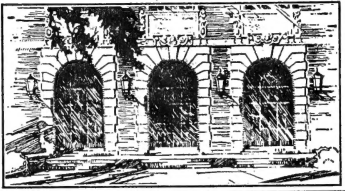




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FLOWERS AND INSECTS
LISTS OF VISITORS OF FOUR HUNDRED AND
FIFTY-THREE FLOWERS

By
CHARLES ROBERTSON

CARLINVILLE, ILLINOIS
1928

THE SCIENCE PRESS PRINTING COMPANY
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Eulogy

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PREFACE

BEGINNING September, 1887, and ending July, 1899, the papers mentioned in the bibliography record 7,817 visits to 278 flowers. The present work records 15,172 visits to 441 flowers, nearly twice as many, excluding visits to 12 wind flowers. Mueller's "Fertilisation of flowers" records 5,231 visits, and his "Alpenblumen" gives 8,491.

The observations were made within ten miles of Carlinville. The number of species of bees found on flowers at Carlinville is 296: compared with New York, 189; Connecticut, 231; New Jersey, 250. The list of visitors contains types of 232 new species of insects.

In identifying insects assistance has been afforded in Hymenoptera by W. H. Ashmead, Nathan Banks, J. C. Crawford, E. T. Cresson, R. A. Cushman, A. B. Gahan, W. J. Fox, L. O. Howard, Theo Pergande, and S. A. Rohwer; in Diptera by J. M. Aldrich, D. W. Coquillett, C. W. Johnson, J. R. Malloch, R. R. Parker, C. H. T. Townsend, and S. W. Williston; in Lepidoptera by G. H. French and C. A. Hart; in Coleoptera by C. A. Frost, C. A. Hart, Charles Liebeck, and Samuel Henshaw; in Hemiptera by C. A. Hart, H. M. Parshley, and P. R. Uhler; in Neuroptera by Nathan Banks and J. C. Crawford.

In 1887 names were rather readily obtained for Syrphidae, Bombyliidae, and Conopidae. In 1888 for 384 specimens of Diptera, estimated as 89 species, but certainly containing many more, only 17 specific determinations were received. It was hard to get names for Tachinidae until 1891-2 when Townsend supplied them. By Coquillett the Empididae were identified in 1894-5, and many Tachinidae and other Diptera in 1896-1901. For Sarcophagidae only a few names, some erroneous, were obtained until 1920 when they were determined by Parker.

In 1892-1901 many non-aculeate Hymenoptera were identified by Ashmead. Many manuscript names were supplied by him. Some of these have never been described, while others have been described under other names.

Particular difficulty was experienced in the case of the bees, by far the most important for the investigation. Of the bees recognized only about 39.8 per cent are mentioned in Cresson's catalogue of 1887, and of those only about 46.6 per cent were identified for both sexes. At present I know both sexes in 81.7 per cent of the local bees.

Generally, determinations of bees are unreliable except when both sexes of all of the species are known. When only one sex is known the other is probably mixed with that of another species. Formerly in *Agapostemon* four species had been distinguished in the females but the males were referred to another species, *A. tricolor*. There was little chance of separating another real species and this condition had the advantage of indicating five species instead of four. Sometimes the species are separated only in the males and the females ignored. Determinations of the females are twice as important as those of the males since they make twice as many flower visits.

On account of the impossibility of getting all of the bees identified it was necessary to describe the new species and match the sexes, thus making a digression which interrupted the study and involved an intrusion into a field which there was no inclination to cultivate.

Of all bees the bumblebees are the easiest to collect and identify. Eight species occur at Carlinville. Two species, *Bombus americanorum* and *Bombias auricomus*, had the females mixed under the name of *Bombus pennsylvanicus* and were referred to the male of *Bombias auricomus*, while the male of *Bombus americanorum* was referred to another genus as *Apathus? elatus*. The female of another species was identified for me as *Bombus ridingsii*. The worker was mentioned in 13, 579, 1891, and the male in 4, 65, 1891. But *Bombus ridingsii* turned out to be a sex name of *Bombus bimaculatus*, the prior name of the male of the same species.

From my experience I think that a specialist is competent to make determinations, or compare types, only at the time when he is making a careful study of a particular group. In 32 cases I received two different specific names for the same insect.

Your species monger describes the obvious and easy cases, the males and females as distinct species, and passes on the difficulties to some one else. North America is a large region and entomology, or even an order of insects, is a large subject. A specialist's reliability bears an inverse relation to the size of the region and the extent of the subject in which he affects authority. Students of bees describe species from all over North America, and even farther, but any one of them, and all of them together, can not identify both sexes of the bees of any locality.

All of the observations given here were made for the purpose of ascertaining the different kinds of insect visitors. Collectors' notes are worthless as data of anthecology because the collector is looking out for particular kinds of insects and not for all of the kinds which

occur on the flowers. They are worthless as data of insect habits because the collector is certain to select the flowers which are most favorable for observation and which are most attractive to the kinds of insects he is after. Collectors' notes almost invariably fail to indicate what the insects are doing on the flowers and whether they affect pollination or not.

