

MICE
DIET ELASMO
CID 1

PLASMACID EXPERIMENT IN MICE

8-10-48

PURPOSE - To determine effect of the "neurotoxic" drug plasmacid on pathogenicity of Lansing poliomyelitis virus in mice

MICE USED - Maxfield albino; 10-12 gm. at time of delivery on 8-10-48

DRUG - 250mg. of plasmacid was mixed with powdered thoroughly shaken in closed glass jar, and fed to 30 mice ad lib. DRUG started A.M. of 8/10/48

CONTROL MICE - 30 mice set aside at same time, given same diet in form of whole pellets - no drug.

REASON FOR SELECTED DOSAGE:

According to Dr. L.H. Schmidt's data on albino rats, the following effects were observed with plasmacid in the diet:

This should be base not drug {
0.05% (i.e. 500mg/1,000 gm diet) - lethal
0.025% (" 250mg/ " ") - marked weight loss
0.0125% (" 125mg/ " ") - weight loss @ 25%

Also when given by stomach tube to rats:

10 mg/kilo/day - slight weight loss

20 mg/ " / " - 4/20 paralyzed in 4 days

40 mg/ " / " - lethal in 1 1/2 days

NOTE - DRUG CONTINUED AFTER MICE WERE INOCULATED WITH VIRUS

VIRUS CHALLENGE - on 8/17/48, i.e. 7th day on diet Lansing virus (Pool III of 7/6/48 - PD₅₀ titer @ 10^{-3.4}) in 1:50 dilution in saline (i.e. @ 50 PD₅₀) given intracerebrally to 21 Plasmacid mice and 30 control mice.

DRUG STARTED PLASMACID GROUP

VIRUS GIVEN 8-17-48

8-10-48

AVG.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
CONTROL GROUP	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
No VIRUS	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

On Sept. 2 - these and 10 controls were inoculated with Lansing virus (lot of 7/6/48) 1:50

Wt. - Gm.

1	166	175	176	182	182	184	189	186	186	187	185	186	190	188	188	192
2	162	175	176	182	182	184	189	186	186	187	185	186	190	188	188	192

VIRUS 8-17

Box "A"

1	D																																			
2	D																																			
3	P																																			
4	P																																			
5	P																																			
6	P																																			
7	P																																			
8	P																																			
9	P																																			
10	P																																			

D after Examination and Weight. (8/22 - A.M.)

Wt. in Gm.

1	159	149	126	102	94	61	34	20	17	18	16	16	16	16	16	16
2	159	149	126	102	94	61	34	20	17	18	16	16	16	16	16	16

VIRUS 8-17

Box "B"

1	P																																			
2	P																																			
3	P																																			
4	P																																			
5	P																																			
6	P																																			
7	P																																			
8	P																																			
9	P																																			
10	P																																			
11	P																																			

Wt. in Gm.

1	168	174	156	128	128	126	98	78	59	45	28	29	29	28	26
2	168	174	156	128	128	126	98	78	59	45	28	29	29	28	26

AVG. A+B :

1	16.3	17.2	16.5	16.7	15.8	15.6	16.5	18	16	16.5	15	15	14	14	13
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CONTROL GROUP

VIRUS 8-17

Box "C"

1	P																																			
2	P																																			
3	P																																			
4	P																																			
5	P																																			
6	P																																			
7	P																																			
8	P																																			
9	P																																			
10	P																																			

Wt. in Gm.

1	170	173	143	127	129	102	79	42	X
2	170	173	143	127	129	102	79	42	X

* cns - many vesicular - head to one side - to right

Note - A very crude estimate indicated that
about 150 Gm. of food was used up (to

- P L A S M A C I D -

August 10 - '48

Aug. '48

(Yellow) DRUG

VIRUS

9 10 11 12 13 14 15 16 17

Mouse		Weigh (Grams)											
		0 (4)	1	2	3	4	5	6	7	8	9	10	11
1	(Head)	10.5	12.5	12.5	14.0	13.0	14.5	15.0	15.5	17.5			
2	(Back)	12.0	13.5	13.5	16.0	16.0	15.5	15.5	16.0	17.0			
3	(Tail)	11.5	12.0	12.5	14.5	15.0	14.5	15.0	14.5	15.0			
4	(Head and Tail)	10.5	12.0	12.5	14.5	15.0	14.5	15.5	16.0	16.5			
5	(Back and Tail)	11.0	13.0	13.5	15.5	16.0	16.0	16.5	17.0	17.5			
6	(Head, back and tail)	10.5	12.0	12.5	14.5	15.0	14.5	15.0	15.0	15.5			
7	(Right fore leg)	11.00	12.5	13.0	15.5	16.0	16.0	16.0	16.5	17.5			
8	(Right hind leg)	11.0	12.0	12.0	13.0	14.0	13.0	13.0	13.0	13.5			
9	(Left hind leg)	11.5	13.0	14.0	16.0	17.0	16.5	17.0	17.0	18.5			
10	(Left fore leg)	11.0	13.5	13.5	15.0	15.5	15.0	15.0	16.0	17.5			
Average weight		11.05	12.65	12.95	14.25	15.45	15.00	15.35	15.60	16.60			

- C O N T R O L -

(Pink)

