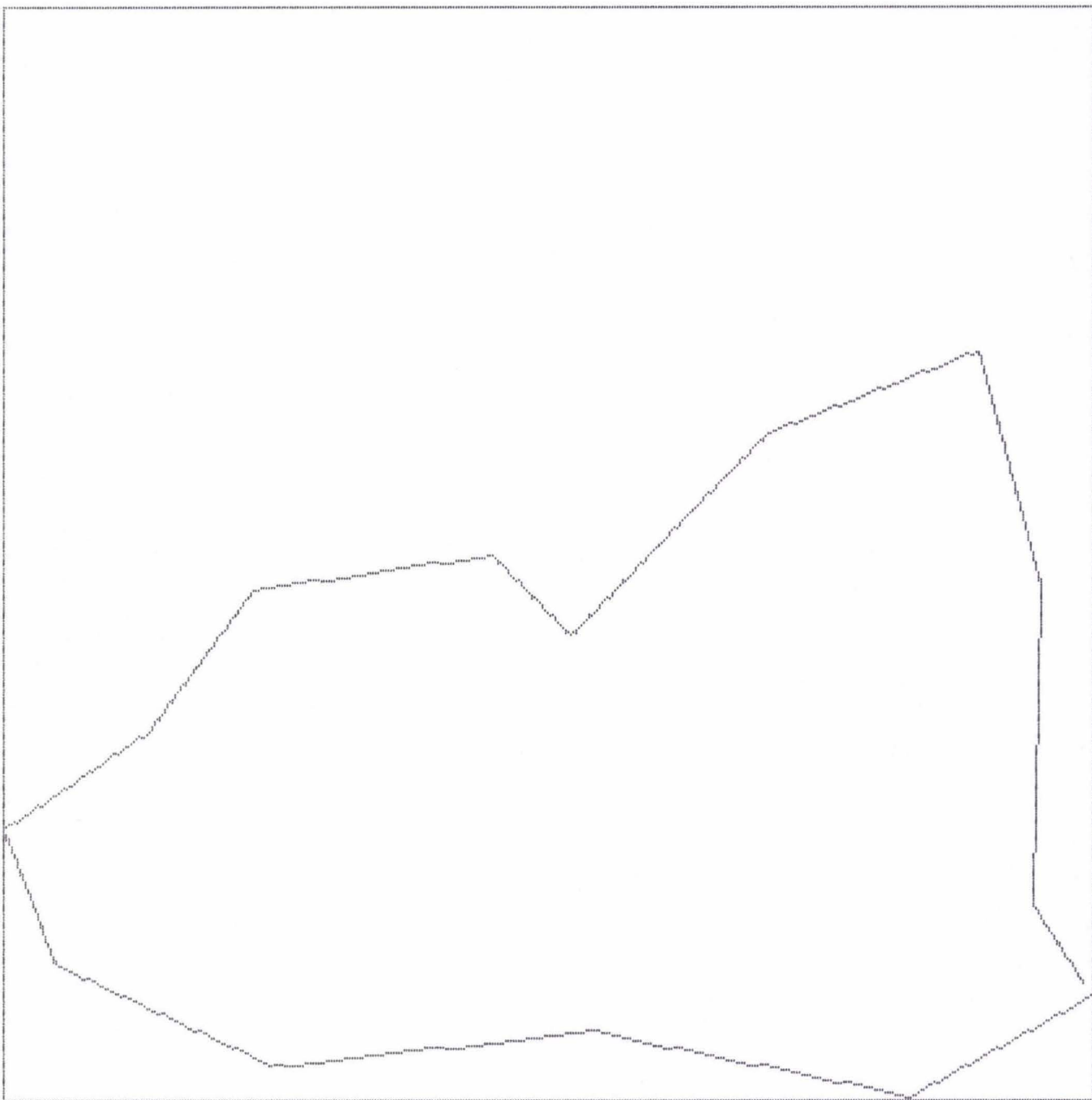


MAP SCALE: 1 : 765  
1 INCH =

0.97 CHAINS  
63.77 FEET

UNCORRECTED MAP OUTPUT FOR: AREA 3

North



MAP SCALE: 1 : 767  
1 INCH = 0.97 CHAINS  
63.92 FEET

TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: AREA 3

COURSE	DEGREE (AZIMUTH)	LENGTH (CHAINS)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	241.00	1.30	-0.635	-1.134	0.000	0.000
2- 3	282.00	2.00	0.409	-1.952	-0.635	-1.134
3- 4	264.00	2.00	-0.216	-1.984	-0.226	-3.085
4- 5	295.00	1.50	0.629	-1.356	-0.442	-5.070
5- 6	338.00	0.90	0.831	-0.335	0.187	-6.426
6- 7	56.00	1.10	0.611	0.915	1.018	-6.761
7- 8	36.00	1.10	0.886	0.649	1.630	-5.846
8- 9	82.00	1.50	0.204	1.489	2.516	-5.197
9- 10	135.00	0.70	-0.497	0.497	2.719	-3.708
10- 11	44.00	1.75	1.253	1.220	2.222	-3.211
11- 12	69.00	1.40	0.497	1.310	3.475	-1.991
12- 13	165.00	1.50	-1.454	0.392	3.972	-0.681
13- 14	181.00	2.00	-2.007	-0.030	2.518	-0.289
14- 1	148.00	0.60	-0.511	0.319	0.511	-0.319
		19.35	0.067	-0.046		

CLOSURE = 0.081 CHAINS

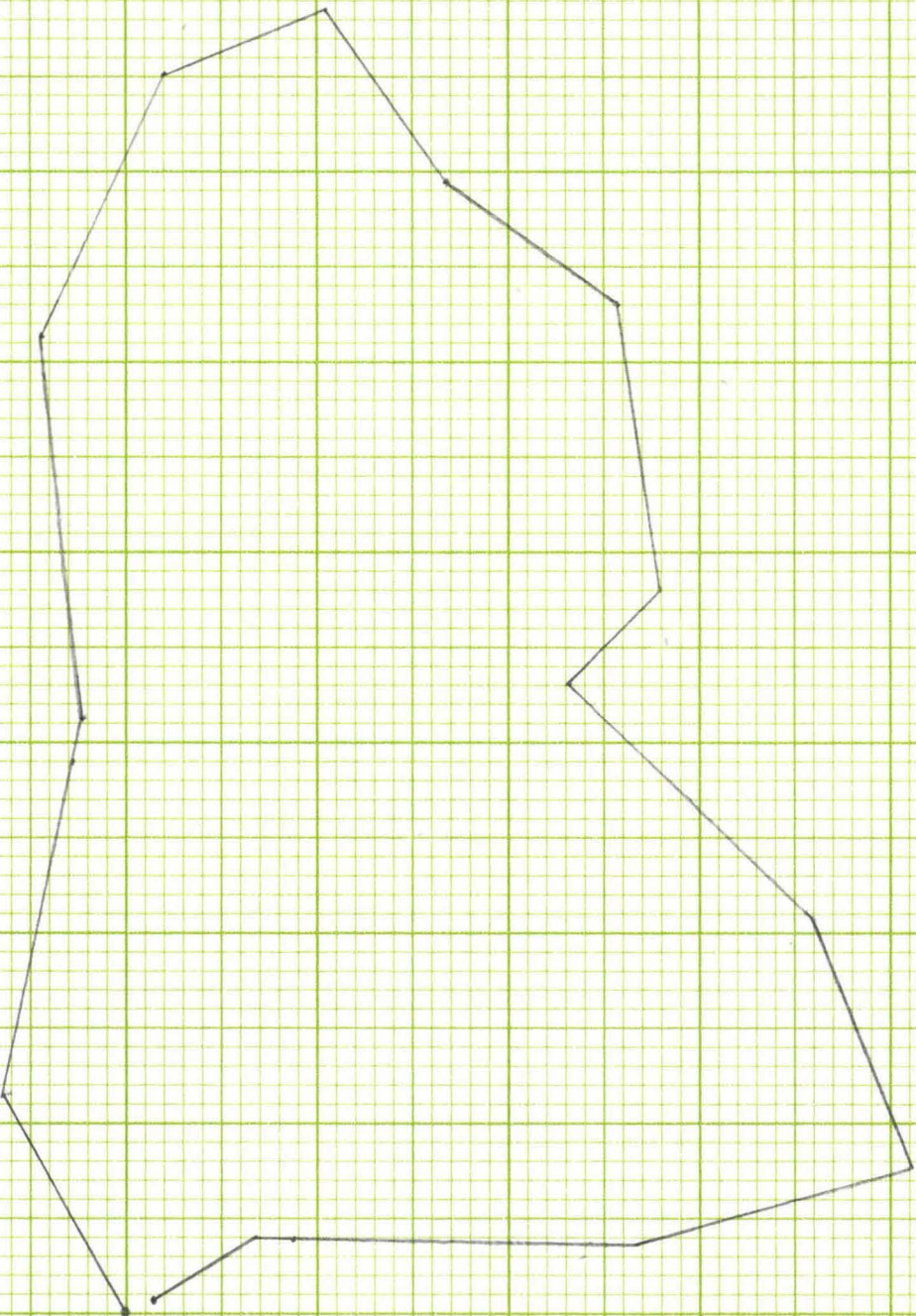
PRECISION = 1 IN 238 ( 0.4%)

CORRECTED AREA = 1.917 ACRES  
19.174 SQUARE CHAINS

UNCORRECTED AREA = 1.926 ACRES  
19.258 SQUARE CHAINS

Unit 3 Landing B  
1 inch = 1 Chain  
N ↑

N ↓



Area B  
~~100~~

Stand Landing

Plot 1 <sup>1/4</sup>

BAF 10

BA 140

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	12	3		# 16-20'
	8	2 1/2		to top
	14	3		after 3 loss
	12	3		Excellent
	13	3 <sup>2</sup>		Site (B <sub>2</sub> )
	10	3		
	10	3		similar to
	10	3		Area D
	10	3		
	9	3		
	9	3		
	9	3		
	12	3 <sup>(2)</sup>		
	10	3		

