

# Jim Lane's Field Notebooks Index Contd.

(Revised Index of 11/5/2014)

| <u>PDF Name</u>  | <u>Book Label</u> | <u>Approx. Span of Dates</u>                      |
|------------------|-------------------|---------------------------------------------------|
| JL_(1970-84)_17A | 1980-81           | (01-12-80 / 15-11-81)                             |
| JL_(1970-84)_18  | 1982-83           | (13-03-82 / 18-03-83)                             |
| JL_(1970-84)_19  | 1984              | (15-03-84 / 16-03-84)                             |
| JL_(1970-84)_20  | 1984              | (20-09-84 / 10-10-84)                             |
| JL_(1992 on)_1   | 1                 | (03-11-92 / 03-08-93)                             |
| JL_(1992 on)_2   | 2                 | (04-08-93 / 18-09-93)                             |
| JL_(1992 on)_3   | 3                 | (18-09-93 / 26-10-93)                             |
| JL_(1992 on)_4   | 4                 | (27-10-93 / Dec-93)                               |
| JL_(1992 on)_5   | 5                 | (14-12-93 / 22-12-93)                             |
| JL_(1992 on)_6   | 6                 | (23-12-93 / 06-01-94)                             |
| JL_(1992 on)_7   | 7                 | (18-01-94 / 18-03-94)                             |
| JL_(1992 on)_8   | 8                 | (21-05-94 / 08-07-94)                             |
| JL_(1992 on)_9   | 9                 | <sup>08</sup><br><del>(03-07-94</del> / 02-09-94) |
| JL_(1992 on)_10  | 10                | (02-09-94 / 17-11-94)                             |
| JL_(1992 on)_11  | 11                | (22-11-94 / 9-03-95)                              |
| JL_(1992 on)_12  | 12                | Jan '95 + (15-03-95 / 01-04-95)                   |
| JL_(1992 on)_13  | 13                | (02-04-95 / 07-04-95)                             |
| JL_(1992 on)_14  | 14                | (07-04-95 / 29-04-95)                             |

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|------------------|-------------------|------------------------------|
| JL_(1992 on)_15  | 15                | (29-04-95 / 17-05-95)        |
| JL_(1992 on)_16  | 16                | (18-05-95 / 18-12-95)        |
| JL_(1992 on)_16A | 16A               | (08-11-95 / 11-11-95)        |
| JL_(1992 on)_17  | 17                | (21-12-95 / 19-06-96)        |
| JL_(1992 on)_18  | 18                | (19-06-96 / 03-08-96)        |
| JL_(1992 on)_19  | 19                | (23-09-96 / Mar 97)          |
| JL_(1992 on)_20  | 20                | (Mar 97 / Apr 97)            |
| JL_(1992 on)_21  | 21                | (16-04-97 / 12-06-97)        |
| JL_(1992 on)_22  | 22                | (12-06-97 / Oct 97)          |
| JL_(1992 on)_23  | 23                | (Oct 97 / Dec 97)            |
| JL_(1992 on)_24  | 24                | (Dec 97 / Jan 98)            |
| JL_(1992 on)_25  | 25                | (10-01-98 / 22-01-98)        |
| JL_(1992 on)_26  | 26                | (22-01-98 / 13-02-98)        |

TO BE CONTINUED

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| <u>PDF Name</u> | <u>Book Label</u> | <u>Approx. Span of Dates</u> |
|-----------------|-------------------|------------------------------|
| JL_(1969-70)_1  | '1969-70'         | (Nov 70 / Jan 70)            |
| JL_(1970-84)_1  | 1970-71           | (6-12-70 / 17-2-71)          |
| JL_(1970-84)_2  | 1971              | (08-03-71 / 21/01/72)        |
| JL_(1970-84)_3  | 1972/73           | (24-01-72 / 15-02-73)        |
| JL_(1970-84)_4  | 1973              | (05-03-73 / 15-11-73)        |
| JL_(1970-84)_5  | 1973-74           | (12-04-73 / 11-06-74)        |
| JL_(1970-84)_6  | 1973-74           | (03-12-73 / 28-03-74)        |
| JL_(1970-84)_7  | 1974-76           | (03-05-74 / 24-10-75)        |
| JL_(1970-84)_8  | 1974              | (26-05-74 / 18-11-74)        |
| JL_(1970-84)_9  | 1974-76           | (28-08-74 / 02-10-76)        |
| JL_(1970-84)_10 | 1974-76           | (21-12-74 / 25-01-75)        |
| JL_(1970-84)_11 | 1976              | (25-10-76 / 27-11-76)        |
| JL_(1970-84)_12 | 1977-78           | (16-10-77 / 21-03-78)        |
| JL_(1970-84)_13 | 1977-78           | (24-10-77 / 19-04-78)        |
| JL_(1970-84)_14 | Oct 78-Apr 79     | (06-10-78 / 14-04-79)        |
| JL_(1970-84)_15 | 1979 (Apr-Sep)    | (16-04-79 / 19-09-79)        |
| JL_(1970-84)_16 | 1979-80           | (26-09-79 / 23-05-80)        |
| JL_(1970-84)_17 | 1980              | (14-05-80 / 07-11-80)        |



6

\$ .40

# NOTE BOOK

No. 560

23 DEC 93 → 6 JAN 94

①

Start of Th. 23/12/93

Vespe Estuary floodgates (Warrat)

gauge reading on Thursday  
23rd Dec '93 at 7.54 am  
= +0.06 m AHD

Water level lower on ocean

side + some water leaking out.

~~Photo of excavator near Warrat floodgates.~~

Worrump Estuary (Warrat) floodgates  
gauge at 8.10 am =  
= -0.05 m AHD

Worrump Estuary (E end) CATH  
gauge at 8.16 am  
= +0.18 m

Revisited E section of  
Swentale to verify last  
week's descriptions of Swan nest use

23/12/93 Lmbel

- [ photo of nest 168 -  
- embryo growing up from it  
- eggshell fragment - new (93)  
nest material.

- [ nest 164 - yes, new  
(93) material - but no eggshell  
fragments.

- nest 163 - new material  
+ eggshell fragments.

- [ nest 170 - new material  
large egg pieces but few fragments  
- photo - ~~q~~ abandoned -  
predated?

2 photos of empty fragments in centre

③

23/12/93 contd

- [photo of old nest site N° 162  
(add to data base)  
nest gone completely.]

Measure distance to nearest nests?  
~~at some~~ before end of project.

