



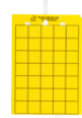
Technical Bulletin for: Carrot Rust Fly

Chamaepsila rosae • Diptera, *Psilidae* • CHAROS



DISTRIBUTION	Worldwide, wherever Apium root crops grow.
HOSTS	Carrots, Parsnips, Celery, other root vegetables and <i>Apium</i> spp..
DESCRIPTION	
Adult Moth	Adults are 5 mm long, with a slender, black abdomen and thorax, reddish-orange head, and yellow legs. Wings are a dark and transparent color and 12 mm wide in full span. The abdominal tip for females is pointed, and rounded on males.
Larvae	Maggots are stiff, white to yellow-brown and 5 mm in length.
Eggs	Eggs are white, 0.6-0.9 mm long, and 0.15 mm wide.
LIFE HISTORY	First adults emerge in late April to mate. Females lay 30-90 eggs at the base of the carrot plant in mid-May to early June. Larvae hatch and feed on roots, pupating after 3-4 weeks of feeding. The second generation emerges in late July to early August, repeating the cycle, and resulting in a third generation emerging in mid-October.

MONITORING INFORMATION

LURE, FIELD LIFE	Hexenal in a coaster lure packet. Lure longevity: Thirty (30) days	
TRAP TO USE	Yellow Sticky Card, double-sided or backfolded	 
MONITORING STRATEGY	Deploy traps when plants begin to emerge from soil, placing 2-3 traps per field for small areas and 4-6 per field for large areas (or 2.5-5 per acre). Place traps on the edge of the carrot planting, about 100m apart, prioritizing areas where non-crop hosts (i.e. trees, bushes, nettle) are growing. Check traps weekly, changing to twice a week if flies are found; stop monitoring at harvest.	
CULTURAL & PHYSICAL CONTROL	Planting later than the end of May will avoid the first generation of egg-laying flies. Harvesting an early planting by mid-June will get carrots out before the larvae enter the taproot or grow large enough to be noticed. Harvest early plantings in blocks and be sure to harvest the crop completely so that the area will not produce second-generation flies.	

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