The following persons made additions to the local lists of the plants mentioned—Prof. I. H. Benham: *Blephilia hirsuta*, *Eupatorium perfoliatum*, *Teucrium canadense*; George T. Palmer: *Erigeron ramosus*, *Stachys palustris*; Robertson Palmer: *Ellisia nyctelaea*, *Hypoxis hirsuta*, *Polemonium reptans*, *Sambucus canadensis*, *Scutellaria parvula*; H. B. Parks: *Achillea millefolium*, *Apocynum cannabinum*, *Blephilia ciliata*, *Cassia chamaecrista*, *Ceanothus americanus*, *Cicuta maculata*, *Cucurbita pepo*, *Eryngium yuccifolium*, *Eulophus americanus*, *Lepachys pinnata*, *Monarda fistulosa*, *Pastinaca sativa*, *Polygala sanguinea*, *Prunus americana*, *P. serotina*, *Pycnanthemum flexuosum*, *P. pilosum*, *Rhus copallina*, *R. glabra*, *Rosa humilis*, *R. setigera*, *Salix nigra*, *Sambucus canadensis*, *Stenanthium angustifolium*, *Veronica virginica*.

In some cases the lists were based on the older nomenclature, so that I did not care to rewrite and rearrange them. In the preliminary list some of the later specific names are given in parenthesis. After changing *Danais archippus* to *Anosia plexippus* it is a little tiresome to change it back to former name, and then to *Danaus*. Anyhow, biological nomenclature is synonymical, not binomial. The older names usually have more important relation to anthecological literature. Authors will have to use them whether they like them or not. Often the synonymy is a subject of controversy. Of 455 plants mentioned here, about 70 have their names changed in Gray's Manual.

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Flowers and Insects

SIGNS, ABBREVIATIONS, ETC.

ab = abundant ; e = collecting pollen ; cf = collecting and feeding on pollen ; esp = collecting stray pollen ; cult = cultivated ; expl = exploratory visit ; f = feeding on pollen ; fq = frequent ; fsp = feeding on stray pollen ; gn = gnawing ; in cop = in copula ; int = introduced, not indigenous ; lp = labial palps ; Ma = non-social long-tongued bee flower ; Mas = social long-tongued bee flower ; Mi = non-social short-tongued bee flower ; Mis = social short-tongued bee flower ; mp = maxillary palps ; n = non-pollinating ; O = ornithophilous ; ol = oligolege ; Pol = polytropic ; pred = predaceous ; R = red and all dark colors ; S = sphingophilous ; se = sucking nectar and collecting pollen ; sf = sucking nectar and feeding on pollen ; W = white ; Y = yellow, greenish to orange ; ♂ = male ; ♀ = female ; ♀ = worker.

When no other indications are used after a name, the insect is counted as sucking nectar legitimately and effecting pollination. Dates connected by a dash after "visitors observed" do not indicate the number of days, but only the period within which the observations were made. Signs in parentheses after a group name mean that the signs belong to each one of the insects mentioned in the group. For example, "*Halict.* (♀, e)" means that all of the following Halictidae are females and all collecting pollen.

After family names the ending "idae" is not repeated, as *Halict.* for Halictidae. When only one species of a genus was observed, the specific name is not repeated in the lists. Thus *Apis* = *Apis mellifera* ♀. This avoids repeating *mellifera* 216 times. Four hundred and forty-four genera have only one species each, which it is not necessary to repeat.

The plant names used are those of the 7th edition of Gray's *Manual of Botany*, 1908.

Numbers in parentheses, for example (12: 459), refer to the titles and pages in the bibliography, or to species and individuals.

GENERAL SYNONYMICAL LIST

The following is a list of all the insects taken on flowers. It contains authors' names which are given here once for all and are not repeated in the special lists.

Names which occur often enough to justify it are abbreviated as follows:—Al. = Aldrich, Ash. = Ashmead, B. B. = Brauer and Bergenstamm, B. L. = Boisduval and Leconte, Br. = Brulle, Bs. =

Boisduval, Bv. = Beauvois, Cc. = Cockerell, Cm. = Cramer, Cq. = Coquillett, Cr. = Cresson, Dh. = Dahlbom, Dg. = De Geer, Dr. = Drury, Ds. = Desvoidy, Ed. = Edwards, F. = Fabricius, Fl. = Fallen, Fr. = Forster, Gn. = Guenee, Gr. = Germar, Grv. = Gravenhorst, Hb. = Hübner, Hr. = Herbst, H. S. = Herrich Schaeffer, L. = Linnaeus, Lc. = Le Conte, Lp. = Lepeletier, Lw. = Loew, Mc. = Macquart, Mg. = Meigen, Ml. = Melsheimer, Nr. = Norton, Nw. = Newman, Ol. = Olivier, O. S. = Osten Sacken, Pc. = Packard, Pr. = Provancher, Pt. = Patten, Rb. = Robertson, Rl. = Riley, Sc. = Scudder, Sm. = Smith, Ss. = Saussure, Tn. = Townsend, Wd. = Wiedemann, Wk. = Walker, Wl. = Williston.

BIRDS

Trochilidae: *Trochilus colubris* L.

