

"Rite in the Rain"

WEATHERPROOF



# TRANSIT

NOTEBOOK NO. 301

*John W. Thayer*

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\$ 22<sup>5</sup>

## DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING Roadway of any Width. Side Slopes $1\frac{1}{2}$ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40



Trap site # 2

Above first Bench

Habitat Type - AGSP/POSA.

others - BRTF

Soil: residual / rocky

Slope: 45%

Aspect: 220°

25 live traps

May 29, 1986 Trap Night #1

Weather

Temp:

30 cloud: 0

1/2 Moon

key

no catch = /
catch = O
empty snare = Δ
escaped = ●
dead = X

1. /

12. /

23. /

2. /

13. /

24. /

3. /

14. /

25. /

4. /

15. /

5. /

16. /

6. /

17. /

7. /

18. /

8. /

19. /

9. /

20. O

10. /

21. /

11. O

22. /

<u>Trap #</u>	<u>Species</u>	<u>Sex/Age</u>	<u>toeclip</u>	<u>Comments</u>
20	PM	♂, A	LR	
11	PM	♀, A	LR	Nursing

Trap site # 2

Day # 2, May 30

Temp:

% Cloud: 0

1. /

21. /

2. /

22. /

3. /

23. /

4. /

24. /

5. /

25. /

6. /

7. /

8. /

9. /

10. /

11. /

12. /

13. /

14. /

15. /

16. /

17. /

18. /

19. /

20. /

Trap Site # 3

Sagebrush flat - Brush Cr.

Habitat Type - ARTR / FEID

other plants - ACMI / KOCA

Soil: Alluvial

Slope: 5%

Aspect 310°

25 live traps

May 30, 1986

Trap Night # 1

Temp:

% cloud: 0

1/2 moon

12. /

25. /

13. /

1. /

14. /

2. /

15. /

3. /

16. /

4. /

17. /

5. /

18. /

6. /

19. /

7. /

20. /

8. /

21. /

9. /

22. /

10. /

23. /

11. /

24. /

Trap Site # 4

Gabion-Riparian

Habitat Type - PSME / SYAL

Other plants - SPBE, ARCO, BERE, *Malva*

ELGL, PHLE, ACG, Betula, PHMA, DITR

Soil - Alluvial

12. /

Slope - 0%

13. /

Aspect - 145°

14. /

25' live traps

15. /

16. /

June 10, 1986

17. /

Trap Night # 1

18. /

Temp. 68°, 37°

19. /

% Cloud - 0

20. /

21. /

22. /

23. 0

24. /

25. /

26. /

27. /

28. /

29. /

30. /

31. /

32. /

33. /

34. /

35. /



#-Top #  
23

Species  
PM

Sex/Age  
A

teclip  
LR

comments



Trap Site #3

Sagebrush Flat

May 31, 1986

Trap night #2

Temp:

% Cloud: 0

1. / 20. /

2. / 21. /

3. / 22. /

4. / 23. /

5. / 24. /

6. / 25. /

7. /

8. /

9. /

10. /

11. /

12. /

13. /

14. /

15. /

16. /

17. /

18. /

19. /

Trap site # 4 Gabon Riparian

June 11<sup>th</sup>

trap night #2

Weather

Temp:

% cloud: 0%

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

Trap site # 4 Gabon Riparian

June 12

Trap night #3

Temp: 82°, 44°

% Cloud: 0

1 ✓	6 ✓	11 ✓	16 ✓	21 ✓
2 ✓	7 ✓	12 ✓	17 ✓	22 ✓
3 ✓	8 X	13 ✓	18 ✓	23 ✓
4 ✓	9 ✓	14 ✓	19 0	24 ✓
5 ✓	10 ✓	15 ✓	20 ✓	25 ✓

Trap #	Species	Sex	Age	Comments
19	PM	♀	A	
8	PM	♀	A	Crooked

Trap site #8

East Pioneer Ridge

June 15, 1986

Trap night #1

5 ~~50~~ live traps (sets of 25)

Habitat Type - PSME / PHMA

Other Plants - FEID, BASA, SYAL,  
FRBR, HIAL, PHLO

Soil - Residual

Slope: 85%

Aspect: 30° 14/

Temp: 84° 45° 15/

% Cloud: 0 16 Δ

1/ 17/

2/ 18/

3/ 19/

4/ 20/

5/ 21/

6/ 22/

7/ 23/

8/ 24/

9/ 25/

10/ ~~26/~~

11/ ~~27/~~

12/ ~~28/~~

13/ ~~29/~~

~~30~~

~~31~~

~~32~~

~~33~~

~~34~~

~~35~~

~~36~~

~~37~~

~~38~~

~~39~~

~~40~~

~~41~~

~~42~~

~~43~~

~~44~~

~~45~~

~~46~~

~~47~~

~~48~~

~~49~~

~~50~~

~~41~~  
~~42~~  
~~43~~  
~~44~~  
~~45~~  
~~46~~  
~~47~~  
~~48~~  
~~49~~  
~~50~~