37

Area B

Stand Lands

Plot 2

BAF 10

BA 80

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	5	20'	6	28' total Ht
	5	16'	6	
	5	16'	6	
	6	22'	6	32' total
	9	1	3	Fork Top
	8	12	3	
	8	2	6	38' total Ht
	8	12	6	

20'  
16' + 10'  
16'  
22'

Area B

Stand Landing

Plot 3

BAF 10

BA 170

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8	2	3	38' total Ht Fork Top
	6	16	5	
	8	2	5	
	5	16	6	
	8	12	5	
	5	22	3	
	5	22	3	
	5	24	3	
	5	26	2	
	5	24	1	
	<del>5</del> 5	26	1	
	5	16	3	
	7	28	6	
	7	32	6	
	8	2	3	
	8	2	3	
	6	26	5	

#/10

w/ Green Rust

(C)

PROGRAM RMCRUZ

04:26:23 10-24-1991

STAND: UNIT C

PER ACRE STAND SUMMARY  
ALL SPECIES

	DBH	HEIGHT CLASS											TOTAL	
		20	30	40	50	60	70	80	90	100	110	120		
STEMS	4	0	21	21	0	0	0	0	0	0	0	0	0	42
CUVOL	4	0	34	44	0	0	0	0	0	0	0	0	0	78
SCRIB	4	0	219	279	0	0	0	0	0	0	0	0	0	499
STEMS	6	0	6	69	0	0	0	0	0	0	0	0	0	76
CUVOL	6	0	23	346	0	0	0	0	0	0	0	0	0	369
SCRIB	6	0	90	1388	0	0	0	0	0	0	0	0	0	1478
STEMS	8	0	11	69	16	0	0	0	0	0	0	0	0	96
CUVOL	8	0	71	572	142	0	0	0	0	0	0	0	0	784
SCRIB	8	0	288	2361	587	0	0	0	0	0	0	0	0	3237
STEMS	10	0	0	45	11	0	0	0	0	0	0	0	0	56
CUVOL	10	0	0	572	147	0	0	0	0	0	0	0	0	720
SCRIB	10	0	0	2399	619	0	0	0	0	0	0	0	0	3018
STEMS	12	0	0	7	4	0	0	0	0	0	0	0	0	11
CUVOL	12	0	0	139	68	0	0	0	0	0	0	0	0	207
SCRIB	12	0	0	587	282	0	0	0	0	0	0	0	0	868
STEMS	14	0	0	2	0	0	0	0	0	0	0	0	0	2
CUVOL	14	0	0	32	0	0	0	0	0	0	0	0	0	32
SCRIB	14	0	0	138	0	0	0	0	0	0	0	0	0	138
-----														
TOTAL														
STEMS	0	0	38	213	31	0	0	0	0	0	0	0	0	282
CUVOL	0	0	128	1705	357	0	0	0	0	0	0	0	0	2190
SCRIB	0	0	597	7152	1488	0	0	0	0	0	0	0	0	9238

25.76 cord/A

x 2.11

54 Cords

85 cuft = cord

STAND: UNIT C  
 PER ACRE SUMMARY  
 STEMS BA DBH HT AGE  
 282 117 8.7 42 100

CRUISE SUMMARY  
 BAF USED = 10 PTS SMP LD = 6 AVG. # TREES/PT. = 11.7

25.8  
 x 2.1  
 -----  
 54.2  
 less 10%  
 -----  
 48.78 = 49

TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: TRAIL CREEK -- UNIT 2

COURSE	DEGREE (AZIMUTH)	LENGTH (CHAINS)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	165.00	1.75	-1.706	0.455	0.000	0.000
2- 3	183.00	1.50	-1.512	-0.076	-1.706	0.455
3- 4	200.00	2.00	-1.898	-0.681	-3.218	0.379
4- 5	207.00	1.75	-1.575	-0.792	-5.116	-0.302
5- 6	159.00	1.75	-1.650	0.630	-6.691	-1.094
6- 7	60.00	1.75	0.859	1.518	-8.341	-0.465
7- 8	55.00	1.50	0.847	1.231	-7.482	1.053
8- 9	12.00	1.25	1.211	0.262	-6.635	2.284
9- 10	33.00	1.10	0.912	0.601	-5.424	2.546
10- 11	350.00	1.50	1.464	-0.258	-4.511	3.146
11- 12	348.00	1.80	1.744	-0.372	-3.048	2.888
12- 13	330.00	1.75	1.500	-0.873	-1.304	2.516
13- 14	304.00	1.00	0.550	-0.828	0.196	1.644
14- 1	228.00	1.10	-0.746	-0.816	0.746	0.816
		21.50	0.196	-0.030		

CLOSURE = 0.199 CHAINS

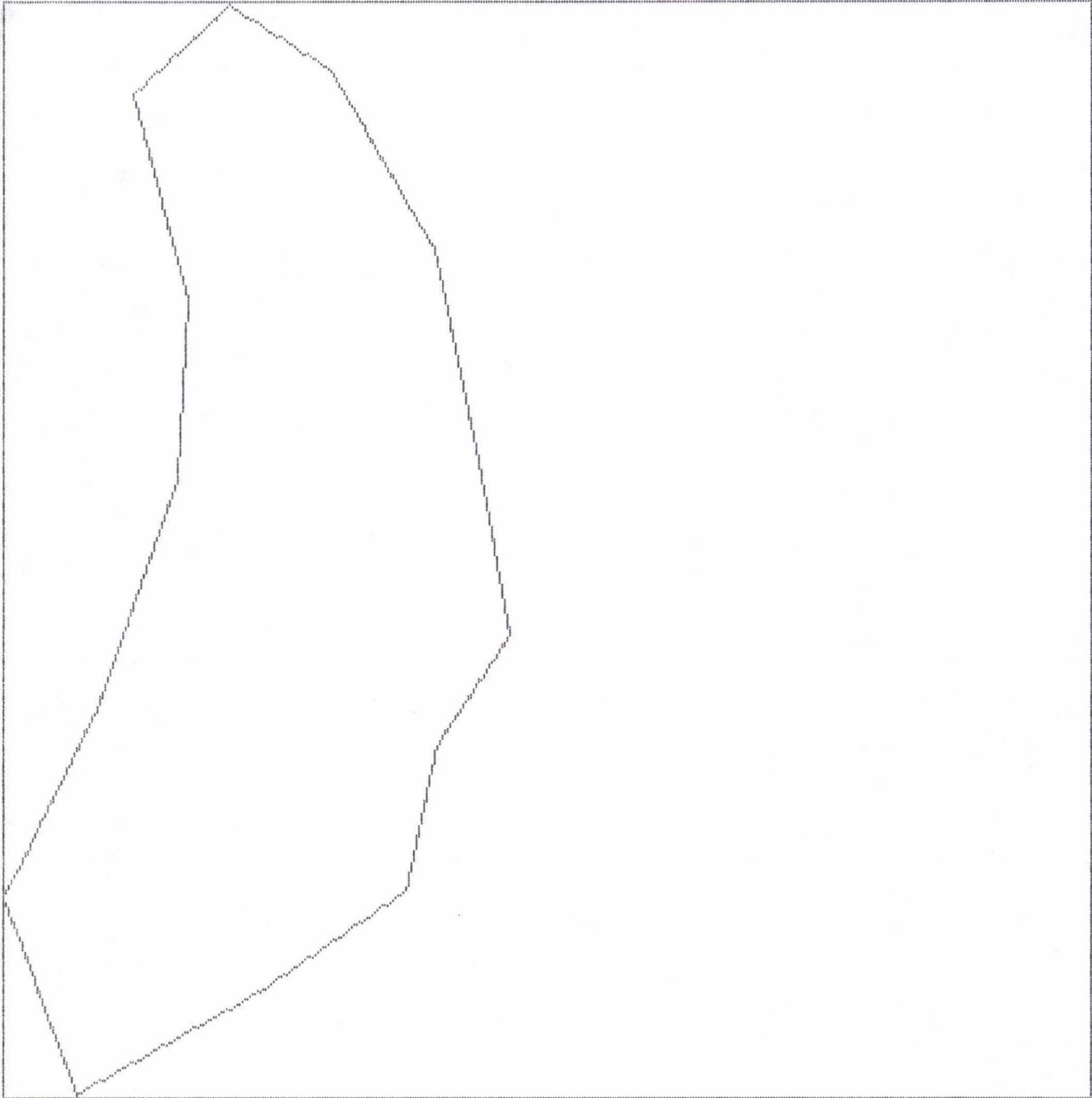
PRECISION = 1 IN 108 ( 0.9%)

