

NEW HOSTPLANT RECORDS FOR *AGONOPTERIX CLEMENSELLA*  
(OECOPHORIDAE)

As is the case for most of the Oecophoridae, details of the biology of early stages of *Agonopterix clemensella* (Chambers) are poorly known. Hodges (1974, Gelechioidea Oecophoridae, Moths of America North of Mexico, Fascicle 6.2, E. W. Classey, Ltd., London) reports that "the larva has been reared from parsnip, *Pastinaca sativa* L. and undoubtedly feeds on native umbels." Exhaustive sampling of Umbelliferae in Tompkins County, New York, during the spring and summer months of 1977 through 1979, revealed that *A. clemensella* utilizes a broad range of both native and introduced species (Table 1). The host list includes representatives of two subfamilies and five tribes in the family Umbelliferae; ten of the sixteen species are native to North America. The host plants occur in a variety of habitats, ranging from rich woods to waste places; clearly, *A. clemensella* is a family and not a habitat specialist.

The only umbellifer examined that is consistently avoided by *A. clemensella* is *Conium maculatum* (poison hemlock); in fact, caterpillars confined to the foliage invariably died. *C. maculatum*, however, is the sole host for *A. alstroemeriana*, a recently introduced European species (Berenbaum and Passoa, in preparation).

Larvae can be collected throughout June; adults emerge in late June and early July, approximately 10-14 days after pupation. Caterpillars on each plant species were reared through to the adult stage to verify their identity. Identifications were made by J. Franclemont and R. Brown of the Department of Entomology at Cornell University; representative specimens are on deposit in the Cornell University Collection, Lot 1023, Sublot 41B. This work was supported by National Science Foundation research grant DEB 76-20114 to P. Feeny.

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TABLE 1. Hostplants of *Agonopterix clemensella* in Tompkins County, New York. (Species arranged according to Drude, 1898, Umbelliferae, in *Die natürlichen Pflanzenfamilien* 3:63-250.)

Saniculoideae		
Saniculeae	* <i>Sanicula gregaria</i>	Damp woods
Apioideae		
Scandicinae	* <i>Osmorhiza longistylis</i>	Damp woods
Carinae	<i>Apium graveolens</i>	Greenhouse
	* <i>Zizia aptera</i>	Dry woods
	* <i>Zizia aurea</i>	Damp woods
	* <i>Cicuta maculata</i>	Wet meadows
	* <i>Cryptotaenia canadensis</i>	Damp woods
	* <i>Taenidia integerrima</i>	Dry woods
	<i>Aegopodium podagraria</i>	Waste places
	* <i>Sium suave</i>	Wet meadows
Peucedaneae	* <i>Angelica atropurpurea</i>	Wet meadows
	<i>Levisticum officinale</i>	Waste places
	<i>Pastinaca sativa</i>	Waste places
	* <i>Heracleum lanatum</i>	Waste places
	<i>Heracleum mantegazzianum</i>	Waste places
Dauceae	<i>Daucus carota</i>	Waste places

\* Species considered native to North America (according to Fernald, 1950, Gray's Manual of Botany, 8th edition, American Book Co., New York).

Novel plant secondary compounds do not guarantee increased resistance to generalist herbivores. Resistance of the generalist moth *Trichoplusia ni* (Noctuidae) to a novel chemical defense in the invasive plant *Conium maculatum*. @article{Castells2007ResistanceOT, title={Resistance of the generalist moth *Trichoplusia ni* (Noctuidae) to a novel chemical defense in the invasive plant *Conium maculatum*}, author={Eva Junca Castells and May R Berenbaum}, journal={Chemoecology}, year={2007}, volume={18}, pages={11-18}}. New hostplant records for *Agonopterix clemensella* (Lepidoptera: Oecophoridae). *J. Lep. Soc.* 36: 160. Berenbaum, M. R., and S. Passoa. 1983. Notes on the biology of *Agonopterix alstroemeriana* (Clerck), with description of the immature stages (Oecophoridae). *J. Lepid. Soc.* 37: 38-45. Berenbaum, M. R., and T. L. Harrison. 1994. *Agonopterix alstroemeriana* (Oecophoridae) and other lepidopteran associates of poison hemlock (*Conium maculatum*) in east central Illinois. *Great Lakes Entomol.* 27: 1-5. *Agonopterix* is a moth genus of the superfamily Gelechioidea. It is placed in the family Depressariidae, which was often "particularly in older treatments" considered a subfamily of the Oecophoridae or included in the Elachistidae. *Agonopterix abditella* Hannemann, 1959. *Agonopterix abjectella* Christoph, 1882. *Agonopterix acuta* (Stringer, 1930). *Agonopterix acutivalvula* S.X. Wang, 2007. *Agonopterix adspersella* (Kollar, 1832). *Agonopterix agyrella* (Rebel, 1917). *Agonopterix alpigena* (Frey, 1870).