9/12/84

9:00 SA 4 um. 0° on nest.
ANAL R. ANAL R.

9:20 SA 4 W/B/C A/C
WM 34 WM 13
SA 0° um
Still
CTA 9 B/O A/C
Show DWA 9 1/2 m
at 11:30 DWA 9.5 m
DWA 0° um (maybe young? brownish gray underside)
W/W um

Pass. followed this group from ANAL

11:35 - 12:15 CTA 4 R/B A/C
ANAL R
80 m O PX um
b
A/N 1.1 PX um
90 m O SAD um
WFA 9 um

SA 4 um
DWA 9 um
CTA 0° R-67/R-G A/C
CBA um
9/12/84

AHA3 SPA 10 R/R
10 m@ DWH 9 um
1:00 somebody being fed - maybe SPA

B. 10 in @

AVA 13.2 CTA 57 um
@ 3 m
1:30 - 1:45

9/13/84

WMAO 13.8 SA 9/R A/A
50m(0) SA 57 um
6:30 WFA 9 um

RTF 5 um

DWA 8, 4 CTA

9:30 LG 2 um

WMAO
6:5 - WGA 5 um DWH Border dip
10:50
9/13/84

SA 6° v.m. at AVA 1.7 west
(mate to SA 9° v.m.)

AVA 1.2
DWA 0°, 0°, 9
WFA 4° v.m. + ?
LG v.m.

AVA 1.3
Slight Rd at AVA 1.2 L

9:30-10:00

AVA 1.8
CTA 9°, 1°, 8
DWA

gap 10:15
CTA 8° R. 6° R. 9°
WFA 4° 4° v.m.

AVA 2
Mobbing a boa (3) brown snake with rust diamond markings. It was coiled up in a tree 25' up:
all of the birds in the flock mobbed it, although the WFA
started first and finished last.
the snake did not move, and appeared unaffected by the
mobbing
AVA 1.4
CIA red 5th fl
50m© WPA 2°, 5 m
11:30 PX 2 m
20 m© WPA 6°, 4
Canada Warbler
LG vm
RTF vm

9/13/84

1:15-1:20
WMD B 15 m©
AVA-30

9/14/84

AVA-30

WMD B 15 m©
AVA-30

9:30
WPA© CTA 4 fl

12:0 10x
feeding baby

C Walker Right
9/14/84

Cont

[MMW 14 fl/c]

WMW 13.5
10 mL

WMW 13.3
92 p

WMW 18.4
10 mL
CTA Bd correct

WMW 13.5
10 mL

WMW 13.6
40 mL
CTA BA

WMW 13.6
9:30
cr/ Bd

WMW 13.3
9:46
BD
Cont

Corner group retreated
WMW14 group went to UT WMW14

WMW 14.3
12:00 CTA + WFA

WMW 14.3
12:00 20°

WMW 14.4
B 30°
10:30

10:35 CTA Red 8° 8' 9" SPA 4' 7.5°
AVH 14° 60°

11:05 AVH 14° 60°
(DWA) headed back toward AM/18 gap

11:15 AVH 14° 50°
DWA B1

11:20

AVH 14° 50°
Corner group CTA 8° 14' 9° B2o

WMW 12.6 C WMW 12.4 30° W0
9/14/84

WMW 4.1 (WMW 14 flock)

WMW 15.7

[WMW 14 flock]

1/42, 23

CFA 9 B/0 @

WPA 9

WPA? WPA Berya baby

1/42, 24

W3Wwim

WMW 13.8 20m @

WMW 13.2 Corner Floor

gap @)
9/15/84

9:00
AUV 2.7

9:00

9:30
SA 6° Al @
SA 9° ?

9:30

WFA 8° um
WFA 9° um

9:30

WFA jaw ?
PX van
Canada Worker

9:55
another CTA clipped in diet
and Red group moved

AVA 2.9
10m @

10:00
antigonal clipping with birds toward
JE 1
Red headed toward AVA 1.8

14:32-23
Bd CTA (not red group)

14:15
31, 22

14:15
31, 22

14:15
31, 22

14:15
31, 22
10:35  Red Group
\[ {\text{AVA 2.7}} \]
\[ {\text{AVA 2.5 10:25}} \]
\[ {\text{AVA 2.5 10:30}} \]
\[ {\text{10m @}} \]

10:35  WMW 14 VT

10:36  BD with CTA 8°, 4 cm (comm)

