

MIDDLE
ISLAND

1976 1984

Collins NOTEBOOK

3510 FAINT

Collins "GRAPHIC" NOTE BOOKS

No. 1347, 158 mm x 101 mm, 112 pages.

No. 1367, 158 mm x 101 mm, 168 pages.

No. 1397, 158 mm x 101 mm, 252 pages.

No. 2310, 177 mm x 114 mm, 160 pages.

No. 2388, 177 mm x 114 mm, 256 pages.

No. 3510, 203 mm x 127 mm, 160 pages.

No. 3515, 203 mm x 127 mm, 240 pages.

No. 3525, 203 mm x 127 mm, 400 pages.

AVAILABLE IN:

FAINT, INDEXED AND CASH RULINGS

PLANT ECOLOGY
WA. Wildlife Research
Centre
P.O. Box 51 Wanneroo
6065

Collins

"GRAPHIC" NOTE BOOK

Esperance W.O.

Dept Fisheries & Wildlife
c/- Esperance Port Authority
Building

P.O. Box 798

Esperance 6450.

phone 090 71839



MANUFACTURED BY

COLLINS BROS. STATIONERS PTY. LTD.

SYDNEY AND MELBOURNE, AUSTRALIA

4/11/76

Atoll. Middle Island.

Silver eye Western

Spotted scrub wren

? Bronzewing

Sooty oystercatcher

Comorant

3 Ravens

New Holland honeyeater

? Bush bronzewing

? Rock parrot

4/11/76

distribution of birds not obviously
related to fire history

- they prefer openish veg

4/12/76 tracks, no birds observed etc but

Regen Vega seems to be opening up
now

No signs of old roosting in *Melaleuca*
gibbera or *Eucalyptus* - trees

so appears younger than that of Bell Bl.

Foot foot-foot-foot foot foot up
fluent fluent.

9/11/76 Middle Island

Adventurous roosting

Acacia sp. (specimen taken)

Prostrate main stem

1st branch 5m along → 0.5m Root →

0.5m Root for 0.3m → branch

photographed item / off to leaves etc
up to 4m further



Species not represented in unburnt
Muehlenbeckia.

Species present in unburnt Area

Kenilworthia nigricans

Leucopogon siveol sp

Pimelea clasaki

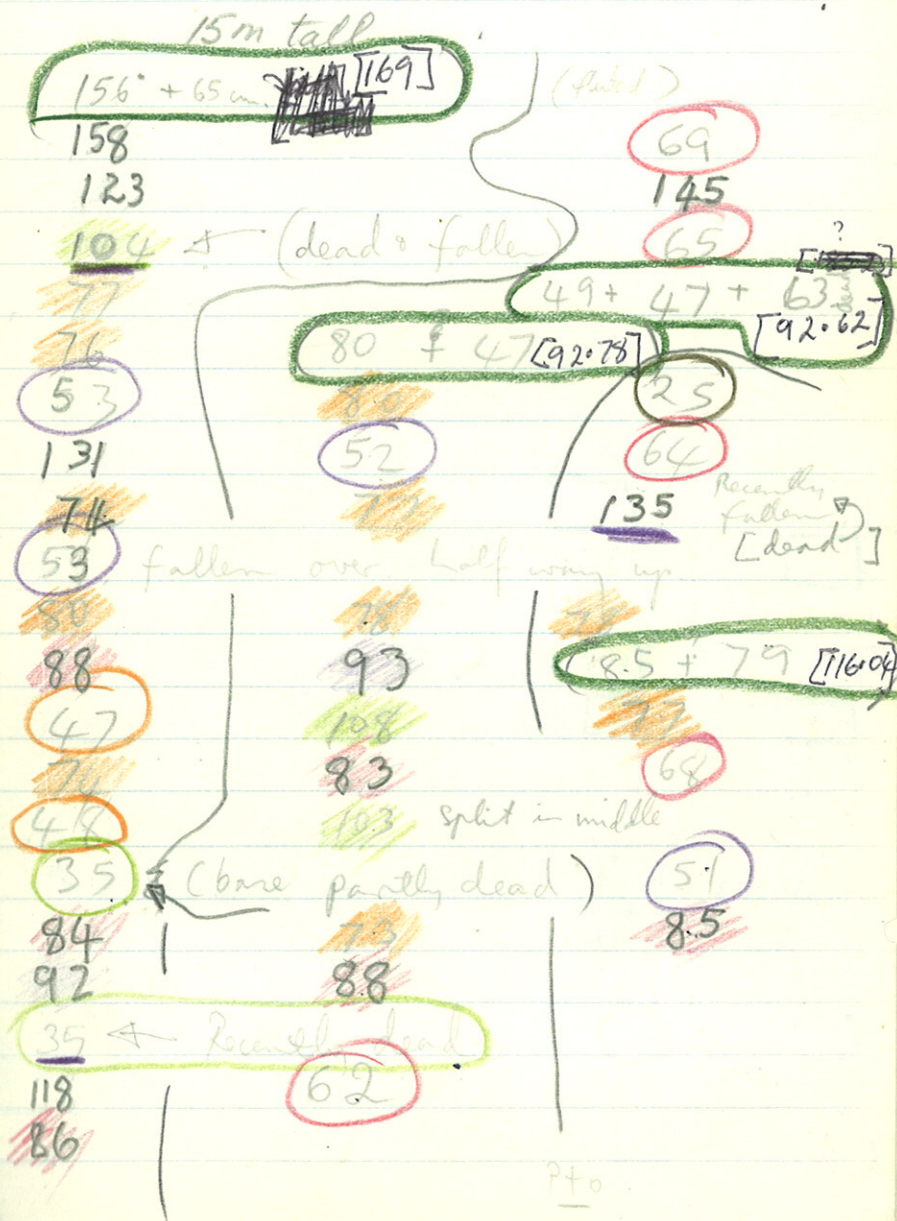
P. argentea

Trochymena plowii

0.1/2 Sample
 E platypus
 L. Inguatosa
 Mel. lanceolata
 Acacia rostellifera
 O. oska the sandheath

10/11/76
 E platypus

[] = combined
 C. p. ...
 based on comb.
 T.S. area.



