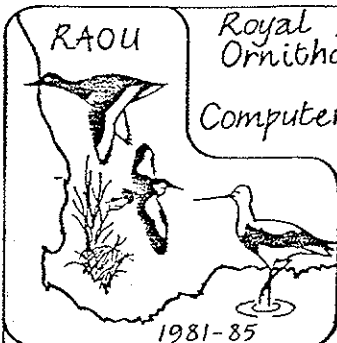




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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2941472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP / VASSE EST.
P.W.No. 229 Part No. (1) 3a (≡ sections fth)

Date of Survey 1.2.01 Start/Finish 1.9.82 Sheet of 1.7.3.0 1.8.3.0...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☐
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES		Total number of birds recorded (last digit ↓)	T or P. Total or Partial Count ↓ HOW	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 A Pel	1,0,6	...23T						
2 Mus D	2,1,7	...23P						
3 DART	1,0,1	...2P						
4 Gre E	0,9,6	...10P						
5 WFTM	1,8,8	...3P						
6 Au Gb	0,6,1	...121P						
7 CgtL	2,1,1	...124P						
8 Pic C	0,9,9	...7P						
9 Coot	0,5,9	...64P						
10 Blue	2,0,7	...152P						
11 Pa BD	2,0,8	...120P						
12 Blw St	1,4,6	...6P						
13 Sac I	1,7,9	...1P						
14 Cgt E	1,8,7	...3P						
15								
16								
17								
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

C/V

1

1

1

1

1

1

2

1

1

1

1

1

1

1

1

1

1

1

2

2

2

2

2

2

2

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1

Sheet Ref.

21

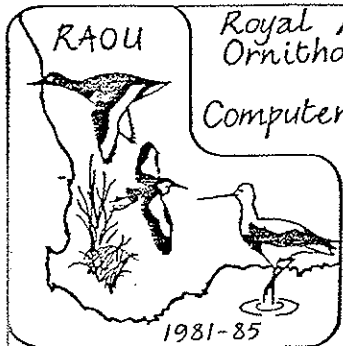
Observer

21

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2941472
Address 72 VIVEASH ROAD SWANVIEW

Wetland Nature Reserve name WONNERUP / VASSE EST.
P.W.No. 229 Part No. (i) 36 (≡ section g.)

Date of Survey 1.20.11.9.8.2 Start/Finish 1.6.3.0 1.7.3.0 Sheet of
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

SPECIES
English Name
abbrevtn.
(4 letters)

RAOU Atlas
No.

Total
number
of birds
recorded
(last digit ↓)

T or P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

2
Sheet Ref.

21

Observer

211

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

1 Sheel 20.7

...6.8 P

2 Swan 20.3

...1.3 P

3 Pic C 09.9

...3.3 P

4 Gre E 18.7

...7 P

5 Sac I 17.9

...2 P

6 Snd I 18.0

... P

7 W F Hn 18.8

...2.2 P

8 Bw sr 14.6

...1.9 P

9 Hard 21.5

...20.0 P

10 Bbi D 21.6

...2 P

11 Pa BD 20.8

...8.0 P

12 Shov 21.2

...2 P

13 An Gb 06.1

...1.0.0 P

14 Gre C 09.6

...5.0 P

15 Gs TE 21.1

...8.0 P

16 A Pel 10.6

...2.0 T

17 DART 10.1

...1 P

18 Lit E 18.5

...1 P

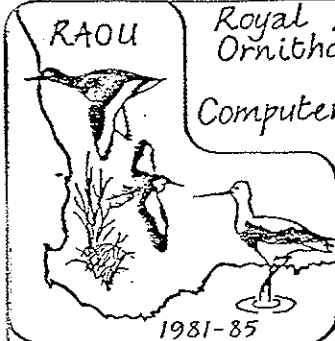
19 Li W 8.3.5

...3 P

20

...

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 294 1472

Address 72 VINEASH RD SWANVIEW

postcode 6056

Wetland Nature Reserve name VASSE ESTUARY

P.W.No. 229 Part No. 1 (= Section b)

Date of Survey Start/Finish Sheet of

1.3.0.1 1.9.8.2 0.8.0.0 0.9.1.5...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity.
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

SOME DIFFICULTY WITH COUNT OF LARGER RAFTS OF BIRDS WHEN OBSERVATION ONLY POSSIBLE IN ONE DIMENSION I.E. FROM ONE ANGLE ONLY. MOST BIRDS IN OR AROUND RESERVE AREA BUT UICK RAFT EXTENDED WESTWARDS (+ SWAN) MAJORITY OF ALL BIRDS FEEDING (ABUNDANT ANIMAL + AQUATIC FOOD ON FRESHLY EXPOSED MUD FLATS.

(wrong map printed on back of transcribed sheet, so this copy has been used to replace it - destroyed) Rg.

SPECIES	
English Name abbrevia (4 letters)	RAOU Atlas No.

1 A Pel 1,0,6

2 Swan 2,0,3

3 Bwst 1,4,6

4 Pa BD 2,0,8

5 Shee 2,0,7

6 Se Gc 1,2,5

7 Gg K 2,1,1

8 Wink 8,3,5

9 Uick 8,3,8

10

11

12

13

14

15

16

17

18

19

20

Total number of birds recorded (last digit)	T or P: Total or Partial Count
---	---

... 2 P

... 20,0 P

... 27,5,0 P

... 20,0 P

... 22,0 P

... 1,0,0,0 P

... 5,0,0 P

... 1,0,0,0 p

... 2,0,0,0 P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

3

Sheet Ref.

2.1

Observer

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

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of
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vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 294 1472

Address 72 VINEASH RD SWANVIEW

postcode 6056

Wetland Nature
Reserve name VASSE ESTUARY

P.W.No. 229 Part No. 1

Date of Survey 26.01.98 Start/Finish 1.6.30 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

ALL BIRDS IDENTIFIED WITHIN AREA INDICATED ON MAP WITH EXCEPTION OF AREA WHICH WERE MOST OBVIOUS WITH ESTIMATED 7,000 BIRDS COMPRISING STILT, DUCK, GULLS, WADERS OVER 1 KM. EACH SIDE OF RESERVE AREA.

SURVEY FOLLOWS HEAVY RAIN (20-22 JAN) IN SOUTH BUT THIS AREA DID NOT RECEIVE

> 30 mm

Li W INCLUDED TWO SPECIES

SPECIES

English Name
abbrevn
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit)

Tor P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 BWSV 1,4,6

, 2,0,0 P

2 Si Gt 1,2,5

, 1,5,0 P

3 Shel 2,0,7

, 1,2,0 P

4 A Per 1,0,6

, 1,1,6 P

5 Li Wt 8,3,5

, 1,4,2,0 P

6 Sy R 2,1,1

, 1,2,0 P

7 W F H 1,8,8

, 1,4,4 P

8 Swan 2,0,3

, 1,5,2,0 P

9 Sea I 1,7,9

, 1,1,1 P

10 Sbk I 1,8,0

, 1,1,6 P

11 Reap 1,4,3

, 1,1,6,6 P

12 Spt E 1,8,7

, 1,1,2 P

13 Snow 2,1,2

, 1,1,0 P

14

, , , , ,

15

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16

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19

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20

, , , , ,

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1. approximate
positions of
any active
nests found
(SN,e,yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

2,2,9

P.W.No.

1

Part

4

Sheet Ref.

2,1

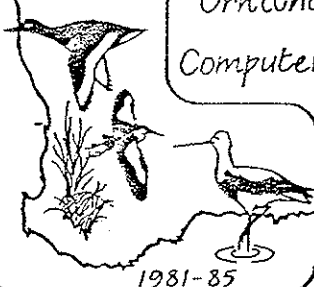
Observer

Comb/Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU



1981-85

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WATERBIRD USAGE

of

Wetland Nature Reserves

vested in the

Western Australian Wildlife Authority & situated in the

South-West & Eucla Divisions.

Observer

B. K. KNEEBONE

phone

2941472

Address

72 VINEASH RD

SWANVIEW

Wetland Nature Reserve name

WONNERUP / VASSE EST.

P.W.No.

229

Part No(1)

35

(= section g)

Date of Survey

27/01/1982

Start/Finish

0.5.3.0 0.9.1.5

Sheet of

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)?

W

2. Put an "A" if you are confident that you found all species present (otherwise put N).

N

3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity.

4. Used a telescope (T)? If not, put an X.

X

5. Used a boat (B)? If not, put an X.

X

Comments:

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Grt E	1,8,7	...4P						
2 Snee	2,0,7	...1,20P						
3 WFM	1,8,8	...6P						
4 Gtate	2,1,1	...1,0,0P						
5 Swan	2,0,3	...3,0P						
6 BWSr	1,4,6	...2,0P						
7 Hard	2,1,5	...2P						
8 Apr	1,0,6	...1P						
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey.

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

5

Sheet Ref.

2,1

Observer

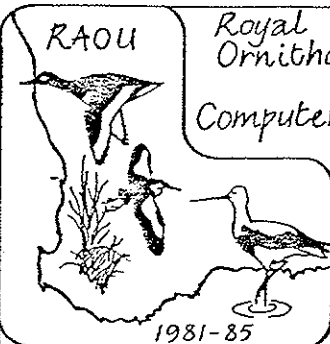
21

Comb./Spare

RETURN to

69 Lanark St., Coolbinia, WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEESONE phone 2941472
Address 72 VIVEASH RD SWANVIEW
postcode 6056

Wetland Nature Reserve name WONNERUP / VASSE EST. ^{Pth}
P.W.No. 229 Part No. (1) 3a (sheet 1) (= sections)

Date of Survey Start/Finish Sheet 1 of 2
27.0.1 1.9.82 0.7.30 0.8.3.0 ...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☐
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SEE RAINFALL COMMENT AS FOR AREA 1
WATER LEVEL RECEDING (SLOWLY)
WATER SAMPLE TAKEN SOUTHERN END OF
WONNERUP INLET (LAGOON) READING: 7750 ppm
Nace

SPECIES	
English Name abbrev. (4 letters)	RAOU Atlas No.

1 Swan	20,3
2 Ape	1,0,6
3 GtE	2,1,1
4 Mus	2,1,7
5 Shee	20,7
6 GtE	1,8,7
7 Shee	1,7,9
8 Augb	0,6,1
9 Libc	0,9,7
10 Hkgb	0,6,2
11 BWSr	1,4,6
12 Bbid	2,1,6
13 LitE	1,8,5
14 Pa BD	2,0,8
15 WFTm	1,8,8
16 Picc	0,9,9
17 Coot	0,5,9
18 Pccs	9,7,8
19 GtE	0,9,6
20 Smk I	1,8,0

Total number of birds recorded (last digit ψ)

T or P: Total or Partial Count ψ HOV

BREEDING: Tick $\checkmark$ if these categories were observed...

dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229
P.W.No.

1
Part

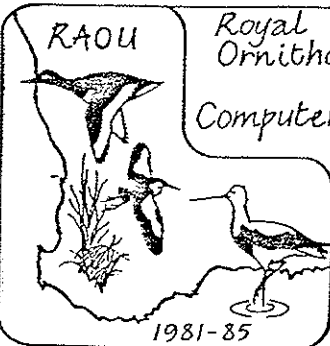
6
Sheet Ref.

2,1
Observer

31
Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVBASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP / VASSE postcode 6056

P.W.No. 229 Part No. (1) 3a (= f+h)

Date of Survey Start/Finish Sheet of

0.3.0.3.1.9.8.2 1.7.3.0.1.8.1.5...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☐
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

REFER MAP FOR EXTENT OF WATER

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 SgTe	2.1.1	50.5P						
2 Wfth	1.8.8	1P						
3 Sigs	1.2.5	1.20P						
4 PaBD	2.0.8	3.3.4P						
5 Bwst	1.4.6	50.4P						
6 APel	1.0.6	6T						
7 Shee	2.0.7	2.4P						
8 SacI	1.7.9	2P						
9 Swan	2.0.3	2T						
10 Darc	1.0.1	2P						
11 SacC	0.9.6	4P						
12 LPic	1.0.0	1P						
13 MusD	2.1.7	2P						
14 Pic	0.9.9	3.0P						
15 Liwr	8.3.5	1P						
16 Gank	1.5.8	3P						
17								
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

C/V
1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

2.2.9

P.W.No.

1

Part

8

Sheet Ref.

2.1

Observer

21

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

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Ornithologists Union
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Computer Form for use in the Survey of

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Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP / VASSE

P.W.No: 229 Part No: (1) 36 (=g)

Date of Survey 03.03.1982 Start/Finish 1.6.3.0 / 1.7.3.0 Sheet of

03.03.1982 1.6.3.0 / 1.7.3.0 ..eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? -W

2. Put an "A" if you are confident that you found all species present (otherwise put "N"). -N

3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. -

4. Used a telescope (T)? If not, put an X. -X

5. Used a boat (B)? If not, put an X. -X

Comments:

REFER MAP FOR EXTENT OF WATER.

BIRDS CONFINED TO AVAILABLE WATER

SPECIES	
English Name abbrevia. (4 letters)	RAOU Atlas No.

1 Swan 20.3

2 Sheel 20.7

3 Pa Bd 20.8

4 Syle 21.1

5 Bwst 14.6

6 Wfthw 1.8.8

7 Srt E 1.8.7

8 Snt I 1.8.0

9 Sre 0.9.6

10 Yb Se 1.8.2

11 Sac I 1.7.9

12 Anco 0.6.1

13 A Pel 1.0.6

14

15

16

17

18

19

20

Total number of birds recorded (last digit)	T or P: Total or Partial Count
---	--------------------------------

2P

1.0.7P

8.6P

8.8P

1.8P

5.3P

2.0P

4.0P

3P

4P

2P

5.0P

2P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No

1

Part

9

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
 copied from FA
 Computer Form for use in the Survey of
WATERBIRD USAGE
 of
 Wetland Nature Reserves
 vested in the
 Western Australian Wildlife
 Authority & situated in the
 South-West & Eucla Divisions.

1981-85

Observer M. H. BREMNER phone 387 1539
 Address 238 SALVADO RD WEMBLEY

Wetland Nature Reserve name VASSE ESTUARY
 P.W. No. 1 Part No. (assume $\equiv$ to b + e)

Date of Survey 09/04/1982 Start/Finish 10.00/12.30 Sheet of 1
 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

TRACED THE ESTUARY ON EASTERN SIDE FOR APPROX 2 KMS. SOUTH OF THE DAM. THIS BEING SUBDIVIDED INTO FARM LOTS + THE FENCES GO DOWN TO WATER'S EDGE. WE HAD DIFFICULTY ROLLING UNDER THESE FENCES
 ONE SWAN IMMATURE

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...					C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn		
1 Pa BD	20.8	30								1. approximate positions of any active nests found (SN, e, yn).
2 Mus D	21.7	5								2. the route of your survey,
3 Gbi D	21.6	2								3. any other relevant information.
4 Gt Te	21.1	7								
5 Cool	0.5.9	10								
6 Swan	20.3	2		✓						
7 L Pic	1.0.0	8								
8 Libe	0.9.7	6								
9 Jnt	1.0.1	3								
10 Spr E	1.8.7	3								
11 Sac I	1.7.9	3								
12 Sak I	1.8.0	2								
13 Pu Sw	0.5.8	1								
14 Lf ltn	1.8.8	5								
15 Com S	1.5.7	2								
16 Gank	1.5.8	2								
17 Bw Sy	1.4.6	13								
18 Sm P	1.3.6	1								
19										
20										

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

OFFICE USE

22.9

P.W. No.

1

Part

1.0

Sheet Ref.

4

Observer

1

Comb / Spare

RETURN to
 69 Lanark
 St, Coolbinia,
 WA, 6050.

RAOU Royal Australasian Ornithologists Union
 Copied from TA
 Computer Form for use in the Survey of
 FINAL
 WATERBIRD USAGE
 of
 Wetland Nature Reserves
 vested in the
 Western Australian Wildlife
 Authority & situated in the
 South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472
 Address 72 VINEASH ROAD SWANVIEW
 Wetland Nature Reserve name WONNERUP / VASSE postcode 6056
 P.W.No. 229 Part No. 36(1) (= 9)
 Date of Survey Start/Finish Sheet of
28.04.1982 1.6.30 1.7.30 ...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity.
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X.

Comments:

REFER MAP FOR WATER AREA REMAINING -
 MUCH RECESSED - CONFINED TO ONE AREA
 ONLY ON MALBUP CREEK. LONG WALK
 NECESSARY. WATER DEPTH ~ 10cm. ALL
 BIRDS OBSERVED AT/NEAR THE SMALL AREA
 OF WATER

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 WtHn	1.8.8	...	8 T					
2 BwSt	1.4.6	...	4 T					
3 PuBD	2.0.8	...	1 T					
4 Bfop	1.4.4	...	3 T					
5 Gank	1.5.8	...	4 T					
6 SntI	1.8.0	...	8 T					
7		...						
8		...						
9		...						
10		...						
11		...						
12		...						
13		...						
14		...						
15		...						
16		...						
17		...						
18		...						
19		...						
20		...						

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1.1

Sheet Ref.

2.1

Observer

21

Comb./Spare

RETURN to
 69 Lanark
 St, Coolbinia,
 WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

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Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone _____

Address _____

Wetland Nature Reserve name WONNERUP / VASSE postcode _____

P.W.No. 229 Part No. 3(1) (W. INLET) (=f+h+i)

Date of Survey 28.04.1982 Start/Finish 1.7.3.0 1.8.00 Sheet of ... eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ...
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. ...

Comments:

MAJORITY OF BIRDS AT SOUTHERN END OF INLET. REFER MAP FOR EXTENT OF WATER LINE. RWAV ALL IN ONE GROUP ON EXPOSED MUD BANK. FIRST SIGHTING THIS YEAR.

SPECIES

English Name abbrevn. (4 letters) RAOU Atlas No.

1	RWAV	1,4,8
2	Shal	2,0,7
3	Swan	2,0,3
4	APel	1,0,6
5	CyTe	2,1,1
6	PaBD	2,0,8
7	SiGr	1,2,5
8	BwGr	1,4,6
9	SyE	1,8,7
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Total number of birds recorded (last digit)

T or P: Total or Partial Count

BREEDING: Tick ✓ if these categories were observed...

Use the Wetland Map on the back of this form to mark...

C/V

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

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1/1

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1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

22.9

P.W.No.

1

Part

12

Sheet Ref.

21

Observer

211

Comb./Spare

RETURN to 69 Lanark St., Coolbinia, WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU -

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Ornithologists Union

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Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP / VASSE postcode 6056

P.W. No. 229 Part No. 1 (VASSE) (≡ bte)

Date of Survey 29.04.1982 Start/Finish 0800-0840 Sheet of

29.04.1982 0800-0840 ..eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

WATER MUCH RECEDED - REFER MAP FOR
EXTENT OF WATER LINE. RESERVE 31185 DRY
AS REMAINDER TO SOUTH. APPROACH FOR ACCESS
THRU CRAIG'S FARM ROAD (TRACK) OFF BUSSELL
HIGHWAY AT WHITE TYRES ~ 1 km. NORTH OF
SABINA R. LIMITED TIME, UNABLE TO APPROACH
TO LESS THAN 200 m TO IDENTIFY SMALL
WADERS, IN TWO GROUPS. ALL BIRDS
OBSERVED AT NORTHERN END AFTER WATER

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1 APel 1,0,6

2 Swan 2,0,3

3 PAED 2,0,8

4 Bel 2,0,7

5 BwSr 1,4,6

6 WtAn 1,8,8

7 SyTL 2,1,1

8 PuC 0,9,9

9 SyC 0,9,6

10 UuW.C 8,3,5

11 UuW.C 8,3,5

12

13

14

15

16

17

18

19

20

Total
number
of birds
recorded
(last digit ↓)

T or P:
Total
or Partial
Count
↓ HOW

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

13

Sheet Ref.

21

Observer

Comb./Spare

RETURN to

69 Lanark

St, Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

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Ornithologists Union

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer BERNIE & CAROLINA MASTERS phone 3848805 / AM

Address 17 MIMOSA AVENUE GRAYLANDS

Wetland Nature Reserve name VASSE ESTUARY

P.W.No. 229 Part No. b & c

Date of Survey 2.2.0.5 1.9.8.2 Start/Finish 1.1.1.5 1.2.4.5 Sheet of ...

...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

OPEN WATER ONLY IN 2 PLACES - IN SW CORNER OF RESERVE, COVERING AN AREA OF 40m x 20m AND IN THE SABINA RIVER WHICH CONTAINED WATER OVER ITS ENTIRE LENGTH IN A POOL WHICH SEEMED PERMANENT.

SPECIES

English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or
Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Shee 207

2 Wshu 188

3 Arel 106

4 Pu Su 058

5 Pa BD 208

6 Wigh 820

7

8

9

10

11

12

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14

15

16

17

18

19

20

...6 T

...3 T

...13 T

...1 P

...22 P

...2 P

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1/1

1/2

1/3

1/4

1/5

1/6

1/7

1/8

1/9

1/10

1/11

1/12

1/13

1/14

1/15

1/16

1/17

1/18

1/19

1/20

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

14

Sheet Ref.

27

Observer

Comb/Spare

RETURN to

69 Lanark

St, Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

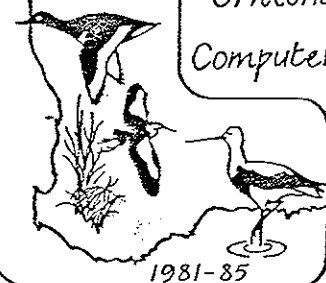
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Ornithologists Union

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Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B. C. MASTERS phone (097) 272002Address 2/- RO. CAPELWetland Nature Reserve name VASSE ESTUARY (SABINA RIVER)P.W.No. 229 Part No. 1Date of Survey 1.9.0.7 1982 Start/Finish 1.3.3.0 Sheet 1 of 11.9.0.7 1982 1.3.3.0 ...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ M
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

FRESH NORTHERLY BREEZE, WETLAND FULL OF WATER, ARUM LILIES COMMON TO ABUNDANT IN MANY AREAS. KIKUYU DENSE ON WEST BANK OF RIVER.

INCLUDED IN TOTAL SPEC NUMBERS ARE 21 PARBD AND 2 GYTI SEEN ON SABINA RIVER APPROX. TO GYTI SEEN FLYING OVERHEAD APPROX. 150 SWAN ON VASSE ESTUARY.

SPECIES

English Name
abbrevn
(4 letters)RAOU Atlas
No.Total number
of birds
recorded
(last digit)T or P:
Total
or Partial
Count
↓ HOYBREEDING:
Tick ✓ if these
categories were
observed...

dd DR. SN e yn

1 PARBD 20.3

... 25 T

2 SWAN 20.3

... 10 T

3 PieC 09.9

... 5 T

4 WPHn 1.3.5

... 11 T

5 GYTI 2.1.1

... 77 T

6 Shel 2.0.7

... 3 T

7 MusD 2.1.7

... 2 T

8 UIGb 8.2.0

... 7 T

9

10

11

12

13

14

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19

20

Use the
Wetland Map on
the back of
this form
to mark...

C/V

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐1. approximate
positions of
any active
nests found
(SN, e, yn).2. the route
of your
survey;3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

15

Sheet Ref.

27

Observer

☐

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2921472

Address 72 VIVEASH RD SWANVILLE

Wetland Nature Reserve name W/ONNERUP / VASSE ESTUARY

P.W.No. 229 Part No. I Section 'f'

Date of Survey 21/07/1982 Start/Finish 1.73.0/1.80.0 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES

English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

Tor P:
Total
or Partial
Count
↓ HO

BREEDING:
Tick ✓ if these
categories were
observed...
dd DR SN e yn

1 LC 100

2 WFFH 188

3 Gre C 096

4 Pa BD 208

5 Gg TL 211

6 Mus D 217

7 Swan 203

8 Shel 207

9

10

11

12

13

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17

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19

20

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

16

Sheet Ref.

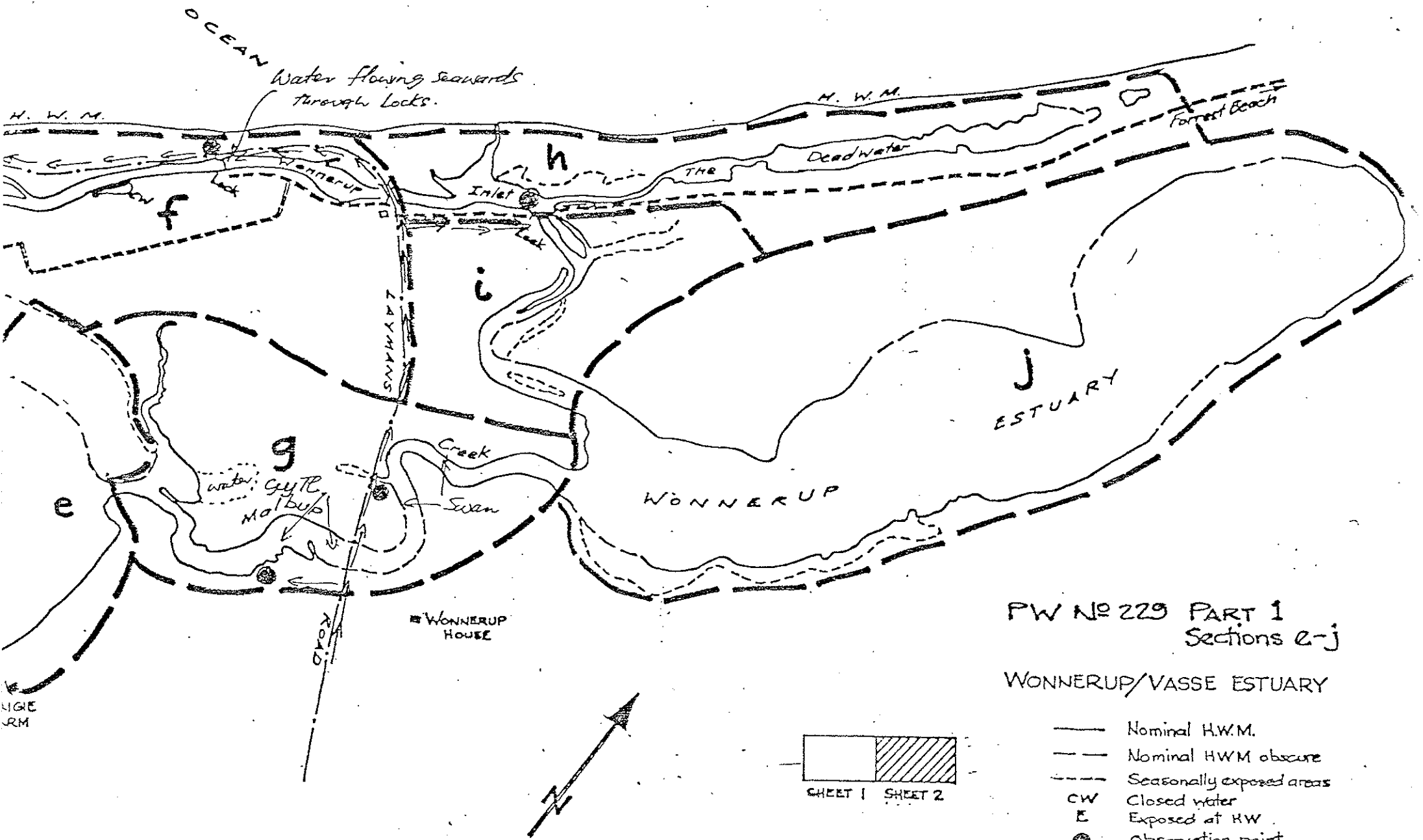
21

Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.



PW No 229 PART 1
Sections e-j

WONNERUP/VASSE ESTUARY



SURVEY DATE
21/7/82

SCALE 1:20,000

- Nominal H.W.M.
- - - Nominal H.W.M. obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at H.W.
- Observation point
- Survey route
- Extent of water observed (if not H.W.)

All water at Nom. H.W.M.
& higher in some areas.

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vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY postcode 6056
P.W.No. 229 Part No. I Section 'g'

Date of Survey 21.07.1982 Start/Finish 1.6.3.0/1.7.1.0 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Applies to Sections g, f, h, b.
Water levels very high and coverage into normally dry paddocks extensive. Birds dispersed, mainly in pairs but some small groups.
No evidence of breeding found from limited nest search & no young observed.
Limited time (too short) for observation in all Sections.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn
1 Gy RL	21.1	... 40	P				
2 L Pi C	1.90	... 7	P				
3 Pa B D	20.8	... 12	P				
4 Man D	20.2	... 2	P				
5 Swan	20.3	... 10	P				
6 Shel	20.7	... 7	P				
7 W F H N	1.8.8	... 1	P				
8							
9							
10							
11							
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13							
14							
15							
16							
17							
18							
19							
20							

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

22.9

P.W.No.

1

Part

1.7
Sheet Ref.

2.1

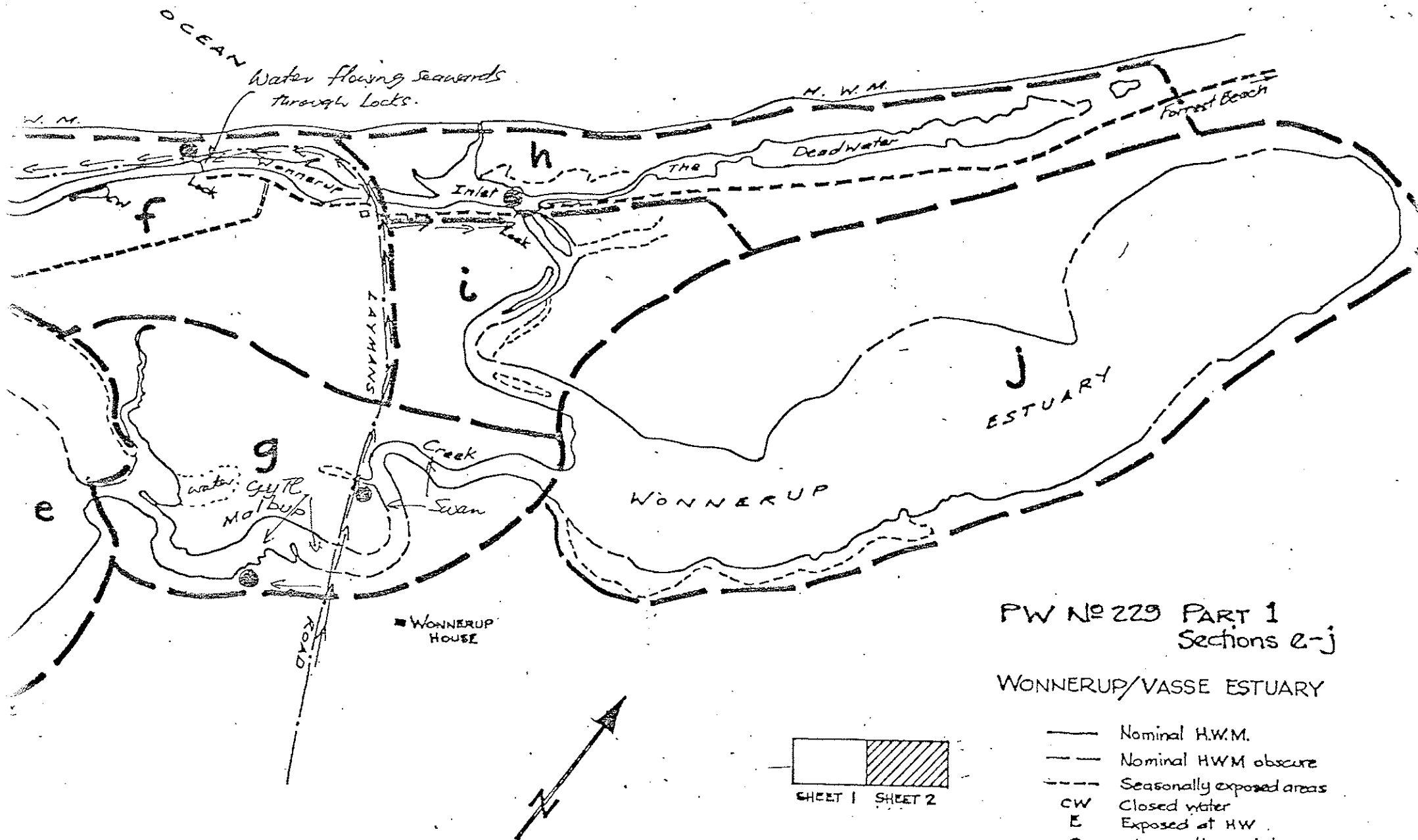
Observer

21

Comb/Spare

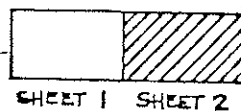
RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



PW No 229 PART 1
Sections e-j

WONNERUP/VASSE ESTUARY



SURVEY DATE

21/7/82

- Nominal H.W.M.
- - - Nominal HWM obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at HW
- Observation point
- Survey route

Extent of water observed
(if not H.W.)

All water at Nom. H.W.M.
& higher in some areas.

SCALE 1:20 000

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Ornithologists Union

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of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 Vineash Rd Swanview

postcode 6056

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY

P.W.No. 229 Part No. I Section 'h'

Date of Survey Start/Finish Sheet 1 of 1

21.07.1982 1.7.10.1.7.30 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES

English
Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Gre C 0.9.6

. . . . A P

2 Pie C 0.9.9

. . . . 1 P

3 Shel 2.0.7

. . . . 2 P

4 L.P.C 1.0.0

. . . . 3 P

5 Gy R 2.1.1

. . . . A P

6 Grt E 1.8.7

. . . . 1 P

7

. . . .

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. . . .

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. . . .

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. . . .

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. . . .

19

. . . .

20

. . . .

Use the
Wetland Map on
the back of
this form
to mark...

C/V

☐ ☐
☐ ☐
☐ ☐
☐ ☐
☐ ☐
☐ ☐
☐ ☐
☐ ☐
☐ ☐
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☐ ☐

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

1.8

Sheet Ref.

2.1

Observer

21

Comb/Spare

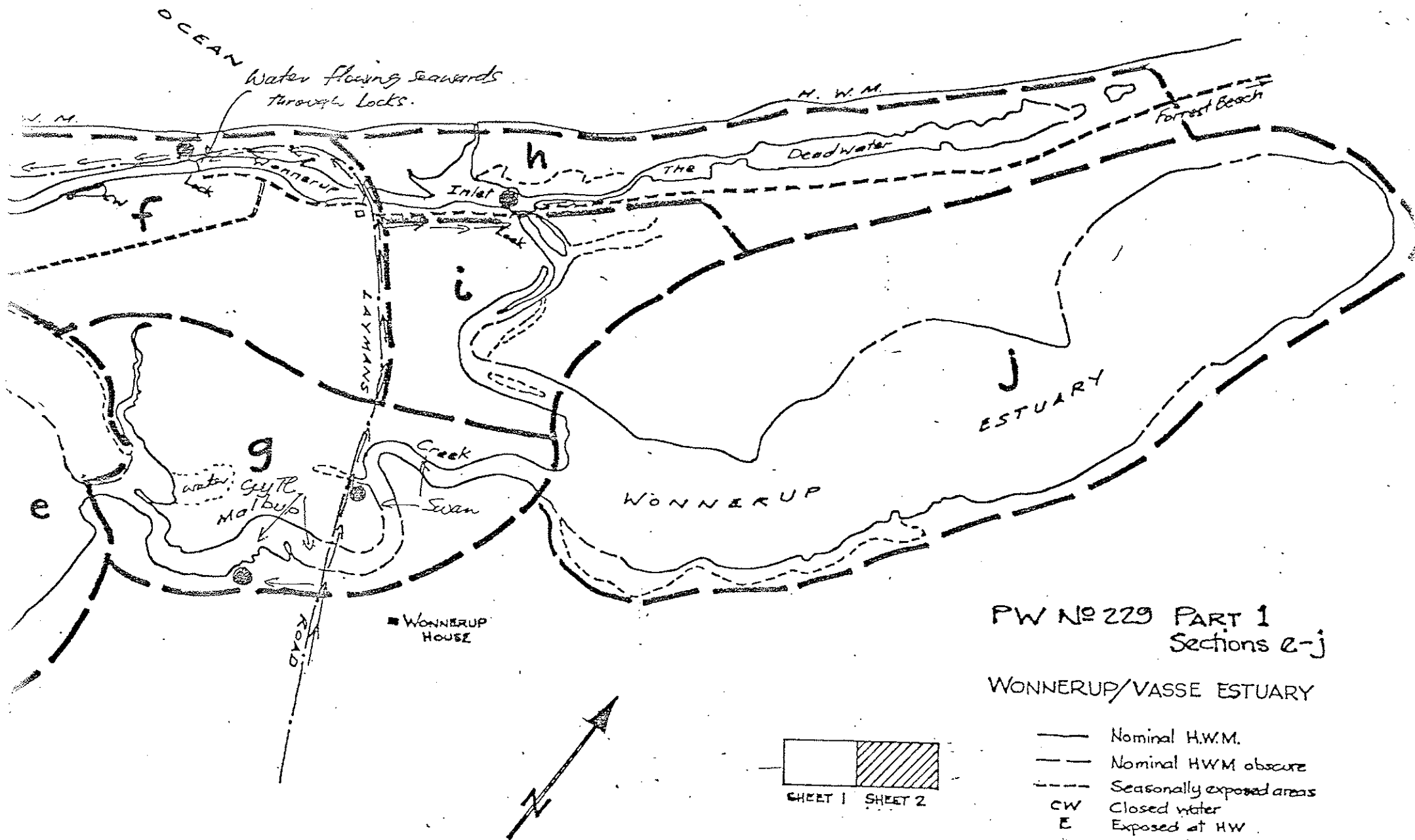
RETURN to

69 Lanark

St., Coolbinia,

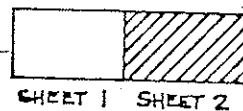
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



PW No 229 PART 1
Sections e-j

WONNERUP/VASSE ESTUARY



SURVEY DATE

21/7/82

- Nominal H.W.M.
- - - Nominal H.W.M. obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at HW
- Observation point
- Survey route
- Extent of water observed (if not H.W.)

All water at Nom. H.W.M.
& higher in some areas.

SCALE 1:20000

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2341472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY.

P.W.No. 229 Part No. I Section 'B'

Date of Survey 22/07/1982 Start/Finish 08.00/08.45 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES

English
Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

Tor P.
Total
or Partial
Count
Count

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Shov 2,1,2

2 Swan 2,0,3

3 PaBD 2,0,8

4 WfHu 1,8,8

5 LPiC 1,0,0

6 GntE 1,8,7

7 CryTB 2,1,1

8

9

10

11

12

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19

20

1,3 P

50 P

1,0 P

2 P

4 P

1 P

6 P

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate positions of any active nests found (SN,e,yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

19

Sheet Ref.

21

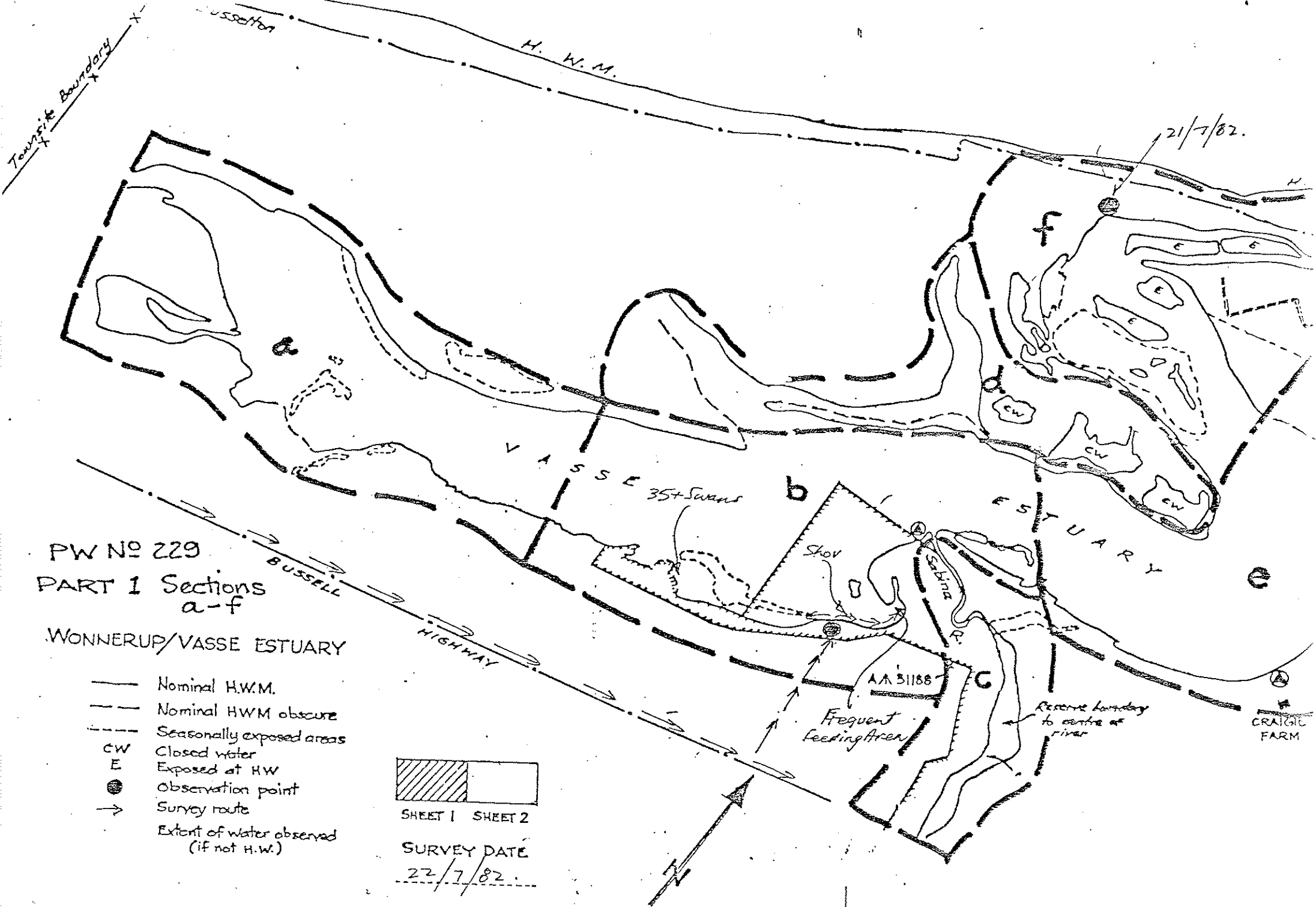
Observer

21

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



PW NO 229
PART 1 Sections a-f

WONNERUP/VASSE ESTUARY

- Nominal H.W.M.
- - - Nominal H.W.M. obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at HW
- Observation point
- Survey route
- Extent of water observed (if not H.W.)