LONG-TONGUED BEES. (146)

Anthophoridae: *Amegilla walshii* Cr., *Anthemoessa abrupta* Say, *Anthophora ursina* Cr., *Clisodon terminalis* Cr., *Emphoropsis floridana* Sm.; *Apidae*: *Apis mellifera* L.; *Bombidae*: *Bombias auricomus* Rb., *type*, *scutellaris* Cr., *separatus* Cr., *Bombus americanorum* F., *consimilis* Cr. (*vagans* Sm.), *pennsylvanicus* Dg., *ridingsii* Cr., (*bimaculatus* Cr.), *impatiens* Harris, *Psithyrus laboriosus* F., *variabilis* Cr.; *Ceratinidae* (females mixed); *Ceratina* *dupla* Say, *Zadontomerus calcaratus* Rb., *type*; *Emphoridae*: *Emphor bombiformis* Cr., *Melitoma taurea* Say; *Epeolidae*: *Argyroselenis minimus* Rb., *type*, *Epeolus autumnalis* Rb., *type*, *bifasciatus* Cr., *coreopsis* Rb. MS, *interruptus* Rb., *type*, *lectoides* Rb., *type*, *pusillus* Cr., *Triepeolus concavus* Cr., *concolor* Rb., *type*, *cressonii* Rb., *type*, *donatus* Sm., *helianthi* Rb., *type*, *lunatus* Say, *micropygius* Rb., *type*, *nevadensis* Cr., *pectoralis* Rb., *type*, *remigatus* F., *simplex* Rb., *type*; *Euceridae*: *Anthedon compta* Cr., *Cemolobus ipomoeae* Rb., *type*, *Epimelissodes atripes* Cr., *illinoensis* Rb., *type*, *obliqua* Say, *Florilegus condignus* Cr., *Melissodes agilis* Cr., *asteris* Rb., *type*, *autumnalis* Rb., *type*, *bimaculata* Lp., *boltoniae* Rb., *type*, *enici* Rb., *type*, *coloradensis* Cr., *comptoides* Rb., *type*, *coreopsis* Rb., *type*, *nivea* Rb., *type*, *pallida* Rb., *type*, *petalostemonis* Rb., *type*, *simillima* Rb., *type*, *trinodis* Rb., *type*, *variabilis* Rb., *type*, *vernoniana* Rb., *type*, *vernoniae* Rb., *type*, *Peponapis pruinosa* Say, *Tetralonia belfragei* Cr., *dilecta* Cr. (*speciosa*?), *dubitata* Cr., *illinoensis* Rb., *type*, *robertsoni* Cc., *type*, *rosae* Rb., *type*, *Xenoglossa strenua* Cr., *Xenoglossodes albata* Cr.; *Megachilidae*: *Osmiinae*, *Osmiini*: *Aleidamea simplex* Cr., *truncata* Cr., *Ashmeadiella buceonis* Say, *Centrosmia bucephala* Cr., *Ceratosmia lignaria* Say, *Diceratosmia conjuncta* Cr., *Gnathosmia*

georgica Cr., Hoplitis cylindricus Cr., Leucosmia albiventris Cr., Monilosmia canadensis Cr., Osmia atriventris Cr., collinsiae Rb., *type*, cordata Rb., *type*, distincta Cr., illinoensis Rb., *type*, pumila Cr.; Trypetini; Neotrypetes barbatus Rb., *type*, productus Rb., *type* (♀ mixed with that of the next), truncatus Rb. MS, Prochelostoma philadelphia Rb., *type*; Megachilinae, *Megachilini*: Anthemois eentuncularis L., Chelostemoides rufimanus Rb., *type*, Cyphopyga montivaga Cr., Megachile addenda Cr., brevis Say, generosa Cr., mendica Cr., petulans Cr., 6-dentata Rb., *type*, strophostylis Rb., *type*, Oligotropus campanulae Rb., *type*, Sarogaster georgica Cr., Sayapis pollicaris Say, pugnata Say, sayi Cr., Xanthosarus latimanus Say; *Coelioxyni*: Coelioxys alternata Say, germana Cr., modesta Sm., 8-dentata Say, rufitarsis Sm., sayi Rb., *type*; *Melectidae*: Melecta interrupta Cr., Bombomelecta thoracica Cr.; *Nomadidae*: Centrias americanus Kirby, erigerontis Rb., *type*, Cephen texanus Cr., Gnathias cuneatus Rb., *type*, ovatus Rb., *type*, xanthoparius Rb. MS, Heminomada obliterata Cr., Holonomada affabilis Cr., placida Cr., superba Cr., vineta Say, Nomada cressonii Rb., *type*, denticulata Rb., *type*, illinoensis Rb., *type*, parva Rb., *type*, salicis Rb., *type*, sayi Rb., *type*, simplex Rb., *type*, vicina Cr., Phor integer Rb., *type*, Xanthidium dentariae Rb., *type*, luteoloides Rb., *type*, luteolum Ol.; *Pasitidae*: Holecopasites heliopsis Rb., *type*, illinoensis Rb., *type*; *Stelididae*: Anthidiinae, Anthidiini: Anthidium cognatum Cr., psoraleae Rb., *type*, Dianthidium boreale Rb. *type*; Stelidini: Chelynia foederalis Sm., Microstelis lateralis Cr., Stelidium trypetinum Rb., *type*; *Xylocopidae*: Xylocopa virginica Dr.