M. lanceolata (pubescens)
(birth at ground level)

girth 41cm 2.5m tall
41cm 2.5m
49cm 4m tall dead [knocked over by
falling Eucalypt]

Acacia rostellifera

31cm	41	78
42	33	107
18 (grazed)	31	69
35	47	
44	46	
18	34	
57	28	
77	9	
33	69	
33	12	
62	80	
73	82	
31	18	

heights only (apex)

dead trees nearby

dead (old) plants adjacent

Δ horizon with
dark brown (mineral) sandy
bony sands

Pinus clarkii (height)

80 cm	42		
88	51		
64	35		
65	38		
28	53		
53	84		
17	8		
50	11		
35	7		
77			
108			
31			
26			
117			
104			
41			
28			
23			
58			
56	1	38/41	62
79	2	23/41	77
55	3	33	67
53	4	34	68
24	5	27	73

↑ 2 small *Arenaria cooperi*

large population of *Tetragynis pilosa*
& *Carpobrotus* ~20% cover

Random walk through

↑ *Densichloa* for *Opomyza* letter & duff-thick
(5 mm soil) 8cm

1cm

4cm

5

2cm

[] = C_t

s = seedling

110°/s R/Rc

Metaleuca lanceolata
6m tall (Some 67m)

27	61+43 [14*6]	21	* -33 *
36	33	45	28
51	26+47+28+29 [67]	44	32
27	12+12 [17]	20	40
[14+29] [32]	32+29+23 [47]	29	16
32+29+28 [51.4]	3	33	46
28	12	41	30
28+47 [55]	31	31	40+20 [45]
22	43	-32	24
23	33+32+44 [54]	29*	72
24	25	41+23 [47]	25+32 [41]
47	20+33+23 [45]	47	66
39+31 (dead) [52]	32	33	45+61 [26]
33	21 _s	21	2 st Recumbent
29	30	11	35
27	25	22	51
27	48	18	27+23 [35]
27	36	27	22
47	29	29+22 [36]	37
51	-32	22+21 [29]	16
44	25	18	35

Phyllanthus
 Leucopogon - S
 Gnaphalium sphaerium
 Atriplex - S
 Coreopsis
 9m - POD
 Stylidium - S
 Clematis - S

34	34 [48]	34	18	21
34	[40+11]	17	17	15
17	-20	22	17	22
-22	52	27	31	53
11	28	[30]	17	41
14	17	19	23	16
14	23	20	19	15 [28]
26	43	30	50	42
125	[29+23]	[23+33+28]	24+29 [38]	30
22 [45]	26	22	24+29	15
14	28	29	31	26
22	22	44	29	20
20	17	48	[14+23+47]	54
25	22	22	41	30
46	18	-21	14	23
15	33	18	33	13
100	[25+17+12]	18	-22	28
31	27	21	32	23+14 [28]
26	27	27	17	21
22	27	18	25	22
29	18	18	29	26
27	38 [28]	22+29 [36]	29	35
37	25-12	29	21	25
24	19	36	10	25

M. lanceolata

10/11/76

19	-19	32	18	24	[18+25]
26	25	28	44	13	12
26	35	16	24	15	35
15	[23+17]	19	17	21	28
27	21	12	20	25	[19+24+12]
[36]	33	25	24	14	20
28	23	18	4	15	27
14	24	27	37	39	26
18	[16+22]	26	32	15	-27
25	18	30	26	41	23
61	15	16	24	35	31
32	44	27	[16+14]	32	32
16	11	19	[21+30]	46	3
27	23	[33+27+18+27+20]			
31	19	29	43	37	19
11	35	18	17	[35+16]	24
32	31	33	21	38	22
28	16	35	25	14	17
15	25	34	19	34	12
17	23	-19	25	23	[32+26]
17	13	26	27	18	10
18	29	30	[28+31]	30	18
22	21	17	19	25	19
[23+20]	20	18	31	[24+19]	13

M. lanceolata

4/11/76

10	30	23	18	30
24	21	18	32	14
30	32	15	25	26
23	18	22	[26+30]	16
20	24	[30+28+14+35]		24
-28	18	18	18	41
11 [6+100!!]	17	30	22	13
16	28	31	20	[22+35+21]
16	36	26	30	15
32	16	22	27	-43
15	18	25	14	32
[27+21]	41	35	[15+25]	12
22	28	15	30	10
35	-37	26	22	40
21	20	31	18	[9+9+32+14]
30	20	45	24	13
-15	28	38	25	16
[14+38]	31	10	17	22
24	24	20	29	21
24	16	13	[27+34+24]	37
20	37	25	[14+21]	-9
22	[25+20+16]	21	23	18
11	37	11	-42	30
25	38	21	28	[28+29]

M. lanceolata 10/10/16

13	22	16	39
21	25	[23+30+1]	
32	22	-19	
33	16	24	
24	30	[26+13]	
20	32	22	
23	30	18	[50+21]
20	30	28	
30	17	14	
25	16	20	
38	42	17	
58	[34+26]		30
21	27	25	
31	32	17	[27+16]
23	29	42	-29
30	13	35	
17	14	[30+12]	
29	24	[22+31]	
13	27	12	
[27+18]		10	
31	20	16	
23	38	22	
11	24	23	
32	24	31	

190
145
140
132
110
120
150
115
54
84
101
120
401
69
100
200
150
155
155
70
57
126
140
71

634
 ? stems
 544 individuals

Pimelia clavata - an *M. lanceolata* area

81	200	77	120	52	133	150
77	250	78	130	64	150	61
51	59	104	103	67	27	69
51	60	61	120	150	150	103
150	11	14	200	115	115	175
105	38	11	111	115	41	6
148	93	81	100	32	116	5
51	150	15	152	140	23	8
50	60	51	135	32	57	7
41	137	41	121	5	72	64
51	130	51	117	77	44	150
43	100	38	8	156	43	125
101	105	47	155	4	8	180
101	11	88	115	103	148	82
42	76	186	150	145	87	102
91	6	150	72	58	75	90
75	5	97	160	79	116	103
81	76	78	150	150	150	88
7	12	58	144	123	99	51
71	8	12	60	58	122	122
124	6	9	5	40	97	10
117	5	6	150	149	65	47
140	59	59	180	131	130	74

11/23/16

810

Phyllanthus calycinus - Lay 1 cm

	Pindlen cont		
59	145	6	45
55	8	72	150
80	85	160	160
63	150	145	150
51	160	8	6
41	165	14	75
39	150	130	80
43	145	170	150
33	150	114	160
76	110	170	180
66	50	110	7
37	150	100	6
95	150	110	7
65	165	140	7
34	140	150	5
63	200	145	5
63	160	150	
	103	100	
	110	120	
	50	130	
	105	125	
	88	67	
	150	100	

51-60 = 3
 31-40 = 4
 71-80 = 2
 61-70 = 5
 41-50 = 2
 91-100 = 1

17

Small deposits of charcoal in this site

Semi R Walk throi plot detterlaya

% lower	0.5 cm
1 100 - 24	4 cm
2 100 - 13	1.5 cm
3 100 - 13	1 cm
4 100 - 14	0.5 cm
5 100 - 8	

dark sandy loam

76
 87
 87
 86
 92

Permanent sample sites
EPI } photos from 5m AN
MLI }

Separated ~ 100m SE-NW
sites selected by 'dust pan' throw

MLI just outside demog plot
surrounded by Melaleuca
Carpobrotus, *Thymus*, *Oxalis*
+ Moss