SHEET 1 SHEET 2

SURVEY DATE

22/7/82.

SCALE 1:20 000

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Authority & situated in the
South-West & Eucla Divisions.Observer B. K. KNEEBONE phone 294 1472Address 72 VIVEASH RD SEANVIEWWetland Nature Reserve name WONNERUP/VASSE ESTUARYP.W.No. 229 Part No. 1(C)Date of Survey 18.08.1982 Start/Finish 1.6.50/1.7.20 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

Water level receding.

Gy TL still grouped. Shov in pairs
Shel in groups but some pairs.

Sac I feeding as group

Suk I in two groups flying over.

SPECIESEnglish
Name
abbrevtn.
(4 letters)RAOU
Atlas
No.Total
number
of birds
recorded
(last digit ↓)Tor P:
Total
or Partial
Count
↓ HOVBREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 203

... 2 T

2 Shel 207

... 26 P

3 Gy TL 211

... 39 P

4 Sac I 179

... 12 T

5 Suk I 180

... 60 T

6 WFHu 188

... 1 P

7 Shov 212

... 6 P

8 Pa Bd 208

... 4 P

9 Mus D 217

... 3 P

10

11

12

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).2. the route
of your
survey,3. any other
relevant
information.OFFICE USE

229

P.W.No.

1

Part

20

Sheet Ref

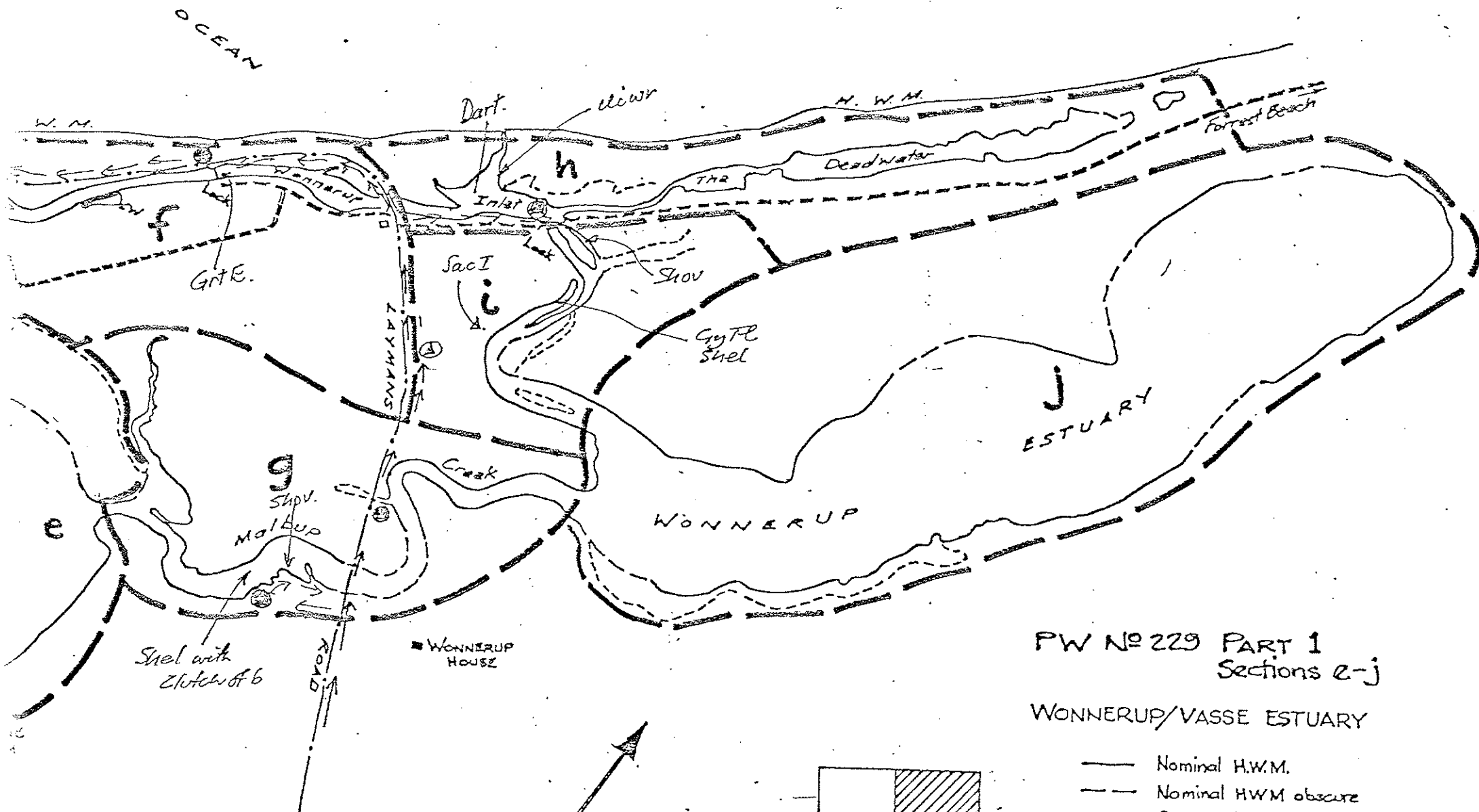
21

Observer

211

Comb/Spare

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



PW No 229 PART 1
Sections e-j

WONNERUP/VASSE ESTUARY



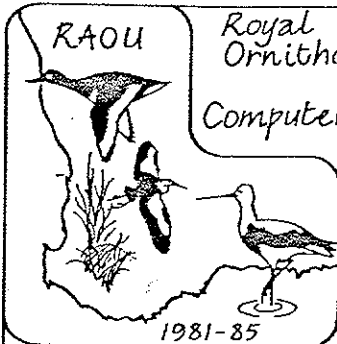
SURVEY DATE
18/8/1982

- Nominal H.W.M.
- - - Nominal H.W.M. obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at H.W.
- Observation point
- Survey route
- * Extent of water observed (if not H.W.) (See Note)

WATER LEVELS - ALL SECTIONS

Generally receded ~10m
in the horizontal but not
scale too small to show
differentiation to nominal H.W.M.

SCALE 1:20,000



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WATERBIRD USAGE

of
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vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONIVERUP/VASSE ESTUARY postcode 6056

P.W. No. 229 Part No. 1(f)

Date of Survey 1.8.82 Start/Finish 1.7.3.5 Sheet 1 of 1

1.8.82 1.7.3.5 1800...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W

2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N

3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L

4. Used a telescope (T)? If not, put an X. X

5. Used a boat (B)? If not, put an X. X

Comments:

Pa Bd - 1 with clutch of 3 at v/wkage.

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1 Grt E 18.7

2 Mus D 21.7

3 Pie C 09.9

4 Shov 21.2

5 A Pel 1.0.6

6 Swan 2.0.3

7 Pa Bd 2.0.8

8

9

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19

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Total number of birds recorded (last digit)	T or P: Total or Partial Count
---	--------------------------------

1 P

3 P

1 P

5 P

2 P

2 P

5 P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

✓

Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey.

3. any other relevant information

OFFICE USE

22.9

P.W. No.

1

Part

2.1

Sheet Ref.

2.1

Observer

2.1

Comb./Spare

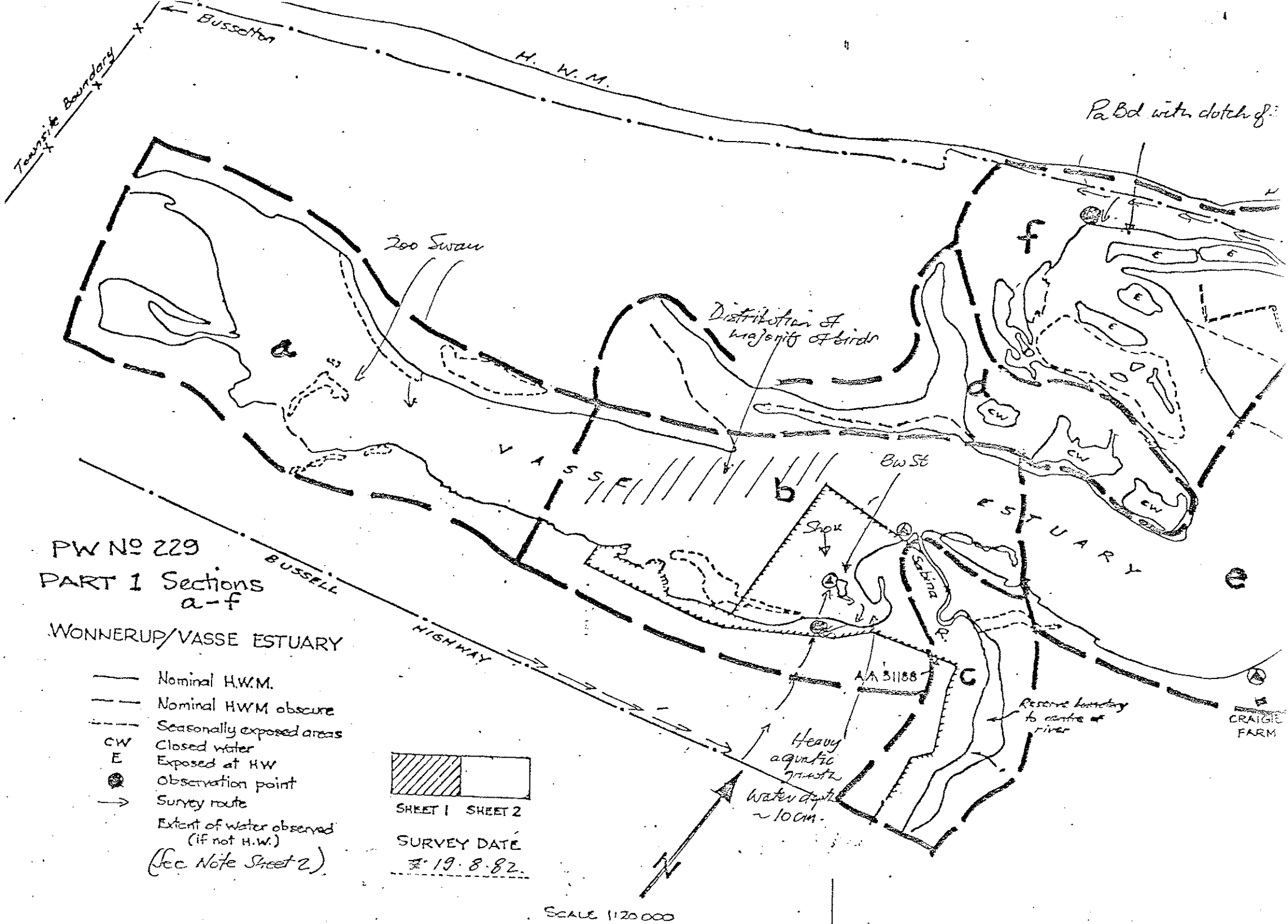
RETURN to

69 Lanark

St, Coolbinie

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2941472

Address 72 VINEASH RD SWANVIEW

postcode 6056

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY

P.W.No. 229 Part No. 19

Date of Survey 18.08.1982 Start/Finish 1.6.20 1.6.50 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

Water levels receding - waterline down ~10m (horiz.)

Most birds paired off - some pairs in groups e. Shov.

Breeding: 1x Shov clutch of 6 young ~1wk age on water.

Widk - too far distant & obscure but possibly GyTL & / or PaBd.

SPECIES

English Name abbrevn. (4 letters)

RAOU Atlas No.

Total number of birds recorded (last digit ↓)

Tor P: Total or Partial Count ↓ HOV

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

1 Shov 2.1.2

2 Shov 2.0.7

3 Swan 2.0.3

4 GyTL 2.1.1

5 SacI 1.7.9

6 PaBd 2.0.8

7 Widk 3.3.8

8

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6 P A

2.3 P A

3 P A

1.0 P A

1 P A

1.1 P A

2.0 P A

✓

Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

22

Sheet Ref.

21

Observer

21

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY
P.W.No. 229 Part No. 1(h)

Date of Survey 18.08.1982 Start/Finish 1.7.20 1.7.35 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

uicwr too far for +ve ident.
Greensheep ?
(body & legs)
Larger size wader'n, longish bill (than
most sandpipers) dark on top and wings
right underparts. Bill upturn indeterminate
from distance observed but smaller in length
than Godwits.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count ↓ HO	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevtn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 <u>AREI</u>	<u>10.6</u>	<u>1</u>	<u>T</u>					
2 <u>PaBd</u>	<u>2.08</u>	<u>3</u>	<u>P</u>					
3 <u>Dart</u>	<u>10.1</u>	<u>3</u>	<u>P</u>					
4 <u>Uicwr</u>	<u>8.3.5</u>	<u>3</u>	<u>P</u>					
5 <u>WFFtn</u>	<u>1.8.8</u>	<u>1</u>	<u>P</u>					
6 <u>SiGL</u>	<u>1.2.5</u>	<u>6</u>	<u>P</u>					
7								
8								
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Use the
Wetland Map on
the back of
this form
to mark...

C/V

☐ ☐
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1. approximate
positions of
any active
nests found
(SN, e, yn).
2. the route
of your
survey;
3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

2.3

Sheet Ref.

2.1

Observer

211

Comb./Spare

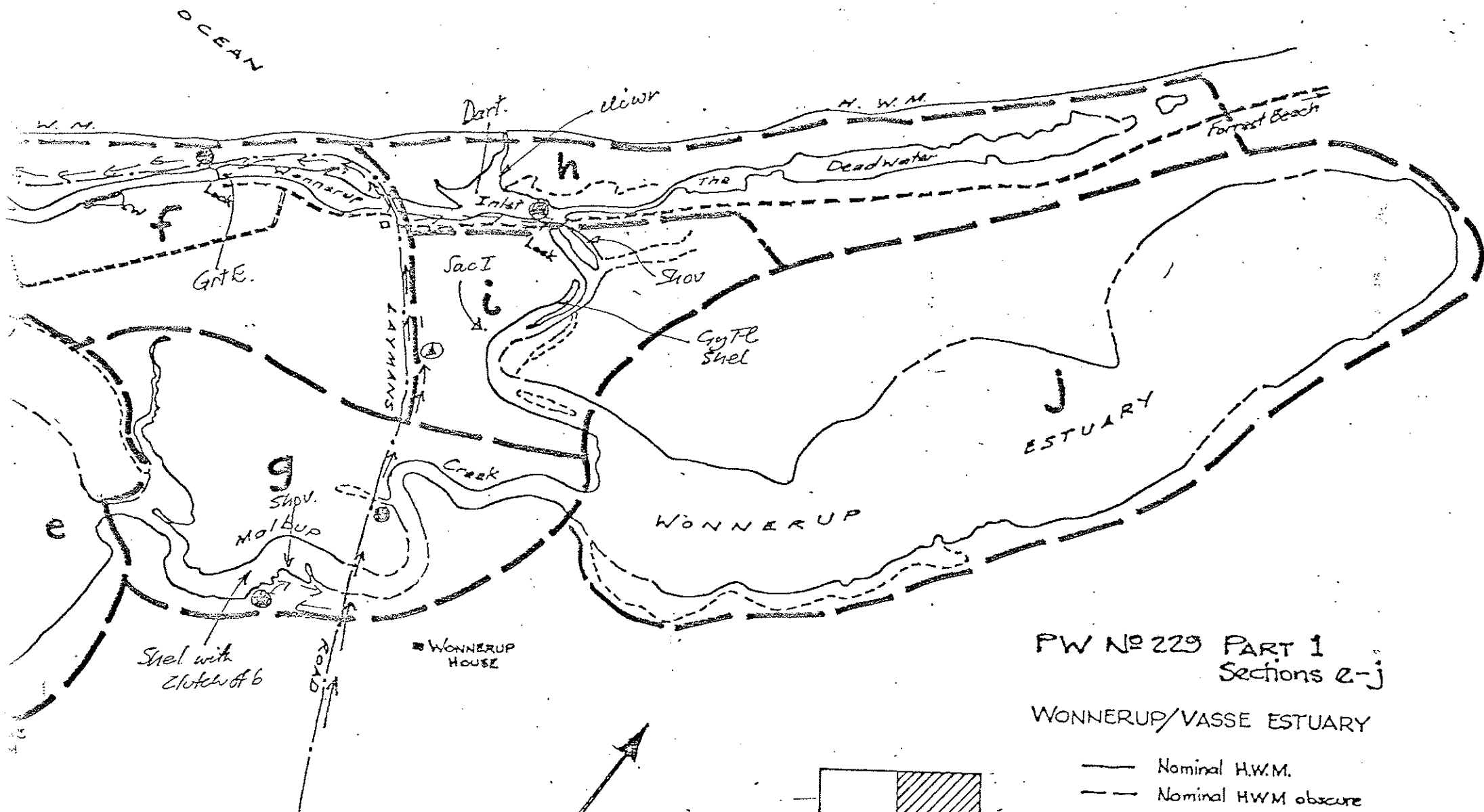
RETURN to

69 Lanark

St, Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



PW No 229 PART 1
Sections e-j

WONNERUP/VASSE ESTUARY



SURVEY DATE
18/8/1982

- Nominal H.W.M.
- - - Nominal H.W.M. obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at H.W.
- Observation point
- Survey route
- Extent of water observed (if not H.W.) (See Note)

WATER LEVELS - ALL SECTIONS

Generally receded ~10m
in the horizontal but map
scale too small to show
differentiation to nominal H.W.M.

SCALE 1:20000



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WATERBIRD USAGE

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Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNEBOUP/VASSE ESTUARY

P.W.No. 229 Part No. 1 (b)

Date of Survey 19.08.82 Start/Finish 08.00-08.45 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

waterline receded ~ 10m from that observed 22/7/82.
Significant increase in populations since that date.
GyTL grouped (largely) with exceptions of a few pairs.
Shov. generally in pairs in groups
Wick distributed throughout area
observed on far side - possibly GyTL, PaBd.

SPECIES

English Name
Abbrevtn.
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit ↓)

Tor P:
Total
or Partial
Count
↓ HOY

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 SacI 17.9

...6 P

2 Swan 20.3

...7.2 P

3 Shov 20.7

...3.8 P

4 WfHn 18.8

...4 P

5 GyTL 21.1

...2.3.0 P

6 Shov 21.2

...1.4 P

7 BuSt 14.6

...1.3 P

8 Wick 83.8

...2.7.0 P

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

2.4

Sheet Ref.

2.1

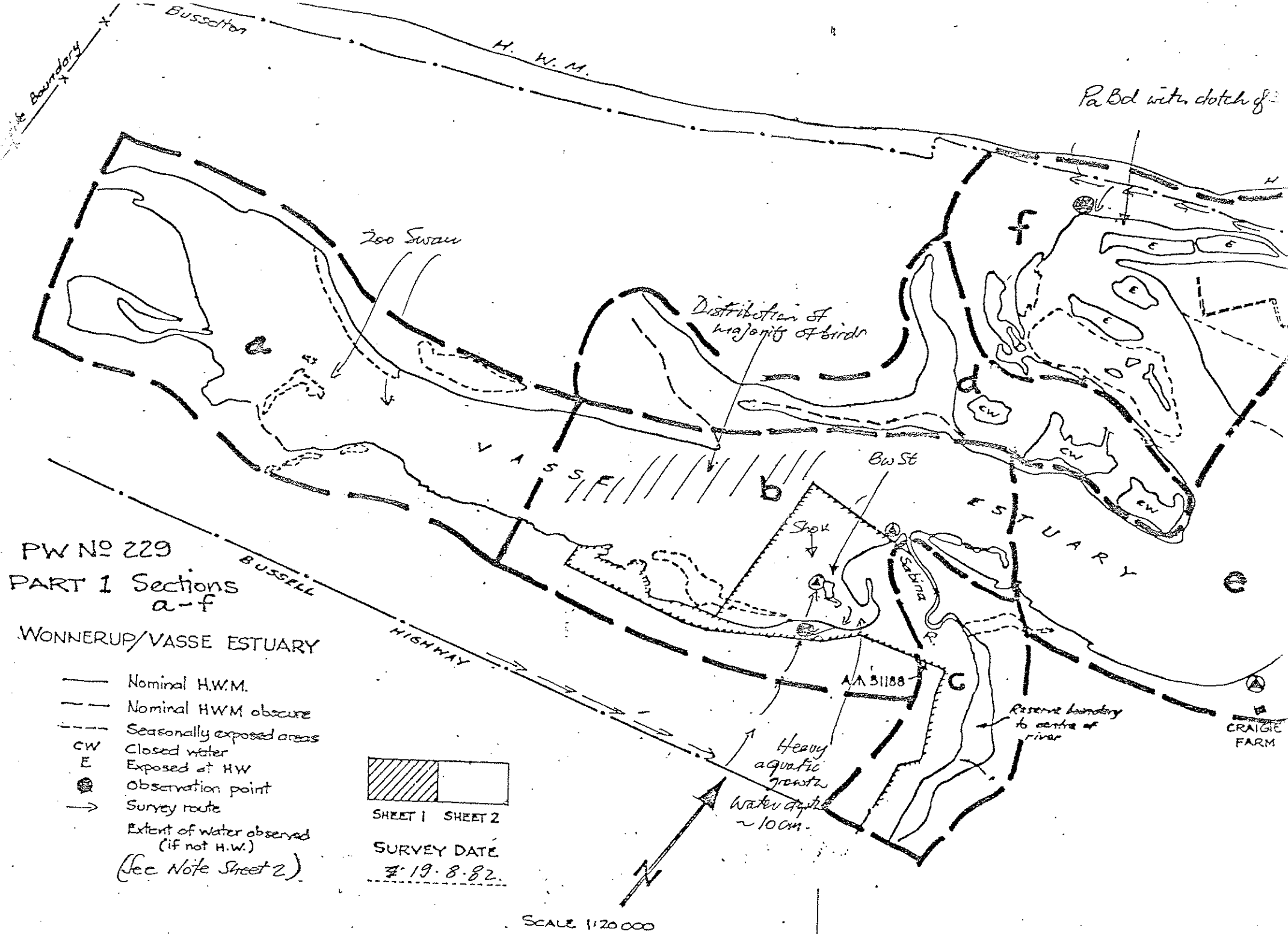
Observer

...

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



PW NO 229

PART 1 Sections a-f

WONNERUP/VASSE ESTUARY

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Authority & situated in the
South-West & Eucla Divisions.Observer BT C. MASTERS phone 097 272474
Address C/- POST OFFICE CAPELWetland Nature Reserve name VASSE ESTUARY SABINA RIVER RESERVEP.W.No. 229 Part No. (b&c)Date of Survey 1.8.09 Start/Finish 1.9.02 Sheet of 0.9.0.5/1.1.0.0 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

SAME WATER LEVEL AS LAST SURVEY
I.E. APPROX 50CM IN DEEPEST PART. ADVISED
BY LAND OWNER THAT Shel, Pa BD + Gy TI
BREEDING ON PRIVATE BLOCKS ON
S.W. BOUNDARY OF RESERVE.

BWSt (146) - OVER 30 JUVENILES SEEN.

FOLLOWING SPECIES SEEN ON SABINA R:-

RNAH (192) + 42 Gy TI (211)

NOTE: ALL SIGHTINGS WERE MADE WITHIN RESERVE BOUNDARIES

SPECIES

English
Name
abbrevtn.
(4 letters)RAOU
Atlas
No.Total
number
of birds
recorded
(last digit)Tor P:
Total
or Partial
Count
↓ HOYBREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Shel 2,0,7

, , , 3,5 T

✓

2 SWAN 2,0,3

, 2,5,5 T

✓ ✓ ✓

3 Shov 2,1,2

, , , 1,2 P

4 Pa BD 2,0,8

, , , 3,2 P

✓

5 BWSt 1,4,6

, , 1,3,2 P

✓

6 Gy TI 2,1,1

, 3,1,9 P

✓

7 Hard 2,1,5

, , , , 5 T

8 Snk I 1,8,0

, , , , 2 T

9 WF Hn 1,8,8

, , , , 2 P

10 Sac I 1,7,9

, , , , 2 T

11 Pu Sn 0,5,8

, , , , 1 P

12 RN hn 1,9,2

, , , , 1 P

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

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11

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

2.5

Sheet Ref.

27

Observer

11

Comb.// Spare

RETURN to

69 Lanark

St. Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves
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Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVILLE

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY postcode 6056
P.W. No. 229 Part No. I Section g

Date of Survey 0.3.1.1.982 Start/Finish 1.6.30/1.7.00 Sheet I of I
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather cloudy, windy.
Water levels at HWM. Appears even higher than at last survey in August.

aidk - Probably comprised of Pa Bd, Hard, Gy TC
Gy TC - clutches (2) - 6 at 2wks age / 5 at 4wks
Pa Bd - " (2) - 6 at 4wks / 6 at 2wks
Swan - Includes 4 large immature (semi-downy)

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Gy TC	21.1	44	P					✓
2 Pa Bd	20.8	65	P					✓
3 Shel	20.7	3	P					
4 LPi C	10.0	6	P					
5 Grt E	1.8.7	2	P					
6 Hard	21.5	169	P					
7 AuGb	0.6.1	14	P					
8 Shov	21.2	3	P					
9 Swan	20.3	11	P					
10 Coot	0.5.9	4	P					
11 WFHu	1.8.8	8	P					
12 Pe Hu	1.8.9	4	P					
13 Sac I	1.7.9	4	P					
14 Aidk	83.8	100	P					
15 Li wr	8.3.5	1	P					
16								
17								
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

23.9
P.W. No.

1
Part

2.6
Sheet Ref.

2.1
Observer

21
Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGEof
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer B. K. KNEEBONE phone
Address 72 VIVEASH Rd SwanviewWetland Nature Reserve name WONNERUP/VASSE ESTUARY postcode 6056
P.W.No. 229 Part No. I 6Date of Survey 03/1/1982 Start/Finish 1.7.00/1.7.20 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: weather - cloudy, windy
water levels at H.W.M.

Shel - 4 juveniles, age 3-4 mths.

GyTL - 2 separate clutches 1 of 4 age 1st
 1 " 1 " "RNHn - roosting under bridge alongside
 locks

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOV	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Pa Bd	20.8	...1.0	P					
2 Gy TL	21.1	...3.5	P					✓
3 L Pi C	10.0	...1	P					
4 Hard	21.5	...2	P					
5 Swan	20.3	...1	P					
6 Snk I	18.0	...1	P					
7 WFHn	18.8	...2	P					
8 Shel	20.7	...4	P					
9 Coot	05.9	...1	P					
10 RNHn	19.2	...1	P					
11 Grt E	18.7	...1	T					
12 Li BC	09.7	...1	P					
13								
14								
15								
16								
17								
18								
19								
20								

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

27
Sheet Ref.21

Observer

211

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGEof
Wetland Nature Reservesvested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer B. K. KNEEBONE phone 2941472
Address 72 VIVEASH RD SWANVILLEpostcode 6056Wetland Nature Reserve name WONNERUP/VASSE ESTUARYP.W.No. 229 Part No. I hDate of Survey 0.3.1.1.9.8.2 Start/Finish 1.7.2.0 1.7.3.0 Sheet L of L

...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: weather - cloudy, windy
water levels at HUSK1.
unable to observe if Inlet Bar open.

SPECIES

English Name
abbrevtn
(4 letters)RAOU
Atlas
No.Total
number
of birds
recorded
(last digit ↓)Tor P:
Total
or Partial
Count
↓ HOVBREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Shel 20.76 P2 ScGL 12.51 P3 LiBC 0.9.71 P

4

5

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19

20

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).2. the route
of your
survey,3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

28

Sheet Ref.

21

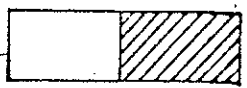
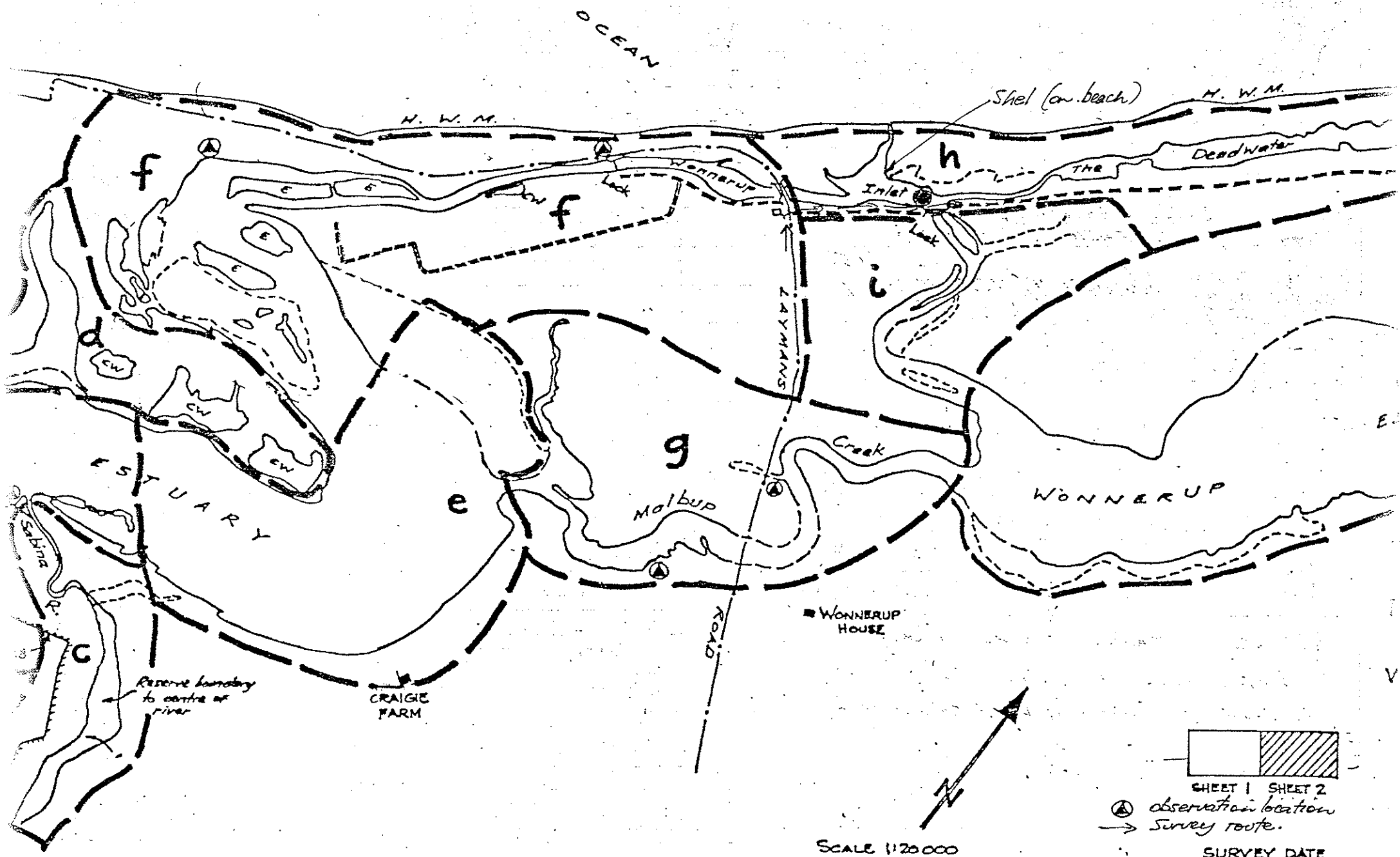
Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



SHEET 1 SHEET 2

⊙ observation location
→ Survey route.

SURVEY DATE

3/11/82.

Scale 1:20000

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WATERBIRD USAGE

of
Wetland Nature Reserves

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY

P.W.No. 229 Part No. 1 f

Date of Survey 0.3/1/1982 Start/Finish 1.7.30/1.8.00 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: weather - cloudy, windy

Water levels at H.W.M.

90% of birds at southern end

uiwr - 2 larger, Greenshanks?

1 Smaller, Dorkerell ui

SPECIES

English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

Use the
Wetland Map on
the back of
this form
to mark...

1 GygR 21.1

2.4 P

2 MusD 21.7

2.1 P

3 AuGb 06.1

1.0 P

4 Shov 21.2

2 P

5 PaBd 20.8

2 P

6 Swan 20.3

4 P

7 Hard 21.5

4 P

8 Uuiwr 8.3.5

3 P

9 Coot 0.5.9

20.0 P

10 GrtE 1.8.7

2 P

11 uigb 8.2.0

4.0 P

12 LpC 10.0

2 P

13

14

15

16

17

18

19

20

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

2.4

Sheet Ref.

21

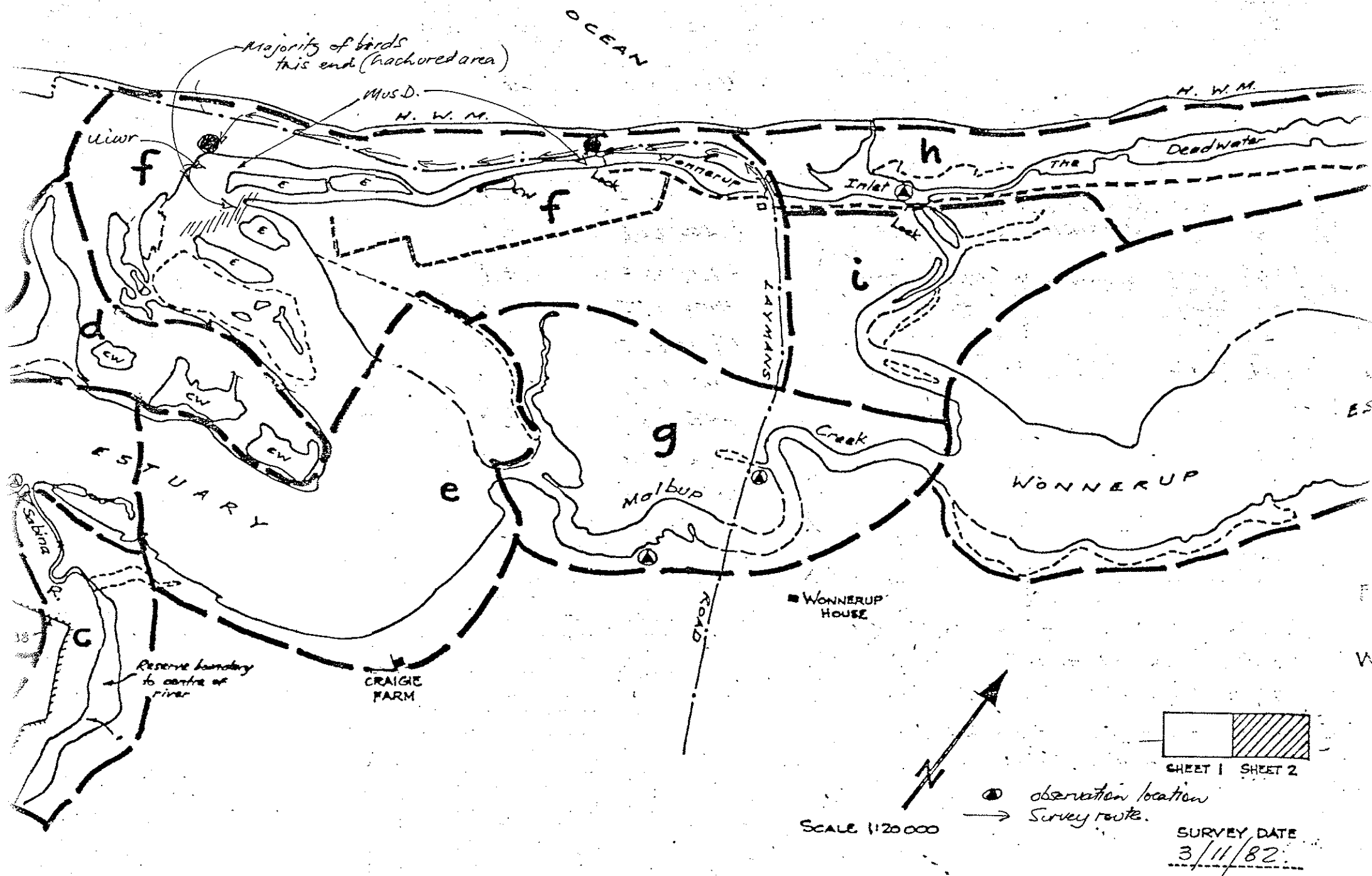
Observer

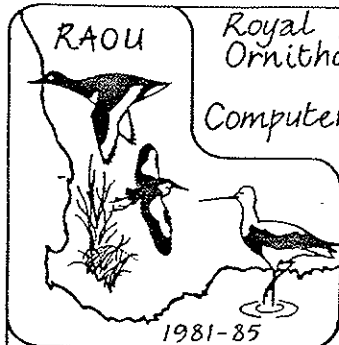
21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.





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WATERBIRD USAGE

of
Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone _____
Address 72 VIVASH Rd Swanview

Wetland Nature Reserve name WONNERUP/VASSE postcode 6056
P.W. No. 229 Part No. 1 (6)

Date of Survey Start/Finish Sheet 1 of 1
03/11/1982 07.45/08.30 eg. 1.00pm = 1300.

04.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather - windy, cloudy, light rain.

Water levels - at H.W.M. + - higher than last survey in August.

Pa Bd - clutch of 6, age ~ 3wks

Swan - One on nest edge, unable to detect if containing eggs.

Almost without exception all birds feeding
Three depth patterns grading shallow - deeper from shore to mid channel used to advantage by
Three bird sizes, smaller to larger respectively.

SPECIES	
English Name abbrevtn (4 letters)	RAOU Atlas No.

1 Swan	203
2 Pa Bd	208
3 Shel	207
4 Shov	212
5 SIGL	125
6 Hord	215
7 WFTu	188
8 Bw St	146
9 Li BC	097
10 Grt E	187
11 Soc I	179
12 RNHu	192
13 Uldk	838
14	
15	
16	
17	
18	
19	
20	

Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOW
---	--------------------------------------

390	P
69	P
270	P
2	P
26	P
15	P
1	P
6	P
2	P
2	P
1	P
100	P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

C/V

11
11
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11

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

239

P.W. No.

1

Part

30

Sheet Ref.

21

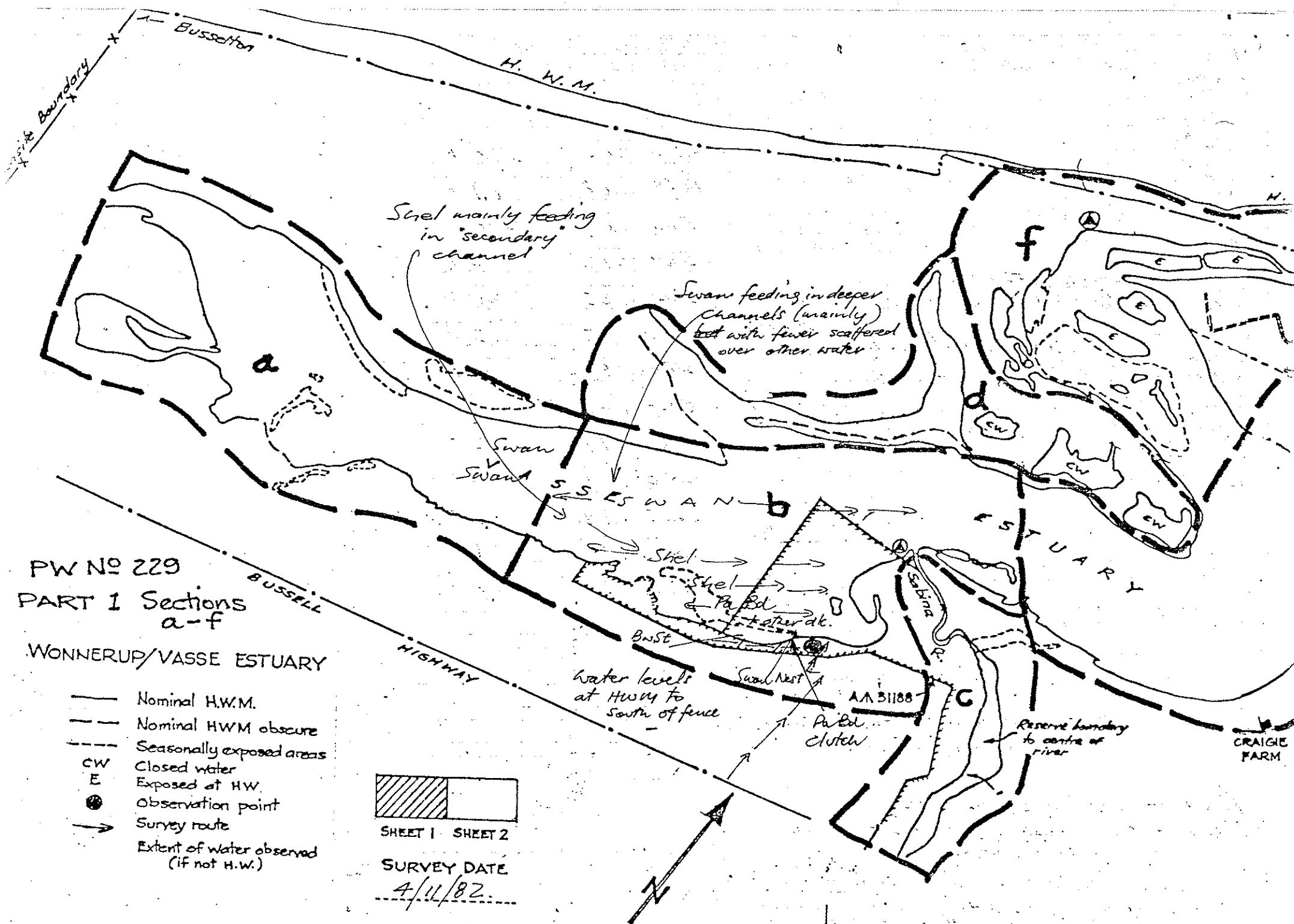
Observer

211

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

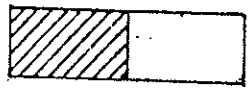


PW No 229

PART 1 Sections a-f

WONNERUP/VASSE ESTUARY

- Nominal H.W.M.
- - - Nominal HWM obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at HW
- Observation point
- Survey route
- Extent of water observed (if not H.W.)



SHEET 1 SHEET 2

SURVEY DATE

4/11/82.

