FIELD EVALUATION OF DIFFERENT LARVICIDES AGAINST ANOPHELES AND CULICINE MOSQUITOES

R. SINGH DEPARTMENT OF HEALTH, GOVT, OF HARYANA, GURGAON 122 001.

Fenthion, Abate, Primiphosemethyl, Mosquito larvicidal oil and Pyrosine oil have been evaluated as a larvicide against *Anopheles* and *Culcine* mosquitoes.

Fenthion and Abate have proved to be highly effective against the aquatic stages of mosquitoes by Wattal et al. (1975). Kaul et al. (1980) reported that Abate and Fenthion were most effective against the Masonia mosquitoes. A nance of ilternate larvicides belonging to organophosphorous (O.P.) group and Gurgaon urban.

The Gurgaon urban is having a population of 88220 situated 35 km away from Delhi. The breeding sites consisted pits, drains, wells, over-head tanks and reservoirs with moderate to heavy organic pollution. Abate was used only in was used in standing water where layer of oil was possible and Pyrosine oil in breeding places with high organic pollution. Weekly larval collections were made density was checked after 24 hrs of treatment.

The result tabulated showed that among organo-phosphorous larvicides, primiphosomethyl was most effective. It produced 100% larval kill at 12.5 g actual ingredient per hectare of water surface. Pyrosine oil was found to give showed that larvicides could effectively control the breeding of Anopheles and culticine mosquitoes. The poor impact of larvicides on adult densities was due to the large indoor water collection being left unsprayed.

ACKNOWLEDGEMENTS

The author is grateful to Dr. D.R. Virmani. Dy. Director (Malaria) and Mr. Vinood Khosla, Asstt. Director (Entomology) for their interest during the trials.

REFERENCES

Kaul, S.M., Chandersekharan, A., Das, M. & Rao, C.K. 1980. Attempted control of Monsonioides breeding with Temephos and Baytex in Kerala. J. com. Dis. 12: 42-45.

WATTAL, B.L., BHATNAGAR, V.N. & JHOSHI, G.C. 1975. Efficacy of different larvicides against Anopheles and culicine mosquitoes in weekly application scheduled lbi 1.7: 353-353.

Table—I. Field evaluation of larvicides against the mosquito larvae at Gurgaon.

Dosage i./hectare	Water temp.(°C)	рН	Pre Spray density*				Post Spray density*					
			larval instars				pupae	larval instars			pupae	
	•		1	2	3	4		1	2	3	4	
Fenthion (1000% E.0 140.0	26,4 C.)	7.5	20	16	18	12	4	9	12	14	7	Nil
Abate (500% E.C 25.0	25.3	7.5	13	14	16	11	2	5	6	8	9	Nil
Primiphoso methyl 250% E.C. 12.5		8.0	15	10	19	8	3	Nil	Nil	Nil	Nil	Nil
Mosquito- larvicidal 200 litres Pyrosine o	oil	8.5	19	12	15	7	2	10	4	7	2	Nil
225 litres	24.8	7.0	21	18	22	12	1	4	8	6	4	Ni

^{*}Average of five dips.