SHORT-TONGUED BEES. (151)

Andrenidae: Andrena arabis Rb., *type*, carlini Ce., *type*, corni Rb., *type*, dunningii Ce., erythrogastra Ash., erythronii Rb., *type*, geranii Rb., *type*, illinoensis Rb., *type*, macoupinensis Rb., *type*, mandibularis Rb., *type*, nasonii Rb., *type*, nigrae Rb., *type*, nothocordi Rb., *type*, nubecula Sm., paniculatae Rb., MS, platyparia Rb. (integra Sm.), pruni Rb., *type*, salicacea Rb., *type*, salicis Rb., *type*, salictaria Rb., *type*, sayi Rb., *type*, tridens Rb., *type*, Iomelissa violae Rb., *type*, Opandrena cressonii Rb., *type*, dubia Rb., *type*, miserabilis Cr., personata Rb., *type*, serotina Rb., *type*, ziziae Rb., *type*, Parandrena andrenoides Cr., Pterandrena aliciae Rb., *type*, asteris Rb., *type*, helianthi Rb., *type*, krigiana Rb., *type*, lauracea Rb., *type*, pulchella Rb., *type*, rudbeckiae Rb., *type*, solidaginis Rb., *type*, Ptilandrena erigeniae Rb., *type*, g. maculati Rb., *type*, polemonii Rb., *type*, Trachandrena claytoniae Rb., *type*, crataegi Rb., *type*, forbesii Rb., *type*, heraclei Rb., *type*, hippotes Rb., *type*,

mariae Rb., *type*, nuda Rb., *type*, obscura Rb., *type*, quintilis Rb., *type*, rugosa Rb., *type*, spiraeana Rb., *type*; *Colletidae*: *Colletes* aestivalis Pt., albescens Cr., americanus Cr., armatus Pt., brevicornis Rb., *type*, compactus Cr., eulophi Rb., *type*, inaequalis Say, latitarsis Rb., *type*, nudus Rb., *type*, productus Rb., *type*, robertsonii Dalla Torre, *type*, similis Rb., *type*, speciosus Rb., *type*, willistonii Rb., *type*; *Dufoureyidae*: *Halictoides* marginatus Cr.; *Halictidae*: *Agapostemon* radiatus Say, splendens Lp., texanus Cr., viridulus F. (*virescens* F.), *Augochlora* fervida Sm., viridula Sm., *Chloralictus* albipennis Rb., *type*, caeruleus Rb., *type*, coreopsis Rb., *type*, cressonii Rb., *type*, foveolatus Rb., *type*, illinoensis Rb., *type*, nymphaeorum Rb., *type*, obscurus Rb., *type*, pilosus Sm., pruinosis Rb., *type*, smilacinae Rb., *type*, sparsus Rb., *type*, tegularis Rb., *type*, testaceus Rb., *type*, versatus Rb., *type*, zephyrus Sm., *Curtisapis* coriacea Sm., forbesii Rb., *type*, fuscipennis Sm., *Dialictus* anomalus Rb., *type*, *Evylaeus* arcuatus Rb., *type*, foxii Rb., *type*, nelumbonis Rb., *type*, pectinatus Rb., *type*, pectoralis Sm., 4-maculatus Rb., *type*, truncatus Rb., *type*, *Halictus* lerouxii Lp., parallelus Say, *Odontalictus* ligatus Say, *Oxystoglossa* confusa Rb., *type*, pura Say, similis Rb., *type*, *Paralictus* cephalicus Rb., *type*, platyparius Rb., *type*, simplex Rb., *type*, *Seladonia* fasciata Nylander; *Sphecodini*: *Dialonia* antennariae Rb., *type*, *Drepanium* falciferum Pt., *Machaeris* illinoensis Rb., *type*, stygia Rb., *type*, *Proteraner* ranunculi Rb., *type*, *Sphecodes* arvensis Pt., clematidis Rb., *type*, heraclei Rb., *type*, minor Rb., *type*, *Sphecodium* cressonii Rb., *type*, pimpinellae Rb., *type*, pycnanthemi Rb., *type*, smilacinae Rb., *type*; *Macropididae*: *Macropis* steironematis Rb., *type*; *Nomiidae*: *Paranomia* nortonii Cr.; *Panurgidae*: *Anthemurgas* passiflorae Rb., *type*, *Calliopsis* andreniformis Sm., coloradensis Cr., *Heterosarus* parvus Rb., *type*, *Perdita* 8-maculata Say, *Perditella* boltoniae Rb., *type*, *Pseudopanurgus* albitarsis Cr., asteris Rb., *type*, compositarum Rb., *type*, labrosiformis Rb., *type*, labrosus Rb., *type*, rudbeckiae Rb., *type*, rugosus Rb., *type*, solidaginis Rb., *type*, *Verbenapis* verbenae Cc., *Zaperdita* maura Cc.; *Prosopididae*: *Prosopis* crataegi Rb. MS, eulophi Rb., *type*, illinoensis Rb., *type*, nelumbonis Rb., *type*, pygmaea Cr., saniculae Rb., *type*, sayi Rb., *type*, thaspis Rb., *type*, ziziae Rb., *type*.

