

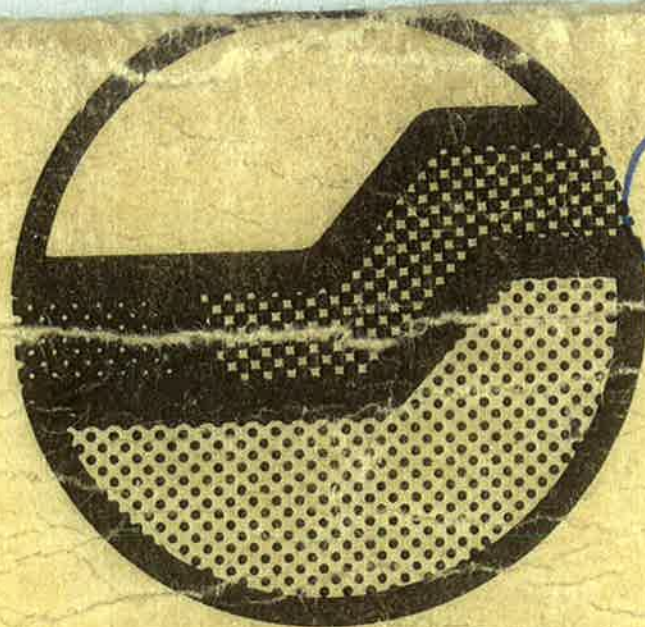
<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1970-84)_19	1984	(15-03-84 / 16-03-84)
JL_(1970-84)_20	1984	(20-09-84 / 05-75)
JL_(1992 on)_1	1	(03-11-92 / 03-08-93)
JL_(1992 on)_2	2	(04-08-93 / 18-09-93)
JL_(1992 on)_3	3	(18-09-93 / 26-10-93)
JL_(1992 on)_5	4	(27-10-93 / Dec-93)
JL_(1992 on)_6	5	(14-12-93 / 22-12-93)
JL_(1992 on)_7	6	(23-12-93 / 06-01-94)
JL_(1992 on)_8	7	(18-01-94 / 18-03-94)
JL_(1992 on)_9	8	(21-05-94 / 08-07-94)
JL_(1992 on)_10	9	(03-07-94 / 02-09-94)
JL_(1992 on)_11	10	(02-09-94 / 17-11-94)
JL_(1992 on)_12	11	(22-11-94 / 9-03-95)
JL_(1992 on)_14	12	(15-03-95 / 01-04-95)
JL_(1992 on)_15	13	(02-04-95 / 07-04-95)
JL_(1992 on)_16	14	(07-04-95 / 29-04-95)
JL_(1992 on)_13	15	(29-04-95 / 17-05-95)

TO BE CONTINUED

Jim Lane's Field Notebooks

(INDEX)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
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)
JL_(1970-84)_18	1982-83	(13-03-82 / 18-03-83)



3

DEPT. OF CONSERVATION
AND LAND MANAGEMENT

(09) 405 5700

NAME J. LANE

BOOK NUMBER _____

commenced 18 / 9 / 19 93

completed 26 / 10 / 19 93

①

maybe from Robert Linton

8

Phosphogen - 2 kg bucket

Macrocoste - bulk

500 gm \$3.50

25 kg \$68.70

9 mlbs
on label

from Nursery Snyder
Hewdale

3 Bradford Hewdale

"Soils and Soils
Baker Rd.

353 2536

Muro

451 1344

455 1323

A. R. Rickard

Phosphogen 250 lb
1255 \$2.85

1250 lb
\$9.75

\$30

3.5 kg 7.000 lb

3444333
191 Baker Rd
Birmingham
409 944

①

maybe from Robert Canton

8

Phosphogen - 2 kg bucket

Macrocole - bulk

500 gm \$3.50

25 kg \$68.70

9 mlbs on below

from Nursery Snyder
Wendale

3 Breaded Wendale

Soils and Soils
Bacteria etc.

353 2536

Mince

451 1344

455 1323

A. R. Rickard

Phosphogen 250 lb
1255 \$2.85

1250 lb
\$9.75

\$30

3.5 kg 7.000 lb

3444333

191 Botanical Rd

~~409 9411~~

(2)

9

would
biggest bath, be

~~1675~~

could take 1730

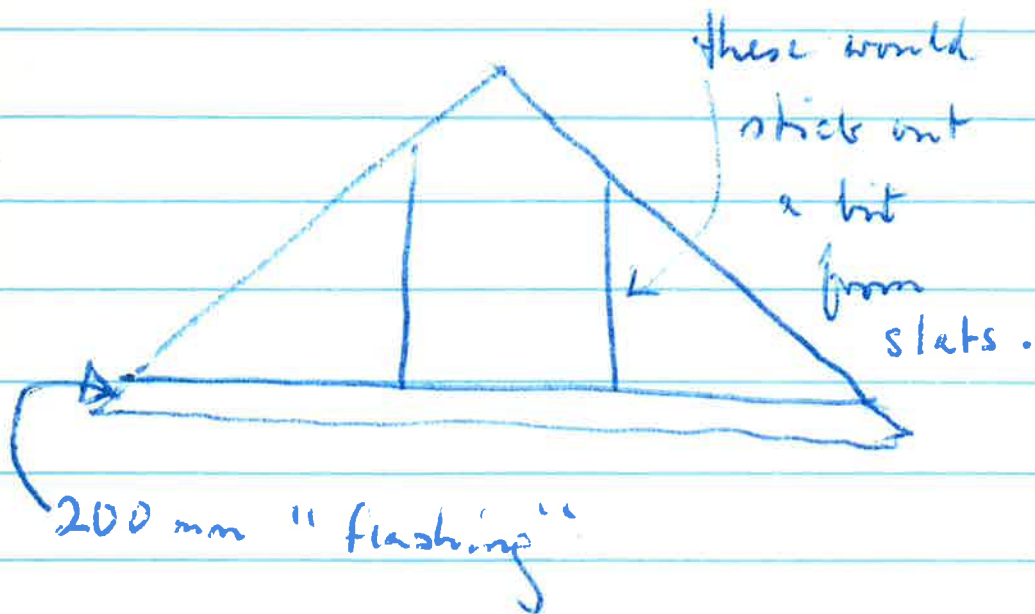
↑ in the opening.

