

Bruce Spanworm and Winter Moth Pheromone Trap Survey

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The so-called winter moth, *Operophtera brumata*, is an insect pest that was introduced to North America from Europe. The related Bruce spanworm moth (*O. bruceata*) looks almost identical to the winter moth in all life stages, and mixed populations of these species occur in Massachusetts. Both winter moth and Bruce spanworm are attracted to pheromone used for this survey.

(See http://www.umassgreeninfo.org/fact_sheets/defoliators/winter_moth.pdf)

In 2006, surveys for Bruce spanworm moths were conducted in cooperation with Joe Elkinton at the University of Massachusetts¹, who was attempting a world-wide survey of species of *Operophtera*, specifically *O. brumata*.

Protocol for winter moth survey:

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Databases\Bruce_Spanworm_for_VMC_Library\Winter Moth\WM trapping protocols
06.doc

Data sheet for survey:

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Databases\Bruce_Spanworm_for_VMC_Library\Bruce Spanworm and Winter Moth
Phermone Trap Survey\Winter Moth Survey Data Sheets\Winter Moth Data Sheet
2006.xls

Results of winter moth survey:

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Databases\Bruce_Spanworm_for_VMC_Library\Bruce Spanworm and Winter Moth
Phermone Trap Survey\Winter Moth Survey Data Sheets

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Phermone Trap Survey\Winter Moth Survey Data Sheets

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Databases\Bruce_Spanworm_for_VMC_Library\Bruce Spanworm and Winter Moth
Phermone Trap Survey\Winter Moth Site Summary.doc

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Databases\Bruce_Spanworm_for_VMC_Library\Bruce Spanworm and Winter Moth
Phermone Trap Survey\2006NewEnglandMap.pdf

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Databases\Bruce_Spanworm_for_VMC_Library\Bruce Spanworm and Winter Moth
Phermone Trap Survey\ WM Pheromone Trap Survey 05 final.doc

Note: For more information about survey work for Bruce spanworm eggs and larvae, see the VMC Data Library under **Bruce Spanworm Egg Survey** and **Bruce Spanworm Larvae Survey**.