10:41  CTA Red Retreat

10:45  CTA Red

WMW 14.2
30m @

11:00  CTA Red

AVA 1.6
30m @
9/17/84

9:30
CCTA 8 UBW@
WMW 13.2
WMW 13
AVU 0.2

AVA 0.3 @ 20m — AVA 0.4 @ 80m

P 0.4
P 0.3
H 36/015 40m@

WBM 1
WBW um
WBW um
16 Sept 1984 nets open 7:00-5:30
N 1-14

× 8:00 N-10 WBW dr/BB© ALC 011
9:00 -
× 10:00 N-11 KIF B/R© ALC 041
11:00 N-8 BB molt
12:00 N-3 CX wap /x/BE ALC
× 1:00 N-5 KIF lo/R© ALC 043
1:00 N-10 WBW w/x/110 © ALC 79-30389
× 1:30 N-12 SA 4 8/18-W© ALC 038
× 1:30 N-11 CBA 4W© ALC 037
× 4:15 N-2 CT© 83/10© ALC 044
4:15 N-8 CT© wap PY/P© ALC ©
4:15 N-8 SA© wap ALC 035

18 Sept 1984 nets open 7:00-5:30
N 1-14

× 8:00 N-2 CTA 4/4 83/10© ALC ©
8:00 N-17 SPN 9 K/B© ALC 020
8:00 N-15 KML ©
9:00 N-2 CTA© wap CH/W© ALC ©
9:00 N-15 CH/W© Cedar-Felled Pigeon

Record (copy)

15.5 g no melt, very wavy tail feathers.
8.2 g no melt
19.7 g light body melt
8.2 g no melt
17.7 g small swollen spot on © leg
24.5 g head, wing covert muscle
10.5 g light cream wrinkles, thumb, lower cone © no melt
11.5 g no melt
→ changed to R/AL © sold on © leg 24 g
12.5 g light cream indices no melt
17 g
**Notting Hill Record Copy**

18 September 1954 (Cont) Note: Open 7.00-5.30

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Notes</th>
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<tbody>
<tr>
<td>10:00</td>
<td>N-16</td>
<td>RTF B/Y @ A°C 0.45</td>
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<tr>
<td>11:00</td>
<td>Rain</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>N-9</td>
<td>Pigeon</td>
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<tr>
<td>12:00</td>
<td>N-19</td>
<td>CBA K/Y@C A°C 0.05</td>
</tr>
<tr>
<td>12:00</td>
<td>N-14</td>
<td>RTF P/K@C A°C 0.45</td>
</tr>
<tr>
<td>1:00</td>
<td>N-11</td>
<td>GPH W B/Y B/C A°C 0.25</td>
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<tr>
<td>1:00</td>
<td>N-11</td>
<td>GPH W B/Y B/C A°C 0.45</td>
</tr>
<tr>
<td>1:00</td>
<td>N-19</td>
<td>CBA K/B/C A°C 0.39</td>
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<td>CBA K/B/C A°C 0.39</td>
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<tr>
<td>1:30</td>
<td>Rain</td>
<td></td>
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<tr>
<td>1:30</td>
<td>N-16</td>
<td>W/B W K/R@C A°C 0.25</td>
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<tr>
<td>1:30</td>
<td>N-14</td>
<td>SPH W B/C A°C 0.05</td>
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<tr>
<td>2:15</td>
<td>N-3</td>
<td>W/B W 0/0.05@ A°C 0.25</td>
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<tr>
<td>2:15</td>
<td>N-17</td>
<td>B/G B/C A°C 0.10</td>
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<tr>
<td>2:15</td>
<td>N-12</td>
<td>SPH W</td>
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<tr>
<td>3:00</td>
<td>N-5</td>
<td>RCM 0</td>
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<tr>
<td>3:00</td>
<td>N-19</td>
<td>CBA H/Y@C 0.14</td>
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<tr>
<td>3:30</td>
<td>N-14</td>
<td>SAG 0.048 @ A°C 0.41</td>
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<tr>
<td>4:15</td>
<td>N-10</td>
<td>CTA H/Y@C</td>
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</tbody>
</table>

- 29.5 g  
  - 10.0 g: No molt
  - 19.5 g
  - 47.5 g
  - 20.5 g

- 11.2 g  
  - Group tail, finger molt
  - 14 g: Light body molt
  - 19.2 g: Light body molt
  - Decap Released

