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The demilitarized zone (4 km wide 249 km long) and its adjacent area have been kept uninhabited and undisturbed for fifteen years. For the study of relationship between chromosomal inversion and ecological versatilities of *Drosophila* natural

population in the areas near the demilitarized zone, the authors made the preliminary survey on *Drosophila* from October 1966 to June 1968, with particular attention to their habitats and distribution. According to altitude (sea level) three regions were selected as collecting sites; (1) eastern region, above 1000m, (2) central region, below 800m, (3) western region, below 300m.

The majority of flies were attracted to large containers of fermented fruits. Net sweeping was not enough for the present work because most of suitable areas for net sweeping were mine fields. A total of 5022 flies representing 34 species belonging to 7 genera were obtained mostly by the traps, partially by the aid of net. The results are shown in Table 1. *D. auraria* and *D. angularis* were found to be the most common species showing the most extensive distribution. In eastern region, a total of 1552 individuals (30.90%) representing 27 species, 7 genera were sampled. In central region, a total of 2658 flies (52.93%) yielded 29 species, 6 genera. In western part, a total of 812 specimens (16.17%) which belong to 16 species representing 3 genera were collected.

Table 1. Numerical data of drosophilid flies collected in the three regions near the demilitarized zone from October 1966 to June 1968.

Species	Eastern region	Central region	Western region	Total
* <i>Stegana</i> sp. from Mt. Sulak	6	-	-	6
* <i>Amiota alboguttata</i>	4	6	3	13
* <i>A. alboguttata</i> , forma Koreana	3	1	-	4
* <i>A. variegata</i>	45	36	8	89
* <i>Leucophenga magnipalpis</i>	19	2	-	21
* <i>L. concilia</i>	8	-	-	8
* <i>L. maculata</i>	3	4	-	7
* <i>Mycodrosophila japonica</i>	-	3	-	3
<i>M. koreana</i>	6	2	-	8
* <i>Liodrosophila castanea</i>	2	3	-	5
* <i>Scaptomyza graminum</i>	127	165	74	366
* <i>S. pallida</i>	182	247	94	523
* <i>Drosophila alboralis</i>	13	-	-	13
<i>D. histrioides</i>	20	9	-	29
* <i>D. sexvittata</i>	35	-	-	35
* <i>D. trilineata</i>	4	3	-	7
<i>D. coracina</i>	12	197	-	209
<i>D. bifasciata</i>	46	11	-	57
<i>D. suzukii</i>	14	23	19	56
<i>D. melanogaster</i>	-	46	38	84
<i>D. clarofinis</i>	-	8	-	8
<i>D. auraria</i> (A.B.C.)	204	740	145	1089
<i>D. nigromaculata</i>	62	79	25	166
<i>D. brachynephros</i>	188	168	69	425
<i>D. angularis</i>	174	272	110	556
<i>D. unispina</i>	112	108	91	311
<i>D. kuntzei</i>	90	82	13	185
<i>D. testacea</i>	-	8	-	8
<i>D. bisonata</i>	-	17	38	55
<i>D. histrio</i>	113	57	42	212
<i>D. tenuicauda</i>	5	6	-	11
<i>D. virilis</i>	55	86	-	141
<i>D. lacertosa</i>	-	99	27	126
<i>D. sordidula</i>	-	172	16	188
Total	1552	2658	812	5022

*Collected with the use of net sweeping.