

Croxley

LI-FLAT

SCHOOL
note book

Little Sheg Colony
— Waterfront Motel
+ Ngapipi Rd.

①

NAME

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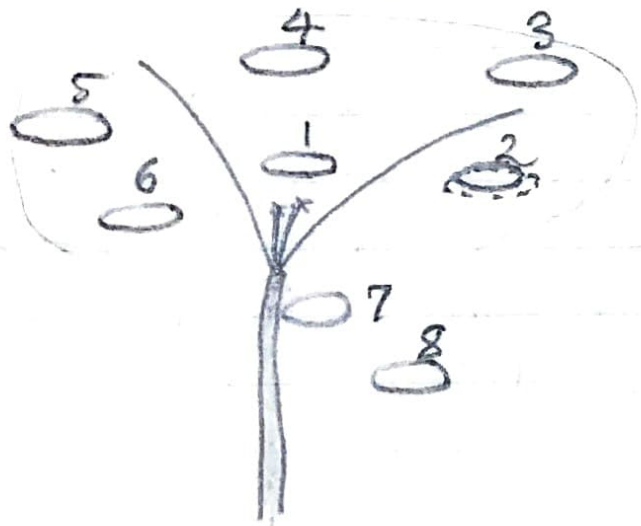
SCHOOL

Little Shags
 W' front Motel
 12 - 1.30 pm.

15-10-77

Group ⑦ E

From Westmost lemon tree in Motel



From below 'in bowl' of Tree ⑦



⑦ E

State of
Nest

Adults

1. 1 chick : W/T : F/P

(W/T was sitting, F/P took over & fed the chick)

2. Incomplete : W/T : ?

(W/T on guard)

3. Sitting : F/P? : F/P

4. Sitting : W/T : F/P

(change over took place)

5. W/T: 5m → 3 fledglings in vicinity

(Taking flight when fed by adult with white H.S. & neck)

6. 2 chicks : F/P? : ?

(Adult obs. preening)

7. 2 fledglings W/T : ?

8. Sitting W/T : W/T

[9. - see 29-10-77]

Nests occ: 8 ∴ 16 adults

" unocc: 1

(Netlings) 3

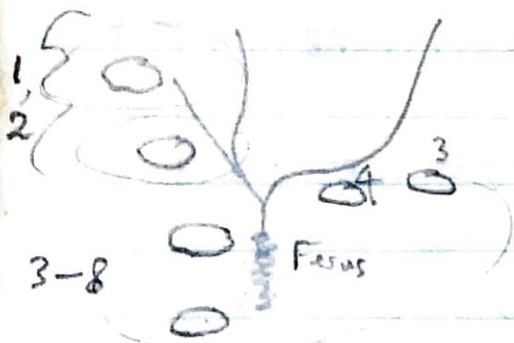
Fledglings: 25

Upper Branches

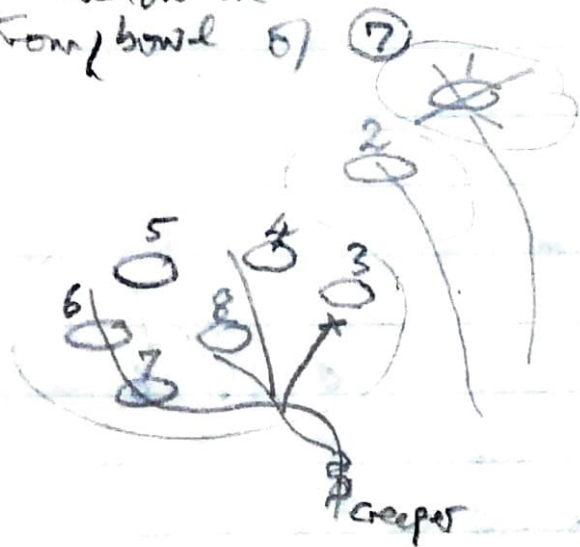
Lower

Group 6 W

From twisty willow in Motel
(Requires checking)



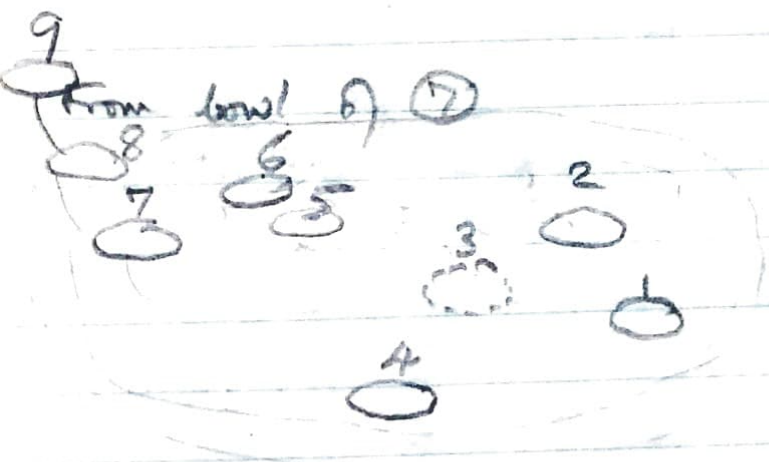
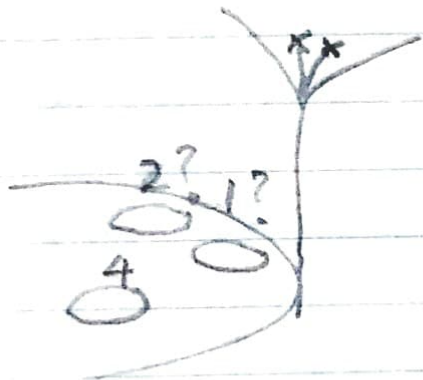
below in
From bowl 5) 7)