- 22 g  
  - Adult, tail and wing molt
  - Moderate body molt
<table>
<thead>
<tr>
<th>Time</th>
<th>Observations</th>
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<tbody>
<tr>
<td>8:00</td>
<td>SB  R/B/© AC©  048</td>
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<tr>
<td>9:00</td>
<td>N-21 GHT DJ W/o/© AC©</td>
</tr>
<tr>
<td>9:00</td>
<td>N-22 WFA © SP/P/© AC©  049</td>
</tr>
<tr>
<td>9:00</td>
<td>N-22 WFA © UP/B © AC©  050</td>
</tr>
<tr>
<td>9:00</td>
<td>N-22 WFA © UP/© AC©  051</td>
</tr>
<tr>
<td>10:00</td>
<td>N-21 RX/© Be/0 © AC©</td>
</tr>
<tr>
<td>10:00</td>
<td>N-17 ST © R/© AC©  042</td>
</tr>
<tr>
<td>10:00</td>
<td>N-16 CT/C © SW/L © AC ©  054</td>
</tr>
<tr>
<td>10:00</td>
<td>N-16 CT/C © R/W © AC ©  053</td>
</tr>
<tr>
<td>10:00</td>
<td>Canada Warbler</td>
</tr>
<tr>
<td>11:00</td>
<td>Northern Waterthrush</td>
</tr>
<tr>
<td>12:00</td>
<td>RX/© R/YR © AC©</td>
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</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>Notes</th>
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<tbody>
<tr>
<td>8.5g</td>
<td>no molt</td>
</tr>
<tr>
<td>8.5g</td>
<td></td>
</tr>
<tr>
<td>9.2g</td>
<td>baby</td>
</tr>
<tr>
<td>7.9g</td>
<td></td>
</tr>
<tr>
<td>25g</td>
<td>wing, body, tail, wing, meet</td>
</tr>
<tr>
<td>11g</td>
<td>head, body, tail, wing, meet</td>
</tr>
<tr>
<td></td>
<td>light blue, eddy (2nd yr sn)</td>
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<tr>
<td>10g</td>
<td>brown, eddy</td>
</tr>
<tr>
<td>8.5g</td>
<td></td>
</tr>
<tr>
<td>12.2g</td>
<td>body &amp; outer primary molt, bird looks</td>
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<tr>
<td></td>
<td>nice</td>
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**21 September 1984 Noting Record (Copy)**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:15</td>
<td>N-21</td>
<td>BTW w/cap 10/18 &amp; H &amp; O 024</td>
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<tr>
<td>8:15</td>
<td>N-19</td>
<td>CBA w/cap R/4 &amp; H &amp; O</td>
</tr>
<tr>
<td>9:15</td>
<td>N-19</td>
<td>SPA w/B &amp; H &amp; O 015</td>
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<tr>
<td>10:15</td>
<td>N-6</td>
<td>White Whiskered Puffbird</td>
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<tr>
<td>10:15</td>
<td>N-20</td>
<td>BF Treason</td>
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<td>11:15</td>
<td>N-18</td>
<td>Wood w/H &amp; O 055</td>
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<tr>
<td>11:15</td>
<td>N-6</td>
<td>TMA &amp; R/3 &amp; O 055</td>
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<tr>
<td>11:15</td>
<td>N-6</td>
<td>WFA &amp; B/B/O &amp; H &amp; O 052</td>
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<tr>
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<td>N-6</td>
<td>PX R/w/B &amp; H &amp; O 053</td>
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<td>11:15</td>
<td>N-5</td>
<td>KTF w/B &amp; H &amp; O 057</td>
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<td>12:15</td>
<td>N-21</td>
<td>SAW w/B &amp; H &amp; O</td>
</tr>
<tr>
<td>12:15</td>
<td>N-19</td>
<td>NWS w/B &amp; H &amp; O 058</td>
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<tr>
<td>12:15</td>
<td>PBW</td>
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<tr>
<td>2:15</td>
<td>N-4</td>
<td>WPA &amp; 0/85 &amp; H &amp; O 381</td>
</tr>
</tbody>
</table>

- **44.9 g** body, primary molt
- **17.3 g**
- **45.3 g**
- **79.5 g**
- **11 g** Lt brown index - last year bird (near body molt)
- **9.5 g** light body wing molt
- **12.4 g** body molt
- **3.8 g** body, head, tail, wing covert molt, looks thin
- **10.5 g** jaw, just finished jaw molt, yellow fumion
1984 Net Locations

N-1  AVA-WMW junction 5 mi D
N-2  WMW 13.2 dip
N-3  WMW 13.3 @ 10 m
N-4  WMW 13.4 @ 15 m
N-5  WMW 13.4 trail L
N-6  WMW 14 trail L
N-7  WMW-AVA cutoff 11 to WMW
N-8  WMW-AVA cutoff 11 to cutoff
N-9  JZ 0.1 L
N-10  JZ 0.2 L
N-11  JZ 0.3 R
N-12  JZ 0.8 10 m L
N-13  JZ 0.8 15 m L
N-14  AVA R H 32-18
N-15  AVA L H 32-18
N-16  AVA R H 33-19
N-17  AVA L H 33-19
N-18  WMW 13.9 L
N-19  WMW 14.10 m R
N-20  WMW 13.7 L 20 m
N-21  WMW 13.8 L 15 m
N-22  JZ 1.1 L
N-23  WMW 14 L 20 m L
N-24  WMW 14 L 20 m H
Check on Physophora # 950-57122.
Sept. 24  Belmopan - Hummingbird Highway

4:30 - 5:30  Rain  afternoon

11:30  Arrived

Tなもの

2:30

4:00  Started

dinner

8:00  dinner

10:00  Dinner with

Mile 3  Left  Lanterns

Mile 4  Right  As  Paint

Miles 8  Turn  West

Miles 12  Turn  East

Miles 16  Turn  West

Miles 20  Turn  East

Miles 22  Turn  West

Miles 24  Turn  East

Miles 26  Turn  West

Miles 28  Turn  East

Miles 30  Turn  West

Miles 32  Turn  East

Miles 34  Turn  West

Miles 36  Turn  East
Bull

At home

#1 church

At Cape

[Drawing of a bird]
First Class
First Class
Trip Date
20
4
10
1
20
1
-300 ft &
Hopper
Gravel
-15
3 mm
Gravel
in
Hopper
Good