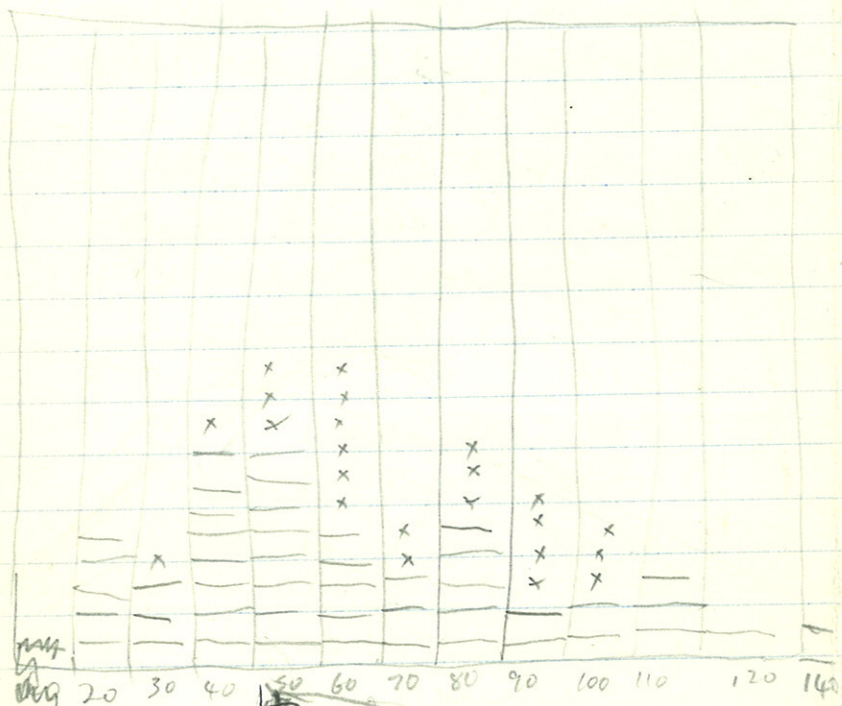
RPI beside road R Platy *Styph*
increase *Carpobrotus*

Pimelia argentea
Carpobrotus
Stylidium (S)
Trachymene
Hibbertia (45 3/5)

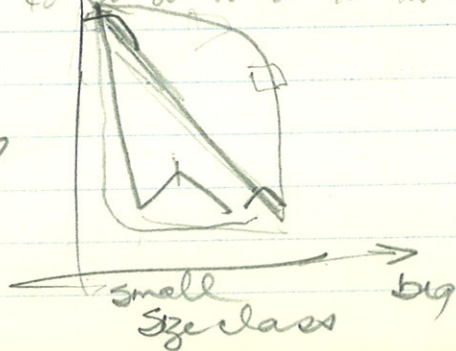
Woodland \pm *Sagularia* 15m tall

[FL. PK 130°)
 below Central prairie
 \neq \neq of AR-PC community.

Plot 1900 long axis



log10



Gahnia
Leucopogon - 5
Pimelia clavata
Cheilanthes
Phyllanthus collyinus
Clematis (young)
Oxalis
Atriplex (young)

Ruellia \rightarrow *rigulosa* stems 0.1m

51cm	70	51	
10.3cm	58 + 9.5 + 8.5 + 6.5 + 7.0 (#0: 170) (proliferate)		
64	64	21	Single stem
73	40	57	21-30 5
118	51	55	31-40 4
47	60	48	41-50 6
83	42	63	51-60 9
113 (mostly dead)		41	61-70 5
99	109 + 151 + 104		71-80 2
103	104	93 + 30	81-90 5
83	59	58	91-100 3
98 + 89	41	34	101-110 2
100	76	89	111-120 3
26 (6m)	62	34 + 52	141-150 1
70 + 59 (semi-prostrate) + 88	127	11.6	
4.3 (almost dead (fallen)) + 65 (ditto) + 64	101		
89	29 (2 niches near plot)	91	
49	54	3.8	
86	26	32	this one see note 4 pages later.
63 + 90	110		
23			
102 + 50 + 60 + 65	144		

Melaleuca lomeselata

63cm (basal) x 5m
 49cm x 4m.
 10+10+18cm. x 2m [= 23]
 35+ 4 3cm. x 4m. [= 55]
 55 x 4 1/2 m
 84 x 5m.
 57 x 6m.
 73 x 6m.
 64 x 6m.
 66 x 6m.
 56+29+ x 6m. [= 63]
 42 x 6m.
 37 x 5m.
 47+? 67 x 6m. [= 81]
 33 x 6m.
 45 x 6m.

18
36

Prunella davata (height cm)

82	21	11	61	63	76	43	43	19
86	6	7	22	91	62	54	7	7
20	60	7	7	137	78	59	4	9
9	64	11	41	92	62	8	65	7
87	32	23	8	6	17	64	7	5
15	85	6	93	115	84	60	32	5
11	57	6	85	111	78	6	64	6
112	8	6	62	78	110	7	65	6
7	6	5	58	117	69	5	54	7
31	6	7	56	110	78	69	58	6
6	5	8	92	12	20	38	109	63
79	7	6	67	78	106	38	6	81
100	7	6	111	44	100	18	7	78
84	6	82	33	89	63	110	6	6
96	5	7	61	61	63	78	82	47
107	7	6	7	63	46	6	5	6
6	19	40	8	63	11	78	6	7
95	5	8	7	7	43	51	5	19
41	5	7	4	7	51	6	4	9
91	11	6	6	53	185	27	50	39
22	15	25	5	116	83	5	8	7
60	5	6	8	95	37	9	66	8
90	5	13	37	88	66	108	8	18
89	4	11	60	5	47	5	5	52
				54	5	8	46	

Phyllanthus calycinus

57

37

45

23

19

53

30

Poa tussock
about 50% cover
of ground.

Panicum argenteum

43

65

83

51

4

40-50

50-60

60-70

70-80

80-90

Hibbertia (f)

TTTT

|| (10)

||

|

|

% cover

1 100-15 85

100-28 72

100-1 99

100-8 92

100-8 92

98%

litter duff

5 cm

3 cm

4.5 cm

5-5 cm damp

5 cm

EAI

Photo from 5m FN

close to LP dead stump

Area of Poa clumps

Fern, Moss, Oxalis

Trachymene & Galium.

16m S of EAI site of LP*

(see list stems measured)

Mallee habit - 2 of old stems

broken off - 3rd nearly dead

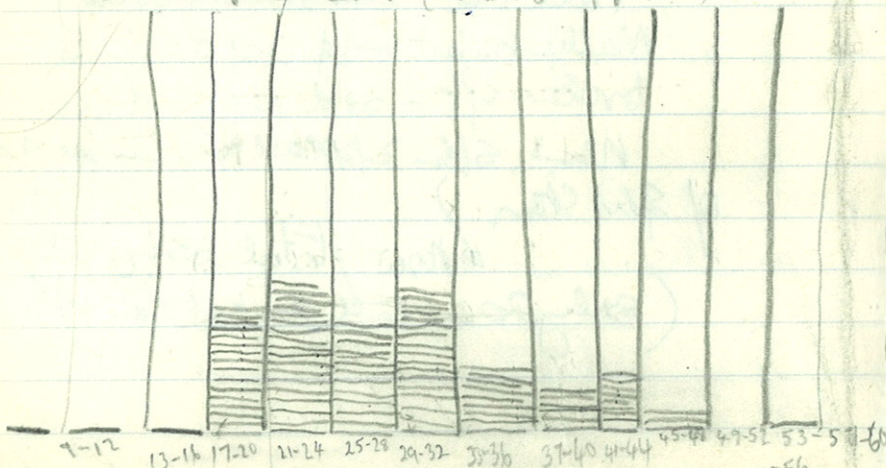
New stem appears for side
of 2nd stem

Now total 35cm long
(only 20cm tall as hot erect)