⑥ W	State of nest	Adults
Upper group (inward)	1. <u>Incomplete</u> : w/t (w/t on guard)	
	2. <u>Sitting</u>	w/t : F/P
Lower group (forward)	3. <u>1 chick on guard</u> : F/P : Sm	
	4. <u>Sitting</u> : w/t : F/P	
	5. <u>Sitting</u>	
	6. <u>Unocc.</u>	
	7. <u>Sitting</u>	w/t : ?
	8. <u>Unocc.</u>	
Nests occ:		6 i. 12 adults
" unocc:		2
Chicks (Nestlings)		1
Fledglings		-

Redraw

Group ⑦ C (low in tree ~ 10m)
From Westmost lemon tree in Motel
(nests are too low to see
easily from here).



⑦ C

fledglings
2 nestlings ~~F/P~~ (v.v. smudgy): (1 neck)
1. Sitting: ~~F/P~~ W/T
("Necking" of adults occurred when W/T arrived & before nestlings fed)
2. Sitting: F/P

3. Incomplete

(lowest) 4. 1 chick: fledgling
W/T: ?
(adult has black "ears")

5. Sitting: W/T?

6. Unocc.

7. On guard: W/T?
Sun: F/P

8. Chicks W/T: ?

9. Sitting W/T: Sun 14

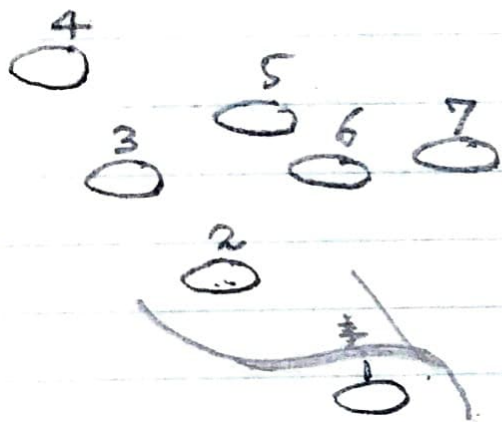
Nests occ.: 7 ~~6~~ ∴ 10 adults

" unocc. 2

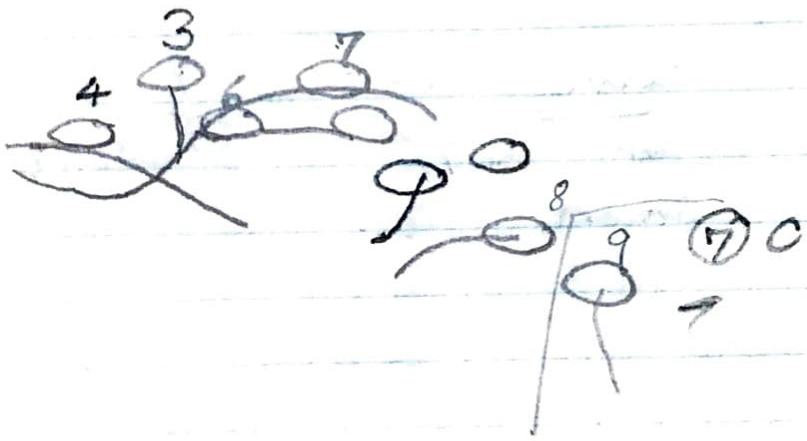
Chicks (nestlings) 2?

Fledglings: 3

Group ⑦ W (High intree ~ 20m)
From Kowhai in M87d



From below in bowl of ⑦



⑦ W	State of nest	Adults
-----	---------------	--------

1. Unocc.

2. 1 chick; 1 adult on go
(Adult on guard)

3. Sitting w/T: F/P

4. Sitting w/T: F/P

5. Sitting: F/P speckled (chicks feed) :? [May not be same as 9 of 29-10-77]

6. Sitting 29-10-77

7. 3 chicks: w/T: F/P

8. chicks ? ?

(adult present)

~~9. Sitting = 9 of ⑦ C~~

Nests occ.: 78 ∴ 14 adults

" unocc.: 1

chicks (nestlings): 6+

Fledglings: -

Little shags - ~~to~~ W'front Motel

Nests on visit 15-10-77 to which
the breeding records refer:

1. The young (both nestlings
and fledglings) are uniformly
dark, including head & neck
(dark brownish down). Gular
pouch is pinkish red.

2. The three most advanced
fledglings were able to flap
about and after a feed
one flew out ⁽¹⁾ after the adult
(W/T), circled and cranked
back into upper branches of (6).

These fledgling squeaked
loudly. They appeared to see
& recognise their parent
while it was still flying in.

3. Total occ. nests = 28
∴ Adults = 56 Fledglings 8
Unocc nests = 5

15.10.77

Little Shags

19-10-77

W'front Motel

6.15 - 6.45 pm.