Second Class
Second Class
Electric Rail
Engine
60-0
80-0
50-0
50-60
50-2
80-0
50-14
50-0
Loc O
From
100-0
200-0
200-0

Judy report:
The engine
4
2.30
1.00
September 25

checked the Inner Banks of Hummingbird Holding

1) New Hen Harrier colony (found 1st)

2) Franklin Tree

Saw 5 flies in well e.

Only 1 worm (at end of

Frontline Trail where I saw

Them last year.)

31st or April)

31.1 in

polar lake ice.

5-6 Ospreys

10+ Hoo-do

5-10 Kestrel hds.

6 + ED

Emp. 20.

1/8 1931
Wood Thrush (ko)

also Today Motmot!...mst

B. R. Antheil

(Ph)


S. B. Wren, L. B. Cattlet


R. E. Wren, R. W. Wren

AE not CSD, L. C. Wren
<table>
<thead>
<tr>
<th>Total</th>
<th>Sample</th>
<th># dead</th>
<th>Wasted</th>
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<tbody>
<tr>
<td>800</td>
<td>50</td>
<td>-</td>
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</tr>
<tr>
<td>850</td>
<td>50</td>
<td>1</td>
<td>3mm brown spider, top</td>
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<tr>
<td>900</td>
<td>50</td>
<td>1</td>
<td>3mm white spider, 50 instar baby</td>
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<tr>
<td>950</td>
<td>50</td>
<td>-</td>
<td>5mm thread nap, top</td>
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<td>50</td>
<td>2</td>
<td>3mm white spider, B</td>
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<tr>
<td>1050</td>
<td>50</td>
<td>1</td>
<td>3mm green thread nap, B</td>
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<td>1100</td>
<td>50</td>
<td>1</td>
<td>-</td>
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<tr>
<td>1150</td>
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<td>4</td>
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</tr>
<tr>
<td>1200</td>
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<td>50</td>
<td>3</td>
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<td>1400</td>
<td>50</td>
<td>22</td>
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<tr>
<td>1450</td>
<td>50</td>
<td>1 palm</td>
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<tr>
<td>1500</td>
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<td>-</td>
<td>-</td>
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<td>1550</td>
<td>50</td>
<td>5</td>
<td>3mm Spider B</td>
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<tr>
<td>1600</td>
<td>50</td>
<td>1 palm</td>
<td>1 cm White beetle T</td>
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<td>1450</td>
<td>50</td>
<td>2</td>
<td>2mm spider B</td>
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<tr>
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<td>50</td>
<td>6</td>
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<tr>
<td>1350</td>
<td>50</td>
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<td>antler root</td>
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Note: The entries include various measurements and species identification.
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<tbody>
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<td>3</td>
<td>4mm hornet B</td>
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<td>-</td>
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<td>1450</td>
<td>50</td>
<td>2</td>
<td>3mm spider B</td>
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<tr>
<td>1500</td>
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<td>1mm wasp A</td>
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<tr>
<td>1600</td>
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<td>2</td>
<td>3mm spider B</td>
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<td>1650</td>
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<td>1cm wasp B</td>
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<td>3mm green B</td>
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<td>7</td>
<td>5mm spider B</td>
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<td>50</td>
<td>5</td>
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<td>2250</td>
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<tr>
<td>2300</td>
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<td>10</td>
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- 3mm spider B
- 4mm spider B
- 6mm spider B
- 6mm metal insect
- 6mm beetle B
- 4mm tortoise beetle B
- 6mm cricket B
- 3mm spider B
| 2350  | 50  | 3   | 4mm Cantharid Beetle |
| 2400  | 50  |     |                   |
| 2450  | 50  |     |                   |
| 2500  | 50  |     | 1 cm cantharid      |
|       |     |     | bug larva           |
Dead Leaves Sample #1

8mm millipede
4mm Cerambycid beetle
3,3,3 mm beetle
8mm centipede
5mm Bopyri
9-5mm ant pupae
3mm spider
6,7,9 mm Click beetle
7mm wasp
6mm Cricket
3mm red milk
16mmroach
7mmant
8,9,10mm centipede
2mm spider
6mm beetle
10mm millipede
4mm centipede
5mm bee
5/6 mm beetle
4,2 mm spider
10mmroach
2mm spider

Dead Leaves Sample #1 Cont

8mm spider
2mm beetle
5,5,6 mm centipede
5,6mm ant
5mm roace
12mmmillipede
3,4 mm spider
4mm red milk
5mm spider
3,8 mm centipede
7mm ant
3mm roace
6mm spider
8mm roace
3,3,5,6,7mm centipede
46mm walking stick
9mm pentatomid
2mm pseudoscorpion
1cm cricket (escaper)
Dead Leaf - Sample #2  9/26/84