Neil sets in wells

generally at 450 mm.

8

10



19 mm thick slats

Probably 200 mm wide
and angle of around 45°
Architect would be advised
by tradesmen

(4) See previous Notebook

11

18/9/83 contd

1056 Ls — down into Estuary
View Rd on north side of
Vance Estuary (near outlet
channel) — scores of
swans but no cygnets.

1105 Ls Vance Floodgates

depth gauge = + 0.48 m AHD

Three boards are in place
and the water is flowing
out over the top of them
to a depth of 1 - 2 cm
(mainly by wind-driven
wave action)

(5)

18/9/93 12
Cooled

1115 hrs Womung Floodgates

1 pin down with 4 eggs
on open water on upstream
side of floodgates.

gauge reading = + 0.17 m AHD

Note that no boards have
been installed in these floodgates
- why??

Water flowing out slightly.

The 1 nest mound on the long
river bank is just upstream
of the ^{Womung} floodgates has no cover
on it and none in vicinity.

(6)

18/4/93

13
Contd.

1134 lake on road
(north side of)

- 1 pr seen with 6 small
dormy eggs in "drain" leading
from culvert to lake.

- 1 pr with 6 ^{small} dormy eggs.
- ditto

total of 5 broods scattered
over the pasture to south
& east of the lake.

1146 ^{hr} lake a little further east

- 1 pr moved onto lake from
pasture with ~~7~~ 7 larger
dormy eggs.

(7)

18/9/83
14
Contd.

// left 4 other packets with St
for safekeeping till next
day to BSN

Ring BSN - states - decisions
need 47m of mylar for cap seal.

⑧

~~23~~

15

~~23~~ 23/9/93 - telephoned
Sue Wallace

— in all the years they
have been there, they have
never seen gulls crossing
the levee bank between
"Swan Lake" and the
Wormsby wharf.

— she recently saw a
WB Sea Eagle take a
duckling.

(9)

16

Tues 28 SEP 93

Lake Clifton - 9.45 am

depth gauge ready - 4.28 pm

Agart Swamp (Crested)

~~depth gauge ready -~~

Lake is dry - 1035 hrs.

Lake bed dried at

depth gauge = 0.09 cm

Drive in to E end of Swan Lake (Bsn)
at 1110 hrs.

WFLet, Wille Wylt, Wlthm, S2B
in flooded sedge meadow

Padd + shell in pools in sedge

(11)

28/9/93 contd
17

Algal + macrophyte growth prolific
in pools in anywhere.

At the E end of the Swan Lake
at 1120 hrs - 2 Whistly Wites
perched on fence posts. Another
flying high over the colony.

44 sitting on shore nests

5 standing on " "

49

1135 hrs.

- Count of Broods & Cygnets at East end
- 1 parent with 4+ cygnets feeding in
flooded sedge
- ditto with 2+ cygnets

(12)

28/9/93 contd.
~~18~~

- 1 pr swans preening with 3+ eggs
also preening
- 1 pr feeding with 3+ eggs also
feeding - flooded sedge
- 1 pr with 5 eggs preening -
flooded sedge 4 coming over water
- 1 preening with 4+ eggs
- 1 pr with 4 eggs preening at edge of
flooded sedge
- ditto
- ditto with 5 eggs - water
plus 1 egg sitting on back = 6
active
- 1 standing on mud with 4+ eggs
sitting there also

1202 Lr

392

Total: 10 broods (4+, 2+, 3+, 3+, 5, 4+,
4+, 4, 6, 4+)

(13)

28/9/93 contd
19

Counts of Shel + other birds at E end

- 1 ♀ shel ^{active} sky on rest mound
- 1 ♂ shel ^{active} sky on rest mound
- 5+ ducklings (Class I) on adjacent rest mound and in lusher ground

- 1 pr shel and 4+ ducklings (Class I) preening on active rest mound.

- 1 ^{probable} little egret at edge of lake
(= flushed anywhere)

East end of Swan Lake at
leave 1210 hrs.
^

(14)

28/9/93 cont'd

20

Count of Nesting Swans in Western half of
"Swan Lake"

4 ^{swans} sitting on active nests
4 standing on active nests
8

1220 hrs.

Count of Cygnets + Broods at West end

- 1 swan with 5+ cygnets feeding in flooded sedge bed
- 1 pr with 3+ cygnets feeding in flooded sedge bed.
- 1 swan standing feeding on wet ground with 1+ cygnets
- 2 cygnets sitting on ground nearby, pecking
- 1 pr with 5+ cygnets feeding in flooded sedge bed

(15)

28/9/93 could
21

- 1 swan with on subside mound with 2+ eggs
- 1 pr preening with 5+ eggs also preening
- 1 pr with 5 eggs feeding in very flooded sedge
- 1 swan feeding in flowered sedge with 5+ eggs
- 1 pr with 6 eggs feeding in very flooded sedge

Depth reading = 0.51 m at 1240 hrs.

