

Note on the Comparative Susceptibility of Groundnut varieties to *Aphis Craccivora* Koch

The aphid, *Aphis, craccivora* Koch a serious pest of groundnut especially in those areas where rainfall is deficient. The studies were carried out at Punjab Agricultural University on the comparative resistance of different varieties to this pest. There were 19 varieties of spreading, 10 of semi-spreading and 14 of bunch group. The plot size was three rows of 5 meter length and one blank row was left between the two plots. The row to row and plant to plant spacing was 30 cm and there were 3 replications. The population of the aphids was counted from 10 randomly selected plants in each plot in the second fortnight of July.

The perusal of table reveal that there was not much difference in the resistance of different varieties with in the group. But the spreading group supported significantly higher population than semispreading and bunch group. There was no significant difference in the population between semi-spreading and bunch group of varieties. So it can be concluded that bunch group and semi-spreading varie-

ties are comparatively resistant to *Anhis craccivora* While spreading group is susceptible to the pest. Kulkarni *et al.* (1967) have reported that Asirya Mwitunde a semi-spreading variety is comparatively resistant to aphid under field conditions, Brar and Sandhu (1975) reported that mean multiplication rate under laboratory conditions was lowest on bunch varieties as compared to spreading and semi-spreading varieties.

K. S. BRAR,

Oilseeds Section,
Department of Plant Breeding
Punjab Agricultural Uni.
Ludhiana.

REFERENCE

- BRAR, K. S. and Sandhu, G. S. 1975. A note on the evaluation of resistance among different cultivars of groundnut against aphid and grey weevil Sci. Cult. 41: 445-48.
- KULKARNI, L. G. SHARIF, Y. and SHARMA, U. S. 1967. *Asirya mwtunde* groundnut gives good results at Hyderabad. *Indian Fmg* 17: 9-12.

TABLE I Comparative susceptibility of different varieties of groundnut against aphid

Spreading		Semi-spreading		Bunch	
Variety	Mean no of aphids/plant	Variety	Mean no of aphids/plant	Variety	Mean no of aphids/plant
C 66	176(12.1)	AH6595	105(10.3)	Akola white	33(5.6)
C 85	267(16.3)	A.mwitunde	60(7.7)	AK 12-24	40(6.3)
C 87	253(16.7)	C 501	47(6.7)	C 513	68(8.2)
C 112	147(12.0)	F 7	83(9.0)	C 514	92(9.3)
C 116	193(13.7)	Gogia 119-20	55(7.3)	G 515	56(7.5)
C 142	141(11.3)	HG 10	52(6.1)	Faizpuri-5	49(7.0)
C 148	228(14.6)	T 64	49(7.1)	J-XI	88(9.1)
C 156	145(12.1)	NC 4X	80(8.8)	S. Improved	116(10.3)
C 162	206(14.1)	NC 4X	60(7.5)	TG 7	39(6.0)
C 168	196(13.4)	28-206	84(9.0)	TMV 2	40(6.2)
C 173	242(15.0)			TMV 7	60(7.6)
C 184	227(14.5)			Tifton 1108	51(7.0)
C 185	321(12.8)			u/4. 47.7	53(7.2)
F 416/12-2	233(15.1)			55-437	40(6.3)
M 13	175(13.1)				
M 37	231(15.0)				
M 145	210(14.2)				
N. B. vunner	109(10.3)				
V 61-R	231(14.8)				
C. D. (P=0.05)	(N. S.)				
			(N. S.)		(N. S.)
Mean for group	206.9(13.7)		66.5(8.0)		57.4(7.8)
			C. D. (p=0.05) for group =		1.28

Figures in parentheses are \sqrt{n} transformation.