

29.348% as against 44.706% in the control. The wingless males fecundated only 7.071% females as compared to 39.175% in the control. Again, when tarsiless and wingless males were kept with the normal females, not even a single was fecundated. These studies indicate that tapping and wing vibration of the male, of which the latter seems to be more important, are the essential factors to stimulate the female for copulation. The other acts like sight, circling and posturing seem to be of accessory nature.

Parshad, R. and K. K. Duggal. Panjab University, India. Drosophilidae of Kashmir, India.

Collections of Drosophilidae made from three places, viz., Srinagar, Pahalgam and Gulmarg, in the Kashmir Valley from June 18, 1963 to July 22, 1963, revealed twenty species, two belonging to the genus *Scaptomyza* and eighteen

to *Drosophila*. Of the latter, one each belonged to the subgenera *Dorsilopha* and *Pholadoris*, eleven to the subgenus *Sophophora* and the remaining five to the subgenus *Drosophila*. Three out of these, *D. (Pholadoris) ebonata*, *D. (Sophophora) epiobscura* and *D. (Drosophila) pentaspina* are novo while *Scaptomyza pallida*, *S. graminum*, *D. busckii*, *D. helvetica*, *D. pulchrella*, *D. brachynephros*, *D. testacea* and *D. curviceps* are being reported for the first time from India. The frequency distribution of the various species at the three places is given in Table 1.

Table 1. Frequency distribution of the various species of Drosophilidae in the Kashmir Valley

S. No.	Name of the species	Frequency distribution at						Total no. of flies	
		Srinagar 5300 ft. above sea level		Pahalgam 7000 to 8000 ft. above sea level		Gulmarg 8900 to 9400 ft. above sea level			
		♀	♂	♀	♂	♀	♂		
1.	<u>Scaptomyza pallida</u>	-	-	-	-	9	5	9	5
2.	<u>Scaptomyza graminum</u>	-	-	-	-	3	2	3	2
3.	<u>D. busckii</u>	-	-	2	1	-	-	2	1
4.	<u>D. ebonata</u> sp. novo	5	16	-	8	-	-	5	24
5.	<u>D. helvetica</u>	-	-	3	27	3	3	6	30
6.	<u>Drosophila epiobscusa</u> sp. novo	-	-	6	21	12	46	18	67
7.	<u>D. bifasciata</u>	-	-	167	744	110	221	277	965
8.	<u>D. melanogaster</u>	111	165	2	4	2	-	115	169
9.	<u>D. nepalensis</u>	7	8	58	203	-	-	65	211
10.	<u>D. suzukii</u>	20	82	282	1488	5	6	307	1576
11.	<u>D. pulchrella</u>	-	-	-	1	-	-	-	1
12.	<u>D. ananassae</u>	-	1	-	-	-	-	-	1
13.	<u>D. kikkawai</u>	28	21	-	-	-	-	28	21
14.	<u>D. rufa</u>	-	2	-	5	-	1	-	8
15.	<u>D. jambulina</u>	-	2	-	-	-	-	-	2
16.	<u>D. brachynephros</u>	-	-	-	1	-	-	-	1
17.	<u>D. curviceps</u>	-	-	1	-	1	6	2	6
18.	<u>D. immigrans</u>	37	42	9	6	-	-	46	48
19.	<u>D. testacea</u>	-	-	-	1	-	-	-	1
20.	<u>D. pentaspina</u> sp. novo	1	10	-	12	-	1	1	23
Grand total		209	349	530	2522	145	291	884	3162