Group (7) E

From Motel & from below:

1. 1 nestling: F/P: W/T adults ^(Black nest muffs)

~~X~~ — No nest now evident

3. Sitting: 2 : W/T near

4. Sitting:

5. Sitting?

6. 2 nestlings

7. Sitting?

8. Sitting

[9. See 29-10-77]

Also in attendance were

Adults 8 ∴ Total adults 14

Nests occ. 7 ∴ 14 adults

Nestlings 3

Fledglings 4

Note. 3 Large Pied Shags were
roosting in outer branches

⑥ W

From below

- X. — Nest not evident
1. Sitting on chicks
 2. Sitting
 3. Sitting
 4. Sitting
 5. Sitting
 6. Unocc.
 7. Sitting
 8. Unocc.

Nests occ. 5

unocc. 2

Fledglings 3

Adults in attendance 8

Note: several fledglings
have some white on
chin [a throat]

⑦ C

From below

1. Unocc.
2. Sitting
3. — nest not evident
4. unocc.
5. On guard
6. unocc.
7. sitting
8. chicks
9. sitting

Nests occ. ~~X~~ 5

unocc. 3

Fledglings 2

Adults in attendance 1

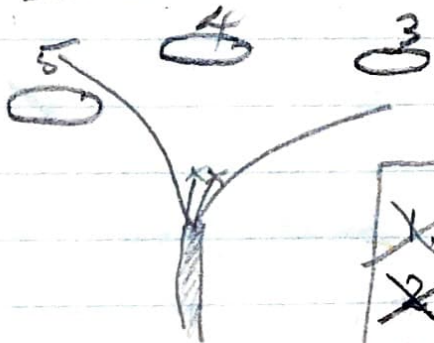
⑧ W

Active but not recorded
in detail due to failing
light.

Little Shags W. Coast North
29-10-77

12-1.30pm Five (✓ = confirmed)

(7) E - from lemon on 30-10-77)



From below



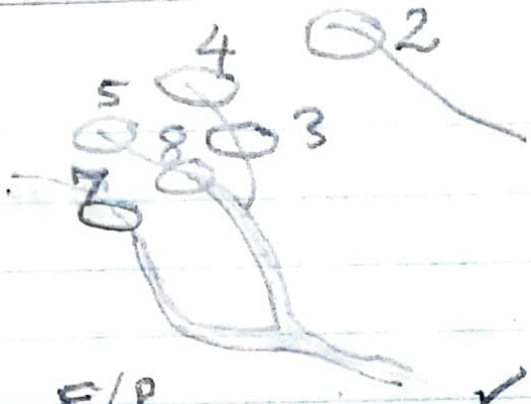
Lower



- (7) E
- ~~X~~ No nest
 - ~~X~~ No nest
 - 3. Sitting (legs on branch below)
 - 4. Sitting Black "ears"
 - 5. Sitting F/P ✓
 - ~~X~~ No nest
 - 7. Sitting ✓
 - 8. Sitting : W/T adult ✓
 - 9. Sitting : F/P
(a new nest since 19-10-77)

⑥ W

X -



2. Sitting F/P ✓

3. ^{large} 1 Nestling : Smudgy ^{breasted} adult F/P ✓

4. 2 Nestlings : Adult on-guard ✓
F/P replaced W/T to feed chicks

5. Sitting Unocc. on 30.10.77 ✓

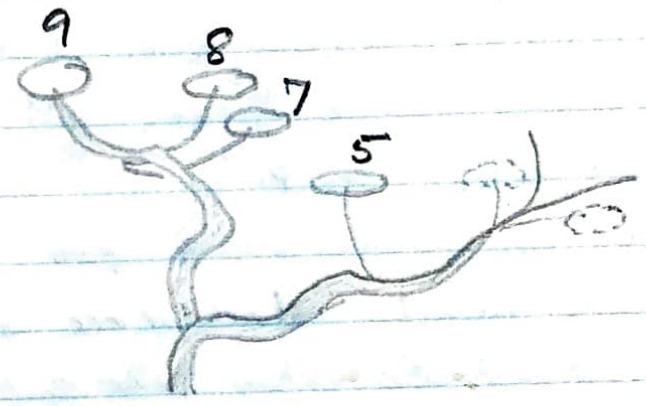
X -

7. Sitting - W/T with Smudgy unocc.

8. Unocc.

⑦ C (low)

From below in back of ⑦



1. Remnant only

2. Remnant only

X.

X.

5. Unocc. : 3 Fledglings nearby
on 30.10.77

X.

7. 3 ^{small} Nestlings : Fed by F/P adult ✓

8. 3 large Nestlings : Fed by ✓
W/T adult (white-necked) on 30.10.77

9. Sitting ✓

Notes

29-10-77

1. Juvenile plumage:

Nestlings are dark brownish black with pink gular pouch which forms loose checks.

Fledglings have dark plumage, slender head, dark face & bill.

Older (i.e. larger & more confident) fledglings have developed white around the face & chin which looks like skin rather than feathers. Feet are dark steel grey (slate grey).

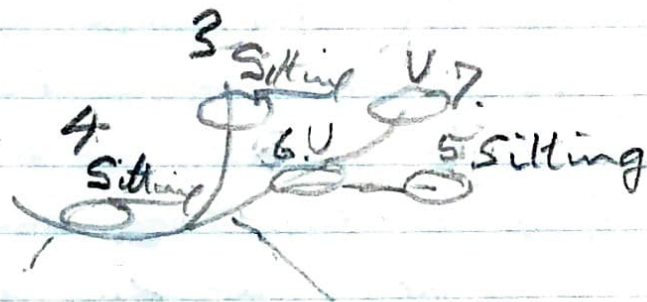
2. Fledglings respond with squawks & flaps to the return of their own adult only.