- 1 pr with 2+ eggs ^{feeding} in flooded sedge

(16)

28/9/93 contd
22

Mozambique's bed for first
time - at veranda of
house

- 1 swan with 5+ eggs partly
flooded sychnis
- 1 pr ducks with 7 eggs
- 1 pr preening with 5+ eggs preening
on mound (non active)
- 1 pr with 2+ eggs preening at
edge of flooded sychnis
- 1 swan standing on mound pulling up
nest material + adding it to top of
mound - 1 large downy egg with
black feathers appearing on head also on mound

(17) a 28/9/93 contd

Total Broods in Western half
of Swan Lake = 18 ✓

5+, 3+, 1+, 2, 5+, 2+, 5+,
5, 5+, 6, 2+, 5+, 7, 5+,
2+, 1, 5, 5
brood sizes

Total Broods in entire "Swan Lake"

~~40~~ = 10 + 18 = 28 broods

(39+ plus 71+)

= 110+ cygnets in
these 28 broods

(17) b



28/9/93 contd

23

- 1 swan feeding - flushed

these 28 broods

(17) 6



28/9/93 count 23

- 1 seen feeding - flooded
surface with 5 eggs

- ditto - 1300 hrs

Count of Shel broods + other birds in W half

- 1 pr Shel sitting on mound (active ??)

- 1 pr ^{Shel} feeding - with flooded
surface with 8+ Class II eggs
ducklings

- 1 pr Shel standing on active
mound with 3+ ducklings sitting
on it also

1 LPP on fence post over lake water 1.05 pm

also 2 more Wttn feeding in
marsh

(18)

28/9/93 contd
24

Grant counted 230

adult swan in the
entire "Swan Lake" 1.05 pm

Deaths copied from Wallace's
data sheet

16/9/93 - 7.00 am - 0.5 km

20/9/93 - 4 pm - 0.5 km

26/9/93 - 7.45 am - 0.5 km

in Swan Lake

Note that all the cygnets seen were

white/grey downy, ~~that~~ except
for the one which had black feathers
appearing on its head

(19)

28/9/93 could

25

Totals

Swan Lake Totals

	East	West	Totals
Swans sitting on active nests	44 ✓	4 ✓	48 ✓
" standing " " "	5 ✓	4 ✓	9 ✓
Total	49 ✓	8 ✓	57 ✓

LUNCH

2.10 pm From edge of lake on
left hand (E) side on way to
the Vasee Colony.

1 ~~Arctic~~ new ruffled

1 PADD

(1 Bskite hovering overhead)

1 WFTW

1 Whistly bird over "com"

3 ~~Blue~~ Purple Swallows in syphon
at edge of lake

(20)

28/9/93 ^{world}
26

1 pelican swing in "arm"
at south end

Frog heard at north end of "arm".

1 kestrel over pasture

2 Magpie larks on pasture

2 Grey teal

1 Bf Cuckoo Shrike } on top of

1 Willow Warbler } ~~in~~ ⁱⁿ sedge bed.

1 Song Sparrow flying low over pasture.

2.30pm Circular lake on left

- 2 swan, 1 ♂ skel + 5 ♀ skel,

1 Pipit in sedge bed.

(21)

28/9/93 contd
27

2.45 pm well in round N
side of chamber lab

- 1 Wttn ~ sagittal
- several
- ~~1~~ LgtB head ~ "

3pm at Vasse A+B colonies

- 1 swim with 1 eggnet
- ditto
- ✓ 1 pm swim with 4 eggnets
- ✓ 1 pm swim with 4 eggnets
- " — 3 ~

— ditto.

Total Broods in Vasse A+B areas = 6 $\begin{bmatrix} 1, 1, 4 \\ 4, 3, 3 \end{bmatrix}$ ¹⁶

5.15 pm " Vase A" colony

21 ~~17~~ Swans sitting on active water
0 ~ steady

3.30
hr

21 ~~17~~

(22)

28/9/93 cont'd
28

VesB colony swans

- 78 sitting on mounds

- 0 standing -

78

1333 hrs.

Also 2 swans sitting on
active mounds on far (S)

Shanklin 3.20 pm
(not in VASA or VesB colonies)

Geese change" frogs = flooded mead
to west of our observation point.

VesA — 1 ♂ ^{preening} Shet on active mound

ditto

Other species
on swan nest
mounds

— pr Shet preening on
active nest mound

— 1 Pet standing on active
mound -

(23)

28/9/93 contd 29

Vas 3 - 1 ♂ Shal study
on active nest mound.

Several LiGB and Willie Wagtails
heard calling behind our
observation point.

Nest colony depth gauge = 0.51 m
at 13.34 pm

Pegged Nest Mounds & Swans

- Nest mound with peg N° 25 is active
and has even sitting on it (incubating)

- Peg N° 38 has active mound with swan
sitting on N side of it

(24)

28/9/93 contd
30

= Peg N° 40 has chain moved to
North (NE?) of it with
chain sitting

3.45 pm one new chain
found across south shore
of lake on north side
of stream, opposite ^A ~~Ves~~ colony.

Vesle Floodgate 4.15 pm
depth reading = +0.46 m AHD
~~is~~ - This is the ²⁰ height of
-- of the -- boards

The ^{top} board near the
gauge is out + ^c 20 cm depth
of water is flowing out.

