

FIELD NOTES - HURON MOUNTAINS
MARQUETTE COUNTY, MICHIGAN

David C. L. Gosling
1979 - 1984

Collections were made in the Huron Mountains area beginning in July 1979, on lands belonging to the Huron Mountain Club, the Carroll Paul Forest, Inc., the Longyear Companies, and the Drury family.

COORDINATE GRID

Occasional collecting sites are designated using a coordinate grid based on 1/4 sections (= 40 acres or 16.1875 ha) with 1320-ft (402.337 m) intervals. The grid is numbered beginning with the NW 1/4 of the SW 1/4 of Sec.13, T52N, R29W. W-E intervals are numbered from 1 to 32, ending at E side of Sec.31, T52N, R27W. N-S intervals are designated by letters from A to Z, ending at S side of Sec.13, T51N, R29W. The W edge of the grid is midway between Howe and Rush lakes, the S edge just over 2 miles (3.2 km) S of Ives Lake, and the E edge just E of the mouth of the Salmon Trout River (Map 1).

PRINCIPAL COLLECTING SITES

Locations where numerous collections were made are designated as collecting sites and identified by site number (e.g., S#1).

SITE 1. The right-of-way for the power line, from the Salmon Trout River just N of the road bridge running SE parallel to the county road for ca. 250 m. This site was clear-cut in August-September 1980, and is 10-15 m wide (grid 027, P28).

SITE 2. A foot-trail along the E bank of the Salmon Trout River running S from the road bridge for 0.5 mile (0.8 km) (grid 027, P27, P28, Q27).

SITE 3. A foot-trail along the W bank of the Salmon Trout River running N from the road bridge for 1 mile (1.6 km), to ca. 200 m E of the mouth of Conway Creek (grid M27, N27, 027).

SITE 4. Area around Stone House and other buildings on W side of Ives Lake, including mowed fields N and S of Elm Creek (grid P16, P17, Q16).

SITE 5. Several small clearings along the S or E sides of the road around the S end of Ives Lake (R17, R18, R19, Q19).

SITE 6. Site E of Ives Lake and SW of Lily Pond, logged in December 1983 and May 1984 (grid Q20).

SITE 7. A small bog along Rush Creek about midway between Rush and Pine lakes, ca. 10 m S of road to Rush Lake (grid E9).

IMPORTANT NOTE: Field numbers were frequently reused for further collecting at the same site and under similar conditions on subsequent dates in the same year. The date given for a number is the first time such collections were made that season.

1979 SEASON

- #96. 15-VII-79. From Pinus logs yarded along N side of county road E of Salmon Trout R. 027.
- #97. 15-VII-79. Conway Lake, around Schweinsberg camp at NE end (G25); and from cut Pinus resinosa logs there; and from P. resinosa tops and windthrown Pinus strobus and Picea glauca in "Pinery" behind camp (G26). Pogonocherus penicillatus from Picea glauca .
- #98. 15-VII-79. Same sites as #97 but collecting at night by headlamp.
- [#99 not in Huron Mountains area.]
- #100. 17-VII-79. Same sites as #97 but collecting at night by headlamp.
- #101. 18-VII-79. Conway Lake, "Camp 42" logging site (K23). Monochamus from Pinus strobus and Abies balsamea logs.
- #102. 18-VII-79. Same sites as #97; lepturines from Rosa sp. along shore; a few from Apocynum androsaemifolium.
- #103. 18-VII-79. Same site as #101; collecting at night by headlamp.
- #104. 18-VII-79. Same sites as #97; collecting at night by headlamp.

1980 SEASON

- #28. 6-VI-80. Reared from Pinus strobus bolts from Conway Lake (G26).

1981 SEASON

- #38. 20-VI-81. Reared from Pinus strobus bolts from Conway Lake (G26); same lot as 1980 #28.
- [#39 not in Huron Mountains area]
- #40. 1-VII-81. Conway Bay, from beach drift, F25, F26, F27.
- #41. 1-VII-81. From blossoms Rubus parviflorus and Rubus idaeus along Loop Rd, R8.
- #42. 1-VII-81. From blossoms R. parviflorus along Ives Lake Rd, 024.

