

HORS

Moku Manu

16 May '67

RFB on top

1 small downy chick

1 sdc

1 e

int phase

~~egg~~

||||| ||||| ||||| ||||| ||||| (48)

egg

sdc

||||| ||||| ||||| ||||| ||||| (15)

mdc

ldc

Naked

||||| ||||| ||||| ||||| ||||| (4)

nests/no egg

757-60 538 ~ naked chick

next page

B Ruby
2 eggs in portulaca

egg // 2 eggs
naked

SDC

MDC //

LDC

~~///~~ (35)

RFB

Egg	 	17
naked	 	13
SDC	 	5
MDC	 	20
LDC		
Nest	/	/

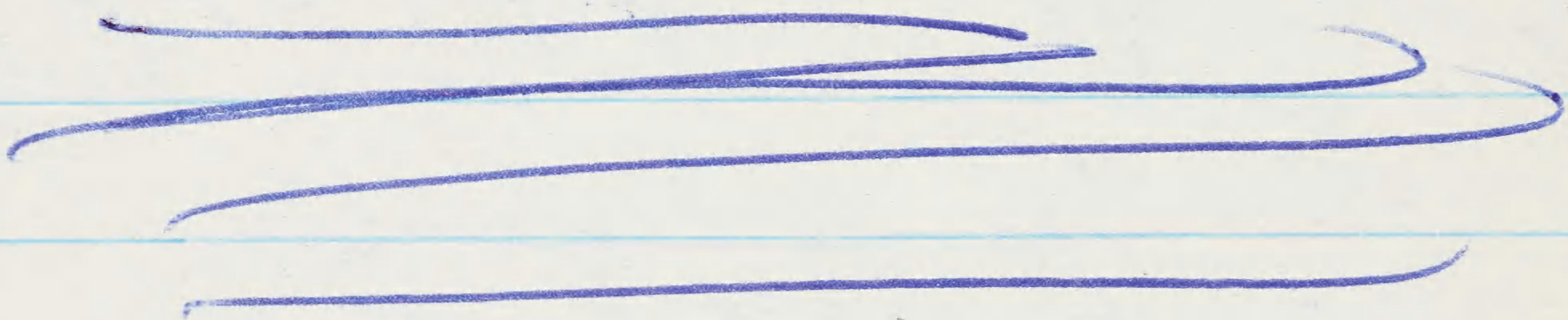
Bare	4, 1	(5)
e	48, 17	(65)
Nab -	13, 35	(48)
SDC	15, 5	(20)
MDC	29, 20	(49)
LDC	- -	

Positive rat

small - looks like

dark pelage rattus rattus

4:30 afternoon



Afternoon Tuesday

light variable winds

2-5 knots -

light high overcast

with windward Oahu

heavy overcast

but not extending

this far out

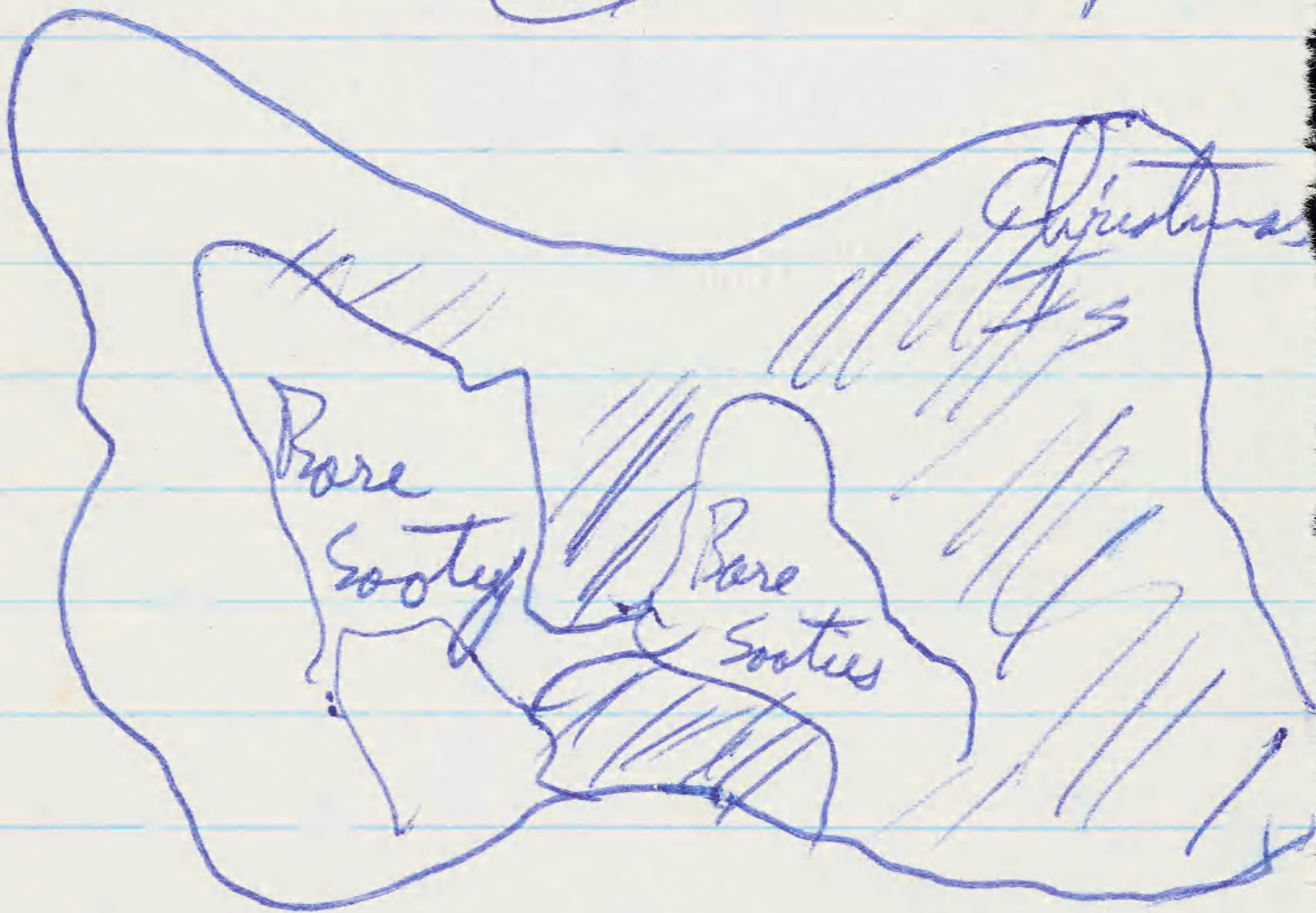
Sooty terns

no egg float run

Sooty terns ~~fledged~~
chicks are half
down & feathered on
wings and sides tractors

Red-foots
almost wholly nesting
in Chenopodium obovense
nests low about 1 1/2 feet
off ground

Chenopodium



Brown Body

Continuous spectrum

~~Lea~~

Bands

767-534~~01~~-01-

767-53298-300

298	F / N	chib
299	M /	MDC
300	F /	MDC
401	SD	N&H
402	A	SDC
03		SD
04		MD
05		R
06		N&H
07		MDC
08		R
09		R
10		R
11		SD
12		MP

13

LDC

14

MD

15

16

17

18

19

LD

20

MD

21

NC

22

MD

23

~~MD~~

NC 44-725-929

24

LD

25

MD

26

E

27

LD

28

SD

29

NC

30

NC

31 - E
32 ~~NE~~ Rost
33 Sub Ad
34 N e
35 N e
36 M D
37 M D
38 M D
39 N e
40 N e
41 ~~SDC~~ SDC
42 ~~SDC~~ SDC
43 R SD
44 ~~R~~ R
45 SN
46 RRR
47 OF
48 OF
49 N e
50 SD