2.3 mm Cricket
9 mm Spider
5 mm Salticid
ant
7 mm rock nymph
7 mm rock nymph
7 mm web

2 mm isogad

4 mm Salticid beetle
4 mm isogad
6 mm web
5 mm isogad

3 mm rock nymph
5 mm isogad

Dead Leaf
Sample #3  9/24/84

Long Trail

7 mm isogad
6.6 mm isogad
3 mm Spider
4 mm beetle
ant nest

8 mm beetle larva
3 mm roach

11 mm lep larva
7 mm beetle
5 mm isogad
12 mm Centipede
2 mm Spider
3 mm beetle
4.5 mm isogad

5.5, 7.5 mm roach

9 mm Spider
7.7 mm Salticid
3.4 mm Spider
3.4, 5.5 mm Spider
3.5 mm Spider
5 mm circled
6.5, 6.6 mm Centipede
4.9, 8, 10 mm Centipede
Sample 4

- 2mm cater
- 4mm brown beetle
- 4mm brown beetle
- 1mm
- 2mm weevil
- 1mm millipede
- 2mm spider
- 6mm roach/hopper
- 9mm black beetle
- 6mm black beetle
- 1mm thin scarab beetle
- 8mm black beetle
- 5mm spider
- 1mm peps (lep?)
- 4mm weevil
- 2mm Neuroptera
- 3mm grasshopper
- 4mm beetle
- 2mm Neuroptera

Sample 5

- 5.5mm beetle
- 3.6mm Neuroptera
- 1mm roach
- 9mm ant-mimic spider
- 8mm spider
- 5mm roach
- 2mm spider
- 6mm spider
- 3mm Neuroptera
- 3mm pseudoscorpion
- 4.5mm spider
- 4mm ant-mimic spider
- 15mm cricket
September 26  

We worked at only part of trail
(1st mile) - little luck finding
a good trail. We fixed good
trail system beyond firestone sitt
in low swamp forest. &
a short trail up beautiful
timberline forest on 1st map.

We saw 8-9 rattlesnake flunks
today in swampy forest. I
thought I saw 2 new herons
at morning, but checked with
no luck.

Saw 1 cow

led 10 hounds

killed 10 hounds

saw 1 bear

extra food

no blackbird

no Glicker white widden.

Visibly was pretty poor
September 27
Travelled from Alamosa to San Antonio all day.

Sept. 28
Went out Esperanza Trail which has been run down by a bulldozer for logging since February.
The trail was wide and muddy and occasional large trees were falling along the sides.
We saw good numbers of flowers in the mountains.
We met 2 young guys who were cutting knee trees (Fonseca) with their saws - hot grading the road. It was hard to tell where the work was. It was a bit scary -
we saw 200 flowers - but which had worn (C. wabler) which stood in the smooth ash.
First part of ride - to the
next one on or near division ridge.
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**Live Leaf Census 9/29/84**
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Also, 1cm lycoriid spider that flushed out of a flat dead leaf
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Notes:
- Temperatures recorded in °C.
- 18" = 457 mm.
30 September.Lined leaf. Writ out.

Time to time barred.

1cm white moth. B
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<td>3</td>
<td></td>
</tr>
<tr>
<td>2450</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>2520</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

**September 29th - 30th**

Both days were busy (7:30-9:00am)

I worked along the Expedition Trail for weasels & collected insects on the way back.

The first day we had a failure:

[Diagram: twigs and arrows indicating failure process]

If we succeed it difficult to get warming we decided about

7 Flies 1 Fort onwards
5 and got data on 4
Saw lots (4-5) at foliage.
Glaucous - all the same.
So far have joined at least 3
of dead palm trees. First Mocking
Wren (only 2)!
Saw S. Thrush, Canada wren (6-8
Saw S. Thrush, Canada wren (6-8
McKenzie) 8 (8 per together)
N. wren. N. wren-thrush
1 (saw two behind left type)

Sept 20 - cloudy in the morning.
Long in the afternoon. We have a
large line into old fruit tree
trying to escape (you recall. He
bought in a box containing to
dry raisins) and staggered for sundry.
we saw about 6 flies
well - 5 of which had witnesses
by actual hearing. - We
got left on 3.
Dead Leaf Sample #6  Esperanza Ridge

4 mm spider
4 mm spider
5 mm spider

3 x 5 mm op. indic
9 mm grub
3.5 cm phasmid
2 cm roach
2 x 4 mm beetle
2.4 cm katydid
8.9 mmroach
2 cm moth
5 mm roach
3 mm beetle
2 cm 1.8 cm beetle louse
3.5 cm katydid
4.5, 5 mm weevil
2.4 mm beetle
5 mm op. indic
4 x 1 cm cricket