OTHER HYMENOPTERA. (367)

Bembicidae: *Bembix* nubillipennis Cr., spinolae Lp., *Bicyrtus* 4-fasciata Say, ventralis Say, *Megastizus* brevipennis Walsh, *Microbembex* monodonta Say, *Sphecius* speciosus Dr., *Stictia* carolina F., *Stictiella* pictifrons Sm., *Stizus* uncinetus Say; *Bethylidae*:

Goniozus cellularis Say; *Braconidae* (including *Alysiidae* and *Vipionidae*): *Aenignostomus longipalpus* Cr., *Agathis areolata* Ash., *type*, *vulgaris* Cr., *Apanteles crassicornis* Pr., *illinoensis* Ash. MS, *terminalis* Gahan, *Bassus sanctus* Say, *Bracon ashmeadi* Morrison, *type*, *longicauda* Pr., *simplex* Cr., *trifolii* Ash. (*pygmaeus* Pr.), *vernoniae* Ash. (*mellitor* Say), *Cardiochiles tibiator* Say, *Chelonus sericeus* Say, *Daenusa flavicincta* Ash., *Earinus limitaris* Say, *Euphorus mellipes* Cr., *Habrobracon gelechiae* Ash., *Iphiaulax rugator* Say, *Macrodyetium apicatus* Pr., *Microbracon tortricicola* Ash. (*variabilis* Pr.), *Microdus simillimus* Cr., *Microgaster gelechiae* Rl., *Microplitis ceratoniae* Rl., *croceipes* Cr., *gortynae* Rl., *Monogonogastra fuscipennis* Ash. MS, *Opius fuscipennis* Gahan, *ruficeps* Pr. (*provancheri* Dalla Torre), *Orgilus rileyi* Ash. (*divisus* Cr.), *Toxoneuron abdominale* Cr., *viator* Say, *Urosigalphus femoratus* Ash., *Vipio robertsonii* Ash. MS; *Chalcididae* (including *Elasmidae*, *Encyrtidae*, *Eulophidae*, *Eurytomidae*, *Leucospidae*, *Perilampidae*, *Pteromalidae*): *Bruchophagus funebris* Howard, *Chaleis flavipes* F. (*ovata* Say), *Chrysocharis oscinidis* Ash., *Elasmus nigripes* Howard, *Eurytoma diastrophii* Walsh, *studiosa* Say, *Eutelus flavipes* Wk., *Eutrichosoma mirabilis* Ash., *Haltichella ornata* Wk., *xanticles* Wk., *Leucospis affinis* Say, *Pachyneuron mesograptae* Ash., *Perilampus cyaneus* Br., *fulvicornis* Ash., *hyalinus* Say, *platygaster* Say, *robertsoni* Crawford, *type*, *triangularis* Say, *Smiera debilis* Say, *torvina* Cr., *Syntomopus americanus* Ash.; *Crysididae*: *Chrysis intricata* Br., *texana* Gribodo, *Gonochrysis perpulehra* Cr., *Hedychridium dimidiatum* Say, *Hydychrum parvum* Aaron, *violaceum* Br., *wiltii* Cr., *Holochrysis hilaris* Dh., *verticalis* Pt., *Holopyga ventralis* Say, *Monochrysis parvula* F., *Notozus hyalinus* Aaron, *Tetrachrysis caeruleans* F., *montana* Aaron, *nitidula* F., *nortonii* Aaron, *venusta* Cr.; *Crabronidae*: *Anacrabro ocellatus* Pe., *Blepharipus harringtonii* Fox, *Clytochrysus obscurus* Sm., *Ectemnius atriceps* Cr., *Entomognathus texanus* Cr., *Hypocrabro 10-maculatus* Say, *Lindenius errans* Fox, *robertsoni* Rohwer, *type*, *Lophocrabro singularis* Sm., *Protothyreopus bigeminus* Pt., *ruffifemur* Pe., *Pseudoerabro chrysargirus* Lp., *Rhopalum pedicellatum* Pe., *scutellatum* Say, *Solenius interruptus* Lp., *Synothyreopus tumidus* Pe., *Xestocrabro 6-maculatus* Say, *texanus* Cr., *trifasciatus* Say; *Eumenidae*: *Ancistrocerus campestris* Ss., *capra* Ss., *catskillensis* Ss., *tigris* Ss., *unifasciatus* Ss., *Eumenes belfragei* Cr., *fraternus* Say, *Leionotus anormis* Say, *arvensis* Ss., *elypeatus* Rb., *type*, *dorsalis* F., *foraminatus* Ss., *fulvipes* Ss., *fundatus* Cr., *histrionalis* Rb., *type*, *illinoensis* Rb., *type*, *leucomelas* Ss., *megaera* Lp., *molestus* Ss., *perennis* Ss., *4-sectus* Say, *serophulariae* Rb. MS,