51	Ne
52	Ne
53	N E
54	N N
55	SDC
56	E
57	E
58	N SD
59	N SD
60	R
61	R
62	MD
63	R
64	MD
65	MD
66	MD
67	R
68	OE
69	SNE
70	R

71	MD
72	MD
73	R
74	R
75	R
76	SD
77	<u>Sub Adult</u>
78	R
79	R
80	R
81	OE
82	Ne
83	SDC
84	OE
85	R
86	R
87	OE
88	OE
89	OE

90

R

91

OE

92

R

93

SDC

94

R

95

R

96

OE

97

SD

98

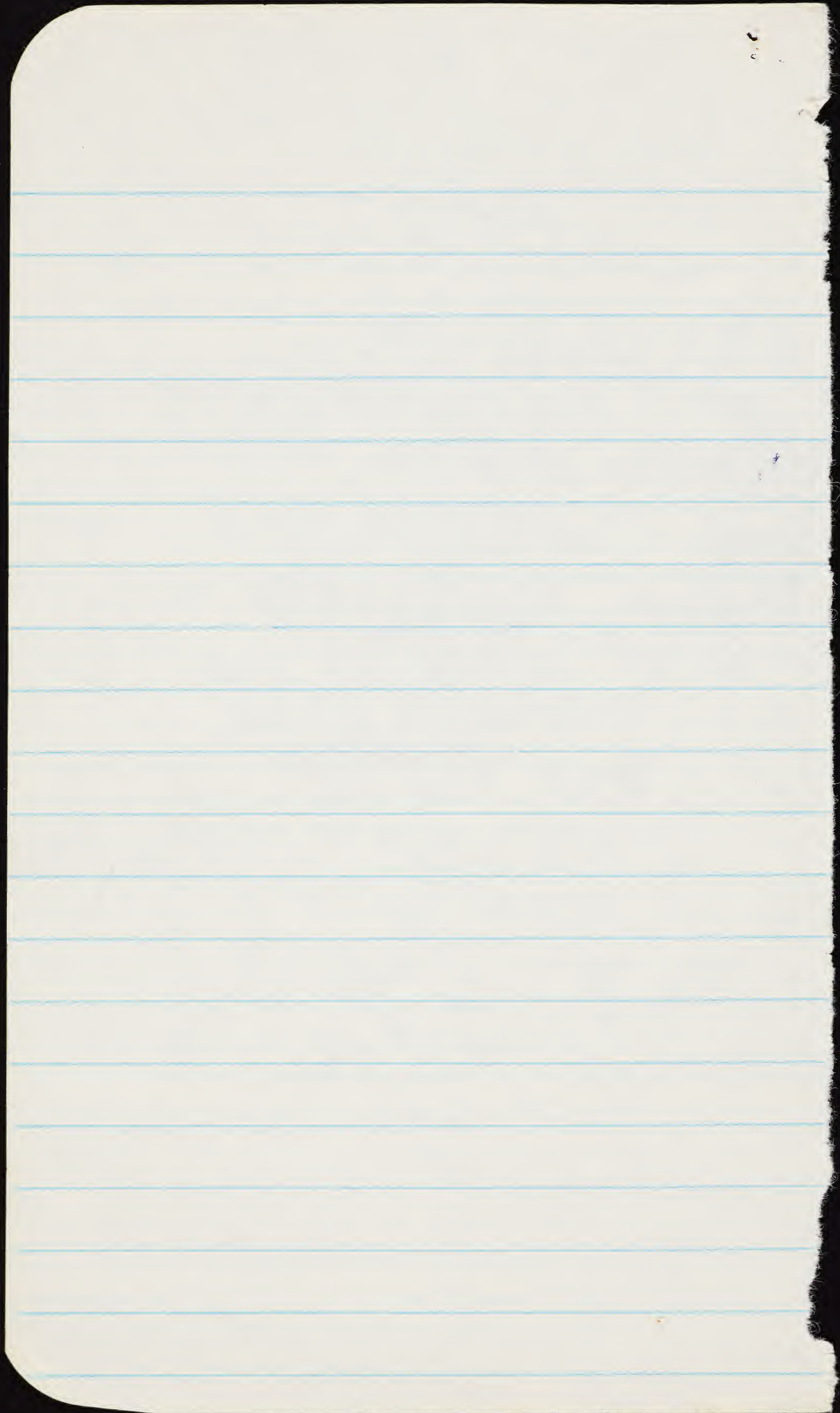
SN

99

~~SADALT~~

100

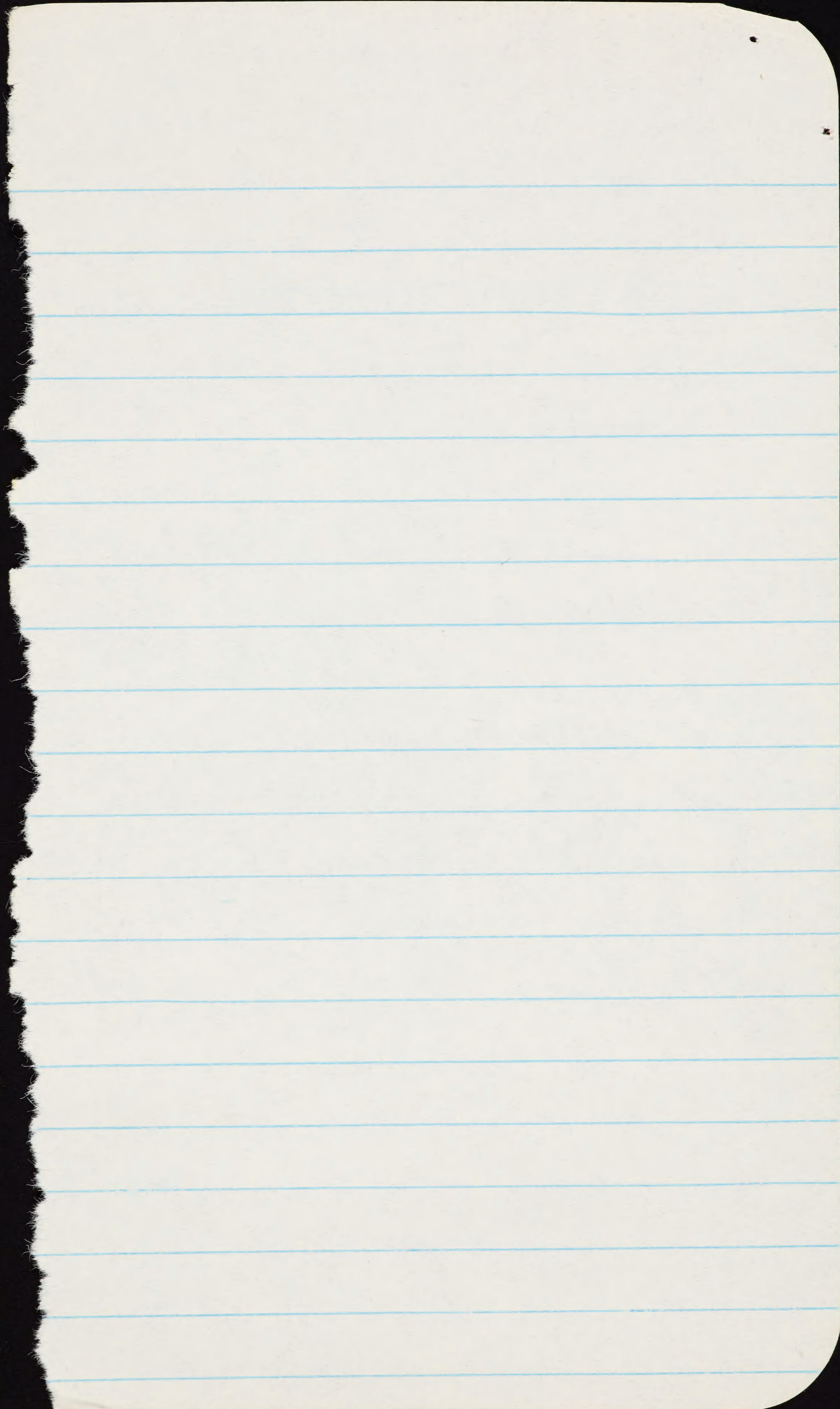
R



Frank Smith
Moku Manu
16 May '67

General Notes

Redfooted Boobies are nesting
~~in fairly uniform density~~ over
the top of the island in
Chenopodium Oahuensis
using same as nesting material
Nests average about 1 ft. off
the ground. All birds seen
were light phase except one Int
Phase. The area of greatest
density is at N and E ends
of island where nests are
about 10 ft apart on the
average



Sooty Terns

Have suffered severe nesting failure over the entire island. Estimated 100,000 rotten eggs. Small survival rate among young - no more than 1500 chicks (2 to 3 weeks old) are still alive. Estimate of 3000 dead chicks found over island. Estimate of 20,000 adults swirling over island at 1630.

Christmas Island Shearwater

2 nests found (each containing
1 egg) in rock crevices
at north end of island.

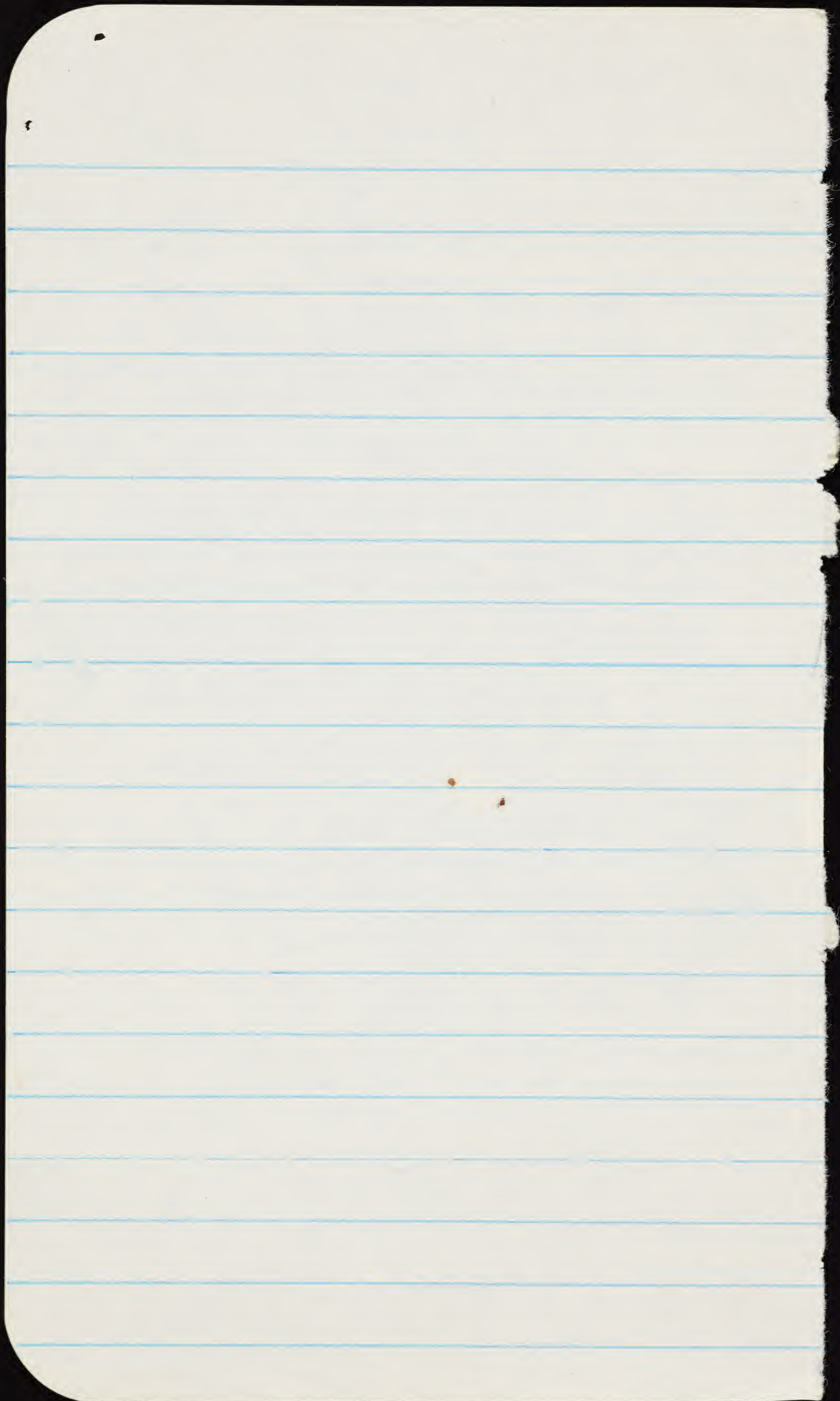
Undoubtedly many more
were undiscovered.