SCALE 1:20 000

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reservesvested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer B+C. MASTERS phone (097) 272674Address C/- POST OFFICE CAPELWetland Nature Reserve name PASSE ESTUARY, SABINA RIVERP.W.No. 229 Part No. bxcDate of Survey 1.4.1.19.82 Start/Finish 07.10.09.50 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: WEATHER - OVERCAST, LITTLE OR NO WIND.BWSt - AT LEAST 3 JUVENILES SEENPa BD - 20 SEEN ON RIVER (SABINA)Shel - ABOUT HALF OF ALL BIRDS SEEN WERE ALMOST FULLY GROWN YOUNGGyTI - AS FOR ShelSnkI - FLYING OVERHEADSwan - ABOUT 25% AS FOR ShelSacI - FLYING OVERHEADRAHn - 1 JUVENILE

SPECIES

English
Name
abbrevtn
(4 letters)RAOU
Atlas
No.Total
number
of birds
recorded
(last digit y)Tor P:
Total
or Partial
Count
Count
↓ HOVBREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 W F H n 1,8,8

2 L i B C 0,9,7

3 B W S t 1,4,6

4 P a B D 2,0,8

5 S h e l 2,0,7

6 G y T I 2,1,1

7 M a H a 2,1,9

8 S n k I 1,8,0

9 P i e C 0,9,9

10 L A C 1,0,0

11 S w a n 2,0,3

12 H h G b 0,6,2

13 H a r d 2,1,5

14 G r t e 1,3,7

15 S a c I 1,7,9

16 R N h n 1,9,2

17 S i G I 1,2,5

18

19

20

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1

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13

14

15

16

17

18

19

20

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

3.1

Sheet Ref.

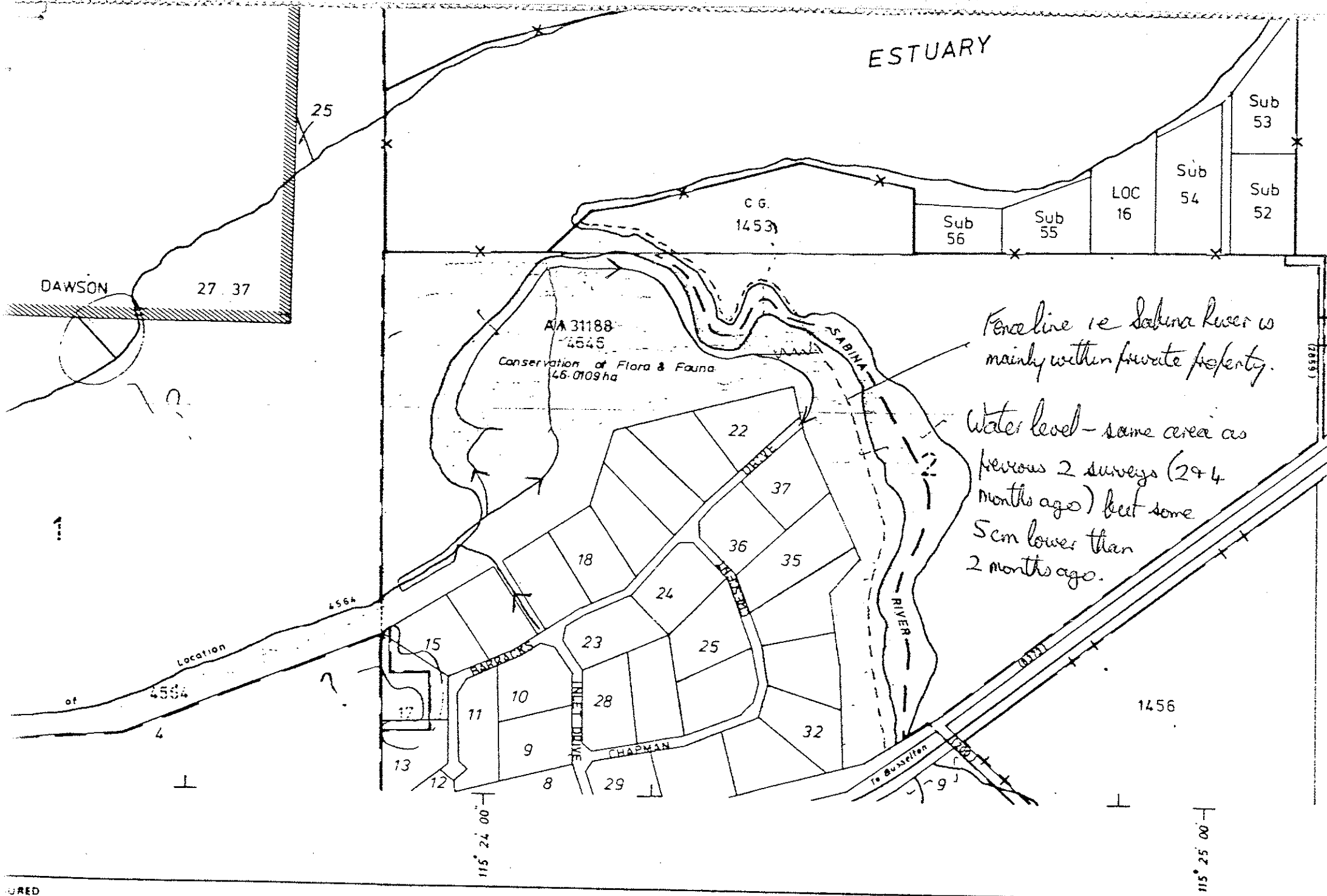
2.7

Observer

1

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.



Fence line re Sabina River is mainly within private property.

Water level - same area as previous 2 surveys (29 & 4 months ago) but some 5cm lower than 2 months ago.

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WATERBIRD USAGE

of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions

1981-85

Observer L. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY

P.W. No. 229 Part No. C

Date of Survey 28/12/98 Start/Finish 09.00/09.25 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Water levels substantially below
HWM and reading.

Uliwr - Medium size water feeding with
BwSt. Approx 2/3 size of BwSt.
Too far for accurate ident. but most
similar to Marsh Sandpiper

SPECIES
English
Name
abbrevia.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit ↓)

Tor P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 WFFH 1.88

2 ARI 1.0.6

3 LPI 1.0.0

4 LIC 0.9.7

5 Dart 1.0.1

6 Sege 1.2.5

7 GrtE 1.8.7

8 SacI 1.7.9

9 BwSt 1.4.6

10 GytC 2.1.1

11 PceC 0.9.9

12 SntI 1.8.0

13 Uliwr 8.3.5

14 PaBd 2.0.8

15 Swan 2.0.3

16

17

18

19

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1.0

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2.6

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1

14

2

6

24

44

1

4

1

19

6

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

3.3

Sheet Ref.

2.1

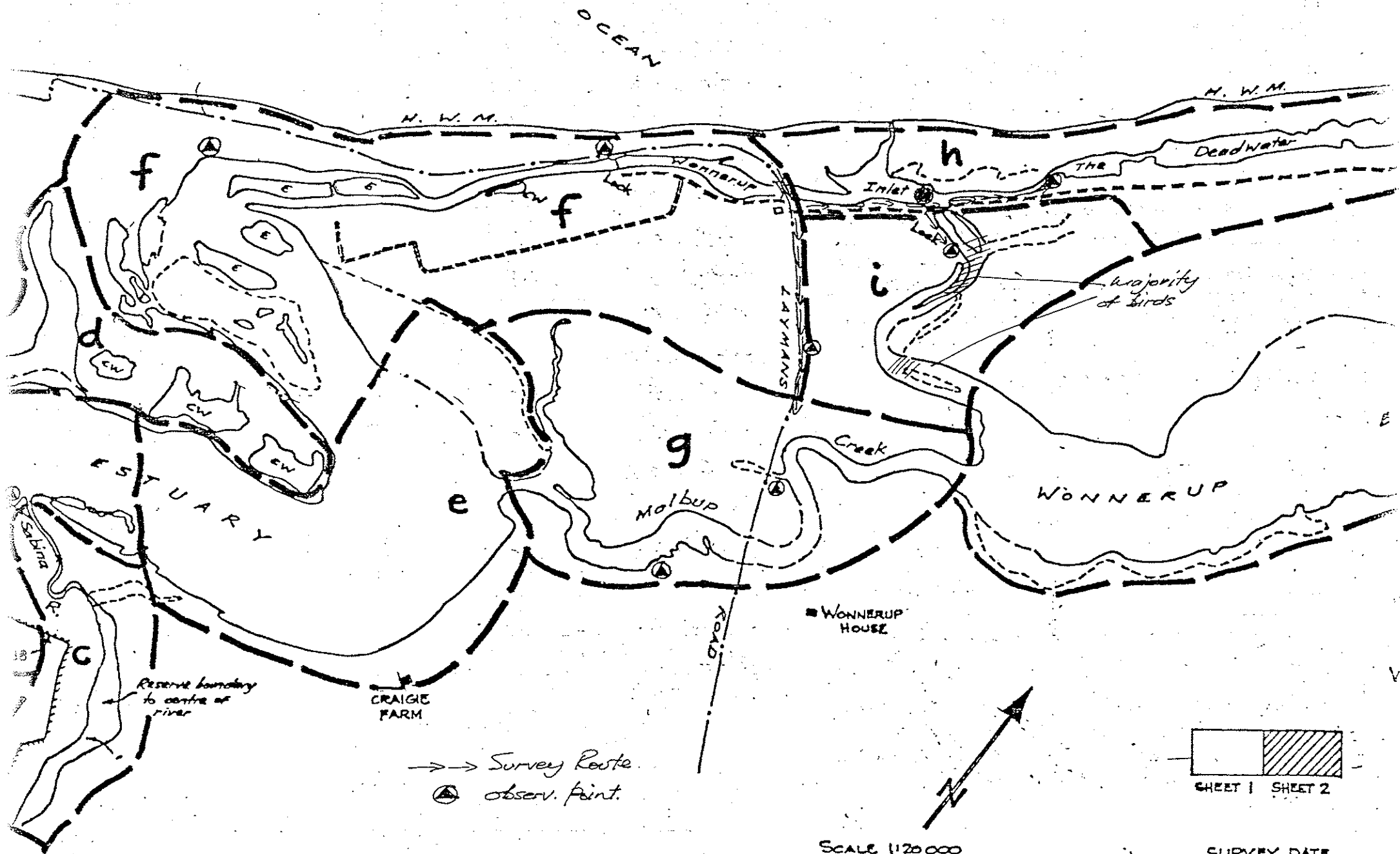
Observer

21

Comb/Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



SURVEY DATE
28/12/82

RAOU

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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 294 1472

Address 72 LIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE ESTUARY

P.W.No. 229 Part No. "F"

Date of Survey 27/12/1982 Start/Finish 1.6.3.0/1.8.3.0 Sheet 1 of 2

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. B

Comments: Water levels just below HWN and receding. Westerly winds at 10-15k.

Birds generally distributed throughout but as would largest concentrations in southern "bay". River or channel section contained ~ 20% in number.

Water Sample: Na Cl 3500 ppm (see map).

Survey partially with and without canoe.

Breeding: GyTL - 3x clutches of 8, 3 & 4 aged between 4 & 8 weeks.

Shov - 1x clutch of 2 aged ~ 6 wks.

Other Obs. Whistling Lark - 8, all together - perched
Swamp Harrier - 1 in flight

SPECIES

English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit ↓)

T or P
Total
or Partial
Count
↓ HO

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 GyTL 21.1

3.18 P

✓

2 SacI 1.79

6 T

3 RNhn 1.9.2

7 P

4 PeC 0.9.9

1.3 P

5 LPeC 1.0.0

3.5 P

6 LiBC 0.9.7

1.4 P

7 GreC 0.9.6

8 P

8 Dart 1.0.1

1.0 P

9 WFHn 1.8.8

1.2 P

10 PaBd 2.0.8

8.7 P

11 MusD 2.1.7

3.1 P

12 Hard 2.1.5

3.0 P

13 Swan 2.0.3

1.0.9 T

14 SnkI 1.8.0

2.5 T

15 Coot 0.5.9

7.8 P

16 APeI 1.0.6

1.4 T

17 Wigr 8.2.0

1.0 P

18 AUGB 0.6.1

3.8 P

19 HhGB 0.6.2

6 P

20 Shel 2.0.7

7 P

Use the
Wetland Map on
the back of
this form
to mark...

C/V

11

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11

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11

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

3.4

Sheet Ref.

2.1

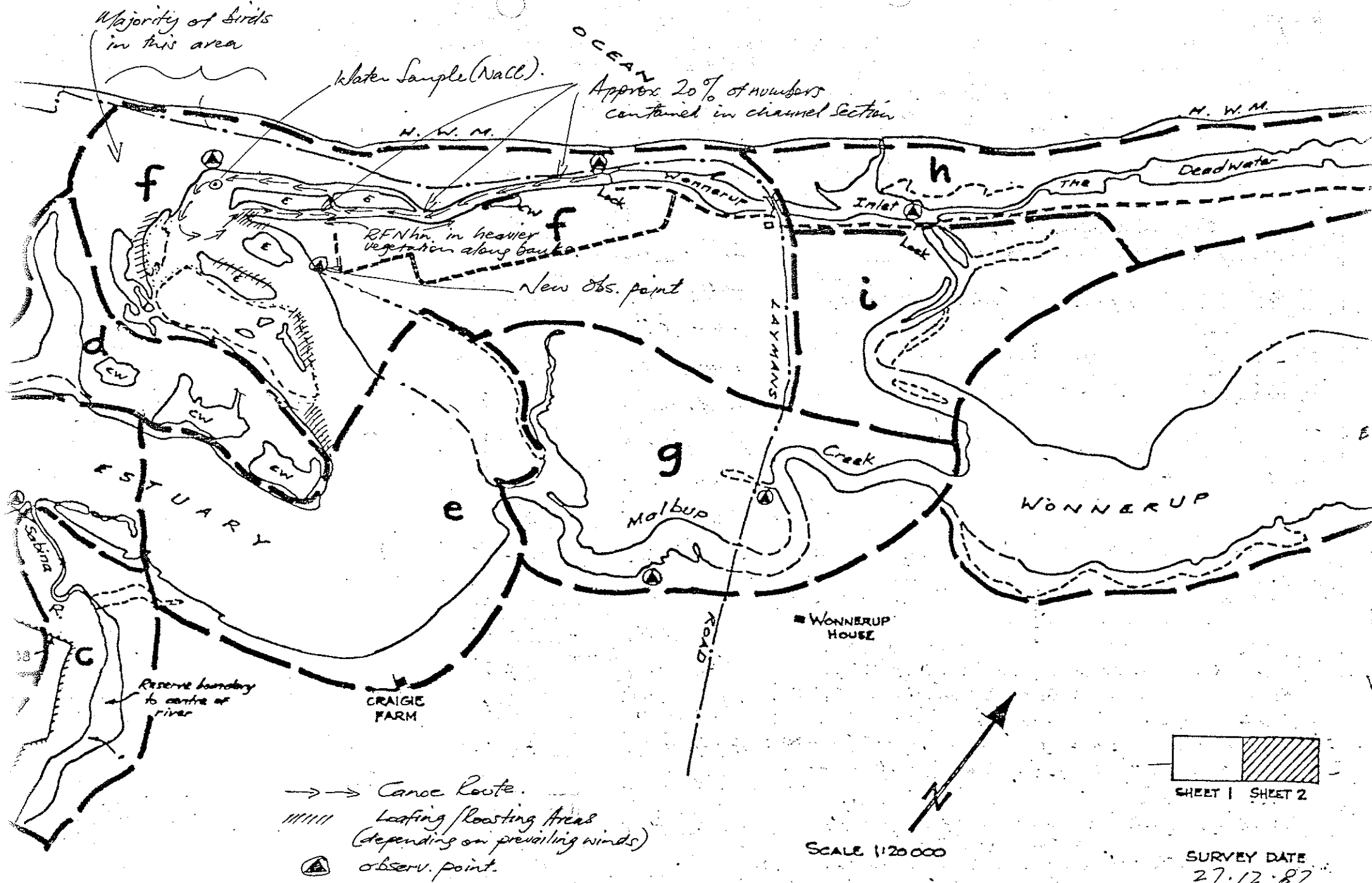
Observer

131

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 941472

Address 72 VIVEASH RD SWANVILLE

Wetland Nature Reserve name WONNERUP / VASSE ESTUARY

P.W.No. 229 Part No. F

Date of Survey 2.7.1.21.9.8.2 Start/Finish 1.6.3.0 / 1.8.3.0 Sheet 2 of 2

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W

2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N

3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L

4. Used a telescope (T)? If not, put an X. X

5. Used a boat (B)? If not, put an X. B

Comments: See Sheet 1.

General: Local resident (pers. comm.) considers water levels substantially higher for this time of year than usual - reflected (he says) in apparent greater numbers of birds on estuary and less on other waters in district, such as the artificial wetlands on the Capel/Ludlow irrigated areas.

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1 GrTE 1.8.7

2 SiGL 1.2.5

3 BwSt 1.4.6

4 Shov 2.1.2

5

6

7

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17

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Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓
---	----------------------------------

1.4 T
1.0 1 T
1.1 T
5 P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey;

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

3.5

Sheet Ref.

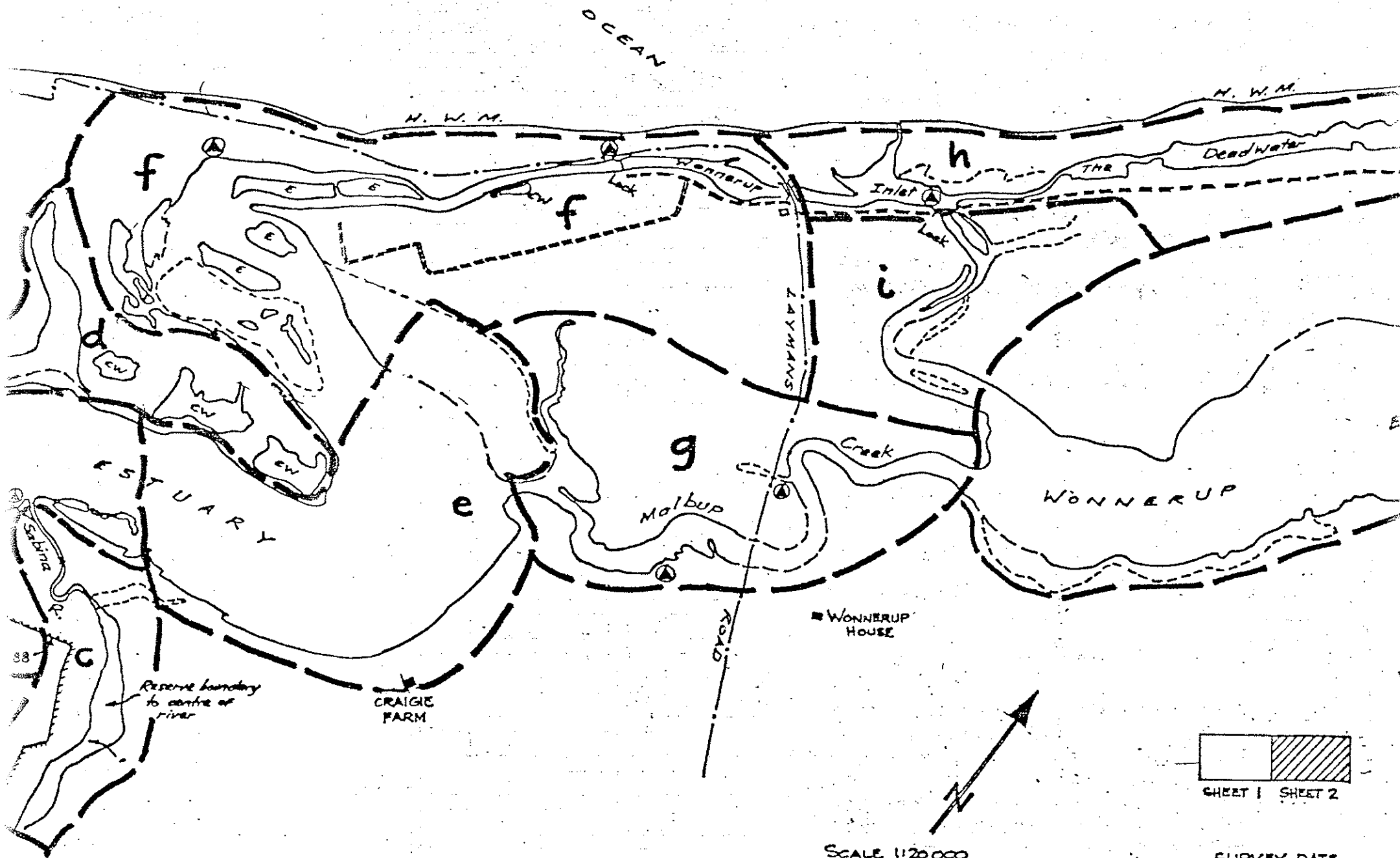
21

Observer

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

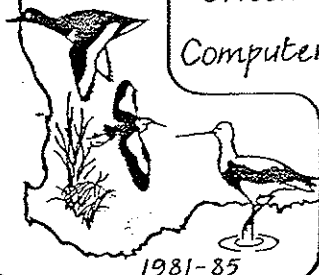
Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



SHEET 1 SHEET 2

SURVEY DATE

SCALE 1:20 000



Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. & C.T. MASTERS phone 097 272474
Address 4 - PO CAPEL

Wetland Nature Reserve name VASSE ESTUARY & SARINA RIVER postcode 6271
P.W.No. 229 Part No. b & c -

Date of Survey Start/Finish Sheet 1 of 1

14.01.1983 08.10.1985 eq. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

On Sabana River: 2 WfHn. } Included in
3 GyTk
5 PaBD
1 LPiC
1 GrtE
4 RNhn
1 SgcI

3 GrtE seen N of reserve on N side of Estuary
15 RnAV " " " " " " " "

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HO✓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevtn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 WFN	1,8,8	...	5 T					
2 RenS	1,6,2	...	4,1,5 P					
3 CorS	1,6,1	...	3,1 P					
4 SiGL	1,2,5	...	6,1,0 T					
5 BwSt	1,4,6	...	6,2 T					
6 GyTL	2,1,1	...	1,3,4 P					
7 PaBD	2,0,8	...	3,3 P					
8 ShtS	1,6,3	...	3,0 P					
9 Gank	1,5,8	...	1 P					
10 LpIC	1,0,0	...	9 P					
11 Shel	2,0,7	...	5,2 T					
12 Swan	2,0,3	...	2,1 T					
13 GrtE	1,8,7	...	5,1 T					
14 Hard	2,1,5	...	1 P					
15 PPeL	1,0,6	...	7 T					
16 RNhn	1,9,2	...	4 P					
17 SacI	1,7,9	...	1 T					
18 RcaP	1,4,3	...	8,5 P					
19 Ulor	8,3,5	...	4,0 P					
20 RnAv	1,4,8	...	1,5 P					

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information

OFFICE USE

229

P.W. No.



Part

36
Sheet Ref.

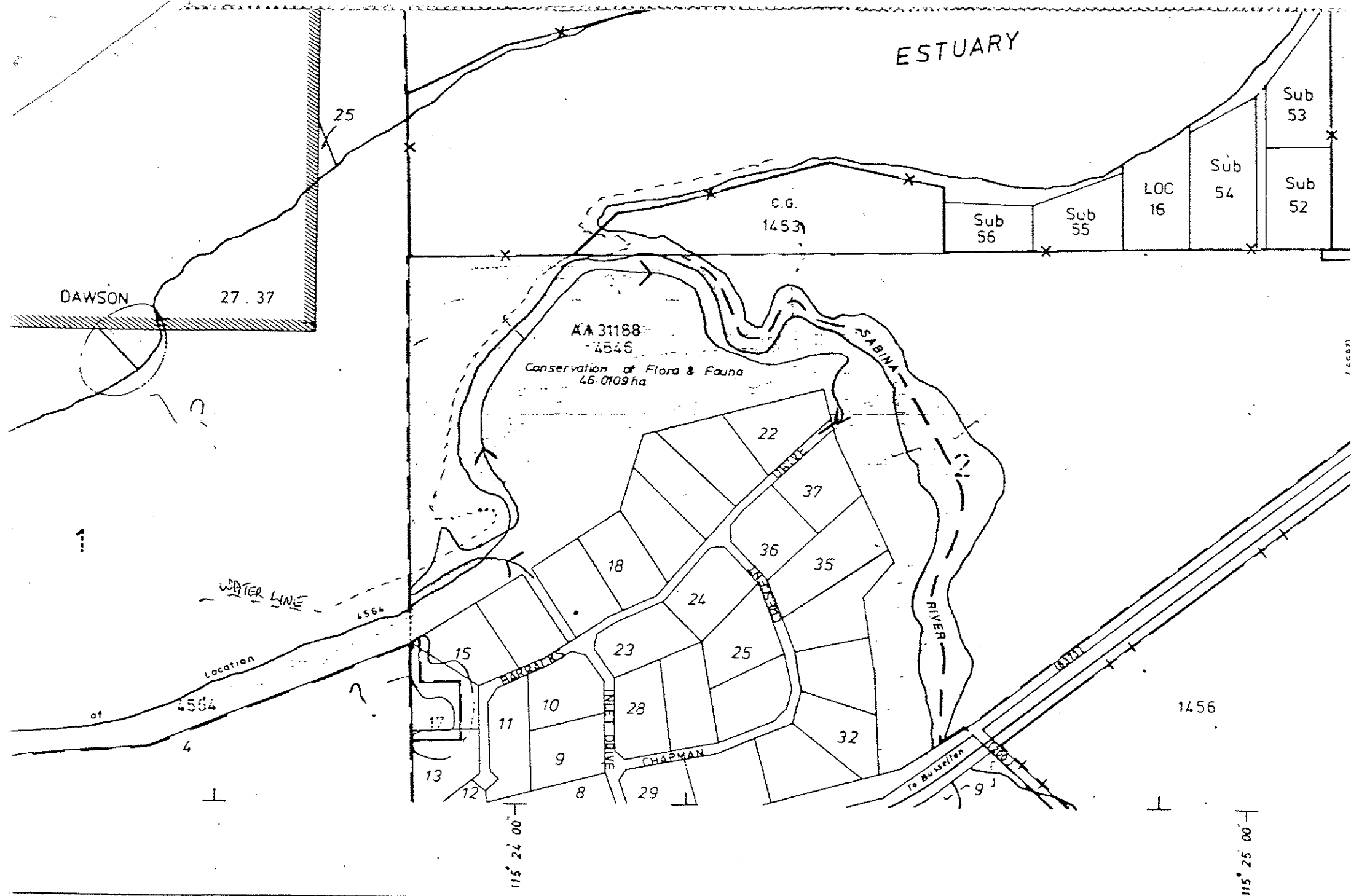
27

Observer

Comb. // Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



COLOURED

Extra Comments:

Water depth is greatly reduced over previous 2 surveys.

Sabina R no longer flowing & is a series of pools.

Amongst dead birds found at the mouth of the Sabina River were 1 Nankin N Heron
and 1 Aust. Shelduck, both probably taken by foxes or cats.

A few clumps of feathers found along the Sabina, suggesting duck shooters ??

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South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE/WONNERUP ESTUARIES

P.W.No. 229 Part No. 1 (F)

Date of Survey 23.02.1983 Start/Finish 16.30/17.15 Sheet 1 of 2

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather warm, clear, windy - S.W. at ~ 15kt.

Water Level At area observed, water line ~ 10m from nominal H.W.M. i.e. wet and periphery, ideal water habitat. Av. depth estimate 30-50cm.

Extensive bird population - most, if not all ducks resting. Waders except group of 600 RnAv quite actively feeding.

Uliwr^s could be Reap + RnS + ShtS + Plover Sp

Distance of observation a problem.

cont. Sht 2.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrev'd (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Swan	20.3	...50	P					
2 Bw St	14.6	...130	P					
3 Cy Tr	21.1	...300	P					
4 Shov	21.2	...26	P					
5 Hard	21.5	...20	P					
6 Pa Bd	20.8	...120	P					
7 Rn Av	14.8	...740	P					
8 Sac I	17.9	...1	P					
9 Shcl	20.7	...120	P					
10 Coot	05.9	...14	P					
11 Pie C	09.9	...32	P					
12 Uliwr	83.5	...800	P					
13 L P C	10.0	...10	P					
14 Au Gb	06.1	...2	P					
15 Maha	21.9	...1	P					
16 Ba St	14.7	...80	P					
17 A Pel	10.6	...30	P					
18 Gank	15.8	...10	P					
19 Uliwk	83.8	...300	P					
20 R Cap	14.3	...2	P					

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

3.7

Sheet Ref.

21

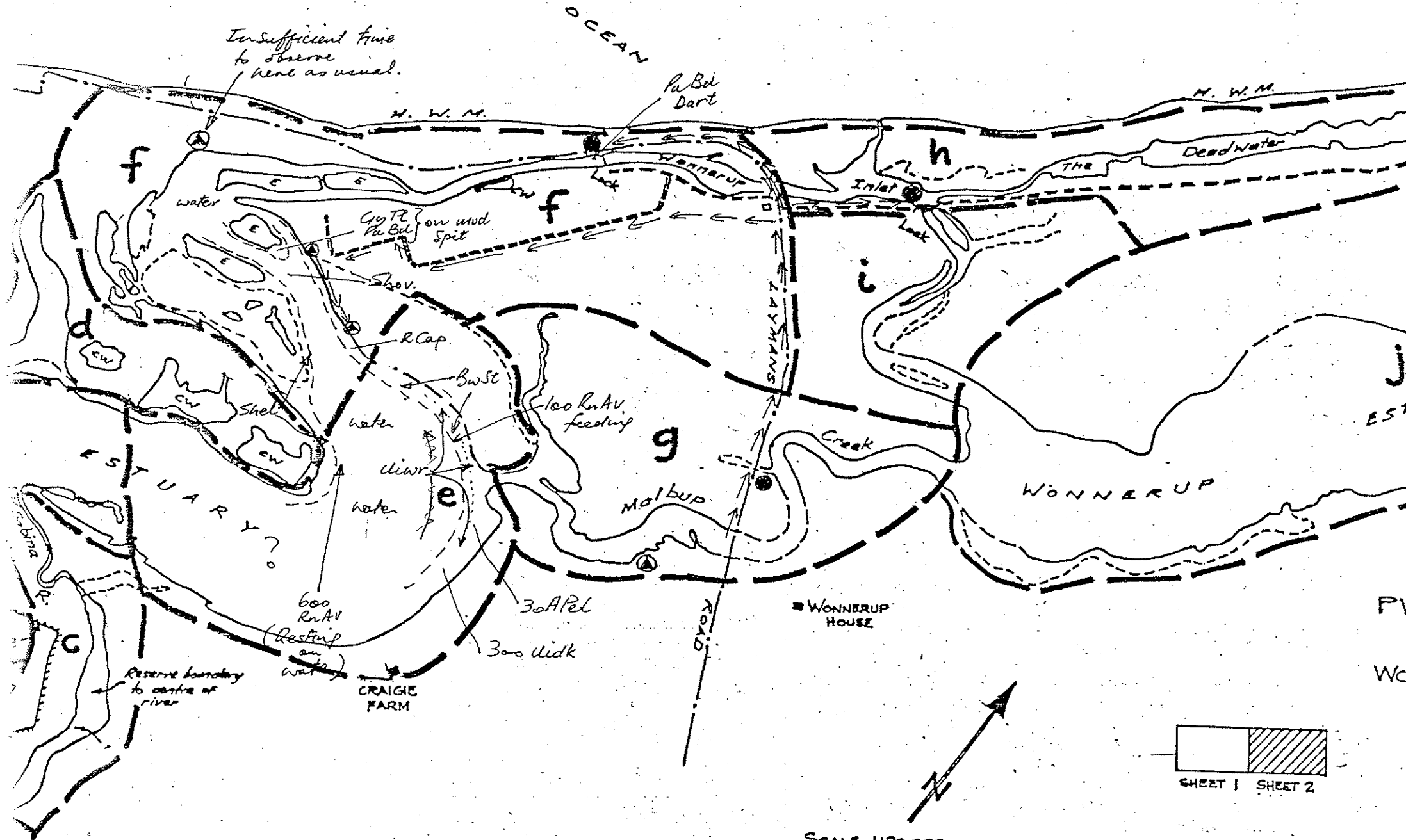
Observer

3/1

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



RAOU

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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone _____

Address _____ postcode _____

Wetland Nature Reserve name VASSE/WONNERUP ESTUARIES

P.W. No. 229 Part No. I 'F'

Date of Survey 23.02.1983 Start/Finish 16.30/17.15 Sheet 2 of 2

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: duck: distance of obs. a problem but probably at Pt. Pa. Bd + Sheel

Whistling Kite - 6 alternately feeding on water's edge on carrion.
(usual number for here).

NOTE The remainder of Sec 'f' not observed could, on previous counts in similar conditions & time, be carrying also a large population of birds, particularly duck sp.

SEE SHEET 1 FOR MAP.

SPECIES

English Name abbrevn (4 letters) RAOU Atlas No.

1 SEGL 1,2,5

2 Dart 1,0,1

3 LiBC 0,9,7

4 _____

5 _____

6 _____

7 _____

8 _____

9 _____

10 _____

11 _____

12 _____

13 _____

14 _____

15 _____

16 _____

17 _____

18 _____

19 _____

20 _____

Total number of birds recorded (last digit ↓)

T or P: Total or Partial Count ↓ HOV

BREEDING: Tick ✓ if these categories were observed... dd DR SN e yn

... 1,0 P

... 2 P

... 2 P

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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

38

Sheet Ref.

21

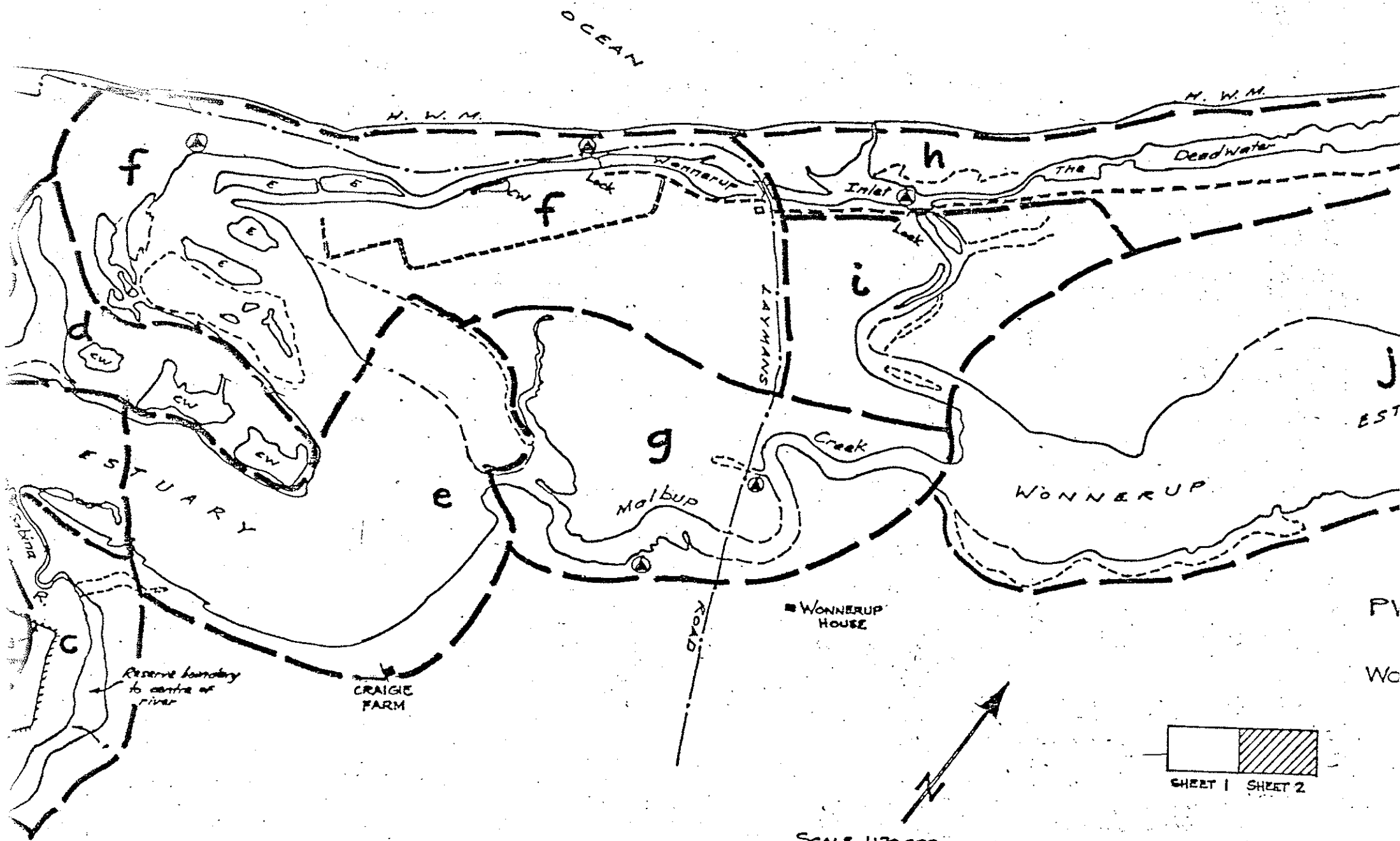
Observer

311

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 941472

Address 72 VINEASH RD SWANVILLE

Wetland Nature Reserve name VASSE / WANNERP ESTUARY

P.W. No. 229 Part. No. 19

Date of Survey 23.02.1983 Start/Finish 17.45 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather warm, clear, windy from SW at ~15kts.

Water level: Receding markedly - all dry except for area shown but would be very shallow.

dick: Sun & distance a problem but probably Pa Bd + GyTL + Hard.

SPECIES

English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

Tor P:
Total
or Partial
Count

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Sac I 179

40 P

2 WFn 188

10 P

3 GrTE 187

3 P

4 GyTL 211

60 P

5 Lick 838

100 P

6 BwSt 146

6 P

7

8

9

10

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

39

Sheet Ref.

21

Observer

21

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Observer B. K. KNEEBONE phone 2941472

Address 72 VIVERASH RD SWANVIEW

Wetland Nature Reserve name VASSE/WONNERUP ESTUARY

P.W. No. 229 Part No. 1

Date of Survey 23/02/1983 Start/Finish 1.7.20/1.7.4.0 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W

2. Put an "A" if you are confident that you found all species present (otherwise put "N"). A

3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X

4. Used a telescope (T)? If not, put an X. X

5. Used a boat (B)? If not, put an X. X

Comments: Weather warm, clear, windy, SW at ~15kt.

Water Level. Only water observed adjacent to inland side of bank but receding slowly here, exposing mud in the channels. Evidence that elsewhere water only recently dried up.

CoyTL resting, also PieC - remaining birds feeding/or flighting.

SPECIES

English Name
abbrevn.
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 CoyTL 211

2 BwSt 146

3 LPeC 100

4 RCap 143

5 SukI 180

6 RenS 162

7 ComS 154

8 PieC 099

9 SacI 179

10

11

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110 P

2 P

2 P

4 P

1 P

50 P

1 P

6 P

1 P

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey.

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

40

Sheet Ref

21

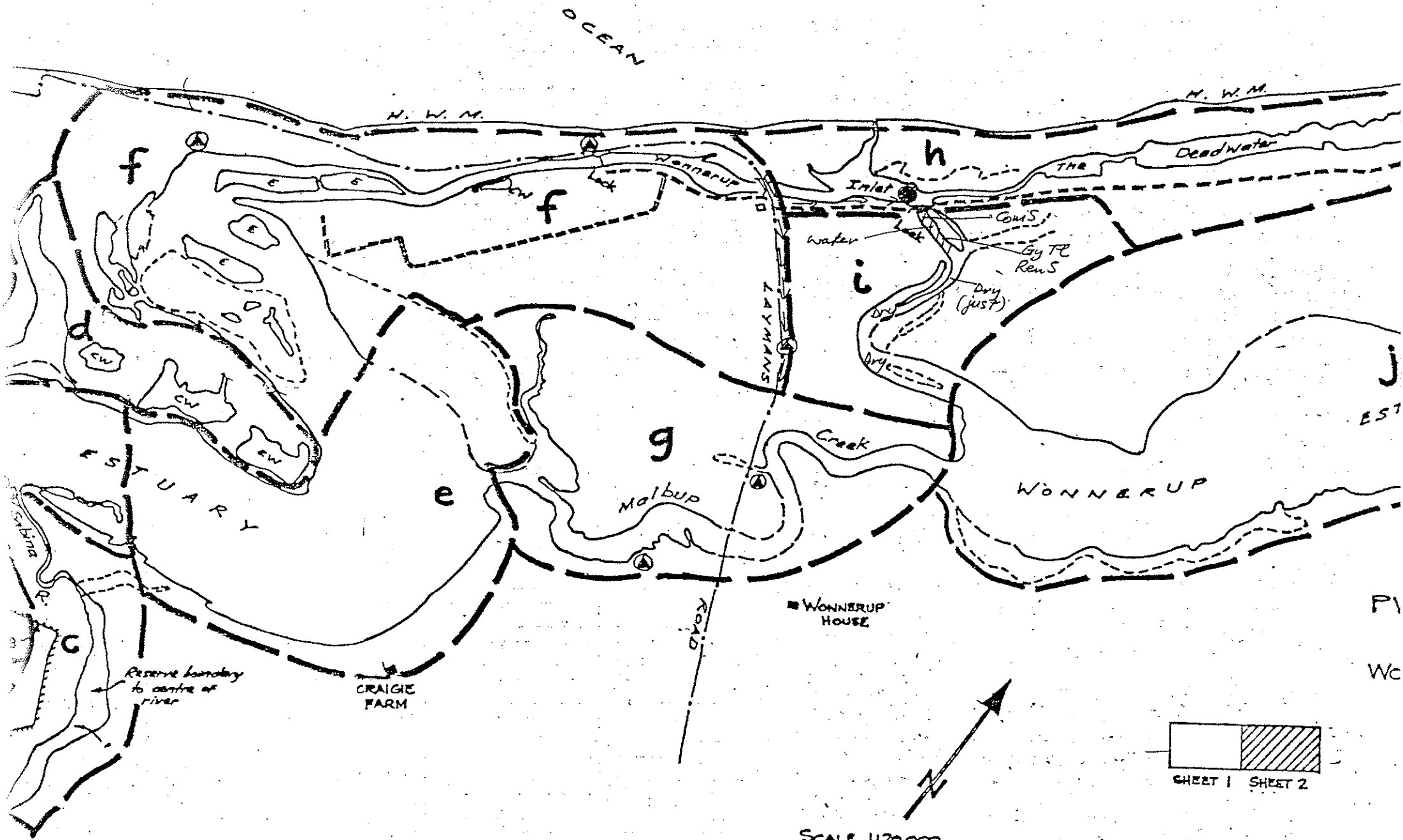
Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



SHEET 1 SHEET 2

Scale 1:20000

SURVEY DATE
23/2/83

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Observer B.K. KNEEBONE phone 2941472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE / WANNINUP ESTUARIES

P.W.No. 229 Part No. I 'B'

Date of Survey 23.02.1983 Start/Finish 1.5.1.5 1.6.1.5 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather warm, clear, windy - S.W. at ~ 15kt.