- #43. 1-VII-81. From blossoms R. parviflorus along main road, N25.
- [#44 not in Huron Mountains area]
- #45. 2-VII-81. From blossoms Heracleum maximum at road bridge over Salmon Trout R., 027.
- #46. 2-VII-81. From cut logs: Pinus strobus, P. resinosa, Tsuga canadensis; cut August-September 1980 for power line, S#1.
- #47. 2-VII-81. From cut logs: Acer spp., Quercus rubra, Betula papyrifera; same clear-cut as #46, S#1.
- #48. 2-VII-81. From netting of Malaise traps, S#1.
- #49. 2-VII-81. From cut logs: Tsuga canadensis and Thuja occidentalis; yarded along Loop Rd, T14.
- #50. 2-VII-81. From Malaise trap, set 1-VII along Loop Rd., R14. Removed 9-VII.
- #51. 2-VII-81. From Malaise trap, set 1-VII along Loop Rd., T14. Removed 9-VII.
- #52. 2-VII-81. From 2 Malaise traps, set 1-VII along Loop Rd., T10. Removed 8-VII.
- #53. 2-VII-81. From Malaise trap, set 1-VII along Ives Lake Rd. at Section-9 Rd., R18 (S#5). Removed 24-VII.
- #54. 2-VII-81. From 3 Malaise traps, set 1-VII in pines NE of Conway Lake, G26. Removed 24-VII.
- #55. 2-VII-81. From 2 Malaise traps, set 1-VII in clearing along road, NE end of Conway Lake, G25. Removed 9-VII.
- #56. 2-VII-81. From 3 Malaise traps, set 2-VII, S#1; 4 traps added 9-VII.
- #57. 2-VII-81. Collecting at S#1 at night by headlamp.
- #58. 3-VII-81. Beaten from branches Malus pumila, at Club Farm, J17.
- #59. 3-VII-81. From blossoms Heracleum maximum, Thalictrum dasycarpum; on trails along Salmon Trout R., S#2 and S#3. Thalictrum mostly gone by 9-VII; few Heracleum after 11-VII; Sambucus canadensis blooming from 11-VII.
- 3-VII-81. A hungry hatch of Stomoxys has arrived at the shoreline.
- #60. 5-VII-81. From blossoms Rosa sp., along beach NW end Conway Bay,

- E24.
- #61. 5-VII-81. From foliage Asclepias syriaca at Club Farm, J17; also from blossoms after 18-VII.
- #62. 6-VII-81. From blossoms Rosa sp. in clearing along main road, L19.
- #63. 6-VII-81. From blossoms R. parviflorus, clearing along main road, L19.
- #64. 6-VII-81. From window screen at Stone House, Ives Lake, Q16.
- #65. 6-VII-81. From netting of Malaise trap along Loop Rd., T10.
- #66. 6-VII-81. Generator failure frustrated attempt at UV lighting, R14. Microgoes collected from top of generator.
- #67. 7-VII-81. Beaten from cut branches Tilia americana, S#1.
- #68. 7-VII-81. From stumps P. resinosa, beneath slabs, S#1.
- #69. 7-VII-81. At UV light sheets, along Loop Rd., R14. Humid, warm, 1/4 moon; good conditions but few cerambycids.
- #70. 8-VII-81. Beaten from branches on cut tops P. strobus and P. resinosa, S#1.
- #71. 8-VII-81. Beaten from cut branches Quercus rubra, S#1.
- #72. 10-VII-81. From 2 Malaise traps, set 9-VII in clearing along main road, L19. 1 trap removed 10-VII.
- #73. 10-VII-81. From blossoms Solidago sp. along Ives Lake Rd., P21.
- #74. 10-VII-81. From Malaise trap set 10-VII in clearing beside pine plantation, J17. Removed 15-VII.
- #75. 10-VII-81. Beaten from dead branch P. strobus along Ives Lake Rd., O24.
- #76. 10-VII-81. Beaten from dying sapling Ulmus americana along Section-9 Rd., R18.
- #77. 10-VII-81. Beaten from Salix sp. along Section-9 Rd., R18.
- #78. 10-VII-81. From bark of stumps P. resinosa, at night, S#1.
- #79. 12-VII-81. From blossoms Spiraea alba along Ives Lake Rd., Q19.
- #80. 12-VII-81. In flight, Conway Bay beach, F25.