Common Noddy Tern

Haw Noddy Tern

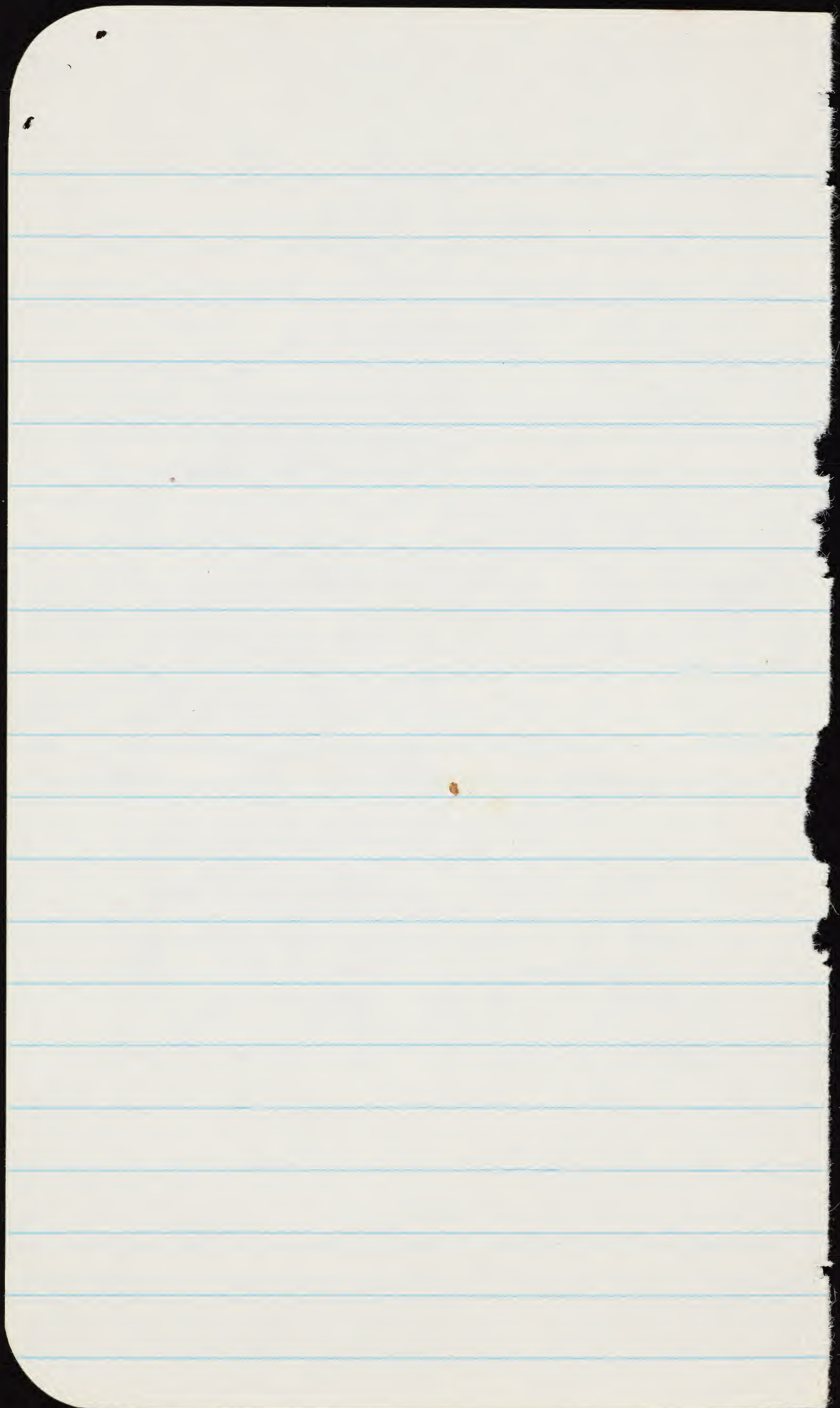
Red footed Booby Banding
16 May

767-53301



Great Frigatebird

1630 - approx 500 roosting
on edges of cliffs around
W, N, E ends of island -
roosting in *Chenopodium*
Oahuensis - the dominant
plant on the top. Estimated
additional 1000 birds in
air over sooty tern colony