One fledgling flew down on tree water, then took off & flew towards Hobson Bay.

3. A large pied shag was feeding nearby but no litters.

⑦ W (High)

From below



Note Present records don't tally well with 15-10-77 shelter. There are ^{three} ~~two~~ sitting nests as shown. There were 2 Fledglings in the vicinity of the unocc. nests. 3 nests are unaccounted for.

Total occ. nests = 16 17

Fledglings away from nest = 10
+ 3 Fledglings in ⑦ C-8 = 13

Unocc. nests = ~~8~~ 7

Total nests = 24

29, 10.77

Checked & amended 30.10.77.

NOTES

30-10-77

- 2 fledglings were on the mud below the trees & flew on my approach - 1 onto the water & 1 back into the trees.
- No. of fledglings is away from the nest (including the above was between 10 & 13) - probably 10.
- W/T adult fed 1 fledgling. No others responded. Late W/T fed 1 fledgling & P/P tried to join in.
- 1 adult has speckled breast with no large areas of black. 1 adult W/T has white-neck & tiny white patches on the breast.

(N.Z. D.L.S. Legons)

Little Shags

30-10-77

3-4 p.m.

without flight

Visit during ^{NW} strong wind.

Slight amendments in steel on

29-10-77 paper.

places notes opp.

7 p.m. several P. brevirostris were roosting in the trees (6) & (7) with beak tucked in.

8 P. Varius were also settling down to roost - several of these still there at dawn the following morning.

Notes1-11-77

1. All fledglings are dark with fluffy, dark brownish necks.
2. On the small nestlings, the gular pouch is bright red, with the appearance of "wattles" easily visible from behind. I suspect that the red appears strongly white they are being fed.
3. F/P birds are white underneath & look like black "leggings"
 - a. P. varius.
4. Nesting material - looks like plantain twigs with leaves.

Little shaps1-11-77

2:30 - 4 pm.

Strong SW. wind but very sheltered

W/ front of Hotel

⑦ E

3. F/P sitting
 4. "Black ears" sitting
 5. unrec w/ with white spots on black breast nearby.
 7. "Black ears" sitting
 8. sitting. Then 3 small ^{nestlings} chicks fed by w/T adult.
 9. sitting. Then F/P on guard all dark.
- Also present: 7 Fledglings.
 1 F/P bird who crest which looks immature.
 1 P. varius
 5 adult P. brevirostris

⑥ W.

2. Sitting

3. 1 large nestling

4. 2 nestlings fed by w/ro adult
(Smudgy neck small white area on
right breast) F/P adult had
been near.

5. unocc.

~~7.~~ 7. Sitting

8. unocc.

⑦ C

5. 1 Fledgling near

7. small nestlings fed by
F/P which much black on breast.

8. 3 large nestlings nearby.

9. Sitting.

Also: 1 Fledgling

⑦ W

3. Sitting

4. Sitting

Other 3 nests apparently unocc

Also: 2 Fledglings

Fledglings away from nests = 10
+ 3 that flew on my approach = 13

1 dead fledgling in high tide
debris.

Little shops

2-11-77

6-6.30 pm.

Frue

W' front Motel

⑦ E

3. Sitting

4. Sitting

5. F/P? sitting

7. Sitting

8. W/T? sitting 3 small nestlings

9. F/P sitting

Also present: 3 Fledglings

9 adults roosting

(incl. W/T & speckly breasted birds
close side by side),

⑦ C

5. 1 Fledgling near
F/P adult with black crown breast
7. 3 chicks fed by smudgy
breasted adult, then by F/P
8. Fledglings near
9. Sitting

⑦ W

3. Sitting
4. Sitting

⑥ W

2. W/T sitting
3. 1 Fledgling fed by F/P
4. 2 ~~3~~ chicks
dark smudgy adult near
5. Woo
7. W/T on guard
8. Woo.
- + 1 Fledgling.

Little shags

4-11-77

Visited Lake Kerda
where there were

8 W/T

2 F/P

1 Smudgy

} Little shags

Notes

6-11-77

1. The immature sp bird (previously noted) was present. The head is "juvenile" & narrow with white around face & bill. ~~Rest~~ Breast is wholly white, somewhat fluffy around the edge.

2. 3 chicks on Ⓣ c/7 were fed. They squirmed & called, showing gular pouches. After feeding they snuggled together. Pouches not obvious.

3. Roosting was taking place in the pohutukawa above water in Ngapipi Rd. - At least 6 adult + juveniles.

Little Shags

6-11-77

W'front Motel

5:30 - 6 pm.