- #81. 17-VII-81. From blossoms Spiraea alba, in Rush Creek Bog, S#7.
- #82. 17-VII-81. From blossoms Spiraea alba, N edge of Cranberry Bog, H17-I17.
- #83. 17-VII-81. From bark of living Ulmus americana, Ives Lake, S#4
- 17-VII-81. Observed Trigonarthris proxima ovipositing on exposed heartwood of living Ulmus americana, S#4.
- #84. 17-VII-81. From Malaise trap set 15-VII in jack pines, G17. Removed 24-VII.
- #85. 18-VII-81. From foliage Elymus mollis on beach, Conway Bay, F25.
- #86. 19-VII-84. In flight, N edge Cranberry Bog, I17.
- #87. 19-VII-81. From blossoms Cirsium arvense in clearing along main road, J17.
- #88. 19-VII-81. In flight along Loop Rd., T14. Coll. by N.W.G.
- #89. 21-VII-81. Pruned Quercus twig from NE rim Canyon Lake, T4. Coll. by N.W.G. Dead larva recovered from gallery.
- #90. 22-VII-81. Beaten from windthrown Tilia americana along road near W side of 1st Pine Lake. Saperda and Eupogonius from crown sprouts; other spp. from dead branches.
- #91. 23-VII-81. Beaten from branches of dead P. strobus at E end Pine River Bay, E20.
- #92. 23-VII-81. Beaten from dead Picea glauca W of Pine River Point, E20.
- #93. 23-VII-81. Beaten from dead Acer sp. W of Pine River Point, E20.
- #94. 23-VII-84. Beaten from branch of cut P. strobus along Loop Rd., S14. Tree was cut last winter and left because of heart rot, dbh 132.5 cm.
- #95. 23-VII-81. In flight around cut P. strobus, same tree as #94.
- #96. 23-VII-81. From bark of cut P. strobus, same tree as #94.
- #97. 23-VII-81. From trunk of cut Abies balsamea, S#1.
- #98. 24-VII-81. From 2 Malaise traps set 24-VII along Loop Rd., S14.
- #99. 24-VII-81. Beaten from cut Picea glauca, S#1.
- #100. 25-VII-81. In flight, S#1. Agrilus on Quercus foliage.

1982 SEASON

- #5. 30-V-82. Reared from Quercus rubra branches from S#1.
- #6. 30-V-82. Reared from Tilia americana branches from S#1.
- [#7-9 not in Huron Mountains area]
- #10. 30-VI-82. From Malaise traps, 4 set 29-VI, 4 set 30-VI, S#1.
- #11. 30-VI-82. From Malaise traps, 1 set 29-VI, 3 set 30-VI, S#5.
- #12. 30-VI-82. From 4 Malaise traps set 30-VI, "Chicken Farm," S14.
Removed 2-VII.
- [#13-19 not used]
- #20. 30-VI-82. From blossoms Heracleum maximum, Thalictrum dasycarpum
and Rubus parviflorus; along Salmon Trout R., S#2 and S#3.
- #21. 30-VI-82. From netting of Malaise traps, S#1.
- #22. 30-VI-82. From blossoms R. parviflorus along Ives Lake Rd., 022,
P22.
- #23. 30-VI-82. From foliage Ulmus americana and Acer saccharum near
dead Ulmus along Salmon Trout R., N27.
- #24. 1-VII-82. From beach drift, Conway Bay, F25, F26, F27.
- #25. 1-VII-82. From foliage Sambucus canadensis along Salmon-Trout R.,
Q28.
- #26. 1-VII-82. Beaten from branches Malus pumila at Club Farm
clearing, J17.
- #27. 1-VII-82. From blossoms Viburnum dentatum (?) along Ives Lake
Rd., R18.
- #28. 1-VII-82. From blossoms R. parviflorus along Conway Lake West
Rd., H20.
- #29. 2-VII-82. From blossoms R. parviflorus at E end Pine River Bay
beach, F19.
- #30. 2-VII-82. From bark of living Ulmus americana, S#4. Specimens
observed on two trees.
- #31. 5-VII-82. From end of bolt Betula alleghaniensis, C1. This area

NE of Howe Lake was logged in winter 1981-82.