- [nest 174 - 2 photos -  
shit on top - eggshell beneath]

- [nest 125 - new material  
- eggshell fragments.]

- [nest 177 - new material  
- eggshell fragments]

(4)

23/12/93 Control

- 176 new material + eggshells  
fragments -

- 354 drifts .

- 353 "

- 350 "

- 212 "

- 213 "

- 215 "

- 218 "

(5)

23/12/93 contd

228 - definitely much  
new nest material - but  
no eggshell fragments

(less likely)  
either eggs not laid - or were  
abandoned and carried away.

232 - a few egg fragments  
on surface (only) of fresh material.

235 - old material - some egg  
fragments - probably not.

239 - eggshell fragments -  
new material - but virtually  
none under ~~new material~~ top layer  
of new material.

⑥

23/12/93 contd

- 244 - new material  
mass of eggshell fragments just under  
upper layer of material + soil.

- 247 - ditto

⇒ def used this year.

- 370 - ditto

- 149 - much  
new nest material

but no eggshell fragments on surface  
or just below ⇒ def not hatched.

- 399 - ditto

(7)

23/12/93 Contd

leg not found

much new material —  
much eggshells fragments just beneath  
top layer of material  
⇒ produced eggs.

202

ditto

146

ditto

Then went to Wallace's house to count eggs/broods  
Wallace's data

|         |         |      |      |
|---------|---------|------|------|
| 8-12-93 | 1030    | 0.33 | (JL) |
| 11-12   | 4.30    | 0.30 |      |
| 13-12   | 7.30 am | 0.27 |      |
| 15-12   | 7.50 am | 0.26 |      |
| 18-12   | 7 am    | 0.20 |      |
| 20-12   | 8.30 pm | 0.21 |      |

③

23/12/93 Contd

Open Lore

- 20.00 cm

26/11

~~-27, 1, 50, 1~~

*m. f.*

$\frac{4}{14}$

l.d.y

 $\sqrt{1}, \sqrt{2}$ 

false start - abandoned  
 (had to move closer due to heat haze)

Count by me  
and Grant

23/12/93 count

(9)

s. dy

m. d. y

L. d. y

b. d. → f. y

s. f. y

m. f. y

L. f. y

1, 1

1, 1, 1, 2

100

c 5 adults.

Recount - 124

L. dy = 2

L. d. → f. y = 5

m + L. f. y = 114

adults = 3

124

final  
figures

Seven Lake Totals

all birds were  
in western  
pool

(10)

23/12/93 Contd

depth of Swan Lake at 1020 hrs  
= 0.18 m (CAEM)  
Serge

total  
Start Wannup Estuary count of  
eggs + broods at 1050 hrs.  
(left car at John + Robyn Forrest's)

- dead  
Shelduck in fence (caught on wires)
- Big area of grass in recently  
exposed areas.

1 pair with 6 l.d.y.  
— 3 l.d.y.  
~~2 l.d.y.~~  
5 l.b.y.  
2 l.b.y.

(11)

23/12/93 Control

1 l.f.y.

9 l.f.y.

1 l.d. → l.y.

1 l.f.y.

3 l.f.y.

1 l.d.y.

2 l.f.y.

1 l.f.y.

3 # "

2 l.d. → l.y.

1 l.d.y.

1 m.l.y.

4 l.d.y.

4 l.f.y.

2 l.f.y.

4 l.f.y.

2 l.f.y.

12

23/12/93 Louth

1. s. f. y.

2 s. f. y.

CPM gauge at 1120 = 0.17m

(gauge at E end of Wonnamp Estuary)

1 L. d. s. y.

3 l. f. y.

10 l. f. y.

1 l. f. y.

7 l. d. y.

1 l. d. y.

2 l. f. y.

3 s. f. y.

1 l. f. y.

2 l. d. y.

2 l. f. y.

3 l. f. y.

5 m. y.

(13)

23/12/93 Counted

4 mfg

1 mfg

2 lfg

1 lfg

6 lfg

5 lfg

2 mfg

1 mfg

2 lfg

2 lfg

7 lfg

1 lfg

3 mfg

2 lfg

5 mfg

1 lfg

1 mfg

2 mfg

2 mfg

(14)

23/12/93 *Contd*

2 m → l. d.

4 s.f.

1 m f

1 l.f.

1 m f

1 y

2 l. d. → f.

1 l.f.

2 l.f.

2 l.f.g

2 l. d. g.

~~High~~ — (min 7 m → l. f. g.)

At point at 1155 hr.

↑  
of north shore

(15)

23/12/93 Lenth

✓d

✓d

✓d

1 lfy

5 lfy

5 l.d.y.

1 l.f.y.

1 m.f.y.

3 l. d. s. k. y.

3 lfy

1 l.d.y.

2 lfy

2 ldy

1 l d s k y

3 lfy

3 mfy.

3 mfy

1 lfy.

1 sly

1 lfy

16

23/12/93 Contd.

4 ldy

3 ldy

4 2 ~~find~~ f y

3 ldy

4 ldy

2 mfy

2 ldy

2 ldy

1 l d → l y

1 mfy

2 mfy

2 mfy

1 ldy

1 ldy

8 mfy

8 lfy

6 l d → l y

1 mfy

1 ldy

(17)

23/12/93 Contd

2 mky

3 l d → ky

3 mky

4 lky

3 lfy

1 lfy

1 l d → f

2 lfy

1 mky

1 l d.

5 mky.

1 mky.

1 l d → f.

6 lfy

1 lfy

1 lfy

4 lky

18

23/12/93 Contd

✓

4 lfy.  
1 mf

✓

1 lf.  
8 mf

✓

1 lf.  
1 lf.

✓

6 ldy  
4 ldy → f

✓

2 ldy  
4 mf

✓

1 lf.  
3 + ldy

✓

1 lf.  
2 lf.

✓

2 lf.

✓

2 ldy → f

19

23/12/93 Control

6 lf.

4 ml.

m → l d.

1 ml

1 lf.

2 l.d.

10 ml.

2 l.f.

3 l.f.

5 l.d → f.

1 ml

1 m → l d.

1 ml

2 s ~~mm~~ d.

4 l.f.

1 l.d.

2 ml

(20)

23/12/83 Contd

1 lfy.

✓d 5 m → l d.

2 lfy.

✓d 4 m lfy.

4 l d w b.

2nd point at 12.45 hr.

A on north side of Womnamp  
Embry

✓d 3 sly.

5 lfy.

✓d 2 lfy.

2 lfy.