(25)

28/9/93 cont'd

31

Wonnup floodgate water level
at 4.25 hrs

= + 0.12 m AHD

is lower than on
other side of floodgate

— still no stop boards in
this structure — why?

4.45 pm 1 Swan sitting on wire

nest mound on levee on

south side of Degman Rd

just east of Ben townsite.

— also 1 PeBD with 4 + Clas III

chickadee

— also 1 coot on nest in rushes

+ 1 Dusky Moorhen on nest at base of
Melaleuca cuttings.

(26)

28/9/93 contd

32

Note that all the egrets
seen in the vicinity of
the VesA and Ves B colonies
on 28/9/93 pm were
pure grey or white downy
egrets.

Note also that I didn't take
any photographs on 28/9/93

Nest trip - Sunday premises

at Broadwater - Sept + Oct

- attend. ^{end of} Coltsworth St near
cuckoo.

- Flora of Ambleside - Chrysomelids

- take aerial photos

- "Gladiators"

(27)

Wed 29/9/93

33

To Do

- need notes for meeting
- Grant place Warrup
depth gauge
- us check W on A + B colonies
- Grant do bird surveys
in pools etc
- pick up skin pickets
- see Robyn Forrest re
cynets + levee bank

Next year

- tower
- collect cynets - feed on
mosquito larvae?
- monitor sediment

(28)

34

To do

- do aerial photos
- AHC \$17,000

- get Lora Letchford down to
look at symphonies to include
in Recovery Plan proposal.

Wed 29/9/93

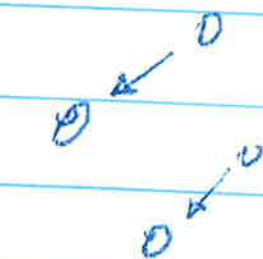
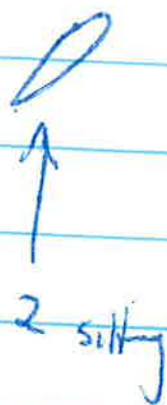
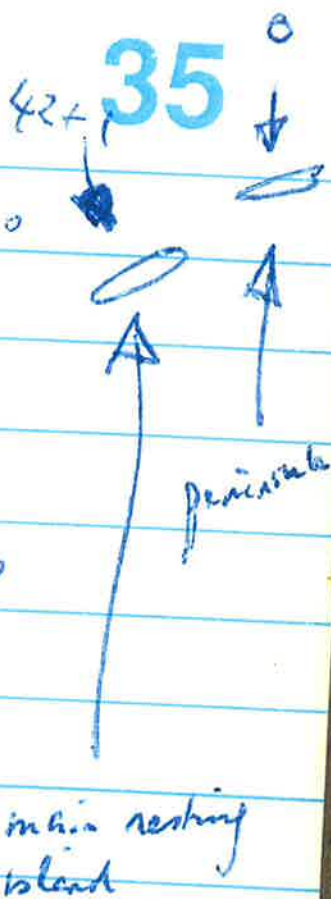
3pm
5
Worren
1pm
with 4
3
5
44
?
?
?

↑

get all brood sites.
Those counted were 4, 3, 5, 4, 5

(29) Wed 29/9/93

~~Wet~~



4 " Won B colony 3pm

Sirens sitting on ^{active} nests

$$= 2 + 0 + 0 + 0 + 42 + 0 = 44$$

Sirens standing on active nests = 45

(30)

All these cyprets (seen) were
pure white/grey downy.

Also 29/9/93 3pm
~~Also~~

19 broods (may have been 21 -
at least 2 "broods" seemed to
be composite merged broods)

in the area W + S
of the main Womb Nesting
island. Unable to
get all brood sites.
Those counted were
4, 3, 5, 4, 5

(29) Wed 29/9/93
~~Also~~

42+1 35
A A A

(31)

36

Went A colony 3.45 pm

1 swan standing on a nest
noticed that no longer appears
active

It was raining so we left
for home!

no egret birds seen

fine & sunny - 15 knots E breeze
breeze 1012 hrs.

32

TUES 12 OCT 93

37

Lebe Cl. flow — 0930 hrs

Depth gauge = 4.28 m

Forest Rd road entrance to
"Swan Lebe" (Wonsung).

9 PABD, 3 Shel, 2 Wfthn
and 1 mudflat in flooded
sedgebed just on north side
of track on way in.
1 Willie wright on fence line.

1050 hrs — 1 Swan Heron flying
over sedgebed
of Swan Lebe.

Large P.C. + small 21

3
3

(33)

12/10/93
38 Contd.

adult owens
1105 hrs 24 sitting on "active nests"
9 standing on formerly active nests
33

Of these, ~~22~~ 22 are sitting
in an "incubation position", with
no eggs visible. Use this
number (22) for No. of "active nests"

- 1 adult 4+ eggs fully incubated
- 1 pr with 3+ eggs
- 1 pr with 4+ "
- 1 adult with 3+ "
- 1 " - 5 "
- 1 - - 5 "

✓
6 broods

✓
24+ eggs

Page
~~page~~
total

(34)

12/10/93 cont'd

39

- 1 adult with 6 eggs on nest mound

- 1 pr with 3 eggs fully in water at edge of flooded sedge

- 1 pr with 5 eggs feeding in flooded sedge

- 1 adult with 3+ - - -

- 1 pr with 5 - - -

with blackish heels + necks

- 1 pr with 5 + eggs feeding in flooded sedge

- 1 pr with 5 + - - -

- 1 adult with 3 - - -

- 1 adult preening on mound with 2 eggs resting

9 broods with 37 + eggs

Page 39
Total 39

(35)