Stadel

Moku Manu

16 May 67

Brown Booby

OE	OZE	Ne	S De	
III	III	III	III III	
III	IIII III	III		
	IIII	III	II	
5	III	13		
	20			

MDC	L DC	Imm	B rd
-----	------	-----	------

III	IXII		
-----	------	--	--

III			
-----	--	--	--

III			
-----	--	--	--

	6		
--	---	--	--

5			
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RFB



LDC

Imm

Birds

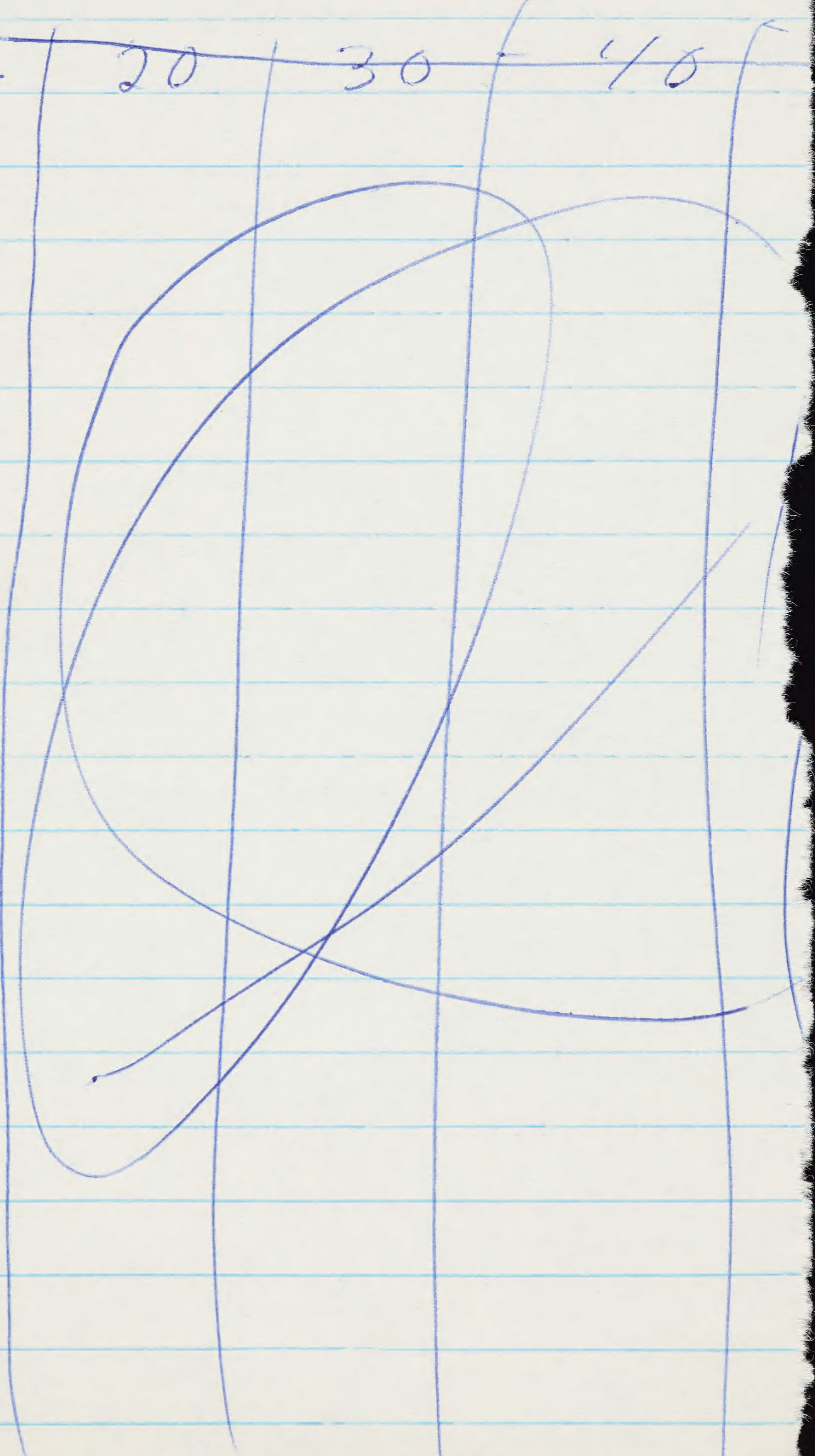
~~© sm A ©~~

Ch-

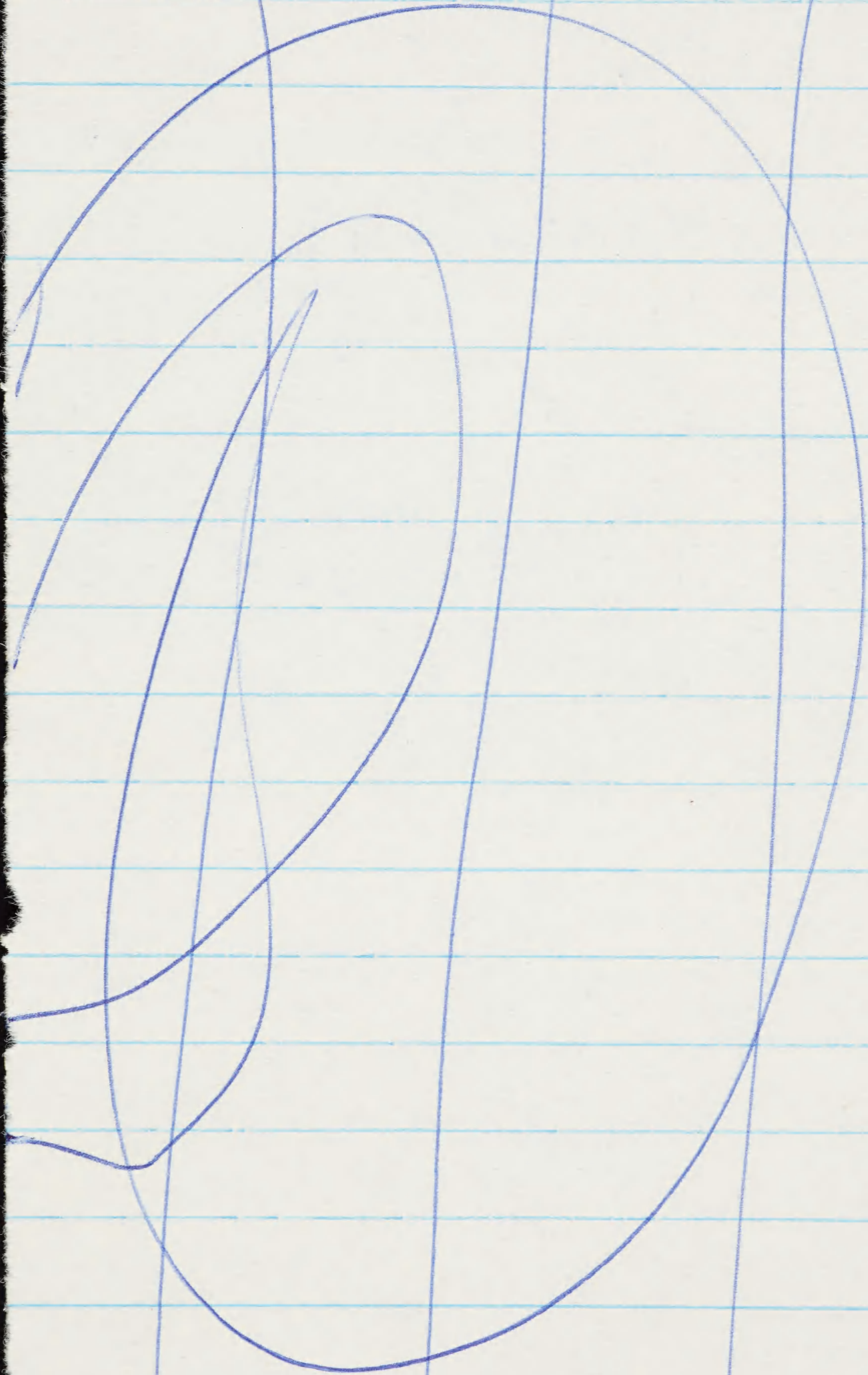
20

30

40



50 60 70 80 90



Sooty T

Chick 36 days
10

10 chicks

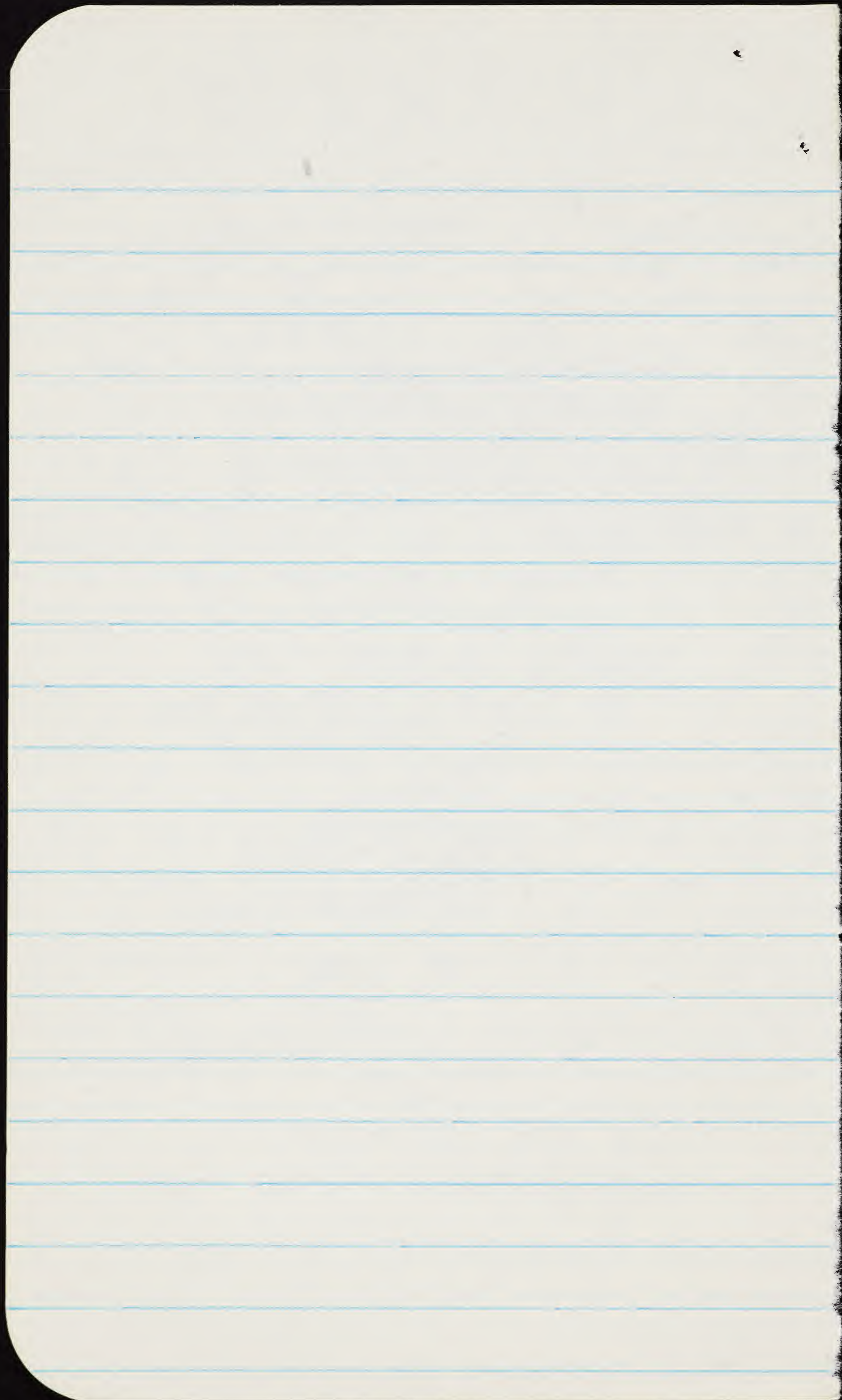