Water level/Area - receded dramatically - refer map for location extent of available water.

Majority of all birds actively feeding with exception of ~ 40% of Shel (resting on periphery). Large population of birds relative to size of available water + wet mud periphery.

Identification on small waters made difficult by having to look into sun.

cliwr^s could be Rcap + Rens + Curs

SPECIES

English Name abbrev'n (4 letters) RAOU Atlas No.

1 WFFH 1.8.8

2 Shel 2.0.7

3 BwSt 1.4.6

4 Gyl 2.1.1

5 Rcap 1.4.3

6 Rens 1.6.2

7 BaSt 1.4.7

8 Curs 1.6.1

9 cliwr 8.3.5

10

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13

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20

Total number of birds recorded (last digit ↓)

T or P: Total or Partial Count ↓ HO ↓

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

4.1

Sheet Ref.

2.1

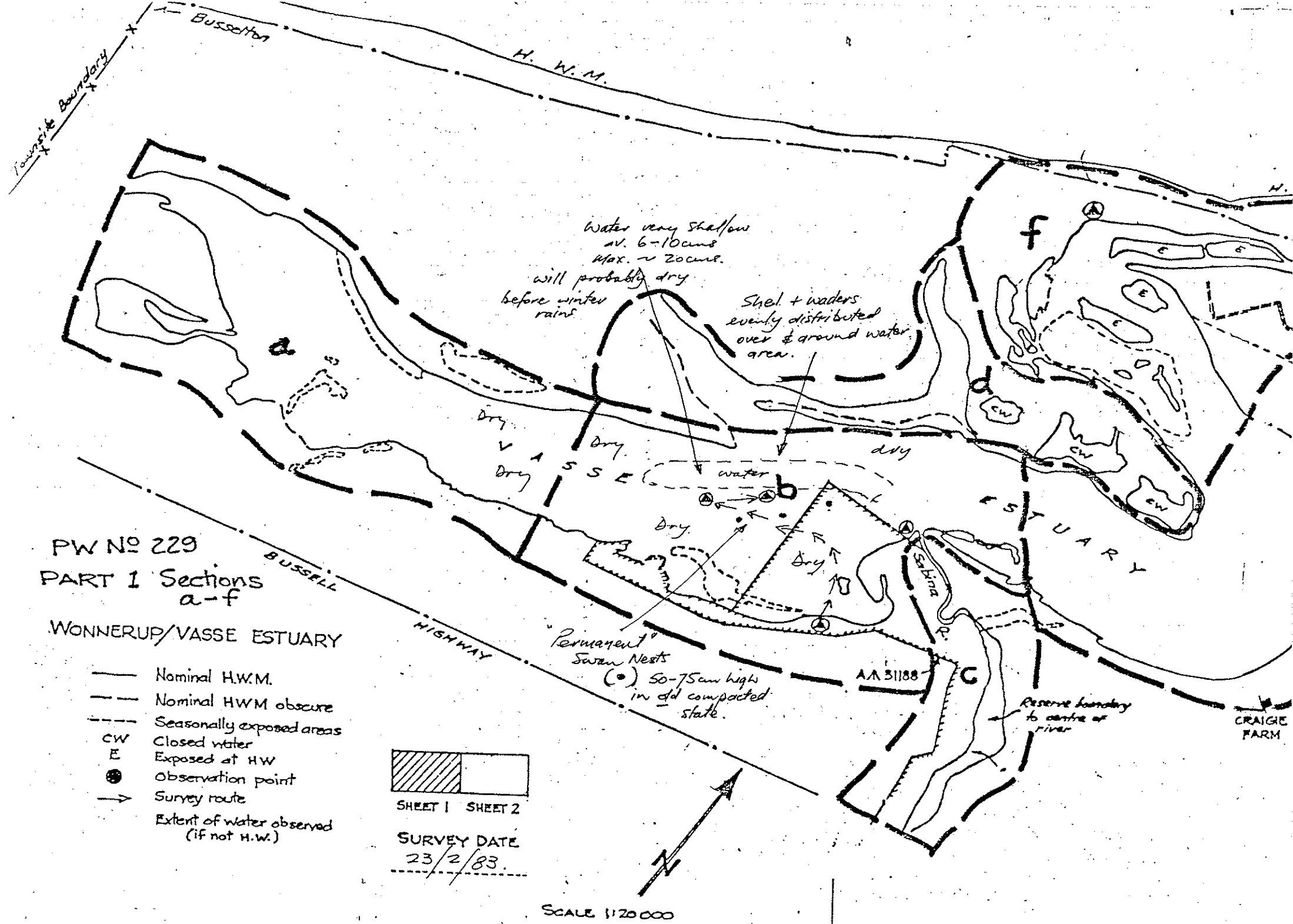
Observer

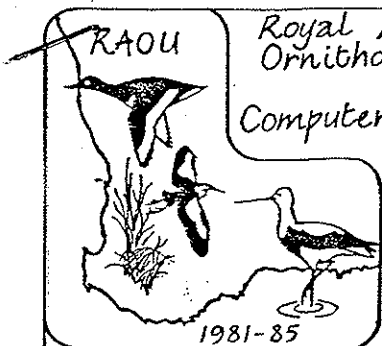
211

Comb./Spare

RETURN to 69 Lanark St., Coolbinia, WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.





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WATERBIRD USAGE

of
Wetland Nature Reserves

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer BK MASTERS phone 272002
Address 9- PO CAPEL

Wetland Nature Reserve name VASSE ESTUARY - SABINA RIVER
P.W. No. 229 Part No. - b+c

Date of Survey 1.3.03 Start/Finish 1.9.8.3 Sheet of
09.40 1.0.4.0...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? D
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

No water in estuary. Red-capped Plovers were found on the dry bed of the estuary, 2 birds gave distraction displays but no nests were found after a high intensity search. All other birds were found within the Sabina River, no nests seen after medium intensity search.

Other species: White Fronted Chat. (2).

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1 RcaP 1,4,3

2 GyTe 2,1,1

3 SacI 1,7,9

4 PaBD 2,0,8

5 WFHn 1,8,8

6 RNhn 1,9,2

7 LPiC 1,0,0

8 BtNh 0,5,5

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Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓
---	----------------------------------

1 18 P

2 2 P

3 1 P

4 4 P

5 6 P

6 3 P

7 2 P

8 4 P

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BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

✓

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

42

Sheet Ref.

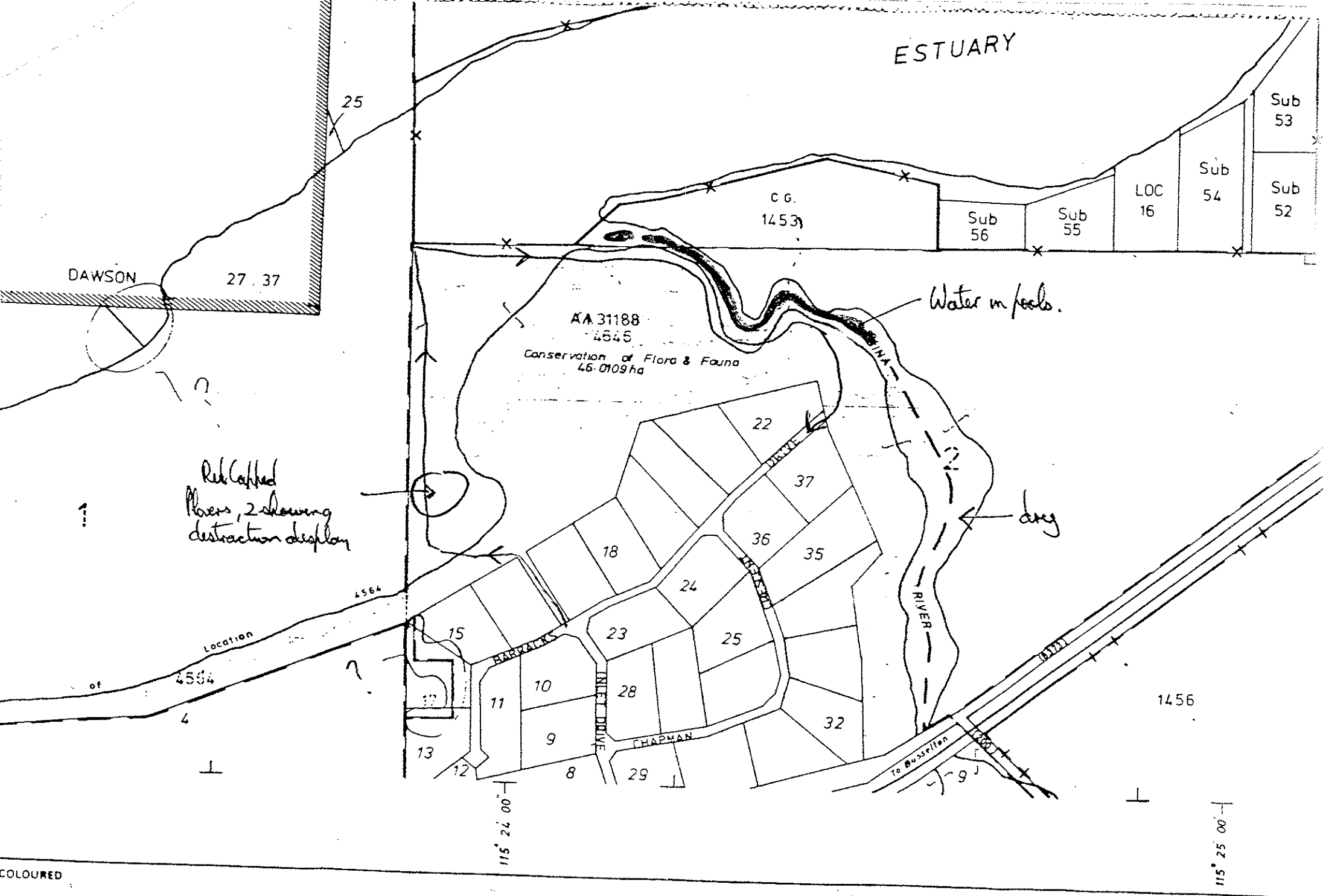
27

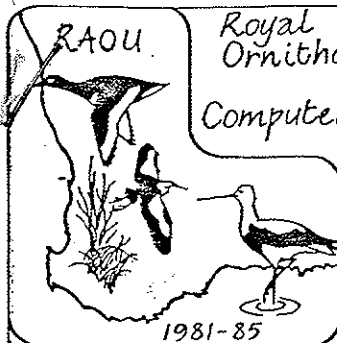
Observer

Comb./Spare

RETURN to
69 Lanark
St. Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.





Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. Kneebone phone 294 1472

Address 72 VIVEASH RD SEANVIEW

Wetland Nature Reserve name WONNERUP / TASSE ESTUARY postcode 6056

P.W.No. 229 Part No. H

Date of Survey 28/2/88 Start/Finish 0830/0900 Sheet 1 of 1

eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W

2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N

3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X

4. Used a telescope (T)? If not, put an X. X

5. Used a boat (B)? If not, put an X. X

Comments: Water levels just below HWY and receding slowly. Nearest water in estuary some 60-80m from bar to ocean.

(Bright)

Li Tern * Red beaked, smaller than Caspian Tern

No apparent black on beak. No visible crest on black hood.

Arctic or Common Tern?

or Whiskered?

SPECIES	
English Name abbrev'n (4 letters)	RAOU Atlas No.

1 GrtE 187

2 WFNH 188

3 Pie C 099

4 SiGL 125

5 RCap 143

6 Dart 101

7 Sac I 179

8 Gre C 096

9 Tern 824

10

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Total number of birds recorded (last digit)	T or P: Total or Partial Count
---	--------------------------------

1 1 P

2 1 P

3 3 P

4 20 P

5 18 P

6 1 P

7 4 P

8 3 P

9 2 P

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BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey;

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

43

Sheet Ref.

21

Observer

21

Comb/Spare

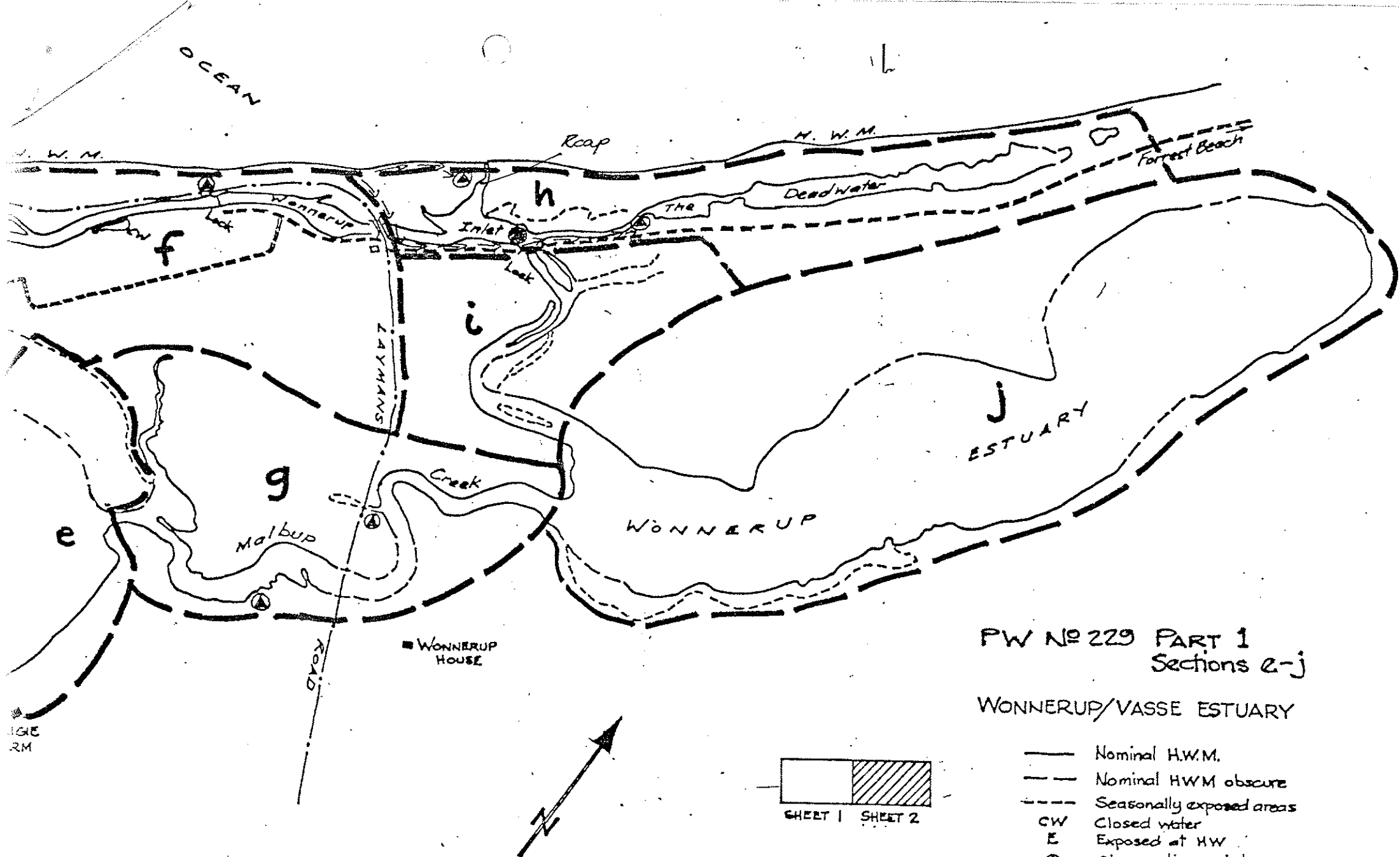
RETURN to

69 Lanark

St., Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



PW NO 229 PART 1
Sections e-j

WONNERUP/VASSE ESTUARY



SURVEY DATE
28/12/82

- Nominal H.W.M.
- - - Nominal H.W.M. obscure
- ... Seasonally exposed areas
- CW Closed water
- E Exposed at H.W.
- ⊙ Observation point
- Survey route
- Extent of water observed (if not H.W.)

RAOU

Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone
Address 72 VIVEASH RD SEAVIEW
Wetland Nature Reserve name WASSE ESTUARY postcode 6056
P.W. No. 229 Part No. f

Date of Survey 16/03/1983 Start/Finish 1.5.30/4.1.0 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather hot, humid, semi-cloud, windless

Water Level — still receding, very shallow
av. depth ~10-15cm with some deeper channels. wide littoral
exposures of mud (soft) & shell
majority of ducks resting (some GYT feeding)
All waders actively feeding.
uiwr — probably Sandpiper sp. (two types)
(distance a problem for ident.)

NOTE: The "river" section running up to locks
not surveyed — no time available.

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓ HOV	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevtn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Pa Bd	208	...12	P					
2 GYT	211	...180	P					
3 Ba St	147	...98	P					
4 Gw St	146	...90	P					
5 Shel	207	...342	P					
6 Swan	203	...10	P					
7 L Pic	100	...6	P					
8 Pic C	099	...24	P					
9 Au Gb	061	...5	P					
10 Shov	212	...3	P					
11 Ch TC	210	...1	P					
12 Sac I	179	...4	P					
13 Coot	059	...2	P					
14 W Fhn	188	...1	P					
15 Mar S	159	...1	P					
16 Gank	158	...1	P					
17 Rcap	143	...45	P					
18 Cur S	161	...4	P					
19 Ren S	162	...40	P					
20 uiwr	835	...30	P					

Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

44

Sheet Ref.

21

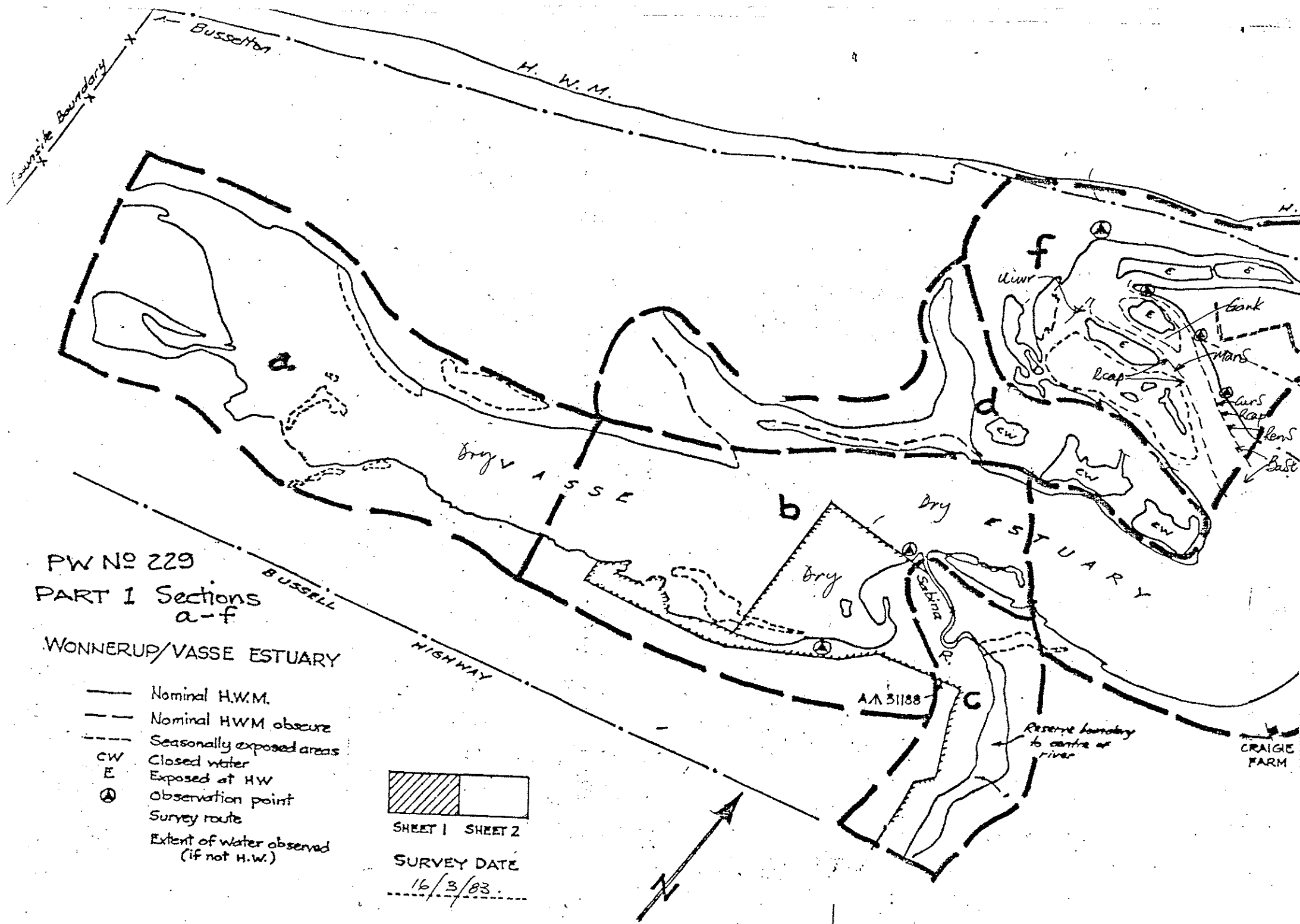
Observer

211

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



PW NO 229
 PART 1 Sections
 a-f
 WONNERUP/VASSE ESTUARY

- Nominal H.W.M.
- - - Nominal HWM obscure
- - - Seasonally exposed areas
- CW Closed water
- E Exposed at HW
- Ⓐ Observation point
- Survey route
- Extent of water observed (if not H.W.)

SHEET 1 SHEET 2
 SURVEY DATE
 16/3/83.

SCALE 1:20,000

RAOU

Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2941472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY

P.W.No. 229 Part No. "e"

Date of Survey 16/03/1983 Start/Finish 14/01/430 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather, hot, humid, semi-cloud
windless.

Water Level - still receding - wide lateral expanses
and.

Observation done from outside this part, no
limited by distance.

SPECIES

English
Name
abbrevi.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit ↓)

T or P
Total
or Partial
Count
↓ HOY

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 2,93

2 A Pel 1,06

3

4 Wdk 8,38

5

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

45

Sheet Ref.

21

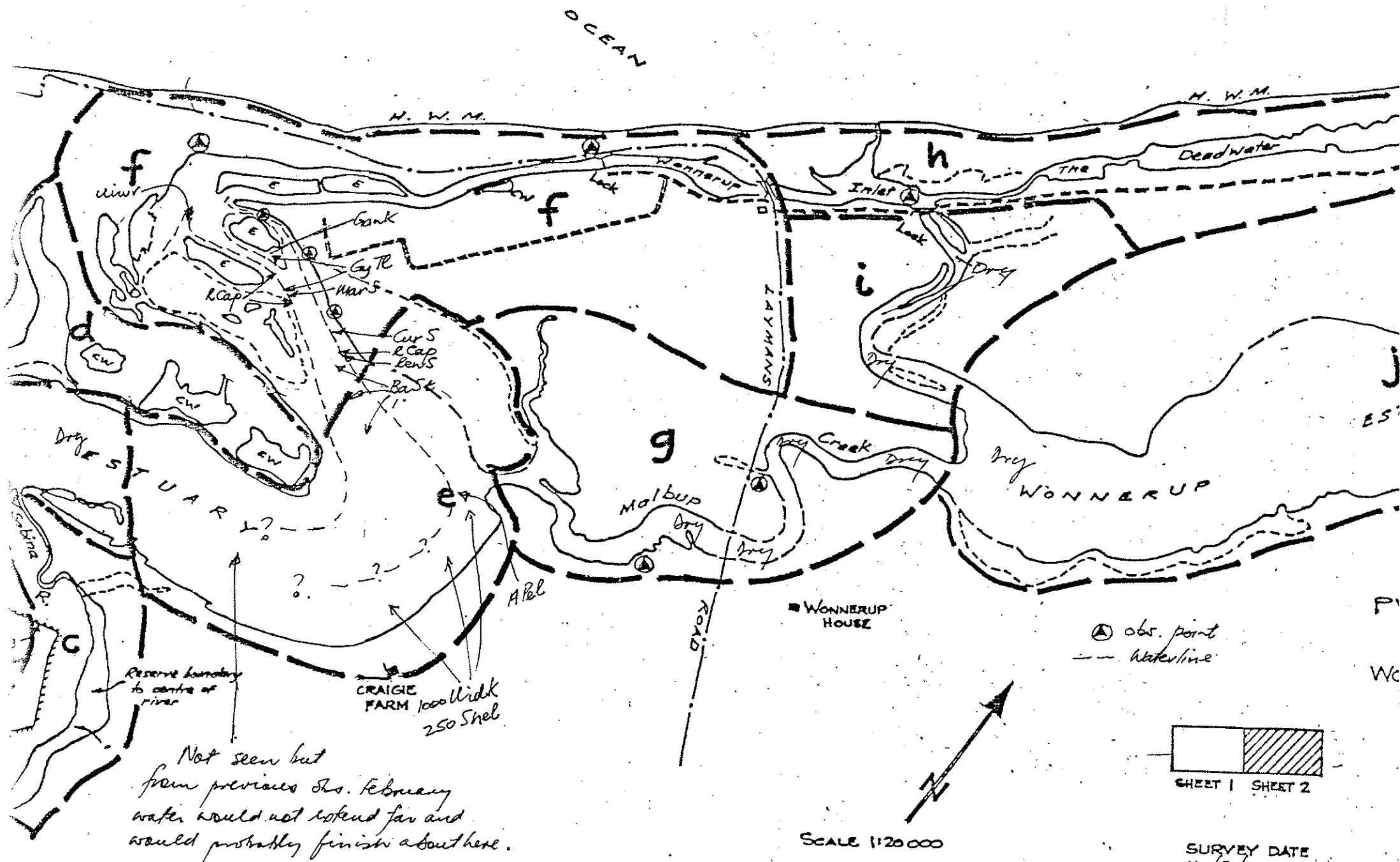
Observer

21

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B K MASTERS phone 097-272474 (H)

Address PO BOX 162 CAPEL

Wetland Nature Reserve name VASSE ESTUARY postcode 6271

P.W.No. 229 Part No. SABINA RIVER

Date of Survey 1.4.05 Start/Finish 19.8.3 Sheet 1 of 1

0.83.50.94.0 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ M
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A
3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. ☒ M
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

There was a small area of open water - see over.

Apart from 3 Shelducks seen on it, all other birds were seen on or over pools in the Sabina River.

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓ HOW	BREEDING: Tick ✓ if these categories were observed...					C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevtn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn		
1 Shel	20.7	5	T							1. approximate positions of any active nests found (SN, e, yn). 2. the route of your survey, 3. any other relevant information.
2 PuSn	0.58	1	T							
3 PaBD	20.8	29	T							
4 LpCC	1.00	1	T							
5										
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OFFICE USE

229 P.W.No.

1 Part

46 Sheet Ref.

27 Observer

 Comb/Spare

RETURN to
69 Lanark St, Coolbinia, WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
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WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVILLE
Wetland Nature Reserve name VASSE/WONNERUP
P.W.No. 229 Part No. f
Date of Survey 16.06.1983 Start/Finish 15.30/16.30 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Cloudy, overcast, 15 kt. westerly wind.
Water level: up to within 1m of edge of littoral vegetation following 50-100mm of rain since last survey 27/5.
Bird Count: Pair displays by Shov & Shel. PaSn in one group, feeding.
GyTL - 80% resting, 20% feeding.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count. ↓ HOV	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Swan	20.3	21	P					
2 Shel	20.7	36	P					
3 PaBd	20.8	44	P					
4 GyTL	21.1	470	P					
5 Shov	21.2	10	P					
6 RuAv	14.8	10	P					
7 PaSn	0.58	10	P					
8 AUGb	0.6.1	80	P					
9 WfHn	1.8.8	2	P					
10 BfoP	1.4.4	2	P					
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Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229
P.W.No.

1
Part

4.7
Sheet Ref.

21
Observer

211
Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
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WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 2941472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE/WONNERUP postcode 6056
P.W.No. 229 Part No. 'e'

Date of Survey Start/Finish Sheet 1 of 1
1.6.06/1.9.83 1.5.45/1.6.1.0 eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Cloudy, overcast, 15kt westerly wind.

Water level: up to within 1m of edge of littoral vegetation following 50-100mm of rain since last survey 27/5.

Swans 60% resting, 40% feeding
other species mainly resting
Boat/Bwst? 200 birds in one group - too far
/RnAv to separate & identify.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Swan	20.3	37.5	P					
2 Wdk	8.38	8.00	P					
3 Rn Av	1.48	40	P					
4 Pie C	0.9.9	38	P					
5 Shcl	20.7	40	P					
6 Wlg	8.2.0	200	P					
7 Wst	8.2.3	200	P					
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Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Use the Wetland Map on the back of this form to mark...

C/V 11

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1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

22.9

P.W.No.

1

Part

4.8

Sheet Ref.

2.1

Observer

211

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

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Ornithologists Union

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Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE/WONNERUP

P.W.No. 229 Part No. 'f'

Date of Survey 25.09.1983 Start/Finish 15.3.01.6.30 Sheet L of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather fine, partial cloud moderate westerly breeze.
water level: very low, wide expanses of exposed mud
majority of birds feeding.

SPECIES

English Name
abbrevn
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

Tor P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Shel 20.7
150 P

2 Swan 20.3
92 P

3 Gytl 21.1
456 P

4 PaBol 20.8
4 P

5 BwSE 14.6
66 P

6 PieC 09.9
16 P

7 Cast 11.2
2 P

8 Gank 15.8
1 P

9 BaSt 14.7
26 P

10 WfHw 18.8
1 P

11 AvGS 06.1
26 P

12 GrTE 18.7
1 P

13 LiBC 09.7
12 P

14 Dart 10.1
1 P

15 MusD 21.7
4 P

16 RnAV 14.8
3 P

17 PuSn 05.8
2 P

18

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Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

49

Sheet Ref.

21

Observer

211

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE postcode 6056

P.W.No. 229 Part No. e

Date of Survey Start/Finish Sheet L of 1

25.05.1983 1.5.4.5.1.6.0.5...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather fine, partial cloud moderate westerly breeze.

Water Level: Very low, wide expanses of exposed mud

Majority of birds resting (70%) remainder feeding.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Shel	20.7	250	P					
2 Swan	20.3	70	P					
3 Grey	21.1	380	P					
4 Sw St	1.4.6	280	P					
5 Pie C	0.9.9	18	P					
6 RCap	1.4.3	40	P					
7 Si Gl	1.2.5	20	P					
8 Ba St	1.4.7	200	P					
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Use the Wetland Map on the back of this form to mark...

C/V

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1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

50

Sheet Ref.

21

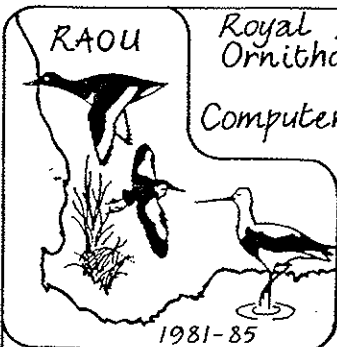
Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

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of Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE / WONNERUP

P.W.No. 229 Part No. "f"

Date of Survey 06.07.1983 Start/Finish 15.30 / 16.30 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Cloudy, windy, cold.

Water level: High - all littoral mud covered - water extends 2-3m into vegetation. Evidence of recent higher levels.

Some pairing of birds, particularly Shel, PaBd & Swan but no evidence of nesting activity seen.

Also Seen: White Fronted Chat (4) in samphire Whistling Kite (1) overhead.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 KtyTL	211	... 64	P					
2 Swan	203	... 14	T					
3 Coot	059	... 4	P					
4 PaBd	208	... 348	P					
5 MusD	217	... 4	P					
6 Augb	061	... 20	P					
7 Shel	207	... 4	P					
8 SacI	179	... 8	T					
9 PieC	099	... 12	P					
10 LiBC	097	... 24	P					
11 LPiC	100	... 23	P					
12 Wfth	188	... 5	P					
13 PaSn	058	... 1	P					
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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

51

Sheet Ref.

21

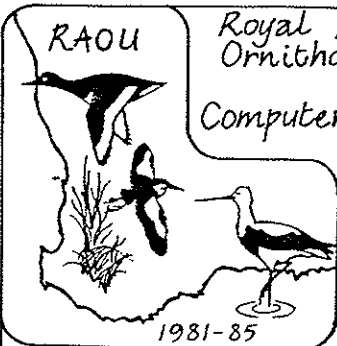
Observer

21

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone
Address 72 VIVEASH RD SWANVILLE

Wetland Nature Reserve name VASSE / Wimmerup postcode 6056
P.W.No. 229 Part No. (e)

Date of Survey 06/07/1983 Start/Finish 1545/1600 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather: Cloudy, Windy, Cold.
Water levels: High

Distance a problem with identification
of wdk but probably GyTL & PaBd.
Some birds spread out on water but
about 50% mabbed.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOY	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevtn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Swan	203	..60	P					
2 Wdk	838	..300	P					
3 Coot	059	..12	P					
4								
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Use the
Wetland Map on
the back of
this form
to mark...

C/V
11

1. approximate
positions of
any active
nests found
(SN, e, yn).
2. the route
of your
survey,
3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

52

Sheet Ref.

21

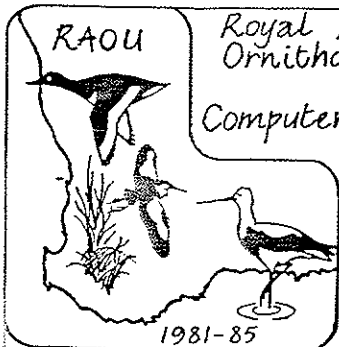
Observer

21

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer C. MASTERS phone 272474
Address P.O. BOX 162 CAPEL W.A.

Wetland Nature Reserve name VASSE EST - SABINA R. postcode 6271

P.W.No. 227 Part No. 1

Date of Survey 14.07.1983 Start/Finish 0900/1500 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

WEATHER OVERCAST, NO WIND

8 PaBD SEEN ON SABINA RIVER
(INCLUDED IN TOTAL)

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn
1 Swan	2,0,3	3	T				
2 PaBD	2,0,8	3	T				
3 LPiC	1,0,0	2	T				
4 GyTC	2,1,1	4	T				
5 WFFHn	1,8,8	1	T				
6 MusD	2,1,7	2	T				
7 Coot	0,5,9	2	T				
8 Hard	2,1,5	9	T				
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

53

Sheet Ref.

27

Observer

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

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Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEE phone 294 1472
Address 72 VIVEASH RD SWANVILLE

Wetland Nature Reserve name VASSE / WONNERUP postcode 6056
P.W. No. 229 Part No. "e"

Date of Survey 09.08.1983 Start/Finish 1.5.50 / 1.6.1.0 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather: Windy, cloudy, cold.

Water Level: Nominal H.W.M.

Brief, recce survey only, taken from edge of section. Too far for accurate ident. of uick but from precedence probably Pa Bd + Gy TL.

Li BC engaged in display (in unison) of communal bathing, all 12. Pre-breeding behaviour?

SPECIES

English Name
abbrevtn
(4 letters)

RAOU Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
HOV

BREEDING:
Tick ✓ if these
categories were
observed...

1 Pe C 0.9.9

2 Swan 2.0.3

3 Li BC 0.9.7

4 Pa Bd 2.0.8

5 Gy TL 2.1.1

6 A Pel 1.0.6

7 Uick 8.3.8

8

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16

17

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19

20

6 P

20 P

12 P

4 P

3 P

2 P

300 P

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

54

Sheet Ref.

21

Observer

21

Comb/Spare

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Ornithologists Union

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WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW
Wetland Nature Reserve name VASSE / WANNERPUP
P.W. No. 229 Part No. "f"
Date of Survey 0.9.08 Start/Finish 1.5.4.0 Sheet 1 of 1
1.9.8.3 1.6.3.0 ...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather: Windy, cloudy, cold.
Water Level: Receded from flood condition
To nominal H.W.M.
Swan: 5 Nests observed inc. 3 with sitting
birds (increase of 2 in last month).
No other breeding observed but Shov, Shel &
several Pa Bd and Gy TL paired off.
Sac I in loose group, feeding.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				C/V	Use the Wetland Map on the back of this form to mark...	
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e			yn
1 Sac I	1.7.9	...	1.2 P						1/1	1. approximate positions of any active nests found (SN, e, yn). 2. the route of your survey. 3. any other relevant information.
2 Shov	2.1.2	...	6 P						1/1	
3 Pa Bd	2.0.8	...	2.3 P						1/1	
4 Swan	2.0.3	...	1.1 P						1/1	
5 Gy TL	2.1.1	...	1.4 P						1/1	
6 Wfth	1.8.8	...	3 P						1/1	
7 Shel	2.0.7	...	2 P						1/1	
8 Mus D	2.1.7	...	4 P						1/1	
9 Hh GB	0.6.2	...	5 P						1/1	
10 AUGB	0.6.1	...	4 P						1/1	
11 Ma/Ha	2.1.9	...	1 P						1/1	
12 Pu Sw	0.5.8	...	2 P						1/1	
13 L P C	1.0.0	...	8 P						1/1	
14 Li BC	0.9.7	...	1 P						1/1	
15 Dart	1.0.1	...	1 P						1/1	
16		...							1/1	
17		...							1/1	
18		...							1/1	
19		...							1/1	
20		...							1/1	

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

OFFICE USE

229
P.W. No.

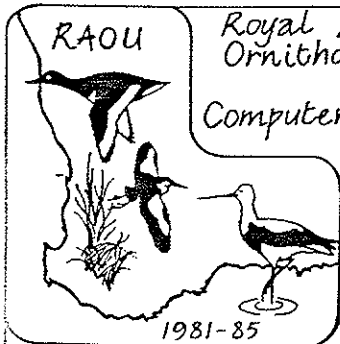
1
Part

55
Sheet Ref.

21
Observer

21
Comb / Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.



Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE / WILMAREUP. postcode 6056

P.W.No. 229 Part No. 1

Date of Survey 3.0.88 Start/Finish 1.5.45 / 1.6.00 Sheet 1 of 1

3.0.88 1.5.45 / 1.6.00 reg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W

2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N

3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X

4. Used a telescope (T)? If not, put an X. X

5. Used a boat (B)? If not, put an X. X

Comments: weather: Very windy, cloudy, drizzly, water very choppy.

Water Levels: Very high - ~~for~~ higher than nominal HWY but not flood levels as per 26/7/83.

Bird Count: Foul conditions appeared to have put most birds in cover.

SPECIES	
English Name abbrevn (4 letters)	RAOU Atlas No.

1 Swan 2.0.3

2 Pre C. 0.9.9

3

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Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOV
---	--------------------------------------

1.1.0 P

1.4 P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

C/V 11

11

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

56

Sheet Ref.

21

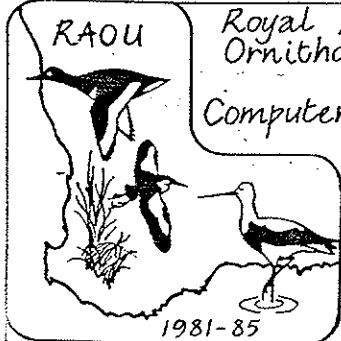
Observer

21

Comb. Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE / WONNERUP postcode 6056

P.W.No. 229 Part No. F

Date of Survey 3.0.83 Start/Finish 1.53.0 / 1.63.0 Sheet 1 of 1

3.0.83 1.53.0 1.63.0...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather: Very windy, cloudy & drizzly.

Water Levels: Very high but not as high as flood level of 26/7/83.
Extensive flooding in adjacent paddocks & lower areas.

Bird Counts: Swans (5) still sitting on (5) nests as per survey of 9/8/83 with attendant partners in close vicinity. Other duck sp. - Pa Bd & Shov. paired.
Coot still mobbed & sheltering from winds.

SPECIES	
English Name abbrevn (4 letters)	RAOU Atlas No.

1 Swan 20.3

2 Pa Bd 20.8

3 Shov 21.2

4 Gre C 09.6

5 L Pic 10.0

6 Com S 15.7

7 Coot 05.9

8

9

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17

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20

Total number of birds recorded (last digit)	T or P: Total or Partial Count
---	--------------------------------

... 1.1 P

... 4 P

... 7 P

... 1.2 P

... 1 P

... 1 P

... 20.0 P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

... ✓

Use the Wetland Map on the back of this form to mark...

C/V

III

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II

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

57

Sheet Ref.

21

Observer

21

Comb/Spare

RETURN to

69 Lanark

St., Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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South-West & Eucla Divisions.

1981-85

Observer BK&CT MASTERS phone 097 272002
Address PO BOX 162 CAPEL postcode 6277

Wetland Nature Reserve name VASSE ESTUARY
P.W.No. 229 Part No. 1

Date of Survey 1.8.09 Start/Finish 1.9.8.3 Sheet 1 of 1
0.9.2011.3.0 eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ M
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Only 2 Tiger Snakes!

On Sabina River & included above were:-

PaBD 26 including 6 young

GyTl 6

Dart 1

Flying overhead were:-

APel 1

SocT 4

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓ HOV	BREEDING: Tick ✓ if these categories were observed...				C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e		
1 SocT	1.7.9	...4	T						1. approximate positions of any active nests found (SN, e, yn).
2 Swan	2.0.3	...1.5.3	T		✓				2. the route of your survey,
3 PaBD	2.0.8	...3.1	P		✓				3. any other relevant information.
4 WFTn	1.8.3	...9	P						
5 Shev	2.1.2	...5	T						
6 Shel	2.0.7	...1.7	T		✓				
7 GyTl	2.1.1	...9	P						
8 BuSt	1.4.6	...7	T						
9 Dart	1.0.1	...1	P						
10 APel	1.0.6	...1	T						
11									
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20									

OFFICE USE

22.9

P.W.No.

1

Part

58

Sheet Ref.

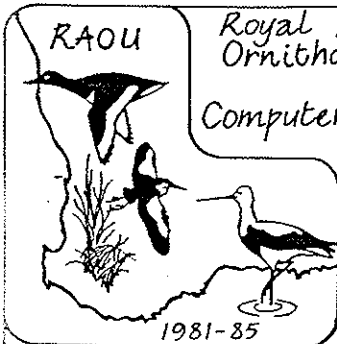
2.7

Observer

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. Kneebone phone 2941472
Address 72 Viveash Rd Swanview
Wetland Nature Reserve name WONNERUP/VASSE
P.W.No. 229 Part No. 'i'

Date of Survey 14/01/83 Start/Finish 16.30/16.45 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Fine, 20°C, 10kt Sw. wind.
Water Level: High, receding slowly - small areas of mud becoming exposed as water habitat.