vagus Ss., ziziae Rb. MS, Monobia 4-dens L., Pterochilus 5-fasciatus Say, Symmorphus debilis Ss., walshianus Ss., Zendaleia (MS) alcolhuus Ss., zendaloides Rb., *type*, Zethus spinipes Say; *Evanidae*: Foenus incertus Cr., tarsatorius Say, Hyptia reticulata Say; *Figitidae*: Aspicera albihirta Ash., Cothonaspis stigmata Say, Eucoila mellipes Say, Eucoilidia canadensis Ash., Figites impatiens Say, 5-lineata Say, Psilodora erythropus Ash., impatiens Say, Triphoptrasema ashmeadi Rohwer and Fagan, Xyalosema armata Say; *Formicidae*: Camponotus castaneus Latr., hereculanus L., Formica fusca L., rufibarbis F., schaufussi Mayr, Lasius niger L., Tapinoma sessile Say; *Myrmicidae*: Cremastogaster lineolata Say; *Ichneumonidae*: Agrothereutes limatus Cr., mundus Pr., Angitia obscura Cr., Bathycetes scutellaris Cr., Ceratosoma fasciata Cr. (ornata Say), Colpognathus helvus Cr., Cremastus epagoges Cushman, retiniae Cr., Cryptus exulans Cr., persimilis Cr., rufoannulatus Pr., Diplazon sycophanta Walsh, Eiphosoma texana Cr., Exetastes obscurus Cr., suaveolens Walsh, Exyston abdominalis Cr., Gambrus albonotatus Pr., apicatus Pr., Glypta rufiscutellaris Walsh, simplicipes Cr., Hemiteles gracilariae Ash., Ichneumon flavizonatus Cr., funestus Cr. (laetus Br.), jucundus Br., longulus Cr., succinetus Br., Idiolespa analis Grv. (limatus Cr.), Lampronota americana Cr., coxalis Ash. MS, varia Cr., Limneria eurycereontis Ash., fura Cr., Lissonota tricincta Ash. MS, Metopius polycinctorius Say, terminalis Ash. (seminiger Cr.), Ophion bifoveolatum Br., Pharsalia virginiana Cr., Phygadeuon vulgaris Cr., Pimpla annulipes Br., marginata Pr., notanda Cr., novita Cr., Polyblastus citripes Ash. MS, Polysphincta slossonae Davis, Porizon albipennis Cr., conotracheli Rl., Proclitus mellipes Pr., Trogus vulpinus Grv., Tryphon affinis Cr.; *Larridae*: Astatus bicolor Say, unicolor Say, Larra analis F., Larropsis distincta Sm., Lyroda subita Say, Notogonidea argentata Bv., Tachysphex acutus Pt., belfragei Cr., mundus Fox, tarsatus Say, terminatus Sm., Tachytes aurulentus F., distinctus Sm., elongatus Cr., harpax Pt., maestus Mikel, mandibularis Pt., mergus Fox, obscurus Cr., pepticus Say, sericatus Cr.; *Mutillidae* (♂): Mutilla hexagona Say, sayi Blake, scrupea Say, Pseudomethoca canadensis Blake, Sphaerophthalma macra Cr.; *Myrmosidae*: Myrmosa parvula Fox, *type*, unicolor Say; *Nyssonidae*: Alyson trianguliferus Pc., Hoplisoides nebulosus Pc., Hoplisus atricornis Pc., simillimus Sm., Nysson plagiatus Cr., rufiventris Cr., Zanysson aurinotus Say, plesia Rohwer, Pseudoplisus divisus Sm., phaleratus Say, Silaon inerme Cr.; *Oxybelidae*: Notoglossa americana Rb., *type*, cressonii Rb., *type*, emarginata Say, frontalis Rb., *type*, inornata Rb., *type*, Oxybelus laetus Say,

niger Rb., *type*, packardii Rb., *type*, 4-notatus Say; *Pemphredonidae*: Cemonus inornatus Say, Mimesa cressonii Pe., Psen tibialis Cr.; *Philanthidae* (including *Cereeridae*): Cereeris astarte Banks, bicornuta Guerin, clypeata Dh., compacta Cr., compar Cr., echo Mickel, finitima Cr., fulvipes Cr. (fulvipediculata Schlet.), fumipennis Say, insolita Cr., kennicottii Cr., prominens Banks, raii Rohwer (frontata Say?), robertsonii Fox, *cotype*, rufinoda Cr., Eucereeris zonatus Say, Philanthus politus Say, punctatus Say, ventilabris F.; *Pompilidae*: Ageniella accepta Cr., longula Cr., petiolata Cr., Anoplius illinoensis Rb., *type*, virginiensis Cr., Arachnoproctonus ferrugineus Say, Batizonus algidus Sm., Ceropales bipunctata Say, elegans Cr., fraterna Sm., fulvipes Cr., robinsonii Cr., Cryptocheilus agenioides Fox, conicus Say, fulgifrons Cr., Episyrus biguttatus F., Lophopompilus atrox Dh., philadelphicus Lp., Planiceps feralis Cr., niger Cr., Poecilopompilus interruptus Say, navus Cr., Pompiloides americanus Bv., divisus Cr., marginatus Say, subviolaceus Cr., Priocnemis arcuatus Banks, Priocnemoides fulvicornis Cr., terminatus Say, unifasciatus Say, Psammochares pretiosa Banks, relativus Fox, *cotype*, scelestus Cr., tenebrosus Cr., Pseudagenia mellipes Say, Sophropompilus ingenuus Cr.; *Sapygidae*: Sapyga centrata Say; *Scelionidae*: Proscantha illinoensis Ash. MS, Teleas lineaticeps Ash.; *Scoliidae*: Campsomeris confluenta Say, Elis interrupta Say, obscura F., thoracica Fox, *type*, 5-cincta F., Scolia bicincta F., nobilitata F.; *Sphecidae*: Ammobia ichneumonea L., nuda Fernald, pennsylvanica L., Chalybion caeruleum L., Chlorion caeruleum Dr., Isodontia apicalis Sm., macrocephala Fox, Palmodes dimidiata Dg., Priononyx atrata Lp., thomae F., Sceliphron cementarius Dr., Sphex gracilis Lp., nigricans Dh., pictipennis Walsh, procerus Klug, vulgaris Cr.; *Tenthredinidae* (including *Xyelidae*): Dolerus aprilis Nr., arvensis Say (unicolor Bv.), bicolor Bv., sericeus Say, Hylotoma humeralis Bv., macleayi Leach, Macrophyta epinota Say, pleuricineta Nr. (nebraskensis Rohwer), Macroxyela ferruginea Say, Monophadnus medius Nr., Nematus luteotergum Nr., vertebratus Say, Opisthoneura albidovariata Nr., Pseudosiobla excavata Nr.; *Thynnidae*: Methoea stygia Say; *Tiphidae*: Tiphia clypeata Rb., *type*, illinoensis Rb., *type*, inornata Say, punctata Rb., *type*, robertsoni Malloch, *type*, transversa Say, vulgaris Rb., *type*; *Trypoxylidae*: Trypoxylon clavatum Say, frigidum Sm., tridentatum Pe.; *Vespidae*: Polistes annularis L., pallipes Lp., rubiginosus Lp., variatus Cr., Vespa cuneata F., germanica F., maculata L., vidua Ss.