20 - 50,000 Rotten Eggs

GB Tern

Chick 80+ days

10-30-58

100 Nests all chicks



Blue-face B

O 2 E

RFB Returns

757-89648

MDC

Great Frigate

100 Birds No Nests

Wedgetail

No Eggs found
Estimate

F.C. Thompson

16 May 1967

~~MANU MANU~~

MOKU MANU

Returns

737-43605
ADIP-Systems

767-50399
Black-INC
INC 369

WG
1E Not
###

WOG

1

6

INC

###

###

###

###

###

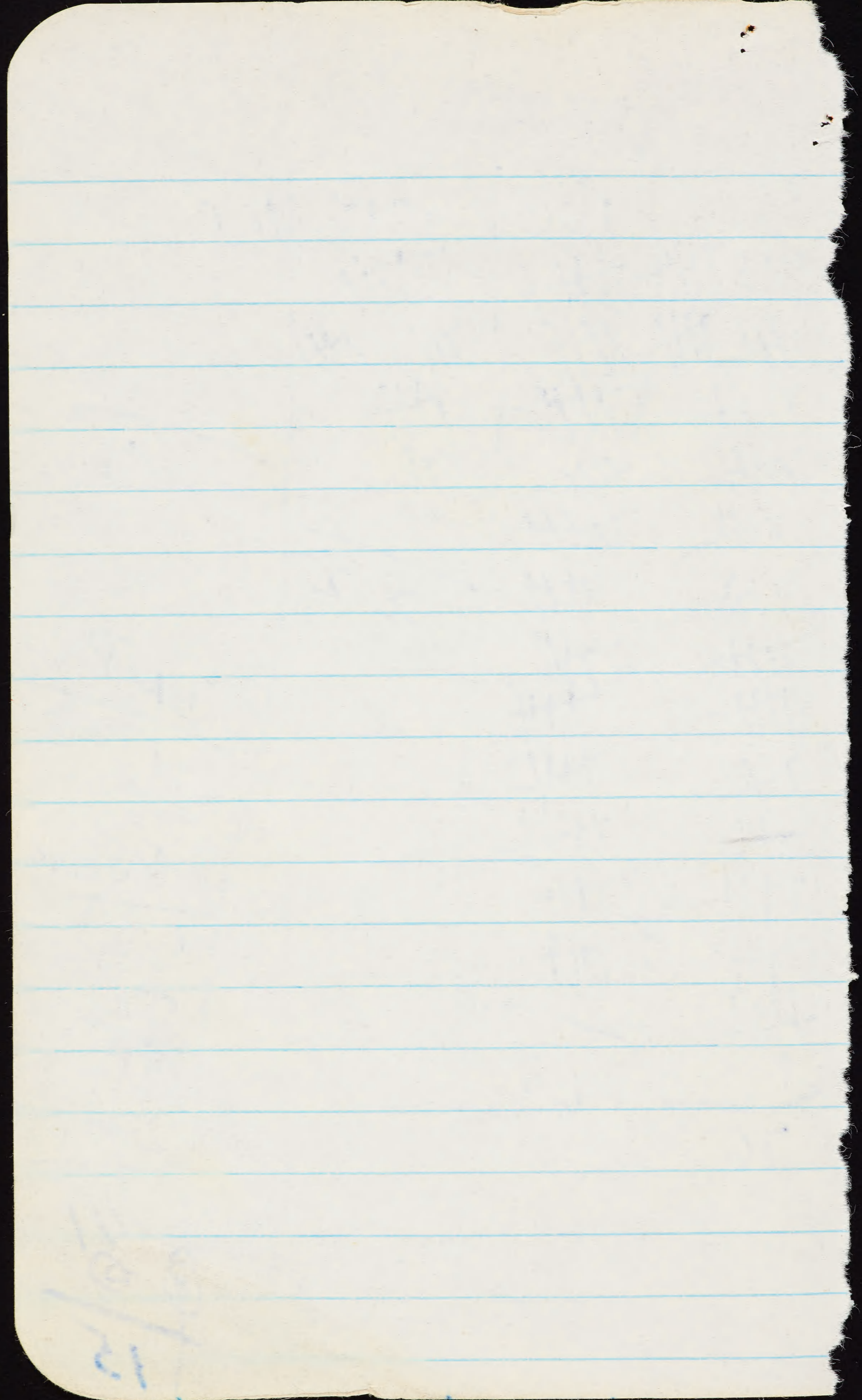
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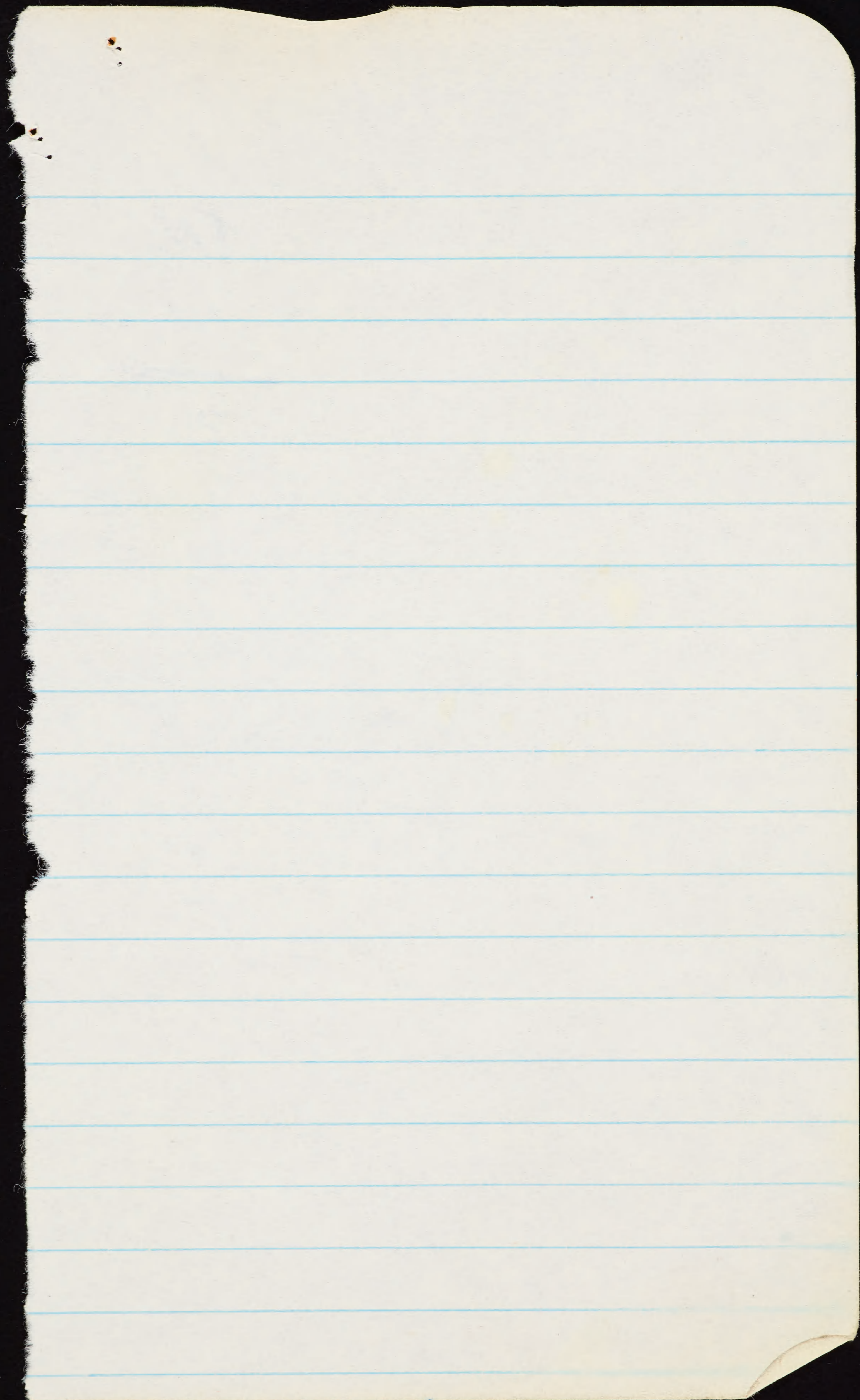
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###