Com S - Perched on rock at water level, then on bridge beam. Ident. from 10m distance

Gank - Feeding on mud shoreline

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1 Com S 15.7

2 Gank 15.8

3 Shel 20.7

4 Pa Bd 20.8

5 Grt E 18.7

6 Sac I 17.9

7 Dart 10.1

8 Pic C 09.9

9 Swan 20.3

10

11

12

13

14

15

16

17

18

19

20

Total number of birds recorded (last digit) ↓

1 P

1 P

15 P

2 P

1 P

15 P

2 P

1 P

2 P

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

✓

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

59
Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
69 Lanark
St. Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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WATERBIRD USAGE

Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. Kneebone phone 2941472
Address 72 VIVEASH Rd Swanview
Wetland Nature Reserve name WONNERUP/VASSE
P.W. No. 229 Part No. 'e'

Date of Survey 1.4.10 Start/Finish 1.5.50 Sheet 1 of 1
1.9.83 1.6.0.5...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Weather: Fine, 20°C, Wind 10kt. S.W.

Water Level: High, no evidence of more than gradual recession.

SPECIES

English Name
abbrevtn
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
HOV

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 203

22 P

✓

2 Coot 059

10 P

3 Pie C 099

8 P

4

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

60

Sheet Ref.

21

Observer

21

Comb./Spare

21

RETURN to

69 Lanark

St. Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 94 1472

Address 72 VIVEASH RD SWANVIEW

postcode 6056

Wetland Nature Reserve name WONNERUP / VASSE

P.W.No. 229 Part No. f

Date of Survey Start/Finish Sheet 1 of 1

14/01/983 1530/1625...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? -W
2. Put an "A" if you are confident that you found all species present (otherwise put N). -N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. -L
4. Used a telescope (T)? If not, put an X. -X
5. Used a boat (B)? If not, put an X. -X

Comments: Weather: Fine, 20°C, 10kt. SW breeze

Water Level: High, no evidence of more than very gradual recession.

Breeding: Swan - Nos. include 50% young birds aged between 6-12 wks

Also 1x Clutch of 4 aged ~4 wks.

Gytl - Clutch of 2 at ~6 wks

Pa Bd - Nos. inc. 20 flappers in one group

Clutch of 6 at 4 wks.

" " 7 " ~6 wks.

Shel - Nos. inc. 23 immature in one group

Note absence of Coot (200 at 30/8)

SPECIES	
English Name abbrevtn (4 letters)	RAOU Atlas No.

1 Swan 203

2 Gytl 211

3 Pa Bd 208

4 SacI 179

5 Shel 207

6 Pic 099

7 Shov 212

8 Mus D 217

9 L Pic 100

10 WfHw 188

11 Hard 215

12 Augb 061

13 Li BC 097

14 Gre C 096

15

16

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Total number of birds recorded (last digit)	T or P: Total or Partial Count.
---	---------------------------------

... 32 P

... 15 P

... 42 P

... 3 P

... 34 P

... 1 P

... 7 P

... 2 P

... 6 P

... 5 P

... 4 P

... 1 P

... 1 P

... 1 P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

✓

✓

✓

✓

Use the Wetland Map on the back of this form to mark...

C/V

11

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1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

61

Sheet Ref.

21

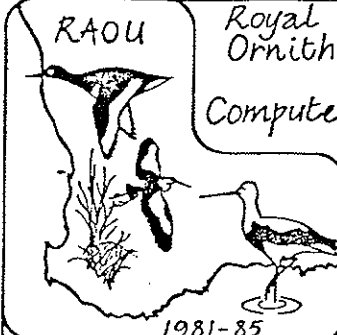
Observer

21

Comb/Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone _____
Address 72 VIVEASH RD SWANVIEW.
Wetland Nature Reserve name K/OWNERUP/VASSE postcode _____
P.W.No. 229 Part No. "C"

Date of Survey 0.9.1.1.9.8.3 Start/Finish 1.6.5.5.1.7.1.0 Sheet 1 of 1
...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Fine, warm, 10kt SW breeze.
Water level: Still high but increasing area of littoral mud zones i.e. noticeably lower than at 14/10/83.
Bird Count: Most birds feeding as area becoming more attractive.
PaBd include 1 clutch of 6 @ ~2 wks
GyTL " " " 6 @ ~1 wk.
diwr Ident. difficult looking into sun but by size, shape, movement in feeding over mud/sand bar probably Gullerell sp. (Actually in Sec. 1)

SPECIES		Total num. of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrev'n. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Gre C	0.9.6	...	6 P					
2 Grt E	1.8.7	...	3 P					
3 Wf Hn	1.8.8	...	2 P					
4 Bwst	1.7.6	...	3.4 P					
5 Si Gl	1.2.5	...	2 P					
6 Pa Bd	2.0.8	...	8 P		✓			✗
7 Gy TL	2.1.1	...	5.2 P		✓			✗
8 Shel	2.0.7	...	5.5 P					
9 Swan	2.0.3	...	2 P					
10 L Pi C	1.0.0	...	2 P					
11 Li Wr	8.3.5	...	5.0 P					
12								
13								
14								
15								
16								
17								
18								
19								
20								

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Use the Wetland Map on the back of this form to mark.

1. approximate positions of any active nests found (SN, e, yn)
2. the route of your survey,
3. any other relevant information

OFFICE USE

2.2.9
P.W.No.
Part
6.2
Sheet Ref
2
Observer
21
Comb/Spare

RETURN
69 Lanark
St., Coolberrin
WA, 6050.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer B. K. Kneebone phone _____Address 72 Viveash Rd SwanviewWetland Nature Reserve name WONNERUP / VASSE postcode _____P.W.No. 229 Part No. 9Date of Survey 0.9.11 Start/Finish 1.5.25 Sheet 1 of 11.9.83 1.5.40...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Fine, Warm, light SW breezeWater Level: Still High but some recession noticeable - just below nominal HWM
Adjacent pools, ponds in paddocks are now dry. Much aquatic plant growth.Bird Count: Limited survey only, probable that many more birds present in western portion of Vasse Creek (from previous experience).SPECIES
English Name
abbrevn.
(4 letters)RAOU
Atlas
No.Total
number
of birds
recorded
(last digit)T or P:
Total
or
Partial
Count
↓ H orBREEDING:
Tick ✓ if these
categories were
observed...
dd DR SN e ynUse the
Wetland Map on
the back of
this form
to mark...

C/V

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐1. approximate
positions of
any active
nests found
(SN, e, yn).2. the route
of your
survey.3. any other
relevant
information

OFFICE USE

2.29

P.W.No.

1

Part

6.3

Sheet Ref.

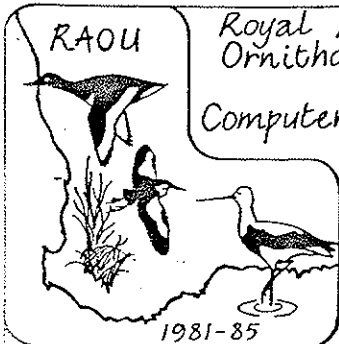
2.1

Observer

2.1

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW
Wetland Nature Reserve name WONRIVERUP / VASSE
P.W. No. 229 Part No. 'e'

Date of Survey 09/1/1983 Start/Finish 16.10/16.30 Sheet 1 of 1
eg 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Fine, Warm, 10 kt. SW breeze
Water Level: Still at nominal H.W.M. Negligible water recession on main water body.

Bird Count: Probable that full count would show many more birds as survey location limited in scanning full area distance a problem - hence under, but probably GyTL + Shel + Pa Bd.

Sea Eagle: Single bird observed flying high over section parallel to edge of Murt forest

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HO	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Swan	20.3	...44	P					✓
2 Coot	0.59	...1.2	P					
3 Pie C	0.9.9	...1.0	P					
4 Grt E	1.8.7	...2	P					
5 Shel	20.7	...1.8	P					
6 Wldk	8.3.8	...8.0	P					
7 WbSE	2.2.6	...1	P					
8								
9								
10								
11								
12								
13								
14								
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20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

6.4

Sheet Ref.

2.1

Observer

21

Comb. Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 794 1472
Address 72 VIVEASH RD SWANVIEW.

Wetland Nature Reserve name WONNERUP / VASSE postcode _____
P.W. No. 229 Part No. "f"

Date of Survey 09/1/1983 Start/Finish 1.54.51.6.5.0 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather: Fine, warm, 10kt SW breeze.
Water level: Still at nominal H.W.M. only recognisable recession in dried up small adjacent ponds. Increasing quantity of plant aquatics.

Bird Count. Noticeable increase in species count and population. Shel & HhGB comprised ~ 60% immature (fully feathered). Swan include 5 broods aged between ~ 1 to 8 wks, MusD brood of 2 (6 wks.) HhGB in ³ large groups.

SPECIES
English Name
abbrevn.
(4 letters)

RAOU Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
✓ HOW

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 20.3

58 P

✓

2 Gyl 21.1

14 P

3 Shel 20.7

40 P

4 MusD 21.7

14 P

✓

5 LaBd 20.8

24 P

✓

6 WfHn 1.8.8

3 P

7 Coot 0.5.9

8 P

8 Grt E 1.8.7

3 P

9 Pic 0.9.9

1 P

10 MarHa 2.1.9

1 P

11 SacI 1.7.9

42 P

12 PuSn 0.5.8

1 P

13 Hard 2.1.5

5 P

14 LPic 1.0.0

1 P

15 HhGB 0.6.2

110 P

16 Part 1.0.1

1 P

17 Gank 1.5.8

1 P ✓

18 CurS 1.6.1

1 P

19 GreC 0.9.6

3 P

20

Use the
Wetland Map on
the back of
this form
to mark...

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1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

65

Sheet Ref.

21

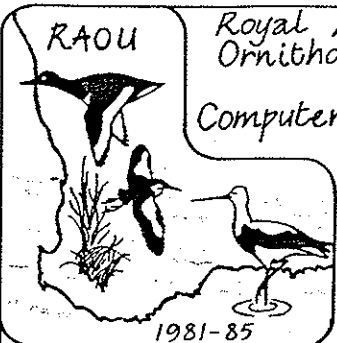
Observer

21

Comb. Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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WATERBIRD USAGE

of
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Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2941472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE postcode 6056
P.W.No. 229 Part No. e

Date of Survey Start/Finish Sheet 1 of 1
29/1/1983 16.00/16.30 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Fine, windy, 20 knt
centerly, open water v. choppy.
Visibility impaired.

Water level: At nominal HWM.

Suk I — Single flock, not actively feeding.
Udk — Ident. not possible but probably
Shel, Gy TL, Pa Bd.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOY	BREEDING: Tick ✓ if these categories were observed... dd DR SN e yn			
English Name abbrevn (4 letters)	RAOU Atlas No						
1 Pie C	09.9	...12 P					
2 Suk I	18.0	...70 P					
3 Swan	20.3	...220 P					
4 Udk	8.3.8	...30.0 P					
5 Si GL	12.5	...10 P					
6 Sac I	17.9	...2 P					
7 Kif Hn	18.8	...6 P					
8							
9							
10							
11							
12							
13							
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Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

22.9
P.W.No.
1
Part
6.6
Sheet Ref.
21
Observer
Comb/Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

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Wetland Nature Reserves

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Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VINEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE

P.W. No. 229 Part No. e

Date of Survey 27/12/1983 Start/Finish 16.15/18.00 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ B

Comments: Weather: 25°C cloudy, 15 km/h Southerly wind.

Water Level: Receding but no substantial areas of exposed shoreline mud for wader habitat yet. Depth varied 25-50 cm.

Aquatic plant growth prolific - at least 4 spp. present. Some exposure of green islands.

Bird Count: Swan dominant, 1 recent nest obs.

First Fine survey by canoe and first full coverage by B.K.K. Numbers on this count may perhaps allow indication of total numbers when only partial survey possible at similar times.

Impressed by varied habitat and relatively undisturbed condition of the more inaccessible habitat.

SPECIES

English Name abbrevn (4 letters) RAOU Atlas No.

1 Swan 2,0,3

2 Pa Bd 2,0,8

3 Shel 2,0,7

4 Gy TL 2,1,1

5 Pe C 0,9,9

6 L Pe C 1,0,0

7 Grt E 1,8,7

8 Wf Hn 1,8,8

9 A Bl 1,0,6

10 Si Gl 1,2,5

11 Bw St 1,4,6

12 Mus D 2,1,7

13 Sac I 1,7,9

14 Man D 2,0,2

15 Grank 1,5,8

16 Sns I 1,8,0

17 YS SL 1,8,2

18 Liwr 8,3,5

19

20

Total number of birds recorded (last digit)

Tor P: Total or Partial Count

BREEDING: Tick ✓ if these categories were observed...

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

2,2,9

P.W. No.

1

Part

6,7

Sheet Ref.

2,1

Observer

21

Comb/Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

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WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD JESANVIEW

Wetland Nature Reserve name WONNERUP / VASSE

P.W. No. 229 Part No. f

Date of Survey 26/2/98 Start/Finish 1.7.3.0/1.8.5.0 Sheet 1 of 2

postcode 6056

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Weather: 3°C, semi-cloud, light winds

Water Level: Receding noticeably exposing small islands in lagoon area.

Aquatic plant growth prominent and profuse. over 75% of birds ^(dabbling ducks) actively feeding (upending) indicating depth not generally more than 45cm.

Breeding: Hard - Clutch of 6 age 1-2 wks.

Bird Count: Significant increase in numbers since last survey 29/11 particularly A Pel, Shel, Pa Bd, Gry TC, Coot, Mus D - would appear to correspond with shallower water, increase in food supply and reduction of available water elsewhere.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 AUGS	0.6.1	4	P					
2 Gry TC	2.1.1	3	P	✓				
3 Pa Bd	2.0.8	3	P					
4 Shel	2.0.7	3	P					
5 A Pel	1.0.6	9	P					
6 Hn GB	0.6.2	2	P					
7 Coot	0.5.9	1	P					
8 Sac I	1.7.9	6	P					
9 Hard	2.1.5	1	P	✓				
10 Swan	2.0.3	1	P					
11 Wf Hn	1.8.8	2	P					
12 L Pic	1.0.0	1	P					
13 Si GL	1.2.5	3	P					
14 Gt E	1.8.7	1	P					
15 Bw St	1.4.6	2	P					
16 Mus D	2.1.7	8	P					
17 Dart	1.0.1	1	P					
18 RN Hn	1.9.2	3	P					
19 Pu Sw	0.5.8	1	P					
20 Pie C	0.9.9	4	P					

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey.

3. any other relevant information.

OFFICE USE

229

P.W. No. 1

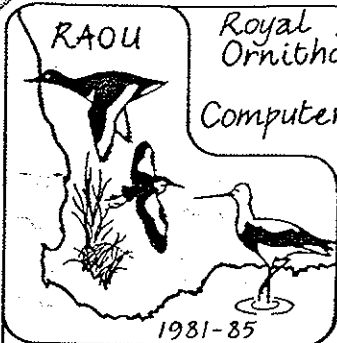
Part 6.8

Sheet Ref. 2.1

Observer 1111

Comb. / Spare 1111

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')



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WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions

Observer B. KNEEBONE phone _____

Address _____ postcode _____

Wetland Nature Reserve name KONNERUP/VASSE

P.W.No. 229 Part No. 1

Date of Survey Start/Finish Sheet 2 of 2

26/12/1983 17.30/18.50 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Survey on this section would represent 80-90% of coverage of area.

* A Pel - One tagged bird obs. at location marked on map.
Tagged numbers faded but taken as E or I 7 - black nos. on yellow cloth type wing tag.

SPECIES		Total number of birds recorded (last digit)	T or P. Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn	
1 LBCO	0.9.7	1	A	P				
2								
3								
4								
5								
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14								
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19								
20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

6.9

Sheet Ref.

2.1

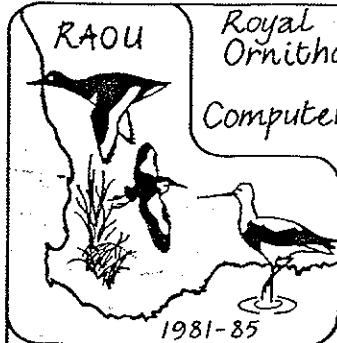
Observer

1/1

Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 2941472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP / VASSE postcode 6056

P.W.No. 229 Part No. 'g'

Date of Survey Start/Finish Sheet 1 of 1

28/12/1983 10.30/11.15...eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? -W
2. Put an "A" if you are confident that you found all species present (otherwise put N). -N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. -L
4. Used a telescope (T)? If not, put an X. -X
5. Used a boat (B)? If not, put an X. -X

Comments: Weather: 27°C humid, cloudy
v. little wind.

Water Level: Receding from HWM with some
Sft mud areas on periphery.
Average depth ~ 30cm.

Breeding: GyTL clutch of 6, age ~ 3wks.

SPECIES	
English Name abbrevn (4 letters)	RAOU Atlas No.

1 Shel	20.7
2 PaBd	20.8
3 GyTL	21.1
4 L PUC	10.0
5 LBCo	09.7
6 WFLW	18.8
7 Coot	05.9
8 GrtE	18.7
9 Swan	20.3
10 HnGB	06.2
11 Shov	21.2
12 Hard	21.5
13 SacI	17.9
14 AUGB	06.1
15	
16	
17	
18	
19	
20	

Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count. ↓ HO
---	--------------------------------------

1.3.4 P	
1.5.8 P	
4.7.5 P	
2.5 P	
3.8 P	
1.0 P	
1.2.8 P	
2 P	
5.0 P	
4.4 P	
6 P	
1.2.0 P	
1 P	
3.8 P	

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

	✓			✗

Use the Wetland Map on the back of this form to mark...

C/V

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1/1

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1/1

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

70
Sheet Ref.

21

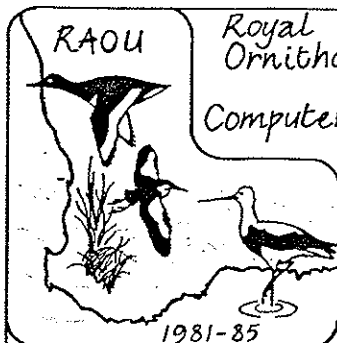
Observer

1

Comb/Spare

RETURN to the Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP/VASSE postcode

P.W.No. 229 Part No. 'W'

Date of Survey 2.7.12 Start/Finish 1.1.0.0 / 1.1.3.0 Sheet 1 of 1

2.7.12.19.83 1.1.0.0 / 1.1.3.0 ...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ M
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather: 25°C, cloudy, NW wind at 12-15 km/hr.

Water Level: Tidal influence as estuary bar to ocean open-channel ~ 25m wide, ~ 1m deep.

Absence of waders in numbers as tide relatively high and only small areas water habitat exposed.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count. ↓ HOV	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevtn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Cast	1,1,2	...	8 P					
2 CreT	1,1,5	...	20 P					
3 SiGL	1,2,5	...	60 P					
4 Rcaf	1,4,3	...	6 P					
5 Pie C	0,9,9	...	3 P					
6 Gank	1,5,8	...	1 P					
7 CouS	1,5,7	...	1 P					
8 LBCo	0,9,7	...	2 P					
9		...						
10		...						
11		...						
12		...						
13		...						
14		...						
15		...						
16		...						
17		...						
18		...						
19		...						
20		...						

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

7.1

Sheet Ref.

21

Observer

21

Comb/Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
Computer Form for use in the Survey of
WATERBIRD USAGE
of Wetland Nature Reserves
vested in the Western Australian Wildlife
Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B.K. KNEEBONE phone 2941472
Address 72 VIVEASH RD SWANVIEW
Wetland Nature Reserve name WONNERUP / VASSE postcode 6056
P.W.No. 229 Part No. 1
Date of Survey Start/Finish Sheet 1 of 1
27/12/1983 09.30/10.30 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather: 25°C, cloudy, NW wind at 15-20 km/h.
Water Level: Receding, generally ~30-45cm but deeper at locks. Level on ocean side of locks ~0.5m deeper.
Increasing water habitat areas as islands and shoreline.
Breeding: GytL clutch of 6, ~4wks
" " 5 ~1wk.
diar - Small, Bittern or Sandpiper sp.
osprey - Immature bird with brown blotches on chest - perched on powerline, obs. from 30m away. No sign of adult bird or nest in nearby trees.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn
1 APl	1.0.6	...62	T				
2 WfHn	1.8.8	...8	T				
3 GtE	1.8.7	...15	T				
4 GytL	2.1.1	...35	P	✓			X
5 Liwr	8.3.5	...4	P				
6 Gank	1.5.8	...2	P				
7 LBCo	0.9.7	...24	T				
8 LPiC	1.0.0	...27	T				
9 ComS	1.5.7	...3	P				
10 PieC	0.9.9	...12	T				
11 PaBd	2.0.8	...10	P				
12 BwSt	1.4.6	...4	P				
13 Dart	1.0.1	...2	T				
14 SacI	1.7.9	...1	T				
15 SiGl	1.2.5	...4	T				
16 SakI	1.8.0	...12	T				
17 Ospy	2.4.1	...1	T				
18							
19							
20							

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

72

Sheet Ref.

21

Observer

21

Comb/Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
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of Wetland Nature Reserves
vested in the Western Australian Wildlife
Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer BK & CT MASTERS phone 097-272002
Address PO BOX 162 CAPEL

Wetland Nature Reserve name VASSE ESTUARY postcode 6271
P.W. No. 229 Part No. 1

Date of Survey 0.8.0.1.1.9.8.4 Start/Finish 1.8.3.0.2.0.0.0 Sheet 1 of 2
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

Also unidentified Crane - at least 1 be seen one

Outside the reserve boundaries there were another 8-10,000 birds, including over 5000 ducks, 1-2000 sandpiper-sized birds, plus Swan, BW Stilt, Silver Gulls & WF Heron - see Over

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrev'd (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn
1 GtE	1.8.7	1	T				
2 WfHn	1.8.8	1	P				
3 PaBD	2.0.8	7	P	✓			
4 Shel	2.0.7	7	P				
5 SGL	1.2.5	6	P				
6 SbkI	1.8.0	3	T				
7 RcaP	1.4.3	1	P				
8 APel	1.0.6	8	T				
9 BwSt	1.4.6	3	P				
10 RenS	1.6.2	4	P				
11 Swan	2.0.3	8	P				
12 CasT	1.1.2	1	T				
13 Malta	2.1.9	1	T				
14 GyTL	2.1.1	9	P	✓			
15 Ufwr	8.3.5	2	P				
16 Shov	2.1.2	3	P				
17 LPiC	1.0.0	4	P				
18 RNhn	1.9.2	2	P				
19 LiBC	0.9.7	1	P				
20 Dart	1.0.1	1	P				

Use the Wetland Map on the back of this form to mark...

C/V

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1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

7.3

Sheet Ref.

27

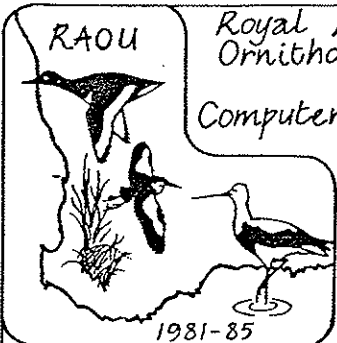
Observer

111

Comb/Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer MASTERS B&C phone _____
Address _____

Wetland Nature Reserve name Vasse postcode _____
P.W.No. 229 Part No. 1 : Reserve area

Date of Survey 0.8.0.1.1984 Start/Finish 1.8.3.0.2.0.0.0 Sheet 2 of 2

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

"unidentified crane" see sheet 1/2.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 <u>uicra</u>	<u>8,22</u>	<u>1</u>	<u>P</u>					
2								
3								
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Use the Wetland Map on the back of this form to mark...

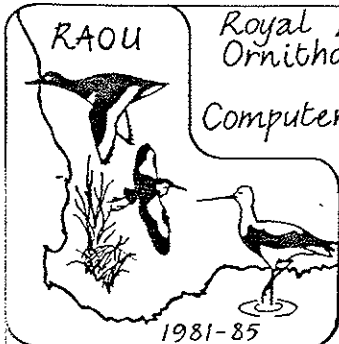
1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229
P.W.No.
1
Part
74
Sheet Ref.
27
Observer
111
Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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of
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vested in the
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Authority & situated in the
South-West & Eucla Divisions.

Observer BK & CT MASTERS phone 097 272002

Address PO BOX 162 CAPEL postcode 6271

Wetland Nature Reserve name VASSE ESTUARY - SABINA R. RES.

P.W. No. 229 Part No. 1 bxc

Date of Survey 1.2.11 Start/Finish 1.9.8.3 Sheet 1 of 1
1.3.5.5 16.0.0...eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: 3 Tiger Shakes only.

One WfHn 188 very brown colouration on breast - breeding plumage?

GrtE 187 - a group of 6 were "playing" - diving & other unusual behaviour - mate selection?

The 180 Whi T 110 were present as a single flock which moved low over the water throughout the reserve & adjoining open water sections of the Vasse estuary.

All young ducklings were seen on or near the mouth of the

Sabina River, as were most of the L PiC 100. No nests of

SPECIES		Total number of birds recorded (last digit v)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Sh+S	1,6,3	...35	T					
2 APel	1,0,6	...4	T					
3 GrtE	1,8,7	...8	T					
4 WfHn	1,8,8	...8	P					
5 BwSt	1,4,6	...1,0,4	T					
6 Shel	2,0,7	...25	T					
7 PaBD	2,0,8	...46	P	✓				
8 SacI	1,7,9	...21	P					
9 SiGL	1,2,5	...4	T					
10 Shov	2,1,2	...4	T					
11 SnkI	1,8,0	...3,1	T					
12 GyTI	2,1,1	...25	T	✓				
13 LCBC	0,9,7	...2	P					
14 LPiC	1,0,0	...15	P					
15 Swan	2,0,3	...44	T	✓				
16 Whi T	1,1,0	...1,8,0	T					
17								
18 PieC	0,9,9	...11	P					
19								
20								

Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

2,2,9

P.W. No.

1

Part

75

Sheet Ref.

2,7

Observer

Comb/Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

BwSt 146 were seen, although nesting area of last year was checked.

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Authority & situated in the
South-West & Eucla Divisions.

Observer BK & CT MASTERS phone 097 272 002
Address PO BOX 162 CAPEL

Wetland Nature Reserve name VASSE ESTUARY postcode 6271
P.W. No. 229 Part No. SABINA RIVER RESERVE

Date of Survey 1.1.03 Start/Finish 1.5.45 Sheet 1 of 1
19.8.4 16.35 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface W water but was moist (M), or was dry (D)? ☒ D
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☐ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☐ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Also seen: Sacred Kingfisher 1
White Fronted Chat 3

No surface water except for pools in Sabina River, where all birds except for RGP & White Fronted Chat were seen. Downy runner of RGP was, like adults, seen in low sparse samphire on dry flats of estuary.

SPECIES

English Name abbrevn. (4 letters) RAOU Atlas No.

Total number of birds recorded (last digit ↓) T or P: Total or Partial Count ↓ HO

BREEDING: Tick ✓ if these categories were observed... dd DR SN e yn

1 RGP 1.4.3

...4.2 P

☒ ☐ ☐ ☐ ☐ ☐

2 GTE 1.8.7

...1 T

☐ ☐ ☐ ☐ ☐ ☐

3 WFHn 1.8.8

...4 T

☐ ☐ ☐ ☐ ☐ ☐

4 PUSn 0.5.8

...2 P

☐ ☐ ☐ ☐ ☐ ☐

5 Mand 2.0.2

...4.8 T

☐ ☐ ☐ ☐ ☐ ☐

6 PaBD 2.0.8

...8 T

☐ ☐ ☐ ☐ ☐ ☐

7 Dart 1.0.1

...1 T

☐ ☐ ☐ ☐ ☐ ☐

8 LPIC 1.0.0

...2 P

☐ ☐ ☐ ☐ ☐ ☐

9

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Use the Wetland Map on the back of this form to mark...

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1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

7.5

Sheet Ref.

2.7

Observer

211

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

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Ornithologists Union

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer BK MASTERS phone 097 272 002
Address PO BOX 162 CAPEL 6271

Wetland Nature Reserve name VASSE ESTUARY
P.W.No. 229 Part No. D+C

Date of Survey 08/02/1984 Start/Finish 16.55/18.25 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

Temperature high 30's.

28 Great Egrets seen in trees outside reserve on edge of Wonnerup Inlet

2000-3000 small waders seen outside reserve
- mostly Red Capped Plover but also Red Necked Stint most likely (75% 25% off) PTO

SPECIES

English Name
abbrevia.
(4 letters)

RAOU Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
↓ HO

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Shol 2,07

130 T

2 WFHn 1,8,8

18 T

3 RcaP 1,4,3

35 P

4 lytT 2,1,1

4 T

5 PuSn 0,5,8

3 P

6 LPiC 1,0,0

1 P

7 PaBD 2,0,8

8 P

8 grtE 1,8,7

1 T

9 RNhn 1,9,2

7 P

10

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

7.6

Sheet Ref.

27

Observer

21

Comb/Spare

RETURN to

69 Lanark

St, Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

5 Medium sided sandpipers
seen - Greenshanks?

Grey Teal were young adults -
one few, 3 remainder under
shelter

One Rufous Night Heron was immature

ESTUARY

OPEN WATER
ALL < 20cm DEEP

DAWSON

27.37

Sub
53

Sub
54

Sub
55

LOC
16

Sub
56

Sub
55

C.G.

1453

POOLS

AA 31188
4545

Conservation of Flora & Fauna
46.0109 ha

Species seen on Sabina River (included
in totals overleaf):-

WF Heron 6

Grey Teal 4

Purple Swamphen 3

Little Red Cormorant

location

4554

4

Black Duck 8

Great Egret 1

Rufous Night Heron 7

RARE
POOLS
ONLY

1456

115° 24' 00"

115° 25' 00"

UNCOLOURED

RAOU

Royal Australasian
Ornithologists Union

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WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANSEA

Wetland Nature Reserve name VASSE / WONNERUP postcode 6056
P.W. No. 229 Part No. 1

Date of Survey 11.02.1984 Start/Finish 09.30 / 1.00 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Weather: V. Warm, S to SW winds 15 to 20 kmh.

Water Level: Section mostly dry - see map for (~ 5cm deep) area covered by water - will probably dry out completely within 2 wks.

Bird Count: Predominantly waders, all actively feeding in and around water on damp-wet mud.

Shel - Mainly resting only.

Rcap - active also beyond water on dry estuary bed. Distraction display by single male at site indicated.

Breeding ???
Waders evenly distributed over wet and damp area

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOV	BREEDING: ?? Tick ✓ if these categories were observed...				
English Name abbrevtn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	gn
1 Shel	2,0,7	2,5,0	T			✓		
2 Rcap	1,4,3	7,0,0	T	✓				
3 Wfth	1,8,8	1	T					
4 LPic	1,0,0	1	T					
5 CurS	1,6,1	3,5	T					
6 RenS	1,6,2	5,3,0	T					
7 GyTL	2,1,1	6	T					
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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, gn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

2,29

P.W. No.

1

Part

7,7

Sheet Ref.

2,1

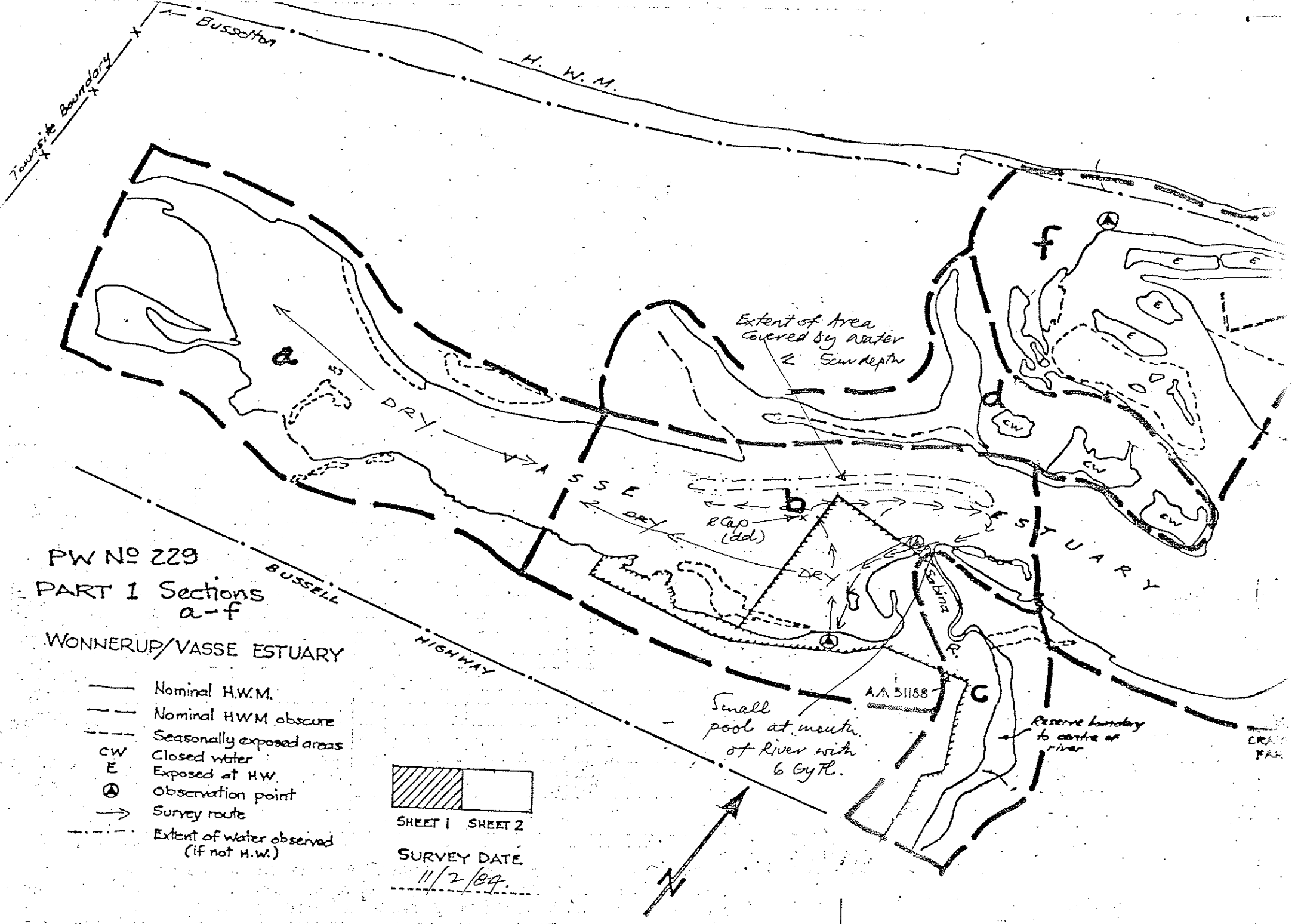
Observer

211

Comb. / Spare

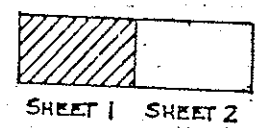
RETURN to
69 Lanark
St., Coolbinia
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



PW NO 229
 PART 1 Sections
 a-f
 WONNERUP/VASSE ESTUARY

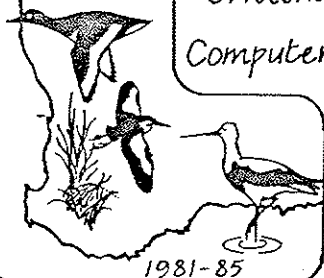
- Nominal H.W.M.
- - - Nominal H.W.M. obscure
- ... Seasonally exposed areas
- CW Closed water
- E Exposed at H.W.
- Ⓐ Observation point
- Survey route
- Extent of water observed (if not H.W.)



SHEET 1 SHEET 2

SURVEY DATE
 11/2/89.

SCALE 1:20,000



Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 7941472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE / WONNERUP postcode 6056
P.W. No. 229 Part No. 'E'

Date of Survey Start/Finish Sheet 1 of 1

1.10.21.9.84 1.3.3.0 144.5...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: weather: V. Warm 35°C . Windy,
15-20 kmh. from S-SW.

water level: Receded markedly since 26/12/83
exposing shoreline 30-40m from HWM.
Water depth ~ 5-10cm.

Bird Count: Waders distributed along eastern and south eastern shoreline - actively feeding, except RNV and BAST which were in tight groups. KWS, SWS & CWS inter-mixed.

RCAP distraction displays by two males
independently ~ 50m apart on dry shoreline
Breeding?? Searches did not reveal nest/eggs.

NOTE: Western 30% of section not surveyed but by previous experience could increase total count by ~20%. Nos. observed only shown.

SPECIES		Total numbe of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓ HOV	BREEDING: ?? Tick ✓ if these categories were observed...
English Name abbrevtn. (4 letters)	RAOU Atlas No.			dd DR SN e yn
1 <u>ABl</u>	<u>1,0,6</u>	<u>,,2,3,0</u>	<u>P</u>	
2 <u>BwSt</u>	<u>1,4,6</u>	<u>,,2,2,1</u>	<u>P</u>	
3 <u>BaSt</u>	<u>1,4,7</u>	<u>,,1,2,5</u>	<u>P</u>	
4 <u>SiGL</u>	<u>1,2,5</u>	<u>,,1,6,5</u>	<u>P</u>	
5 <u>PieC</u>	<u>0,9,9</u>	<u>,,4,0</u>	<u>P</u>	
6 <u>Gank</u>	<u>1,5,8</u>	<u>,,4</u>	<u>P</u>	
7 <u>KenS</u>	<u>1,6,2</u>	<u>,,3,5,0</u>	<u>P</u>	
8 <u>MarS</u>	<u>1,5,9</u>	<u>,,2</u>	<u>P</u>	
9 <u>GyPL</u>	<u>2,1,1</u>	<u>,,2,4,0</u>	<u>P</u>	
10 <u>LaBd</u>	<u>2,0,8</u>	<u>,,6,2</u>	<u>P</u>	
11 <u>CurS</u>	<u>1,6,1</u>	<u>,,3,6,0</u>	<u>P</u>	
12 <u>ShtS</u>	<u>1,6,3</u>	<u>,,5,3,2</u>	<u>P</u>	
13 <u>RnAv</u>	<u>1,4,8</u>	<u>,,1,8,0</u>	<u>P</u>	
14 <u>Shel</u>	<u>2,0,7</u>	<u>,,6,5,0</u>	<u>P</u>	
15 <u>RCap</u>	<u>1,4,3</u>	<u>,,7,5</u>	<u>P</u>	✓
16 <u>Swan</u>	<u>2,0,3</u>	<u>,,1,0,6</u>	<u>P</u>	
17				
18				
19				
20				

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information

OFFICE USE

229

P.W.No.

11

Part

7.8

Sheet Ref.

21

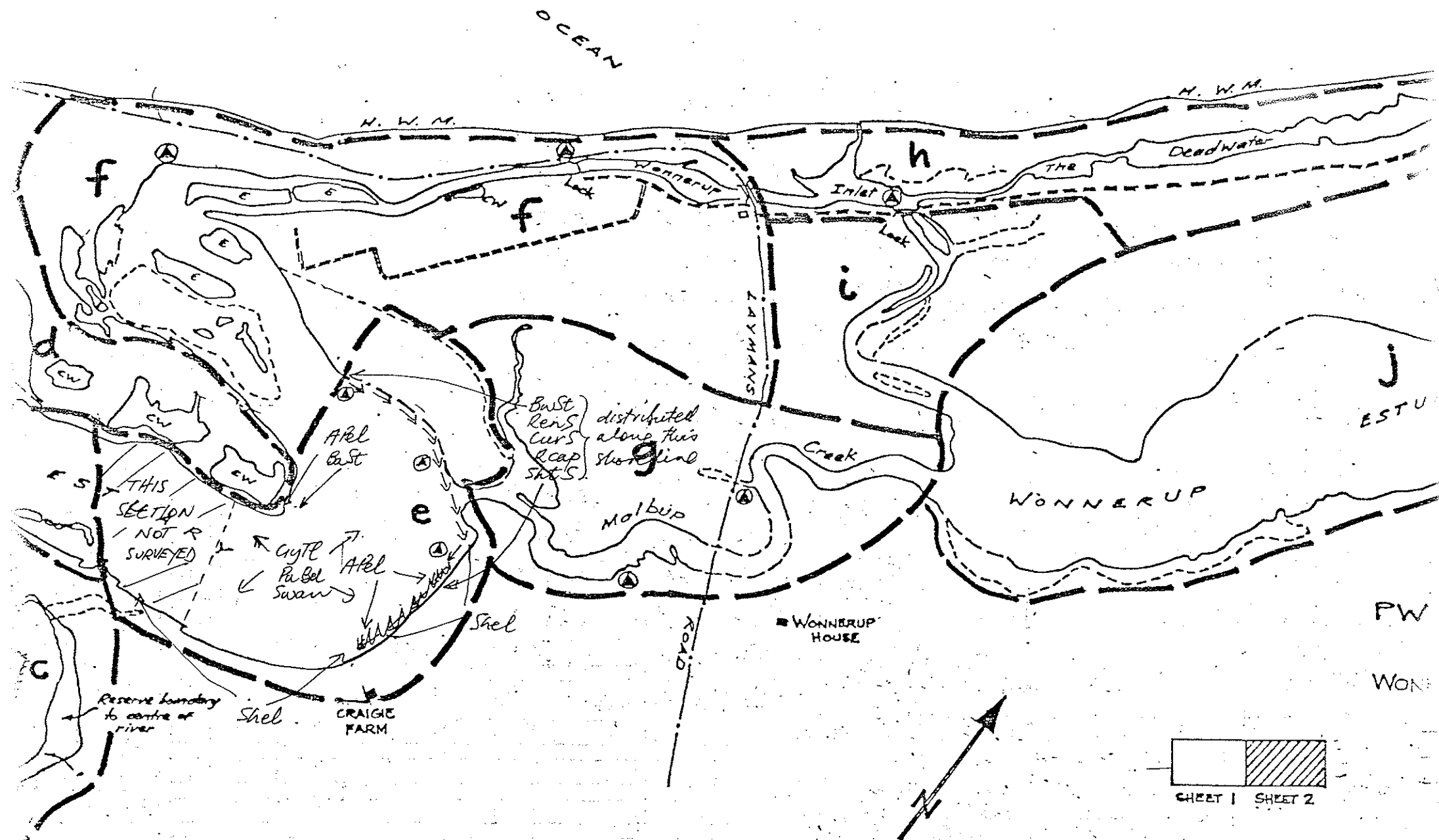
Observer

2	1	
---	---	--

Comb. // Spare

RETURN to
69 Lanark
St., Coolbinie
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



SHEET 1 SHEET 2

SCALE 1:20,000

SURVEY DATE

11/2/84.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEESONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE / WONNERUP postcode 6056
P.W.No. 229 Part No. F

Date of Survey 1.1.02 Start/Finish 1.20.0 / 1.33.0 Sheet 1 of 2
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Weather: V. Warm 35°C. Windy 15-20 km/h, S-SW.