Ⓣ E

3. F/P sitting changed with F/P4. Sitting5. Sitting7. 2 chicks W/T? near8. Sitting9. Sitting + Dark smudgy nearAlso present: Fledglings 6Adult F/P 1P. varius 3

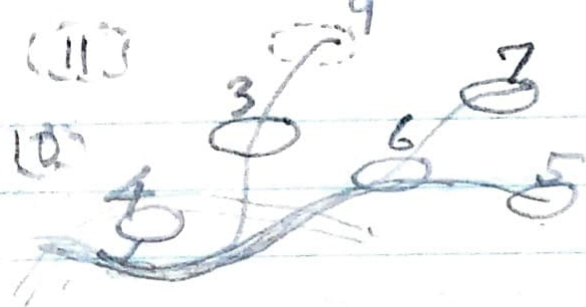
Ⓣ c

5. Unocc. (used)7. 3 chicks fed by F/P speckled8. Unocc. (used)9. Sitting

⑦ W

(11)

(10)



3. Sitting w/t and neck
4. Sitting
5. on guard
6. Unocc. (Fledgling near)
7. Sitting

* 9. ^{w/t?} Adult near * new nest
 — a thin platform of sticks.

⑥ W

2. Sitting
3. Unocc. (used)
4. 2 large chicks fed by F/P.

5. Unocc.

7. Unocc.

8. Unocc.

Also present: 2 Fledglings

Little Shags
w'front Motel

13-11-77
5-6 pm.

7 W

3. Sitting
4. Sitting
5. F/P sitting replaced
by sundry.
- * ~~No nest remaining.~~
7. Sitting

9. Incomplete nest with
two adults close together
on the nest: w/t and
F/P (having 2 dark patches
close together on lower
abdomen)

7C

5. nooc W/T near

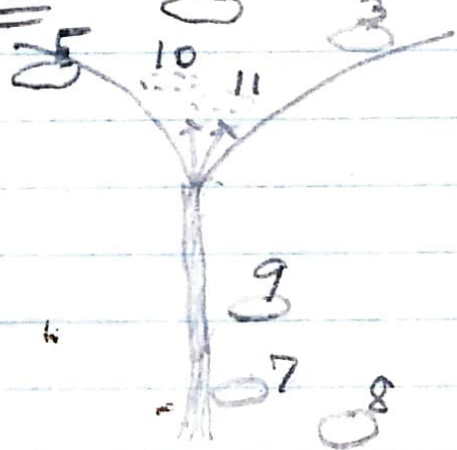
7. ? 2 large nestlings

~~8~~ No nest remaining

9. Sitting

7E

4 From lemon tree



3. F/P sitting & feeding 1 chick
Piebald smudgy near

4. sitting

5. F/P sitting which left on
arrival of W/T (with white neck)
which remained on guard.

7

Sitting (nestlings)

8

Sitting

9

Sitting

*10. F/P & W/T side-by-side
on incomplete nest. W/T did
some building

*11. F/P on v. incomplete nest.
(10 & 11. only 1m. apart)

Also 3 w/ & fledglings

3 F/P

2 W/T

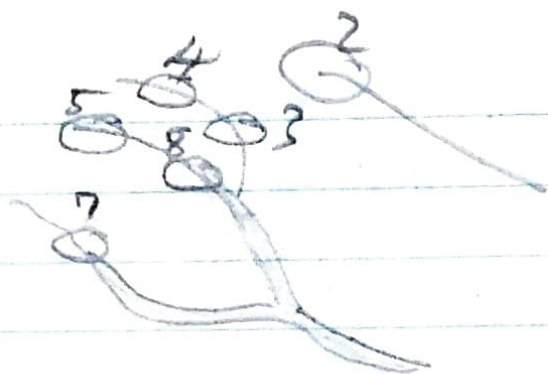
F/P fledgling was fed by
F/P smudgy adult.

1 W/T fledgling was seen.

Also 2 large pieal shears

* new nests

6W



2. F/P sitting

W/T (with white neck and 2 patches on upper breast) near

3. 1 F/P fledgling in nest

4. 2 dark large nest-tups

5. unocc.

~~X~~ no nest remainings

8. unocc.

Also 1 F/P

2 Fledglings

1 fledgling fed by W/T adult

Ngapipi Rd Tree - visited

~ 10 Little Shags (incl. fledglings)

2 Large Pied Shags

No nests.

Little Shags
W/ front Hotel

17-11-77
7.45 - 8.15 pm

6W

2. Sitting

~~X~~ No nest remainings

1 Fledgling near - F/P: head is dark above the bill which is yellow

4. Dark fledgling ^{with red patch} in nest

2 FI Fledgling with dark head & neck but white breast near

Both fed by F/P adult

5. unocc.

8. unocc.

Also: 4 birds (Probably

2 adult & 2 fledglings)

- 1 adult is muddgy

- 1 adult? has 3 dark bands



7E


3. Sitting - chicks
4. Sitting $\frac{3}{2}$? chicks
5. sitting

7. Sitting - 1? chick
8. Sitting
9. Sitting

10. F/P sitting: W/T flew in and sat close alongside

~~11.~~ F/P (smudgy) sitting
W/T alongside also

Note: At this early stage of sitting it is likely that females of 10. & 11. are the F/P birds

Also: 11 birds (probably 4 adults & 7 fledglings)
- 1 bird is 

7C

5. Sitting
- ~~7.~~ No nest remains
- ~~8.~~ " " "
9. W/T "ears" sitting

Also: 1 fledgling.

7W

3. sitting
4. Sitting
5. Sitting
6. No nest remains
7. Sitting

9. W/T & F/P on thin platform

Also: 1 adult

+ 5 P. Varus in roosting.

Ngapipi Rd - some P. Brewsterian roosting.

Little Shags
w/ front Motel

23-11-77
6-6:30 pm

6W

2. Sitting

4. - Remnant only. 2 Fledglings
near. 1 is F/P.