1983 SEASON

- #6. 11-VI-83. Collected at UV light sheet, S#1, 2200-2315 hrs.
- #7. 12-VI-83. From blossoms Sambucus pubens, S#3; bloom nearly finished.
- #8. 12-VI-83. From blossoms Prunus virginiana, S#2; bloom just starting.
- #9. 12-VI-83. Syrphids from blossoms Barbarea vulgaris, S#4.
- #10. 12-VI-83. From Malaise traps, S#5; 3 set 12-VI, 1 set 23-VI, 1 set 1-VII, 2 removed 9-VII, 3 removed 10-VII; 5 set 3-VIII.
- #11. 12-VI-83. From Malaise trap along Ives Lake Rd. E of Lily Pond, 022; set 12-VI, removed 23-VI.
- #12. 12-VI-83. From Malaise traps on outcrops, S side of Breakfast Roll, 022; 2 set 12-VI, 1 removed 17-VI, 1 removed 9-VII.
- #13. 12-VI-83. From Malaise trap set in clearing S of Ives Lake Rd., 026; removed 23-VI.
- #14. 12-VI-83. From Malaise trap set at S edge of mowed area, S#4; removed 23-VI.
- 12-VI-83. Amelanchier sp. in bloom along Pine R. at first bridge.
12-VI-83. Stomoxys hatch; flies bad near shore.
- #15. 13-VI-83. From Malaise traps, S#1; 6 set 13-VI, 4 set 17-VI, 5 set 23-VI, 1 removed 9-VII, 14 removed 10-VII; 10 set 3-VIII.
- #16. 13-VI-83. From 2 Malaise traps set 13-VI on beach, N side of Ives Lake, ca. 50 m E of outlet; removed 23-VI.
- #17. 13-VI-83. From Malaise trap set 13-VI in abandoned roadway E of Minong (Case camp), E side of Ives Lake, 019; removed 23-VI.
- #18. 13-VI-83. From bait bolts, cut 12-VI, Pinus strobus and Picea glauca, S#4. (same as #42-43)
- #19. 13-VI-83. Observed Monochamus scutellatus on cut Abies balsamea, S#1.
- #20. 13-VI-83. From blossoms Prunus virginiana, side of Breakfast Roll, 022.

- #21. 13-VI-83. Collected at UV light sheet, S#1, 2213-2300 hrs.; conditions seem perfect but collecting is poor.
- 14-VI-83. Prunus virginiana in full bloom, S#2; Sambucus pubens bloom finished; Cornus rugosa bloom just starting.
- #22. 14-VI-83. Crawling across trail, 026.
- #23. 14-VI-83. From bait bolts Pinus strobus, N19. (same as #40)
- #24. 14-VI-83. From blossoms Prunus virginiana, S#2.
- #25. 15-VI-83. From blossoms Prunus virginiana, along road E of bridge, 027.
- #26. 15-VI-83. From blossoms Cornus rugosa, S#2.
- #27. 15-VI-83. From blossoms Aralia ^{sp}medicaulis, S#2.
- #28. 15-VI-83. From blossoms Prunus virginiana, along Ives Lake Rd., R17.
- #29. 15-VI-83. From beach near outlet, N side of Ives Lake, N19.
- #30. 16-VI-83. From dead stump Pinus resinosa, S#1; under slab.
- #31. 17-VI-83. (same as #30)
- #32. 18-VI-83. From beneath bark Pinus resinosa stump, S#1; salpingid adults in cells apx. 2 cm diam. constructed of frass.
- #33. 18-VI-83. From blossoms Viburnum lentago, S#2.
- #34. 18-VI-83. From blossoms Cornus rugosa, along Ives Lake Rd., S#5.
- #35. 18-VI-83. From blossoms Sorbus aucuparia, along Ives Lake Rd., R18 (S#5).
- #36. 18-VI-83. M. scutellatus adult emerging from P. strobus log, S#1.
- #37. 18-VI-83. From netting of Malaise traps, S#1.
- #38. 19-VI-83. From blossoms Prunus virginiana, S#3.
- #39. 20-VI-83. From blossoms Acer spicatum, Q28 (S#2).
- #40. 20-VI-83. From bait bolts Pinus strobus, N19. (same as #23)
- #41. 21-VI-83. From blossoms Cornus rugosa, S#3.
- #42. 20-VI-83. From bait bolts P. strobus, S#4. (same as #18)