4 sly.

2 lfy.

✓d 2 mly.

✓d 1 l d - R

11 mly

(21)

23/12/93 Lenta

2 lfg.

2 m.f.

1 lf

# 5 s.f.

6 m.f.

3 m.f.

1 lf.

1 l d → f

1 m.f.

9 l d.

3 m.f.

4 l d → f

4 l d

4 m.f.

10 l d.

6 l d → f

3 m → d d.

(22)

Corals counted in Mullins  
Creek section of Wonnamup  
Estuary



5 mdy  
3 ldy  
6 ldy  
4 mdy



(22)

Count counted in Melbays  
Creek section of Warrumbungle  
Escarpment



5 mdy  
3 ldy  
6 ldy  
4 mdy



(22)

Coast covered in mussels  
Outer section of Warrang  
Estuary

5 m dy  
3 l dy  
6 l dy  
4 m dy



(23)

23/12/93 contd

2 lot → h

2 m h

6 lot → h

1 m h

1 m h

3 m h

1 h f

1 s f

2 m h

1 h f

1 h f

1.07pm - Warrang automatic  
diesel generator has been  
removed - only gas  
pipe remains

(24)

23/12/83 Contd

Finish survey at 1.25 pm  
at Womun's Floodgate

WAWA gauge reads  $-0.07$  m AHD  
(measured)

Water level is higher on  
ocean side.

Automatic water level recorder  
(WAWA) is now next to  
gauge board ~~at~~ at Floodgate.



In this walk, I walked along  
north shore (~~to~~ E  $\rightarrow$  W) doing  
the counting, and Grant walked  
along S shore, keeping birds out

(25) a

mf - 4, 2, 1, 3, 2,

add to table below

~~the~~ (-7) ← a deduction  
of 7 eggs required -  
see 10 pages back.

Summary of Wounreap  
Estuary eggnet count

23/12/93

total

(25) 6

Very small downy

Small downy

Small → med downy

med → downy

med → large downy

Large downy

Large d → f

Small f

medium f

Large f

1, 2,

1, 5, 4

2, 2, 1, 1, 5, 3

6, 3, 1, 1, 4, 7, 1, 2, 2, 7, 1, 5, 1,

2, 4, 3, 4, 1, 4, 1, 4, 6, 2, 3,

1, 2, 1, 2, 3, 1, 4, 1, 6, 3, 1, 1, 4,  
2, 5, 4, 1, 1, 4, 6, 2, 6,

1, 2, 3, 4, 1, 3, 4, 5, 1,

4, 1, 10, 1, 2, 4, 2, 11, 2, 6, 3, 1, 3,

1, 5, 4, 1, 2, 1, 3, 5, 1, 1, 1, 1, 3,

3, 2, 1, 2, 2, 8, 1, 2, 3, 1, 5, 1, 1, 8, 4

5, 2, 1, 9, 1, 3, 2, 1, 3, 4, 2, 4, 2, 3,

10, 1, 2, 1, 2, 3, 2, 1, 6, 5, 2, 1, 2,

1, 1, 1, 1, 2, 2, 1, 5, 1, 3, 2, 3, 1,

1, 3, 2, 2, 1, 8, 3, 1, 2, 6, 1, 1, 4,

1, 1, 1, 1, 1, 2, 2, 6, 1, 2, 3, 4,

1, 2, 5, 2, 2, 2, 2, 1, 1, 1, 1, 1,

(25) a

mf - 4, 2, 1, 3, 2,

add to table below

~~6~~ (-7) ← a deduction  
of 7 eggs required -  
see 10 pages back.

Summary of Wombleup 23/12/83 contd.  
Estimating eggnet count

(25) b

Very small downy

Small downy

Small → med downy

med → downy

med → large downy

Large downy

Large d → f

Small f

medium f

Large f

1, 2,

1, 5, 4

2, 2, 1, 1, 5, 3

6, 3, 1, 1, 4, 7, 1, 2, 2, 7, 1, 5, 1,

2, 4, 3, 4, 1, 4, 1, 4, 6, 2, 3,

1, 2, 1, 2, 3, 1, 4, 1, 6, 3, 1, 1, 4

2, 5, 4, 1, 1, 4, 6, 2, 6,

1, 2, 3, 4, 1, 3, 4, 5, 1,

4, 1, 10, 1, 2, 4, 2, 11, 2, 6, 3, 8, 3,

1, 5, 4, 1, 2, 1, 3, 5, 1, 1, 1, 1, 3,

3, 2, 1, 2, 2, 8, 1, 2, 3, 1, 5, 1, 1, 8, 4

5, 2, 1, 9, 1, 3, 2, 1, 3, 4, 2, 4, 2, 3,

10, 1, 2, 1, 2, 3, 2, 1, 6, 5, 2, 1, 2,

1, 1, 1, 1, 2, 2, 1, 5, 1, 3, 2, 3, 1,

1, 3, 2, 2, 1, 8, 3, 1, 2, 6, 1, 1, 4,

1, 1, 1, 1, 2, 2, 6, 1, 2, 3, 4,

1, 2, 5, 2, 2, 2, 2, 1, 1, 1, 1,

(26)

23/12/93 Winta

### Wonnamp Estuary Totals

|                     |   |     |            |
|---------------------|---|-----|------------|
| V. small downy      | — | 0   |            |
| Small downy         | — | 3   |            |
| Small → med. downy  | — | 0   |            |
| medium downy        | — | 10  |            |
| med → large downy   | — | 15  |            |
| large downy         | — | 110 |            |
| large d → feathered | — | 61  |            |
| small feathered     | — | 24  |            |
| med. feathered      | — | 135 | (-3) = 132 |
| large feathered     | — | 185 | (-4) = 181 |

536

- These figures includes Quanta's ~~count~~ <sup>count</sup> of the Malbury Creek section.
- Note that the number of broods cannot be obtained from the above data due to mixing / dispersion.

(27)

23/12/93  
contd.

~~To Do~~  
- Measure distance to nearest beach  
for all nests.

- We drove back to Perth after completing the Wonerup survey.
  - Concluded that popular <sup>the</sup> "Wonerup Walks" along N shore if water level at or below that of this survey.
    - tight fitting Wellies (or high boots) necessary.
    - hats, drink & food.
  - Grade walks/ excursions according to degree of difficulty.
-

(28)

## TO DO

— measure distances between  
nearest nests.

— ~~delechnis~~

— ~~map~~ trap location of  
nests

— assess use of nests.