CORRECTED AREA = 2.110 ACRES  
21.101 SQUARE CHAINS

UNCORRECTED AREA = 2.117 ACRES  
21.169 SQUARE CHAINS

CORRECTED MAP OUTPUT FOR: TRAIL CREEK -- UNIT 2C

North

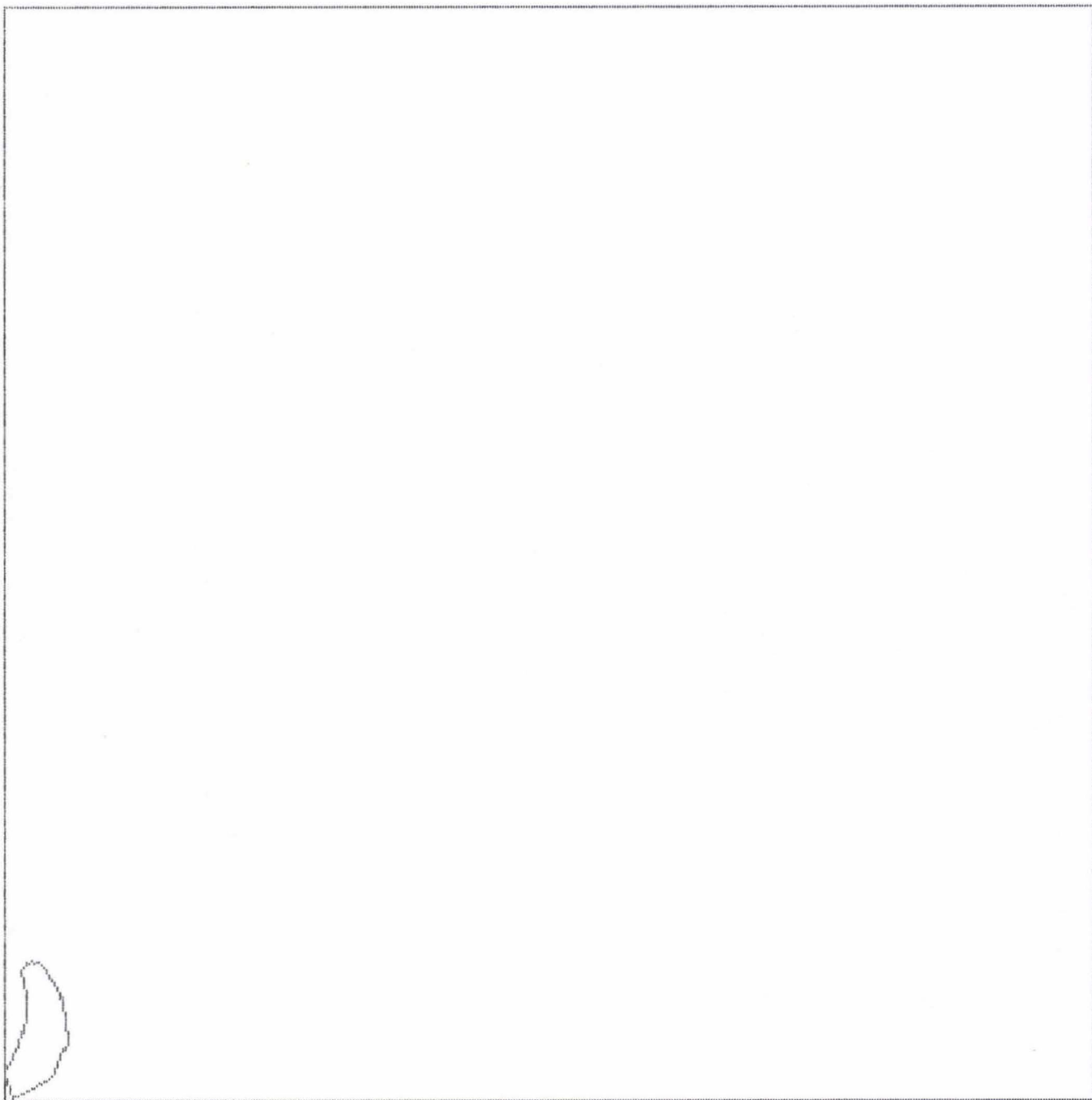


MAP SCALE: 1 : 1019  
1 INCH =

1.29 CHAINS  
84.90 FEET

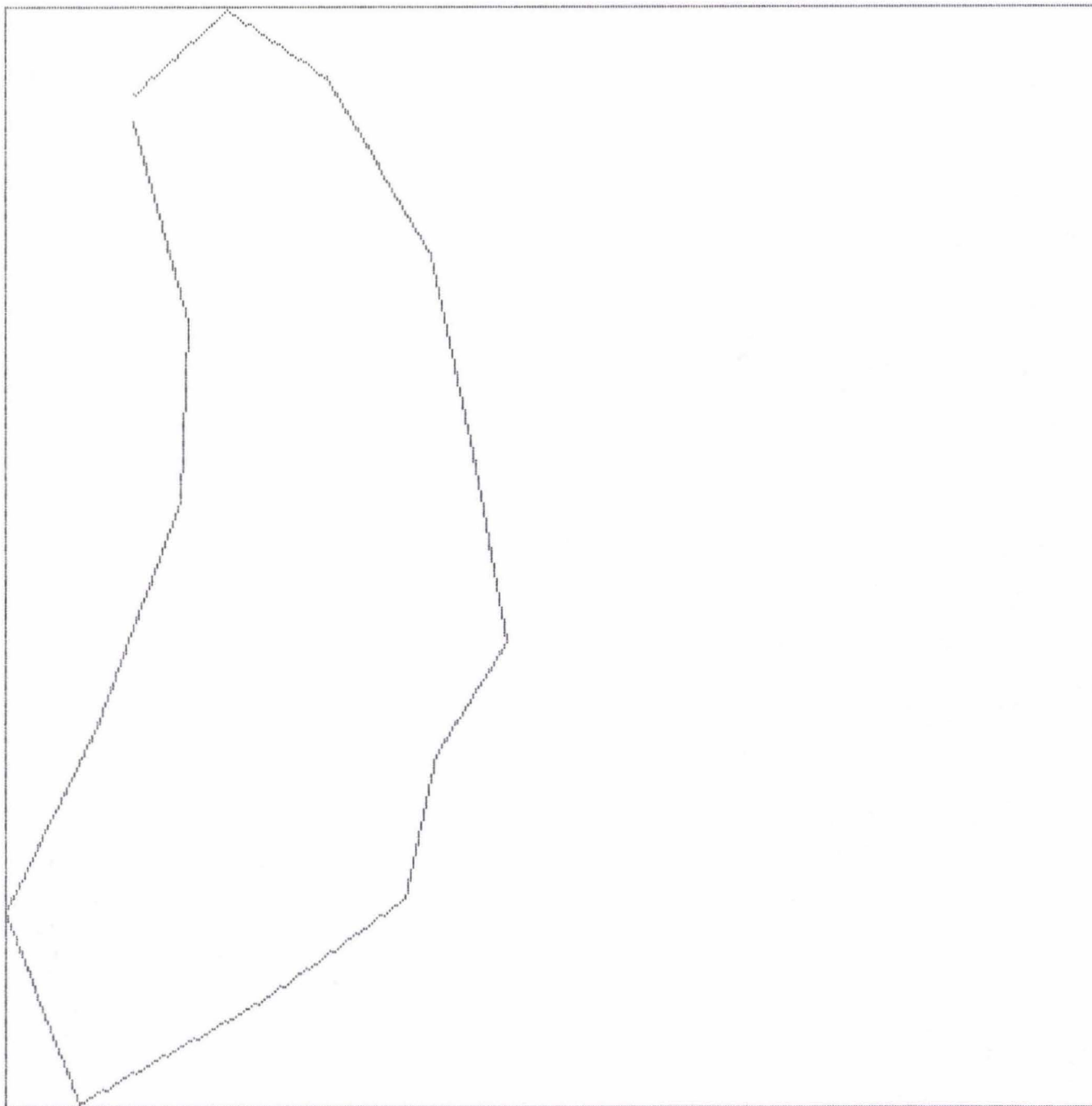
CORRECTED MAP OUTPUT FOR: TRAIL CREEK -- UNIT 2

North



MAP SCALE: 1 : 7920  
8 INCHES = 1 MILE (80 CHAINS)

North



MAP SCALE: 1 : 1040  
1 INCH =

1.31 CHAINS  
86.68 FEET

Area 2

Stand \_\_\_\_\_

Plot 1

BAF 10

BA 140

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	9.7	43	0	
LP	5.3	38	1	
LP	10	40	0	
LP	9.8	41	0	
LP	10.8	42	0	
LP	11.5	44	1	Forked Top
LP	7.9	42	1	Age 102
LP	7	<del>39</del> 39	1	
LP	7.5	41	0	
LP	8.4	46	1	
LP	8.6	45	1	
LP	10.2	44	0	
LP	8.9	46	0	
LP	9.9	45	0	

Regen 20  
 Slope 14%

Starting at Creek Crossing  $130^{\circ}$  for  
3 chains, then Due S 2 ch, Next  $180^{\circ}$   
1.5 to 2 chains next 2 plots. Then  $220^{\circ}$   
1 chain to top of sale.  
Final plot  $30^{\circ}$  3 ch near riparian area

Area 2

Stand \_\_\_\_\_

Plot 2

BAF 10

BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	9.1	32	3	
LP	5.9	30	1	
LP	8.9	30	2	
LP	9	35	0	
LP	9.5	37	1	
LP	7.7	36	2	
LP	10.2	40	2	
LP	12.2	42	1	
SF	11.8	44	0	
LP	11.1	39	2	

Approx Age 90 - 100  
Slope 12%  
Regen 10

Area 2

Stand \_\_\_\_\_

Plot 3BAF 10BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10.7	44	0	
LP	8	40	0 1	
LP	7.6	<del>37</del> 37	0	
LP	13	<del>45</del> 45	0	
LP	10.2	47	0	
SF	12.4	46	0	
LP	6.9	35	0	
LP	9.1	42	1	
LP	7.3	43	0	
LP	8.9	40	0	
LP	5.1	35	1	
LP	9.4	40	0	

Approx Age 90-100  
 Slope 8%  
 Regen 6

Area 2

Stand \_\_\_\_\_

Plot 4BAF 10BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10.7	45	0	
LP	10.5	46	0	
LP	8.6	46	0	
LP	11.5	47	0	
LP	9.2	48	0	
LP	10.6	45	1	
LP	10.5	45	1	Poor form
LP	9.9	44	0	
LP	11	45	0	
LP	10.7	46	1	

Approx Age 90-100  
 Slope 10%  
 Regen 8

Area 2

Stand \_\_\_\_\_

Plot 5

BAF 10

BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	11.5	40	0	
LP	14	42	1	
LP	13.1	41	0	
LP	11	40	1	
LP	9.8	39	1	
LP	9.6	43	2	
LP	8	38	1	
LP	10.1	40	0	
LP	12.9	44	1	