~~X~~. No nest-remains

~~8~~. Remnant only (as start
of new nest - but no birds near)

7E

3. 2 chicks (large, downy) fed by F/P. [⊙]

4. 3 chicks. F/P near

5. Sitting

7. 2? chicks. w/t near

8. Sitting

9. Sitting

10. F/P sitting (turning eggs)

11. F/P sitting

Also: 2 large pied shags.

7C

5. Remnant only (nest failed)
9. WLT "ears" sitting

Also: 1 bird

7W

3. 1 large nestling fed by F/P.
4. F/P sitting
5. Sitting
- ~~6.~~
7. W/P sitting
9. Sitting (nest small & ? incomplete).

Ngapii Rd.

12 + roosting
(adults + fledglings)

15 occ. nests. on 23.11.77

Little Shags.

28-11-77

W'front Motel

7-8 pm

6W

2. F/P? sitting. W/T on 9 sat along -side
 4. Remnant only
- Also: 1 large pied shag
2 little shags -
fledgling: 1 dark & 1 F/P.

7L

3. 2 large nestlings fed near nest by F/P. F/P than stayed. Nest is now only a platform
4. 2 large nestlings asleep. W/abe & squeaked on arrival of F/P 3m off which did not feed them. Also squeaked on approach of P. various forest nearby & when 2. shag adult stole from nest - (see 11)
5. Sitting

7E cont!

7. Unocc.
8. Sitting
9. Sitting

10. F/P sitting. W/T brought a twig, then left.

11. W/T sitting, relieved by F/P at 7:30 pm. W/T then moved branch to branch to nest 4, removed a twig, returned a present to

mate who added it to a nest.

This was repeated during the next 20 min. — 6 times in all.

After which W/T replaced F/P to resume incubation.


W/T ignored chicks in 4, but they begged & squeaked.

Once W/T tried to pull off a small branch but failed

while on route to nest 4.

When returned F/P preened nearby.

Also in 7E:

5 large pied shags (noisy on arrival then still & quiet)
3 little shags, incl. 1 or 2 FL
& 1 S/T 

Resting birds indulge in preening & head scratching. Feet close around branch.

7C

9. 1 nestling fed by W/T

7W. 3. 1 large nestling

4. Sitting

5. Sitting. F/P arr. with a twig, greeted & passed twig.

7. W/T sitting — 1 speckled F/P arr., then moved away.

9. F/P sitting

Also: 1 Fledgling

Seen from Ngapipi Rd:
Trees 6, 7 have 15+
roosting birds (incl. large
pied)

Tree 11 9+ birds (incl. 2+)

Ngapipi Rd tree ~20 birds

* 1 nest now visible
— sitting

* to be checked

Note

Nets 10 & 11 in 7E
are 8' wings & are only
50 cm apart.

Little changes 4-12-77
W/ front Motel 6-6:45 pm

6W

2. Sitting

4. Remnant

↳ Also: 2 large pied sharp.

7E

3. 2 large nestling, climbing
in & out of nest. 1 regurg. a
pellet

4. 2 large nestling, fed by
F/P. Also in & out of nest.

5. F/P sitting high.

7. Unocc.

8. W/T sitting

9. Sitting

10. W/T sitting

11. F/P sitting

Also: 1 Fl. fed by W/T
2 large pied sharp.

7C
9. 1 large nestling
Also: 1? fledgling? near 9.

7W
3. 1 large nestling was
pied & downy. Fed by W/P.
4. F/P sitting, released by W/P
5. F/P sitting

7. Sitting

7. F/P sitting

Note:

→ I checked below the trees to
see tree 11. This has no
chaps, but W/P heron is
building ~ 10 m up.

→ Ngapipi Rd. trees had
~ 10 birds

→ As I recall at 31/12 the large
nestlings of 7E/3 & 4 were dark

Little Shags 10-12-77
W'front Motel 12-1 pm.
Strong wind

6W
2. W/P sitting
4. Remnant

7E
3. unocc remnant } 2 Fledglings
4. unocc } near
5. Snowdy sitting high ①

7. Remnant

8. Sitting

9. F/P sitting (plumage stained
reddish brown).

10. Sitting

11. Sitting

Also: 1 adult & 5 Fl. incl.
The 2 near nests 3 & 4.

7C

9. 1 large dark nestling
w/ adult near

7W

3. 1 F/P fledgling (w. throat
dark bill turning yellow at base)
Preening on a new nest: - platform only

4. F/P sitting

5. F/P sitting

7. w/ sitting - replaced by
smulgy which sat alongside for
several minutes before taking over

9. Sitting

Note: Nests are mainly
pohutakawa twigs some
with leaves. They are
built inside the leaf canopy.

Little Shags

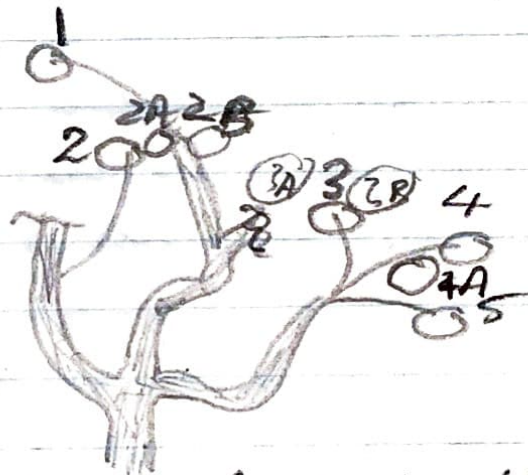
10-12-77

Ngapipi Rd. Tree

12 near

Visit confirmed the nest
seen on 28/11. (There had been 0 on 13/11.)
There are
now 5 nests, all with
sitting birds. Above water
at high tide in pohutakawa
30m up. Although at road
level they are difficult
to see through the canopy.