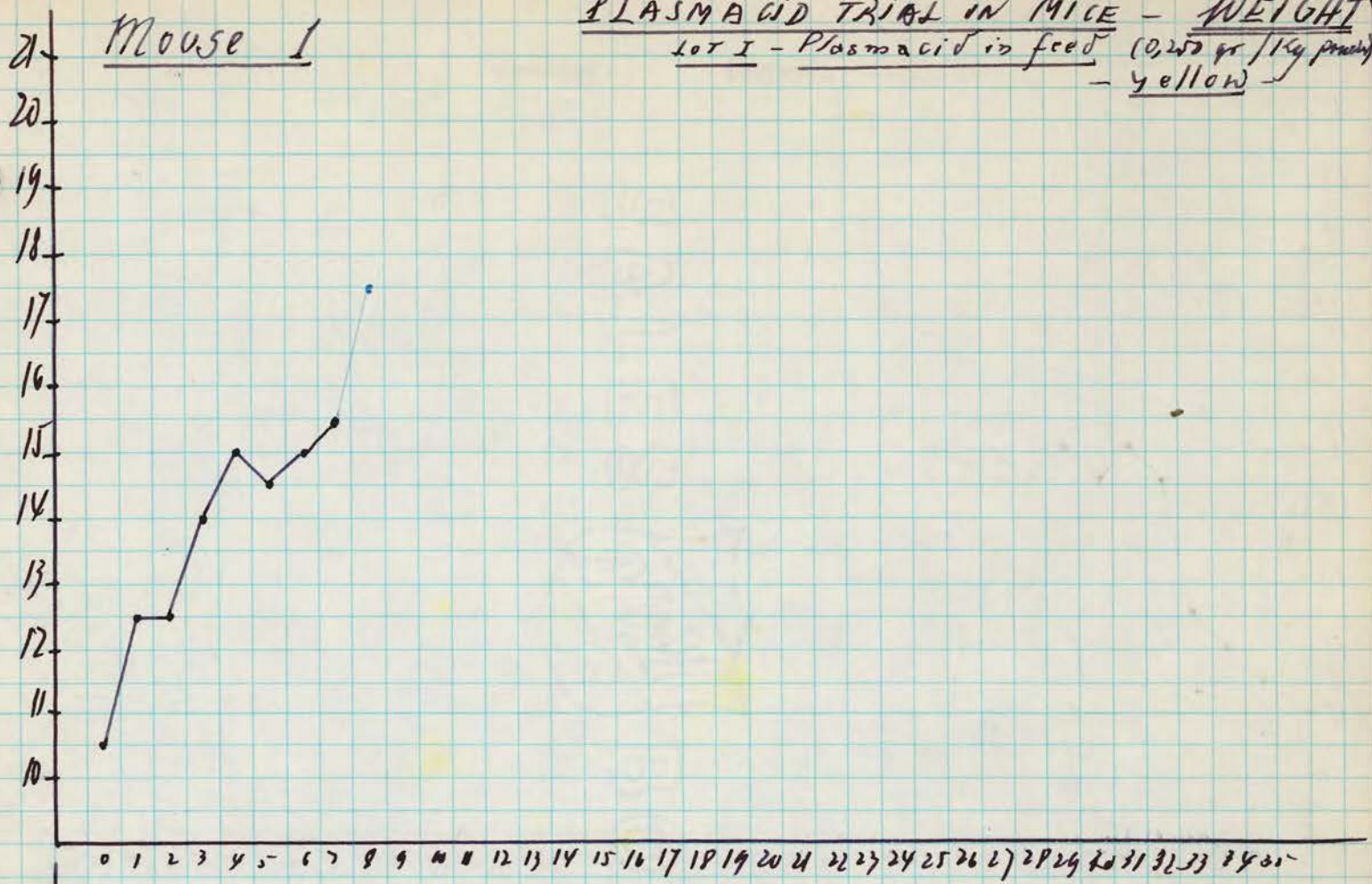
1	S A M E	10.5	11.0	12.5	13.0	13.5	13.0	13.0	12.5	13.5
2		11.0	11.5	13.0	15.0	15.0	14.5	15.0	15.0	15.5
3		11.5	13.5	16.5	17.5	18.5	19.0	20.0	21.0	21.0
4		9.5	13.0	13.0	15.0	16.0	16.0	16.0	16.5	18.0
5		11.5	12.5	14.0	15.0	16.5	16.5	16.0	15.0	13.5
6		11.5	12.0	14.0	14.5	15.5	16.0	16.5	16.5	16.5
7		10.5	12.5	15.5	16.0	17.0	16.0	17.0	17.0	17.5
8		11.0	12.5	13.5	15.0	16.0	15.0	15.5	16.0	16.5
9		10.0	12.5	14.0	16.0	17.0	17.0	17.5	18.5	18.0
10		10.5	12.0	14.0	14.5	15.5	15.0	16.0	16.5	17.0
Average weight		10.75	12.30	14.00	15.25	16.05	15.85	16.25	16.45	16.80

(*) THE TORSION BALANCE Co. (STYLE 355 - N. B. 51856)

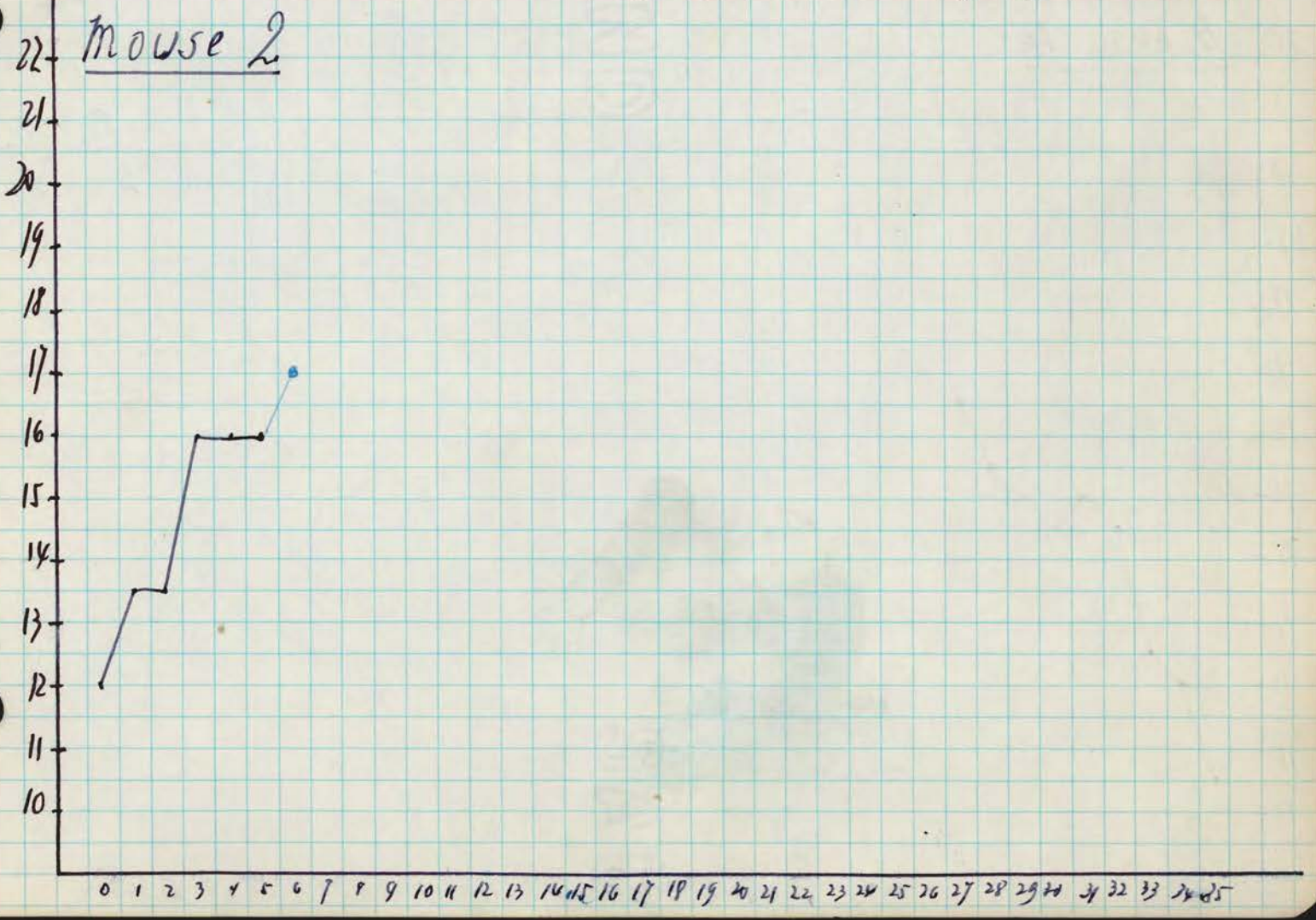
August 19. Weigh of each group of mice whole.