Water Level: Receding markedly since 26/12/83 to between 3-6m from H.Way line. Av. depth ~ 10-20cm at southern end.

Bird Count: Large concentration of Grt E, WtHn, and APlb comparatively for this section. Grt E in south western corner with ~ 40% perched in surrounding trees. Waters actively feeding, almost all other birds resting.

SPECIES

English Name
abbrevn. (4 letters)
RAOU Atlas No.

1 APlb 10.6

2 Shel 20.7

3 GyFl 21.1

4 WtHn 18.8

5 GtE 18.7

6 SacI 1.79

7 Bwlt 1.46

8 PaBd 20.8

9 Gank 1.58

10 GreC 09.6

11 LiBC 09.7

12 PieC 09.9

13 SiGL 1.25

14 ShtS 1.63

15 RenS 1.62

16 CaST 1.12

17 Swan 20.3

18 ChTE 2.10

19 LPLC 1.00

20 BfOP 1.44

Total number of birds recorded (last digit y)

Tor P: Total or Partial Count y HOV

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

7.9

Sheet Ref.

2.1

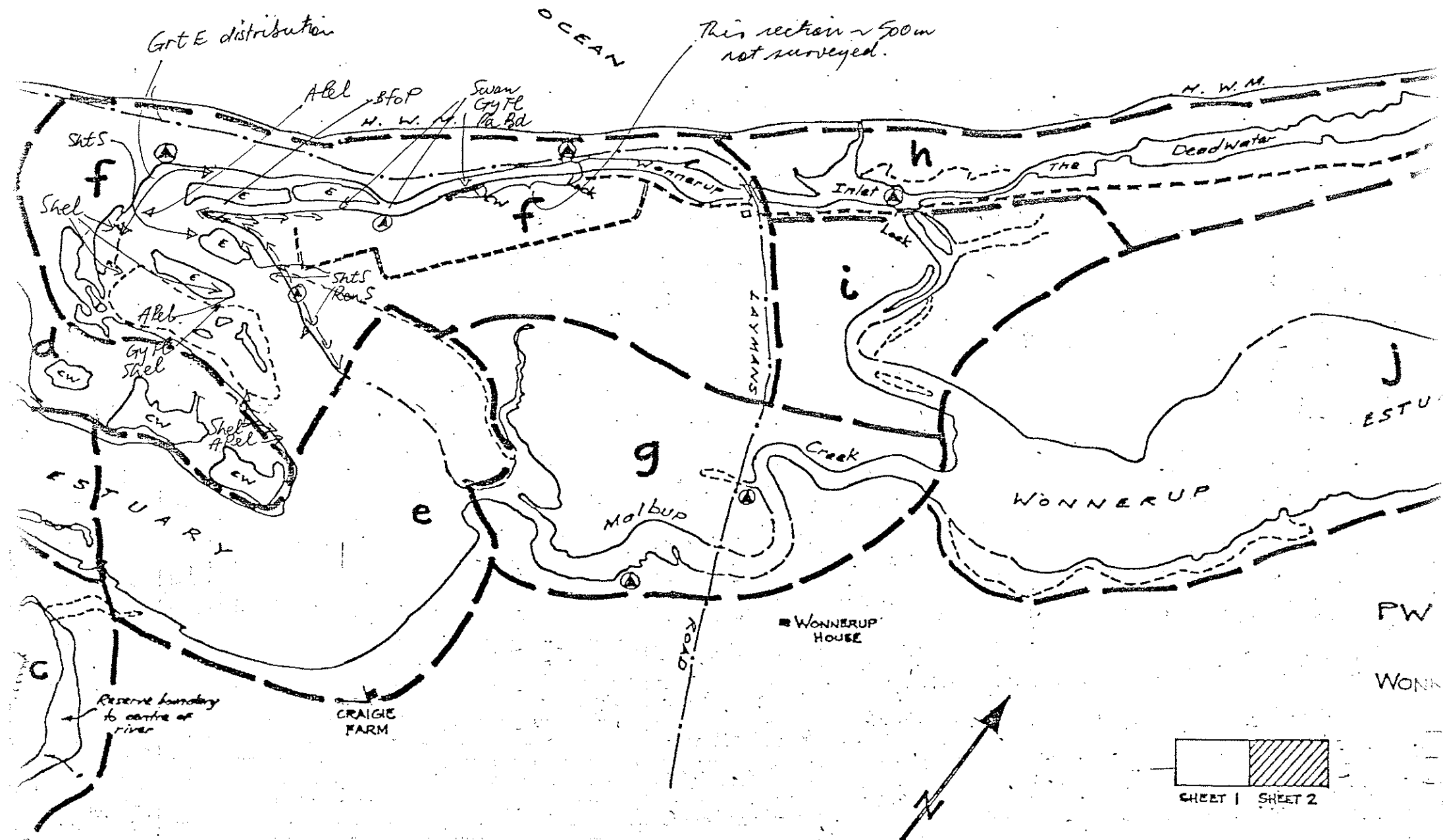
Observer

311

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone _____
Address _____

Wetland Nature Reserve name VASSE/WONNERUP postcode _____
P.W. No. 729 Part No. 1

Date of Survey 1.1.0.2.1.9.8.9. Start/Finish 12.0.0 13.3.0 Sheet 2 of 2
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SEE SHEET ①

SPECIES

English Name abbrevtn (4 letters) RAOU Atlas No.

Total numbr of birds recorded (last digit ↓)

T or P: Total or Partial Count ↓ HOV

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

1 RcaP 14.3

10 P

2 RnAV 14.8

5 P

3 MarS 1.5.9

1 P

4 FaiT 1.1.8

1 P

5 Coot 0.5.9

2 P

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Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

80

Sheet Ref.

21

Observer

311

Comb./Spare

RETURN to
69 Lanark
St. Coolbinia
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

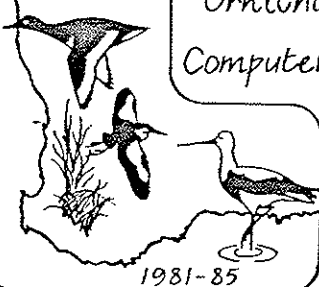
Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.



Observer B. K. KNEE phone 294 1472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE / WOMBEY postcode 6056

P.W.No. 229 Part No. 1

Date of Survey 1.1.02 Start/Finish 1.5.00 Sheet 1 of 1

1.1.02 1.9.84 1.5.00 15.20...eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments:

Water level receded markedly - only limited area of water available - see map.
Water quality deteriorated.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrev'n. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 <u>Surn</u>	<u>20.3</u>	<u>...</u> <u>6</u> <u>P</u>						
2 <u>GyTC</u>	<u>21.1</u>	<u>...</u> <u>5.5</u> <u>P</u>						
3 <u>LPiC</u>	<u>10.0</u>	<u>...</u> <u>1.0</u> <u>P</u>						
4 <u>LiBC</u>	<u>09.7</u>	<u>...</u> <u>1.2</u> <u>P</u>						
5 <u>KFHN</u>	<u>18.8</u>	<u>...</u> <u>4</u> <u>P</u>						
6 <u>Shel</u>	<u>20.7</u>	<u>...</u> <u>4</u> <u>P</u>						
7 <u>BwSt</u>	<u>14.6</u>	<u>...</u> <u>2</u> <u>P</u>						
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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

8.1

Sheet Ref.

2.1

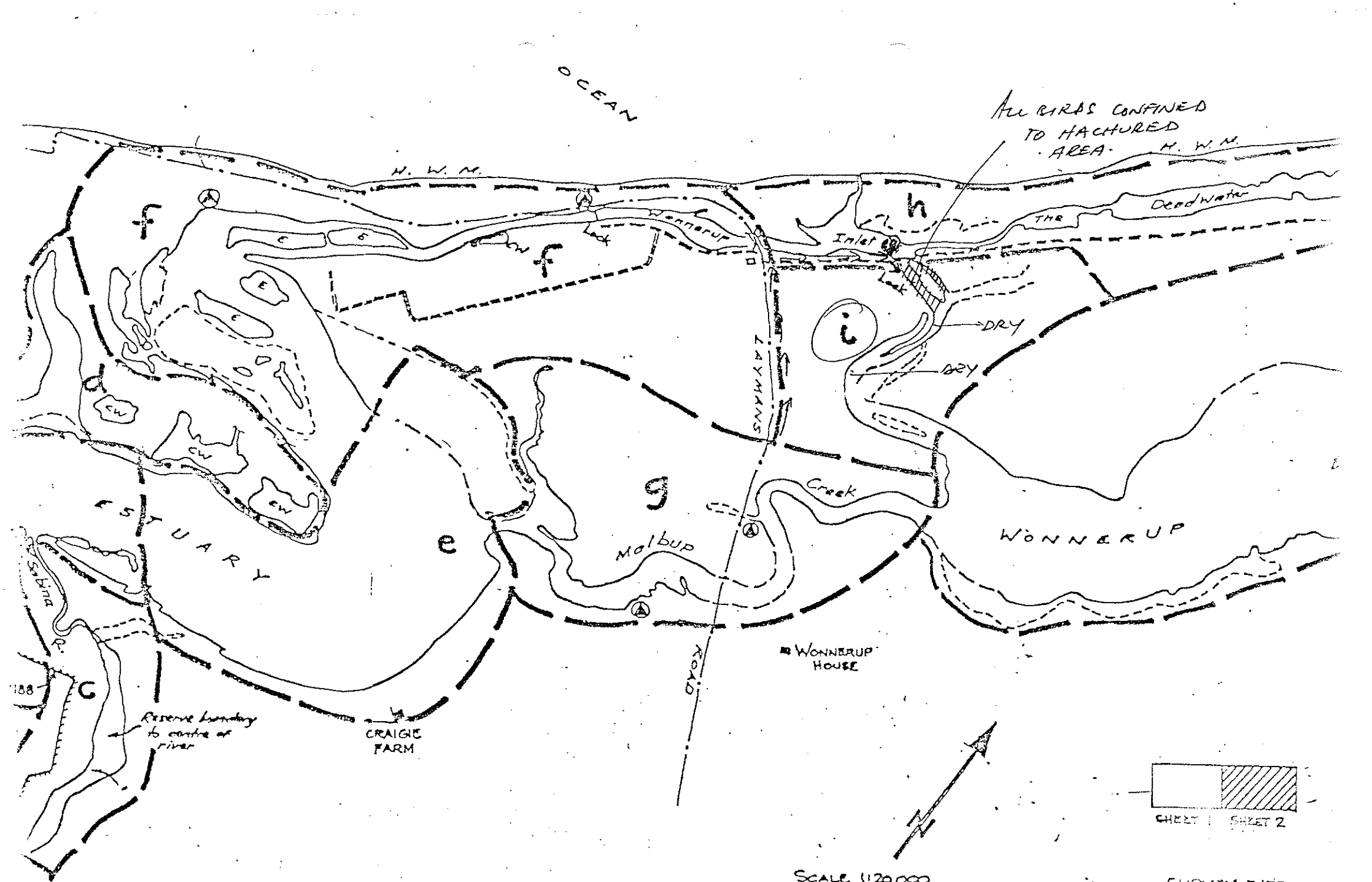
Observer

21

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



CHEET 1 SHEET 2

SURVEY DATE
11/2/84

RAOU Royal Australasian Ornithologists Union FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY

P.W.No. 229 Part No. f

Date of Survey 10.04.1984 Start/Finish 15.3.01.6.1.5 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Conditions warm, 15kush southerly.

Water Level: Very low 2 to 10cm average in lagoon but deeper in channels.

Many rocky, circular islands exposed.

Extensive mud shoreline exposed in southern part.

PuSn actively feeding on and around exposed rocks.

All ~~other~~ waders actively feeding. Ducks resting or roosting but some Shel feeding.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOV	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 PeC	0.9.9	... 7.0	P					
2 Shel	2.0.7	... 1.3.9	P					
3 BuSt	1.4.6	... 2.6	P					
4 GyTC	2.1.1	... 2.1.0	P					
5 Pa Bol	2.0.8	... 3.2	P					
6 RCap	1.4.3	... 1.4.2	P					
7 RenS	1.6.2	... 4	P					
8 SiGL	1.2.5	... 1	P					
9 MarS	1.5.9	... 1	P					
10 Swan	2.0.3	... 4	P					
11 PuSn	0.5.8	... 7	P					
12 Gank	1.5.8	... 1	P					
13 BfoP	1.4.4	... 4	P					
14 WfHw	1.8.8	... 1	P					
15								
16								
17								
18								
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20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

2.2.9

P.W.No.

1

Part

8.2

Sheet Ref.

2.1

Observer

21

Comb./Spare

RETURN to 69 Lanark St, Coolbinia, WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 941472
Address 72 VIVASH Rd Waverley

Wetland Nature Reserve name VASSE ESTUARY postcode 6056

P.W.No. 229 Part No. 'C'

Date of Survey Start // Finish Sheet 1 of 1
1.0.04.1.984 1.6.1.5 1.6.4.5...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Conditions warm, 15kmh southerly
Water Level: Very low - surprising to see any remaining - but supporting extensive weed growth and feeding birds.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Shel	2,0,7	...5,0,0	P					
2 BwSt	1,4,6	...1,6	P					
3 PieC	0,9,9	...6,0	P					
4 PaBd	2,0,8	...3,0	P					
5 Sulaw	2,0,3	...2	P					
6 Gyfl	2,1,1	...3,0	P					
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Use the Wetland Map on the back of this form to mark...

C/V ☐

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

2,2,9

P.W.No.

1

Part

8,3

Sheet Ref.

2,1

Observer

2,1

Comb // Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
FINAL
Computer Form for use in the Survey of
WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer BK&CT MASTERS phone 097 272002
Address PO BOX 162 CAPEL postcode 6271

Wetland Nature Reserve name VASSE ESTUARY
P.W.No. 229 Part No. SABINA RIVER RESERVE

Date of Survey 20/05/1984 Start/Finish 14.10/15.15 Sheet of eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☐ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☐ M
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Cool wet windy conditions with full cloud cover
seen only on the Sabina River (but included in above)
were: 23 PaBD out of 32
2 WFAHn " " 2
2 LPcC " " 2
1 PuSn " " 1
10 ManD " " 10

SPECIES		Total number of birds recorded (last digit)	Tor P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e
1 PaBD	20.8	32	T				
2 Shal	20.7	71	T				
3 Swan	20.3	62	T				
4 WFAHn	18.8	2	T				
5 LPcC	10.0	2	T				
6 PuSn	05.8	1	P				
7 ManD	20.2	10	T				
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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

84

Sheet Ref.

27

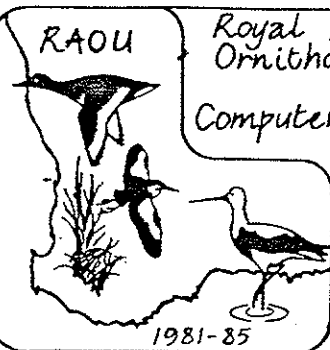
Observer

11

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. MASTERS phone 097-272474

Address PO BOX 162 CAPEL WA 6271

postcode

Wetland Nature Reserve name SABINA RIVER RESERVE, VASSE ESTU.

P.W.No. 229 Part No. 1 bte

Date of Survey 09/09/1984 Start/Finish 09.15/10.40 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ M
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Highest water level yet recorded. 2 Swan nests in estuary were flooded with eggs just being touched by the water.

Seen on Sabina River (included in above totals)

Black Duck 18 (including 8 young DR)

Grey Teal 22 (including 5 young DR/plus SN.)

Shoveler 2

SPECIES		Total number of birds recorded (last digit y)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 PaBD	208	...37	P		✓			
2 GyTR	211	...44	P		✓	✓		
3 Swan	203	...9	T		✓	✓	✓	
4 Shel	207	...7	T					
5 LPic	100	...2	P					
6 Dant	101	...1	T					
7 LpTE	187	...1	T					
8 Sigfl	125	...17	P					
9 APel	106	...2	T					
10 uigb	820	...1	T					
11 Shov	212	...2	P					
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Use the Wetland Map on the back of this form to mark...

C/V

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1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey;

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

85

Sheet Ref.

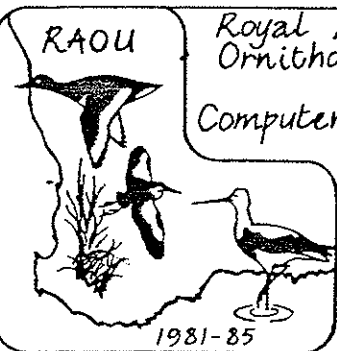
27

Observer

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer BK MASTERS phone 097 272 002
Address PO BOX 162 CAPEL

Wetland Nature Reserve name VASSE ESTUARY - SABINA RIVER
P.W.No. 229 Part No. 1 1st

Date of Survey 04/11/98 Start/Finish 09.55/11.20 Sheet 1 of 1
eg. 1.00pm = 1300.

- 1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
- 2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
- 3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
- 4. Used a telescope (T)? If not, put an X. X
- 5. Used a boat (B)? If not, put an X. X

Comments: Also 1 large unidentified sandpiper (Greenbank?)
plus 40 small " " (reduced stint?).

Seen on the Sabina River (and already included above).
36 PaBD including 11 ducklings
60 fTL including 6 "
2 RNhn

Water Level was down from winter peak but still high.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 BwSt	1,46	2,26	T					
2 Shl	2,07	37	T					
3 LpIC	1,00	5	P					
4 PaBD	2,08	68	P	✓				
5 fTL	2,11	77	P	✓				
6 WfHn	1,88	16	P					
7 APel	1,06	1	T					
8 Shov	2,12	4	T					
9 di bl	1,25	2	T					
10 JacJ	1,79	2	T					
11 Swan	2,03	24	T	✓				
12 RNhn	1,92	2	P					
13 ViWr	8,35	41	T					
14								
15								
16								
17								
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

- 1. approximate positions of any active nests found (SN, e, yn).
- 2. the route of your survey.
- 3. any other relevant information.

OFFICE USE

229
P.W.No.
1
Part
27
Sheet Ref.
27
Observer
11
Comb./Spare

RETURN to
69 Lanark
St. Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

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Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer BK MASTERS phone 097-272474
Address P.O. BOX 162 CAPEL

Wetland Nature Reserve name VASSE ESTUARY postcode 6271

P.W.No. 229 Part No. btc (1)

Date of Survey 21.07.19.84 Start/Finish 1.6.00 1.7.00 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

Calm, fine day with some cloud. Water level at normal winter high.

Following birds, included in total, were seen on the Sabina River: PaBD 9, GyTL 6, RNhn 3, PuSn 1.

NOTE No nests have ever been found by me in area hatched red aloe leaf because, I believe, winter storms from the NW can push water level up an extra 30-40 cm, as evidenced by storm debris in vegetation.

SPECIES

English Name
abbreviated
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
↓ HDV

BREEDING:

Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 LPIC 1,0,0

...8 T

2 PaBD 2,0,8

...3,1 T

3 GyTL 2,1,1

...1,2,6 T

4 Shel 2,0,7

...7 T

5 Swan 2,0,3

...9 T

6 Shov 2,1,2

...3 T

7 WFLn 1,8,8

...3 T

8 ManD 2,0,2

...2 T

9 RNhn 1,9,2

...3 P

10 PuSn 0,5,8

...1 P

11

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12

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Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

27

Sheet Ref.

27

Observer

11

Comb./Spare

RETURN to
69 Larack
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

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WATERBIRD USAGE

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Wetland Nature Reserves

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RODNEY VERNET phone 351767

Address 52 KIMBERLEY ST, WEST LEEDESVILLE

postcode 6007

Wetland Nature Reserve name VASSE/WONWERNP

P.W.No. 229 Part No. 1 - Sabina R & Reserve

Date of Survey 1.2.84 Start/Finish 1.1.5 Sheet 1 of 1

1.2.84 1.9.84 1.1.5 1.4.00...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ M
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

- * ~~Wetland~~ Clear day, little wind.
- * Two stick nests ~~found~~ found on SABINA river fairly high in Euc. chamardulensis.

SPECIES

English Name
abbrevtn
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 WFHN 1.9.8

2 T

2 GRTE 1.8.7

2 T

3 RNHN 1.9.2

10 P

4 SNAN 2.0.3

9 P

5 SHEL 2.0.7

2 T

6 PABD 2.0.8

2 P

7 GYTL 2.1.1

6 P

8 PUSN 0.5.3

2 T

9 WICK 3.3.3

60 P

10 WBSE 2.2.6

1 T

11

12

13

14

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16

17

18

19

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Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

22.9

P.W.No.

1

Part

88

Sheet Ref.

1.1.0

Observer

Comb./Spare

RETURN to
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone _____

Address 72 VIVERASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY postcode _____

P.W.No. 229 Part No. 19

Date of Survey 29/09/1989 Start/Finish 14.00/15.00 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Water Levels: At nominal HW way but beginning to recede.

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1	Wf/Hn	18,8
2	Hard	21,5
3	Gyfl	21,1
4	LPic	1,0,0
5	Shel	2,0,7
6	PaBd	2,0,8
7	Shov	21,2
8	GrtE	1,8,7
9	Snk I	1,8,0
10	Sac I	1,7,9
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HO
---	-------------------------------------

...	3	P
...	1	P
...	1	P
...	1	P
...	2	P
...	2	P
...	1	P
...	2	P
...	3	P
...	1	P
...		
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...		

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

2,2,9
P.W.No.
1
Part
8,9
Sheet Ref.
2,1
Observer
21
Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW.

Wetland Nature Reserve name VASSER ESTUARY. postcode _____
P.W. No. 229 Part No. 'C'

Date of Survey 29.0.9.19.8.4 Start/Finish 1.2.1.5.13.0.0 Sheet 1 of 1
...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments:

Water Levels: At nominal HW/M
water level affected by tide
on seaward side of locks and
∴ lower, with good water habitat.
Gank on this side close to locks.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn
1 GrtE	1.8.7	2	P				
2 Gank	1.5.8	1	P				
3 GreC	0.9.6	3	P				
4 Dart	1.0.1	1	P				
5 Swan	2.0.3	2	P				
6 Shel	2.0.7	2	P				
7 GytP	2.1.1	2	P				
8 LPiC	1.0.0	2	P				
9 LiBC	0.9.7	2	P				
10							
11							
12							
13							
14							
15							
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17							
18							
19							
20							

Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

70

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to

the Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

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WATERBIRD USAGE

Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY postcode _____
P.W. No. 229 Part No. 'e'

Date of Survey 29/09/1984 Start/Finish 11.15/12.00 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments:

Water Levels: Generally as far Sec 4 but wader habitat develops earlier here and small fringe areas available.

Bird Count: Swan: Includes 21 clutches av. 4 @ from 2005-1000.

Wick: Probably mostly Gt Pl.

Wwr: In flight, Sandpiper Sp.

SPECIES

English Name abbrevn (4 letters) RAOU Atlas No.

1 Swan 20.3

2 Wick 8.3.8

3 ~~Wick~~

4 Gt E 1.8.7

5 Pie C 0.9.9

6 L Pic 1.0.0

7 Sigl 1.2.5

8 A Pel 1.0.6

9 Sac I 1.7.9

10 Wf Hn 1.8.8

11 Pa Bd 2.0.8

12 Mus D 2.1.7

13 Shel 2.0.7

14 Li Wr 8.3.5

15

16

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19

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Total number of birds recorded (last digit)

T or P: Total or Partial Count

BREEDING: Tick ✓ if these categories were observed...

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

9.1

Sheet Ref.

2.1

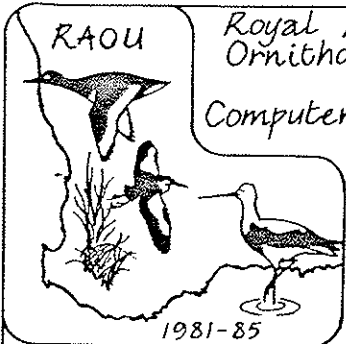
Observer

211

Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 941472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY postcode 6056

P.W.No. 229 Part No. f

Date of Survey 29/09/1984 Start/Finish 10.00/11.15 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Conditions fine, light winds.

Water Levels: Still at nominal HWM, although evidence of water receding.

No exposed mud or unvegetated shoreline - explains water absence.

Bird Count: Coot - all birds in one large raft. i.e. too early for dispersal for breeding

Breeding: Swan: 8 clutches, av. 4 @ 2 to 6 wks.

GyTL: 2 " , 1x14@1wk, 1x12@2wk

PaBd: 1 " , 1x5@6wk.

Shel: Several immature birds.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOV	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 PaBd	20.8	83	P	✓				
2 GyTL	21.1	105	P	✓				
3 Hard	21.5	18	P					
4 LPEC	10.0	22	P					
5 Shov	21.2	3	P					
6 HhGb	0.62	16	P					
7 Swan	20.3	99	P	✓				
8 PuSn	0.58	2	P					
9 Coot	0.59	160	P					
10 WiGb	8.20	46	P					
11 GrTE	1.87	3	P					
12 SiGL	1.25	10	P					
13 MusD	21.7	5	P					
14 Shel	20.7	22	P					
15 SacI	1.79	1	P					
16 LiBC	09.7	9	P					
17 WfHn	1.88	2	P					
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

92

Sheet Ref.

21

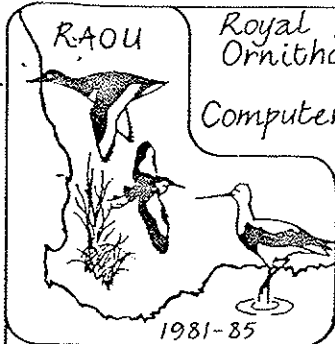
Observer

21

Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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WATERBIRD USAGE

Wetland Nature Reserves

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer M. H. Branner phone 387 1539

Address 238 Sullivan Rd Warrandyte

postcode 6014

Wetland Nature Reserve name Vinassa Estuary

P.W. No. 229 Part No. 1

Date of Survey 05.04.1985 Start/Finish 1.4.0.0 Sheet 1 of 1

1.4.0.0 1.6.0.0...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Area covered River mouth

To 300 metres up river.

Approx 115° 25' 33° 40'

SPECIES
English Name
abbrevn.
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit)

T or P:
Total or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

94

Sheet Ref.

A

Observer

☐

Comb./Spare

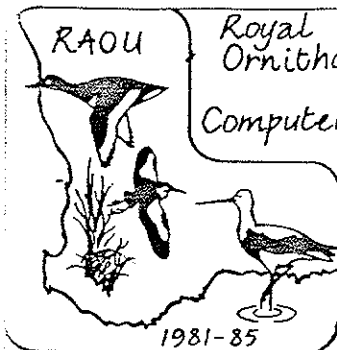
RETURN to

the Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer BK MASTERS phone 097-272474
Address PO BOX 162 CAPEL 6271

Wetland Nature Reserve name VASSE ESTUARY
P.W.No. 229 Part No. SABINA RIVER RESERVE

Date of Survey 1.0.03.1985 Start/Finish 1.6.20.17.30 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? -W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). -N
3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. -L
4. Used a telescope (T)? If not, put an X. -X
5. Used a boat (B)? If not, put an X. -X

Comments: Included in above totals but found on the

Observations: WFLHn 1 PuSn 8
PaBD 34+ LpC 1
GyTE 1 ManD 90+

Very little water left in estuary (much more than normal for this time of year, however) and, outside of Sabina River Reserve, the following were seen: Shel 1000+
RenS 300+
Large unidentified Spyer 3

SPECIES	
English Name abbrev'n (4 letters)	RAOU Atlas No.

1	ReaP	1,4,3
2	RenS	1,6,2
3	Shel	2,0,7
4	YbSE	1,8,2
5	WFLHn	1,8,8
6	CoS	1,6,1
7	PaBD	2,0,8
8	GyTE	2,1,1
9	PuSn	0,5,8
10	LpC	1,0,0
11	ManD	2,0,2
12		
13		
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18		
19		
20		

Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓
---	----------------------------------

...	3,5	T
...	6,8,0	T
...	9,5	T
...	2	T
...	3	P
...	1,9	T
...	3,4	P
...	1	P
...	8	P
...	1	P
...	9,0	P
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BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

C/V

1/1

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1/1

1/1

1/1

1/1

1/1

1/1

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

9,5

Sheet Ref.

27

Observer

1/1

Comb/Spare

RETURN to

69 Lanark

St, Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE / R. C. BURKIN phone 294 1472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP ESTUARY

P.W.No. 229 Part No. j

Date of Survey 0.9.02/19.8.5 Start/Finish 1.6.30/1.6.50 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Conditions hot, humid

Water Level: Receded from apparent HWM as shown.

Remainder of Sec j also contained water but no count possible.

Count: Approx. count only due to distance.

Remaining part of section to South not counted but bird nos. in total estimated to be in proportion to those counted on the northern 35% of area.

SPECIES

English Name
abbrevtn
(4 letters)

RAOU Atlas
No.

Total number
of birds
recorded
(last digit)

Tor P:
Total
or Partial
Count
H O V

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 20.3

2 Shel 20.7

3 Sac I 1.7.9

4 Sigl 1.2.5

5 Gylt 21.1

6 Parld 20.8

7

8

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Use the
Wetland Map on
the back of
this form
to mark...

c/v

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

96

Sheet Ref.

21

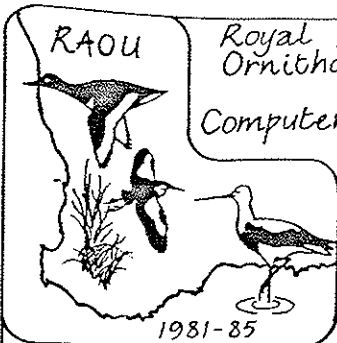
Observer

21

Comb/Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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of
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer P.K. KNEEBONE/R.C. BURKING phone 2941472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY postcode 6056

P.W.No. 229 Part No. 'C'

Date of Survey 09.02.1985 Start/Finish 15.45/16.15 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Conditions: Hot, humid, light winds.

Water Level: Receding, lower than other sections.
Same level each side of locks.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HOW	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 YBSL	1,8,2	...13	T					
2 APel	1,0,6	...39	T					
3 GrtE	1,8,7	...6	T					
4 Shel	2,0,7	...15	P					
5 BWSt	1,4,6	...4	P					
6 WfHn	1,8,8	...10	P					
7 SigE	1,2,5	...116	P					
8 PaBd	2,0,8	...21	P					
9 GyrE	2,1,1	...16	P					
10 SacI	1,7,9	...1	T					
11 LiBC	0,9,7	...2	P					
12 LPiC	1,0,0	...2	P					
13 ComS	1,5,7	...1	P					
14								
15								
16								
17								
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

9.7
Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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WATERBIRD USAGE

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Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE/R.C. BURKING phone 294 1472
Address 72 VIVEASH RD SUBVIEW

Wetland Nature Reserve name VASSE ESTUARY post code 6056
P.W.No. 229 Part No. 9

Date of Survey 09/02/1985 Start/Finish 17.30/18.00 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Conditions hot, humid, light winds
Water Level: Low and receding, ^{mostly} dry north of
Layman's Road.

Bird Count: Sunk I arrived from feeding in
adjacent grassy paddocks.

SPECIES
English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

Tor P.
Total
or Partial
Count
HO

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Sunk I 1.8.0

20.0 P

2 Man D 2.0.2

1.0 P

3 Pa Bd 2.0.8

2.8 P

4 Shel 2.0.7

8 P

5 Swan 2.0.3

4 P

6 Wf Hn 1.8.8

4 P

7 Ma Ha 2.1.9

1 P

8 Li BC 0.9.7

6 P

9 Coot 0.5.9

3.2 P

10 Gy TE 2.1.1

3.2 P

11

12

13

14

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16

17

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

1/1

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey.

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

98

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer B.K. KNEEBONE/R.C. BURKING phone 2941472
Address 72 VIVEASH RD SWANVIEWWetland Nature Reserve name VASSE ESTUARY postcode 6056P.W.No. 229 Part No. 'e'Date of Survey 09/02/1985 Start/Finish 1500/1540 Sheet 1 of 1
eg. 1:00pm = 1300.
#45 #200

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Conditions very hot, humid, light winds.
Water Level: As for Sec 'b' but 'normal' water habitat expected this time of year virtually non-existent due to higher water levels leaving only relatively narrow margin of ~~around~~ what would be good water habitat if not for dense mat of green algae extending into shallow water.

Count: Portion completed from Sec 'b' in a.m. and remainder in p.m.

Area not surveyed probably held birds in numbers pro rata to area but not included in figures submitted.

SPECIES
English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
↓ HO

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 20.3

. 330 P

2 Shel 20.7

. 200 P

3 Gyl 21.1

. 600 P

4 Pa Bd 20.8

. 400 P

5 Grt E 18.7

. 36 P

6 Arel 10.6

. 117 P

7 Sigl 12.5

. 150 P

8 Coot 0.59

. 200 P

9 Hn Gb 0.62

. 150 P

10 Pie C 0.9.9

. 12 P

11

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

1/1

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

. 229

P.W.No.

. 1

Part

. 99

Sheet Ref.

. 21

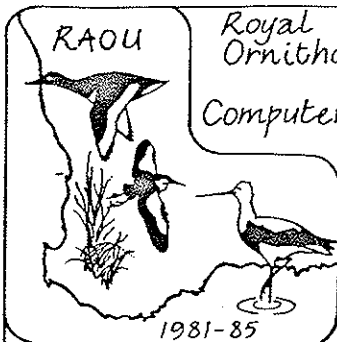
Observer

21

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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of
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vested in the
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Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE / R.C. BURKING phone _____
Address _____

Wetland Nature Reserve name VASSE ESTUARY postcode _____
P.W.No. 229 Part No. f

Date of Survey Start/Finish Sheet 2 of 2
09/02/1985 1330/1500...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: See Sheet 1.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 RNhn	192	...	2 P					
2 ComS	157	...	2 P					
3								
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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1,0,0
Sheet Ref.

21

Observer

311

Comb./Spare

RETURN to
the Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer S.K. KNEEBONE / R.C. BURKING phone 2941472

Address 72 VIVEASH RD SWANVIEW.

Wetland Nature Reserve name VASSE ESTUARY.

P.W.No. 229 Part No. 'f'

Date of Survey 09.02.1985 Start/Finish 1330/1500 Sheet 1 of 2

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? -W

2. Put an "A" if you are confident that you found all species present (otherwise put "N"). -N

3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. -L

4. Used a telescope (T)? If not, put an X. -T

5. Used a boat (B)? If not, put an X. -X

Comments: Conditions very hot, humid, light winds.

Water Level: High by comparison with 2/84 due to 75mm rain 29/12/84 and cooler summer.

Bird Count: Large concentrations, with most in lagoon area. Absence of waders - little to no habitat. Narrow shoreline area normally available covered by mat of green algae extending into shallow water.

A. P. L. actively feeding in early a.m. on mullet in section from locks to 400m west on 10/2/85.

SPECIES

English Name abbrevn. (4 letters) RAOU Atlas No.

1 GrtE 187

2 LiBC 097

3 LPiC 1,00

4 Part 1,0,1

5 MUS D 2,17

6 ARL 1,06

7 GtE 2,1,1

8 PaBl 2,08

9 Coot 0,59

10 Hard 2,1,5

11 WtHn 188

12 OSRy 2,4,1

13 Swan 2,03

14 YbSl 182

15 Shel 2,07

16 BWSt 1,46

17 Gark 1,58

18 SacI 1,79

19 SiGl 1,25

20 PieC 09,9

Total number of birds recorded (last digit)

...65 P

...53 P

...72 P

...7 P

...42 P

...26,5 T

...77,2 P

...46,9 P

...8,29 P

...7 P

...55 P

...2 T

...5,1,5 T

...9 T

...45,0 P

...1,1 P

...2 P

...4 P

...9,9,5 P

...5 P

Tor P: Total or Partial Count

... P

... P

... P

... P

... P

... T

... P

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... P

... P

... P

... T

... T

... P

... P

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... P

... P

... P

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

C/V

1/1

1/1

1/1

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1/1

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1,0,1

Sheet Ref.

21

Observer

311

Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
Computer Form for use in the Survey of
WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B.K. KNEEBONE & RC BURKING phone 2941472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY postcode 6056
P.W.No. 229 Part No. 15

Date of Survey 09/02/1985 Start/Finish 1000/1200 Sheet 1 of 1
eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Conditions very hot, humid - light winds
Water Level: Receded but 75mm rain at 29/12/84
persisted in keeping levels much higher
than in 2/84. Extensive water habitat.
Count: Many birds actively feeding on water
(~60%) - remainder resting around margins.
Waders actively feeding.
RearS and Rcap intermixed, Rcap extending
across to drier areas.
Water habitat appeared under utilised at
time of survey.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count. ↓ HO	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevtn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Shel	207	950	T					
2 Swan	203	250	T					
3 A Fel	106	2	T					
4 Patd	208	1200	T					
5 GgTE	211	1800	T					
6 BuSt	146	230	T					
7 Gank	158	12	P					
8 GrtE	187	42	T					
9 RCap	143	460	P					
10 PenS	162	650	P					
11 SIGL	125	120	T					
12 WfHw	188	19	T					
13 RnAv	148	242	P					
14 PuSn	058	1	P					
15 MaHa	219	1	T					
16								
17								
18								
19								
20								

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1.02

Sheet Ref.

21

Observer

211

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union
Computer Form for use in the Survey of
WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE / R. C. BURKING phone 294 1472
Address 72 VIVEASH RD SWANVIEW.

Wetland Nature Reserve name VASSE ESTUARY postcode 6056
P.W. No. 229 Part No. 'a'

Date of Survey 09/02/1985 Start/Finish 11.00/11.30 Sheet 1 of 1
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Conditions very hot, humid, light winds
Water Level. As for Sec 8 - open water but very shallow, estimated ≤ 15 cm
Extensive water habitat

Count: birds densely grouped at western end, mostly resting.
Waders actively feeding.
Have a problem in determining extent of water & birds past point shown on map

SPECIES		Total number of birds recorded (last digit)	Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 Swan	203	100	P					
2 Shel	207	50	P					
3 Pa Bd	208	600	P					
4 Gy Pl	211	600	P					
5 Wf Hn	188	14	P					
6 Bu St	146	50	P					
7 R Cap	143	100	P					
8 Ren S	162	100	P					
9								
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13								
14								
15								
16								
17								
18								
19								
20								

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE
P.W. No. 229
Part 1
Sheet Ref. 103
Observer 21
Comb / Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

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Ornithologists Union

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WATERBIRD USAGEWetland Nature Reserves
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Authority & situated in the
South-West & Eucla Divisions.Observer S. K. KNEEBONE phone 941472
Address 72 VIVEASH RD SWANVILLEWetland Nature Reserve name VASSE postcode 6056
P.W.No. 229 Part No. 'a'Date of Survey 2.2.1984 Start/Finish 11.00/1.15 Sheet 1 of 1
eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Counts - estimates only - taken from within Sec 'b'.
Duck are probably Shel, Gy Fl, Pa Bol in same proportion as for sec 'b'.

SPECIES

English Name
abbrevn.
(4 letters) RAOU
Atlas No.Total number
of birds
recorded
(last digit ↓)T or P:
Total
or Partial
Count
↓ HOVBREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 uidk 838

400 P

2 ScGL 125

500 P

3

4

5

6

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

11

11

11

11

11

11

11

11

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11

11

11

11

11

11

1. approximate
positions of
any active
nests found
(SN, e, yn).2. the route
of your
survey;3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

104

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves

vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE postcode 6056

P.W.No. 229 Part No. 1

Date of Survey 22/12/1989 Start/Finish 10.30/11.45 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Conditions fine, light winds.

Water Level: Surprisingly high - extensive areas still inundated Samphire but now receding slowly.

Av. depth in Reserve ~ 10-15cm.

Prolific animal & vegetative matter.

80% of all birds actively feeding throughout sec '6'

Count: Apart from BwSt, no waders observed - water levels still too high. WfHn - inc. ~ 20% immatures

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e		
1 BwSt	1,4,6	350	P						1. approximate positions of any active nests found (SN, e, yn). 2. the route of your survey. 3. any other relevant information.
2 PaBd	2,0,8	366	P						
3 WfHn	1,8,8	113	P						
4 Gyl	2,1,1	412	P						
5 Swan	2,0,3	86	P						
6 Shel	2,0,7	590	P						
7 SnkI	1,8,0	1	P						
8 SigE	1,2,5	22	P						
9 SacI	1,7,9	2	P						
10 GrtE	1,8,7	4	P						
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

OFFICE USE

229
P.W.No.

1
Part

1,0,5
Sheet Ref.

21
Observer

21
Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

RAOU Royal Australasian Ornithologists Union
Computer Form for use in the Survey of
WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE postcode
P.W.No. 229 Part No. 'f'

Date of Survey 22/2/98 Start/Finish 1.2.15/1.3.30 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Conditions fine, light winds.
Water Level: Still high, at base of peripheral vegetation ∴ no exposed mud banks, no wader habitat of any extent.
Count: Gy TC - 2 clutches 1 of 8, ~4 wks
1 of 4, ~3 wks.
LiGB - probably HhGB, composed of 3 large 'creech' type groups.

SPECIES		Total number of birds recorded (last digit ↓)	Total or Partial Count ↓ HOV	BREEDING: Tick ✓ if these categories were observed...					C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevtn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn		
1 LiGB	8.2.0	16.0	P						11	1. approximate positions of any active nests found (SN, e, yn). 2. the route of your survey, 3. any other relevant information.
2 Swan	2.0.3	9.5	P						11	
3 GrtE	1.8.7	1.0	P						1	
4 Coot	0.5.9	1.7.5	P						11	
5 LiBC	0.9.7	1.6	P						1	
6 APel	1.0.6	1.7	P						11	
7 MUS D	2.1.7	2.0	P						1	
8 Bwst	1.4.6	2	P						1	
9 Shel	2.0.7	7.8	P						11	
10 WFTn	1.8.8	1.5	P						1	
11 PaBd	2.0.8	1.5.2	P						11	
12 Gy TC	2.1.1	1.5.3	P						11	
13 SiGL	1.2.5	6	P						1	
14 L PiC	1.0.0	2.6	P						1	
15 SacI	1.7.9	2	P						1	
16 RNhn	1.9.2	5	P						11	
17 Sak I	1.8.0	4	P						1	
18 Pre C	0.9.9	1	P						1	
19 Crank	1.5.8	1	P						1	
20										

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

OFFICE USE
229
 P.W.No.
1
 Part
1.0.6
 Sheet Ref.
21
 Observer
211
 Comb. / Spare
 RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2941472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE postcode 6056
P.W.No. 229 Part No. 'e'

Date of Survey 2.2.1984 Start/Finish 1.3.3.0/1.4.0.0 Sheet 1 of 1
...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W ☐ M ☐ D
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A ☐ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X ☐ L ☐ M ☐ H
4. Used a telescope (T)? If not, put an X. ☒ X ☐ T
5. Used a boat (B)? If not, put an X. ☒ X ☐ B

Comments: Conditions fine, light winds
Water Level: Still high (See remarks
Sec 'f').