AR-PC 30°N from E. Side

Bearing 115° on bluffs Pt.
abt 300m from end of rd
near gully area

- Atriplex
- Ceanothus
- Thysanotus patersonii
- Cherlanthes? tenuifolia
- Poa
- ~~Lythrum~~ Phyllanthus calycinus
- Pinella argenta
- " clavata
- Hibbertia racemosa
- Stylidium adnatum
- Melaleuca pubescens (rooted out of plot)



Acaia rostris shrub

* 39, 35, 55, 19+20⁺²⁸, 30, 29

31, 23, 45, 23, 35, 41, 23

37, 25, 18, 28, 33, 43, 23

19, 27, 20, 20, 8, 18, 42

19, 16, 19+26⁺³², 20, 31, 46, 26

31, 32, 31, 28, 24, 41, 40, 23

24, 26, 22, 21+21⁺³⁰, 24, 42, 27

26, 21, 23, 31, 21, 26, 19, 32

26, 32, 29, 35, 29, 18, 34, 46

34, 31, 32, 25, 18, 37, 31, 22

40, 34+? 21, 29, 27, 27, 34, 37, 34

22, 22, 31, 11, 42, 35, 30, 43

43, 21, 42, 22, 25, 19, 27, 20, 18, 19, 12, 39, 26

24, 39, 22, 39

(105 Indiv.)

Leucopogon revolutus

(Also seedling) ⁺² ₊₂₊₁

28+16+8+17+12+13+16+13 = 46 (x 250cm high)

32+31* (x 200cm) = 45, 36+12+15+11 = 43 (x 210cm)

29 (x 150cm), 24+38+62 (dead) (x 200cm) = 76

37 (x 220cm), 51 (x 200cm), 46 (x 120cm)

27+56+23+20 (x 230cm) = 69, 20+70 (x 250cm) = 73

23+19+18+24 (x 200cm) = 42, 50cm (x 60cm)

power

at head

100-2	2	3m
100-18	82	-2m
100-36	64	0.6
4	4	3m
100-38	62	-0.5

2x4
A5

45

Unburnt AR - Stl community
2 of burnt areas sampled
in central lake area
x. 20x25 m 480° long x 15
from front of veg zone to just behind
dune crests

Wind of plot level with 1st offshore
section of reef. (abt 50m off)

Acacia Westringia Pimelea Argy
 CC C BAC ACC C8C B CACCAA BBBABBB
 CB CB CCE 5D BAB B CBCAC ACACB B
 DDBBB CCD CC CB C2D AACCA BB ABB
 ACDB ABB CB3CCDBCC CACCD ABC ABCC
 BB CDC DBB CCCCCBCA DCADB BBCBBBC
 CAACCD ABAA DDC C C C D B D C C B A C
 DBC C CB B3C 4C BC ABBACC CBCC A
 CC ABCC ABB A C D BC AB B CC BCC
 DBCDC BCCCC C3B A 124
 CBB ABBCC BBAAA ACC
 ABD BCC BDC B DD BBBC
 C C D D D A B E 3C 2B A 3B 4B
 C C D D D A C D A A B B
 AB 4C 8C, CC 4C CC BB BCE
 DB AB B B D 3DD BB CCB
 BAB DD D C 4B C D E D D
 C C C D B C A B H E B B B B 5C
 A A C C B B A B B D B B B D
 4B AC AA DD 5C B C D A
 3A C C B 8A 4B 3C NA BBC 3DDC, C 3C 2A 2B D
 7C 3C 5A 8B B 3C 3B E D
 C C C A A 2B B C A B B B B
 3C AAC 2B AA AAA 5C
 ACC 3C 5C AAA 2B 2CC B A B A C C C B C C C C

3DDC, C 3C 2A 2B D

Depidosperma Boronia ^{- alata} non codicis
 Lycopodium Thylacia
 2121111211113 BBAAAAABAA AAD 1111111
 11111111111 BAAAAAA AB
 11111211132 ABA AAAAA
 111111113 AAAADAAAA
 AAAAA A
 D A

Zygop. hyllum
BBBB C
BB AAC
ACBA 4AB
BC CCBA
CC ACCA
AAB CCCBB
CCCB CAB
B

Senecio
|||||
|||||

Spyridium
AAAA

Cappobrotus
|||||/|||
| |||/|||
|||||/14

Trachymene
||

Phyllanthus
ABB ABBB

B BBB AAA AB
BB AAC BB
BB CBBA BA
CC ABBA
BB CB AAA AB
AAAAAAA
AAA AAB CC
ABBA BBBB
BB CB CABA
CBB CB CB
CBB
BCB BB

Clematis
IA

Moss
|||

Atriplex
D

Pimlea clavata
CBBB

Phebalium
A

Amymna
||

Cynodon
present

Melaleuca lanceolata to 2.5m.

7 branch linked stems
40 + 37 + 46 + 38 + 25 + 61 + 41 + 30
+ 34 + 71 + 103 + 24 + 31 + 18 + 34 + 33
[Single stem eqn = 185.4]

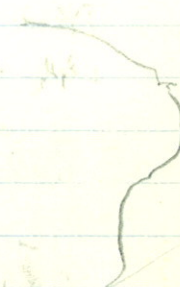
78 + 52 + 60 + 91 + 37 + 38 + 60 + 40
+ 44 + 45 + 38 + 31 + 32 + 38 + 47
[Single stem eqn = 200.87]

2 Melaleuca lanceolata
seedlings discovered just
W of plot under solitary
bunt specimen

this specimen photographed
partly swept by JJJ rocky
as main stem bunt &
JJJ bit above

Photos of ? submerged Melaleuca
Tape from ? orig base
→ sweep stem 5.2m
red tape over stem & leaves

This Mel. site just several m
of beach opposite 1st offshore reef.



west line from E 9000 Est 6
banded mel. lanceolate
≠ NEW banded 2 angles.

AR-1-4
Permⁿ sample site
in plot
62 m apart

Meaning 1/2 plot 4
banded part of 1/2.

AR 4 Area margin Ar ^{dead tree}
+ Ar almost old (under shade of dead Ar)
+ close to large kecup. rev.
Shrubs Pin Argent, Phyllanthus
Acrost juvenis, Hibbertia r.
Pin Clavata + Moss + Poa.

AR 4 just in area of young Ar
+ tall Pin ^{1.2m} (1.6m)
Closest Ar. 75cm
+ Phyllanthus + Pin + Poa

AR 2 Under shaded
Mature Ar. 6-8.5m tall
+ 1 large kecup nearby
O Ar seedlings nearby
mostly Poa + Hibbertia

AR 1 area of dead old Ar.
in Patch 17 fern. long colonised
by Phyllanthus.
Closest Ar. 1m West. 1m tall
Outside fern patch → equidistant
Acacia + Pin argent 6.1.6m.
+ Hibbertia + Poa

Testimony Notted Quoddy
Tommy Road heath 15/2/77
ATTAME.