— usually peg a small sample

and radius of cleared areas  
of sample etc.

(29)

Start 4/1/94

Lebe Clifton - 4 Jan 94  
at 0905 hrs

± 3.98 m

✓ I

Wonnemup Estuary floodgate (Wonnemup)  
gate needs - 0.13 m AHD  
at 1125 hrs on 4 Jan 94

✓ d

↓  
Drove in thru Wonnemup House  
tracks to NE corner of paddock  
on S side of Melbourn Creek and  
west end of Wonnemup Estuary.

Installed datum (galvanised pipe)  
on estuary side of stainer post.

30

Worms B colony area

4/1/94

This is the area where nests have been deserted

| <u>Date</u> | <u>0.933</u> | <u>backlight</u> |
|-------------|--------------|------------------|
| 14639       | 1.391        | 1.572            |
| 14604       | 1.410        | 1.638            |
| 14549       | 1.233        | 1.648            |
| 14584       | 1.256        | 1.621            |
| 14699       | 1.521        | 1.610            |
| 14575       | 1.325        | 1.618            |
| 14605       | 1.402        | 1.620            |
| 14687       | 1.380        | 1.595            |
| 14626       | 1.103        | 1.571            |
| 14631       | 1.232        | 1.572            |
| 14698       | 1.306        | 1.549            |
| 14696       | 1.191        | 1.580            |
| ✓ 14619     | 1.195        | 1.580            |
| ✓ 14601     | 1.275        | 1.591            |
| 14607       | 1.180        | 1.602            |
| ✓ 14665     | 1.252        | 1.536            |

(31)

Marker

Nest Elevn.

Tues 4/1/94

Ground Elevn.

14656 1.304 1.592

14617 1.365 1.547

14645 1.244 1.534

14610 1.372 1.511

14684 <sup>datum</sup> temporary 1.319 1.555

14684 1.238 backstgd

14644 1.143 1.449

14624 1.256 1.448

## Description of Nest use

14624 — no egg fragments. **6**~~See above~~ New nest material.14644 — n. ef. — N. N. m. **6**14656 ditto ditto **6**14617 ditto ditto **6**14665 ditto ditto **6**14619 ditto ditto **6**

(32) 4/1/94

Marker No

needs  
checking

|       |       |           |
|-------|-------|-----------|
| 14696 | ditto | ditto - 6 |
| 14601 | ditto | ditto     |
| 14698 | ditto | ditto     |
| 14645 | ditto | ditto     |
| 14610 | ditto | ditto     |
| 14631 | ditto | ditto     |
| 14682 | ditto | ditto     |
| 14605 | ditto | ditto     |
| 14575 | ditto | ditto     |
| 14699 | ditto | ditto     |
| 14626 | ditto | ditto     |
| 14607 | ditto | ditto     |
| 14584 | ditto | ditto     |
| 14549 | ditto | ditto     |
| 14639 | ditto | ditto     |

Lunch till 2.15 pm

(33)

4/1/94

Marker

Nest Elev

Ground Elev.

14693

1.277

1.589

14574

1.302

1.588

14629

1.278

1.559

Isolates

nest moved

- much new

material

14664

1.201

1.683

14664

1.179

backlight

Watershed Island

14572

1.030

1.557

14620

0.995

1.619

~~14616~~~~1.180~~~~1.619~~

14613

1.049

1.585

14697

1.015

1.581

14636

0.961

1.572

34

4/1/94

Current water level (temp marker)  
= 1.625 at 2.58 pm

Eastern of the two islands

| Marker            | Nest Elevn       | Ground Elevn.    |
|-------------------|------------------|------------------|
| 14 676            | 1.261            | 1.580            |
| 14 658            | 1.251            | 1.724            |
| 14 519            | 1.089            | 1.600            |
| 14 503            | 0.998            | 1.618            |
| <del>14 515</del> | <del>1.332</del> | <del>1.660</del> |
| 14 518            | 1.160            | 1.644            |
| 14 632            | 1.200            | 1.644            |
| 14 635            | 1.000            | 1.592            |
| 14 597            | 0.984            | 1.569            |
| 14 612            | 1.206            | 1.726            |
| 14 582            | 1.006            | 1.731            |

(35)

4/1/96 Contd

| Marker No | Description of Nest Use                                                                   |   |
|-----------|-------------------------------------------------------------------------------------------|---|
| 14582     | no egg fragments -<br>much new nest material                                              | 6 |
| 14676     | ditto                                                                                     | 6 |
| 14658     | n.e.f. - new nest material                                                                | 6 |
| 14519     | ditto - ditto                                                                             | 6 |
| 14503     | 2 few egg fragments under<br>surface layer only<br>- much new nest material               | 3 |
| 14518     | no egg fragments - <del>photo</del><br>little or no new nest material.                    | 6 |
| 14633     | ditto                                                                                     | 6 |
| 14635     | photo - eggshells on<br>surface<br>material - much new<br>a little under<br>surface layer | 3 |

(36)

Marker

4/1/94

Description of Nest Use

14597

n.e.f. - m.n.m.m. 6

14612

n.e.f. - m.n.m. 6

14697

much egg f.-end membrane 1

photo

under surface layer - some  
(v. little) e.f. on surface

14613

ditto

- much. n.n.m. 1

14620

some e.f. on surface 3  
and just below surface  
- m.n.m.m.

14572

eggshell (large) rest  
do nest. and ditto 3

(37)

Marker

Description of Nest Use

4/1/94

14636

some eggs on surface  
much " f. below " 1  
much n. n. m

14664

1.179

backright  
photo - grass mound  
- n. e. f. 6

14693

a few e. f. on surface 6  
no e. f. beneath surface

14629

no. e. f.  
much n. n. m 6

14574

ditto ditto 6

Marker <sup>(38)</sup>

Elevation  
~~1.218~~ at ~~1.218~~ 4/1/94

14684

1.218 back sight

- no. e.f.

- some n.m.

6

14549

← photo

Datum

0.838

back sight

afternoon Lee hill 4.30 pm

[ Datum

0.990

back sight

[ Temp a)

1.265

-

[ " "

1.102

back sight

[ Temp b)

1.388

-

[ " "

1.220

back sight

Installed  
(39) pipe flush  
with ground

4/1/94 contd.

2nd  
Datum

1.404

—

1.627

backsight

backsight not used.

Photos

—

nest with 6 eggs

— nest 14517

~~6~~

Winnipeg Estuary Plankton (LAWA)  
gauge reading

= 0.17 m at 6.05 pm

(40)

Start of Wed 5/1/96

Wonsung Estuary Floodgate gate  
reads  $-0.14m$  at 8am.