Slope 10%

App Age 90-100

Page 1

Area 2

Stand \_\_\_\_\_

Plot 6BAF 16BA 150

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	12.7	46	0	
LP	10.9	45	0	
LP	8	42	—	Dead
LP	7.1	43	0	
LP	8.5	43	0	
LP	7	43	0	
LP	8	43	0	Fork top
LP	7.8	43	1	
LP	7.2	42	0	
LP	7	42	0	
LP	8.7	45	0	
LP	5.5	39	—	Dead
LP	9.4	45	0	
LP	6.5	40	1	
LP	<del>10.4</del> 10.4	45	1	

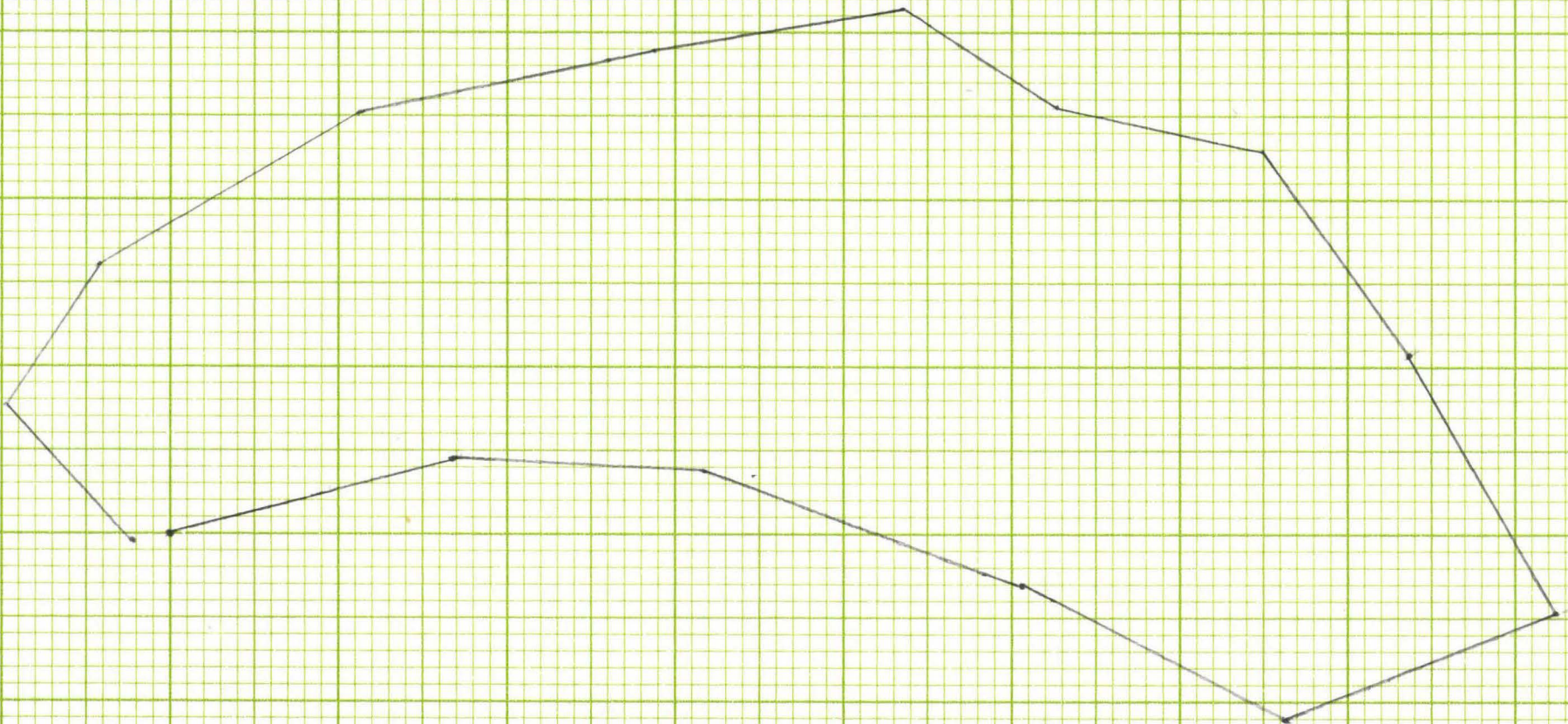
Approx Age 90-100  
 Slope 1470  
 Regen 46

<u>STA</u>	<u>Dist</u>	<u>BR</u>
1 ✓	1 3/4	165°
2 ✓	1 1/2	183°
3 ✓	2	200°
4 ✓	1 3/4	207°
5 ✓	1 3/4	159°
6 ✓	1 3/4	60°
7 ✓	1 1/2	55°
8 ✓	1 1/4	12°
9 ✓	1.1	33°
10 ✓	1 1/2	350°
11 ✓	1.8	348°
12	1 3/4	330°
13	1	304°
14	1.1	228°

Protect  
Christmas Trees  
Along Boundary  
on E side

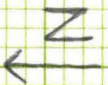
End @ Beginning





Unit 2 (c)

1 chain = 1 inch



LP Board Feet

+ 140 Trees

$$\begin{array}{r}
 7,046 \\
 \times 5 \\
 \hline
 35,230 \\
 + 9,134 \\
 \hline
 44,364 \text{ bd. ft.}
 \end{array}$$

$$\begin{array}{r}
 \div 500 = 88.73 \text{ cords} \\
 \underline{29}
 \end{array}$$

D-f Board feet

$$15 \ 2\frac{1}{2} = 10,6,218$$

$$10 \ 2 = 60$$

44,36 LP

0.24 D-f

44.60

x 2

89.20 cords

Tops

682 Trees

$$\div 30 \text{ Tops/Cord}$$

22.7

$$111.9 = 112 \text{ cords}$$

34 Cords/Acre

Trees

5:1 TM + 140 Trees 6" Top

		2 logs		1 <sup>2</sup>		2		2 <sup>2</sup>		3		3 <sup>2</sup>	
		1	2	1	2	1	2	1	2	1	2	1	2
160	8 (20)	• 1	2	∩ 6		∩ 7		∩ 3		∩ 3		-	
279	9 (31)			∩ 5		∩ 11		∩ 11		∩ 4		-	
210	10 (21)			• 1		∩ 9		∩ 8		∩ 3		-	
193	11 (13)			• 1		∩ 3		∩ 3		∩ 6		-	
132	12 (11)					• 1		∩ 6		∩ 3		-	1
DBH 91	13 (7)							∩ 3		∩ 3		-	1
42	14 (3)							• 1		• 1		-	1
30	15 (2)							• 1		-		-	1
<u>1087"</u>		<u>108 Trees</u>											
Trees (Logs)		1	(1)	13	(19.5)	31	(64)	36	(90)	23	(69)	4	(14)
Avg. DBH = 10.06"		Total logs = 257.5 ÷ 108 = 2.38 logs/tree											

Bd Ft content by log - Built by Ray

Volume - Gross

	1	1 <sup>2</sup>	2	2 <sup>2</sup>	3	3 <sup>2</sup>
8	2	3 1/2	5	6 1/2	8	-
9		3 1/2	5	6 1/2	8	-
10		3 1/2	5	7 1/2	9	-
11		4 1/2	6	9	11	-
12			8	10 1/2	12	14 1/2
13				11 1/2	14	17 1/2
14				12 1/2	18	19 1/2
15				15 1/2	-	21 1/2

	<u>Trees</u>					
	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>
8		7	7	3	3	-
9		5	11	11	4	-
10		1	9	8	3	-
11		1	3	3	6	-
12			1	6	3	1
13				3	3	1
14				1	1	1
15						1

	<u>Cubic Feet</u>			4" top	
8	44	55	28	33	-
9	40	109	132	56	-
10	<del>10</del>	108	112	51	-
11	12	42	51	120	-
12	-	17	120	69	27
13	-	-	69	81	31
14	-	-	27	31	36
15	-	-	-	-	41
	<u>106</u>	<u>331</u>	<u>539</u>	<u>441</u>	<u>135</u>

$$\begin{array}{r}
 = 1,552 \\
 \times 5 \\
 \hline
 7,760 \\
 + 2,012 \\
 \hline
 9,772 \text{ ft}^3
 \end{array}$$

$$1552 \div 108 \times \frac{140}{(4.37)} =$$

118 Cords

Board Feet

6" top

	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>
8	161	217	114	138	-
9	155	451	561	240	-
10	40	468	512	228	-
11	50	195	240	564	-
12	-	79	576	342	131
13	-	-	342	405	155
14	-	-	134	158	181
15	-	-	-	-	209
	<u>406</u>	<u>1,410</u>	<u>2,479</u>	<u>2,075</u>	<u>676</u>

= 7,046 /

x 5  
35,230

$7,046 \div 108 \times 140 =$

+ 9,134  
44,364 bd. ft.  
98 cord

Area 4 Stand LP Plot All

BAF 5.1 Tm BA       
Df 100%

Species	DBH	Ht.	DMR	Remarks
LP	8	30		Trail Creek Unit D (4)
LP	8	30		
LP	10	32		
LP	10	<del>32</del> 32		
LP	9	32		
LP	13	40		
Df	15	40		
Df	10	32		
LP	10	2		
LP	9	2		
LP	12	2 1/2		
LP	9	2		
LP	9	2		
LP	8	1		
LP	11	1 1/2		
LP	9	2		
LP	9	1 1/2		
LP	10	2 1/2		
LP	8	1 1/2		
LP	10	2		
LP	11	2		
LP	10	1 1/2		
LP	10	2		
LP	9	2 1/2		