1134 hr

12/10/93 Cont'd
40

- 1 pr with 4 eggs - 1 adult + 1 egg resting/preening on mound. 1 adult + 3 eggs feeding in flooded region
- 1 pr with 4 eggs feeding in flooded region - debussing feces.
- 1 adult with 3+ eggs feeding in flooded region
- 1 pr going next to mound with 6 eggs resting on it
- 1 adult with 6 eggs along banks edge of lake

1144 hr

5 broods with 23⁺ eggs

page total

(36)

12/10/93

Totals (broods + eggrets)
for East end of Swan Lake:

Broods

6✓

9✓

5✓

20✓

Eggrets

24✓+

37✓+

23✓+

84✓✓



(35)

1134 hr

12/10/93 Cont'd
40

← 1 pr with 4 eggrets - 1 adult
+ 1 eggret ready/present on

(37)

12/10/93 Cont'd 41

1152 hrs West End of Swan Lake

- 1 adult with 4 eggs feeding & flushed anywhere
- 1 adult with 3 eggs (black?) faces) preening in anywhere
- 1 pr with ~~2~~ 4 eggs resting on nest mound.
- 1 pr with 5 eggs feeding & anywhere
- 1 pr with 1 " " " "
- 1 adult with 5 " " " "
- 1 " with 7 resting on nest mound
- 1 pr with 7 eggs feeding & flushed anywhere

8 broods with 35 eggs ✓

page total 3

(38)

12/10/93 cont'd
42

1201 hrs

- 1 pr adults with 4+ eggs & fully
flooded system

Depth gage: 0.52 at 1204 hrs

- 1 adult with 5+ eggs present in
system
 - 1 pr with 6+ eggs & fully
flooded system
 - 1 pr with 7 " " " "
 - 1 pr with 4+ " " " "
 - 1 adult with 3+ " " " "
 - 1 pr with 4+ " " " "
 - 1 adult with 3+ eggs resting on nest mound
 - 1 pr with 2+ fully in flooded system
 - 1 " " 4+ " " " "
- 10 broods with 42+ eggs

(39)

43

1214 hrs

12/10/93 Cont'd

- 1 pr with 4 + eggs & young in flooded area
 - 1 pr with 2+
 - 1 pr with 3+
 - 1 pr with 3+
 - 1 pr with 1+
 - 1 pr with 2+
 - 1 pr with 5+
 - 1 pr with 6 eggs & young in pool in flooded pasture (part of "Swan Lake")
- 1226 hrs { 8 broods with 26+ eggs

Total of 3 swans sitting on active mounds (inactivity) in West end of Swan Lake - None standing over active mounds. Many standing over formerly active mounds.

Whole of Swan Lake for 12/10/93

4



(40)

4

12/10/93 Contd 44

1233 hrs

Total of 278 swans (adults)
counted on whole of Swan Lake

Cygnets data from Wallace's
second sheet.

28/9/93	1-10/-	0.51 m
30/9		0.50 m
3/10		0.5 m
6/10		0.5 m

Swans on Active Nest

	Sit	Stand
Rest land	22 ✓	0 ✓
Active n	3 ✓	0 ✓
	25 ✓	0 ✓

3

3

(41)

12/10/93

Totals (Broods + Cygnets)
for West end of Swan Lake

Broods

Cygnets

8 ✓

35 ✓

10 ✓

42 + ✓

8 ✓

26 + ✓

26 ✓

103 + ✓

East End

20 ✓

84 + ✓

→ 46 broods ✓

187 + cygnets ✓

~~46 broods~~

~~187 + cygnets~~

Whole of Swan Lake totals
for 12/10/93

↑



(40)

↑

12/10/93 Cont **44**

1233 hrs

Total of 278 swans (adults)

(242)

12/10/93 45

Contd

1250 hrs - C&H's depth
gauge installed near east
end of Womeroo Estuary
read 0.52 m (same
as "Swandale" — but
set at different heights)

Agreed to be many (100's)
of mussels/shellfish near
depth gauge.

1.10pm - took photos of W&H's
mussel beds in Womeroo
flats — just started — no
visible flow — water level
much higher on ocean side

23

23

(43)

12/10/93 Control

46

of flap valves.

Winery floodgate page (WATW)
1.10pm = + 0.29 m AHD

^{Estuary}
Vorse floodgate = + 0.48 m AHD
at 1.20pm.

WATW foreman (?) said
that in the past 2 summers
(Fennay) — but not in
previous years — they opened
the Vorse Estuary floodgate to
release a big mass of
sludge that had accumulated
at the gates — He indicated
it had backed up approx.

(44)

12/10/92 Contd

50 metres (my guess)
from the floodgates. He
said if it gets any
bigger (in future years) it
may be impossible to flush
out.

2.20 pm Lake on south side
of Leymen Rd just east of
Ben. townsite. — the
single swan nest mound
is now unoccupied — for
first time since I found it
— couldn't see swan or eggs
6pm. — same as 2.20 pm

(45)

12/10/93
contd.

6.05 pm

Quinn birds around the
wetland were at the

peak of blooming approx
4 weeks (2 trips) ago.

At the last trip (2 weeks
ago) they were just starting
to brown & wither (the

flowers). On this
trip they are well
into withering (say
~~1/2~~ 1/3 withered).

