tooth on inner surface near apex, and with numerous minute spines, stouter on inner surface; fore tibiae with slenderer spines; fore tarsi with a blunt tooth on inner surface.

Abdomen slender, about equal in width to the pterothorax. Tube about three-fourths as long as head and a little less than half as wide at apex as at base, paler in apical half. Marginal abdominal bristles (excepting those on segment 9, which are pointed and about equal in length to tube) moderately short, blunt, yellowish; terminal bristles slightly longer than tube, brown, pointed.

Measurements of holotype: Length 2.93 mm.; head, length 0.468 mm., width 0.324 mm.; prothorax, length (along median dorsal line) 0.204 mm., width (inclusive of coxæ) 0.558 mm.; pterothorax, width 0.552 mm.; abdomen, width 0.552 mm.; tube, length 0.348 mm., width at base 0.122 mm., at apex, 0.066 mm.

Antennal segments:	1	2	3	4	5	6	7	8
Length (μ)	78	87	165	174	154	94	78	47
Width (μ)	49	41	60	63	57	39	33	18
Total length, 0.877 mm.								

Described from one female taken in flight, by Lieut. A. W. Jobbins-Pomeroy, at Ossidinge, Kamerun, in October, 1915.

EXPLANATION OF PLATE IV.

(Minute pubescence not shown.)

Fig. 1. *Podothrips denticeps* sp. nov., head and prothorax, female, holotype.

Fig. 2. *Pselaphothrips pomeroyi* gen. et sp. nov., head and prothorax, female, holotype.

Fig. 3. *Pselaphothrips pomeroyi*, segments 3 and 4 of right antenna, female, holotype.

Fig. 4. *Phlaothrips coriaceus* Haliday, segments 3 and 4 of right antenna, female.

Fig. 5. *Acanthothrips albivittatus* Hood, segment 3 of right antenna, female.

Fig. 6. *Acanthothrips magnafemoralis* Hinds, segment 3 of right antenna, female.

Fig. 7. *Acanthothrips nodicornis* Reuter, head, female.

A PRELIMINARY LIST OF THE ODONATA OF CONCORD, MASS.

BY R. HEBER HOWE, JR.,
Concord, Mass.

Two years ago I interested one of my students in making a collection of the local dragon flies of Concord for the Thoreau Museum of Natural History of the Middlesex School. This stu-

dent, Mr. E. L. Peirson, Jr., collected on occasional afternoons from April until early June, and his material was determined through the kindness of Dr. P. P. Calvert. Mr. Peirson published in the Proceeding of this Museum (Vol. I, p. 41, 1915) a list of twelve species, a few of which had been collected preceding his work and which had been determined by Mr. C. W. Johnson. Mr. Peirson published this list largely because he had secured the second capture of *Williamsonia lintneri* in New England (see also Ent. News, 26, p. 238, 1915), a species never before recorded from these states.

During the past summer, because of continued residence in Concord, I have had the opportunity to collect almost daily, and have visited practically all the ponds and the river valleys, with the result that I am now able to publish a considerable list of species. No doubt further collecting in April and May will add many species in the Gomphinae. Throughout the summer I had the help of my daughter, Miss Susan A. Howe, and in my determinations I have had the continual aid of Mr. Edward B. Williamson, and also occasionally that of Mr. Richard A. Muttkowski and Dr. E. M. Walker. To these gentlemen I extend my sincere thanks.

In the present list I have made my comparisons of distribution with Dr. Calvert's List of the *Odonata* of New England (Occas. Papers Bost. Soc. Nat. Hist., 7, 1915).

ZYGOPTERA.

AGRIONIDÆ.

CALOPTERYGINÆ.

1. *Calopteryx æquabilis* Say. Collected by Peirson. ♂. May.
2. *C. maculata* (Beauvois) Burm. Common. ♂ and ♀ s. May to August 19.

LESTINÆ.

3. *Lestes eurinus* Say. Common. ♂ and ♀ s. July.
4. *L. congener* Hagen. Not uncommon. ♂ and ♀ s. September 5 to 30. New to Massachusetts.
5. *L. disjunctus* Selys. Three specimens. ♂. September 5 to 18. New to Massachusetts.
6. *L. unguiculatus* Hagen. Very common. ♂ and ♀ s. August 15 to September 5. New to Middlesex County.
7. *L. forcipatus* Rambur. Rather uncommon. ♂ s. August 31 to September 5.
8. *L. vigilax* Hagen. Rather uncommon. ♂ and ♀ s. August 15 to September 5. New to Middlesex County.
9. *L. rectangularis* Say. Uncommon. ♂ and ♀ s. August 23 to September 15.

AGRIONINÆ.

