

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	⁰⁸ ~~(03-07-94~~ / 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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<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
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

Jim Lane's Field Notebooks Index

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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.~~

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

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

Revisited E section of
Swentala to verify last
week's descriptions of Swen nest use

23/12/93 Lmbel

- [photo of nest 168 -
- amphure growing up from it
- eggshell fragments - 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 every fragment 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 + shell.

- 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

Ref: 11

~~-27, 1, 56, 1~~

m. f. g.

4/14/11

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 Countd.

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 lfy

4 2 ~~fy~~ f y

3 ldy

4 ldy

2 mfy

2 lfy

2 lfy

1 l d → l y

1 mfy

2 mfy

2 mfy

1 ldy

1 lfy

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 Wonnemup
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 Lintol

Finish survey at 1.25 pm
at Womung'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

Wonnemup 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~~ ^{count} 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 ^{the}
"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

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

✓
Drove in thru Wonnemys House
tracks to NE corner of paddock
on S side of Melbourn Creek and
west end of Wonnemys 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 ^{datum} 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
~~14 515~~	~~1.332~~	~~1.660~~
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 - 6
much new nest material

14676

ditto 6

14658

n.e.f. - new nest material 6

14519

ditto - ditto 6

14503

2 few egg fragments under
surface layer only 3
- much new nest material

14518

no egg fragments - ~~photo~~ 6
little or no new nest material.

14633

ditto 6

14635

photo - eggshells on 3
surface
material - much new
a little under
surface layer

(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) nest
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

backlight
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 ⁽³⁸⁾

Elevation
~~14549~~ at ~~14549~~ 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

(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 ^{tan} ~~see previous record.~~	1 ~~also?~~

(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

i. 669

Temp marker

~~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	
Watson		

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) CACM
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 0.985 1.414

old 70

(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~~ ^{prob. no} nest material

~~14~~ 669

- ditto ^{prob. no.}
- ~~ditto~~ 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

(59)

5/1/94

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

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

(post 11)

Deton again	1.249	but sigt
-------------	-------	----------

old 68	- no egg fragments near surface - ~~some~~ but old fragments deep - no ~~new~~ nest material	
--------	--	--

~~156~~ 669

- ditto	prob. no.
- ~~ditto~~	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

prob. no.

- n. n. n. m.

old 94

- old e. f. deep only

no elevs.

- some n. n. m. (?)

old 93

- n. e. f. u. s.

def no

- no n. n. m.

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 ^{prob yes} nest material

14609

- ditto

- ditto ^{prob yes}

14525

- ditto

- ditto ^{prob yes}

old 87

- much e. f. u. s

(prob 11)

- n. n. m. ^{prob yes} on top of old

Datum
again

1.223

Depth gauge reading (temp marker)

of 0.20 m → 1.460

[Signature]

(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✓

~~489~~
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 droppings

— 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

282

Nest Use Description
difficult to search (grass) ✓
- no. e.f. - probably no.

283

(post 31)

some e.f. u.s.
- def. yes 1✓

284

- added egg under s.
- too difficult to search ✓

285

clim?

- 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

clim!

- 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 ⁷✓

277

(post 30)

ditto - def. yes. ¹✓

455

ditto - def yes ¹✓

463

2 added eggs on side of mound
- few e.f. u.s.

- def probable yes ²✓

456

much e.f. u.s. def yes ¹✓

457

- v. difficult to search - n.e.f.

- ~~prob~~ def. no ⁶✓

276

n.e.f. - def no ⁶✓

(post 29)

458

n.e.f. - def no ⁶✓

459

ditto - def no ⁶✓

(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.

LAKE gauge 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)
gauge

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
~~no 2 lines.~~ 140	m.e.f. n.s. - def yes
405	n.e.f. - def no
406	ditto - def no
~~no 2 lines.~~	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 elem.
no member

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.

(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)

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

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