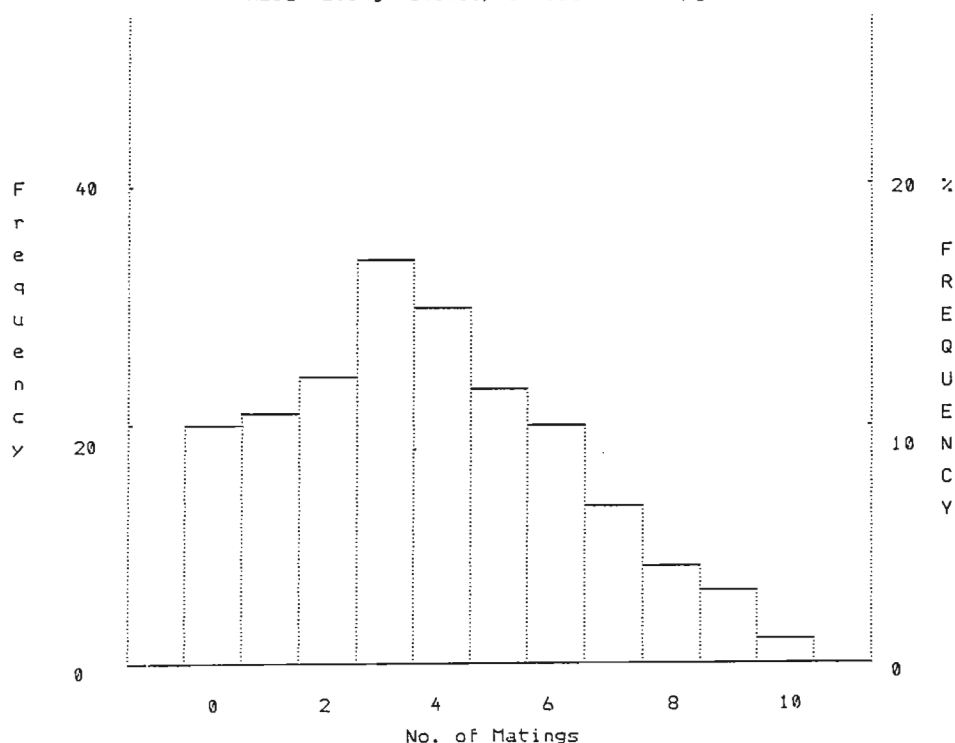


Male Mating Activity of Old Heterozygotes

**Figure 2.** Frequency distribution of mating activity for heterozygous males.

References: Petit, C., P. Bourgeron & H. Mercot 1980, *Heredity* 45:281-292; Brittnacher, J.C. 1981, *Genetics* 97:719-730; Sharp, P.M. 1982, *Genet. Res.* 40:201-205; Kosuda, K. 1983, *Experientia* 39:100-101; Stromnaes, O. & I. Kvelland 1962, *Hereditas* 48:442-470.

Kumar, A. and J.P. Gupta. Banaras Hindu University, Varanasi, India. Further records of *Drosophilid* species from north-east India.

Table 1. *Drosophilid* species collected from different areas in Meghalaya and Arunachal Pradesh during September-October 1983.

Name of species	Subgenus	Locality	Number ♂♂/♀♀
<i>Z.obscuricornis</i>	<i>Aprionus</i>	Shillong & Tai	103
<i>Z.multistriatus</i>	"	Shillong	61
<i>Liodrosophila</i>	"	Shillong & New Itanagar	9
<i>penispinosa</i>			
<i>D.rhopaloea</i>	<i>Sophophora</i>	Tai	9
<i>D.sp.Nov.</i>	"	"	6
<i>D.ficusphila</i>	"	"	6
<i>D.bryani</i>	<i>Scaptodrosophila</i>	"	88
<i>D.sp.Nov.</i>	<i>Drosophila</i>	Shillong	2
<i>D.sp.Nov.</i>	"	Tai	21
<i>D.sp.Nov.</i>	"	"	15
<i>D.sp.Nov.</i>	"	"	10
<i>D.neomigrans</i>	"	"	5
<i>D.lacertosa</i>	"	Shillong	31
<i>D.tongpua</i>	"	Tai	22
<i>D.siamana</i>	"	"	60
<i>D.synpanishi</i>	"	"	32
<i>D.sternopleuralis</i>	"	"	3
<i>D.setitarsa</i>	"	"	9
TOTAL			492

Recent surveying studies in different parts of north-east India (Singh & Gupta 1977; Gupta & Singh 1979; Dwivedi & Gupta 1979, 1980; Dwivedi et al. 1979; Singh & Gupta 1981) have indicated that this region possesses a fairly rich, and at present little known fauna of *Drosophila* and related genera of *Drosophilidae*. During the present study, intensive field collections were carried out in several previously unexplored areas in Meghalaya and Arunachal Pradesh. Altogether 18 species were collected as shown in Table 1. Among them, 5 species are detected as new to science, while 4 other species namely *D.tongpua*, *D.siamana*, *D.synpanishi*, *D.sternopleuralis* are recorded for the first time from India. An interesting feature of the collection data is that out of the total 18 species, 11 species are found to belong to the immigrants group of the subgenus *Drosophila* alone, indicating that resources are better utilized in this region by these species than the species of other genera of *Drosophilidae*.

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References: Dwivedi, Y.N. & J.P. Gupta 1979, *Entomon* 4:183-187; Dwivedi, B.K. Singh & J.P. Gupta 1979, *Oriental Insects* 13(1-2):61-74; Gupta, J.P. & B.K. Singh 1979, *Entomon* 4(2):167-172; Singh, B.K. & J.P. Gupta 1977, *Ent. Mont. Mag.* 113:71-78; _____ 1980, *Proc. Ind. Acad. Sci.* 89:85-89; _____ 1981, *Stud. Nat. Sci.* 2(13):1-8.