PLASMACID TRIAL IN MICE - WEIGHT
 lot I - Plasmacid in feed (0.25% or 1/4% powder)
 - yellow

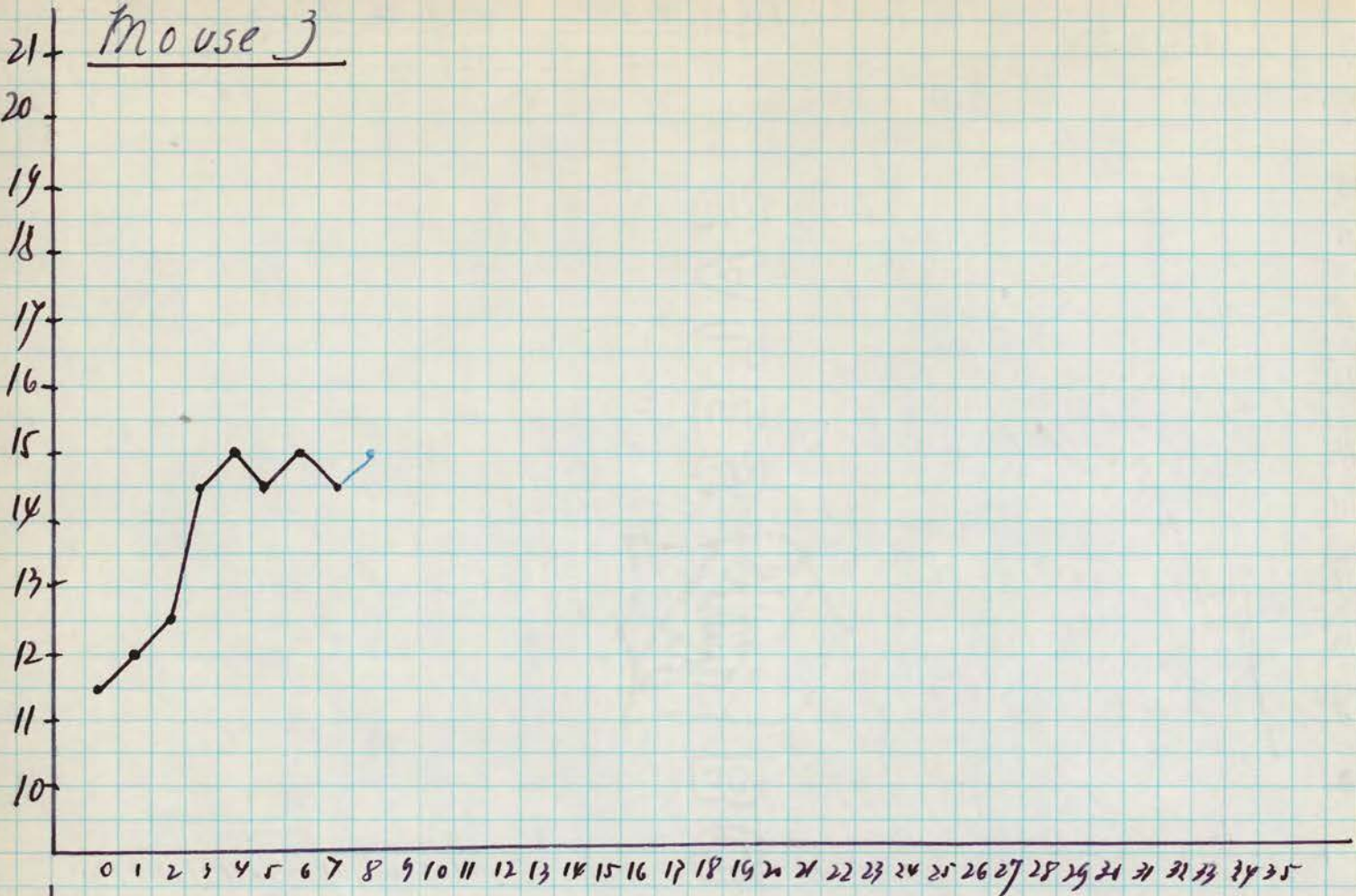