DIPTERA. (446)

Agromyzidae: *Agromyza aeneoventris* Fl., *latipes* Mg., *Aulacigaster rufitarsis* Mc., *Eusiphona mira* Cq., *Leucopis nigricornis* Egger (*americana* Malloch), *Lobioptera indecora* Lw., *Milichiella lucidula* Beck, *Phytomyza palpalis* Cq. MS.; *Anthomyidae*: *Anthomyia pluvialis* L., *radicum* L., *Anthomyiella pratineola* Panzer, *Calythea albicincta* Fl., *Coenosia antennalis* Stein, *antica* Wk. (*leucoprocta* Wd.), *fuscopunctata* Mc. (*ovata* Stein), *lacteipennis* Mg., *sexnotata* Mg., *Hammomyia paludis* Johansen, *Homalomyia canicularis* L., *prostrata* Rossi (*incisurata* Zett.), *Hydrophoria ambigua* Fl., *Hydrotaea houghi* Malloch, *Hyetodosia rufitibia* Stein, *Hylemyia dilatata* Malloch, *inornata* Stein, *juvenalis* Stein, *laevis* Stein, *plumosa* Cq., *type*, *Limnophora narona* Wk., *Lispa albitarsis* Stein, *consanguinea* Lw., *uliginosa* Fl., *Mydaea diruta* Stein, *fusca* Stein, *socialis* Stein, *Ophyra leucostoma* Wd., *Phorbia acra* Wk., *cinerella* F., *platura* Mg., *Proboscimyia siphonina* Bigot; *Bibionidae*: *Bibio albipennis* Say, *femoratus* Wd., *pallipes* Say, *Dilophus obesulus* Lw., *serotinus* Lw., *Scatopse notata* L., *pulicaria* Lw., *Bombyliidae*: *Aldrichia ehrmanii* Cq., *Anthrax alternata* Say, *fulvohirta* Wd., *haleyon* Say, *hypomelas* Mc., *palliata* Lw., *parvicornis* Lw., *sinuosa* Wd., *Argyramoeba albofasciata* Mc., *oedipus* F., *Bombylius atriceps* Lw., *azaleae* Shannon, *major* L., *pulchellus* Lw., *Exoprosopa decora* Lw., *emarginata* Mc., *fasciata* Mc., *fascipennis* Say, *Geron calvus* Lw., *rufipes* Mc., *Lepidophora lepidocera* Wd., *Oncodocera leucoprocta* Wd., *Phthiria aldrichi* Johnson, *cincta* Cq. MS, *sulphurea* Lw., *Sparnopolius fulvus* Wd., *Systoechus vulgaris* Lw., *Systropus macer* Lw., *Thlipsogaster ater* Cq., *Toxophora amphitea* Wk., *Borboridae*: *Borborus equinus* Fl.; *Chironomidae*: *Ceratopogon fuscus* Cq., *websteri* Cq., *Conopidae*: *Conops brachyrrhynchus* Mc., *sylvosus* Wl., *xanthopareus* Wl., *Dalmannia nigriceps* Lw., *Myopa pilosa* Wl., *vesiculosa* Say, *Oncomyia loraria* Lw., *Physocephala texana* Wl., *tibialis* Say, *Robertsonomyia palpalis* Rb., *type*, *Stylogaster biannulata* Say, *neglecta* Wl., *Zodion fulvifrons* Say, *nanellum* Lw., *obliquefasciatum* Mc.; *Culicidae*: *Aedes vexans* Mg., *Culex impiger* Wk. (*nigripes* Zett.), *stimulans* Wk. (*cantans* Mg.); *Dexiidae*: *Myocera cremides* Wk., *Ptilodexia abdominalis* Ds., *Scotiptera parvicornis* Tn. MS; *Drosophilidae*: *Drosophila varia* Wk.; *Empididae*: *Brachystoma robertsonii* Cq., *type*, *Empis avida* Cq., *type*, *compta* Cq., *distans* Lw., *humilis* Cq., *type*, *levicula* Cq., *type*, *loripedis* Cq., *type*, *nuda* Lw., *otiosa* Cq., *type*, *Pachymeria pudica* Lw., *Parempis* (MS) *clausa* Cq., *Rhamphomyia angustipennis* Lw., *exigua* Lw., *fumosa*