From fallen branch facing S



Note: Several dark fledglings
were present & one was
fed by w/te adult

Little Shags
w/ front Motel

14-12-77
7-7.30 pm

60

2. F/P sitting

72

3. F/P & W/T side by side on old nest

4. F/P & W/T side by side.
Some bowing.

5. F/P? sitting. Moved off.

2 chicks begging to adult

This involves neck squirming ^{rapid} bill movement, fluttering of sac & squeaking

7. Remnant

8. Sitting

9. F/P sitting

10. Sitting

11. Unacc.

May be wrong way bound

Also — several fledglings
led away from nest. — sev. p. cool

7C
9. Unocc.

7W
3. Unocc.
4. Sitting
5. "
7. "
9. " w/T

Note In 7E an adult (F/P) arrived and a nearby fledgling recognized it and excitedly came to be fed. A second fledgling 3-4 m away quickly flew across & joined in. Feeding lasted less than $\frac{1}{2}$ min. and adult then flew off.

Little Shags 18-12-77
W' front M Steel 5-5.30 pm
With JES.

6W
2. F/P sitting 6. Remnant
7E adult
3. Remnant w/T/resting on it.
4. Unocc
5. 2 chicks begging & fed by F/P
7. Remnant
8. Sitting
9. F/P sitting 10. Forget
11. to record

7C
9. Unocc.

7W
3. Remnant
4. Sitting
5. 1 large all dark nestling
7. Smudgy sitting
9. Sitting

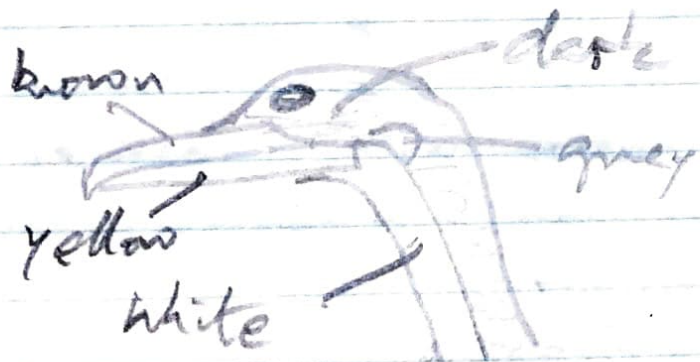
Also 3 days piced in 7E.

Note 25-12-77

Ngapipi Rd tree had several birds visible from the road, incl. 2 immature

FP birds:

Wholly white below and up to the lower mandible, but dark & downy on back of neck and head around the eye.



Feet - black
Thighs - white?

Little Shags

24-12-77

W/ front of steel 1:20 → 2:15 pm

6W 2. Sitting

7E 3. F/P sitting

(New)

4. Sitting

(New)

5. 2 large nestlings (dark, downy - well dev. wings). Fed by W/T^(a neck), then by F/P away from nest, scrambling.

*

8. Sitting

9. 1 large nestling fed by F/P with brownish-yellow throat

10. Unoc.

11. W/T sitting

Also: 1 Fledgling - all dark with dark bill + white skin below bill.

2 large pied shags v. close together below & to W. of 7E/3.

7C 9. Unacc.

- 7W 3. Remnant platform
4. w/T sitting high & preening. F/P close alongside peering into the nest.
5. Sitting. w/T [?] alongside (NEW)
7. 1 small nestling fed by w/T
9. F/P sitting

Ngapipi Rd
~ 5 birds visible.

Ngapipi Rd 28-12-77

4.30 pm

Seen from below there are now 10 nests either sitting or with a bird in attendance.

— See sketch 10-12-77

Another close pair near "2B"

Rittle Shaps 28-12-77
w/ front Motel 9-9.30 am

6W 2. F/P sitting

7E 3: F/P sitting (NEW)
4. F/P sitting: w/T bringing twig.
5. 2 Fledglings (all dark) fed away from nest by w/T.

8. Sitting

9. 1 Fledgling (all dark, with white skin around bill & purple skin below ^{black} bill (sack). + "orange" stained F/P adult


sitting in nest alongside young

bird. Colour is on face, neck

lower breast (faintly) & upper breast ~~and~~, where it is

deepest, and is russet — the

colour of a deep N2 D.H.

10. Unacc. A mottled bird was selecting & removing twigs 

then flying to Ngapipi Rd tree.

— 5 such visits in succession.
11. F/P sitting

7c 9. Unocc.

7W 3. 1 bird ^(new) Sitting on remnant
— looks like a fresh nesting.

4. F/P sitting

5. Sitting

7. Unocc?

9. Sitting

Little Shop sightings

Opuntia 27-12-77:

3 W/T & 2 dark hum.

A.M. & B. Mangrove 28-12-77

Several W/T & 1 F/P

Little Shop 30-12-77

5' front Hotel 5.45 → 6.30

6W

2. F/P sitting high

7E

3. W/T sitting

4. F/P sitting (asleep)

5. 2 dark fledglings near
nest, fed by F/P, then by W/T.

