Table 3	Comparison of observed and expected mortality of
	adult flour beetles (data set 11)

Obs number	Exp number killed		
killed	Logit	Probit	GL (0.1695, 1.0)
4	1.4709	4.7310	2.9511
6	4.6217	8.0130	5.4372
9	12.5547	6.5976	10.8452
14	18.4368	16.0138	15.6331
29	27.3534	26.1327	27.3642
27	25.9571	25.9672	27.4325
32	31.0153	31.3728	31.9482
31	30.5901	30.8698	30.9957

by the three models as well as the observed number killed, are given in tables 2 and 3 for data sets I and II, respectively. Table 2 suggests that the GL (0.3081, 1.0) model is a more appropriate response function for data set I. On the other hand, table 3 shows that the GL (0.1695, 1.0) model fits data set II much better compared to the logit and probit models.

8 December 1988

- 1. Berkson, J., J. Am. Stat. Assoc., 1944, 39, 357.
- 2. Brown, C. C., Commun. Stat., 1982, A11, 1087.
- 3. George, E. O. and Ojo, M. O., Ann. Inst. Stat. Math., 1980, 32, 161.
- 4. Balakrishnan, N. and Leung, M. Y., Commun. Stat., 1988, B17, 25.
- 5. Strand, A. L., Ind. Eng. Chem. (Anal. ed.), 1930, 2, 4.
- 6. Bliss, C. I., Ann. Appl. Biol., 1935, 22, 134.

NEW RECORDS OF FUNGI FROM INDIA

RAJENDRA SINGH, V. C. SAXENA and SUNITA THAKUR

Botany Department, Agra College, Agra 282 002, India

DURING studies on curd-rot and its relationship with aeromycoflora at Agra, several fungal species were isolated, out of which the two species briefly described below were found to be new records for India.

Phoma medicaginis Malbr. & Roum. (original reference— Rev. Mycologique Toulouse, 1886, 8, 91): Isolated from the aeromycoslora of a caulislower sield at Agra (Near Namner) in July 1986. Colonics on Czapek's agar dark-brown to black; hyphae

septate, branched, blackish-brown; pycnidia developing in 15-day-old cultures, numerous, round to ovoid, black, ostiolated, $57-104 \mu m \times 80-172 \mu m$; conidia hyaline, single-celled, ovoid, $7 \times 5 \mu m$. Specimen deposited at CAB International Mycological Institute, Kew, England (IMI 313255).

Tritirachium oryzae (Vincens) de Hogg. (original reference—CBS Studies in Mycology, 1972, 1, 22): Isolated from the aeromycoflora of cauliflower field at Agra (Near Namner) in October 1986. Colonies of Czapek's agar whitish, restricted, actinomycetous type, reverse pale yellowish; mycelium hyaline, tortuous, septate, sparingly branched, branches usually appearing near septa; conidiophore upright, long, slender, triverticillately to pentaverticillately branched; sporogenous branches tapering, $42-70 \mu m$ in length, fertile portion zig-zag; conidia apical on sympodially formed growing region, hyaline, unicelled, globose to ovate, $1.25-2.0 \mu m \times 2.0-2.5 \mu m$. Specimen deposited at CAB International Mycological Institute, Kew, England (IMI 319328).

5 December 1988; Revised 12 June 1989

HERMAPHRODITE FLOWERS IN DIOECIOUS MOMORDICA DIOICA ROXB.

U. C. JHA and R. P. ROY

Department of Botany, Patna University, Patna 800 005,

India

Momordica diolica is a semi-wild, perennial, tuberous and distinctly dioecious species of the Cucurbitaceae^{1, 2}. Polyploidization was induced in this species by colchicine treatment. Artificial triploids were also raised by crossing the diploid female with induced tetraploid male and reciprocal crosses³. All the cytotypes (diploid, triploid and tetraploid) were dioecious. But one of the hybrid males showed monoecious character and rare occurrence of hermaphrodite flowers on the branch bearing female flowers. This communication deals with morphology and pollen behaviour of hermaphrodite flowers.

Seeds of the hybrid between tetraploid semale and diploid male were sown. During the first season one plant in the F₁ generation grew vigorously and produced only male flowers. In the following season the same tuber produced some semale twigs and