↑ measured to nearest mm.

- c 25 pds in light feeding group  
200m SE of floodgate (on Estuary)
- c 200 Silver gulls on surface of water  
common, egret, spoonbill
- 1 pr GtTL with 9 Class II duckling  
at base of floodgate (Estuary side).

no discernible flow in or out  
(tide also low).

SE breeze blowing 0-10 kts.

(41)

WLB colony - main island

Wed 5 Jan 96 cont'd

2nd Detm 1.617 beachlight

water level

at 8.40 am 1.689

|       |       |       |
|-------|-------|-------|
| 14581 | 1.260 | 1.684 |
| 14561 | 1.145 | 1.626 |
| 14524 | 1.085 | 1.645 |
| 14515 | 1.118 | 1.599 |
| 14649 | 1.062 | 1.594 |
| 14657 | 1.316 | 1.578 |
| 14640 | 1.280 | 1.638 |
| 14654 | 1.230 | 1.578 |
| 14571 | 1.030 | 1.652 |
| 14586 | 1.039 | 1.685 |
| 14563 | 1.205 | 1.710 |
| 14694 | 1.095 | 1.684 |
| 14553 | 1.249 | 1.680 |

(42)

5/1/94

Marker

Nest  
Elevn.

Ground Elevn.

|       |       |       |
|-------|-------|-------|
| 14537 | 1.011 | 1.576 |
| 14538 | 1.204 | 1.729 |
| 14673 | 1.083 | 1.719 |
| 14531 | 1.135 | 1.712 |
| 14506 | 1.130 | 1.688 |
| 14591 | 1.147 | 1.721 |
| 14545 | 1.155 | 1.645 |
| 14557 | 1.133 | 1.671 |
| 14593 | 1.150 | 1.696 |
| 14680 | 1.071 | 1.678 |
| 14528 | 1.060 | 1.681 |
| 14682 | 1.135 | 1.729 |
| 14517 | 1.000 | 1.764 |
| 14678 | 1.165 | 1.666 |
| 14670 | 1.011 | 1.722 |
| 14552 | 1.115 | 1.698 |
| 14566 | 1.172 | 1.781 |

(43)

5/1/94

Marker

Nest Elevn.

Ground Elevn.

14530

1.195

1.750

14688

1.163

1.700

14625

1.206

1.810

14650

1.113

1.711

14615

1.226

1.710

1

— we moved the 6 eggs.

14686

1.213

1.660

14512

1.172

1.690

14551

1.005

1.680

14672

1.153

1.727

14642

1.025

1.708

14534

1.096

1.760

14675

1.238

1.713

14666

1.030

1.601

14634

1.065

1.630

14598

1.029

1.685

14668

1.025

1.680

! note

(44)

5/1/94

| Marker | Nest Elevn. | Ground Elevn. |
|--------|-------------|---------------|
| 14532  | 1.087       | 1.685         |
| 14616  | 1.029       | 1.675         |
| 14663  | 1.157       | 1.655         |
| 14554  | 1.312       | 1.700         |
| 14655  | 1.121       | 1.624         |
| 14677  | 1.134       | 1.680         |
| 14602  | 1.145       | 1.712         |
| 14606  | 1.204       | 1.730         |
| 14647  | 1.215       | 1.686         |
| 14618  | 1.326       | 1.682         |
| 14614  | 1.108       | 1.683         |
| 14653  | 0.951       | 1.634         |
| 14674  | 1.120       | 1.555         |
| 14622  | 1.120       | 1.654         |
| 14621  | 1.102       | 1.649         |
| 14611  | 1.114       | 1.660         |
| 14641  | 1.152       | 1.630         |

45

5/1/94

Marker

Nest Elevn.

Ground Elevn.

14628

1.093

1.668

14679

1.054

1.793

14576

1.100

1.597

14637

1.335

1.643

Marker

Description of Nest Use

14637

- no egg fragments

6

14638

- much e.f. under surface layer

1

- much new nest material

14679

e.f. under surface and on top

1

- a grass mound

14611

m. e.f. u.s.

1

m. n. n. m.

14641

ditto ditto

1

14621

ditto ditto

1

(46)

5/1/94

Marker

Description of Nest Use

14 576

ditto

ditto

1

14 622

m.e.f. u.s.

- a grass mound.

1

14 674

m.e.f.

6

14 663

~~a grass~~

m.e.f. on top of mound

- may have been deserted

4

14 677

remain of rabbit kitchen on top

- m.e.f. u.s.

1

14 655

ditto

~~to~~

1

14 653

ditto

1

14 614

ditto

1

14 606

ditto

1

14 606

ditto

(47)  
Marker

Wed 5/1/94  
Description of Nest Use

|       |                                                             |                   |
|-------|-------------------------------------------------------------|-------------------|
| 14647 | m. e. f. u. s.                                              | 1                 |
| 14602 | ditto                                                       | 1                 |
| 14512 | ditto                                                       | 1                 |
| 14686 | ditto                                                       | 1                 |
| 14650 | ditto                                                       | 1                 |
| 14625 | ditto                                                       | 1                 |
| 14688 | ditto                                                       | 1                 |
| 14672 | some e. f. u. s.                                            | 2                 |
| 14551 | m. e. f. u. s.                                              | 1                 |
| 14534 | some, e. f. on surface only                                 | 4                 |
| 14675 | m. e. f. u. s.                                              | 1                 |
| 14517 | ditto <sup>tan</sup> see <del>primary</del> <del>nest</del> | 1 <del>nest</del> |

(48)

5/1/94

Marker

Description of Nest-Use

14642

m.e. f.u. - S. 1

14678

ditto 1

14670

ditto 1

14566

ditto - 1

14530

ditto 1

14532

ditto 1

14593

ditto 1

14680

ditto 1

14682

ditto 1

14528

ditto - 1

14666

ditto - 1

14634

ditto 1

(49)

5/1/94

Marker

Description of Nest Use

|       |               |   |
|-------|---------------|---|
| 14598 | m. e. f. u. s | 1 |
| 14668 | ditto         | 1 |
| 14532 | ditto         | 1 |
| 14537 | ditto         |   |
| 14673 | ditto         |   |
| 14557 | ditto         |   |
| 14545 | ditto         |   |
| 14506 | ditto         |   |
| 14591 | ditto         |   |
| 14531 | ditto         |   |
| 14538 | ditto         |   |
| 14553 | ditto         |   |
| 14694 | ditto         |   |
| 14563 | ditto         |   |
| 14616 | ditto         |   |
| 14586 | ditto         |   |
| 14571 | ditto         |   |

(50)

5/1/94

Marker

Description of Nest Use

14654 difficult to search (green)  
- n. e. f. 6

14660 ditto 6

14657 ditto 6

14649 m. e. f. u. s. 1

14515 ditto 1

14524 ditto 1

14581 some e. f. u. s. 3  
- possibly 1 or 2 hatched

14561 no e. f. 6

14618 ditto 6

Temp marker 1.669  
~~1.670~~

14520 - nest missed - n. e. f. (low) 6

Temp marker - 1.744

eluv?