6.20 pm

Matta flying low over
extensive "corn" on east side
on way into Vesset colony.

↑ some ducks, including 2 Headed

(46)

12/10/93

could

6.30pm

Counter 1cbe on east side of track in
e30 (counted 25) PaBD

5 Swen

8 Shet

Small swarm of midges
reset to "estuary" (east
side of track) at 6.35 hrs.

Saw much larger swarm at
east end of "Swanlake" over

sagebrush marsh this morning
These are the first big swarms

I have seen since beginning
project in June ('93)

(47)

12/10/93 contd

6.45 pm driving back to BSW
along Leyland Rd at dusk
on balmy evening there
were many small → large
midge swarms all the
way to the edge of
town. Wombles
gathered with dead midges.

Note that the WSWAT foreman
told me this morning that 3 yrs ago
the Wombles floodjetted (jerked)
were treated with organochlorine for
termites - "the whole structure
was full of termites"

(48)

Sept 13 / 10 / 93

8.10am - lake on S side of
Leyner Rd just east of Ben's home.

- 1 PeBD with 4 Class III ducklings.
- Swan nest mound has 2
brood of ²⁺ GyTL ducklings sitting
on it. - plus 2 adults
- coots
- Ans Grebe
- Heronhead. - at least 2 prs.
- 5 LilPC roosting on fence posts
- Mand - Shov ♂
- Mooten - 1 seen
- GyTL
- PeBD

(49)

13/10/93 Covid

- Helicon Swallows or Martins high
over lake

- 1 pr GYL with 8 Class III chicks
- Cuckoo Egret

Brood of 8 Class II PBD chicks
(apparent) in ditch on N side
of road (opposite lake) - looks
64 ASA photos.

- 1 PBD with brood of 9 Class III
chicks

- 1 White Egret on top of Melaleuca of
lake. These Melaleuca (corkbark?)
are in flower.

Finish this lake 8.50 am.

(50)

13/10/93 contd

8.56 am - nest ^{Metabence} take to the

nest (on S side of Legner Rd)

- coot

- White (4)

- shore

- Willie Wagtail

- gull

- Maud

- Antelope

- Harp

- PABD

Finish 9.04 am

9.34 - Lobe opposite Vene A colony

- 1 band 6 eggs

- " 5 "

- " 4 eggs

(51) Broods 13/10/93
 Count of ~~Adults~~ in contd
 Ves A + Ves B Colonies

- 1 brood of 3 eggs
- 1 " " 1 "
- 1 " " 4 "
- 1 " " 4 "
- 1 " " 3+ on a mound

in area
 immediately
 to the
 west of the
 Ves A colony

- 1 brood of 4 eggs
- 1 " " 1 "

Leading West from
 Ves A colony

Ves A site [3 eggs
 1 "]
 Ves B site [4+ "]
 Ves A and B

Depth Gauge:
 0.51 m
 0949 hrs

- 1 brood of 1 eggs
- 1 " " 6 "
- 1 " " 4 "

to East of Ves A
 + Ves B colonies

13 broods + 39 eggs

(52)

Wed 13/10/93 contd
Count of Swans on Active Nests
in Vase A + B colonies

1000 am

- 18 swans sitting on active nests
in W part (mostly part) of
Vase A colony. Swans sitting
on active nests adjacent to Pgs 34,
35, 30, 31

- 10 swans sitting on active nests
in E (exposed) part of Vase A colony
~~34, 35, 30, 31~~ Swans sitting on active
nests adjacent to Pgs 22, 23, 40, 24, 25.
(1 sitting on mound on adjacent (S) shoreline)

- 13 swans sitting on active nests
in Vase B colony.

~~22, 23, 40, 24, 25~~

41

(53)

Wed 13/10/93

(Vase A colony)

Contd

Nest N° 25 plus much fresh
green filamentous algae pulled
up onto its sides.

— ^{heard} Motacilla frogs behind me

— Chironomid pupae for life in sample
they have grown larger since first noted
(100's) in abundance 2 weeks ago

— Many Shells but few other species
detected than Vase A colony.

— 10 APak resting on island
of Vase D colony.

— Scores of WF Chet from sample
area of Port George site. Some
little grasshoppers heard.

Finish of Port George area.

(54)

Wed 13/10/93 Contd

5.30 pm Verse floodgates
depth gauge reading ± 0.47 m AHD

5.40 pm flushed a ♀ shoveler
from a nest of 10 eggs
-16 m from road verge
(fence) in pasture
(mowed) generally $\leq$ knee
high. 82 m
from nearest water (Melby
Creeks). The bird flew straight
up when I was 3-5 m away.
The nest site is (measured)
0.7 km south of X roads.
I marked two roadside stakes with arrows

(55)

Wed 13/10/93 Contd.

Wormcamp B Colony

6.01 pm 26 broods counted in general area.

Some brood sizes were: 7, 5, 4, 1, 4, 3, 5+, 6, 6
5+, 4, 4, 5, 5 eggrets.

6.03 pm Count of Swans on Active Nests

12
30
31

Total = 33 sitting + 1 standing = 34 active nests.

and 1 on S shore line 100m
of metres further E.

6.14 pm

eggrets

2 broods (5, 5) in zone of
Mallards etc adjoining the above
area.