- #43. 20-VI-83. From bait bolts Picea glauca, S#4. (same as #18)
- 22-VI-83. Salmon Trout River in flood, up 1.4 m from rain last night; S#2 and S#3 completely flooded.
- #44. 22-VI-83. From beach drift, Pine River Bay, Fl8.
- #45. 22-VI-83. Collected at UV light sheet, on Loop Rd., Q14; warm but near full moon and too windy, poor collecting.
- #46. 23-VI-83. From ends of yarded sawlogs, S#4; nearly all from Betula alleghaniensis, some ovipositing; also on Acer saccharum, Quercus rubra.
- #47. 24-VI-83. From blossoms Rubus parviflorus near bridge, 027.
- #48. 24-VI-83. From blossoms Thalictrum dasycarpum, S#2.
- #49. 24-VI-83. From blossoms Rubus alleghaniensis (?), near gate, 027.
- #50. 24-VI-83. From bait bolts P. strobus, S#1.
- #51. 24-VI-83. From bait bolts Picea glauca, N19.
- #52. 24-VI-83. From end of sawlog Acer saccharum, S#4.
- #53. 24-VI-83. From foliage Acer spicatum, Q28 (S#2).
- #54. 24-VI-83. Reared from pupa found beneath bark of Quercus rubra log, S#1.
- #55. 25-VI-83. From blossoms R. parviflorus, along Ives Lake Rd., 022, P22.
- #56. 25-VI-83. Attracted to lighted window at Stone House at night, S#4.
- #57. 28-VI-83. Beaten from dead sapling Fraxinus sp., P27 (S#2).
- #58. 28-VI-83. From blossoms Heracleum maximum, S#2.
- 28-VI-83. At S#2: first Heracleum bloom, Thalictrum ca. 20% in bloom, Cornus finished, some Acer spicatum bloom. At S#3: 1 Cornus still blooming, Thalictrum just about to bloom.
- 28-VI-83. Observed Saperda tridentata ovipositing on bark Ulmus americana, S#4, 1630 hrs. in full sun.
- #59. 29-VI-83. From bait bolts Picea glauca, S#1.
- 29-VI-83. Freshly pruned twig Quercus rubra, S#1. Retained for rearing but borer died after pupation.

- 30-VI-83. Observed first Physocnemum on Ulmus americana, S#4.
- #60. 30-VI-83. Beaten from branches of windthrown Tilia americana, N of Ives Lake Rd. E of Lily Pond, 022.
- #61. 30-VI-83. From bait bolts Pinus resinosa, S#1.
- #62. 30-VI-83. From ends of yarded sawlogs Acer saccharum, S#4; also observed Xylotrechus colonus but unable to collect it.
- #63. 30-VI-83. From windthrown Picea glauca, Chicken Farm, S14.
- #64. 1-VII-83. From blossoms Heracleum maximum, S#3.
- #65. 1-VII-83. Beaten from branches Malus pumila, Club Farm, J17.
- #66. 1-VII-83. From bark of Ulmus americana, S#4. Specimens eventually collected from all 3 trees W of silos and 2 trees N of Elm Creek; probably in 1-2 other trees as well.
- #67. 2-VII-83. From 2 Malaise traps set 2-VII along Loop Rd. near site of old sawmill, Q14; removed 9-VII.
- #68. 2-VII-83. In flight at gate, 027.
- #69. 4-VII-83. From blossoms Thalictrum dasycarpum, S#3.
- #70. 5-VII-83. Emerging from P. strobus log, S14; same log as 1981, #94-96.
- #71. 6-VII-83. Beaten from branches of windthrown Tilia americana, along W bank Salmon Trout R., 027.
- #72. 7-VII-83. Beaten from stump sprouts Tilia americana near bridge, 027.
- #73. 8-VII-83. From foliage Amelanchier sp., on Breakfast Roll, 022; coll. by N.W.G.
- #74. 9-VII-83. Beaten from Populus grandidentata sprout in clear-cut, C12.
- #75. 10-VII-83. From blossoms Sorbaria sorbifolia around silos, S#4.
- #76. 10-VII-83. From end of Acer saccharum sawlog yarded along Loop Rd. near Florence Pond, Q13.
- #77. 11-VII-83. Reared from branches Tilia americana, S#1; lot from 1981.
- #78. 11-VII-83. Reared from branches Quercus rubra, S#1; lot from 1981.