Dead Leaf Sample #7  Esperanza Ridge

1.5 cm cricket
1 cm cricket
2 cm cricket
2.2 cm cricket
2.5 cm cricket
2.5 cm cricket
1.1 cm cricket
4 mm spider
7 mm
3 mm
10 mm
3 mm
5 mm
5 mm
8 mm
11 (14) mm roach
9 mm roach egg case
4 mm beetle
2 mm spider
15 mm millipede
5 mm spider egg case
Dealley Sample #8

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7mm</td>
<td>spider</td>
</tr>
<tr>
<td>5mm</td>
<td>roach case</td>
</tr>
<tr>
<td>5mm</td>
<td>beetle</td>
</tr>
<tr>
<td>10mm</td>
<td>beetle</td>
</tr>
<tr>
<td>5.5, 5mm</td>
<td>isopod</td>
</tr>
<tr>
<td>4mm</td>
<td>cricket</td>
</tr>
<tr>
<td>5mm</td>
<td>spider</td>
</tr>
<tr>
<td>5.5mm</td>
<td>rock</td>
</tr>
<tr>
<td>3.8mm</td>
<td>moth</td>
</tr>
<tr>
<td>15, 14, 12mm</td>
<td>millipede</td>
</tr>
<tr>
<td>16mm</td>
<td>beetle pupa</td>
</tr>
<tr>
<td>12, 12, 15mm</td>
<td>cricket</td>
</tr>
<tr>
<td>3.5cm</td>
<td>blue rose katydid</td>
</tr>
<tr>
<td>12mm</td>
<td>spider</td>
</tr>
<tr>
<td>15mm</td>
<td>spider</td>
</tr>
<tr>
<td>5, 4, 4mm</td>
<td>spider</td>
</tr>
<tr>
<td>12mm</td>
<td>beetle</td>
</tr>
<tr>
<td>4mm</td>
<td>egg case</td>
</tr>
<tr>
<td>6mm</td>
<td>spider</td>
</tr>
<tr>
<td>2, 4, 4, 4, 2mm</td>
<td>roach</td>
</tr>
<tr>
<td>6mm</td>
<td>ant</td>
</tr>
<tr>
<td>4mm</td>
<td>spider</td>
</tr>
<tr>
<td>7mm</td>
<td>springtail</td>
</tr>
</tbody>
</table>

4.5, 4mm roach
4mm spider
Tape Transcript

1. Hinter Hydr. Mile 3
2. Palm front: humerus @ 20°.
3. Pick up 2.200
4. Pick up 1.100
5. Pick up 1.100
6. 3h. 11m. = 10.5 cc.
7. Pick up 2.200
8. 3h. 11m. = 10.5 cc.
9. Pick up 2.200
10. 3h. 11m. = 10.5 cc.
11. Pick up 2.200
12. 3h. 11m. = 10.5 cc.
13. Pick up 2.200
14. 3h. 11m. = 10.5 cc.
15. Pick up 2.200
16. 3h. 11m. = 10.5 cc.
17. Pick up 2.200
18. 3h. 11m. = 10.5 cc.
19. Pick up 2.200
20. 3h. 11m. = 10.5 cc.
21. Pick up 2.200
22. 3h. 11m. = 10.5 cc.
23. Pick up 2.200
24. 3h. 11m. = 10.5 cc.
25. Pick up 2.200
26. 3h. 11m. = 10.5 cc.
27. Pick up 2.200
28. 3h. 11m. = 10.5 cc.
29. Pick up 2.200
30. 3h. 11m. = 10.5 cc.
31. Pick up 2.200
32. 3h. 11m. = 10.5 cc.
33. Pick up 2.200
34. 3h. 11m. = 10.5 cc.
35. Pick up 2.200
36. 3h. 11m. = 10.5 cc.
37. Pick up 2.200
38. 3h. 11m. = 10.5 cc.
39. Pick up 2.200
40. 3h. 11m. = 10.5 cc.
41. Pick up 2.200
42. 3h. 11m. = 10.5 cc.
43. Pick up 2.200
44. 3h. 11m. = 10.5 cc.
45. Pick up 2.200
46. 3h. 11m. = 10.5 cc.
47. Pick up 2.200
48. 3h. 11m. = 10.5 cc.
49. Pick up 2.200
50. 3h. 11m. = 10.5 cc.
51. Pick up 2.200
52. 3h. 11m. = 10.5 cc.
53. Pick up 2.200
54. 3h. 11m. = 10.5 cc.
55. Pick up 2.200
56. 3h. 11m. = 10.5 cc.
57. Pick up 2.200
58. 3h. 11m. = 10.5 cc.
59. Pick up 2.200
60. 3h. 11m. = 10.5 cc.
61. Pick up 2.200
62. 3h. 11m. = 10.5 cc.
63. Pick up 2.200
64. 3h. 11m. = 10.5 cc.
65. Pick up 2.200
66. 3h. 11m. = 10.5 cc.
67. Pick up 2.200
68. 3h. 11m. = 10.5 cc.
69. Pick up 2.200
70. 3h. 11m. = 10.5 cc.
71. Pick up 2.200
72. 3h. 11m. = 10.5 cc.
73. Pick up 2.200
74. 3h. 11m. = 10.5 cc.
75. Pick up 2.200
76. 3h. 11m. = 10.5 cc.
77. Pick up 2.200
78. 3h. 11m. = 10.5 cc.
79. Pick up 2.200
80. 3h. 11m. = 10.5 cc.
81. Pick up 2.200
82. 3h. 11m. = 10.5 cc.
83. Pick up 2.200
84. 3h. 11m. = 10.5 cc.
85. Pick up 2.200
86. 3h. 11m. = 10.5 cc.
87. Pick up 2.200
88. 3h. 11m. = 10.5 cc.
89. Pick up 2.200
90. 3h. 11m. = 10.5 cc.
91. Pick up 2.200
92. 3h. 11m. = 10.5 cc.
93. Pick up 2.200
94. 3h. 11m. = 10.5 cc.
95. Pick up 2.200
96. 3h. 11m. = 10.5 cc.
97. Pick up 2.200
98. 3h. 11m. = 10.5 cc.
99. Pick up 2.200
100. 3h. 11m. = 10.5 cc.
101. Pick up 2.200
102. 3h. 11m. = 10.5 cc.
\[ V \text{ peak el level} \text{ at } 5'' \]
\[ f, f_1 = 1500 \]
\[ f = \text{at } 10^0 \]