Mouse 1



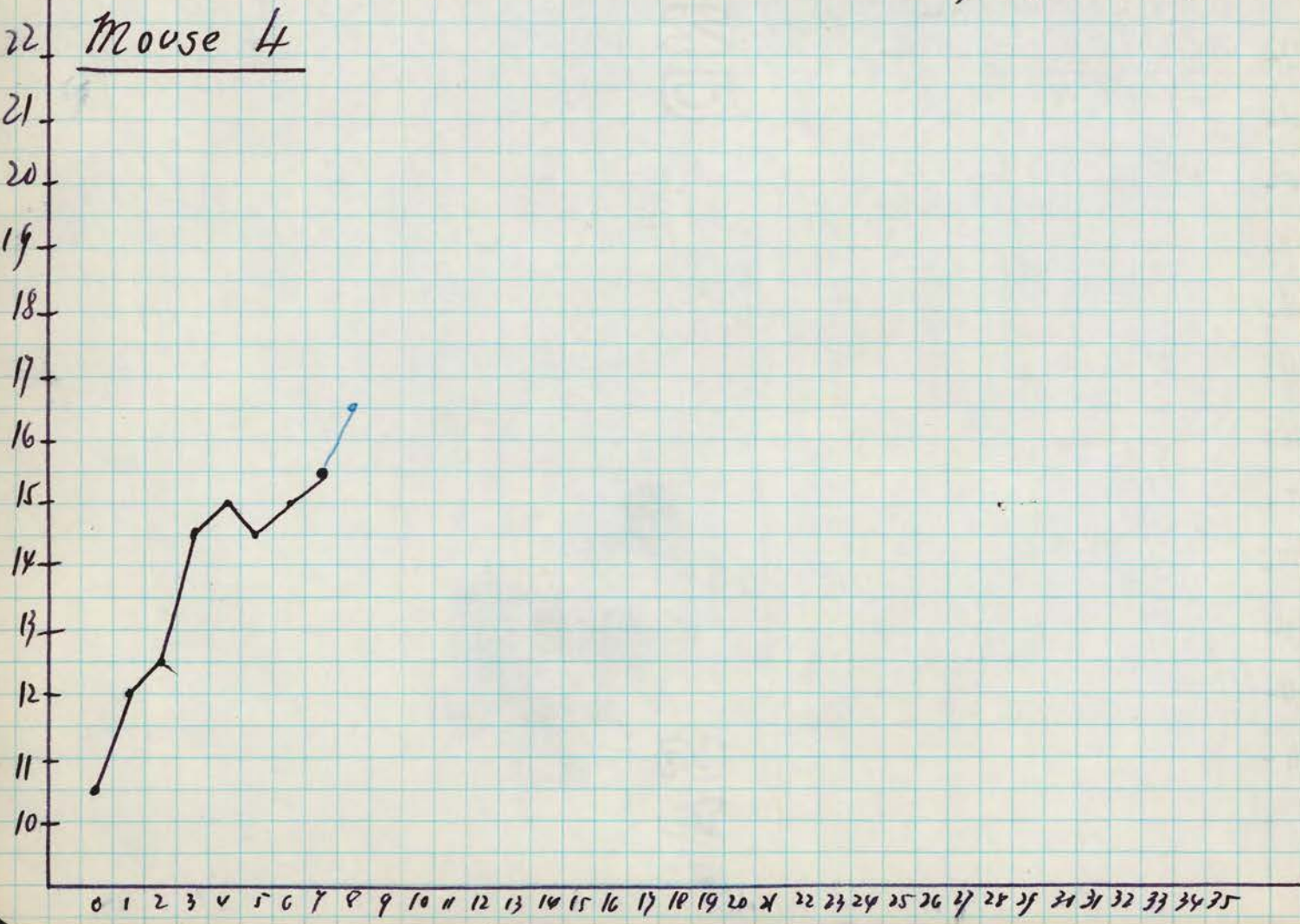
Mouse 2



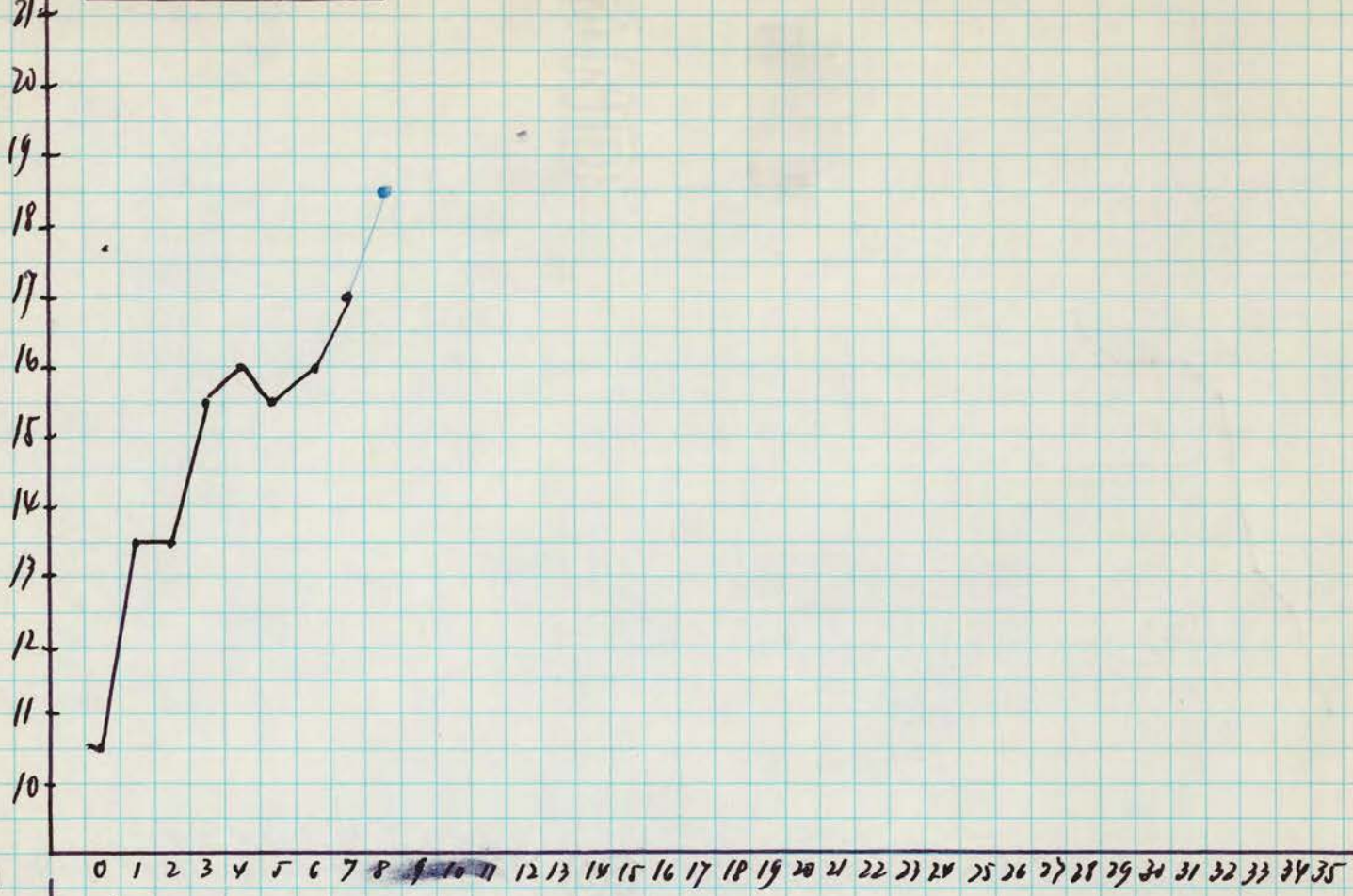
Mouse 3



Mouse 4