8. Sitting

9. "Coloured" bird at nest,
with 1 ^{large} ^{large} ^{nestling} fledgling begging.

10. Small remnant

11. W/T sitting

Also: 1 large pied shop


2 little shops

1 hum. little shop — dark
with white feathered throat

— white starts from lower mandible

7c X

7W

3. w/t (?) sitting on platform
4. w/t sitting
replaced by F/P 
5. F/P & F/P rebuilding old nest. One bird using bill and feet.
7. Remnant
9. F/P sitting

Also: 2 adult Little Shags

Little Shags 31-12-77

w/ front HAdal 6.30 pm


6W 2. w/t sitting

7E 3. w/t sitting

4. sitting

5. 2 dark fledglings near

8. sitting?

9. Dark smudgy at nest 
(fledgling probably present)

10. small remnant

11. w/t sitting

7W

3. sitting

4. w/t sitting

5. F/P at nest.

7. Remnant

9. sitting

Also: several other adults

Little Shags Jan 4-1-78

W/ front Hotel 4-4-30 pm
6/6 2. 2 dark, downy chicks (1 larger than other) F/P adult alongside.

7E 3. W/T sitting ^{"Time w/T"}
with dark neck & white face
F/P alongside - black on head only as indistinct line.

4. F/P sitting

5. Unacc 2 dark fledglings ^{nest}

8. Sitting

9. Unacc. "Russet" F/P near and 1 fledgling 3 m away - white feathers coming thro' on breast, dark neck of Pigeon.

7D 11. 1 dark, downy chick (or 1 week) F/P adult alongside

7/6 3. Sitting

4. Sitting

5. Incomp. let. e. F/P near

9. Sitting

Little Shags 6-1-78


W/ front Hotel 10.15-10.45

6/6 2. F/P guarding chicks

7E 3. W/T sitting

4. Sitting

5. 2 wholly dark fledglings near nest. 1 fed by F/P. Other begged.

8. Sitting, then single W/T siter was replaced by W/T queen 

9. Russet F/P guarding fledgling

11 - NOT obs at nest.

12. New o/h from crook of tree

Mined ^{before} to left of 7E/5

W/T sitting, dark sun by dong side.

fledged 
breast

7/6 3. Sitting

4. Sitting

5. F/P sitting, replaced by F/P. Arriving bird calls

"Wu-Wu-Wu". Siter gapes

9. Sitting

Little Shags

8-6-78

W/front Hotel

~10 am.

- 6W 2. F/P guarding 2 chicks
- 7E 3. F/P sitting
- 4. F/P sitting. W/T bringing twigs from nest
- 5. (3 times obs.) 2 dark fledglings near
- 8. Sitting W/T nearby
- 9. 1 F/P fledgling. "Russet" adult near.
- 11. W/T guarding 1 chick
F/P arrived & greeted.
- 12. L/Sun sitting, W/T alongside.

- 7W 3. Sitting
- 4. "
- 5. "
- 9. "

Note: During feeding of a fledgling away from the nest a flounder from trap & almost net was dropped.

9-14/1/78

Little Shags - Bay of Plenty

- Jan 78 during D.S. Gause

Various Little Shags were seen, mainly W/T, some F/P and immatures of both phases.

Notable were:

- 1) W/T which was white-headed, the black feathers stopping at the nape. L. Waiti; 10-1-78
- 2) 1 L/Sun. & 1 D/Sun. at Ohinewai 13-1-78
- 3) F/P, tinted yellow, and W/T & neck, tinted russet, also W/T & F/P birds at Awaiti swamp 12-1-78.
Up to 32 Little Black & c. 8. Black Shags were nesting in 2 flooded willows with c. 15 nests. (Platform 2-5m above water) only 1 bird appeared to be sitting - a Little Black.

15-1-78

L. Karapiro

Good views of 1 little black shag

1 W/T Little Shag

(Duck?) → 

Little Shags

15-1-78

Wfront Motel

5 p.m.

6W

2. 2 dark, downy nestlings

7E

3. F/P sitting

4. sitting

5. small remnant

8. W/T sitting

9. Remnant unsec.

11. 1 large dark nestlings

12? Now 2 platforms
21m apart - no birds.

Also: 1 dark fledgling

7W

3. sitting

4. "

5. "

9. "

Little Shags

20-1-78

Wfront Motel

7-30pm

6W 2. 2 dark nestlings - fed.

7E 3. sitting

4. " ~~X~~

8. " ~~X~~

11. 1 dark fledgling, squawking
& flap up. W/T near.

12? platforms each with

13 } a bird on: 3 others near.

7W All 4 sitting. Possible 5th
- see 30/1

Also: 6 p. brevirostris.

12 p. various roosting.

Note. Remnant bird came in and
quickly fed F/P fledgling.

Ngapipi Rd

Some birds sitting

chicks calling.

- Too dark for details
or to count.

Literature

P. Millener: Biology of P. Varus

M.Sc. 72-69.

Maps P28, 35

Chick recogn. P180

Diving rhythms of other ^{P192} ~~shags~~

Stonehouse Feeding of NZ shags
Ibis, 109 600 (1967)

Sibson Pied shags at L. Pupuke
Notarum, 7 1 (1956)
(Refer Xerox copy).