5x10.m

Carrots

Leucopogon \square in bud

Calystix flavescens

Cyperaceous grass

short spike *Conostylis* *arsuta* type freely

Baetca *pressii*

Laena *paniculata* seedling

Melaleuca *scabra* type

Erinacea *paniculata*

Stipa *grassi* spike

Casuarina *humilis*

(Dead rosette *Styridium*)

~~Rutaceae~~

Hakea *laevis*

Petrophila *media*

Strobilium *latifolium*

Restio greyish segmented

Pomponia herb \approx 2 BFI unknown

Cyperaceous grass tall *Thymelaea*

\leftarrow *Sollya* type creeper

trifoliate herb as per MT

Orchid (dead)

Holcus *strepens* fls
Specimen collected by Red

15/2/77 JTS

C. angulata Calyptis #2 lvs 4x5 bracts > 1/2 + fused
 Conocarpus strobilatus
 (dead) Dioscorea sum to dropping dwarf
 Cyperaceae grass
 (dead) Stybidium repens
 Arigozanthos humilis
 Diuris iskeoides
 Azara pulchella
 Gompholobos
 Leptospermum craticulosum
 Small grass (non-flor)
 Hibbertia frutescens

C. brachyphylla Calyptis #3 v fine dropping lvs
 Conostylis long spike broad petals


E33

Second 5x10 total 150x110

Petrophile trifurcata type
 Anarthrus type many heads
 Hakea spatulata lvs

E34

50x10 total

Leucopogon #2  x20
 Verticordia frutescens densiflora

✓ Calystegia agnes?

Shoenus
 fine w grass hypochaeris
 Calystegia agnes

Boronia bracteata

Calystegia agnes prostrate terete lvs

AME

Dryandis nivea

Persoonia striata

Thysanotus

—H—

Tutanning rainfall

18.1.77 9 points

Cryptogams all dead now
eg Stylidium repens etc

Tetanaeryon 1/16/77

Growth Rhythms (final obs)

Banksia attenuata

31 shoot xth fin. lfs extended but soft + pubescent
many dead lfs present. A207 + 275

Brown 100% just made + 8 below axillary 5 dead

has brown remain from bud developed

32 sst as for 31 xth fin + lfs soft, pubescent
dead lfs present 95, 70, 70 65 70 68

34 NO xth II dead lfs present + 18 OK.

35 300, 200 as for 31 but some new lfs
+ dead tips (most recent one of water shortage?)
also 6 old remain bud

35b 5 all fully xth d up to 70 long +
as for 31

Many *B. attenuata* on ground at present esp
in demography plot. New pluge of other plants
almost incorporated → this one, No flowering

32 Sst #2 all developed + as for 31
3 minute brown buds developed on #1
+ older larger on #3
(as for #4 + #6 of #33)

(2 *B. sphaerocarpa* fls in latitude mark
on Jarrah road 15/2/77.

Set up letter traps + have someone
collect them regularly
3 tree data - effect of fire on litter fall + contribution to fuel load

D. serotina 41-45

41 0 change 19 lfs p + 1 lf dead, fell off with handling

42 no recent L mm of lfs all fallen open
(elsewhere 1 fruits mature but not released)

43 as for 42 some dead lfs present

~~44~~ + removed by handling

44 A105 all lfs sclerophyllous + some dead

45 0 recent change

B. sphaerocarpa

2 new flowers kept + 1 started. Adjacent plot
with 2 flowers OK.

no signs recent shoot growth

1 0 lmm leaves 12 + 1 dead

4 0 change

2 0 lmm 7 lfs.

3 3 lfs.

5 dead

49 *Petrophila media*

lfs 20 mm + 16

occasional dead lfs present

Leptospermum

- 6 dead 0 lfs
- 7 growth stabilized dried large buds
? = galls present fruit p closed.
These buds appear OK & = res leaves but
1 dissected contained small orange nut
- 8 as for 7
- 9 0
- 10 as for 7

Laemaea 11-15

- growth stabilized all lfs ^{new} full size
but still pubescent
- 11 A 110 + yellow term^t buds p.
galls on sst apex
- 12 as for 11, A 57
- 13 as for 11, A 116
- 14 as for 11, 75
- 15 as for 11, 49 (fruit p)

Conospermum

- all growth fine, fl spikes dead but present
no seeds visible
- 10 lfs on measured stems

Hakea ruscifolia 16-20

- all lfs dead, new shoots hardened with
axial buds developed. many styles persistent & green
- 16, 17, 18, 20 no change

Coomansia h.

- 28 A 105 Lt 115. no visible growth
- 27 A 278, 278. ^{new}
- A sst for base 45, 80, 60 31, 25 35, 70 32, 32, 40, 42.5
- 29 A 220
- 30 A 210.

Aracis cynophylla with new fl buds present

Eucalyptus drummondii

- most flower buds fully developed or 3/4.
- all new foliage incorporated.
- 36. 6 dead lfs
- 37 7 dead lfs present.
- 38 all new foliage mature, fl buds 1/2-full size
- 39 foliage mature only 2 buds left - appears to
be aborting at ~ 1/2 size (fl 25+1 dead
25 lfs include ~ 19 new ones)
- 40 as for 38, buds 1/2-whole = abundant
A next 465

Dorsaria

46, 47.

46 all growth fins - as longest ones
sst has been chewed off. All others on
whole plant ferns etc. small buds seen
in each cell.

47 fruits open

50 X-ref. virtually all foliage outside
was has reflexed
= limited life of leaf < 2 yrs

Xonecip

Heath dryandra (Cymloc)

B. sphaerocarpa

Photos for Peter about tall

Control always for
forepart of

March 1984

Middle Island Second line + unburnt
Ar Pc Plots Bearing 9° to Cape Arid.

1976 from this note book

19

from ^{small} 1977
NS

1. *Phyllanthus*
Acacia rostellifera 1m away 1m tall.
Chilodactylus
Pimelea argent 1.6m
Hibbertia racemosa
Pea.

2. *Aeg* under Ar 3-5m
Leucopogon large
Pea
Hibbertia.

- 3 Young Ar 75cm
Pim. argent 20m
Phyllanthus
Chilodactylus
Pea.

vegetation.

198° Granib hill, 280 Flinders Peak 359 Goose

1980 ^{Nov} photos 25 26

1984 ^{March} from this note book

- Carpobrotus*
Trachymene
Pea
Pimelea argentea 1m
Scirpus
Hibbertia sdb.
Ac. Cyclops 1m
A. rostell sprouts 50cm.
60% bare ground.

- Trachymene* Photos 24, 27, 28, *Ac. r.* 50cm +
Carpobrotus *Pea*
Acacia r. sprouts *Carpobrotus* dead
Pim. argent. *Pim. argent.* sdb.
Scirpus *Stylid adnatum*
Pea open site
Stylid adnatum.