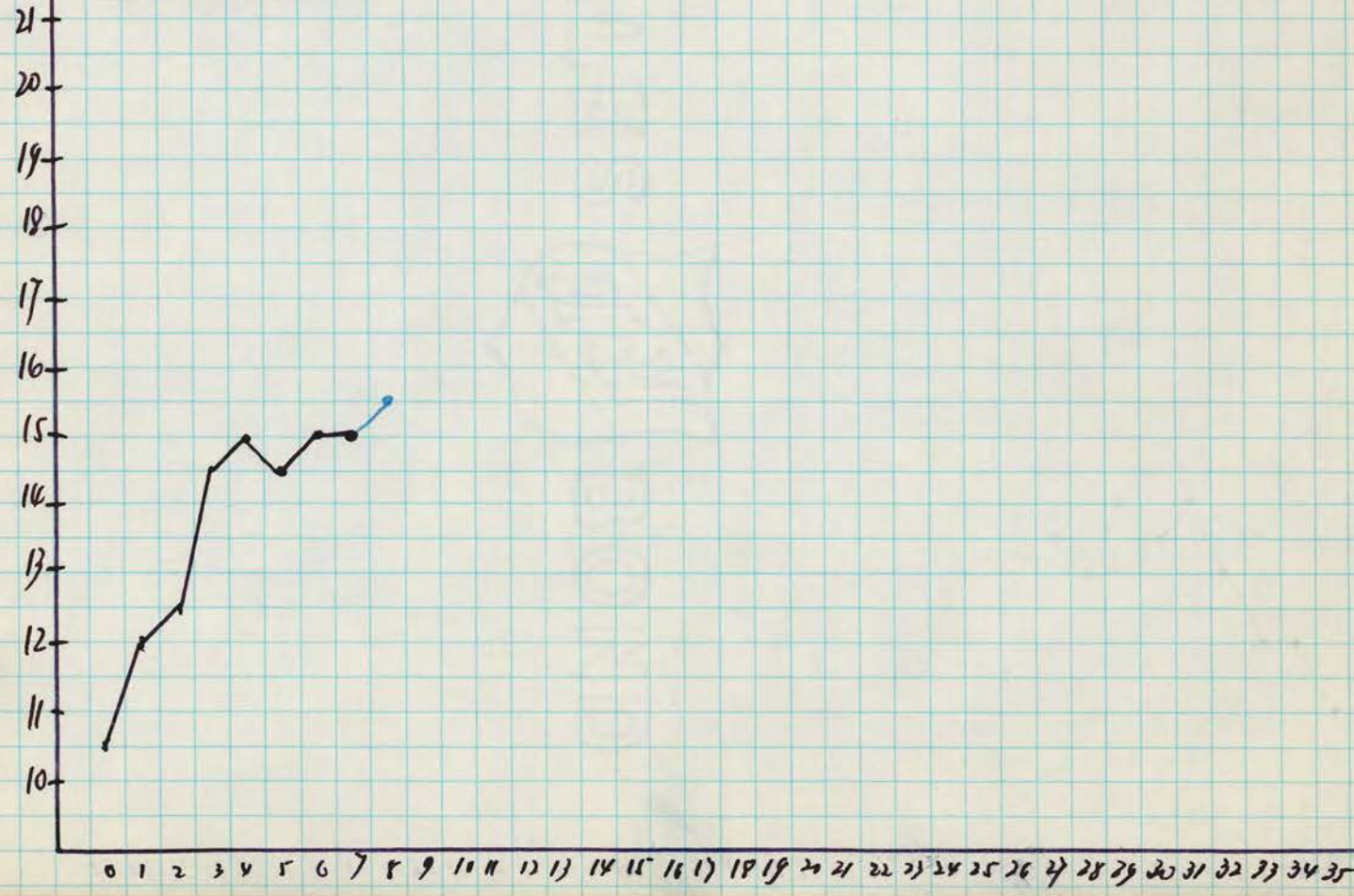


Mouse 5



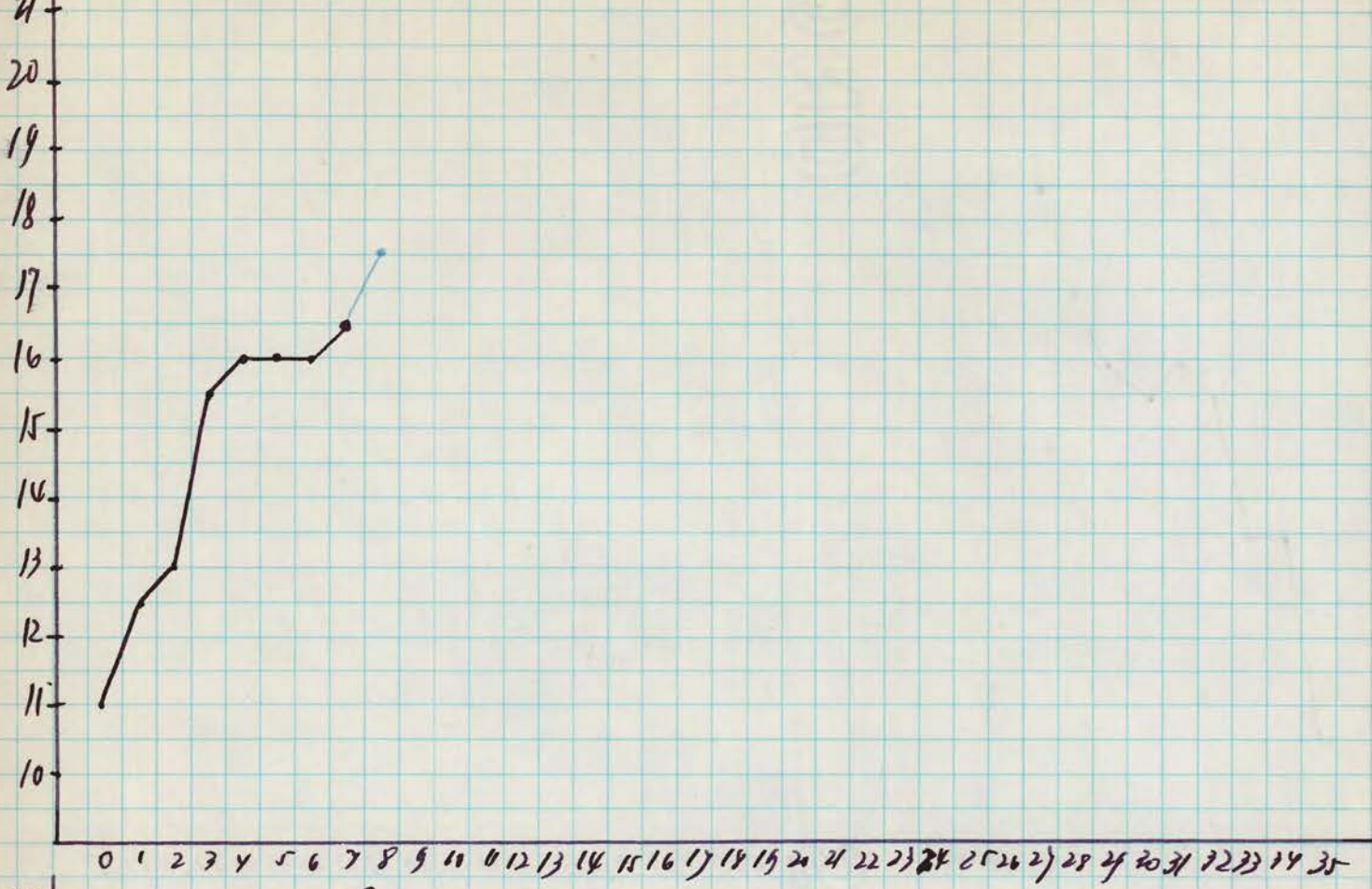
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