Area 4 Stand \_\_\_\_\_ Plot all

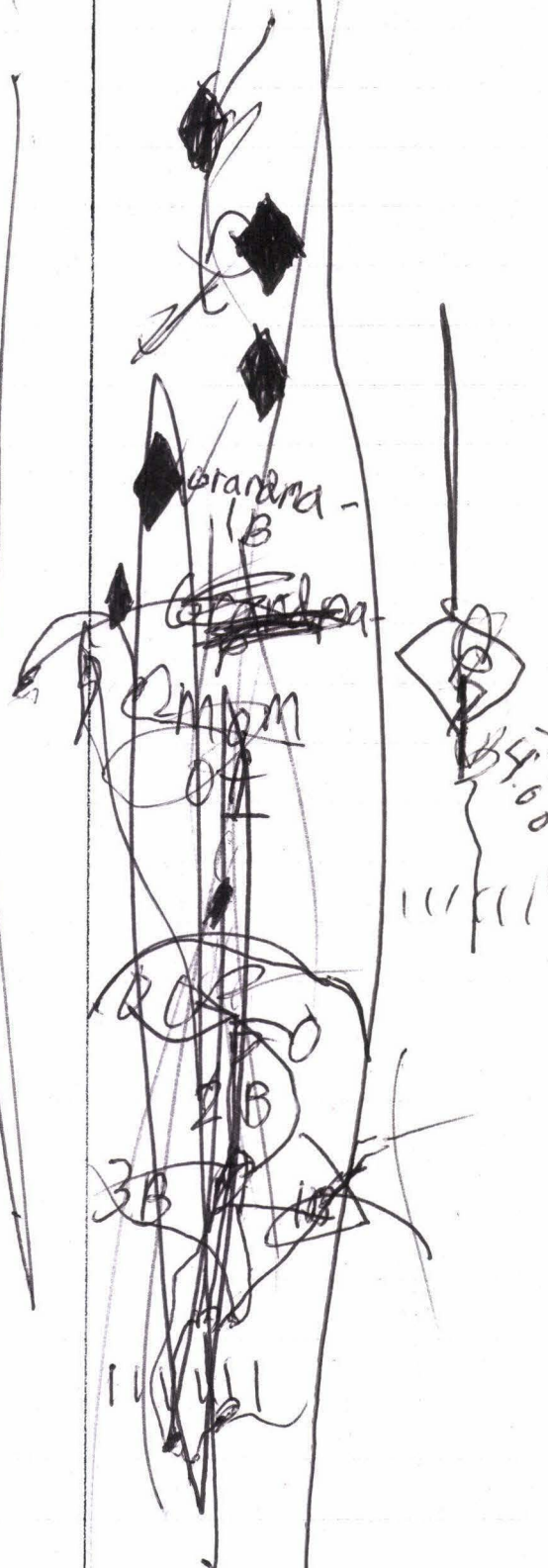
BAF \_\_\_\_\_ BA \_\_\_\_\_

Species	DBH	Ht.	DMR	Remarks
LP	12	2 1/2		
LP	12	2 1/2		
LP	10	2 1/2		
LP	10	2		
LP	10	2		
LP	11	2		
LP	11	2 1/2		
LP	10	1 1/2		
LP	10	2 1/2		
LP	11	<del>2 1/2</del> 3		
LP	11	2 1/2		
LP	11	3		
LP	11	2 1/2		
LP	11	2 1/2		
LP	11	2 1/2		
LP	11	2 1/2		
LP	11	3		
LP	11	2 1/2		
LP	11	2 1/2		
LP	11	2		
LP	13	<del>3</del> 3		
LP	13	3		
LP	11	2 1/2		
LP	11	3		
LP	11	2 1/2		

Calson Blandre 2005

Area 4 Stand BA Plot 3  
 BAF BA

Species	DBH	Ht.	DMR Species	DBH	Ht.	Remarks
LP	8	3				
LP	12	2 1/2				
LP	8	2				
LP	12	3 1/2				
CP	8	2				
LP	13	2 1/2				
LP	10	2 1/2				
LP	10	3				
LP	10	3				
LP	13	1 1/2				
LP	10	2 1/2				
LP	10	2 1/2				
LP	12	1 1/2				
LP	12	2				
LP	10	2 1/2				
LP	10	2				
LP	10	2				
LP	12	1 1/2				
LP	11	2				
LP	11	2 1/2				
LP	13	3				
LP	10	2 1/2				
LP	10	2				
LP	8	2				
LP	15	3 1/2				
LP	15	3 1/2				
LP	9	2 1/2				
LP	12	3				



Area \_\_\_\_\_

Stand \_\_\_\_\_

Plot \_\_\_\_\_ (4)

BAF \_\_\_\_\_

BA \_\_\_\_\_

Species	DBH	Ht.	DMR	Remarks
LP	14	3		
LP →	10	2 1/2		
LP	d	2		
LP	14	3 1/2		
LP	9	1 1/2		
LP	8	2		
LP	11	3		
LP	12	3		
LP	8	1 1/2		
LP	13	3		
LP	d	1 1/2		
LP	12	2 1/2		
LP	14	2 1/2	LP	3
<del>LP</del>	<del>14</del>	<del>2 1/2</del>		
LP	10	2 1/2	LP	3:00 11:00
LP	9	2		
LP	9	2		
LP	12	3		
LP	8	1 1/2		
LP	d	3		
LP	d	2		
LP	d	2 1/2		

Area \_\_\_\_\_

Stand \_\_\_\_\_

Plot \_\_\_\_\_ 5

BAF \_\_\_\_\_

BA \_\_\_\_\_

Species	DBH	Ht.	DMR	Remarks
LP	10	3		
LP	9	3		
LP	9	2 1/2		
LP	9	3		
LP	8	1 1/2		
LP	8	2 1/2		
LP	10	3	1	



140  
 135  
 not

Trees  
 marked

♀ = creek crossing

Protect SA Fir ~~tree~~ A11

Blue Flag bag - paint next

TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: TRAIL CREEK THREE UNIT D

COURSE	DEGREE (AZIMUTH)	LENGTH (CHAINS)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	92.00	2.00	-0.095	2.017	0.000	0.000
2- 3	75.00	2.00	0.493	1.950	-0.095	2.017
3- 4	83.00	1.60	0.175	1.603	0.398	3.967
4- 5	202.00	1.90	-1.785	-0.695	0.573	5.569
5- 6	236.00	1.70	-0.972	-1.394	-1.212	4.875
6- 7	145.00	1.10	-0.915	0.641	-2.184	3.481
7- 8	66.00	2.00	0.789	1.845	-3.099	4.122
8- 9	82.00	1.70	0.215	1.699	-2.310	5.967
9- 10	9.00	2.40	2.341	0.397	-2.094	7.666
10- 11	120.00	0.60	-0.307	0.525	0.246	8.063
11- 12	144.00	2.30	-1.889	1.373	-0.061	8.588
12- 13	65.00	1.80	0.738	1.648	-1.951	9.961
13- 14	40.00	2.50	1.884	1.630	-1.212	11.609
14- 15	356.00	1.20	1.182	-0.073	0.672	13.238
15- 16	293.00	2.60	0.984	-2.370	1.854	13.165
16- 17	218.00	2.00	-1.601	-1.213	2.838	10.796
17- 18	260.00	2.00	-0.372	-1.951	1.237	9.583
18- 19	293.00	2.00	0.757	-1.823	0.865	7.631
19- 20	274.00	2.00	0.115	-1.977	1.621	5.808
20- 21	262.00	2.00	-0.303	-1.962	1.736	3.831
21- 22	260.00	2.00	-0.372	-1.951	1.433	1.869
22- 1	176.00	1.05	-1.060	0.083	1.060	-0.083
		40.45	0.503	-0.367		

CLOSURE = 0.622 CHAINS

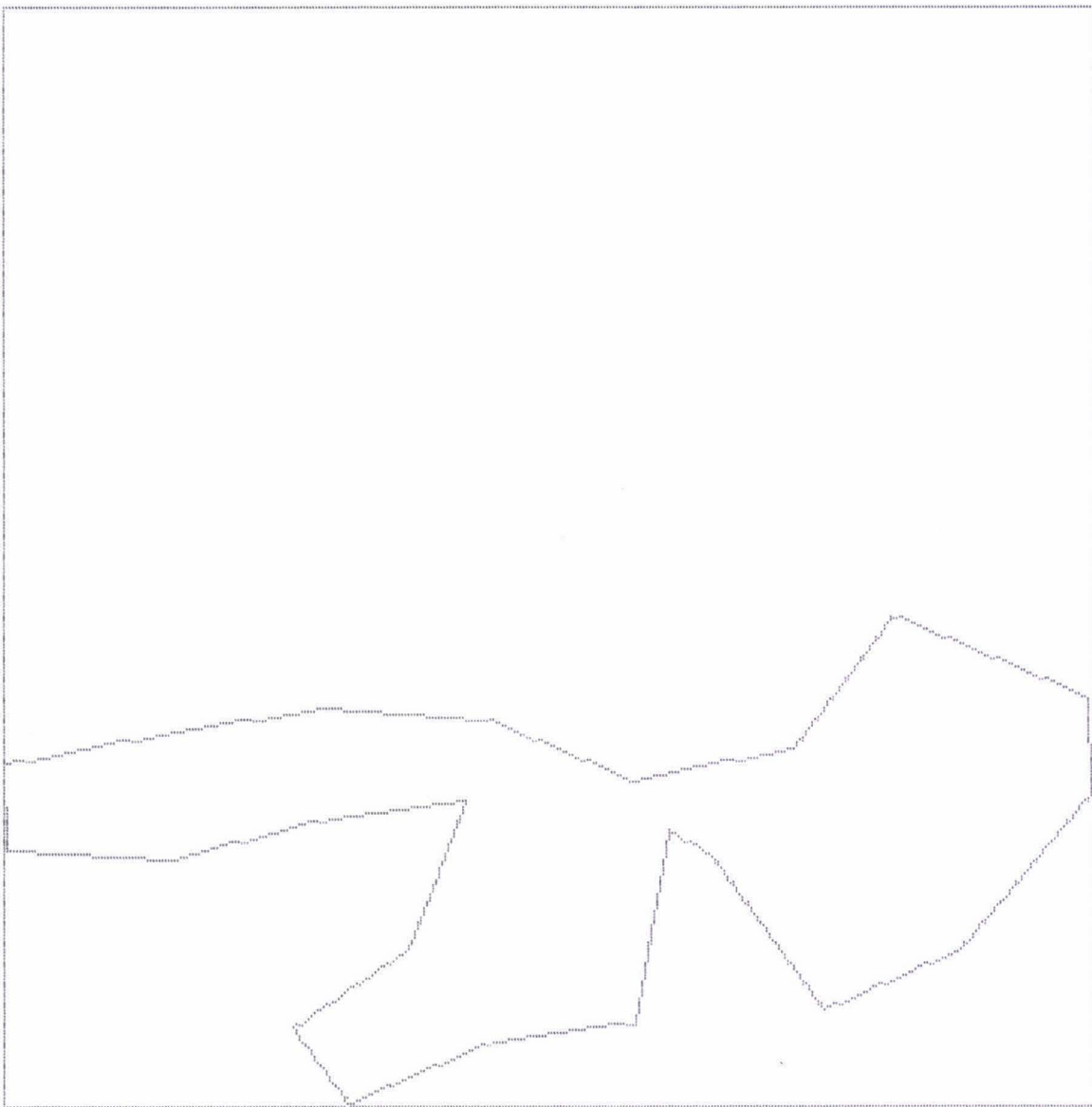
PRECISION = 1 IN 65 ( 1.5%)