\[ V \text{ peak el level change} \text{ at } 5'' \]
\[ \text{carry up to English} \]
\[ \text{on top of plain} \]
\[ 1300 \]

\[ V \text{ peak el level change} \text{ at } 5'' \]
\[ \text{bear or be lost peak} \]
\[ \text{Nosac,} \]

No. 5

\[ \#2 \text{ WEC} \]
\[ \text{high Alverson down splash} \text{ at } 20'' \text{ to } \text{at} \]
\[ \text{peak undertaker down} \text{ as level} \]
\[ 63, 2, 3, 4, \text{ er} = 10 \]
\[ \text{insi our peak at present} \]
\[ \text{in our cursed green planted} \]
\[ \text{we peak} 5'' \text{ dead } = 5.30 \]

\[ \text{Stornoway Highway} \text{ at } 3'' \text{ to } 30'' \text{ up} \]

\[ \text{peak undertaker} \text{ at } 13.5 \]
\[ \text{peak dec} \text{ at } 2.0 \]
\[ \text{3'' dec} \text{ at } 2.0 \]
\[ T = 45.0 \text{ sec} \]
F = 5 vie
✓ post lep button - 10 sec
✓ post at 5" DCC - 5 sec
shft 4" = 20 sec
✓ chck lef thm
shft 12" = 5 sec
✓ chck twij
✓ chck oc - 3"
✓ chck lef thm
shft 12"
✓ chck lef thm
✓ post DCC = 25 sec
shft sh +3
✓ chck DCC
✓ lef thm
✓ chck 3" DCC = 5 sec
✓ peck vine
✓ peck vine
✓ 3" DCC & cast
shft sh, lef thm
✓ DCC 10" A 'lign, drpshaf + Fitz

#5
✓ peel shoe from
✓ peel shoe from
shft pm 6" 60 sec

#6
✓ 4" DCC
✓ 6" DCC - 3 1/2"
shft 4" - 6" flip, flip
shft 3 1/2" + pm 6"; pm 6 1/2" flip, flip
shft 5 3/4"; pm 6 1/2" flip, flip

✓ 6" DCC 5 pc
✓ 3" DCC
✓ 3" DCC
shft 12"

✓ 3" DCC
shft 12" + 1 1/2"
Vine pair
10 = run
8" pcc B-1
8" pcc
pcc Blister, hand
sh. sh.
Pine pair, 8" pcc
sh. L, C
sh. right palmar
6" pcc big down
2" pcc
sh. cr. cr.
pel, on
4" pcc has down
8" pcc
check top pcc
check top pcc
N-23

# 1 Vortex Plan from:
1 - rete b. run
1 - 1st pcc on
V - 6" pcc
V - 8" pcc
N-8
# 8 (Vortex Plan from) = 100 cc

V - lock button (small)
sh. S F -
pel. small e. plate
pel. e. plate flesh?
has 3x5" DCL
5" pcc
3" pcc
left top check
30°
9-27
N-8