(51)

5/1/94

3 lowest points between  
island (long narrow) + shore  
— island end — 1.530  
— middle — 1.588  
— shore — 1.621

Nests on long narrow island

|       |       |       |
|-------|-------|-------|
| 14661 | 1.099 | 1.401 |
| 14648 | 1.092 | 1.480 |
| 14565 | 1.192 | 1.554 |
| 14501 | 1.056 | 1.552 |
| 14587 | 1.047 | 1.503 |
| 14603 | 1.163 | 1.520 |
| 14579 | 1.048 | 1.538 |

(52)

5/1/94

Marker

Description of Nest Use

14579

— n.e.f. — different  
to usual (young) 6

14 603

~~ditto~~, n.e.f. 6

14 587

ditto 6

14 501

ditto 6

14 565

ditto? 6

14 648

ditto 6

14 661

large egg pieces next to  
this isolated nest 5

~~Photo of this island~~

Photo of this island

estuary water level at 1150 hrs

= 1.777

(53)

5/1/94

Marker

Elevations

|                     |       |           |
|---------------------|-------|-----------|
| back to temp marker | 1.744 |           |
| temp marker         | 1.479 | backlight |
| back to 2nd Datum   | 1.425 |           |
| 2nd Datum           | 1.342 | backlight |
| temp marker         | 1.376 |           |
| " "                 | 1.731 | backlight |
| Datum No 1          | 0.953 |           |
| <del>Watson</del>   |       |           |

Finish at 1220 pm.

Downing Floodgate water level at  
1245 hrs = — 0.17 m AHD  
+ a tide gauge in —

(54)

5/1/94 contd

Lunch — Sonia finished +  
in Bsn. Grant started

Vance Estuary CANN gauge  
needs  $< 0.04$  m  
at 1427 hrs

Vance Estuary floodgate gauge (WAWA)  
needs —  $0.03$  m (Att)  
at 2.40 pm.

6th flap valve still closed  
open & water pouring in  
at depth of 1-2 cm.

WAWA workmen adding a board to  
stop this flow.

(55)

5/1/94

Wonseng floodgate WAWA gage  
board at 2.53 pm reads  
= - 0.155 (measured  
to nearest  $\frac{1}{2}$  cm)

Water leaving in

WAWA workmen (at Vasee floodgate)  
said ask John Mc Glenchy for location  
of benchmarks near floodgates.

Wonseng Estuary (E end) CACW  
gage reads 0.09 cm.  
at 3.05 pm

56

5/1/94 Contd

1 [ Seven Lake outlet channel  
bone dry on both sides of culvert.  
(Seven Lake dry - some water  
in downstream Estuary.  
- at 3.18 pm

d Lindero River dry at  
end of levee bank

d

Seven Lake at 3.50 pm

d is dry

Deton in front of Wallace's

d

D

1.249

(57)

5/1/94

Marker Nest Elev. Ground Elev.

old 68 (post 7) 0.951 1.439

14669 old 70 0.985 1.414

(post 8) 1.005 1.465

old 72 1.007 1.408

old 71 1.051 1.369

14651 0.983 1.406

old 73 1.016 1.459

old 79 1.048 1.329

old 78 0.888 1.394

old 76 1.406 1.472

(mound gone)

old 77 1.383 1.461

(mound gone)

old 81 1.329 1.461

(mound gone)

(58)

5/1/94

Marker

Nest Elevn.

Ground Elevn.

old 80

1.066

1.395

old 83

1.041

1.386

old 82

1.051

1.453

old 84

0.920

1.388

old 92

1.067

1.401

post 9

old 91

0.970

1.437

old 99

1.059

1.441

old 93

1.034

1.450

14662

1.138

1.465

old 86

0.955

1.483

old 88

1.085

1.618

post 10

14667

1.087

1.609

14609

1.072

1.603

14525

1.088

1.605

(59)

5/1/94

Marker

Nest Elev.

Ground Elev.

old 87

1.048

1.6

(post 11)

Datum again

1.249

sects

old 68

- no egg fragments near
- ~~seen~~ but old fragments deep
- no ~~new~~ <sup>prob. no</sup> nest material

~~old~~ 669

- ditto <sup>prob. no.</sup>
- ~~ditto~~ Some n. n. m.

old 70

- ditto <sup>prob no.</sup>
- no n. n. m.

old 71

- ditto <sup>prob no</sup>
- ditto

old 72

- no e. f. <sup>def. no</sup>
- no n. n. m.

old 73

- ditto <sup>def. no</sup>
- ditto

(59)

5/1/94

| Marker | Nest Elev. | Ground Elev. |
|--------|------------|--------------|
|--------|------------|--------------|

|        |       |       |
|--------|-------|-------|
| old 87 | 1.048 | 1.615 |
|--------|-------|-------|

(post 11)

|             |       |          |
|-------------|-------|----------|
| Datum again | 1.249 | but sigt |
|-------------|-------|----------|

|        |                                                                                                                  |  |
|--------|------------------------------------------------------------------------------------------------------------------|--|
| old 68 | - no egg fragments near surface<br>- <del>some</del> but old fragments deep<br>- no <del>new</del> nest material |  |
|--------|------------------------------------------------------------------------------------------------------------------|--|

~~156~~ 669

|                    |               |
|--------------------|---------------|
| - ditto            | prob. no.     |
| - <del>ditto</del> | Some n. n. m. |

old 70

|               |          |
|---------------|----------|
| - ditto       | prob no. |
| - no n. n. m. |          |

old 71

|         |         |
|---------|---------|
| - ditto | prob no |
| - ditto |         |

old 72

|               |         |
|---------------|---------|
| - no e. f.    | def. no |
| - no n. n. m. |         |

old 73

|         |         |
|---------|---------|
| - ditto | def. no |
| - ditto |         |

(60)

5/1/94

Marker

Description of Nest use

14651

n. e. f. u. s. **def no.**  
n. n. n. m.

old 79

- n. e. f. u. s. but  
many old e. f. deeper  
- no new n. m. **prob. no.**

old 78

- no e. f. u. s. but  
old e. f. deeper **prob no.**  
- no. n. n. m.

old 76

old 77

old 81

eroded to ground level. "  
"

old 80

- no. e. f. u. s.  
- no n. n. m. **def no**

old 83

- v. little e. f. u. s.  
- some n. n. m. (?) **prob no**

old 84

- ditto  
- ditto **prob no.**

(61)

5/1/94

Marker

Description of Nest Use

old 82

n. e. f. u. s.

no n. n. m.

def no

old 86

n. e. f. u. s.

much n. n. m.

def no

old 89

not searched

(not) used

def no.

no elevs.