(56)

Wed 13/10/93 contd

Worming floodgate depth
gauge reading
+ 0.29 m AHD

6.38 pm ∇

Height of boards varies from
approx 10 cm below current
water level (one board) to
10 - 20 cm above current water
level.
 ∇ most boards

7.30 pm (at Hotel)

Note that all the eggs
seen on Vase - Worming &
Swan Lake over the past 2 days
 $\rightarrow$ with

(57)

Wed. 13/10/93 Contd.

have been downy, varying from white (smallest eggs) to grey (largest eggs). A very small proportion at each colony (mainly at Swan Lake) have short feather developing on face and in a few cases on neck. Therefore the range of ^{eggs} ages seen at Swan Lake, Ves A, Ves B and Won B ~~has~~ ^{has} been identical - on my inspection anyway.

(58)

13/10/93 contd

Summary of
Vase Entry Depth gauge (cm)
Readings - 4/8 - 13/10/93

<u>Date</u>	<u>Time</u>	<u>Reading</u>
4/8	— 1015 —	0.21 m
17/8	— 1436 —	0.12
18/8	— 1349 —	0.11
28/8	— 1250 —	0.18
18/9	— 1000 —	0.53
28/9	— 1534 —	0.51
13/10	— 0949 —	0.51

Check 1st notebook for earlier data.

Vase Reception name — SHARON!

(59)

Start 14/10/93

BP station says has lived at
"Ludlow House" for approx 16
years. Says mosquitoes
& (+ presumably midges) are
usually bad up until Xmas
then the problem drops off.
Its like this each year.

Photos of midges on car

9.36 am Wonsang floodgates
dyke gauge = + 0.30 m AHD

9.44 am CAW gauge at east end of
Wonsang estuary = 0.51 m
ESE breeze - 10 knots - blowing

(60)

14 / 10 / 93 Contd

Swan Lake Depth gauge

at 1100 hrs = 0.52 m

1120 am - ^AWent to colony

- 1 swan sitting on active nest

1 " standing ~ - -

2

on active nests

(both nests at outermost (deepest)
end of colony site)

many
Hundreds of ducks - mainly Sheld -
in the area - most all still
capable of flight.

1 pr adults with 6 eggs (large
grey downy) c150 m West of Wm. A

14/10/93 Contd.

John Forrest told me that two years ago he saw family parties of swans, with large, feathered (brown) eggrets (approx $2/3$ adult size) crossing the levee bank from Swan Lake to the Warrungup Estuary. Some also crossed the dunes from Swan Lake to the ocean.

Did not see this last year. Has never seen small (downy) eggrets cross the levee bank - and none have crossed this season.

(62)

Start Tues 26/10/93

Lake Clifton

9.30am

gauge = 4.20 m

all
baled round
at 1030 hrs
on 27/10/93

Forest Deed Rd - 11.00 am

pasture has been cut & is
being rebed on lowest lying
ground on E side of Rd
(part of wetlands). 6 Sals
rose from the dog sumpstone
nearby.

25 Sals in pasture to N of
tract in to Sora Lake colony

[14 RBD + 1 Scl in flooded

seepage on N side of tract in
and 2 Minkets.

(63)

East End

26/10/93 Contd.

Sweetlabbe

1114 hrs

Rever

Eggs

Whistly Kite - 6 at E end.
on fence post

17 Swans sitting on same nest

① " standing " " "

17 " most in outer (deeper)
area.

4 prs PABD resting on Swans nest mound

1 single " " " "

2 broods Shel " " " "

- 1 adult with ~~3~~⁴⁺ white eggs
resting on mound

- 1 swan with 3 downy eggs
Leady is flounder sign

Totals : 2 broods & 7 + eggs

(64)

26/10/93 cold

- 1 pair with 5 eggs feeding
in flooded sedge
- 1 pair with 3+ eggs resting
on nest mound.
- 1 pair with 3 white downy eggs
feeding in flooded sedge
- 5+ large white eggs resting
on nest mound with adult in
water nearby
- 1 adult with 4+ eggs resting
on nest mound
- 1 adult with 3+ ^{downy (small)} eggs in
flooded sedge
- ditto (larger)

Totals: 7 broods of 26+ eggs

(65)

26/10/93 contd

- 1 adult with ~~2~~³ eggs on nest mound

- " " " 2 " "

- 1 adult with 4 eggs feeding in flooded sedge

- 1 pre - 5 " " "

- 1 adult with 4+ eggs on nest mound

- 1 adult (feeding) with 4+ eggs feeding in flooded sedge (suckling)

- 1 adult with 3+ eggs feeding in flooded sedge

- 1 " " 7 " "

Totals: 8 broods & 32+ eggs

(66)

26/10/93 contd

- 1 pr with 3⁺ eggs feeding
in flooded sedge
✓ 18 broods - 68+ eggs ✓
found the end 1147 hrs

Start West End at 1155 hrs

- 1 adult feeding with 7 eggs
(large white) in flooded sedge
- 1 pr - - - 5 -
- - - - -
- 1 adult with 3+ eggs ready
on nest mound
- 1 pr with 4 eggs feeding
in flooded sedge

Totals: 4 broods & 19+ eggs (West End only)

(67)

5 broods of ²⁰ ~~10~~ + eggs 26/10/93 Contd

- 1 pr with 7 small downy
eggs freely in flowered cup

- 1 pr with 3+ eggs resting
on nest mound

- 1 pr with 2+ — — —

- 1 pr with 2 eggs freely
in flowered cup & 1 resting
on nest mound

- 1 pr with 5+ eggs resting
on nest mound

Depth gauge reading at 1206 hrs
= 0.51 m.