Mouse 6

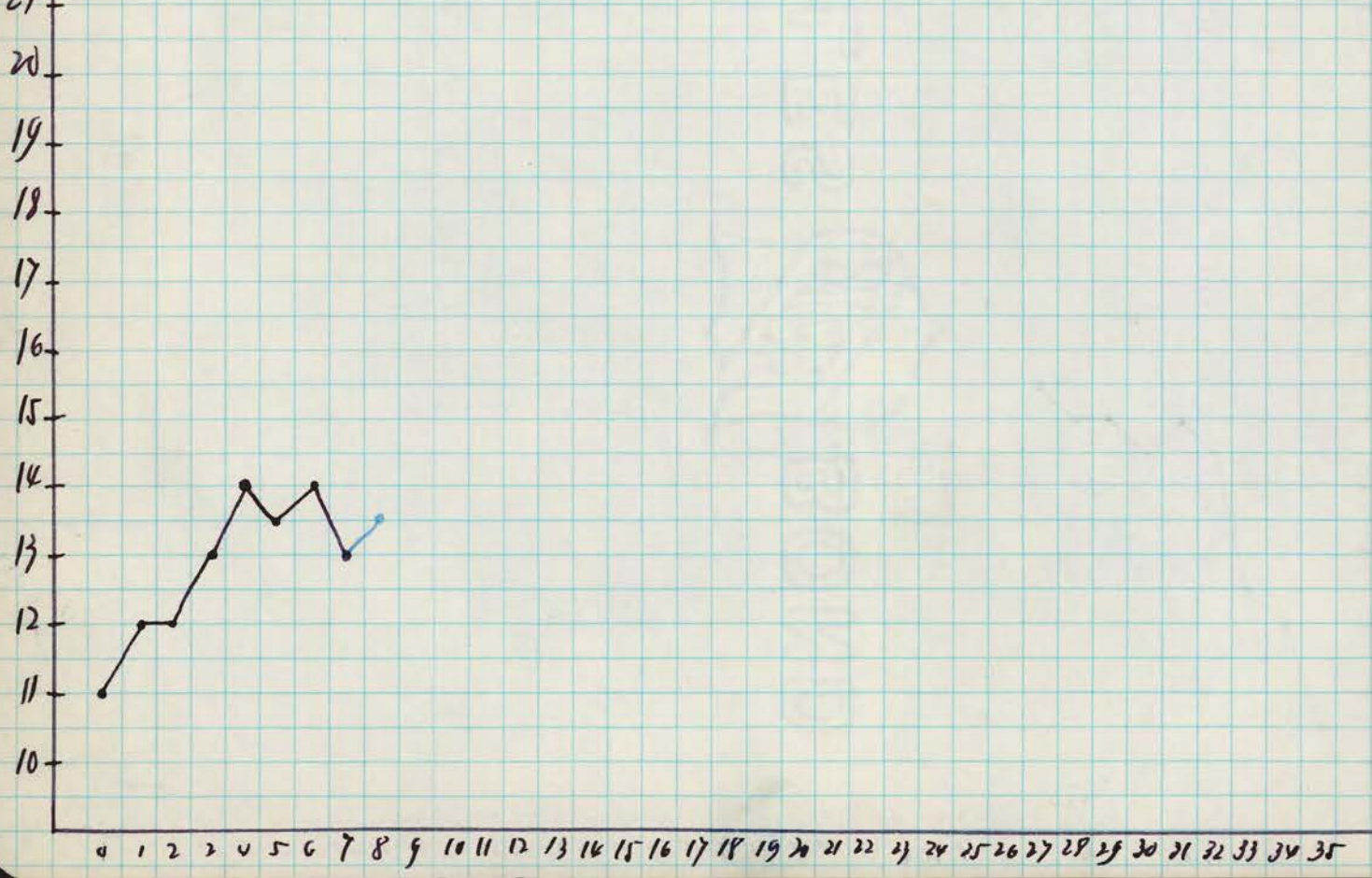


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

mouse 7