- n. n. n. m.

old 92

- n. e. f. u. s. but

much old e. f. deeper

- n. n. n. m.

prob. no.

old 94

- old e. f. deep only

no elevs.

- some n. n. m. (?)

old 93

- n. e. f. u. s.

- no n. n. m.

def no

14662

- ditto

- ditto

def no

(62)

5/1/94

Marker

Description of Nest use

old 88

n. e. f. u. s

n. n. n. m.

def. map. photo

14667

- much e. f. u. s (deep)

- all new <sup>prob yes</sup> nest material

14609

- ditto

- ditto <sup>prob yes</sup>

14525

- ditto

- ditto <sup>prob yes</sup>

old 87

- much e. f. u. s

(prob 11)

- n. n. m <sup>prob yes</sup> on top of old

Datum  
again

1.223

Depth gauge reading (temp marker)

of 0.20 m → 1.460

*Amber*

(63)

5/1/94

Swan Lake depth gauge reading  
at 5.48 pm ~~is~~ ✓  
is 0.03 m

END OF DAY approx 6 pm.

Start of Th. 6/1/94

Walked in to Vasse A colony from N side

Marker

Nest Use Description

485

much e.f. under surface

— definite yes

1 ✓

484

ditto

— definite 1 ✓

483

— 1 whole egg on surface

— no e.f. under

— ~~did not find~~  
definite no

6 ✓

(64)

6/1/84

Marker

Nest use Description

482

- 1 white egg on surface  
- ~~much~~ some e.f. u.s.

- definite yes 1✓

272

much e.f. on end  
in surface layer

- def. yes. 1✓

273

- much e.f. u.s.

- def. yes 1✓

487

- ~~def~~ no e.f. u.s.

- def. no. 6✓

481

- ditto

- def. no 6✓

271

- v. few old fragments u.s.

- def. no 6✓

488

much e.f. u.s.

- def yes 1✓

~~488~~  
490

- no e.f. ~~reason~~

- def. ~~yes~~ no 6✓

(65)

6/1/94

Marker

Nest Use Description

491

much e.f. on + under S.

- def yes. 1✓

493

v. little eggshell on surface

- def ~~yes~~ no 6✓

492

much e.f. on + under S.

- def yes 1✓

494

- ditto

- def yes. 1✓

207

- ditto - def yes 1✓

unmarked

- ditto - def yes

"

- ditto - def yes

"

- ditto - def yes

"

- ditto - def yes

"

- ditto - def yes

"

- ditto - def yes

(66)

6/1/94

Marker

Nest use Description

291

much e.f. u.s.

def. yes

1✓

290

— ditto

— def. yes

1✓

no marker

much e.f. u.s. def. yes

437

ditto

—

def. yes

1✓

438

ditto

—

def. yes

1✓

9.30am

Leave Vase A (incomplete)  
and head for Vase B

— photo swan diggings

— photo egret at al tracks.

(67)

6/1/94

9.35 hrs.

Vasoc TB Colony  
unmarked much e.f. u.s.

abandoned effort - will  
come back with more markers & redo Vas TB  
photo of foot tracks in slope.

Head back to Vas A colony

at  
resume Vas A colony at 9.45 am

296  
(post 23)

much e.f. u.s.

- def yes 1✓

441

some old e.f. u.s.

- possible yes 3✓

295

much e.f. u.s.

- def yes 1✓

439

- old egg on surface

- n.e.f. u.s. def no 6✓

(68)

Member

Nest Use Description

6/1/84

440

- much e.f. u.s.

- def yes 1✓

442

ditto

- def yes 1✓

443

ditto

- def yes 1✓

292

2 added eggs  
under surface - def no. 6✓

444

n.e.f. - def no. 6✓

293

large piece of eggshell on  
surface - probably no 5✓

294

- much e.f. u.s.

- def yes 1✓

445

- some e.f. on and u.s.

- probably yes 2✓

446

- n.e.f. - def no 6✓

(69)

6/1/95

Marker

Nest Use Description

297

4+ added eggs on surface  
- def no. 6✓

448

much e.f. deep u.s.  
- possibly yes 3✓

298

much e.f. u.s.  
- def. yes 1✓

299

no. e.f. - def no. 6✓

300

much old ef. u.s. 3✓  
- possibly yes (??)

449

Some e.f. u.s.  
- possibly yes 3✓

450

no. e.f.  
- def no 6✓

post 26

inward gone - def no 6✓

post 25

" " - def no 6✓

(70)

6/1/94

Marloer

304

Nest Use Description  
egg pieces around base only  
- def no 6✓

301

(post 27)

def no. 6✓

281

(post 39)

def no 6✓

279

(post 28)

- much e.f. u.s.  
- def yes 1✓

452

ditto - def yes 1✓

280

Found this leg in ground  
next to 452 & peg.

460

- much e.f. u.s.  
- def yes 1✓

453

no e.f. - def no 6✓

(71)

Marker

6/1/94

Nest Use Description

282

difficult to search (grass) ✓

- no e.f. - probably no.  
some e.f. u.s.

283

(prob 31)

- def. yes 1✓

284

- added egg under s.

- too difficult to search ✓

285

chm?

- much e.f. u.s.

def. yes

286

- much e.f. u.s. (deep)

- def. yes 1✓

287

- much e.f. on & under s

- def. yes 2✓

288

chm!

- difficult to search - n.e.f.

- probably no

454

- much e.f. u.s.