Trap site #8

East Pioneer Ridge

June 16

Trap night #2

Temp: 79° 43°

% Cloud: 0

25 live traps

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

Trap site # 8

East Pioneer Ridge

June 17

Trap night # 3

Temp: 89° 45°

% Cloud: 0

25 live traps

1 /

19 /

2 /

20 /

3 0

21 /

4 /

22 /

5 /

23 /

6 /

24 /

7 /

25 /

8 /

9 /

10 /

11 /

12 /

13 /

14 /

15 /

16 /

17 /

18 /

Trap #	Species	Sex/Age	Comments
3	MM	♂, I	Died within an hour

Trap site #9

June 24

Trap night #1

25 live Traps

Habitat Type: ABLA, VASC, Carex

Other Plants: PICO, DOPU, ERGR

Soil - Alluvial

Slope: 10%

Aspect: 290°

Temp: 92°, 48°

% Cloud: 0

Moon: 7/8 Full

Bog Below Black Butte

Note: Bog with standing  
and flowing water.

10% canopy cover

1 ✓

13 ✓

25 ✓

2 ✓

14 ✓

3 ✓

15 ✓

4 ✓

16 ✓

5 ✓

17 ✓

6 ✓

18 ✓

7 ✓

19 ✓

8 ✓

20 ✓

9 ✓

21 ✓

10 ✓

22 ✓

11 ✓

23 ✓

12 ✓

24 ✓



Trap site #10

June 24

Trap night #1

25 live traps

Habitat Type: PIEN, VASC, Carex

Other Plants: DOPU, ABLA, PIAL, (Bag Shrub)

Soil: Residual

Slope: 40%

Aspect: 160°

Temp: 92°, 48°

% Cloud: 0

Moon: 3/8 Full

Black Butte Spruce Bog

Note: Boggy, timbered hillside.

50% canopy cover

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

Trap #	Species	Age/Sex	Comments
20	PM	A/unknown	Debbie let him escape

Trap site #9

Bag below Black Butte

June 25

Trap night #2

Temp: 90°/46°

% Cloud: 90%

1 ✓

26 ✓

2 ✓

21 ✓

3 ✓

22 ✓

4 ✓

23 ✓

5 ✓

24 ✓

6 ✓

25 ✓

7 ✓

8 ✓

9 Δ

10 ✓

11 O

12 ✓

13 ✓

14 ✓

15 ✓

16 ✓

17 ✓

18 ✓

19 ✓

Trop <sup>II</sup>	Species	Age/sex	Comments
11	EA	A/unknown	Didn't check sex



Black Butte Spruce Bog

Trap site # 10

June 25

Trap night # 2

Temp: 90° 46°

no cloud: 50

✓	20 ✓
✓	21 ✓
✓	22 ✓
✓	23 ✓
✓	24 ✓
✓	25 ✓

✓	1
✓	2
✓	3
✓	4
✓	5
✓	6
✓	7
✓	8
✓	9
✓	10
✓	11
✓	12
✓	13
✓	14
✓	15
✓	16
✓	17
✓	18
✓	19

Trap #  
7

Species  
PM

Sex/Age  
♀/A

Comments  
Clipped  
LR toe

nursing  
mamma

Trap site #9

Bag below Black Butte

June 26

Trap night #3

Temp: 87° 48°

% Cloud: 5'

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

Trap site #

Black Butte Spruce Bog

June 26

Trap night # 3

Temp: 87° 48°

% Cloud: 10

- |      |                 |
|------|-----------------|
| 1 /  | 20 $\Delta$     |
| 2 /  | 21 /            |
| 3 /  | 22 X (Dead)     |
| 4 /  | 23 /            |
| 5 /  | 24 /            |
| 6 /  | 25 /            |
| 7 /  |                 |
| 8 /  |                 |
| 9 /  |                 |
| 10 / |                 |
| 11 / |                 |
| 12   | eventually died |
| 13 / |                 |
| 14 / |                 |
| 15 / |                 |
| 16 / |                 |
| 17 / |                 |
| 18 / |                 |
| 19 / |                 |



Trap #	Species	Age/sex	Comments	
12	PM	A/♀	hd toe clipped from previous trapping	- Died later in morning
22	MM	A/	Dead	