CORRECTED AREA = 3.286 ACRES  
32.856 SQUARE CHAINS

UNCORRECTED AREA = 3.574 ACRES  
35.743 SQUARE CHAINS

CORRECTED MAP OUTPUT FOR: TRAIL CREEK THREE UNIT D

North



MAP SCALE: 1 : 1742  
1 INCH =

2.20 CHAINS  
145.14 FEET

# Trail Creek #3

## Unit D

<u>Start</u>	<u>Bearing</u>	<u>Chains</u>
1	92°	2
2	75°	1.1
3	83°	1.6
4	202°	1.9
5	236°	1.7
6	145°	1.1
7	66°	2
8	82°	1.7
9	90	2.4
10	120°	.6
11	144	2.3
12	<del>60</del> 65°	1.80
13	40°	2.5
14	356°	1.2
15	293°	2.6
16	218°	2
17	260°	2
18	293°	2
19	274°	2
20	262	2
21	260	2
22	176°	1.05 end

STAND: **unit e**

PER ACRE STAND SUMMARY  
ALL SPECIES

	DBH	HEIGHT CLASS											TOTAL	
		20	30	40	50	60	70	80	90	100	110	120		
STEMS	4	0	0	23	0	0	0	0	0	0	0	0	0	23
CUVOL	4	0	0	58	0	0	0	0	0	0	0	0	0	58
SCRIB	4	0	0	328	0	0	0	0	0	0	0	0	0	328
STEMS	6	0	7	40	47	6	0	0	0	0	0	0	0	100
CUVOL	6	0	23	204	309	55	0	0	0	0	0	0	0	590
SCRIB	6	0	87	820	1259	227	0	0	0	0	0	0	0	2393
STEMS	8	0	0	15	113	40	0	0	0	0	0	0	0	168
CUVOL	8	0	0	107	1110	510	0	0	0	0	0	0	0	1727
SCRIB	8	0	0	437	4613	2139	0	0	0	0	0	0	0	7190
STEMS	10	0	0	0	21	32	0	0	0	0	0	0	0	53
CUVOL	10	0	0	0	285	575	0	0	0	0	0	0	0	861
SCRIB	10	0	0	0	1198	2451	0	0	0	0	0	0	0	3649
STEMS	12	0	0	2	0	23	0	0	0	0	0	0	0	25
CUVOL	12	0	0	38	0	561	0	0	0	0	0	0	0	599
SCRIB	12	0	0	162	0	2508	0	0	0	0	0	0	0	2670
STEMS	14	0	0	0	2	2	0	0	0	0	0	0	0	3
CUVOL	14	0	0	0	46	55	0	0	0	0	0	0	0	101
SCRIB	14	0	0	0	210	254	0	0	0	0	0	0	0	464
-----														
TOTAL														
STEMS	0	0	7	80	182	103	0	0	0	0	0	0	0	373
CUVOL	0	0	23	407	1750	1756	0	0	0	0	0	0	0	3935
SCRIB	0	0	87	1748	7280	7579	0	0	0	0	0	0	0	016695

44/Acre

80 ft<sup>3</sup>

49.2 cds/A

~~7.761 Acres~~

382 cords

STAND: unit e

PER ACRE SUMMARY

STEMS	BA	DBH	HT	AGE
373	164	9.0	52	100

CRUISE SUMMARY

BAF USED = 10 PTS SMPLED = 5      AVG. # TREES/PT. = 16.4

85 = 463

\* 852 46.29

7.7 Acres less 0.8A aspen

90 ft<sup>3</sup>

x 7.0

324.1

less 10% defect

292

43.7 cds/A.

~~7.761 Acres~~

339 cords

TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: TRAIL CREEK -- UNIT E

COURSE	DEGREE (AZIMUTH)	LENGTH (CHAINS)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	191.00	1.42	-1.394	-0.278	0.000	0.000
2- 3	229.00	1.33	-0.872	-1.011	-1.394	-0.278
3- 4	214.00	2.00	-1.658	-1.129	-2.266	-1.289
4- 5	197.00	1.30	-1.243	-0.387	-3.924	-2.418
5- 6	214.00	0.94	-0.779	-0.531	-5.167	-2.805
6- 7	231.00	2.00	-1.258	-1.565	-5.946	-3.336
7- 8	161.00	0.66	-0.624	0.211	-7.205	-4.901
8- 9	93.00	0.76	-0.040	0.755	-7.829	-4.689
9- 10	119.00	1.17	-0.567	1.017	-7.868	-3.935
10- 11	126.00	0.63	-0.370	0.506	-8.436	-2.917
11- 12	78.00	1.56	0.325	1.518	-8.806	-2.411
12- 13	115.00	1.72	-0.727	1.550	-8.481	-0.893
13- 14	109.00	0.89	-0.290	0.837	-9.208	0.656
14- 15	38.00	1.39	1.095	0.848	-9.498	1.493
15- 16	56.00	1.28	0.716	1.054	-8.402	2.341
16- 17	76.00	2.00	0.484	1.930	-7.686	3.396
17- 18	44.00	0.62	0.446	0.427	-7.202	5.326
18- 19	115.00	1.28	-0.541	1.153	-6.756	5.753
19- 20	103.00	0.93	-0.209	0.901	-7.297	6.906
20- 21	129.00	1.53	-0.963	1.181	-7.506	7.808
21- 22	80.00	1.06	0.184	1.038	-8.469	8.989
22- 23	1.00	1.58	1.580	0.019	-8.285	10.027
23- 24	325.00	1.95	1.598	-1.129	-6.705	10.046
24- 25	293.00	2.00	0.782	-1.852	-5.107	8.917
25- 26	306.00	2.00	1.176	-1.629	-4.325	7.066
26- 27	335.00	1.33	1.206	-0.569	-3.150	5.437
27- 28	340.00	1.25	1.175	-0.434	-1.944	4.868
28- 29	310.00	1.85	1.189	-1.427	-0.769	4.434
29- 1	262.00	3.02	-0.420	-3.007	0.420	3.007
		41.45	-0.004	0.220		

CLOSURE = 0.220 CHAINS

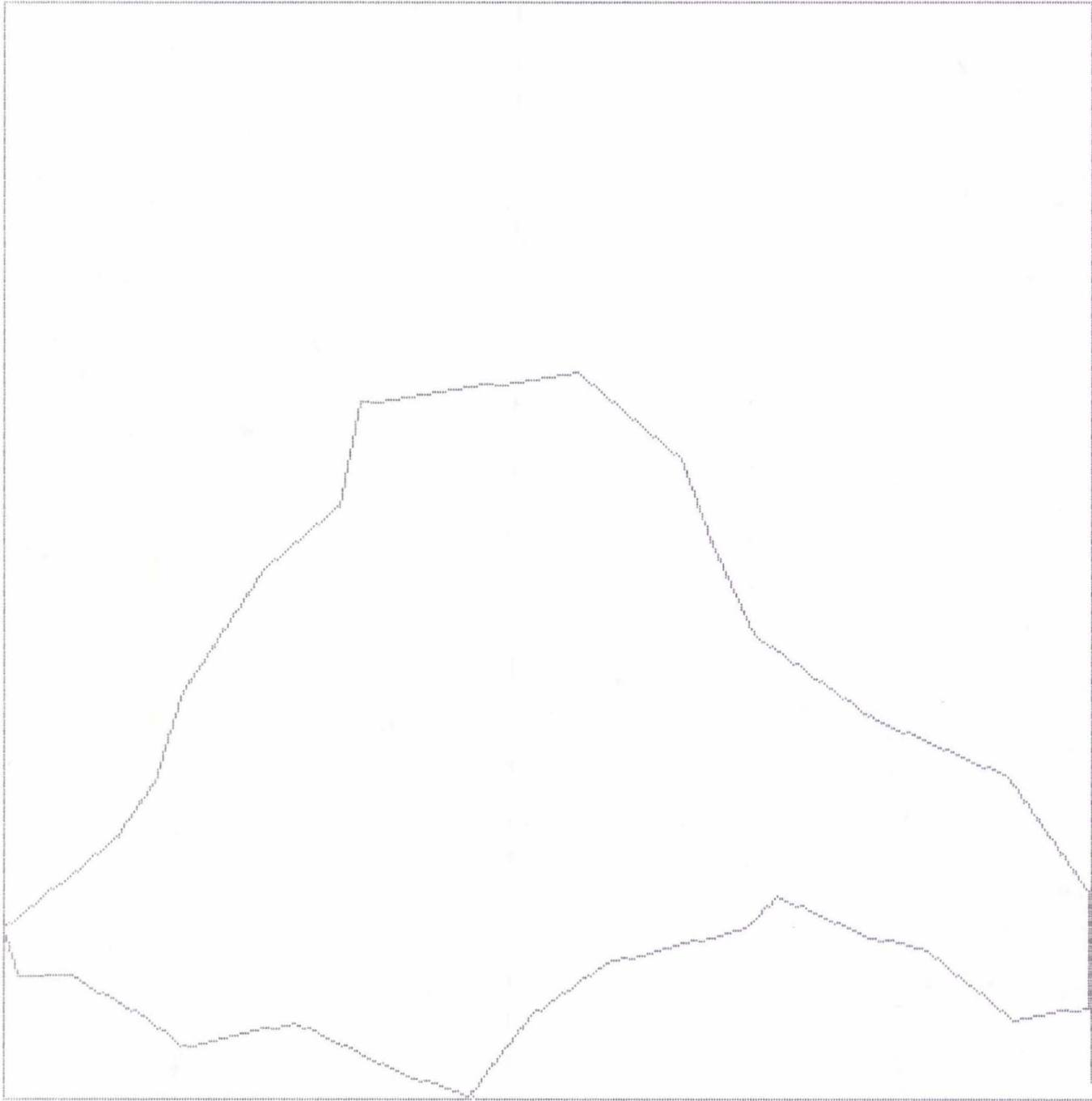
PRECISION = 1 IN 188 ( 0.5%)