1

41





INC

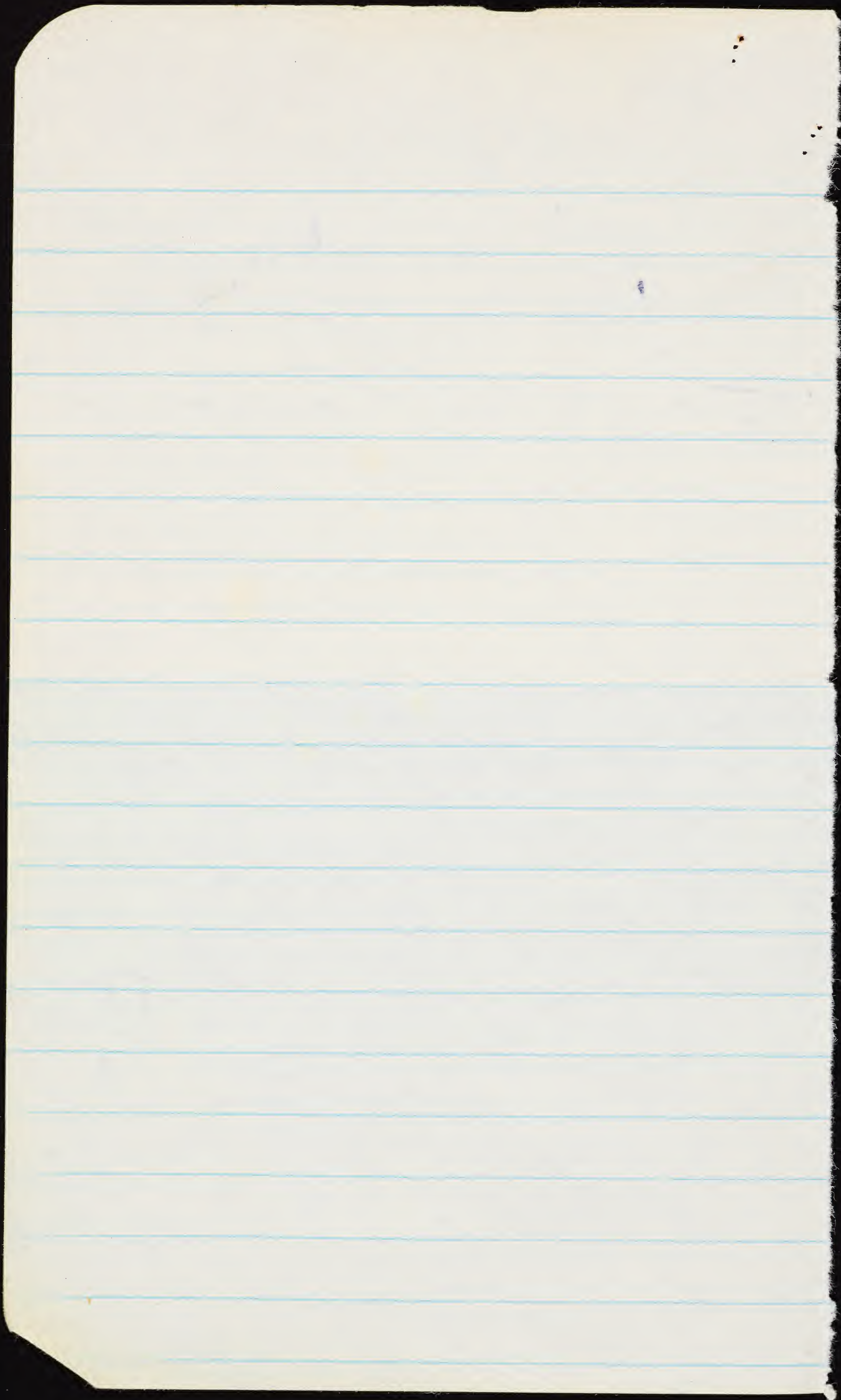
11

2

BS

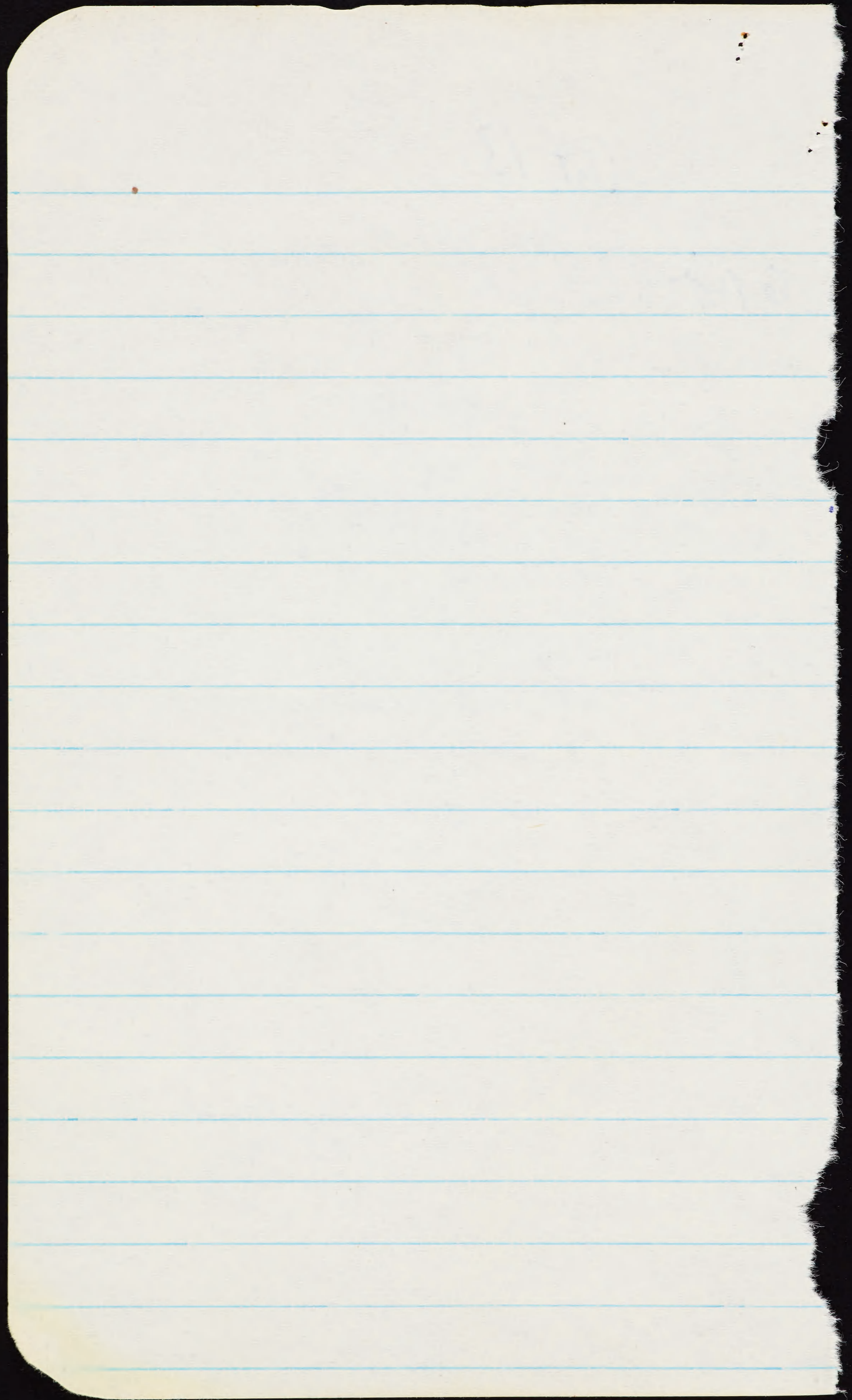
1E	2E	3DC	4E	1LC
 	 	 	 	
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
5	6	5	13	4

Jmm
!



BFB

GADs.



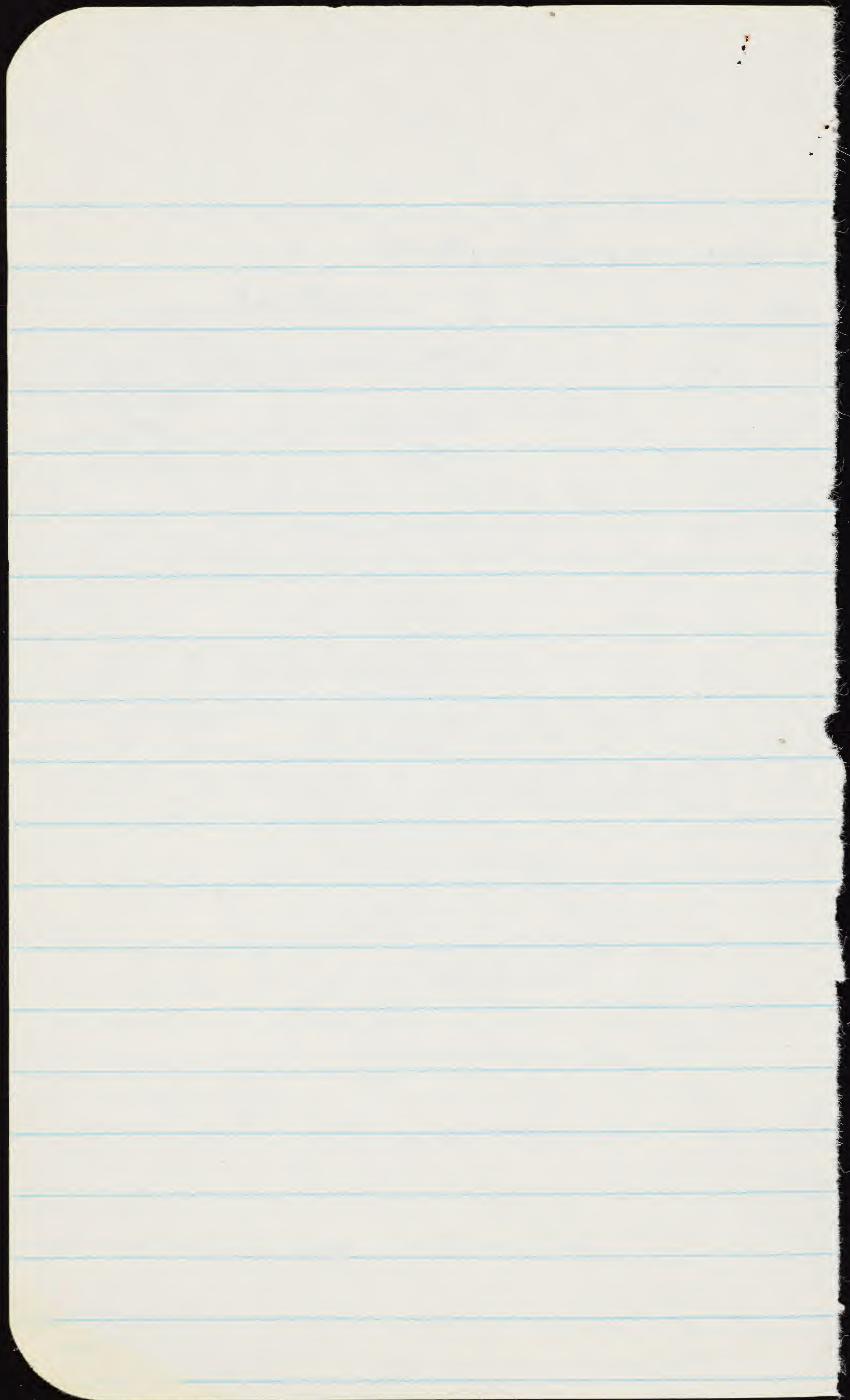
ST

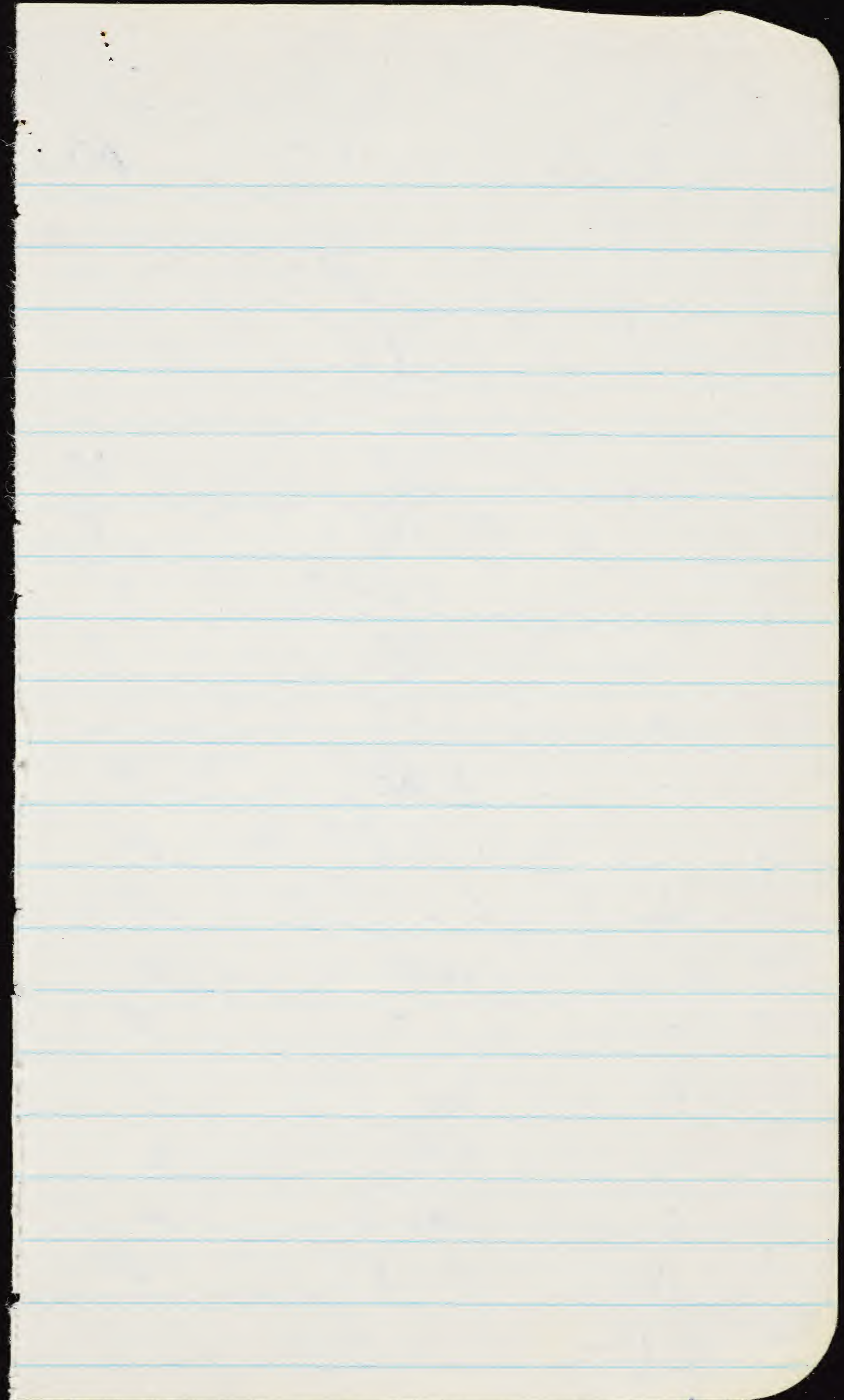
- large scale nest failure

→ only about 1000 chicks

alive - 150,000 rotten eggs

50,000 Dead chicks





X indicates chick killed for gross serum sample

<u>Specimens</u>	<u>Status</u>	<u>Sex</u>
1 294 NFB	INC	M
2 95 D	IE	-
3 96	INC	M
4 97	IE	-
5 98	IE	-
6 99	IE	M
7 300	IE	F
8 301	1SD ^{x1}	F
9 302 Sm	IE	F
10 303 *	1SD	M
1 05	1 SK	M
2 05 sm	1SD ^{*2x}	M
3 07 D	IE	-
4 08 sm	INC	M
5 08 sm	INC	F
6 09	IE	F
7 10 D	INC	M
8 12 sm	IE IE	M M
9 12 puff	IE IDC	F
20 314 D	INC	-

