

and fruit borer (12.47 %) was statistically more at first interval, whereas, second and third intervals though statistically at par with each other but had less values than first interval against fruit fly (15.72, 15.73 %) and fruit borer (9.92, 9.13%). Highest yield of 434.15 q/ha was recorded with T₂ (Table 1). The application of recommended dose of vermicompost and spray of *Melia azedarach* drupes in cow urine can be used for organic production of tomato crop.

Table 1: Per cent tomato fruit infestation and yield of organically grown tomato crop

Treatments	Fruit fly			Mean	Fruit borer			Yield	
	Sampling intervals				Sampling intervals				
	I ₁	I ₂	I ₃		I ₁	I ₂	I ₃		
(T ₁)	17.26	12.63	15.12	15.00	12.14	6.05	4.89	7.69	425.52
(T ₂)	10.57	11.22	9.37	10.38	10.0	3.49	4.6	6.03	434.15
(T ₃)	18.42	17.41	13.97	16.60	12.90	8.28	6.20	9.13	422.59
(T ₄)	19.74	17.3	19.43	18.82	12.41	8.48	6.64	9.18	414.44
(T ₅)	11.79	15.30	10.88	12.66	8.12	6.20	7.69	7.34	426.66
Control	26.61	20.48	25.61	24.24	19.25	27.04	24.74	23.67	393.77
Mean	17.40	15.72	15.73		12.47	9.92	9.13		

CD(p=0.05) Sampling intervals l= 2.675 Treatment= 3.784 Interaction= 6.554 CD(p=0.05) Sampling intervals=1.855 Treatment= 2.669 Interaction= 4.62 CD(P=0.05) = 21.899.

References

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First record of the spiralling whitefly on fruit and ornamental plants in Chhattisgarh plains

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The spiralling whitefly, *Aleurodicus dispersus* Russell (Aleyrodidae: Homoptera) is a pest of many horticultural crops, as well as an extensive

range of ornamentals and shade trees. In India, it was first recorded in 1993 at Thiruvananthapuram, Kerala on tapioca. The pest is highly polyphagous and attacks around 500 plants in different countries and 280 in India alone. Recently, heavy infestation of the insect was observed in guava, papaya and several ornamental plants at Bilaspur and Chhattisgarh. The population of white fly adults on guava leaves was recorded to vary from 63 to 167 adults per leaf. The pest infests guava, papaya, custard apple, almond, *Hibiscus* spp., eggplant, rose, money plant and several other ornamental plants shown its preference towards the egg laying in peculiar spiral form on the underside of the leaves. The fruits of papaya were also observed to be preferred by the pest for egg laying. Immature and adult stages of the insect have been observed to cause damage to the plants by sucking cell sap, secreting honey dew along with white, waxy material and further creating sooty mould on leaves, as a result, photosynthetic activities and growth of the plant is adversely affected. Infested leaves become yellow, dry and drop down finally. The lady bird beetle, *Coccinella septumpunctata* and *Menochilus sexmaculatus* were also found to be associated with the pest as naturally occurring predator.

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Effect of over ripened sapota fruit as a uzi trap

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The uzi fly, *Exorista bombycis* (Louis), is a serious endoparasitoid of silkworm. Considering the menace of the uzi fly to the sericulture industry,

Table : Comparative performance of sapota fruit with uzi trap and uzi trap alone

Larval instars	Adult trapped			
	Sapota fruit with uzi trap (No.)	Increase over uzi trap alone (%)	Uzi trap (No.)	Decrease over sapota with uzi trap (%)
III instar	20.33 ± 3.00	4.43 ± 1.42	7.00 ± 2.00	1.87 ± 0.37
IV instar	29.66 ± 4.52	6.15 ± 1.98	12.66 ± 3.00	2.39 ± 0.89
V instar	35.00 ± 6.72	8.29 ± 2.19	16.33 ± 4.00	3.32 ± 0.99
Total	84.99 ± 14.24	18.87 ± 3.59	35.99 ± 6.49	7.58 ± 2.21
Mean + S.D.	27.66 ± 10.76	6.29 ± 2.07	12.00 ± 4.16	2.53 ± 0.99