

Thursday.

[early 11.30 (1922)]

My dear Ron,

I am sending you herewith the complete justina paper. I had hoped to do so type, but have been held up by the big work of getting all the plates for my new book book ready, against-time, for making the blocks in Switzerland.

What you last did cleared the situation immensely by showing that the recoveries in the big area III are too few or which to base estimates of survival. The anomalous situation of the ♀'s in that area is thus accounted for. Consequently I have re-written pp. 22 (from below the table) to 29 inclusive. Do alter them in any way you think fit.

I have also prepared a map, which I enclose, and return herewith the sex-diagram which you had kindly had

prepared. I also enclose the six triangles. I have not done them in indian ink for photography for, depending merely on lines and figures, the printers may merely put them together without photographing a block. Doubtless they would re-draw as they looked if necessary.

These triangles I have constructed upon the slightly new basis which we discussed when last we met:-

- (1) On the left the totals give insects caught.
- (2) " " right " " " marks released.
- (3) All re-marks are entered separately in the body of the triangle as if they were different specimens. So that the body of the triangles list marks not insects.

I think, as you suggested, that it would be excellent to adopt this method of recording in future. You will see therefore that-

These 6 triangles check with the big original sheet of data which I return herewith. The second pair of columns being specimens captured gives the totals on the left of each triangle.

The third pair of columns (for each of the three areas) gives marks recaptured. Consequently the totals on the right of each triangle (being marks released) represents the sum of column 2 and column 3, for males and for females.

Thus for area III, the original data-sheet gives, under column 2, for the 27<sup>i</sup> (stepped down to the 26<sup>i</sup>) 42 ♀ and 17 ♂ captures, and these are the numbers entered on the left of the two triangles concerned. In the third column (for area III) is given <sup>for this date</sup> marks recaptured :- 2 ♀, 1 ♂. Consequently on the right of the two triangles concerned the marks released are 44 and 18 respectively.

There is of course an adjustment-

in respect of insects captured which were not released  
(a ♀ on the 22<sup>nd</sup> in area V, and a ♂ on the  
23<sup>rd</sup> for area I).

I don't know whether you and  
Darlington will feel this sufficiently genetic for  
inclusion in Heredity. That would be the  
thing which would please me most if it  
were possible.

If not, I wonder whether you think  
Ernst Mayr's Animal Evolution would be  
suitable. I have some personal reason in  
suggesting that as a second thing, because  
Mayr who was extraordinarily kind to me  
when I was in the States said he would  
be so pleased if I could let him have a  
paper. Also the Society for the Study of  
Evolution, whose organ it is, made me  
an Hon. Editor of the journal.

I know that Mayr was  
active, with dos Passos and others, in

Securing that I should be made an Hon.  
Member of the American Museum of Nat.  
History, New York. Consequently, I feel  
anxious to let him have something if you  
think that appropriate. But, in any event,  
I would regard Heredity as first choice.

Yours truly,  
Henry.

Enclosed:-

Paper (30 pp.).

Sex-diagram.

Map.

6 triangles.

Large sheet of original data.

	Releasees		(Specimens)		Area 1.	(Morris)		(Specimens)		Days observed
	♀	♂	♀	♂		Recaptures	♀	♂	♀	
1x 2	29	11	-	-						
1	33	12	29	11		5	4	54	46	29
VIII-31	-	-	30	11		6	3	32	46	20
30	-	-	-	-		-	-	-	-	-
29	-	-	-	-		-	-	-	-	-
-28	16	17	-	-		-	-	-	-	-
-27	32	7	25	(16 days post 1st)		5	6	45	20	50
26	-	-	31	7		5	2	47	38	16
25	29	12	-	-		-	-	-	-	-
24	22	18	28	12		6	6	56	36	26
23	17	21	22	18		3	1	31	8	3
22	17	23	17	22	1778.7	3	4	34	7	21
21	19	21	17	22	1215.2	0	4	23	0	14
20	18	23	19	21	1165.0	2	2	22	3	8
19	17	23	18	23	916	4	3	47	8	10
18	12	27	17	23	683.7	0	0	00	0	0
17	15	27	12	27	397.8	0	1	01	0	2
16	25	12	15	27	333.7	1	1	11	1	1
	311	255	290	240		40	37	74	213	200