CORRECTED AREA = 7.761 ACRES  
77.614 SQUARE CHAINS

UNCORRECTED AREA = 7.862 ACRES  
78.620 SQUARE CHAINS

CORRECTED MAP OUTPUT FOR: TRAIL CREEK -- UNIT E

North

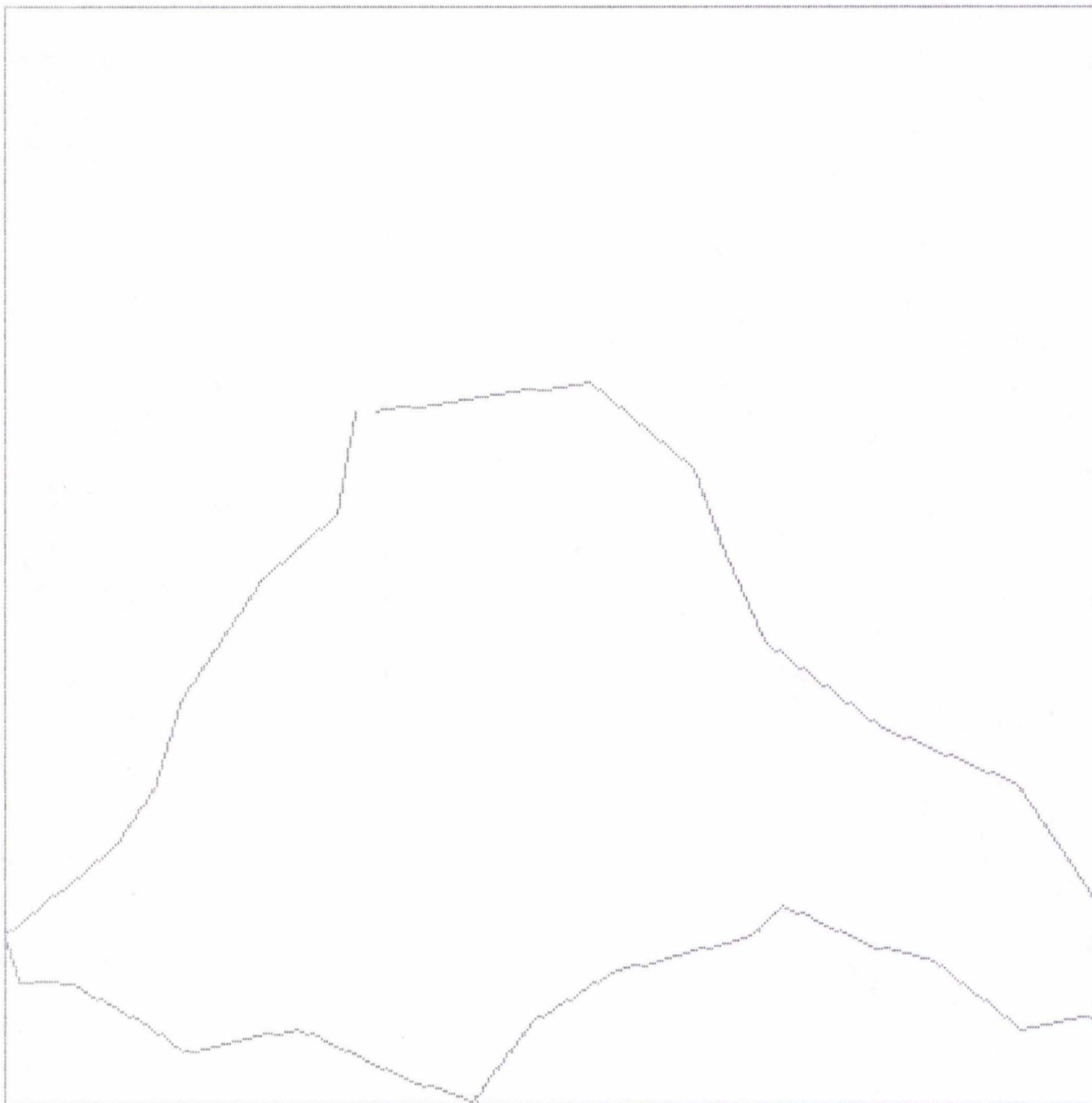


MAP SCALE: 1 : 1690  
1 INCH =

2.13 CHAINS  
140.80 FEET

UNCORRECTED MAP OUTPUT FOR: TRAIL CREEK -- UNIT E

North



MAP SCALE: 1 : 1703  
1 INCH =

2.15 CHAINS  
141.88 FEET

Area F

Stand LP

Plot 1

BAF 10

BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	12.4	60		
	13.2	60		
	10.0	60		Twin/Fork
	13.2	60		
	12.2	60		
	14.3	61		
	10.6	60		Control F-5
	11.8	60		G
	12.3	60		
	12.4	60		

Area E

Stand LP

Plot 2

BAF 10

BA 130

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
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LP →

↓

9.3		50		
10.2		60		
9.5		50		
12.7		60		
11.8		60		
6.8		40		
13.4		60		
9.6		(48) 50		
10.3		50		
8.2		50		
10.8		60		
8.3		50		
10.5		50	(54)	

Area     E    

Stand           

Plot     3    

BAF     10    

BA     160    

Species      DBH      Ht.      DMR      Remarks

LP

9.1	40 <del>50</del> 46
7.8	40
5.7	40
8.3	50
8.1	50
14.7	50
10.0	60
7.2	50
9.5	50
7.7	40
9.9	50
<del>8.9</del> 9.2	50
7.8	40
8.4	40
10.1	50
9.2	50 (52)

Area        EStand LPPlot 4BAF 10BA 220SpeciesDBHHt.DMRRemarks

LP

9.6

50

Fork

7.7

50

9.7

60

8.6

50

9.2

50

8.7

50

9.2

60

7.7

40

8.1

40

8.7

50

10.0

60

9.6

60

Commande Rest

9.4

50

8.0

50

10.0

50

13.8

60

9.4

60

8.7

80

8.1

50

Fork

8.7

60

7.7

50

9.3

50 (48)

Area \_\_\_\_\_

Stand BPlot 5BAF 10BA 210SpeciesDBHHt.DMRRemarks

LP

7.1

40

12.4

40

12.0

60

11.8

60

8.0

60

7.7

60

7.0

50

10.4

60

6.9

50

9.7

60

8.3

50

5.6

40

9.1

60

7.7

50

10.8

50

9.3

50

9.0

50

8.3

50

7.0

30

10.2

50

7.6

50 (52)

Fork

Fork  
w/c Root  
Fork  
Fork  
Fork



STAND: AREA F - TRAIL CREEK SALE #3  
 PER ACRE STAND SUMMARY  
 ALL SPECIES

	DBH	HEIGHT CLASS											TOTAL	
		20	30	40	50	60	70	80	90	100	110	120		
STEMS	6	0	47	54	5	0	0	0	0	0	0	0	0	107
CUVOL	6	0	102	177	31	0	0	0	0	0	0	0	0	310
SCRIB	6	0	304	681	125	0	0	0	0	0	0	0	0	1110
STEMS	8	0	11	33	29	0	0	0	0	0	0	0	0	73
CUVOL	8	0	54	220	262	0	0	0	0	0	0	0	0	535
SCRIB	8	0	215	832	1083	0	0	0	0	0	0	0	0	2130
STEMS	10	0	3	15	24	9	0	0	0	0	0	0	0	51
CUVOL	10	0	19	159	340	166	0	0	0	0	0	0	0	685
SCRIB	10	0	79	664	1430	701	0	0	0	0	0	0	0	2874
STEMS	12	0	0	0	7	5	0	0	0	0	0	0	0	12
CUVOL	12	0	0	0	132	121	0	0	0	0	0	0	0	253
SCRIB	12	0	0	0	557	536	0	0	0	0	0	0	0	1093
STEMS	14	0	0	0	0	1	0	0	0	0	0	0	0	1
CUVOL	14	0	0	0	0	39	0	0	0	0	0	0	0	39
SCRIB	14	0	0	0	0	182	0	0	0	0	0	0	0	182
<hr/>														
TOTAL		0	61	102	66	15	0	0	0	0	0	0	0	244
CUVOL		0	175	556	765	326	0	0	0	0	0	0	0	1822
SCRIB		0	597	2177	3196	1418	0	0	0	0	0	0	0	7388

= 22.78

~~80 ft<sup>3</sup>/cord~~

x 2.7 A.