5 sept. - 7
3-4 6" pcc

# 9
8" pcc
7" pcc
1st pcc
2nd 6" pcc
glen. left lab.b
3" pcc
5" pcc
(continued 3 p.c.)
Dead Leaf Sample #9  Euphrasia

- 2.5 cm cricket
- 2.5 cm cricket
- 3.5 mm iridescant green beetle
- 1 cm roach
- 3, 4, 5 mm spider
- 6 mm spider
- 7 mm spider
- 8 mm spider
- 1.5 cm lep ypsi
- 6 mm wasp
- 5, 6 mm ant
- 10 (15) mm roach
- 12 mm spider
- 3, 4 mm spider
- 13 mm roach
- 6 mm roach
- 5 mm wasp
- 2, 7, 3 mm spider

Dead Leaf Sample #10  Solenopsa

- 5 mm red ant/beard
- 1 cm cricket
- 2, 2, 3 mm spider
- 4, 5, 5 mm, 6 mm spider
- 2, 5, malarum
- 1 cm hornet
- 2, 6, 7 mm roach
- 3 mm spider e.g., case
- 11 mm cricket
pack 4" PCC
pack 6" rince
pack 8" PCC
pack 12" PCC

OUT 90' 18

#3 PCC
Oct

pack 5" PCC
pack 3" PCC
pack 3" PCC + crane

N=51

pack 2" PCC
pack 3" PCC
PCC crane
Von 14 palm found 20" open, 1½" palm.

#5 3 ½" PCL
#5 5" PCL
#5 8½" PCL
#5 5" PCL
#5 4" PCL
#5 5" PCL
#7 5 ½" PCL hng down
#8 3" PCL

30° open in m.s.

- checked 3 ½" butt
- checked 4" PCL
- checked 4" PCL
- checked 5" PCL
- checked 6" PCL
- checked 7" PCL
- checked 8" PCL

- PCU 7th 2 days 1 lat
- on huge 18" PCL down
- check fist clumps
- 6½" PCL
- 7½" PCL
- check pedicle of corner 6" PCL + fluted?
Oct 2 transcript

# 20

1 lb
cheet...wink

ref, ref, ref...

pick 5" pac drug
sh, sh, sh...

7" pac--form

drop

5" pac front

her, her, her

her pick...left 8"

her wor, wor...form left

1 20"

her pick 4" pac

pac 6" here, here

# 21

pick palm tend

3" pac

pick palm tend

pick palm tend

her tend...

dropped

1 20"
#22
1/2 in. phosphor-bronze  
N.S.F.

Waller did patent flaw  
On bottom dead calm face  
Jigged hook with  
3 1/8 bucket 1 1/2 left closer button

N.S.F

#23
Modern wire  
23' up green  

on track  
pick third seat left bottom  
brass 1 lb  
on green-palm left  
poke the palm left  
#8 fish hook  
N.S.F

N.S.F

#24
2'' PCL  
6'' PCL  
8'' PCL  
8'' PCL  
line left bottom (left)
3'' PCL  
5'' PCL  
4'' PCL  
line palm (left)  
2'' PCC

3'' PCL  
3'' PCL  
2'' PCC  
3'' PCL  
3'' PCL  
2'' PCL

Blue-winged Warbler - feed cherries  
on bluebird 2 days  
blue leaves.
Sample I

\[
\begin{array}{cccc}
1 & 14 & 10 & 17 \\
0 & 1 & 48 \\
\end{array}
\]

Exp 1

\[
\begin{array}{cccc}
1/2 & 3/2 & 18 & 23 \\
1 & 14 & 8 \\
\end{array}
\]

Total 47 62

\[\alpha = 0.09/100 \text{ legion}\]
TRIGONOMETRIC FORMULAE

Right Triangle

Solution of Right Triangles

For Angle A.

\[ \sin A = \frac{a}{c}, \cos A = \frac{b}{c}, \tan A = \frac{a}{b}, \cot A = \frac{b}{a}, \sec A = \frac{c}{b}, \cosec A = \frac{c}{a} \]

Given A, B, C

\[ \tan A = \frac{a}{b}, e = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}} \]

\[ \sin A = \frac{a}{c}, \cos A = \frac{b}{c}, \sin B = \frac{c}{b}, \cos B = \frac{a}{c} \]

\[ A + B + C = 180^\circ \]

\[ \sin \left( \frac{1}{2} (A + B) \right) = \frac{a - b}{2} \]

\[ \sin \left( \frac{1}{2} B \right) = \frac{a + b}{2} \]

\[ a, b, c \]

Area

\[ \text{area} = \frac{1}{2} ab \sin C \]

\[ A, B, C, a \]

Area

\[ \text{area} = \frac{a^2 \sin B \sin C}{2 \sin A} \]

REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft.

\[ \text{Vert. angle } = 5^\circ 10' \text{ from Table, Page IX.} \]

Cosine 5° 10' = .9969. Horizontal distance = 319.4 x .9969 = 318.09 ft.

Horizontal distance = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine 5° 10' = .9969; 1 - .9969 = .0041.

319.4 x .0041 = 1.31. 319.4 - 1.31 = 318.09 ft.

When the rise is known, the horizontal distance is approximately: the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = 302.6 - 14 x 14 = 302.4 - 0.32 = 302.08 ft.