[#79-83 not in Huron Mountains area]

- #84. 3-VIII-83. In flight, S#1, 2110 hrs.
- #85. 4-VIII-83. From blossoms Spiraea alba along Ives Lake Rd., S#5; bloom is past prime.
- #86. 4-VIII-83. From blossoms Spiraea alba, S#7; very few blossoms left.
- #87. 4-VIII-83. From blossoms Spiraea alba, N edge of Cranberry Bog, H17; few blossoms accessible because of high water level.
- #88. 4-VIII-83. From blossoms Asclepias syriaca, Club Farm, J17; past prime.
- #89. 4-VIII-83. Beaten from branches of windthrown P. strobus, J17.
- #90. 5-VIII-83. In flight, E end of Rush Lake, E8.
- #91. 5-VIII-83. Ovipositing in pileated woodpecker excavation in dead Salix sp. along Salmon Trout R., S#3.
- #92. 5-VIII-83. From Thuja occidentalis log along trail, M26.
- #93. 5-VIII-83. From blossoms Eupatorium maculatum, S#3.
- #94. 6-VIII-83. From blossoms Cornus rugosa E of Ives Lake Rd., Q19 (S#5).

1984 SEASON

- #5. 4-VI-84. Reared from Pinus strobus bolts, cut 11-VI-83, S#1, S#4, N19.
- #7. 8-VI-84. Reared from Picea glauca bolts, cut from windthrow 11-VI-83, S#1, S#4, N19.
- #8. 8-VI-84. Reared from Tilia americana bolts, cut from windthrow 13-VI-83, S#1, 022.
- #9. 8-VI-84. Reared from Abies balsamea bolts, cut from windthrow 13-VI-83, S#1, N19.
- #11. 13-VI-84. Reared from Quercus rubra bolts, cut 13-VI-83, S#1.

20-VI-84. Unusually warm weather earlier in June has advanced phenology; Cornus bloom finished; Thalictrum starting; Physocarpus

opulifolius and Rubus parviflorus in bloom.

#12. 21-VI-84. From 14 Malaise traps set 20-VI, S#1; removed 4-VII, set 24-VII, removed 4-VIII.

#13. 21-VI-84. From 3 Malaise traps set 21-VI, S#5; removed 3-VII, 5 traps set 25-VII, removed 4-VIII.

#14. 21-VI-84. From blossoms Rubus alleghaniensis (?), S#3.

#15. 21-VI-84. From blossoms Acer spicatum, S#3.

#16. 21-VI-84. From netting of Malaise traps, S#1.

#17. 21-VI-84. From blossoms Heracleum maximum and Thalictrum dasycarpum, S#3.

#18. 21-VI-84. From sawlogs Pinus strobus yarded E of Ives Lake, S#6. Logging operations here December 1983 and May 1984.

#19. 21-VI-84. From sawlogs Acer saccharum, S#6.

#20. 21-VI-84. From sawlogs Picea glauca, S#6.

#21. 21-VI-84. From sawlogs Pinus resinosa, S#6.

#22. 21-VI-84. From stumps Pinus strobus, S#6.

#23. 21-VI-84. In flight, logged area, S#6.

#24. 21-VI-84. From sawlogs Tsuga canadensis, S#6.

#25. 22-VI-84. From stumps Picea glauca, S#6.

#26. 22-VI-84. From bark Ulmus americana, S#4; from 3 trees W of silos; only middle tree has foliage this year; Physocnemum taken from all 3 trees, but only 2 from S tree (last foliage on this tree 1981).

#27. 21-VI-84. From blossoms Smilacina racemosa near gate, 027.

#28. 22-VI-84. From sawlogs P. strobus at night by headlamp, S#6.