- Carpobrotus* photo 29-30. *A.r.* abundant all the
Trachymene *Pea*
Pim. argen' *Carpobrotus* dead
Pea *A.r.* to 50cm *Hibbertia*
Scirpus, *Pimelea argentea*

BURNT Feb 1977

1976

Ar Pc
 site 4
 Ar several dead
 alive but old ones A. cyclops
 Leucopogon revoluta
 Pimelea argentea
 Phyllanthus calycinus
 Ar junials
 Hibbertia racemosa
 Pim clavata
 moss
 Poa

burnt PCA 1976

1980 photo 3132

Pim argentea
 Poa
 Scirpus
 Anos
 Hibbertia 10cm
 Sonchus oleraceus

1984

Ar. leptoderm
 new shoots
 Poa
 Leucopogon revoluta
 Hibbertia
 Pimelea argentea ^{dying + still}
 Carpobrotus dead
 large A. cyclops near

Eucalyptus angulosa

Poa

MOSS

Oxalis

Trachypogon

Galium

Trachypogon

A. rostellifera
moss

Pimelea argentea

Carpobrotus

Poa

Styidium ^{adn. n. n.} argentea

Rhagodia

Scirpus

Sonchus

Cheilanthes

80% stems resprouting

Acacia rostellifera

2m tall some 2.5m

Pimelea clavata 2.5m

Acacia cyclops 2.5m

Poa

Carpobrotus

P. argentea

Hibbertia racemosa

P. angulosa

8 stems from nearby

ligno lubr.

Melaleuca lanceolata. 7m SW
"

Carpobrotus

Trachymene

Oxalis

moss

photo from Sm N

Eucalyptus platypus

Carpobrotus

+

of E. platypus

1980

Trachymene

Stylidium adnatum

Carpobrotus

Oxalis corniculata

moss

Pimelea clavata

Phyllanthus inopaneus

Scirpus

Cheilanthes

Hebertia raiemo

Phagelia

W. S E platypus

fallen over peg

Carpobrotus

Trachymene

Pimelea clavata etc.

photos 18, 19, 20

M. lanceolata / recently
fallen.

Trachymene

Oxalis

Cheilanthes

Phagelia

Pine clow dead.

moss

E platypus 1/2 fruit

Carpobrotus dead

Melaleuca 3m

Pine clow scatter

50cm - 1.5m

Trachymene

AA

65

Sandy Hook on Reebok Archipelago
Regen notes from Jan Creek's plates
File 6-8 Feb 1985

2nd Report

Fairy Terns burrows under Thonbuds
at Cape Horn Is.

Albizia ssp. *Lothantia*.

Melaleuca globulesa ?

? *Lycium ferocissimum* * SOLOVACEAE Thonbud

Scaevola crassifolia.

Meibomia.

E. platypus heterophylla. ? *angulosa*.

Styandra ? *imbricata* or *glauca*.

Acacia spp.

Middle Island NOV.

check list and kit,

Note books

leaved steel

Camera film.

handcram

Saltwater soap.

Rads + torch batteries

phil's boxes

Watr.

gas. 3.

Camera + film.

Bacon.

Text from AJMHI for house

Jan.

Reports to

Tony Moore

George Greaves.

Ron Burgess Orleans C.V.P.

John Cahill

Fry.

Kalgorthe fishing Mob.

4 people
(5) ydamp.

2 doz eggs
3 pts bacon
mire
sauces.

carps.
lams.
2 pt
orange
herodol
carrot
cabbage
garlic
potato
fish heads

netrop
paul.
fruit.
die.
sts
..
in
electr.
in

1988 sampling

Need more white tape for photo points

Wire left in hut in 1984.
Metal tags.

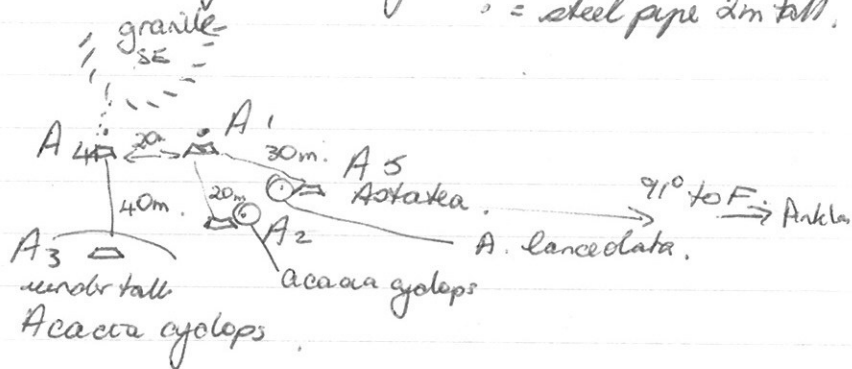
New rainwater tank.

Directions to Plots.

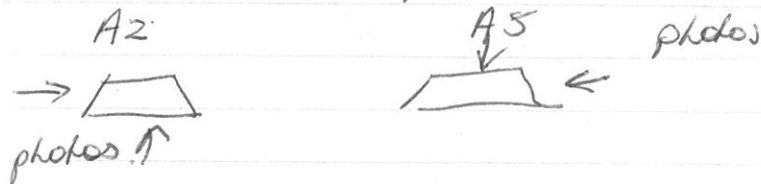
A. developement revolves.

"Bearing 200° from hut.

= steel pipe 2m tall.



Downslope



B. Mel lanceolata low open well.
Dead tree at entrance $\frac{2}{3}$ way
along eastern shore flat rock
leaning against base, tape on tree

B1. 16m east. clearing NW of plot.

B2. top of dune 35m E of B1 m
taller veg

B3 30m east of B2 on eastern slope of dune, clearing to the north, bare plot.

B4 30m E of B3.

B5 30m E again. clearing to the south east.

C Plots *E angulosa* - platypus

C1 western most. ~900m upslope from SE corner of lake. 100m into scrub bush. many large trees fallen in plot. Bear trap 328 to hut, 3° to Cape Armit, 282 to Flanders Pk.

C2 15m $\pm 75^\circ$ from C1

C3 ~~15m~~ ²² 65° from C2

C4 16m 90° from C3

C5 16m 95° from C4

C6 15m 107° from C5

C7 107° 25m from C6

C8 15m $\pm 05^\circ$ from C7.

C9 30m 185° from C8

C10 35m ~~145~~ 145° from C9.

Bear trap 322 to hut B° to Cape Armit
& 282 to Flanders Peak.

D Plots.

150 m in from *angulosa* belt on ridge behind Demestone Bay.

D1 Western most. clearing to N.

D2 ~ 25m. clearing to E.

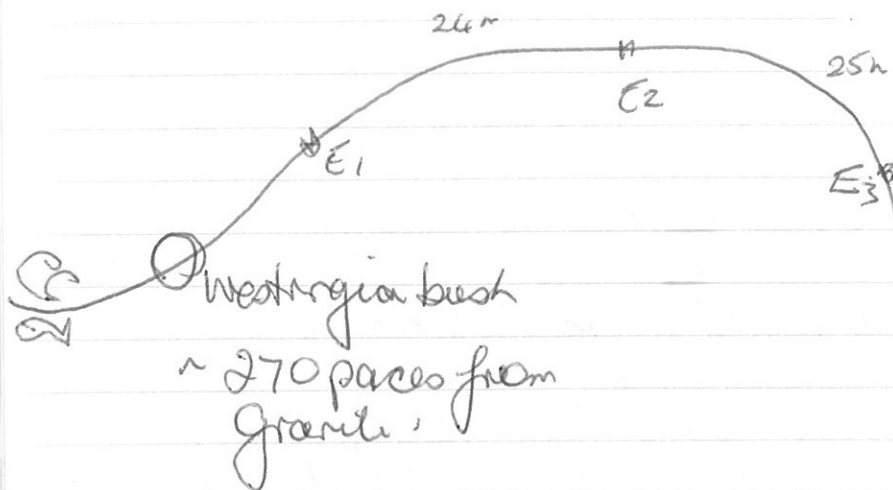
D3 ~ 25m. in thicket

D4 ~~Edge~~ 25m

D5. 5m from edge of E well.

single Ewe on southern edge of \square marked with blue tag

E plot



F Plot

91° ~ 150 m from AS.
Surrounded by blue tape.
Due south of Muis ~ 50m.