10. *Argia violacea* (Hagen) Selys. Common. ♂ and ♀ s. May to September 10. New to Middlesex County.
11. *Enallagma laterale* Morse. Rare. ♂ s. May to July. Recorded also by Pierson.
12. *E. calverti* Morse. Recorded by Peirson.
13. *E. ebrium* (Hagen) Selys. Common. ♂ and ♀ s. August 1 to 15. New to Middlesex County.
14. *E. civile* (Hagen) Selys. Common. ♂ and ♀ s. May to September 5.
15. (?) *E. minusculum* Morse. One specimen. ♂.
16. *E. aspersum* (Hagen) Selys. One specimen. ♂. August to September 5.
17. *E. triviatum* Selys. Rather rare. ♂ s. August 1.
18. *E. geminatum* Kellicott. A few specimens. ♂ and ♀ s. August 1 to September 10. New to Massachusetts.
19. *E. signatum* (Hagen) Selys. Common. ♂ s. July to September 5. New to Middlesex County.
20. *E. pollutum* (Hagen) Selys. A few specimens. ♂. August 4. This species has never been recorded south of Maine, and is, therefore, new to Massachusetts.
21. *Ischnura verticalis* (Say) Selys. Uncommon. ♂ and ♀ s. August 23 to September 5.

ANISOPTERA.

ÆSHNIDÆ.

GOMPHINÆ.

22. *Gomphus exilis* Selys. Recorded by Peirson. ♀.
23. *G. borealis* Needham. One specimen. ♀. May 1915. New to Massachusetts.
24. *G. spiniceps* (Walsh) Selys. Recorded by Peirson.
25. *G. spicatus* Hagen. Common. ♂ and ♀ s. May.
26. *Dromogomphus spinosus* Selys. Rather common. ♂ s. July. New to Middlesex County.
27. *Anax junius* (Drury) Selys. Common. ♂ and ♀ s. August to September 19.
28. *Æschna clepsydra* Say. Two specimens. ♂. September 10 to September 30.
29. *Æschna constricta* Say. Common. ♂ and ♀ s. August to September. New to Middlesex County.
30. *A. umbrosa* Walker. Four specimens. ♀. May to October 17. New to New England.
31. *A. canadensis* Walker. One specimen. ♂. September 5. New to New England.
32. *Epiæschna heros* (Fabricius) Hagen. Recorded by Peirson. ♀. May. New to Middlesex County.
33. *Basiaschna janata* (Say) Selys. Not uncommon. ♂ and ♀ s. May. Recorded also by Peirson.
34. *Gomphaschna furcillata* (Say) Selys. Recorded by Peirson. ♀. May. New to Middlesex County.

LIBELLULIDÆ.

CORDULINÆ.

35. *Didymops transversa* (Say) Hagen. Common. ♂s. May.
 36. *Tetragoneuria cynosura* (Say) Selys. Recorded by Peirson. May.
 37. *Willkamsonia linteri* Hagen = *Cordulia linteri* Hagen Recorded by Peirson.
 May. New to New England.

LIBELLULINÆ.

38. *Libellula cyanea* Fabricius. Rather rare. ♂ and ♀s. August.
 39. *L. incesta* Hagen. Abundant. ♂ and ♀s. July to September 10.
 40. *L. exusta* Say. Rare. ♀. May to July. Recorded by Peirson.
 41. *L. luctuosa* Burm. Common. ♂ and ♀s. July to August 15. New to New
 England.
 42. *L. pulchella* Drury. Common. ♂s. August 18 to September 8.
 43. *Plathemis lydia* (Drury) Hagen. Common. ♂s. July to September 3.
 44. *Sympetrum rubicundulum* (Say) Kirby. Abundant. ♂ and ♀s. August 7
 to September 30.
 45. *S. semicinctum* (Say) Kirby. Rare. ♂ and ♀s. August 25 to September 18.
 New to Middlesex County.
 46. *S. vicinum* (Hagen) Kirby. Common. ♂ and ♀s. August 15 to November
 7.
 47. *S. costiferum* (Hagen) Kirby. Rare. ♂ and ♀s. September 5 to 18. New
 to Middlesex County.
 48. *Celithemis elisa* (Hagen) Walsh. Recorded from Concord in Dr. Calvert's
 New England list.
 49. *C. eponina* (Drury) Hagen. Common. ♂s. July to August.
 50. *Perithemis domitia tenera* (Say). Very common. ♂ and ♀s. July to August
 3.
 51. *Erythemis simplicicollis* (Say). Not uncommon. ♂ and ♀s. July to August
 23.
 52. *Pachydiplax longipennis* (Burm.) Brauer. One specimen. ♂. August.

SUMMARY.

Number of species formerly known from New England.....	140
Number added.....	4
Number of species formerly known from Massachusetts.....	101
Number added.....	9
Number of species formerly known from Middlesex County.....	44
Number added.....	20
Number now known from Middlesex County.....	64
Number here listed.....	52

HOOD—New *Thysanoptera*.