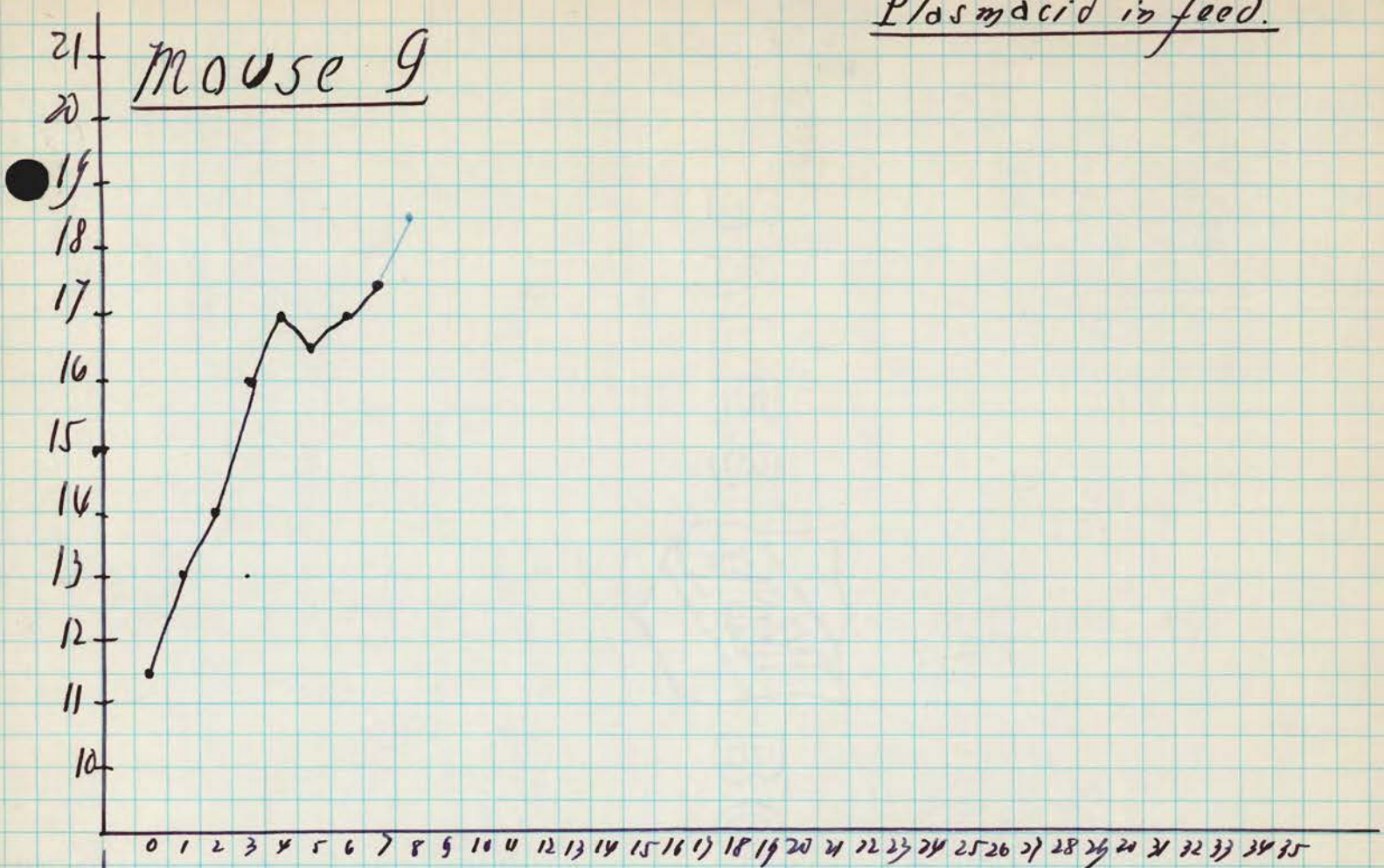


mouse 8

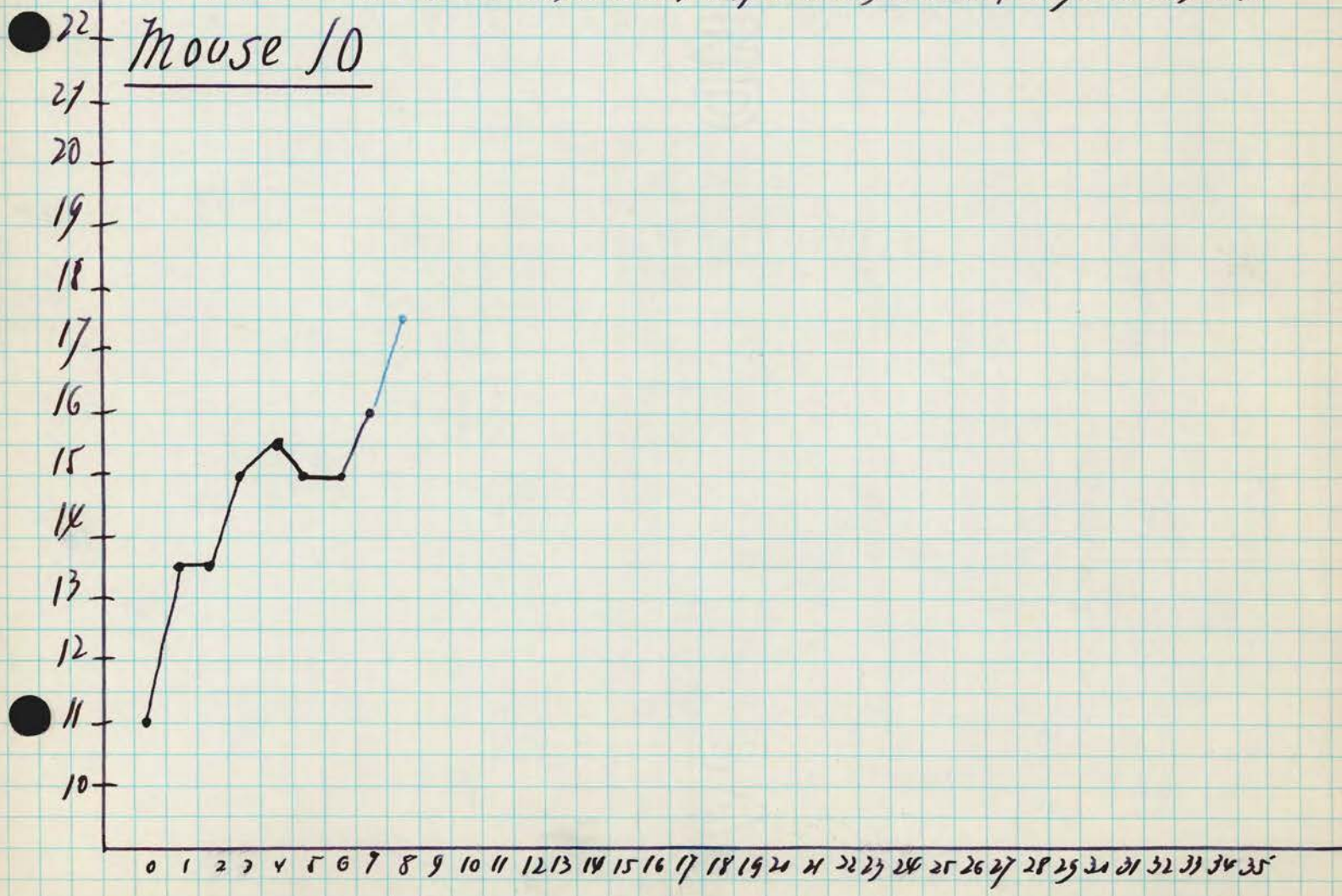


Plasmodium in feed.

