4277 J ** ## **

were mated or unmated from irradiation to the 5th or the 7th day after treatment. From this it was concluded that when males were unmated the sperm was reabsorbed and/or spontaneously ejaculated.

To explain the variations in the rate of dominant lethals, it was supposed that the variation fitted with different stages of spermatogenesis that were treated. In the first 5 days, sperm that was mature at treatment was used. In the next 5 days, sperm was used which was maturing (spermatid stage) at treatment. After the 11th day, sperm that was immature at treatment was used.

Later the frequencies of point-mutations (y, w, and sn), gynandromorphs, and hyperploid males were studies in the two periods 1-6 and 7-10 days after treatment. Wild-type males were irradiated (960 r) and mated to virgin y w sn females, two of each sex per vial. At the beginning of the 7th day the males were transferred to another 5 virgin females. The following data were obtained.

Days after treatment	Total females and gyn.	Point- mutations	Gynandro- morphs	Hyperploid males		
1-6	59856	. 8	35	12		
7-10	47007	22	32	56		

From this it is concluded that spermatids are more sensitive to irradiation than mature spermatozoa.

species of the obscura group.

Mainx. F. Structural variety For some time I and my collaborators in wild populations of European have been occupied with this problem. In a short time a paper will appear containing general statements and the

salivary chromosome maps of D. subobscura, D. obscuroides, and D. amnigua. A second paper will deal with a qualitative analysis of the inversions in D. subobscura (Austrian, British, and other strains). Further current investigations deal with the selective value of inversions in artifical pepulations, with quantitative analysis of certain populations, with selection of inversions by inbreeding, and with X-ray-induced inversions in D. subobscura.

Makino, Sajiro, and Kanehisa, Takeharu A preliminary survey of the geographical distribution of Drosophila in Hokkaido

The species of Drosophila so far collected from Hokkaido and their distribution are preliminarily listed below. For description, the island of Hokkaido was divided into four regions -- South

Central, East, and North.

♦ ‡	South	Central	East North
Amiota sp.	, , , , ,	+	
Scaptomyza sp.	· + </th <th>+</th> <th></th>	+	
Hirtodrosophila sp.		+	+ , + ,
H. cinerea group	4 4 A	在我们。"	The country of the same also properly the same and the same and
melanogaster		50 30 t	The state of the state of the state of
auraria			्राकृतिक हुन । अक्षात्री हर्ना विकास विदेशी
"suzukii	+	+	一一中心 计特性中心 化二次四烷 第二
obseura group	,	+ .	+
transversa	· +	.+	· · · · · · · · · · · · · · · · · · ·
migromaculata	+	+	+ +

25:111	NOTES South	AND NEWS - Central	Research East	November 1951 North
virilis testacea	+ _+	+	+	Taranto Anton
funebris	+	+	+	
histrio		+	+ ;	Contract the North
immigrans rufa		+	+	. I de la
repleta group melanica group	•		+	Karamatan Terbahasan Sebagai Kebagai K
macularis group			+	ing the state of t
robusta group	+	+		
sordidula coracina		, +	+	
busckii	+	+	+	
Mycodrosophila sp. grandis (?)			++	and the first of the second se

Makino, Sajiro and Kanehisa Takeharu A monthly survey of Drosophila in the City of Sapporo, Hokkaido.

August, and IX = September.

Makino, Sajiro and Takada

Haruo A monthly survey of

Drosophila in the vicinity

VI = June, VII = July, VIII = August, and IX = September)

of Otaru City, Hokkaido.

Monthly collections of Drosophila have been made in three different regions in the City of Sapporo. The species so far observed and their monthly appearance are as follows: (V =May, VI = June, VII = July, VIII =

Monthly collections of Drosophila have been made in Otaru City and its vicinity,

Shioya, in Hokkaido. The species so far

listed on the following page: (V = May,

observed and their monthly appearance are

,	West					South						Nor	Total				
	٧	VI	VII	VIII	IX	V	ΛI	VII	VIII	IX	V	VI	VII	VIII	IX		
auraria nigromacu-	145	300	426	315	109	-	41	246	437	27	-	16	50	91	18	2221	
lata transversa immigrans funebris busckii testacea histrio	115	80	229 16 64 13 - 25 6	111 63	5 51 5 - 4		25	195 28 16 26 24 59	44 6 15 10 68 12	21 3 3		111111	12 11 5	5 3	2 1	866 97 275 62 180 125	ı
coracina melano- gaster virilis	- 1			- 34 9	- 15 2	-	- - -	- - -	33	2 2	 	-	-	- 		1 51 46	۰
robusta gr. rufa Scapto- myza sp.	-	- - 5	1	51	-	-	-	- - 9	4	3 -	- - - - -	-	-	-	•	58 1 14	·
Total	260	405	780	803	191	_	66	603	635	61	-	16	78	99	21	4008	