SPECIES
English
Name
abbrevia.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

Tor P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...
dd DR SN e yn

1 WfHu 1,8,8

... 3,5 P

2 Pie C 0,9,9

... 1,0 P

3 APel 1,0,6

... 1,1 P

4 Swan 2,0,3

... 1,1,0 P

5 Coot 0,5,9

... 1,5,0 P

6 SiGl 1,2,5

... 5,0 P

7 Shel 2,0,7

... 3,0 P

8 PaBd 2,0,8

... 1,0 P

9 GyTE 2,1,1

... 1,0 P

10 BuSt 1,4,6

... 2,8 P

11 LiGb 8,2,0

... 8,0 P

12 GrtE 1,8,7

... 2 P

13 Lidk 8,3,8

... 3,0,0 P

14 MusD 2,1,7

... 1,2 P

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

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11

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1,0,7

Sheet Ref.

21

Observer

211

Comb/Spare

RETURN to

Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472
Address 72 VIVEASH RD SWANVIEW.

Wetland Nature Reserve name VASSE / WONNERUP postcode 6056
P.W. No. 229 Part No. 1

Date of Survey 2.2.1.2.1.9.8.4 Start/Finish 1.4.1.5.1.4.3.0 Sheet 1 of 1
eg. 1:00pm = 1300.

- Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
- Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
- Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
- Used a telescope (T)? If not, put an X. ☒ X
- Used a boat (B)? If not, put an X. ☒ X

Comments: Conditions fine, light winds.

Water Levels: Receding noticeably, more so than other sections. Some suitable water habitat

Count: Gytl 2 clutches - 1 of 4, ~ 5wks
1 of 4, ~ 2wks

SPECIES

English Name
abbrev. (4 letters)
RAOU Atlas No.

1 Gytl 21.1

2 GtE 1.8.7

3 WfHn 1.8.8

4 ARl 1.0.6

5 LiBC 0.9.7

6 Shel 2.0.7

7 SiGl 1.2.5

8 LPIC 1.0.0

9 SacI 1.7.9

10

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Total number of birds recorded (last digit)

50 P

3 P

3 P

5 P

1.2 P

1.5 P

20 P

4 P

1 P

Tor P: Total or Partial Count

HO

BREEDING: Tick ✓ if these categories were observed...
dd DR SN e yn

✓

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey.

3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

1.0.8

Sheet Ref.

21

Observer

21

Comb. Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Computer Form for use in the Survey of

WATERBIRD USAGEof
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer B K Masters phone Address postcode Wetland Nature Reserve name VASSEP.W.No. 229 Part No. adjacent reserve areaDate of Survey 10.02.1985 Start/Finish Sheet of
 ...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity.
4. Used a telescope (T)? If not, put an X.
5. Used a boat (B)? If not, put an X.

Comments:widk = PABD, CylR.

SPECIES

English
Name
abbrevn
(4 letters)RAOU
Atlas
No.Total
number
of birds
recorded
(last digit ↓)Tor P:
Total
or Partial
Count
↓ HOVBREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).2. the route
of your
survey,3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

1.1.0

Sheet Ref.

27

Observer

21

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

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Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B K MASTERS phone _____
Address _____

Wetland Nature Reserve name VASSE postcode _____

P.W. No. 229 Part No. _____ Adjacent reserve area _____

Date of Survey 1.2.01 Start/Finish 1.1.00 Sheet of 12.30 eg. 1.00pm = 1300.

1.2.01 1.9.85 1.1.00 12.30 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

SPECIES

English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit ↓)

Tor P:
Total
or Partial
Count.
↓ HO

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 20.3

.4.00 P

2 Shel 20.7

.8.00 P

3 wdk 8.38

.5.00.0 P

4 uslt 8.23

.3.0.00 P

5 Wfltn 1.88

.2.0.0 P

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Use the
Wetland Map on
the back of
this form
to mark...

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

1.1.1

Sheet Ref.

27

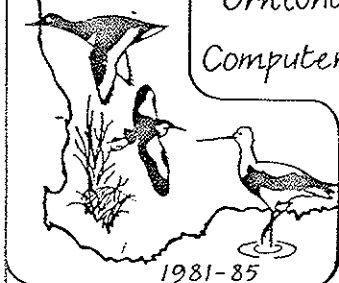
Observer

21

Comb. Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer R K MASTERS phone 097 272474 1+

Address PO Box 162 CAPE phone 314-241-1111

Wetland Nature Reserve name VASSE ESTUARY postcode 6271

P.W.No. 229 Part No. SABINA RIVER RESERVE

Date of Survey Start/Finish Sheet 2 of 2

12011985 1.1.00 12.30 ...eq. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Visible outside reserve boundary but within Varze Estuary were between 10 & 13000

birds: swan 3-400

Mountain Deck 6-300

Grey Teal & Black Duck 4-5000

Slender or similar "white" birch 2-3000

WF Heron 1-200

Entered
on
another
sheet.

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓ HO✓	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevi. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 LiBC	0.9.7	1	P					
2								
3								
4								
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Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey;

3. any other relevant information

OFFICE USE

229

P.W.No.

11

Part

412

Sheet Ref.

27

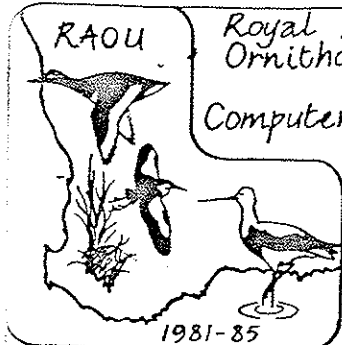
Observer

31	
----	--

Comb. // Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B K MASTERS phone 097 2724744
Address PO BOX 162 CAPEL

Wetland Nature Reserve name VASSE ESTUARY postcode 6271

P.W.No. 229 Part No. SABINA RIVER RESERVE

Date of Survey 1.2.01 Start/Finish 1.1.00 Sheet 1 of 2
19.35 1.23.00 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Highest every January water level.
Huge numbers of ducks at or upstream of mouth of
Sabina River:
WF Heron 1
Sacred Ibis 1
Grey Teal 510 (includes 45 young)
Black Duck 25
BW Shoveller 1
Rufous N Heron 8
Little Pied Corm 5
Little Black Corm 1

SEE ATTACHED

SPECIES		Total number of birds recorded (last digit y)	T or P: Total Partial Count y HOY	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 BwSt	1,4,6	537	P					
2 RN AV	1,4,8	2	P					
3 WFLHn	1,8,8	27	T					
4 Sac I	1,7,9	2	T					
5 Gy TE	2,1,1	740	P	✓	✓			
6 Pa BD	2,0,3	72	P					
7 Sil l	1,2,5	9	T					
8 Bl l	2,0,7	59	T					
9 Br St	1,4,7	1	T					
10 Int E	1,8,7	3	T					
11 WWR	8,3,5	1	P					
12 Dart	1,0,1	1	P					
13 Int I	1,8,0	2	T					
14 Hov	2,1,2	1	T					
15 Hb Ha	2,1,9	3	P					
16 Swan	2,0,3	43	T					
17 Pu In	0,5,8	1	P					
18 APd	1,0,6	1	T					
19 RNhn	1,9,2	8	P					
20 LPlC	1,0,0	5	P					

Use the
Wetland Map on
the back of
this form
to mark...

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1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1/3

Sheet Ref.

27

Observer

3/1

Comb/Spare

RETURN to

69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGEWetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer B K & C T MASTERS phone 097-272474
Address PO BOX 162 CAPELWetland Nature Reserve name VASSE ESTUARY postcode 6271
P.W.No. Part No. SABINA RIVER RESERVEDate of Survey 18 05 1985 Start/Finish 14.20 15.45 Sheet 1 of 118 05 1985 1545 eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments: Comparatively low water level for this time of year. Only about 1/3rd of normally flooded land was carrying open water. General vegetation growth, especially samflaw, was best that I can recall.

Seen on Sabina River (but included in the above totals): -
PaBD 9, Man D 12, WfHn 2, LPiC 1, uigb 1.

Outside of reserve boundary & visible from the mouth of the Sabina River were 600+ Swan & 3000+ duck.

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1 WfHn 1,8,8

2 MusD 2,1,7

3 PuSn 0,5,8

4 BwSt 1,4,6

5 Swan 2,0,3

6 Lhww 2,1,2

7 PaBD 2,0,8

8 Lhel 2,0,7

9 GyTl 2,1,1

10 Fci T 1,1,8

11 Man D 2,0,2

12 LPiC 1,0,0

13 uigb 8,2,0

14 15 16 17 18 19 20

Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓
---	----------------------------------

... 5 T

... 2 T

... 1 P

... 1,2,8 P

... 7,0 T

... 1 P

... 1,5,0 P

... 3,6 T

... 2,0,0 P

... 2 T

... 1,2 T

... 1 P

... 1 P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

C/V

1/1

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1/14

Sheet Ref.

2,7

Observer

21

Comb/Spare

21

RETURN to

69 Lanark

St, Coolbinia,

WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer R. JAENSCH phone _____

Address _____

Wetland Nature Reserve name VASSE ESTUARY postcode _____

P.W.No. 229 Part No. 1 (e+f)

Date of Survey 21.0.1985 Start/Finish 08.00 Sheet 1 of 1

09.00 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count ↓ H O V	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 <u>Apel</u>	<u>1,0,6</u>	<u>20</u>	<u>P</u>					
2 <u>LpIC</u>	<u>1,0,0</u>	<u>1</u>	<u>P</u>					
3 <u>Wfth</u>	<u>1,8,8</u>	<u>30</u>	<u>P</u>					
4 <u>GrEE</u>	<u>1,8,7</u>	<u>3</u>	<u>P</u>					
5 <u>SukT</u>	<u>1,8,0</u>	<u>50</u>	<u>P</u>					
6 <u>YbSL</u>	<u>1,8,2</u>	<u>1</u>	<u>P</u>					
7 <u>Swan</u>	<u>2,0,3</u>	<u>100</u>	<u>P</u>					
8 <u>Shel</u>	<u>2,0,7</u>	<u>200</u>	<u>P</u>					
9 <u>PaBD</u>	<u>2,0,8</u>	<u>200</u>	<u>P</u>					
10 <u>GyTL</u>	<u>2,1,1</u>	<u>500</u>	<u>P</u>					
11 <u>Shov</u>	<u>2,1,2</u>	<u>50</u>	<u>P</u>					
12 <u>Hard</u>	<u>2,1,5</u>	<u>1</u>	<u>P</u>					
13 <u>ManD</u>	<u>2,0,2</u>	<u>5</u>	<u>P</u>					
14 <u>RNth</u>	<u>1,9,2</u>	<u>3</u>	<u>P</u>					
15 <u>Coot</u>	<u>0,5,9</u>	<u>200</u>	<u>P</u>					
16 <u>BwSt</u>	<u>1,4,6</u>	<u>30</u>	<u>P</u>					
17 <u>ComS</u>	<u>1,5,7</u>	<u>1</u>	<u>P</u>					
18 <u>Gank</u>	<u>1,5,8</u>	<u>3</u>	<u>P</u>					
19 <u>SilP</u>	<u>1,2,5</u>	<u>100</u>	<u>P</u>					
20								

Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

1,1,6

Sheet Ref.

7,0

Observer

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

RAOU

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Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer R. JAENSCH phone _____
Address _____

Wetland Nature Reserve name VASSE-WONNERUP postcode _____
P.W.No. 229 Part No. 1 Total for sev. sections _____

Date of Survey 09/10/1981 Start/Finish 17.00/17.30 Sheet 1 of 1
...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X.
5. Used a boat (B)? If not, put an X.

Comments:

SPECIES

English Name abbrevn. (4 letters) RAOU Atlas No.

1 Shov 2.1.2

2 Shiel 2.0.7

3 Swan 2.0.3

4 GrtE 1.8.7

5 GtE 2.1.1

6 ParBD 2.0.8

7 RNTM 1.9.2

8 ComS 1.5.7

9 ~~Shov~~

10 Bwst 1.4.6

11

12

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19

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Total number of birds recorded (last digit)

T or P: Total or Partial Count

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1.17

Sheet Ref.

7.0

Observer

Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer G. K. KNEEBONE phone 294 1472

Address 72 VIVERRA RD SWANVILLE

Wetland Nature Reserve name WONNERUP/VASSE

P.W.No. 229 Part No. F

Date of Survey 29/1/1983 Start/Finish 15.30/17.10 Sheet 1 of 2

eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Weather: Fine, windy, 20 knt southerly blowing, water very choppy in open areas.

Water Levels: At nominal HWM - much lower (~1m) in estuary south side of locks, although some tidal influence here.

Bird Counts:

Swan - Nos. inc. ~ 30% immature birds inc. clutch of 4 at ~ 3wks age.

Pa Bd - clutch 5, 3wks

Noticeable increase in populations and

SPECIES		Total number of birds recorded (last digit ↓)	Tor P. To Partial Count	BREEDING: Tick ✓ if these categories were observed...					C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevtn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn		
1 Mus D	21.7	38	P							
2 Shel	20.7	30	P							
3 Pa Bd	20.8	109	P				✓			
4 Grt E	18.7	7	P							
5 Snk I	18.0	4	P							
6 Swan	20.3	95	P				✓			
7 Gy TL	21.1	83	P							
8 Hard	21.5	3	P							
9 Sl GL	12.5	60	P							
10 Wf Hw	18.8	15	P							
11 Sac I	17.9	3	P							
12 Gre C	09.6	5	P							
13 Pie C	09.9	5	P							
14 A Pel	10.6	5	P							
15 Coot	05.9	2	P							
16 Av Gb	06.1	2	P							
17 LPi C	10.0	2	P							
18 Uliwr	83.5	3	P							
19 Com S	15.7	1	P							
20 Grank	15.8	1	P							

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

OFFICE USE

229

P.W.No.

1

Part

1, 1, 8

Sheet Ref.

21

Observer

Comb. / Spare

RETURN to 69 Lanark St., Coolbinia, WA, 6050.

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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VINEASH RD SWANVIEW

Wetland Nature Reserve name WONNERUP / VASSE

P.W.No. 229 Part No. (1) (=6)

Date of Survey Start/Finish Sheet of
0.40.3 1.9.8.2 0.8.0.0 0.9.0.0 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity.
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

REFER MAP FOR EXTENT OF WATER
BIRDS WELL DISTRIBUTED ALONG AVAILABLE
WATER

{ uiwor = originally ComS }

SPECIES

English
Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

Tor P:
Total
Partial
Count
Count

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Swan 20.3

... 2 P

2 Shal 20.7

... 300 P

3 Cgg Te 21.1

... 20 P

4 Pa BD 20.8

... 20 P

5 Sgr E. 1.8.7

... 1.5 P

6 WFTm 1.8.8

... 1.4 P

7 Cur S 1.6.1

... 4 P

8 Com S 1.5.7

... 1 P

9 Recap 1.4.3

... 40 P

10 uiwor 8.3.5

... 9.0 P

11

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12

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Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

22.9

P.W.No.

1

Part

1.1.9

Sheet Ref.

21

Observer

1

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

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Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer Peter LAMBERT phone _____Address Wildlife Officer postcode _____Wetland Nature Reserve name VASSE ESTUARYP.W.No. 229 Part No. 1 At Alba R. MouthDate of Survey 20091984 Start/Finish _____ Sheet of _____

...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity.
4. Used a telescope (T)? If not, put an X.
5. Used a boat (B)? If not, put an X.

Comments:

5 Gylt juvs.
Swan 63 cygnets

SPECIES

English
Name
abbrevia.
(4 letters)RAOU
Atlas
No.Total
number
of birds
recorded
(last digit)Tor P:
Total
or Partial
Count
↓ HOBREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

1 Dart 1.0.1

... 2 P

2 Gylt 2.1.1

... 200 P

3 Shov 2.1.2

... 1.5 P

4 Mand 2.0.2

... 4 P

5 Swan 2.0.3

... 3.8.2 P

6 Sigt 1.2.5

... 8 P

7 PaBD 2.0.8

... 21 P

8 Hurd 2.1.5

... 2 P

9 Sact 1.7.9

... 9 P

10 GME 1.8.7

... 6 P

11 LPIC 1.0.0

... 1.0 P

12 Coot 0.5.9

... 1.00 P

13 LBC 0.9.7

... 1.9 P

14 Apel 1.0.6

... 2 P

15 Shel 2.0.7

... 3 P

16 Sukt 1.8.0

... 1 P

17 Wfln 1.8.8

... 2 P

18 RNth 1.9.2

... 2 P

19 Matta 2.1.9

... 1 P

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...

Use the
Wetland Map on
the back of
this form
to mark...

C/V

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1. approximate
positions of
any active
nests found
(SN, e, yn).2. the route
of your
survey,3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

1.2.0

Sheet Ref.

1.4.5

Observer

Comb./Spare

RETURN to

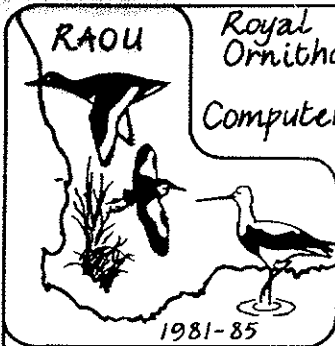
the

Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



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Ornithologists Union

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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone _____

Address _____

Wetland Nature Reserve name WONNERUP ESTUARY postcode _____

P.W. No. 229 - Part No. 1

Date of Survey 0.1.0.3.1.2.8.6 Start/Finish 1.4.3.0.1.5.0.0 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES	
English Name abbrev ⁿ (4 letters)	RAOU Atlas No.

1 ComS 15.7

2 Pie C 09.9

3 Mus D 21.7

4 APel 1.06

5 LPic 10.0

6 PaBd 20.8

7 GyTB 21.1

8 BwSt 14.6

9 RenS 16.2

10 Gank 1.58

11 _____

12 _____

13 _____

14 _____

15 _____

16 _____

17 _____

18 _____

19 _____

20 _____

Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓
---	----------------------------------

2 T

2 T

1 T

1 T

4 T

9.0 T

1.8 T

2 T

1.8 T

1 T

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

1.2.1

Sheet Ref.

2.1

Observer

21

Comb./Spare

RETURN to

Field Officer:

(address is in

W.A. Bird Notes)

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union FINAL
Computer Form for use in the Survey of
WATERBIRD USAGE
of Wetland Nature Reserves
vested in the Western Australian Wildlife
Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone _____
Address 72 VINEASH RD SWANVIEW.
postcode 6056.
Wetland Nature Reserve name WONNERUP
P.W.No. 229. Part No. j
Date of Survey Start/Finish Sheet 1 of 1.
0.1.03.19.86 15.0.0.1.6.0.0...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Numbers are estimates based on long distance obs. for 'order of' count only.

Udiwr numbers observed by flights of waters ~~in~~ along channel
∴ could have been more on ground/water.

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓ HOY	BREEDING: Tick ✓ if these categories were observed...				
English Name abbrev'n. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn
1 <u>Udik</u>	<u>838</u>	<u>1,000</u>	<u>T</u>					
2 <u>Udiwr</u>	<u>835</u>	<u>500</u>	<u>T</u>					
3								
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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

1.22

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to the Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Ornithologists Union

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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 294 1472

Address 72 VIVEASH RD SWANVILLE

postcode 6056

Wetland Nature Reserve name VASSE ESTUARY

P.W.No. 229 Part No. 'e'

Date of Survey Start/Finish Sheet L of L

02/03/1986 0900 1130 eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ B

Comments: Conditions: 25°C, light westerly winds.

Heavy concentrations of Shel along southern perimeter.

Other duck and waders more uniformly distributed in section area.

All waders feeding actively on exposed wet mud & in water up to 10cm deep.

75% of Pa Bd, Gy TL & Coot actively feeding in water to varying depths

20% of Shel ditto.

WSE immature.

SPECIES

English Name
RAOU Atlas
abbrevia. No.
(4 letters)

Total
number of birds
recorded
(last digit)

T or P:
Total or Partial
Count
↓ HO

BREEDING:
Tick ✓ if these
categories were
observed...

1 Shel 2.07

250.0 T

2 Pa Bd 2.08

350 T

3 Gy TL 2.11

450 T

4 Pie C 0.99

16 T

5 Coot 0.59

30.0 T

6 Cur S 1.61

56.5 P

7 Ren S 1.62

50.0 P

8 Rca P 1.43

12.0 P

9 Sat S 1.63

60 P

10 Buw St 1.46

8.0 T

11 Ba St 1.47

6 T

12 Rn AV 1.48

16 T

13 Swan 2.03

32 T

14 WSE 2.26

1 T

15

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Use the
Wetland Map on
the back of
this form
to mark...

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1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

123

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 2941472
Address 72 VIVEASH RD SWANVIEW

Wetland Nature Reserve name VASSE ESTUARY
P.W.No. 229 Part No. f

Date of Survey 02.03.1986 Start/Finish 1230/1430 Sheet L of L
eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

See separate map of whole of Sec 'f'
(attached)
Waders actively feeding

Li Crake or Rail - too far to identify truly
midway between locks
and western extremity
of lagoon area.

SPECIES

English Name
RAOU Atlas
abbrevtn. No.
(4 letters)

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
Count
H or V

BREEDING:
Tick ✓ if these
categories were
observed...

1 Wfhn 188

3 P

2 Swan 203

8 P

3 Shel 207

65 P

4 Coot 059

197 P

5 Gank 158

2 P

6 Lens 162

53 P

7 Bo St 146

24 P

8 Rcap 143

2 P

9 Bla G 152

6 P

10 Gry P 136

2 P

11 Gy TB 211

60 P

12 Pa Bd 208

65 P

13 LPi C 100

2 P

14 Dart 101

6 P

15 Li Wr 835

3 P

16 Com S 157

1 P

17 Pie C 099

12 P

18 A Pel 106

1 T

19 UCr a 822

1 T

20

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

124

Sheet Ref.

21

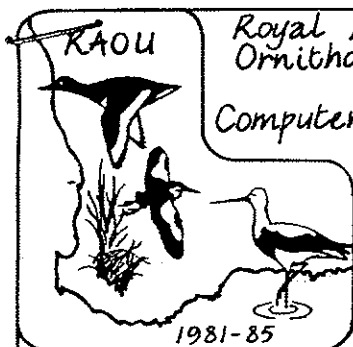
Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RK MASTERS phone 097 272002
Address PO BOX 162 CAPEL

Wetland Nature Reserve name WASSE/WONNERUP ESTUARIES
P.W.No. Part No.

Date of Survey 3.0.09.1985 Start/Finish 09.30.10.45 Sheet of
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

SPECIES
English Name
abbrevn.
(4 letters)

RAOU Atlas
No.

Total
num. or
of birds
recorded
(last digit)

Tor P.
Total
or Partial
Count
✓ HOY

BREEDING:
Tick ✓ if these
categories were
observed...

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

22.9

P.W.No.

1

Part

1.25

Sheet Ref.

2.7

Observer

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union FINAL
Computer Form for use in the Survey of
WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer Peter Lambert phone _____
Address _____

Wetland Nature Reserve name Wonnerup Estuary postcode _____
P.W.No. _____ Part No. _____

Date of Survey 14/03/1987 Start/Finish _____ Sheet _____ of _____
...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ D
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☐
4. Used a telescope (T)? If not, put an X. ☐
5. Used a boat (B)? If not, put an X. ☐

Comments:

'Dry' - no waterbirds.

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓ HO	BREEDING: Tick ✓ if these categories were observed...				C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrev'n (4 letters)	RAOU Atlas No.			dd	DR	SN	e		
1									1. approximate positions of any active nests found (SN, e, yn). 2. the route of your survey; 3. any other relevant information.
2									
3									
4									
5									
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16									
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19									
20									

OFFICE USE

229
P.W.No.
1
Part
1.2.6
Sheet Ref.
1.5.3
Observer
21
Comb./Spare

RETURN to
Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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1981-85

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Ornithologists Union

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WATERBIRD USAGE

of
Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

FINAL

Observer Peter Lambert phone _____
Address 14 Queen St, Busselton post code _____
Wetland Nature Reserve name The Deadwater
P.W.No. _____ Part No. _____
Date of Survey 14 03 1987 Start/Finish _____ Sheet _____ of _____
14 03 1987 ...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES		Total number of birds recorded (last digit ↓)	Total or Partial Count ↓ HDV	BREEDING: Tick ✓ if these categories were observed...					C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn		
1 Shol	207	1	P							1. approximate positions of any active nests found (SN, e, yn). 2. the route of your survey. 3. any other relevant information. OFFICE USE <u>207</u> P.W.No. _____ Part _____ <u>127</u> Sheet Ref. <u>153</u> Observer <u>211</u> Comb/Spare _____ RETURN to the Field Officer: (address is in 'W.A. Bird Notes')
2 CrST	112	1	P							
3 Sig	125	4	P							
4 Dart	101	1	P							
5										
6										
7										
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Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer Peter Lambert phone _____

Address 14 Queen St, Brusselton postcode _____

Wetland Nature Reserve name Wonnerup Inlet

P.W.No. _____ Part No. _____

Date of Survey 14.03.1987 Start/Finish _____ Sheet _____ of _____

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ B

Comments:

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...	Use the Wetland Map on the back of this form to mark...
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd DR SN e yn	
1 PaBD	208	2 P			c/v
2 GyT	211	3 P			
3 WpTh	188	1 P			
4 SiGT	125	26 P			
5 LPiC	100	1 P			
6 GrT	115	25 P			
7 Cast	112	4 P			
8 P.Oy	130	1 P			
9					
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OFFICE USE

229

P.W.No.

1

Part

128

Sheet Ref.

153

Observer

21

Comb./Spare

RETURN to Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer

Peter Lambert

phone

Address

14 Queen St, Busselton

postcode

Wetland Nature
Reserve name

Matburp Creek

P.W.No.

229

Part No.

Date of Survey

Start/Finish

Sheet of

14.03.1987

...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ N
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES
English
Name
abbrev'n
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
↓ HO

BREEDING:
Tick ✓ if these
categories were
observed...

Use the
Wetland Map on
the back of
this form
to mark...

C/V

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☐ ☐
☐ ☐
☐ ☐
☐ ☐

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey;

3. any other
relevant
information.

OFFICE USE

229

P.W.No.

1

Part

129

Sheet Ref.

153

Observer

21

Comb/Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

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Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer Peter Lambert phone _____

Address 14 Queen St, Busselton

postcode _____

Wetland Nature Reserve name Abba River

P.W.No. 229 Part No. _____

Date of Survey _____ Start/Finish _____ Sheet _____ of _____

14.03.1987 _____ eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

The Abba River is reduced to a series of pools at this time of year. and

SPECIES
English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit)

T or P:
Total
or Partial
Count
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...
dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

130

Sheet Ref.

153

Observer

21

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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1981-85

Observer P. Lambert phone _____

Address 14 Queen St. Busselton postcode _____

Wetland Nature Reserve name Vasse Estuary

P.W. No. 229 Part No. _____

Date of Survey 14.03.1987 Start/Finish _____ Sheet _____ of _____

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Most of Vasse Estuary was dry during the survey. Only a portion at the far eastern end held water.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...					C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn		
1 Shel	207	482	P							1. approximate positions of any active nests found (SN, e, yn).
2 PaBD	208	37	P							2. the route of your survey,
3 GyTI	211	206	P							3. any other relevant information.
4 Adel	100	1	P							
5 Sig	125	4	P							
6 SacE	179	2	P							
7 YbSI	182	3	P							
8 BwST	146	90	P							
9 Bast	147	40	P							
10 PnAr	148	10	P							
11 PieC	099	52	P							
12 LPiC	100	28	P							
13 Gawk	158	22	P							
14 ShTS	163	30	P							
15 RemS	162	110	P							
16										
17										
18										
19										
20										

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

OFFICE USE

229

P.W. No.

1

Part

131

Sheet Ref.

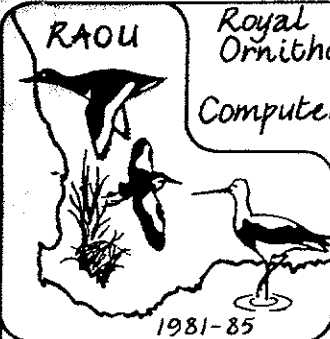
153

Observer

21

Comb./Spare

RETURN to
Field Officer:
(address is in
'W.A. Bird Notes')



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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 272 8223
Address 5 WATSON PL. MAYLANDS

Wetland Nature Reserve name WONNERUP ESTUARY
P.W. No. 229 Part No. 7 "j" "a".

Date of Survey 30/12/1986 Start/Finish 15.30/16.30 Sheet 1 of 1
eg. 1.00pm = 1300.

- Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
- Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A
- Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
- Used a telescope (T)? If not, put an X. ☒ X
- Used a boat (B)? If not, put an X. ☒ X

Comments:

Ultr probably PaBd & GyTl in ratio
40% 60%.

Waders. More wader habitat here than in Vasse sections but unable to discern if numbers present from distance and positioning obs. (other than those listed).

Ultr Sm. waders in flight, did not settle.

SPECIES	
English Name abbrevn (4 letters)	RAOU Atlas No.

1 GtE 18.7

2 PreC 09.9

3 Swan 203

4 APeI 10.6

5 Sigl 12.5

6 Shel 20.7

7 GyTl 21.1

8 PaBd 20.8

9 RNAV 14.8

10 SnkI 18.0

11 BuSt 14.6

12 Ultr 8.38

13 Ultr 8.35

14

15

16

17

18

19

20

Total number of birds recorded (last digit)	T or P: Total or Partial Count
---	--------------------------------

40 T

1.50 T

1.38 T

45 T

270 T

3.00 T

3.50 P

220 P

9.00 T

50 P

600 T

500 T

100 P

BREEDING: Tick ✓ if these categories were observed...			
dd	DR	SN	e yn

Use the Wetland Map on the back of this form to mark...

CIV

- approximate positions of any active nests found (SN, e, yn).
- the route of your survey.
- any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

1.32

Sheet Ref.

21

Observer

211

Comb./Spare

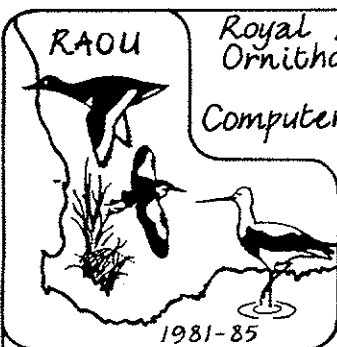
RETURN to

the Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 272 8223

Address 5 WATSON PLACE MAYLANDS

Wetland Nature Reserve name VASSE ESTUARY postcode 6051

P.W.No. 229 Part No. 'B'

Date of Survey 30/12/1986 Start/Finish 09.00/10.30 Sheet 1 of 1
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Only inner water habitat available - water level appears to be sustaining well.

SPECIES	
English Name abbrev'n (4 letters)	RAOU Atlas No.

1 PaBd 20.8

2 GyTl 21.1

3 Swan 20.3

4 APel 10.6

5 BuSt 14.6

6 WfHu 18.8

7 Shel 20.7

8 GrtE 18.7

9 Cast 11.2

10 SacI 17.9

11 SnkI 18.0

12 BarG 15.3

13 Gank 15.8

14 Rcap 14.3

15 SigL 12.5

16 BaSt 14.7

17 LPeC 10.0

18 LiGd 52.2

19

20

Total number of birds recorded (last digit v)

600 T

900 T

615 T

2 T

500 T

50 T

300 T

28 T

3 T

2 T

8 T

2 T

5 P

4 P

850 T

70 T

3 T

1 P ✓

BREEDING: Tick ✓ if these categories were observed...

dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

134

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 2728223

Address 5 WATSON PLACE MAYLANDS.

Wetland Nature Reserve name VASSE ESTUARY postcode 6051

P.W.No. 229 Part No. 'a'

Date of Survey 30/12/1986 Start/Finish 10.30/1.1.5 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Only relatively small areas of suitable habitat for "small" waders - accounts for few wader numbers (applies to "normal" high wader count areas - a, b, e,).

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrevn. (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn
1 Shel	20.7	300	T				
2 GyTL	21.1	650	T				
3 PaBd	20.8	850	T				
4 WfHu	18.8	17	T				
5 Swan	20.3	65	T				
6 GrtE	18.7	2	T				
7							
8							
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Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

135

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to 69 Lanark St, Coolbinia, WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 272 8223

Address 5 WATSON PL. MAYLANDS postcode 6051

Wetland Nature Reserve name VASSE ESTUARY.

P.W.No. 229 Part No. 9

Date of Survey 29/12/1986 Start/Finish 11.30/1.30.0 Sheet 1 of 1

...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. X

Comments:

Section not completely surveyed (see map)

Gytl - Breeding 5yng ~ 3wks (Abba R.)

Extensive aquatic weed growth (species iii) throughout Abba R.

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...				C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrev'n (4 letters)	RAOU Atlas No.			dd	DR	SN	e		
1 Gytl	2.1.1	350	P		✓				1. approximate positions of any active nests found (SN, e, yn).
2 PaBd	2.0.8	273	P						2. the route of your survey;
3 ARel	1.0.6	1	P						3. any other relevant information.
4 WfHn	1.8.8	14	P						
5 Swan	2.0.3	1	P						
6 LPic	1.0.0	92	P						
7 Shel	2.0.7	446	P						
8 DuMo	0.5.6	2	P						
9 MaAD	2.0.2	24	P						
10 Coot	0.5.9	12	P						
11 LiBC	0.9.7	24	P						
12 GreC	0.9.6	1	P						
13 Hard	2.1.5	12	P						
14 Augb	0.6.1	6	P						
15 ChTL	2.1.0	1	P						
16 GrCE	1.8.7	3	P						
17 SnKI	1.8.0	9	P						
18									
19									
20									

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

OFFICE USE

229

P.W.No.

1

Part

136

Sheet Ref.

21

Observer

211

Comb. / Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

RAOU Royal Australasian Ornithologists Union FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 2728223

Address 5 Watson Pt. Maylands postcode 6051

Wetland Nature Reserve name WONNERUP ESTUARY

P.W.No. 229 Part No. 'H'

Date of Survey Start/Finish Sheet 1 of 1

30.1.2.1986 15.0.0 15.3.0 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W

2. Put an "A" if you are confident that you found all species present (otherwise put N). N

3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. X

4. Used a telescope (T)? If not, put an X. X

5. Used a boat (B)? If not, put an X. X

Comments:

Minimal bird activity on and around water. Water sufficiently calm to contain abundant sea species e.g. whiting

SPECIES		Total number of birds recorded (last digit ↓)	Tor P: Total or Partial Count ↓ HO ✓	BREEDING: Tick ✓ if these categories were observed...				C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrev'n (4 letters)	RAOU Atlas No.			dd	DR	SN	e		
1 GtE	1,8,7	2	P						1. approximate positions of any active nests found (SN,e,yn).
2 LaBd	2,0,8	6	P						2. the route of your survey;
3 Wfth	1,8,8	2	P						3. any other relevant information.
4 Dart	1,0,1	1	P						
5 Gank	1,5,8	1	P						
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

OFFICE USE

229

P.W.No. 1

Part 13.7

Sheet Ref. 2.1

Observer 21

Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone 272 8223

Address 5 Watson Place Warrandyte

postcode 6051

Wetland Nature Reserve name WONNERUP ESTUARY

P.W.No. 229 Part No. 1

Date of Survey 29/12/1986 Start/Finish 1.50.00/1.53.00 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES		Total number of birds recorded (last digit ↓)	T or P: Total or Partial Count ↓	BREEDING: Tick ✓ if these categories were observed...					C/V	Use the Wetland Map on the back of this form to mark...
English Name abbrev'n (4 letters)	RAOU Atlas No.			dd	DR	SN	e	yn		
1 WfHn	1,8,8	...	8	T						
2 GrE	1,8,7	...	1	T						
3 APB	1,0,6	...	1	T						
4 Swan	2,0,3	...	1	T						
5 PaBd	2,0,8	...	1	T						
6 Gunk	1,5,8	...	2	T						
7 LpC	1,0,0	...	1	T						
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

OFFICE USE

229

P.W.No.

1

Part

138

Sheet Ref.

21

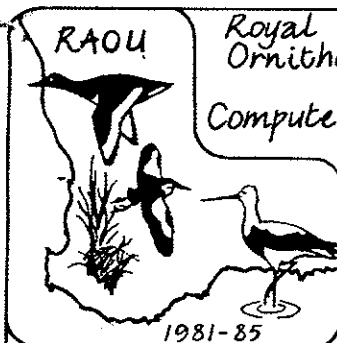
Observer

21

Comb./Spare

RETURN to the Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Ornithologists Union

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WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone 2728223
Address 5 WATSON PL. MAYLANDS

Wetland Nature Reserve name VASSE ESTUARY post code 6051
P.W.No. 229 Part No. 'e'

Date of Survey 3.01.21.98 Start/Finish 07.00-09.00 Sheet 1 of 2
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. X
5. Used a boat (B)? If not, put an X. B

Comments:

Extensive growth of aquatic - Ruppia
providing food for duck sps, Swan, Gull
- all actively feeding.

SPECIES		Total number of birds recorded (last digit)	T or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed...			
English Name abbrevn (4 letters)	RAOU Atlas No.			dd	DR	SN	e yn
1 Swan	203	530	T				
2 Abel	106	40	T				
3 GtE	187	32	T				
4 WfHn	188	47	T				
5 SacI	179	5	T				
6 BwSt	146	294	T				
7 Shel	207	150	T				
8 PaBd	208	80	T				
9 GyTL	211	370	T				
10 RnAv	148	95	T				
11 BaSt	147	25	T				
12 ShtS	163	100	P				
13 CurS	161	50	P				
14 YbSL	182	7	T				
15 Cast	112	5	T				
16 Ligd	522	1	P				
17 Maha	219						
18 Gank	158	4	P				
19 SnKI	180	58	T				
20 Maha	219	1	T				

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229
P.W.No.
1
Part
139
Sheet Ref.
21
Observer
31
Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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WATERBIRD USAGE

of
Wetland Nature Reserves

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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone _____

Address _____

Wetland Nature Reserve name VASSE ESTUARY post code _____

P.W. No. 229 Part No. 'e'

Date of Survey 30/2/1986 Start/Finish _____ Sheet 2 of 2

_____ eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☐
4. Used a telescope (T)? If not, put an X. ☐
5. Used a boat (B)? If not, put an X. ☐

Comments:

SPECIES

English Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Total
number
of birds
recorded
(last digit ↓)

T or P:
Total
or Partial
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

140

Sheet Ref.

21

Observer

31

Comb./Spare

RETURN to
69 Lanark
St., Coolbinia,
WA, 6050.

1 Shov 212

5 P

2 Coot 059

1050 T

3 Sigl 125

200 T

4 MusD 217

6 P

5 LPiC 100

14 T

6 GreT 115

1 P

7

8

9

10

11

12

13

14

15

16

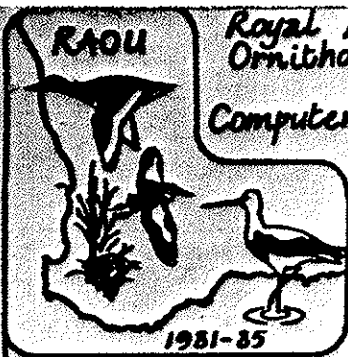
17

18

19

20

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B.K. KNEEBONE phone _____

Address _____

Wetland Nature Reserve name VASSE ESTUARY postcode _____

P.W.No. 229 Part No. E

Date of Survey 0.6.08 Start/Finish 1.1.3.0 Sheet 1 of 1

1.9.8.7 1.2.3.0 eg. 100pm = 1300.

- 1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
- 2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
- 3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
- 4. Used a telescope (T)? If not, put an X. X
- 5. Used a boat (B)? If not, put an X. X

Comments:

Coot In one large raft
GyTL & PaBd most in lower reaches
of Abba R.
DuMo On Abba R.

FINAL

SPECIES	English Name	RAOU Atlas No.
1	<u>Shov</u>	<u>2.1.2</u>
2	<u>Swan</u>	<u>2.0.3</u>
3	<u>PaBd</u>	<u>2.0.8</u>
4	<u>Coot</u>	<u>0.5.9</u>
5	<u>GyTL</u>	<u>2.1.1</u>
6	<u>Shel</u>	<u>2.0.7</u>
7	<u>DuMo</u>	<u>0.5.6</u>
8	<u>MusD</u>	<u>2.1.7</u>
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Total number of birds recorded (last digit)	7 or 8 Total or Partial Count
<u>2</u>	<u>P</u>
<u>18</u>	<u>P</u>
<u>4</u>	<u>P</u>
<u>120</u>	<u>P</u>
<u>120</u>	<u>P</u>
<u>12</u>	<u>P</u>
<u>1</u>	<u>P</u>
<u>2</u>	

BREEDING: Tick ✓ if these categories were observed...
<u>dd</u> <u>DR</u> <u>SN</u> <u>e</u> <u>yn</u>

Use the Wetland Map on the back of this form to mark...

- 1. approximate positions of any active nests found (SN, e, yn).
- 2. the route of your survey,
- 3. any other relevant information.

OFFICE USE

229
P.W.No.
1
Part
142
Sheet Ref.
21
Observer
21
Comb./Spare

RETURN to Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer B. K. KNEEBONE phone _____

Address _____

Wetland Nature Reserve name WONNERUP ESTUARY postcode _____

P.W. No. 229 Part No. I

Date of Survey 0.6.0.8 Start/Finish 13.00 Sheet 1 of 1

19.87 13.30 eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ A
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Water flowing seawards through Locks.

English Name abbrevn (4 letters)

1 GrTE 1.87

2 GyTL 2.1.1

3 LPIC 1.0.0

4 WPHH 1.8.8

5 YBSL 1.8.2

6 SiGL 1.2.5

7 Pa Bd 2.0.8

8 Swan 2.0.3

9 Snel 2.0.7

10 Shov 2.1.2

11 Mus D 2.1.7

12 _____

13 _____

14 _____

15 _____

16 _____

17 _____

18 _____

19 _____

20 _____

RAOU Atlas No.

1 1 P

2 1.8 P

3 4 P

4 1 P

5 2 P

6 6 P

7 1.6 P

8 2.6 P

9 6 P

10 2 P

11 4 P

12 _____

13 _____

14 _____

15 _____

16 _____

17 _____

18 _____

19 _____

20 _____

1 or 2 Total or Partial Count

1 P

1.8 P

4 P

1 P

2 P

6 P

1.6 P

2.6 P

6 P

2 P

4 P

BREEDING. Tick ✓ if these categories were observed...

dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

1.43

Sheet Ref.