G Plots

G1. 1980, 84 nearest hut & ocean.
20m in to Acacias due North
of hut.
G2. 10m East fallen Timber.

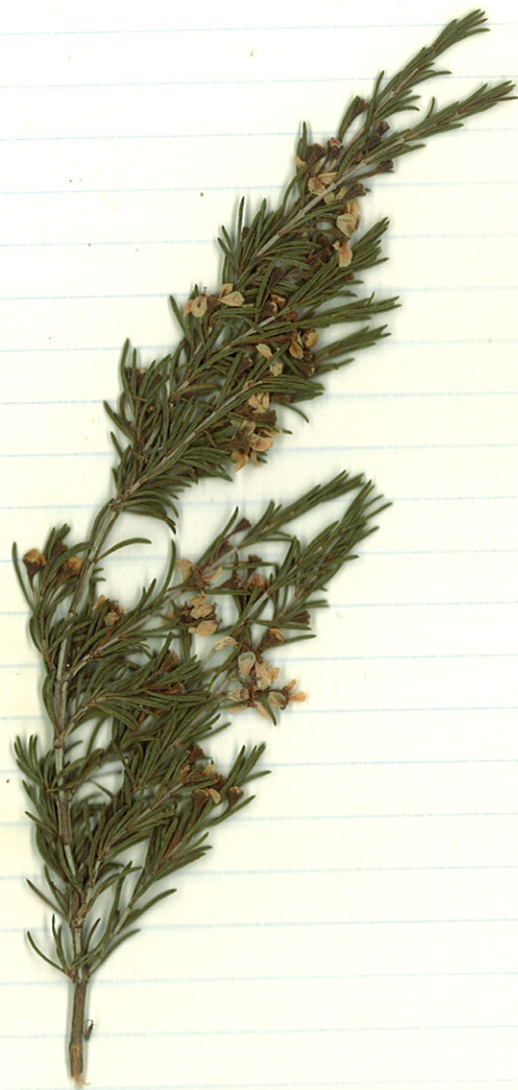
G3 10m E ~ 100° 2 trunks 30cm
diam. fallen on top of base pines

seeds
Pink lake
under Acacia

H plots ~ 30-50 m west of
G3. B

H1 7m from H2 largest log
fallen as EN died in plot
H2 bearings 90° to old live Mel
globes on point 103 to hut. 315 to
Alkain on Goose.

H3 shabby plot. 7m from H2



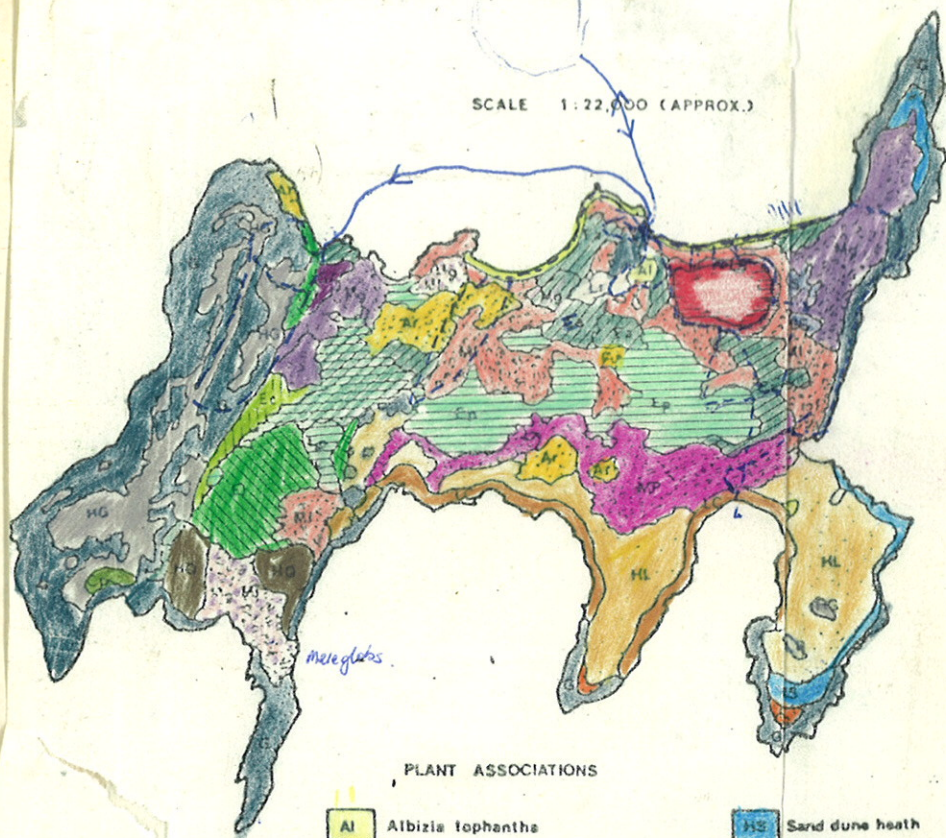
2.1.76
Phil Pheasant was wraths
catch the world Jumper Record
& Jack King

May 17 - R Fr Gloves etc
Skipper Robin Green P. duster Khazye
M. Bedetti, S Jones, T. McMahon
V. King, M. Ricci J Docker P. Brendon
K. Bell, R. Kennedy, M. Fisher, N. Roe
B. Mason, G. Birch, J. McGrath.
(all ♂) Mr Linton & Fr Gloves

Monday → Thursday
May 26 —
Meat Misses, M. Campbell, H
H. McCarthy, T. Jones, L. Jones, C. Sasche
N. Hazelden, J. Phillips, H. Thomas
+ Tom McMahon R. Kennedy
S. West & Fr Gloves.

MIDDLE ISLAND VEGETATION

SCALE 1:22,000 (APPROX.)