all LP
except
if noted

(BAND)
767-53201

202

03

04

05

06

07

08

~~789~~ 757-60789

09

10

11

12

767-50399

14 ~~767-53201~~

- 16

- 15

- 18

- 19

- 20

JNT

	Species	Status	Sex
21	H 314	INC	M
2	H 316	IE	F
3	H 17	IE	F
9	D 18	INC	F
5	H 19	IMC ^{4x}	F
6	H 20	IMC ^{5x}	M
7	S 21	ISD	F
8	H 22	IE	M
9	D 23	INC	F
20	H 324	IE	-
1	D 25	IE	-
2	Gw 26	IPC	F
3	H 27	IE	F
4	D 28	IE	M
5	D 29	INC	F
6	Gw 30	INC	F
7	Gw 31	IDC	F
8	H 32	IE	M
9	S 33	IE	F
40	D 334	ISDC	F

decrease all following sera sample numbers by 1

BAND

- 13

- 17

- 21

- 23

- 24

- 25

- 26

737 - 45051

- 27

- 28

- 29

- 30

- 31

- 32

TRANSACTIONS - 33

↳ 737 - 45015

- 34

- 35

- 36

737 - 45017

- 7x without Parents

41	335	M	1 MC67	M
2	36	Sm	1 SDC	F
3	37	H	1 E	M
9	38	Sm	1 SDC	M
5	39	H	1 U	M
6	40	D	1 NC	F
7	41	S	1 E	F
8	42	D	1 E 1 DC	M
9	43	S	1 NC	M
50	344	H	1 DC	M
1	45	S	1 DC	F
2	46	AS	— R	F M
3	47	S	1 DC	M
4	48	O	1 DC	—
5	49	H	1 SDC	F
6	50	D	1 SDC	F
7	51	D	1 SDC 8x	F
8	52	Sm	1 SDC	M
9	53	Sm	1 NC	M
60	354	O	1 NC	F

737-45014

— 39

— 38

— 37

— 40

— 41

—

43

— 47

— 44

— 46

— 48

767-47103

— 49

737-45016

— 50

— 51

737-45086

— 52

— 53

—



RFB

61	355	M	1E	M
2	365		1SDC (9x)	F
3	57	D	1E	
4	58	M	1MC (10x)	M
5	59	D	1E	F
6	60	S	1MC (11x)	M
7	61	D	1SDC	M
8	62	S	1SDC	F
9	63	S	1SDC	M
70	364	S	1SDC	M
1	65	D	1E	F
2	66	H	1MC (12x)	F
3	67	D H.	1MC (13x)	F
4	68	D	1E	F
5	69	S	1SDC (14x)	F
6	70	S	R	M
7	71	D	1SDC	M
8	72	S	1MC (15x)	F
9	73	S	1SDC	M
80	374	D	1E	F



- 55

737-45029

—

- 57

737-45008 - ~~54~~

56

- 59

- 58

- 60

- 61

- 62

- 63

- 64

- 65

- 66

- 67

- 68

- 69

- 70

71

20x $\frac{16x}{17x}$ I no parents died →

81	375 D	1E	-
2	78 D	1E	M
3	78 H	1NC	M
4	78 S	1NC	F
5	79 S	1E	M
6	80 H	1SDC	
7	84 Sm	1E	M
8	83 Sm	1SDC	F
9	87 D	1SDC	F
90	384 H	1SDC	F
1	85 S	1SDC	M
2	86 S	R	SubA
3	87 D	R	SubA
4	88 H	1E	M
5	89 D	1SDC ^{17x}	F
6	90 H	1E	-
7	91 S	1E	F
8	92 D	1E	M
9	93 S	1SDC ^{18x}	F
100	394 H	1MC ^{19x}	F



-72

-73

-75

-74

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-76

-77

-78

-80

-81

-82

-83

-84

-85

~~-86~~ Pred

-87

-86

-88

-89

-90

INT

↖

R
in



1

2

121 15 ST Sm
 2 14 H
 3 17 Sm
 4 18 D
 5 19 Sm
 6 20 Sm
 7 21 H
 8 22 H
 9 23 D
 130 42 ~~3~~ Sm
 1 25 Sm
 2 26 D
 3 27 H
 4 28 Sm
 5 29 Sm
 6 30 Sm
 7 31 H
 8 32 Sm
 9 33 D
 140 ~~434~~ ~~433~~ Sm

BP
 T
 B
 P
 P
 T
 T
 T
 T
 T
 T
 B
 T
 T
 R
 R
 None
 R
 R
 B

P
in

R

n



Great Frigate

Sep
M

141 ~~34~~ S

R

2 36 H 5

M

3 37 O 6

M

4 38 S 7

M

5 39 D (8)

SUB ~~AD~~

6 40 D 9

M

7 41 S 10

M

8 42 H 11

M

9 43 S (12)

SUB ~~AD~~

150 ~~44~~ D / 443

M

1 45 D 4

M

2 46 H 5

M

3 47 S 6

M

4 48 S 7

M

5 49 D 8

M

6 50 S (13) (14)