- def. yes 1✓

(72)

6/1/84

Number

Nest Use Description

461 much e.f. u.s. - def yes <sup>7</sup>✓

277  
(post 30) ditto - def. yes. <sup>1</sup>✓

455 ditto - def yes <sup>1</sup>✓

463 2 added eggs on side of mound  
- few e.f. u.s.  
- def probable yes <sup>2</sup>✓

456 much e.f. u.s. def yes <sup>1</sup>✓

457 - v. difficult to search - n.e.f.  
- ~~prob~~ def. no <sup>6</sup>✓

276  
(post 29) n.e.f. - def no <sup>6</sup>✓

458 n.e.f. - def no <sup>6</sup>✓

459 ditto - def no <sup>6</sup>✓

(73)

Master

Nest Use Description 6/1/84

462

no. e.f. - def no 6✓

447

ditto - def no 6✓

269

much e.f. on + under s.

(post 34)

- def yes 1✓

467

no e.f. - def. no 6✓

289

no e.f. - def no 6✓

Note that all Vasa members have  
been placed at side of mound  
closest to car depth gauge.

468

n.e.f. - def. no 6✓

474

ditto - def no 6✓

473

ditto - def no 6✓

472

ditto - def no 6✓

(74)

6/1/94

Marker

Nest Use Description

471

much e.f. n.s. - def yes ~~1~~✓

469

ditto - def yes ~~1~~✓

475

ditto - def yes ~~1~~✓

466

ditto - def yes ~~1~~✓

464

ditto - def yes ~~1~~✓

275

much old e.f. deep n.s.

(post 33)

- probably no ~~5~~✓

465

- on "eastern" island in channel

- much e.f. just under surface

- probably yes (but looks oldish) ~~5~~✓

Marker **75**

Nest Use Description 6/1/94

478

n.e.f. - def. no. **6✓**

479

n.e.f. - def no **6✓**

480

much e.f. deep n.s. **1✓**  
— def yes

These 3 on "western" island  
in channel.

CAW gage at 1121 hrs  
reads  $-0.7$  cm  
ie  $-0.007$  m  
ie minus 7 millimeters

Wind has been blowing  $\text{S} - 10$  kts  
from SW all morning

- westerly flow of water visible  
at Van A.

(76)

Th 6/1/94

Vassal Estuary floodgate (Winnam)  
gate

reads — 0.05 m

at 1143 hrs.

↑ measured  
to nearest  $\frac{1}{2}$  cm

— extra plate put in yesterday  
by WWS at flap valve number 6  
(still claimed open)

— Water level now below all boards  
⇒ no flow.

— water level the same on both sides

---

LUNCH in BSN

---

(77)

6/1/94

SWAN LAKE

Start 1.20 pm

147

- v. few e.f. u.s.
- looks oldish.
- probably not that year

145

def. no

422

mod. e.f. u.s.

- def. yes

429

prob. not. n.e.f.

423

- 3 large egg remnants  
(eggs predicted) next to  
nest.

- v. few e.f. under s.
- probably not

(78)

6/1/94

421

small old mound e.f.  
under surface - probably  
~~not~~ yes

424

m. e. f. u.s.  
- def. yes

428

~~near~~ n. e. f.  
def. no

142

m. e. f. u.s.  
- def. yes

427

ditto - def. yes

426

ditto - def. yes

425

ditto - def. yes.

420

ditto - def. yes

(79)

6/1/94

|                               |                       |
|-------------------------------|-----------------------|
| 419                           | m.e.f. n.s. - def yes |
| 418                           | n.e.f. n.s. - def no  |
| 373                           | m.e.f. n.s. - def yes |
| 372                           | ditto - def yes       |
| 402                           | n.e.f. - def no       |
| <del>no 2 lines.</del><br>140 | m.e.f. n.s. - def yes |
| 405                           | n.e.f. - def no       |
| 406                           | ditto - def no        |
| <del>no 2 lines.</del>        | ditto - def no        |
| 407                           | ditto - def no        |
| 408                           | ditto - def. no       |

(80)

6/1/94

|     |                      |
|-----|----------------------|
| 416 | n.e.f. - def no      |
| 417 | ditto - def no       |
| 415 | m.e.f.u.s. - def yes |
| 414 | n.e.f. - def no      |

no return  
no marker

n.e.f. - def no

|     |                      |
|-----|----------------------|
| 411 | m.e.f.u.s. - def yes |
|-----|----------------------|

|     |                 |
|-----|-----------------|
| 410 | n.e.f. - def no |
|-----|-----------------|

|     |                |
|-----|----------------|
| 409 | ditto - def no |
|-----|----------------|

|     |                      |
|-----|----------------------|
| 392 | m.e.f.u.s. - def yes |
|-----|----------------------|

|     |                 |
|-----|-----------------|
| 393 | ditto - def yes |
|-----|-----------------|

|     |                 |
|-----|-----------------|
| 394 | n.e.f. - def no |
|-----|-----------------|

|     |                      |
|-----|----------------------|
| 396 | m.e.f.u.s. - def yes |
|-----|----------------------|

(81)

6/1/94

395

n.e.f. - def no

no marker  
no stem.

n.e.f. - def no

398

m.e.f. u.s. - def yes

200

ditto - def yes

399

n.e.f. - def no.

371

m.e.f. us - def yes

no marker

old e.f. v. deep

no stem.

- def no

201

m.e.f. u.s. - def yes

202

ditto - def yes

204

ditto - def yes

(82)

6/1/84

no member  
no elem.

m.e.f.u.s. — def yes

390

ditto — def yes

391

n.e.f. — def no

389

m.e.f.u.s. — def yes

383

ditto — def yes

no member  
no elem.

ditto — def yes

206

ditto — def yes

385

ditto — def yes

no member  
no elem.

n.e.f. — def no

no member

ditto — def no

no elem.

(83)

6/1/94

381 m.e.f.u.s. - def yes.

382 n.e.f. - def no

380 n.e.f. - def no

143 m.e.f.u.s. - agree old data  
- probably yes

146 m.e.f.u.s. - def yes

431 ditto - def yes

148 n.e.f. - def no

finish 2.45 pm  
drive back to Ruth.

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(84)

TO DO NEXT TRIP (18-20/1/94)

- Visit Wallace's - pick up sheets  
- average invoice \$50.00
- Count all eggs on Vase + Warrump
- Finish describing use of nests at east end of Swan Lake
- Find out location of benchmarks near Vase + Warrump floodgates.

(90)

$$4m \times 1 \times 0.5 \times 13 = 2.6m^3$$

$$2 \times 12 \times \frac{2.54}{100} =$$