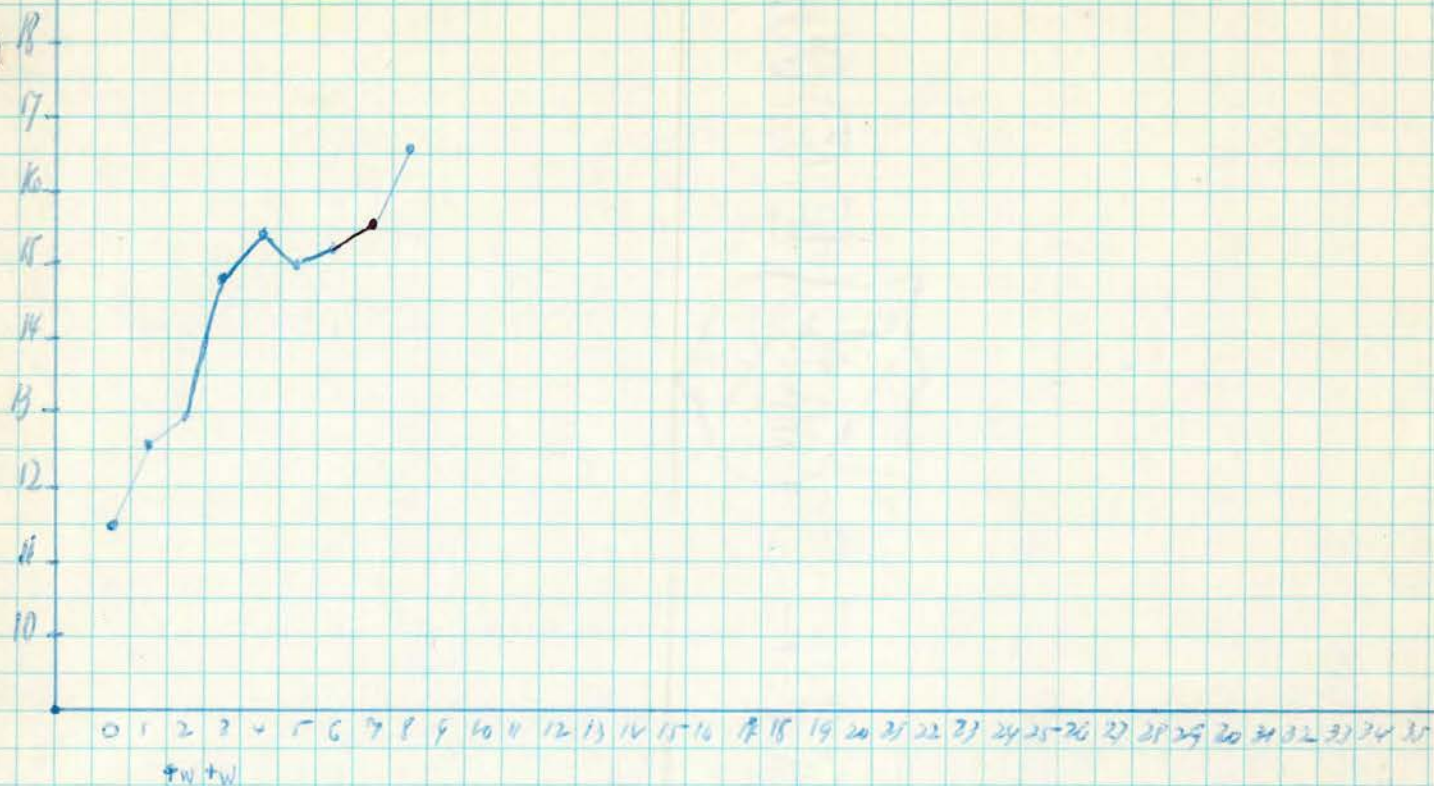
mouse 9



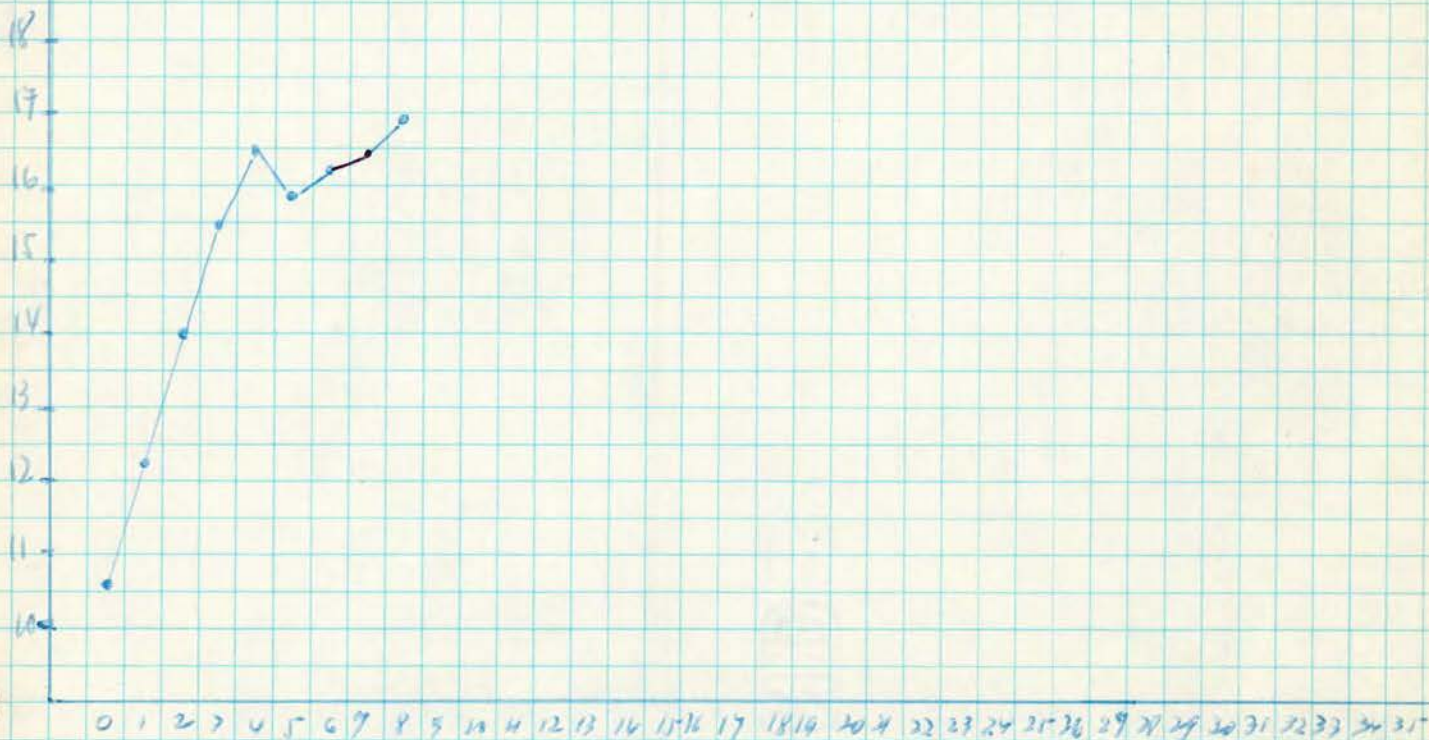
mouse 10



August 10 - PLASMACID TRIAL IN MICE - AVERAGE WEIGHT -



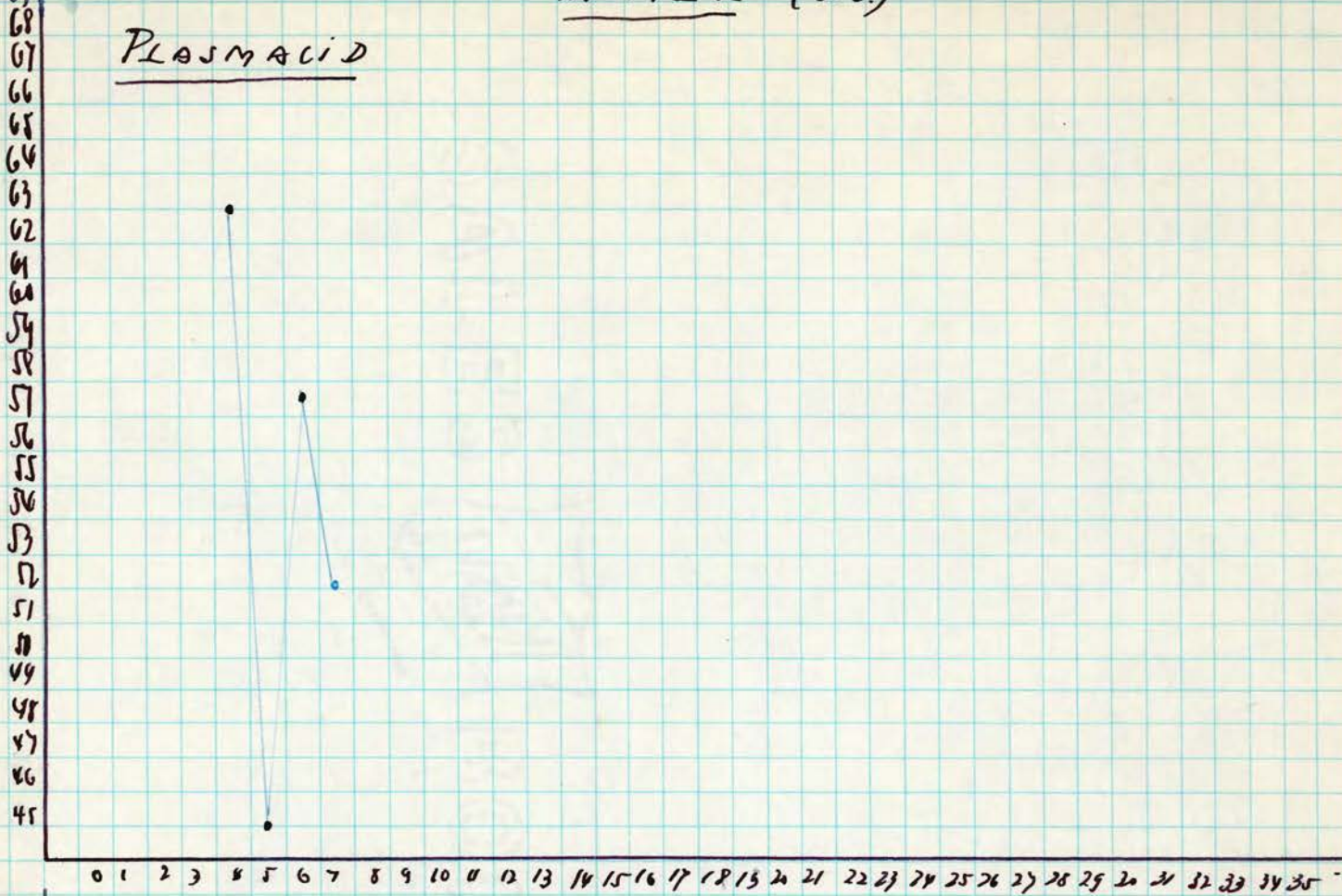
NO PLASMACID -



mat. 10

PLASMACID ON MICE
WATER (C.C.)

PLASMACID



no PLASMACID