F

7 51 H 50

M

8 52 D

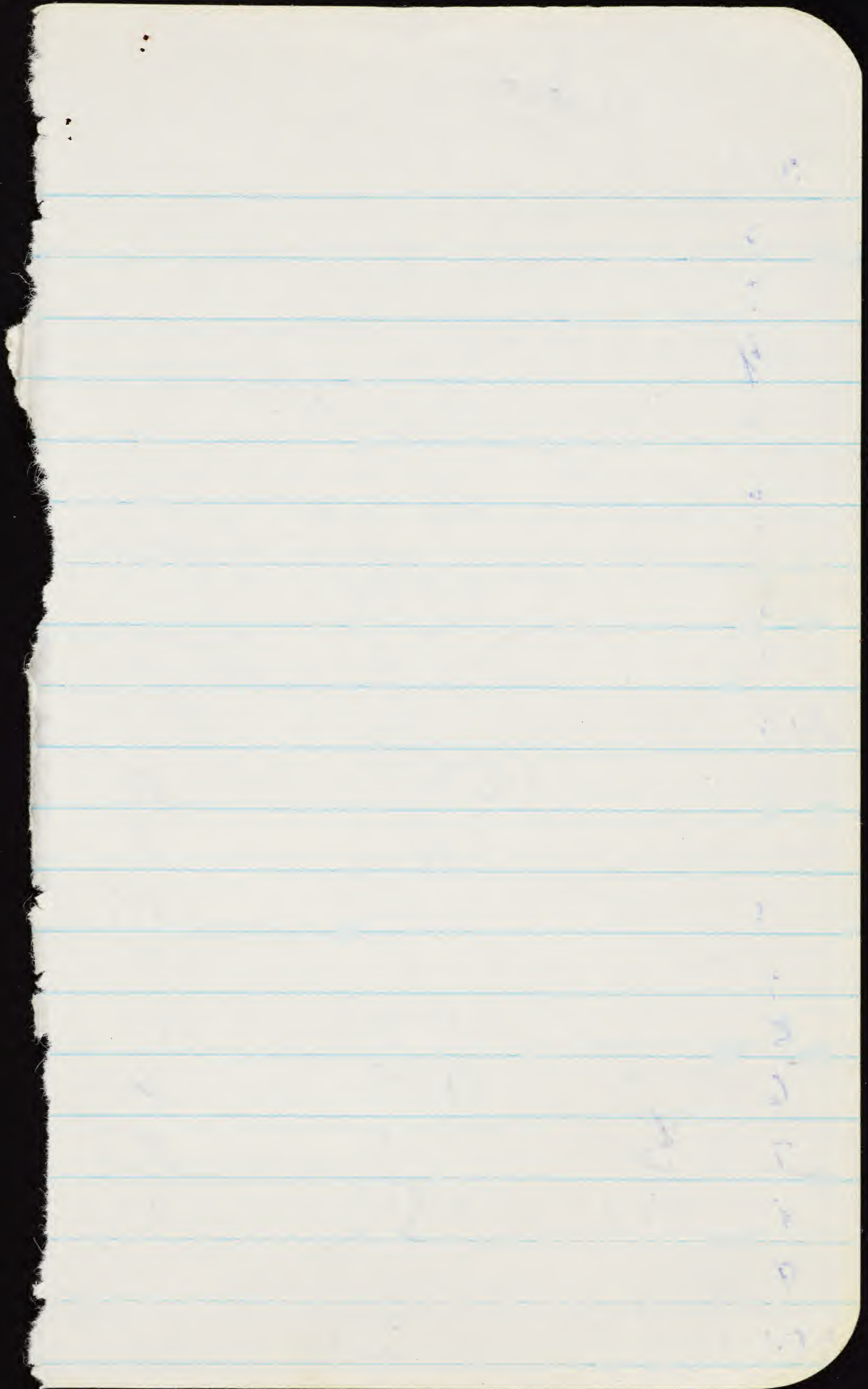
M

9 53 S

M

140 ~~54~~ D 453

M



Bladder

181

2

3

4

5

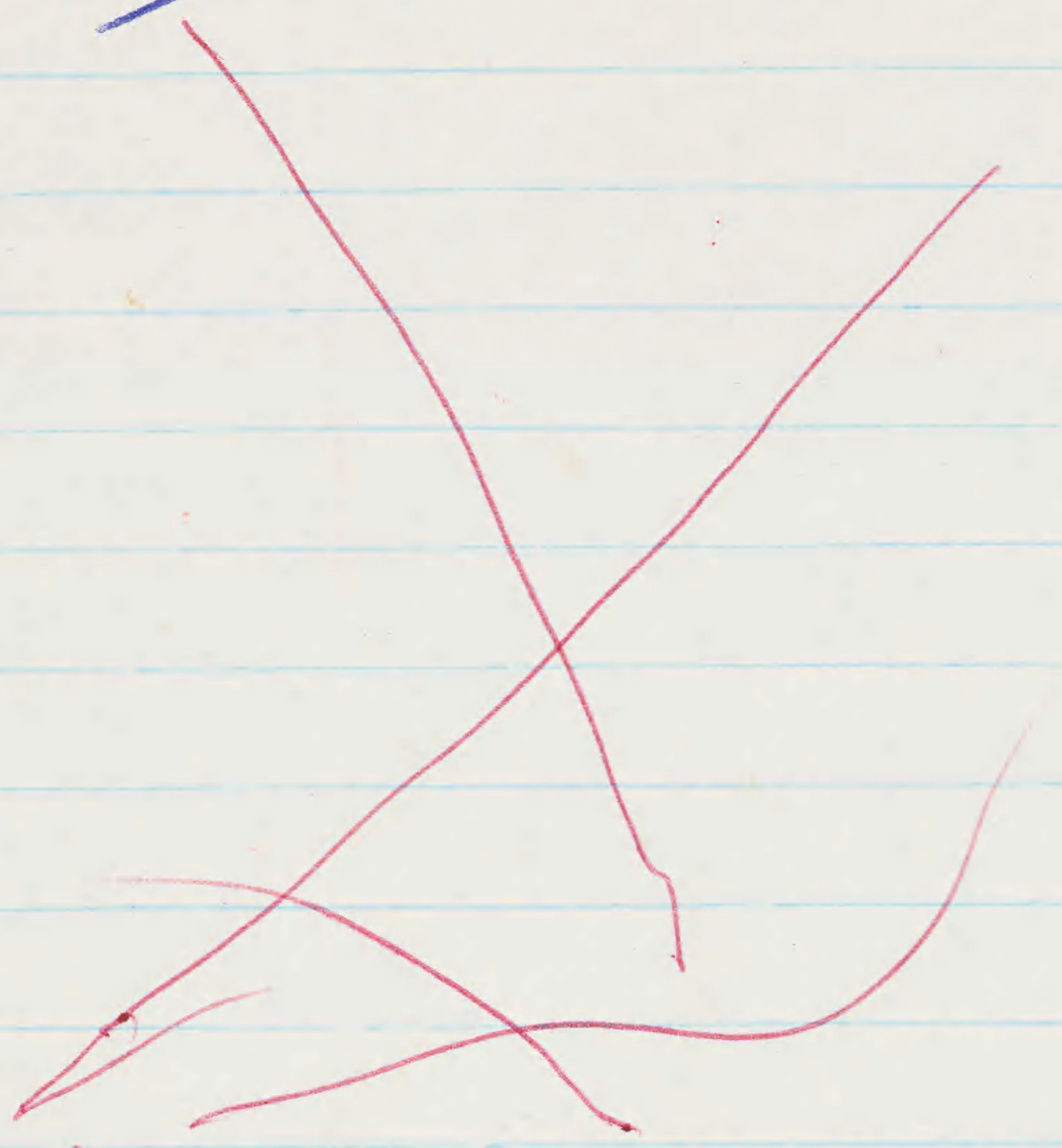
6

7

8

9

190



1 45st

1 LDC

M

2 56⁵

1 SDC

M

3 57⁶

1 MDC

M

4 58⁷

F

5 59^{4 sm}

1 MDC

M

6 60^{BB} D 9

1 SDC

A F

7 61^{BB} B 60

1 E

A F

8 62^{BBH} 1

1 SDC

M

9 63^{BBH} 2

1 E

M

200 46⁴ BB sm 3

2 E

M

Specimens



Brown Boobies

} Pair



- 96

- 97

95

94

- 93

- 92

- 91

- 45

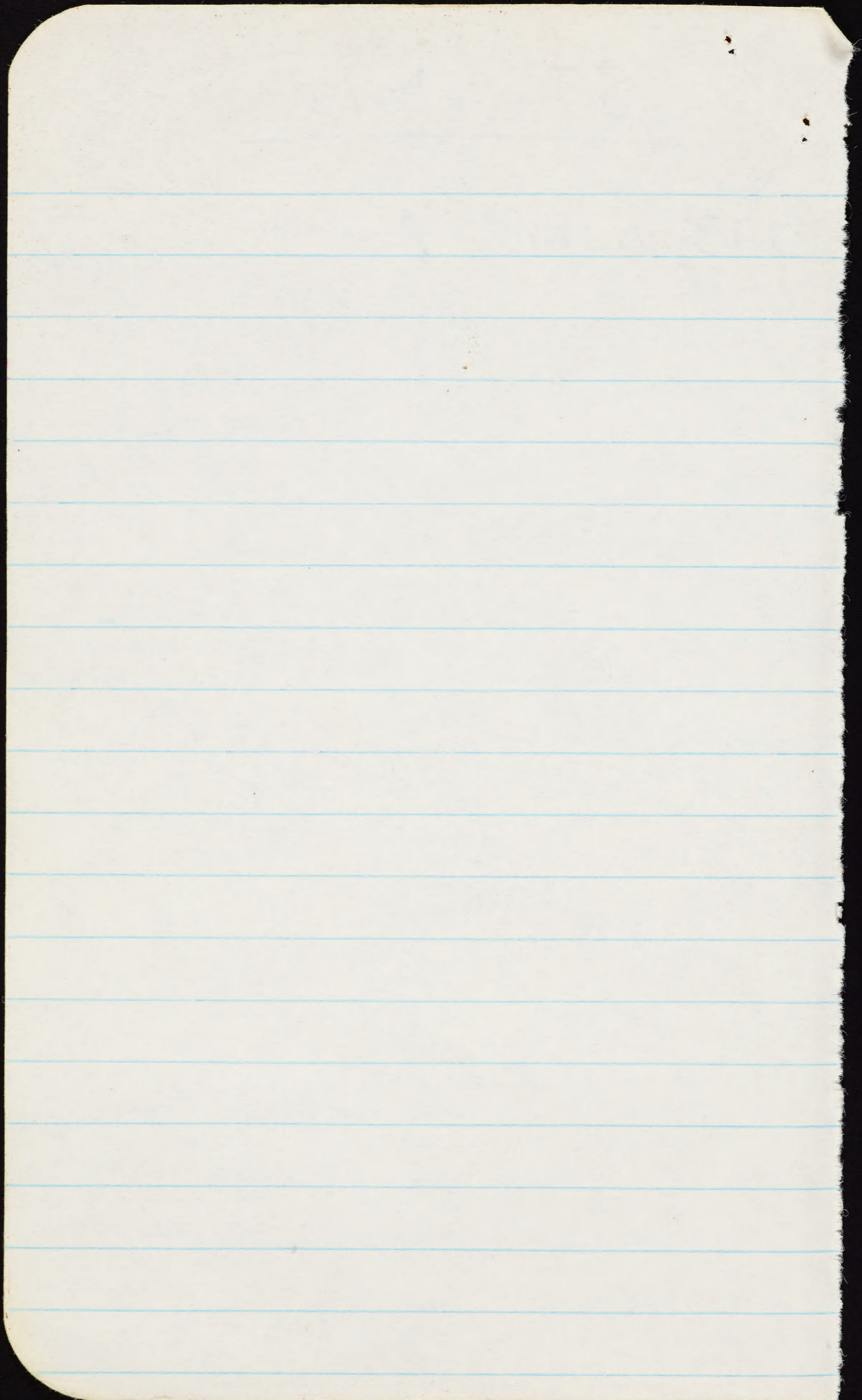
- 42

- 22

X₁

ST returns

773-00245 A



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

BFB

737-44162 ♀ Route

737-45093 ✓

45060 ✓ IE

45070 ✓ 7 Rooms

45096

737 - 44175 ✓

45067 ✓ F-IE

45087 ✓ -F-15DC

45081 ✓ F 15DC

45078 ✓ F IE

587-80380 R-1 ✓

767 53301

1 NC CT

2 IE

3 IE

4 ADC

5 IE

6 1SDC

7 1NC

8 IE

9 ~~1SDC~~ 1SDC

10 1NC

1 1MC

2 1SC

3 1MC

4 1R

5 IE

6 SDC } P

7 SDC } P

8 IE

9 IE

10 MDC

21 SPC

2 MC

3 } Boosting
4 }
5 }

6 INC

7 JWA

8 Boosting

9 SDC

30 MDC - M

1 SDC - M

2 SDC - F

3 IE - F

4 INC F

5 IE F

6 Boosting F

7 INC F

8 ISDC M

9 ISDC M

40 ISDC - M

737-4462

41	1 MTC	M
2	1 NC	M
3	1 NC	F
4	1 NC	F
5	Roosting	M
6	1 NC	F
7	1 MDC	F
8	1 E	M
9	1 NC	F
50	1 MDC	F
1	Roosting	M
2	1 MC	M
3	1 SDC	F
4	1 SDC	M
5	1 MDC	M
6	1 MDC	M
7	1 E	F
8	1 MDC	M
9	Roosting	F
60	1 MDC	M

~~587-80380-R~~

61	Roosting	M
2	}	F
3		M
4	LE - F	
5	1 MDC - F	
6	1 MDC - F	
7	1 MDC - M	
8	1 NC - F	
9	1 MDC - M	
70	1 NC	F
1	Roosting	F
2		M
3	1 MDC	F
4		
5	1 SDC	F
6	1 NC	F
7	1 MDC	F
8	Roosting	M
9	Roosting	M
80	1 NC	F

81	1E	M
2	1E	F
3	1E	F
4	1NC	F
5	1NC	F
6		
7	Roosting female	
8	1NC	F
9	1SDC	F
90	1SPC	F
91	1SPC	F
92	1NC	F
93	1NC	M
94	1E	M F
95	1NC	F
96	Roosting	Sub
7	1NC	F
8	1MDC	F
9	1SPC	M
400	1E	M

53400