21

Observer

21

Comb./Spare

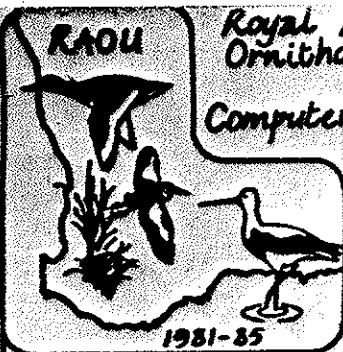
RETURN to

Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer B. K. KNEEBONE phone 272 8223

Address 5 Watson Pl Macquarie

postcode 6051

Wetland Nature Reserve name WONNERUP ESTUARY

P.W. No. 229 Part No. J

Date of Survey 06/08/1987 Start/Finish 14.00/14.30 Sheet 1 of 1

eg. 1.00pm - 1.30pm

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ W
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: "Swan Lake" section only
surveyed from high ground
~ 500m away on seaward side.

Large colony of breeding Swan over ~ 1km
on Swan Lake and perimeter.

111 Nests occupied with sitting Swan, of
about 130 total nests available - difficult
to determine how many, if any, of remainder had
been renovated this year. No young observed

2FEUE2
English
Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

local
number
of birds
recorded
(last digit)

1 or 2
Total
or Partial
Count
Count
H or L

DREEDING
Tick ✓ if these
categories were
observed...
dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

CLV

III

II

II

I

II

II

II

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II

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II

II

II

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II

II

II

II

II

II

II

II

II

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey,

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

J

Part

144

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to

Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

FINAL

Observer B. K. KNEEBONE phone _____

Address _____

Wetland Nature Reserve name VASSE ESTUARY postcode _____

P.W.Nr. 229 Part Nr. 9

Date of Survey 06/08/1987 Start/Finish 12.4.0/13.0.0 Sheet 1 of 1

06/08/1987 12.4.0/13.0.0...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A
3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

English Name abbrevn. (4 letters)	RAOU Atlas No.	Total number of birds recorded (last digit)	1 or P: Total or Partial Count	BREEDING: Tick ✓ if these categories were observed... dd DR SN e yn	Use the Wetland Map on the back of this form to mark...
1 GyFL	21.1	54	P		
2 Shel	2.0.7	2.6	P		
3 WfHn	1.8.8	2	P		
4 Swan	2.0.3	2	P		
5 Man Δ	2.0.2	8	P		
6 Pa Bel	2.0.8	1.6	P		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

OFFICE USE

229

P.W.Nr.

9

Part

145

Sheet Ref.

21

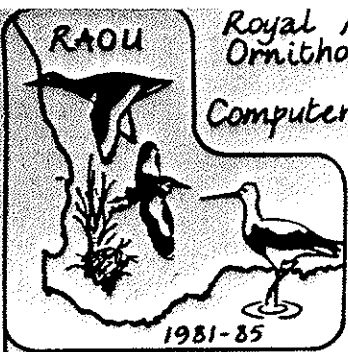
Observer

211

Comb./Spare

RETURN to Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RT et al. phone
Address (Doug Watkins, Phil Jennings)
postcode

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY
P.W.No. 229 Part No. 1

Date of Survey 15/01/1987 Start/Finish 07.20 09.00 Sheet of
...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments:

Vasse Estuary only,
(west & main basin).

English Name
abbrevn.
(4 letters)

RAOU Atlas
No.

local number
of birds
recorded
(last digit)

Total
or Partial
Count
↓ HO

DREEDING
Tick ✓ if these
categories were
observed...
dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

146

Sheet Ref.

70

Observer

Comb/Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

1 widk 83.8

6.00

2 BwSt 14.6

1.10.0

3 Swan 20.3

1.12

4 GrtE 18.7

1.7

5 Gank 15.8

4.1

6 Bast 14.7

1.00

7 BaLG 15.3

3

8 RnkV 14.8

2.00

9 GrtKn 16.5

1.2

10 Sigl 12.5

5.00

11 ShlS 16.3

1

12 LotS 9.6.5

4

13 YbSl 18.2

1.0

14 Wpfln 18.8

1.00

15

16

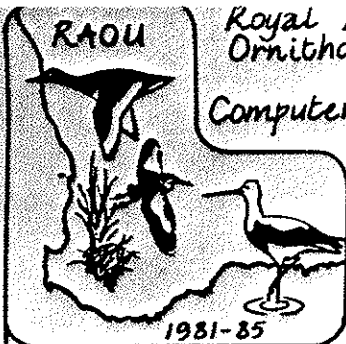
17

18

19

20

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

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Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves

vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RJ phone _____

Address _____ postcode _____

Wetland Nature Reserve name VASSE - WONNERUP ESTUARY

P.W.No. 229 Part No. 1

Date of Survey 28/12/1986 Start/Finish _____ Sheet 1 of 3

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Results of surveys on
27/12 ~ 28/12 (diff. areas).

All areas covered excepted
Swan Lake & South
Wonnerup.

SPECIES
English
Name
abbrevn.
(4 letters)

RAOU
Atlas
No.

Local
number
of birds
recorded
(last digit)

1 or
Total
or Partial
Count
↓ HO

BREEDING
Tick ✓ if these
categories were
observed...
dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

147

Sheet Ref.

70

Observer

111

Comb./Spare

RETURN to
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

1 AuGlb 0.6.1

2 Apel 1.0.6

3 PieC 0.9.9

4 LiBC 0.9.7

5 LPiC 1.0.0

6 WpHw 1.8.8

7 GrLE 1.8.7

8 RNth 1.9.2

9 SacI 1.7.9

10 SukI 1.8.0

11 YbSl 1.8.2

12 Swan 2.0.3

13 Shel 2.0.7

14 PaBD 2.0.8

15 GyTL 2.1.1

16 Shov 2.1.2

17 PeaD 2.1.3

18 Hard 2.1.5

19 Mand 2.0.2

20 Matta 2.1.9

...5

...120

...130

...80

...40

...250

...115

...5

...3

...500

...58

...1200

...1300

...4000

...9650

...260

...10

...22

...55

...3

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

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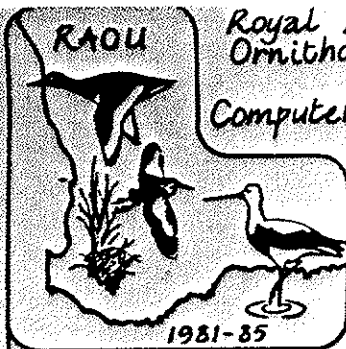
dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn

dd DR SN e yn



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RJ phone _____
Address _____

Wetland Nature Reserve name WASSE-WONNERUP ESTUARY
P.W.No. 229 Part No. 1

Date of Survey 28.12.1986 Start/Finish _____ Sheet 2 of 3
...eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. L
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: see sheet 1.

English Name
abbreviated
(4 letters)

RAOU Atlas
No.

Local number
of birds
recorded
(last digit)

Total
or Partial
Count
↓ HO

Tick ✓ if these
categories were
observed...
dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

148

Sheet Ref.

70

Observer

111

Comb./Spare

RETURN to
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

1 PuSn 05.8

3

2 Coot 05.9

25.00

3 ReaP 14.3

35

4 BfoP 14.4

1

5 BwSt 14.6

40.00

6 BaSt 14.7

10.0

7 RnAv 14.8

20.00

8 WooS 15.4

47

9 Gank 15.8

15.5

10 MarS 15.9

2

11 BlaG 15.2

8

12 BarG 15.3

5

13 GrKn 16.5

12

14 SlutS 16.3

35.0

15 PecS 9.7.8

1

16 RmS 16.2

2

17 LotS 9.6.5

13

18 CurS 16.1

10.0

19 SigI 12.5

120.0

20 Whit 11.0

1

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves

vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer RJ phone _____

Address _____ postcode _____

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY

P.W.No. 229 Part No. 1

Date of Survey 28/12/1986 Start/Finish _____ Sheet 3 of 3

...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: see sheet 1.

English Name abbreviated (4 letters)	RAOU Atlas No.
1 Cast	112
2 Ligd	522
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Local number of birds recorded (last digit ↓)	Total or Partial Count
15	
2	

DRILLING: Tick ✓ if these categories were observed...
dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

149

Sheet Ref.

7.0

Observer

111

Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer RJ phone _____

Address _____

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY postcode _____

P.W.No. _____ Part No. _____

Date of Survey 23/11/1986 Start/Finish _____ Sheet 1 of 2

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Results from searches of diff. areas on 22/11 & 23/11. & 24/11

Far western open water of Estuary and Vasse River outflow marshes.

SPECIES

English Name abbrevⁿ (4 letters) RAOU Atlas No.

- 1 HhGb 062
- 2 AuGb 061
- 3 APel 106
- 4 Dart 101
- 5 LiBC 097
- 6 LPic 100
- 7 Pcltn 189
- 8 WpHn 188
- 9 GrtE 187
- 10 RNAn 192
- 11 AusB 197
- 12 SacI 179
- 13 SntI 180
- 14 YbSL 182
- 15 Swan 203
- 16 Shel 207
- 17 PaBD 208
- 18 GylR 211
- 19 MusD 217
- 20 AnCk 049

Local number of birds recorded (last digit) 1 or Partial Count

- 1 2
- 2 2
- 3 8
- 4 2
- 5 5
- 6 3.5
- 7 1
- 8 7.1
- 9 2.5
- 10 1.0
- 11 1
- 12 7.9
- 13 3.0
- 14 1
- 15 15.0
- 16 35.0
- 17 4.00
- 18 48.5
- 19 1
- 20 5

DRIFTING: Tick ✓ if these categories were observed... dd DR SN e yn

- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

22.9

P.W.No.

1

Part

1.50

Sheet Ref.

70

Observer

11

Comb./Spare

RETURN to Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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South-West & Eucla Divisions.

Observer RJ phone _____
Address _____

Wetland Nature Reserve Name WASSE-WONNERUP ESTUARY postcode _____
P.W. No. 229 Part No. 1

Date of Survey 23/1/1986 Start/Finish _____ Sheet 2 of 2
eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ M
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: (see sheet 1)

English Name abbrevia. (4 letters)	RAOU Atlas No.	local number of birds recorded (last digit)	1 or Total or Partial Count HOV	BREEDING Tick ✓ if these categories were observed... dd DR SN e yn	Use the Wetland Map on the back of this form to mark... CIV
1 DuMo	05.6	2			
2 PuSu	05.8	6			
3 Coot	05.9	15			
4 LeGP	13.7	6			
5 ReaP	14.3	10			
6 BwSt	14.6	1020			
7 BaSt	14.7	2			
8 RnAv	14.8	90			
9 Gank	15.8	34			
10 GrKn	16.5	1			
11 SultS	16.3	193			
12 LotS	9.65	2			
13 Sigl	12.5	72			
14 Wwgt	1.09	16			
15 CasT	1.1.2	1			
16 LiGd	5.2.2	5			
17 CREW	5.24	1			
18 Wdk	8.38	1000			
19					
20					

OFFICE USE
P.W. No. 229
Part 1
Sheet Ref. 15.1
Observer 70
Comb/Spare 11

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU
1981-85

Royal Australasian
Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RJ et al. phone _____

Address (Tim Lane) postcode _____

Wetland Nature Reserve name VASSE - WONNERUP ESTUARY

P.W. No. 229 Part No. 1

Date of Survey 17/10/1986 Start/Finish _____ Sheet 1 of 2

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: Most open water areas covered in brief visits.
Not a fully thorough search.
Includes Swan Lake but not Vasse outflow.

SPECIES	English Name abbrevtn (4 letters)	RAOU Atlas No.	local number of birds recorded (last digit)	Total or Partial Count 1 or 1 H or V	Tick ✓ if these categories were observed...				C/V	Use the Wetland Map on the back of this form to mark...
					dd	DR	SN	e		
1. <u>Apel</u>	<u>1.0.6</u>		<u>4</u>							
2. <u>PieC</u>	<u>0.9.9</u>		<u>5</u>							
3. <u>LiBC</u>	<u>0.9.7</u>		<u>1</u>							
4. <u>LPiC</u>	<u>1.0.0</u>		<u>2</u>							
5. <u>WpHn</u>	<u>1.8.8</u>		<u>3</u>							
6. <u>GrtE</u>	<u>1.8.7</u>		<u>2.0</u>							
7. <u>SacI</u>	<u>1.7.9</u>		<u>2</u>							
8. <u>SukI</u>	<u>1.8.0</u>		<u>1.0</u>							
9. <u>YbSl</u>	<u>1.8.2</u>		<u>3</u>							
10. <u>Swan</u>	<u>2.0.3</u>		<u>1.0.5.5</u>		☒					
11. <u>Shel</u>	<u>2.0.7</u>		<u>2.8.0</u>		☒					
12. <u>PaBD</u>	<u>2.0.8</u>		<u>1.4.5</u>		☒					
13. <u>Cytl</u>	<u>2.1.1</u>		<u>1.0.5</u>		☒					
14. <u>Shov</u>	<u>2.1.2</u>		<u>2.2</u>							
15. <u>Hard</u>	<u>2.1.5</u>		<u>6</u>							
16. <u>Mand</u>	<u>2.0.2</u>		<u>3</u>							
17. <u>MusD</u>	<u>2.1.7</u>		<u>4</u>							
18. <u>Coot</u>	<u>0.5.9</u>		<u>1.0.0.0</u>							
19. <u>Balg</u>	<u>1.3.5</u>		<u>5</u>							
20. <u>ComS</u>	<u>1.5.7</u>		<u>2</u>							

OFFICE USE

229

P.W. No. 1

Part 1.5.2

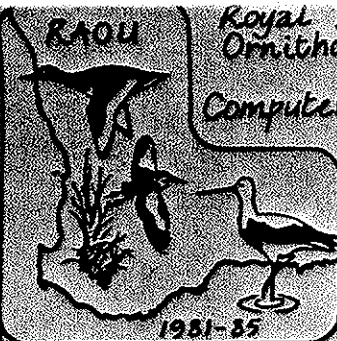
Sheet Ref. 70

Observer / / /

Comb/Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RT et al. phone _____

Address _____ postcode _____

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY

P.W. No. 229 Part No. 1

Date of Survey 17/10/1986 Start/Finish _____ Sheet 2 of 2

17/10/1986 ...eg. 1:00pm = 1300.

- 1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
- 2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
- 3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
- 4. Used a telescope (T)? If not, put an X. ☒ T
- 5. Used a boat (B)? If not, put an X. ☒ X

Comments: (see sheet 1).

English Name abbrevn. (4 letters)	RAOU Atlas No.	Local number of birds recorded (last digit ↓)	Total or Partial Count ↓ HOV	Tick ✓ if these categories were observed... dd DR SN e yn	Use the Wetland Map on the back of this form to mark... CIV
1 Gank 158		1			
2 Sigt 125		20			
3 uidk 838		650			
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

OFFICE USE

229
P.W. No.

1
Part

153
Sheet Ref.

70
Observer

1/1
Comb./Spare

RETURN to the Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Ornithologists Union

Computer Form for use in the Survey of
WATERBIRD USAGE
of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer RJ et al. phone _____
Address _____

postcode _____
Wetland Nature Reserve name VASSE - WONNERUP ESTUARY
P.W. No. 229 Part No. 1

Date of Survey 05/02/1986 Start/Finish _____ Sheet 1 of 2
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: Totals: 23,921 birds of 35+ spp.

Comp: All areas with water from western basin of Vasse, to far end of Wonnerup (i.e. includes all of Wonn. & therefore bigger area — though less thoroughly surveyed — than 25/1/86).

i.e. counts not taken of some spp. e.g. Gylt, L.P.C.

English Name abbrevia. (4 letters) RAOU Atlas No. SPECIES

English Name abbrevia. (4 letters)	RAOU Atlas No.	local number of birds recorded (last digit)	1 or 2 Total or Partial Count	BREEDING: Tick ✓ if these categories were observed... dd DR SN e yn	Use the Wetland Map on the back of this form to mark...
1 <u>Apel</u>	<u>1.0.6</u>	<u>7.5.0</u>			<u>clv</u>
2 <u>Dart</u>	<u>1.0.1</u>	<u>2</u>			
3 <u>Piel</u>	<u>0.9.9</u>	<u>1.2.0</u>			
4 <u>Wpftn</u>	<u>1.8.8</u>	<u>1.7.1</u>			
5 <u>GtLE</u>	<u>1.8.7</u>	<u>2.2.0</u>			
6 <u>EaRE</u>	<u>1.9.1</u>	<u>1</u>			
7 <u>SacI</u>	<u>1.7.9</u>	<u>1</u>			
8 <u>YbSL</u>	<u>1.8.2</u>	<u>1.0.8</u>			
9 <u>Swan</u>	<u>2.0.3</u>	<u>1.0</u>			
10 <u>Shel</u>	<u>2.0.7</u>	<u>6.5.0</u>			
11 <u>PaBD</u>	<u>2.0.8</u>	<u>3.0.0</u>			
12 <u>Gylt</u>	<u>2.1.1</u>	<u>1</u>			
13 <u>Shov</u>	<u>2.1.2</u>	<u>1</u>			
14 <u>PeaD</u>	<u>2.1.3</u>	<u>6.6</u>			
15 <u>Matla</u>	<u>2.1.9</u>	<u>1</u>			
16 <u>Coot</u>	<u>0.5.9</u>	<u>2.0.0.0</u>			
17 <u>GryP</u>	<u>1.3.6</u>	<u>2</u>			
18 <u>RkDo</u>	<u>1.3.2</u>	<u>1</u>			
19 <u>RcaP</u>	<u>1.4.3</u>	<u>4.0.0</u>			
20 <u>BwSt</u>	<u>1.4.6</u>	<u>1.00.0</u>			

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey,
3. any other relevant information.

OFFICE USE
229
P.W. No.
1
Part
1.5.4
Sheet Ref.
70
Observer
1/1
Comb./Spare

RETURN to Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU

Royal Australasian
Ornithologists Union

FINAL

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WATERBIRD USAGEof
Wetland Nature Reservesvested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.Observer RJ et al. phone _____

Address _____

postcode _____

Wetland Nature Reserve name VASSE-WONNERUP ESTUARYP.W. No. 229 Part No. 1Date of Survey 05/02/1986 Start/Finish _____ Sheet 2 of 2

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W2. Put an "A" if you are confident that you found all species present (otherwise put N). N3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. X4. Used a telescope (T)? If not, put an X. T5. Used a boat (B)? If not, put an X. XComments:SPECIES
English Name
abbrev. (4 letters)

RAOU Atlas No.

local number of birds recorded (last digit ↓)

Total or Partial Count ↓ HOV

BREEDING: Tick ✓ if these categories were observed...
dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

CIV

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey,

3. any other relevant information.

OFFICE USE

229

P.W. No.

1

Part

1.5.5

Sheet Ref.

70

Observer

1/1

Comb./Spare

RETURN to
the Field Officer:
(address is in
'W.A. Bird Notes')

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RAOU Koyal Australasian Ornithologists Union FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer RJ et al. phone

Address Jim Lane, Dony Watkins postcode

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY

P.W.No. 229 Part No. 1

Date of Survey 29/05/1986 Start/Finish Sheet 1 of 2

 ...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an 'A' if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

'Coordinated' survey of fairly brief nature - looked at Far west Vasse (River end-pool), all other Vasse, Channels, North Wonnerup & Swan Lake.

English Name abbrevn. (4 letters)	RAOU Atlas No.	local number of birds recorded (last digit)	Total or Partial Count	Tick ✓ if these categories were observed...	Use the Wetland Map on the back of this form to mark...
				dd DR SN e yn	clv
1 HhGb	06.2	30			
2 AuGb	06.1	5			
3 Dart	1.0.1	6			
4 LiBC	09.7	1			
5 LpIC	1.0.0	2			
6 WpHn	1.8.8	247			
7 GtAE	1.8.7	5			
8 SacI	1.7.9	4			
9 SukI	1.8.0	86			
10 YbSL	1.8.2	9			
11 Swan	2.0.3	971			
12 Shel	2.0.7	297			
13 PaBD	2.0.8	2274			
14 GtTL	2.1.1	4895			
15 Shov	2.1.2	40.1			
16 Pead	2.1.3	1			
17 Mand	2.0.2	15			
18 MusD	2.1.7	5			
19 Matla	2.1.9	3			
20 AuCk	04.9	2			

OFFICE USE

229

P.W.No.

Part

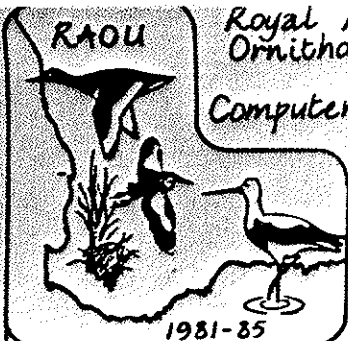
Sheet Ref. 156

Observer

Comb./Spare

RETURN to Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian Ornithologists Union

FINAL

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WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

Observer RT et al. phone _____
Address _____

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY
P.W. No. 229 Part No. 1

Date of Survey 29/05/1986 Start/Finish _____ Sheet 2 of 2
_____ eg. 1:00pm = 1300.

- 1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
- 2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
- 3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. ☒ X
- 4. Used a telescope (T)? If not, put an X. ☒ T
- 5. Used a boat (B)? If not, put an X. ☒ X

Comments: (see Sheet 1)

English Name abbrev. (4 letters) RAOU Atlas No.

10001 number of birds recorded (last digit) Total or Partial Count

BREEDING: Tick ✓ if these categories were observed... dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

1	PuSn	058	1						
2	Coat	059	2000						
3	Balg	135	1						
4	BfpP	144	3						
5	BwSt	146	173						
6	BaSt	147	95						
7	RuAv	148	82						
8	Gank	158	8						
9	ShuS	163	1						
10	CurS	161	20						
11	uick	838	20						
12	uivw	835	80						
13									
14									
15									
16									
17									
18									
19									
20									

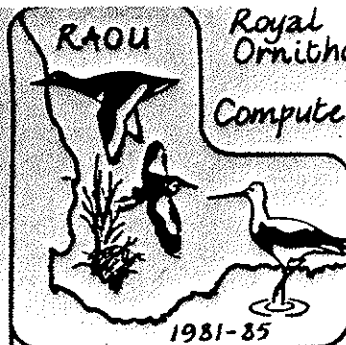
- 1. approximate positions of any active nests found (SN, e, yn).
- 2. the route of your survey.
- 3. any other relevant information.

OFFICE USE

229
P.W. No.
1
Part
157
Sheet Ref.
70
Observer
1/1
Comb./Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
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FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer RJ phone _____
Address _____

postcode _____

Wetland Nature Reserve name VASSE ESTUARY

P.W.No. 229 Part No. reserve < to west

Date of Survey _____ Start/Finish _____ Sheet _____ of _____

23111985 11301245...eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ M
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

SPECIES
English Name
abbrevtn.
(4 letters)

RAOU
Atlas
No.

local
number
of birds
recorded
(last digit)

1 or 1
Total
or Partial
Count
Count

DRAWING
Tick ✓ if these
categories were
observed...

Use the
Wetland Map on
the back of
this form
to mark...

1 APel 1.06

2

☐

☐

2 LPic 1.00

1

☐

☐

3 WfHn 1.88

5

☐

☐

4 PcHn 1.89

4

☐

☐

5 GrEE 1.87

10

☐

☐

6 SuKI 1.80

400

☐

☐

7 SacI 1.79

25

☐

☐

8 Swam 2.03

500

☐

☐

9 Shel 2.07

100

☐

☐

10 PaBD 2.08

5

☐

☐

11 GyTL 2.11

500

☐

☐

12 Coat 0.59

5

☐

☐

13 BwSt 1.46

400

☐

☐

14 SigI 1.25

50

☐

☐

15

☐

☐

16

☐

☐

17

☐

☐

18

☐

☐

19

☐

☐

20

☐

☐

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

158

Sheet Ref.

70

Observer

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer RJ et al. (RAOU) phone _____

Address _____

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY postcode _____

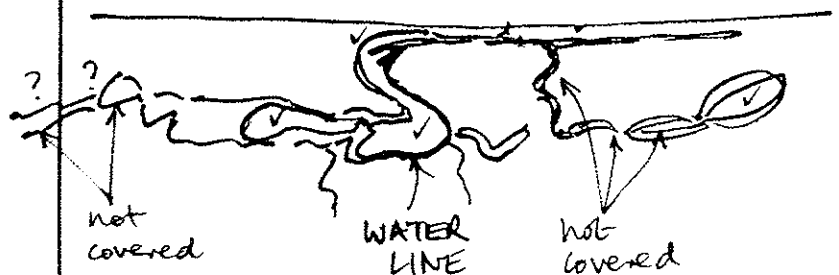
P.W.No. _____ Part No. _____

Date of Survey 25.01.1986 Start/Finish _____ Sheet 1 of 3

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: 24-25 January 1986
Coordinated Count.



English Name abbrevn (4 letters)	RAOU Atlas No.	total number of birds recorded (last digit)	Total or Partial Count 1 or 2 ↓ HOV	Tick ✓ if these categories were observed... dd DR SN e yn	C/V	Use the Wetland Map on the back of this form to mark...
1 HhGb	062	40				1. approximate positions of any active nests found (SN, e, yn).
2 AuGb	061	27				2. the route of your survey.
3 APel	106	120				3. any other relevant information
4 Dart	101	10				
5 PieC	099	212				
6 LiBC	097	110				
7 LP.C	100	50				
8 WpHn	188	250				
9 GtE	187	170				
10 RNHn	192	5				
11 SactI	179	40				
12 SntI	180	20				
13 RoSl	181	1				
14 YbSl	182	120				
15 Swam	203	500		✓		
16 shel	207	800				
17 Pa8D	208	1500				
18 GtTL	211	7000		✓		
19 Shol	212	500				
20 PeaD	213	50				

OFFICE USE

229
P.W.No. _____

1
Part _____

159
Sheet Ref. _____

70
Observer _____

111
Comb./Spare _____

RETURN to
the Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

RAOU Royal Australasian Ornithologists Union

Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer RT et al. phone _____

Address _____

Wetland Nature Reserve name VASSE-WONNERUP ESTUARY postcode _____

P.W. No. _____ Part No. _____

Date of Survey 25.01.1986 Start/Finish _____ Sheet 2 of 3

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. X
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments: see sheet 1

English Name abbrevth (4 letters) RAOU Atlas No.

10000 number of birds recorded (last digit y) 1 or 2 Total or Partial Count

Tick ✓ if these categories were observed... dd DR SN e yn

Use the Wetland Map on the back of this form to mark...

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W. No. 1

Part 1.6.0

Sheet Ref. 70

Observer RT

Comb/Spare

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

1	Hard	2.15	100						
2	Mand	2.02	40						
3	MusD	2.17	8						
4	Ospy	2.41	1						
5	WSE	2.26	1						
6	Matta	2.19	5						
7	BbaR	0.46	3			✓			
8	BeNh	0.55	1						
9	DuMo	0.56	12						
10	PuSn	0.58	4						
11	Coot	0.59	4000						
12	Balg	1.35	2						
13	GryP	1.36	14						
14	RkDo	1.32	2						
15	RcaP	1.43	250						
16	BfoP	1.44	6						
17	BwSt	1.46	5000						
18	BaSt	1.47	50						
19	RnAv	1.48	4000						
20	WooS	1.54	61						

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Computer Form for use in the Survey of

WATERBIRD USAGE

of Wetland Nature Reserves vested in the Western Australian Wildlife Authority & situated in the South-West & Eucla Divisions.

1981-85

Observer RT et al. phone _____

Address _____

Wetland Nature Reserve name VASSE - WONNERUP ESTUARY postcode _____

P.W. No. _____ Part No. _____

Date of Survey 25.01.1986 Start/Finish _____ Sheet 3 of 3

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L); medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments: see sheet 1

Note: Painted Snipe seen several weeks earlier in season, near Ford Road (Vasse River marshes), by J. Clarke (CAWM). Photo supplied.

English Name abbrevn. (4 letters)	RAOU Atlas No.	local number of birds recorded (last digit ↓)	Total or Partial Count ↓	100% or Partial Count	Tick ✓ if these categories were observed...	Use the Wetland Map on the back of this form to mark...
					dd DR SN e yn	C/V
1 GtAT	1.55	1				
2 ComS	1.57	2				
3 Gank	1.58	200				
4 MarS	1.59	1				
5 SNIFE	8.52	1				
6 BlAG	1.52	18				
7 ReKn	1.64	8				
8 GrKn	1.65	1				
9 ShLS	1.63	23.00				
10 PecS	9.78	3				
11 RenS	1.62	20.00				
12 LotS	9.65	44				
13 CurS	1.61	1200				
14 Sigl	1.25	150				
15 Whit	1.10	4				
16 Wwgt	1.09	10				
17 CasT	1.12	10				
18 CreT	1.15	5				
19 LiGd	5.2.2	3				
20 PaSe	1.70	1				

OFFICE USE

2.2.9

P.W. No. 1

Part 1.6.1

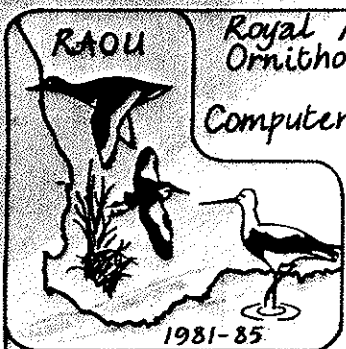
Sheet Ref. 7.0

Observer RT et al.

Comb/Spare 1/1

RETURN to the Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



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Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer R. Jaensch / S. Watkin / B. Kneebone

Address _____

Wetland Nature Reserve name VASSE / WONNERUP postcode _____

P.W. No. 229 Part No. 6

Date of Survey 27.09.1986 Start/Finish 1.0.3.0 / 2.0.0 Sheet 1 of 1

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? W
2. Put an "A" if you are confident that you found all species present (otherwise put N). N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. M
4. Used a telescope (T)? If not, put an X. T
5. Used a boat (B)? If not, put an X. X

Comments:

Uivr in Sec. 'a' seen in air about to set down.

Swan: 8 sets young.
(Various age groups).

9 nest mounds
near Sabina R mouth.

Water is much lower than 1985-86;
e.g. reserve area now dryer than Nov. 85.

SPECIES
English Name
abbrev. (4 letters)

RAOU Atlas No.

Total number of birds recorded (last digit)

T or P: Total or Partial Count

BREEDING: Tick ✓ if these categories were observed...

Use the Wetland Map on the back of this form to mark...

1 Swan	203
2 WfHn	188
3 PaBol	208
4 Shel	207
5 SnKI	180
6 WooS	154
7 Uivr	835
8 RCap	143
9 RenS	162
10 GrtE	187
11 GyTL	211
12 Shov	212
13 WooS	154
14 BuSk	146
15	
16	
17	
18	
19	
20	

430	200	T
24	P	
33	P	
10	2	P
71	T	
1	P	
30	P	
20	P	
1	P	
10	T	
20	P	
1	P	
154	154	P
15	T	

dd	DR	SN	e	yn
	✓	✓		

C/V

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229

P.W. No.

7

Part

162

Sheet Ref.

70

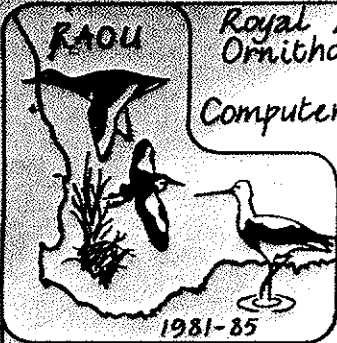
Observer

211

Comb./Spare

RETURN to
69 Lanark
St, Coolbinia,
WA, 6050.

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

of
Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer Taensch/Watkin/Kneebone phone _____

Address _____

Wetland Nature Reserve name VASSE/WONNERUP postcode _____

P.W.No. 229 Part No. e

Date of Survey 27/09/1986 Start/Finish 12.15/13.00 Sheet 1 of 1

eg. 1:00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ T
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

Coot in one mob near Abba R marsh

Swan 8 sets young (~2 sets to ~8 sets)

30 nests, mainly at the west end of this section, close to Sabina R outflow.

Shul DR: one set

SPECIES	
English Name abbrevn. (4 letters)	RAOU Atlas No.

1 Swan	2,0,3
2 Shul	2,0,7
3 Coot	0,5,9
4 GygE	2,1,1
5 Ybsl	1,8,2
6 GrtE	1,8,7
7 Dart	1,0,1
8 MusD	2,1,7
9 Sac I	1,7,9
10 Pa Bd	2,0,8
11 Wfltn	1,8,3
12 wdk	Q38
13 Hard	2,1,5
14 Shov	2,1,2
15 RnAv	1,4,8
16 nigb	820
17 LPic	1,0,0
18	
19	
20	

Total number of birds recorded (last digit ↓)	Tor P. Total or Partial Count. ↓
---	----------------------------------

1,5,5	T
3,0,0	T
9,0,0	P
1,5,0	P
1,9	T
1	T
1	P
1,5	P
1	T
8,0	P
2	P
1,0,0	P
5	P
5	P
2	P
5,0	P
5	P

BREEDING: Tick ✓ if these categories were observed...				
dd	DR	SN	e	yn

✓				
✓				

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

22,7

P.W.No.

1

Part

163

Sheet Ref.

70

Observer

21

Comb./Spare

RETURN to Field Officer: (address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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Computer Form for use in the Survey of
WATERBIRD USAGE
of
Wetland Nature Reserves
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Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

1981-85

Observer Jaensch/Kneebone phone _____
Address _____ postcode _____

Wetland Nature Reserve name VASSE
P.W.No. 229 Part No. 'g'

Date of Survey 27/09/1986 Start/Finish 1300/1345 Sheet 1 of 1
eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an 'A' if you are confident that you found all species present (otherwise put N). ☒ N
3. Intensity of nest searches: no searches (X); low (L), medium (M) or high (H) intensity. ☒ L
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments:

+ 2 other sets (< 2 wks)
GyTL: 2 sets young 1 of 3 (3wks), 1 of 6 (< 1wk)
Swan: 4 ♀ 9 2x2, 1x7, 1x4 (2wks to 4wks)
Shov: ♀ + ♀

Many refuge & nesting opportunities in
beds of Arum Lillies along lower Abba: muddy
or shallow waters
ground lillies.

SPECIES		Total number of birds recorded (last digit)	Tor P: Total or Partial Count ↓
English Name abbrevn (4 letters)	RAOU Atlas No.		HOW
1 <u>Sac I</u>	<u>17.9</u>	<u>5</u> P	
2 <u>GyTL</u>	<u>21.1</u>	<u>102</u> P	
3 <u>Dart</u>	<u>1.0.1</u>	<u>2</u> P	
4 <u>PaBd</u>	<u>2.0.8</u>	<u>31</u> P	
5 <u>LiBC</u>	<u>0.9.7</u>	<u>25</u> P	
6 <u>WfHn</u>	<u>1.8.8</u>	<u>3</u> P	
7 <u>MusD</u>	<u>2.1.7</u>	<u>1</u> P	
8 <u>Swan</u>	<u>2.0.3</u>	<u>23</u> P	
9 <u>ManD</u>	<u>2.0.2</u>	<u>4</u> P	
10 <u>LPIC</u>	<u>1.0.0</u>	<u>6</u> P	
11 <u>Shov</u>	<u>2.1.2</u>	<u>2</u> P	
12 <u>Shel</u>	<u>2.0.7</u>	<u>4</u> P	
13			
14			
15			
16			
17			
18			
19			
20			

BREEDING:
Tick ✓ if these
categories were
observed...

dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

C/V

111

111

111

111

111

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111

1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey;
3. any other relevant information.

OFFICE USE

229

P.W.No.

1

Part

164

Sheet Ref.

70

Observer

21

Comb./Spare

RETURN to
the
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
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South-West & Eucla Divisions.

Observer J. JENSEN & KNEEBONE phone _____

Address _____

Wetland Nature Reserve name Vasse - Woonerup postcode _____

P.W. No. 22.9 Part No. 1 (j) North End W. up

Date of Survey 27/09/1986 Start/Finish _____ Sheet _____ of _____

eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W

2. Put an "A" if you are confident that you found all species present (otherwise put N). ☒ A

3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☐ X

4. Used a telescope (T)? If not, put an X. ☐ T

5. Used a boat (B)? If not, put an X. ☐ B

Comments:

several sets of Swan DR

Several hundred Black Swans, plus egrets, in middle Woonerup.

SPECIES
English Name
RAOU Atlas
abbrevn. No.
(4 letters)

1 Swan 20.3

2 GreE 1.8.7

3 PieC 0.9.9

4 Widk 8.3.8

5 _____

6 _____

7 _____

8 _____

9 _____

10 _____

11 _____

12 _____

13 _____

14 _____

15 _____

16 _____

17 _____

18 _____

19 _____

20 _____

Total number of birds recorded (last digit)

150 P

5 T

120 T

100 P

Total Partial Count

BREEDING: Tick ✓ if these categories were observed...

☒ DR ☐ SN ☐ e ☐ yn

Use the Wetland Map on the back of this form to mark...

1. approximate positions of any active nests found (SN, e, yn).

2. the route of your survey;

3. any other relevant information.

OFFICE USE

22.9

P.W. No.

1

Part

16.5

Sheet Ref.

7.0

Observer

21

Comb./Spare

RETURN to

Field Officer:

(address is in

'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.

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WATERBIRD USAGE
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1981-85

Observer WATKINS & McNEE phone _____
Address + JAKENSH _____
Wetland Nature Reserve name VASSE - WONNERUP postcode _____
P.W.No. 229 Part No. 1 : j South Wonn
Date of Survey 27/09/1986 Start/Finish 1.3.30 Sheet 14.15 of _____
eg. 1.00pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☐ X ☐ L ☐ M ☐ H
4. Used a telescope (T)? If not, put an X. ☐ T ☐ X
5. Used a boat (B)? If not, put an X. ☐ B ☐ X

Comments:

Not entered on spreadsheet yet
Walked to end of 24/12/86
Wonnerrup Inlet from
Forrest Beach Rd (bridge/lock).
Combine with other counts on 27/9

PABD: add 7+2+3+2+3 small young
GyTL: add 2+5+4+5 " "
Shel: add 8+9 " "

SPECIES
English Name RAOU Atlas abbrevn No.
(4 letters)

1 Crown 20.3
2 Shov 21.2
3 Pank 1.5.8
4 AmS 1.5.7
5 Wood 1.5.4
6 Wfth 1.8.8
7 Dart 1.0.1
8 Sigl 1.2.5
9 Bust 1.4.6
10 PABD 20.8
11 GyTL 2.1.1
12 Shel 20.7
13 _____
14 _____
15 _____
16 _____
17 _____
18 _____
19 _____
20 _____

Total number of birds recorded (last digit) Tor P. Total Partial Count

1 163 P
2 4 P
3 10 P
4 1 P
5 3 P
6 9 P
7 1 P
8 20 P
9 20 P
10 3.2 P
11 12 P
12 20 P
13 _____
14 _____
15 _____
16 _____
17 _____
18 _____
19 _____
20 _____

BREEDING:
Tick ✓ if these categories were observed...

dd DR SN e yn
1 ☒ ☐ ☐ ☐ ☐
2 ☐ ☐ ☐ ☐ ☐
3 ☐ ☐ ☐ ☐ ☐
4 ☐ ☐ ☐ ☐ ☐
5 ☐ ☐ ☐ ☐ ☐
6 ☐ ☐ ☐ ☐ ☐
7 ☐ ☐ ☐ ☐ ☐
8 ☐ ☐ ☐ ☐ ☐
9 ☐ ☐ ☐ ☐ ☐
10 ☒ ☐ ☐ ☐ ☐
11 ☒ ☐ ☐ ☐ ☐
12 ☒ ☐ ☐ ☐ ☐
13 ☐ ☐ ☐ ☐ ☐
14 ☐ ☐ ☐ ☐ ☐
15 ☐ ☐ ☐ ☐ ☐
16 ☐ ☐ ☐ ☐ ☐
17 ☐ ☐ ☐ ☐ ☐
18 ☐ ☐ ☐ ☐ ☐
19 ☐ ☐ ☐ ☐ ☐
20 ☐ ☐ ☐ ☐ ☐

Use the Wetland Map on the back of this form to mark...

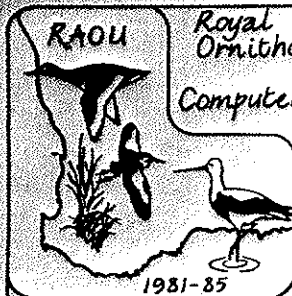
1. approximate positions of any active nests found (SN, e, yn).
2. the route of your survey.
3. any other relevant information.

OFFICE USE

229
P.W.No. 7
Part 166
Sheet Ref. 132
Observer 21
Comb./Spare

RETURN to the Field Officer:
(address is in 'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put extra comments on back or on attached sheets / complete all questions & relevant sections / check all data / print clearly.



Royal Australasian
Ornithologists Union

FINAL

Computer Form for use in the Survey of

WATERBIRD USAGE

Wetland Nature Reserves
vested in the
Western Australian Wildlife
Authority & situated in the
South-West & Eucla Divisions.

Observer Jensch/Kneebone phone _____
Address _____

Wetland Nature Reserve name WONNERUP
P.W. No. 229 Part No. SWAN LAKE

Date of Survey 27/09/86 Start/Finish 1430/1500 Sheet 1 of 1
eg. 100pm = 1300.

1. Wetland had surface water (W), no surface water but was moist (M), or was dry (D)? ☒ W
2. Put an "A" if you are confident that you found all species present (otherwise put "N"). ☒ N
3. Intensity of nest searches: no searches (X), low (L), medium (M) or high (H) intensity. ☒ X
4. Used a telescope (T)? If not, put an X. ☒ X
5. Used a boat (B)? If not, put an X. ☒ X

Comments: 'Swan Lake' section ^{Swan} count
Note: map should refer to separate lake as ~~above~~ below

Swan: Total Nests 160, of which ~130 appeared active for 1986.

Most nests
on ocean
side of
wetland

Nests = Adults sitting or in attendance = 40
Several nests = visible eggs.

11 sets of young up to ~3 wks.

Total Swan 230

Adequate water remaining to support further
hatching of young from eggs banded.

SPECIES
English Name
RAOU Atlas
abbrev. No.
(4 letters)

Total number
of birds
recorded
(last digit)
Total
or Partial
Count
Count
↓ HOV

BREEDING:
Tick ✓ if these
categories were
observed...
dd DR SN e yn

Use the
Wetland Map on
the back of
this form
to mark...

C/V

1/1

1. approximate
positions of
any active
nests found
(SN, e, yn).

2. the route
of your
survey;

3. any other
relevant
information.

OFFICE USE

229

P.W. No.

1

Part

167

Sheet Ref.

21

Observer

21

Comb./Spare

RETURN to
Field Officer:
(address is in
'W.A. Bird Notes')

Note: enter data for additional species on a separate form / put
extra comments on back or on attached sheets / complete all ques-
tions & relevant sections / check all data / print clearly.

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