PLANT ASSOCIATIONS

AI	Albizia tophantha	HS	Sand dune heath
AR	Acacia rostellifera	LC	Limestone cliff
BS	Calocephalus brownii	LR	Leucopogon revolutus
EA	Eucalyptus angulosa	LS	Lake strand
EC	Eucalyptus cornuta	MG	Melaleuca globifera
EL	Eucalyptus lehmannii	ML	Melaleuca lanceolata
EP	Eucalyptus platypus	MP	Melaleuca pentagona
GA	Gastrolobium bilobum-Acacia sp	GR	Granite
HG	Granite heath	SW	Swamp
HL	Limestone heath	S	Sand
HQ	Quartzite heath	CP	Callitris preissii

AUSTRALIA, SOUTH COAST — ESPERANCE

LAT 33°52' S LONG 121°54' E

TIME ZONE —0800

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 1984

SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER								
Time	m		Time	m		Time	m		Time	m		Time	m				
1 SA	0048 0741 1037 1656	0.9 0.6 0.7 0.4	16 SU	0054 0737 1150 1741	0.9 0.5 0.6 0.3	1 TH	0037 1601 2352	0.8 0.3 0.8	16 FR	0111 1443	0.9 0.3	1 SA	0020 1413 2241	0.8 0.5 0.7	16 SU	0111 1256 2050	0.7 0.4 0.7
2 SU	0107 0758 0943 1652	0.9 0.7 0.7 0.3	17 MO	0115 0824 1124 1730	0.9 0.5 0.6 0.3	2 FR	0441 0807 1537 2241	0.7 0.8 0.4 0.7	17 SA	0605 1437 2150	0.8 0.3 0.7	2 SU	0648 0735 1413 2109	0.6 0.6 0.5 0.8	17 MO	0315 0737 1322 2037	0.6 0.7 0.5 0.9
3 MO	0139 0552 0903 1705	0.9 0.8 0.8 0.3	18 TU	0137 1711	0.9 0.3	3 SA	0252 0839 1522 2152	0.7 0.8 0.4 0.8	18 SU	0215 0750 1443 2122	0.6 0.8 0.3 0.8	3 MO	0328 0837 1420 2105	0.6 0.7 0.5 0.9	18 TU	0348 0903 1346 2048	0.5 0.6 0.5 1.0
4 TU	0235 0458 0843 1720	0.8 0.8 0.9 0.3	19 WE	0222 1646	0.8 0.3	4 SU	0309 0907 1524 2145	0.6 0.8 0.4 0.9	19 MO	0256 0850 1456 2124	0.5 0.9 0.4 0.9	4 TU	0346 0916 1426 2113	0.5 0.7 0.5 1.0	19 WE	0428 1009 1407 2113	0.4 0.6 0.5 1.1
5 WE	0903 1728	0.9 0.3	20 TH	0735 1635	0.9 0.3	5 MO	0333 0931 1531 2148	0.5 0.8 0.4 0.9	20 TU	0339 0941 1513 2139	0.4 0.8 0.4 1.0	5 WE	0413 0946 1431 2124	0.4 0.6 0.5 1.0	20 TH	0509 1111 1422 2139	0.3 0.6 0.5 1.2
6 TH	0028 0200 0926 1718 2333	0.7 0.7 1.0 0.3 0.7	21 FR	0016 0105 0837 1637 2313	0.7 0.7 1.0 0.2 0.7	6 TU	0400 0952 1537 2154	0.4 0.8 0.4 1.0	21 WE	0422 1026 1528 2158	0.3 0.8 0.5 1.1	6 TH	0437 1013 1443 2141	0.3 0.6 0.4 1.1	21 FR	0548 1209 1424 2207	0.2 0.5 0.5 1.2
7 FR	0248 0952 1711 2305	0.6 1.1 0.4 0.7	22 SA	0230 0922 1645 2254	0.6 1.1 0.2 0.7	7 WE	0426 1013 1541 2207	0.4 0.8 0.4 1.1	22 TH	0507 1109 1533 2218	0.3 0.7 0.5 1.2	7 FR	0503 1035 1458 2205	0.3 0.6 0.4 1.2	22 SA	0626 1258 1411 2235	0.2 0.5 0.5 1.2
8 SA	0324 1015 1716 2303	0.5 1.1 0.4 0.7	23 SU	0318 1003 1700 2256	0.5 1.2 0.2 0.8	8 TH	0452 1033 1548 2224	0.3 0.7 0.4 1.1	23 FR	0552 1148 1518 2239	0.2 0.5 0.5 1.2	8 SA	0531 1058 1513 2231	0.2 0.5 0.4 1.2	23 SU	0701 1322 1420 2300	0.2 0.4 0.4 1.2
9 SU	0354 1035 1726 2307	0.5 1.1 0.4 0.8	24 MO	0403 1043 1716 2311	0.4 1.2 0.3 0.8	9 TH	0452 1105 1637 2248	0.3 0.9 0.4 1.1	24 FR	0520 1054 1558 2246	0.3 0.7 0.4 1.1	9 SA	0603 1122 1522 2300	0.2 0.5 0.4 1.2	24 MO	0731 1318 1454 2322	0.3 0.4 0.4 1.1
10 MO	0420 1052 1737 2313	0.4 1.1 0.4 0.8	25 TU	0445 1118 1735 2328	0.3 1.1 0.3 0.9	10 WE	0452 1139 1637 2303	0.3 0.7 0.4 1.1	25 TH	0550 1115 1601 2309	0.2 0.6 0.3 1.1	10 SA	0641 1148 1531 2330	0.2 0.4 0.3 1.1	25 TU	0758 1218 1528 2345	0.3 0.4 0.4 1.1
11 TU	0446 1109 1743 2324	0.4 1.0 0.4 0.9	26 WE	0528 1152 1748 2343	0.3 1.0 0.4 0.9	11 TH	0518 1105 1652 2313	0.3 0.8 0.4 1.0	26 FR	0624 1133 1600 2331	0.2 0.5 0.3 1.1	11 SU	0722 1216 1541	0.2 0.4 0.3	26 WE	0815 1154 1556	0.4 0.4 0.4
12 WE	0516 1126 1750 2343	0.4 1.0 0.4 0.9	27 TH	0607 1213 1745 2350	0.3 0.8 0.4 1.0	12 FR	0548 1124 1658 2333	0.3 0.7 0.3 1.0	27 SA	0703 1054 1518 2324	0.3 0.4 0.4 1.1	12 MO	0701 1139 1600 2354	0.3 0.4 0.3 1.1	27 TH	0009 0822 1220 1620	1.0 0.4 0.5 0.4
13 TH	0548 1145 1800	0.4 0.9 0.4	28 FR	0646 1150 1658 2354	0.4 0.6 0.4 1.0	13 SA	0620 1141 1656 2354	0.3 0.6 0.3 1.0	28 SU	0800 0913 1503 2341	0.3 0.4 0.3 1.1	13 WE	0750 1122 1518	0.3 0.4 0.3	28 TH	0030 0830 1315 1637	0.9 0.4 0.5 0.5
14 FR	0005 0622 1201 1803	0.9 0.4 0.8 0.4	29 SA	0720 1022 1605	0.5 0.6 0.3	14 MO	0656 1143 1646	0.3 0.6 0.3	29 TU	0016 0922 1043 1543	1.0 0.4 0.4 0.3	14 WE	0028 1535	0.9 0.4	29 TH	0100 1028	0.9 0.4
15 SA	0030 0658 1207 1758	0.9 0.4 0.7 0.4	30 SU	0703 1048 1600	1.0 0.6 0.3	15 MO	0013 0733 1124 1643	1.0 0.4 0.5 0.3	30 TU	0041 1500	0.9 0.3	15 WE	0045 1511	0.8 0.4	30 TH	0035 0907 2350	0.8 0.5 0.7
						31 WE	0026 1558	0.9 0.3						31 MO	0935 2022	0.5 0.8	

Fryer's Road
End of Post Office

ARROWDA STATION

LEN OTTEY

ORLEANS FARM

MR. SMITH

CAPE MR. ID
NOT PAVED

Road to
100 ft

Estimate

CAMP
CAMP