1573.8  
1239.2  
905.5

89	38-2700	130-8574	977-3443	14-2400	96-6897	935-3117
7921	-	92-5874	846-4869		82-4497	838-6220
704969	-	92-5874				
62742241	-	92-5874				
55840,59449	-	92-5874				
49698,12910	20-8732	92-5874		8-4487	82-4497	508-8232
26 44231,33490	-	71-7142	383-5299	-	74-0010	426-3755
39365,88806	13-3844	71-7142	311-8357	9-4478	74-0010	352-3725
24 35035,64037	9-4596	58-5298	240-1215	11-2114	64-5532	278-3715
31181,71993	10-2900	48-8702	181-7917	8-1072	53-3418	213-8183
28 27751,73074	8-6030	38-5802	132-9215	8-3255	45-2346	160-4765
24699,04036	6-1748	29-9772	94-3413	8-3977	36-9091	115-2419
20 21982,14892	6-3708	23-8024	64-3641	7-2541	28-5114	78-3328
19564,10987	6-0649	17-4276	40-5617	5-4780	21-2573	49-8214
18 17412,05778	4-0048	11-3627	23-1341	6-4425	15-7293	28-5641
17 115496,73143	2-9444	7-3599	11-7714	5-8888	9-3368	12-7848
16 13792,09097	4-4135	4-4135	4-4135	3-4480	3-4480	3-4480

13-3500	66-4348	508-36340	4-4500	27-0989	269-0206
-	53-0848	441-9106	-	<del>28-7797</del>	241-9215
-	-	-	-	<del>26-5204</del>	-
4-4672	-	-	5-584	226-489	-
12-4245	48-6176	229-5714	4-970	22-0905	151-3259
-	36-1931	180-9538	-	21-5935	129-2356
6-6922	36-1931	144-7607	3-1493	21-5935	107-6419
7-0071	29-5009	108-5676	1-4014	18-4442	86-0486
5-3009	22-4938	79-0667	2-1827	17-0428	67-6042
3-6077	17-1929	56-5729	4-7178	14-8601	50-5614
3-9518	13-5852	39-3800	0-9880	10-1423	35-7013
2-4180	9-6334	25-7948	2-6180	9-1543	25-5590
2-5433	7-2154	16-1614	1-5651	6-7363	16-4047
1-9153	4-6721	8-9460	1-9153	5-1712	9-6684
1-2397	2-7568	4-2739	2-0146	3-2559	4-4972
1-5171	1-5171	1-5171	1-2413	1-2413	1-2413

Area 5.

Date	Releases		Captives		Receptions		Days observed		Total	Total	
	♀	♂	♀	♂	♀	♂	♀	♂			
18-2	-	-	-	-	-	-	-	-	-	-	
1	15	5	-	-	-	-	-	-	-	-	
VIII-31	-	-	12	4	8	4	33	49	12	46.2964	
30	-	-	-	-	-	-	-	-	-	-	
29	-	9	-	-	-	-	-	-	-	-	
28	8	1	-	4	-	0	-	0	-	-	
27	25	1	7	1	4	1	17	3	18.888	6.850	
26	-	-	19	1	12	4	0	49	0	59.446	-
25	17	6	-	-	-	-	-	-	-	-	-
24	20	4	15	5	8	4	13	24	33.121	18.661	
23	17	7	18	2	12	4	28	21	42.181	15.867	
22	23	17	15	4	8	5	25	13	26.324	17.012	
21	16	4	12	9	2	16	2	16	5.197	56.321	
20	11	11	16	4	3	3	6	6	8.037	8.376	
19	13	8	11	9	2	6	5	13	4.480	14.612	
18	11	11	12	6	5	4	9	8	9.574	7.479	
17	8	13	11	9	1	8	2	12	1.550	11.050	
16	11	9	8	13	2	3	2	3	2.026	3.000	
	<u>185</u>	<u>99</u>	<u>156</u>	<u>67</u>	<u>68</u>	<u>58</u>	<u>37</u>	<u>207</u>	<u>278.541</u>	<u>201.954</u>	

Area 3.

Date	Releases		Captives		Receptions		Days observed		Total	Total	
	♀	♂	♀	♂	♀	♂	♀	♂			
18-2	43	15	-	-	-	-	-	-	-	-	
1	43	16	43	15	3	0	33	10	34	27.406	
VIII-31	-	-	43	16	1	1	11	5	8	9.143	10.171
30	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-
27	42	17	-	-	-	-	-	-	-	-	-
26	-	-	42	17	1	1	4	4	10.447	5.762	
25	50	26	-	-	-	-	-	-	-	-	-
24	17	32	34	26	0	0	0	0	-	-	-
23	33	26	27	22	0	3	0	10	-	12.025	-
22	31	30	32	16	1	0	21	24	6.891	3.548	
21	15	14	31	30	3	0	5	12	9.441	-	
20	29	13	25	34	0	0	0	0	-	-	-
19	31	28	29	33	1	4	14	1	3.327	9.375	
18	23	37	31	28	2	0	20	3	4.072	-	
17	19	38	23	37	0	2	0	4	-	2.739	-
16	32	25	19	38	0	0	0	0	-	-	-
	<u>412</u>	<u>355</u>	<u>455</u>	<u>296</u>	<u>14</u>	<u>15</u>	<u>10</u>	<u>41</u>	<u>76</u>	<u>64.477</u>	<u>72.460</u>

2239.6	4810.8
1754.6	3612.3
454.5	3478.1
515.0	3232.2
5688.7	2317.0
	<u>17920.4</u>
	4417.6