- 1 brood of 7 + ~~1~~ fledged ^{Shel} ~~still~~
picks on nest mound

(68)

26/10/93 Contd

1 pair seen &

- 1 brood 5 eggs (small downy)
feeding in flooded sedge
- 1 pr with ~~4~~ 6 eggs resting
on nest mound
- 1 seen with 4 + eggs resting
on nest mound
- 1 brood of ~~4~~ 7 eggs -
" " 1 adult nearby
- 1 adult with 3+ eggs
resting on nest mound
- 1 pr " 3+ "
- " " " "
- 1 pr with 1⁺ egg feeding
in flooded sedge

Totals: 7 broods & 29 + eggs

(69)

26/10/93 Contd.

1217 hrs 1 pr over Copulating in
the water!

- 1 seen with 3+ eggs freely in
flooded mychne
- 1 adult with 5+ eggs resting
on nest mound.
- 1 pr with 5+ (small downy) freely
in flooded mychne
- 1 pr with 5+ eggs resting
on nest mound
- — — — 4+ — — —
- — — — — — —
- — — — 3+ — — —
- — — — — — —

Totals: 6 broods & 25+ eggs

(70)

9 birds + 32+ eggs

26/10/93 Contd

- 1 adult with ~~7~~ ⁷ eggs fresh
in flooded sedge

- ~~1~~ 3

- 1 pair with 5 eggs fresh
in flooded sedge

- 1 ^{small} ~~pair~~ with 3 + eggs resting
on nest mound

- 1 - 2+

- 1 pair with 5+ ^{eggs} fresh in
flooded sedge

- 1 - 4+

- 1 - 1+

- 1 - 2+

1235 hrs

31 [✓] birds + ~~125~~ ¹²⁵ eggs [✓]

(71)

26/10/93

Swan Lake Cygnet / Brood Pools

✓
49 broods ✓ ~~193~~ ✓
cygnets

<u>East End:</u>	<u>Broods</u>	<u>Cygnets</u>
	2 ✓	7+ ✓
	7 ✓	26+ ✓
	8 ✓	32+ ✓
	1 ✓	3+ ✓
	18 ✓	68+ ✓

<u>West End</u>		
	4 ✓	19+ ✓
	5 ✓	20+ ✓
	7 ✓	29+ ✓
	6 ✓	25+ ✓
	9 ✓	32+ ✓
	31 ✓	125+ ✓

<u>Swan Lake Total</u>	49 ✓	193+ ✓

(72)

26/10/93 contd

Total Count of Swans

↳ Swan Lake

1241

~~1241~~ hr.

244 in lake

- 1247 hr.

Zero swans on active nests
in western section of Swan Lake

Other species

- Sheld - hundreds

- WFT - ≤ 10

- Crested Egret - a few

- CPC - 1+

- marshes / Swallows.

1252 hr.

(73)

26/10/93

Depth from Wellace

13-10-93 - 0.5'

17-10 - 0.5'2

22-10 - 0.50

25-10 - 0.5'2

1.30 pm - CALM gauge at east
end of Wonnup Estuary = 0.51 m
(± 1 cm)

1.38 pm

Wonnup gauge at Wonnup Estuary Floodgate
= + 0.28 m AHD - above the
top of 3 boards in the floodgate and below
the top of the remainder

74

26/10/93 contd

1.38 pm

1 bgtl with vigorous distribution
display and 1+ Class I
duckling on upstream side of
floodgates

4.40 pm - took 2 64ASA
photos of pile of yellow mud falling
small sediment wetland on
N side of Lymer Rd just
east of Bursellton. In

the photo is 1 po PeBD
with 9 Class I ducklings.
and another 1 PeBD with 8+
Class I ducklings

feeding on surface. Scaphiopus provides
good cover.

75

26/10/93
contd

4.53 pm another brood
of Class I (?) ^{P.B.D} ducklings
feeding in flooded pasture (?)
at edge of Vase Estuary
on Sth side of Legman Rd
(directly opposite wetland
of last page) just east
of Bsn.

5.15 pm in Lake with swim marks on Sth
Bsn (1 brood of 9 Class III P.B.D.)

Pl ... 7 ...
feeding by diving.

- also 1 brood of 4+ Class II P.B.D.
ducklings.

- 1 pr GyTL with 4 Class III ducklings
feeding on surface.

5.25 pm.

(76)

26/10/93 Cont.

5.32 pm Some also feeding

29 ~~Sooty~~ ^{Scrub} ~~tree~~ ^{to} working on

dead branches & trees of
leaves on S side of lagoon

Not some distance east

of Bsa tamarite

- Other species / birds also
present.

- strong NW wind with
some rain.

5.50 pm - Vase Estuary

florigates - WAWA dryll gauge

= + 0.42 m AHD

(77)

26/10/93
cont

6 pm

Womersley Estuary Floodgate WATRA gauge
= +0.27 m AHD

6.15 pm

CALM depth gauge at E end of
Womersley Estuary = 0.54 m ± 1 cm

↙

strong NW wind blowing - rain.

6.24 pm - good sample / mud flat
"com" of Womersley Estuary on south
side of gravel road just E
of turnoff from Layner Rd
- a stream of shallow water
in it - 6 P.30, 4 Shel and
2 Greenshells. This com

(78)

26/10/93
contd

Would no doubt get much more
use by waterbirds in spring if
water level in estuary was held
higher.

END OF BOOK

~~409 9968~~

3.5 kg. Thurs.

Knight + Son
14 Finsbury Ave