#29. 22-VI-84. In flight, at night, S#6.

#30. 22-VI-84. From stumps P. strobus at night by headlamp, S#6.

#31. 22-VI-84. From 4 Malaise traps set 22-VI, S#6; removed 3-VII, set 25-VII, removed 4-VIII.

#32. 22-VI-84. From netting of Malaise traps, S#6.

#33. 23-VI-84. From blossoms Heracleum maximum and Thalictrum

dasycarpum ,S#2.

- #34. 24-VI-84. From sawlogs Betula alleghaniensis, S#6.
- #35. 25-VI-84. From sawlogs Populus grandidentata yarded along county road E of bridge, P28.
- #36. 25-VI-84. From sawlogs P. strobus, same site as #35, P28.
- #37. 25-VI-84. Beaten from dead branch Quercus rubra at Stone House,S#4; tree was struck by lightning last summer.
- #38. 26-VI-84. Beaten from branches Picea glauca tops, S#6.
- 28-VI-84. Freshly pruned twig Quercus rubra from tree behind Stone House, S#4; retained for rearing.
- #39. 30-VI-84. Beaten from windthrown (1983) Tilia americana, S#3. (same tree as 1983 #71)
- #40. 30-VI-84. From trunk of dying Tsuga canadensis, S#6.
- #41. 30-VI-84. Ovipositing in wound on trunk Tsuga canadensis, S#6.
- #42. 30-VI-84. From blossoms Thalictrum dasycarpum, by Lily Pond, P21.
- #43. 30-VI-84. At lighted windows, Stone House, Ives Lake, S#4.
- #44. 30-VI-84. From stump Picea glauca at night by headlamp, S#6.
- #45. 1-VII-84. From blossoms Thalictrum dasycarpum, S#3.
- #46. 1-VII-84. At UV light on porch at Stone House, S#4.
- #47. 2-VII-84. From blossoms Chrysanthemum leucanthemum, S#4.
- #48. 2-VII-84. On porch at Stone House, S#4.
- #49. 2-VII-84. From sawlog Betula alleghaniensis, Q21 ,S#6.
- #50. 2-VII-84. From sawlogs Populus grandidentata, S#6.
- #51. 5-VII-84. Reared from bolts Abies balsamea (windthrown 1983), S#6.
- #52. 24-VII-84. In flight, S#1.
- #53. 25-VII-84. From blossoms Spiraea alba, Rush Creek Bog, S#7.
- #54. 25-VII-84. From blossoms Spiraea alba, Q19, S#5.
- #55. 25-VII-84. Beaten from branches Malus pumila, R19, S#5.

- 25-VII-84. Freshly pruned twigs Quercus rubra from trees near first bridge over Pine River, Fl4; also twigs from S#1, S#4; retained for rearing.
- #56. 26-VII-84. From beach drift, Conway Bay, F26.
- #57. 28-VII-84. Beaten from branches Malus pumila, S#4.
- #58. 28-VII-84. From sawlogs Thuja occidentalis, S#6.
- #59. 28-VII-84. Beaten from branches Pinus resinosa tops, S#6.
- #60. 28-VII-84. From trunk of dead Acer saccharum along driveway, S#4.
- #61. 29-VII-84. Beaten from branches windthrown (VI-1984) Acer saccharum near gate, 027.
- #62. 29-VII-84. On bark of same tree as #61.
- #63. 29-VII-84. Beneath bark of decayed sawlog Tsuga canadensis, near gate, 027.
- #64. 29-VII-84. From blossoms Daucus carota, meadow below skeet field, C10.
- #65. 30-VII-84. In flight, S#7.
- #66. 30-VII-84. From blossoms Cicuta bulbifera, S#7.
- #67. 30-VII-84. From blossoms Eupatorium perfoliatum, C10.
- #68. 1-VIII-84. Beaten from branches Malus pumila, C10.
- #69. 2-VIII-84. From blossoms Spiraea alba, S edge of Cranberry Bog, I17.
- #70. 2-VIII-84. From blossoms Cirsium arvense, old field N of pine plantation, I17.
- #71. 4-VIII-84. In flight, Ives Lake Rd. E of Lily Pond, P22.