STAND: AREA F - TRAIL CREEK SALE #3  
 PER ACRE SUMMARY

STEMS	BA	DBH	HT	AGE
244	93	8.3	44	100

= 61.5 cords

CRUISE SUMMARY

BAF USED = 10 PTS SMPLED = 7      AVG. # TREES/PT. = 9.3

1822 ÷ 85 = 21.4

x 2.7 A  


---

 57.78

x  
 .9  


---

 52.002

85 ft<sup>3</sup>/cord = 21.44

x 2.7 = 59 cords

90 ft<sup>3</sup>/cord = 20.2 cords/Acre

x 2.7 A

= 54.5 cords

TRAVERSE COMPUTATION AND ADJUSTMENT (COMPASS RULE)

FOR: TRAIL CREEK #3

COURSE	DEGREE (AZIMUTH)	LENGTH (CHAINS)	BALANCED		COORDINATE	
			LAT	DEP	NORTH	EAST
1- 2	196.00	2.00	-1.731	-0.409	0.000	0.000
2- 3	188.00	2.00	-1.789	-0.136	-1.731	-0.409
3- 4	103.00	1.25	-0.162	1.307	-3.520	-0.546
4- 5	76.00	2.00	0.675	2.083	-3.682	0.761
5- 6	72.00	0.90	0.364	0.920	-3.006	2.844
6- 7	148.00	0.70	-0.527	0.421	-2.642	3.764
7- 8	234.00	0.60	-0.295	-0.443	-3.169	4.184
8- 9	312.00	0.70	0.535	-0.470	-3.464	3.741
9- 10	232.00	1.70	-0.884	-1.219	-2.929	3.271
10- 11	291.00	0.90	0.409	-0.776	-3.813	2.052
11- 12	252.00	1.20	-0.256	-1.056	-3.404	1.276
12- 13	185.00	1.20	-1.081	-0.019	-3.660	0.220
13- 14	116.00	2.40	-0.822	2.328	-4.741	0.200
14- 15	89.00	0.70	0.079	0.750	-5.563	2.528
15- 16	104.00	2.00	-0.292	2.083	-5.484	3.277
16- 17	86.00	2.60	0.430	2.778	-5.776	5.360
17- 18	318.00	1.80	1.510	-1.077	-5.346	8.138
18- 19	300.00	0.80	0.477	-0.636	-3.836	7.062
19- 20	234.00	1.60	-0.787	-1.181	-3.359	6.426
20- 21	7.00	1.60	1.741	0.309	-4.147	5.245
21- 22	276.00	2.00	0.400	-1.847	-2.405	5.553
22- 23	315.00	1.70	1.365	-1.081	-2.005	3.706
23- 24	268.00	1.20	0.073	-1.114	-0.640	2.625
24- 1	284.00	1.68	0.567	-1.511	-0.567	1.511
		35.23	-3.372	-2.501		

CLOSURE = 4.198 CHAINS

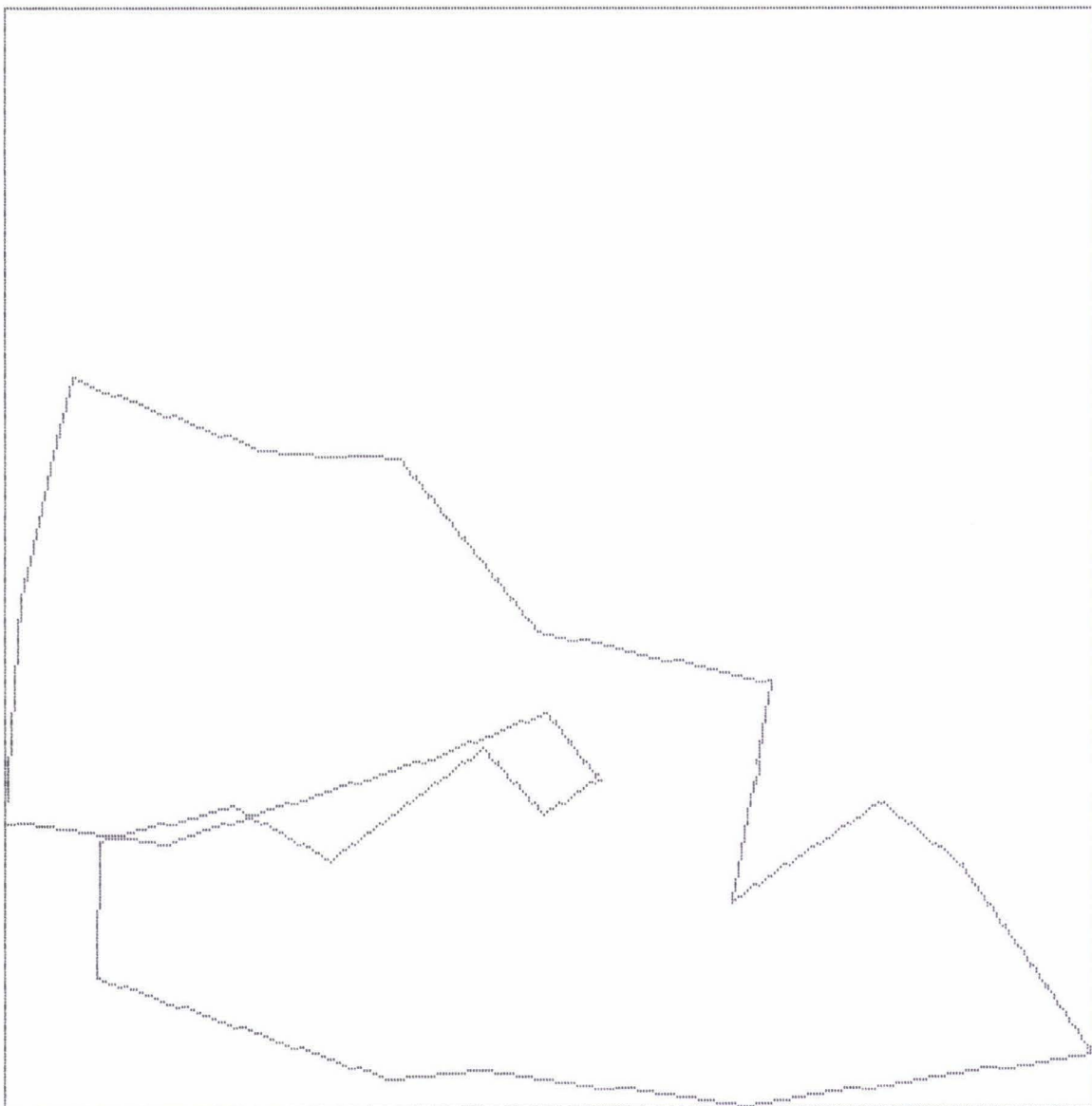
PRECISION = 1 IN 8 ( 11.9%)

CORRECTED AREA = 2.713 ACRES  
27.134 SQUARE CHAINS

UNCORRECTED AREA = 1.002 ACRES  
10.024 SQUARE CHAINS

CORRECTED MAP OUTPUT FOR: TRAIL CREEK #3

North



MAP SCALE: 1 : 1289

1 INCH =

1.63 CHAINS

107.40 FEET

Trail Creek

Area ~~S~~F

6/1/92

start	Bearing	Dist in Chain
1	<u>196°</u>	<u>2</u>
2	188°	2 chains
2	103°	1.25 <del>chains</del>
3	76°	2 chains
4	72°	9 chains
5	148°	7 chains
6	234°	6 chains
7	312°	7 chains
8	232°	1.7 chains
9	291°	9 chains
10	252°	1.2 chains
11	185°	1.2 chains
17	116°	2.4 chains
13	89°	1.7 chains
14	164°	2. <del>2</del> chains
15	86°	2. <del>2</del> chains
16	58°	1.45 chains
17	16°	2.5 chains
18	318°	1.8 chains
19	300°	8 chains
20	234°	1.6 chains
21	7°	1.6 chains
22	276°	2. <del>2</del> chains
23	315°	1.7 chains
24	268°	1.2 chains
24	284°	1.68 chains

Area BF

Stand LP

Plot 1

BAF 10

BA 70

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6"	40		
	6"	40		
	7"	40		
	6	40		
	7	40		
	6	40		
	9	40		



Area GF

Stand LP

Plot 3

BAF 10

BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	11	50		
	11	60		
	12	60		
	9	40		
	11	60		
	11	50		
	12	50		
	6	30		Dead top
	12	50		

Area AF

Stand LP

Plot 4

BAF 10

BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	11	60 (67)		
↓	13	50		Twin top
	9	50		
	6	30		
↓	13	60		
ES	9	40		
LP	11	50		
↓	12	60		
	10	60		
	8	50		
	11	50		Dead top
↓	10	50		

Area GF

Stand \_\_\_\_\_

Plot 5

BAF 10

BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8	50 (53)		
↓	10	50		
↓	7	50		
↓	8	50 50		
↓	9	50		
↓	10	50		
↓	9	50		
↓	8	40		
↓	10	40		
ES	12	50		
LP	10	50		
↓	15	60		

Area GF

Stand LP

Plot 6

BAF 10

BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	40 (42)		
↓	8	40		
	6	40		
	6	30		
	9	30		
	7	30		
	8	30		Twin-top
	6	30		
	7	30		
	8	40		
	10	30		
	10	40		

Area GF

Stand \_\_\_\_\_

Plot 7

BAF 10

BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10	40 (45)		
↓	8	30		Gall Rust
	10	40		
	10	40		
	11	40		
	10	50		
	8	40		
	9	40		
↓	—	—		
PP	9	40		Twin top