Lw., *gilvipilosa* Cq., *type*, *irregularis* Lw., *limbata* Lw., *mutabilis* Lw., *piligeronis* Cq., *type*, *priapululus* Lw., *rava* Lw., *ravida* Cq., *type*, *sordida* Lw., *tersa* Cq., *Tachydromia pusilla* Lw., *Ephydriidae*; *Notiphila unicolor* Lw., *Ochthera lauta* Wheeler, pred.; *Heteroneuridae*: *Clusia lateralis* Wk.; *Leptidae*: *Hilarimorpha mikii* Wl., *type*; *Lonchacidae*: *Lonchaea parvicornis* Mg., *aberrans* Malloch, *cotype*; *Mididae*: *Midas clavatus* Dr., *tibialis* Wd.; *Muscidae*: *Compsomyia macellaria* F., *Graphomyia americana* Ds. (*maculata* Scopoli), *Lucilia caesar* L., *sericata* Mg., *sylvarum* Mg., *Morellia micans* Me., *Musea domestica* L., *Museina assimilis* Fl., *Myospila meditabunda* F., *Phormia regina* Mg., *terraenovae* Ds., *Pollenia rudis* F., *Protocalliphora splendida* Me., *Pseudopyrellia cornicina* F., *Stomoxys calcitrans* L.; *Mycetophilidae*: *Dynatosoma thoracica* Cq., *type*, *Eugnoriste occidentalis* Cq., *Sciara atrata* Say, *inconstans* Fitch, *vulgaris* Fitch; *Nemestrinidae*: *Rhynechocephalus sackeni* Wl.; *Ortalidae*: *Camptoneura pieta* Me., *Chaetopsis aenea* Wd., *Euxesta notata* Wd., *Rivellia pallida* Lw., *4-fasciata* Me., *viridulans* Ds., *Seoptera colon* Lw.; *Oscinidae*: *Chlorops approximatonervis* Zett., *assimilis* Me., *mellea* Lw., *proxima* Say, *pulverea* Cq., *versicolor* Lw., *Elachiptera costata* Lw., *flavida* Wl., *Hippelates flavipes* Lw., *plebejus* Lw., *pusio* Lw., *Meromyza americana* Fitch, *Oscinis coxendix* Fitch, *soror* Me., *trigramma* Lw., *Siphonella cinerea* Lw., *inquilina* Cq., *oseinina* Fl.; *Phoridae*: *Phora fungicola* Cq., *Trineura aterrima* F.; *Pipunculidae*: *Chalarus spurius* Fl.; *Psilidae*: *Chyliza apicalis* Lw.; *Sapromyzidae*: *Sapromyza longipennis* F., *vulgaris* Fitch; *Sarcophagidae* (*Calliphora* and *Cynomyia* belong to *Muscidae*): *Boettcheria cimbicis* Tn., *Calliphora erythrocephala* Mg., *vomitaria* L., *Cynomyia cadaverina* Ds., *Helicobia helieis* Tn., *4-setosa* Cq., *Metoposarcophaga pachyprocta* Parker, *Sarcophaga alcedo* Al., *aldrichi* Parker, *assidua* Wk., *bullata* Parker, *cimbicis* (*pallinervis* Thompson), *dux sarraecenioides* Al., *haemorrhoidalis* Fl., *hunteri* Hough, *impar* Al., *marginata* Al., *sinuata* Mg., *utilis* Al.; *Scatophagidae*: *Cordylura munda* Lw., *Scatophaga fureata* Say; *Scenopinidae*: *Scenopinus nubillipes* Say; *Sciomyzidae*: *Sciomyza humilis* Lw., *Tetanocera pictipes* Lw. (*umbrarum* L.); *Sepsidae*: *Nemopoda minuta* Wd., *Piophila casei* L., *Prochyliza xanthostoma* Wk., *Sepsis violacea* Mg., *Themira putris* Lw.; *Simuliidae*: *Simulium pecuarum* Rl.; *Stratiomyidae*: *Allognosta fuscitarsis* Say, *obscuriventris* Lw., *Microchrysa polita* L., *Nemotelus glaber* Lw., *Odontomyia cineta* Ol., *nigrirostris* Lw., *pubescens* Day, *Sargus viridis* Say, *Stratiomyia apicula* Lw., *dis-calis* Lw., *meigenii* Wd., *quaternaria* Lw., *unilimbata* Lw.;

Syrphidae: *Allograpta obliqua* Say, *Baccha aurinota* Wk. (*fascipennis* Wd.), *clavata* F., *fuscipennis* Say, *tarchetius* Wk., *Brachyopa vacua* O. S., *Brachypalpus frontosus* Lw. (*oarus* Wk.), *rileyi* Wl. (*metallifera* Bigot), *Ceria abbreviata* Lw., *Chalcomyia aerea* Lw., *Chilosia capillata* Lw. (*caltha* Shannon), *cyanescens* Lw., *pallipes* Lw., *petulca* Wl., *puctulata* Hunter, *Chrysochlamys dives* O. S., *Chrysogaster nigripes* Lw., *ontario* Curran, *Criorhina decora* Me., *intersistens* Wk., *umbratilis* Wl., *Didea fasciata fuscipes* Lw., *Eristalis aeneus* Scopoli, *bastardi* Me., *brousi* Wl. (*meigenii* Wd.), *dimidiatus* Wd., *flavipes* Wk., *latifrons* Lw., *tenax* L., *transversus* Wd., *vinetorum* F., *Helophilus divisus* Lw., *laetus* Lw., *latifrons* Lw., *similis* Me., *Mallota cimbiciformis* Fl., *illinoensis* Rb., *type*, *posticata* F., *Melanostoma mellinum* L., *obscurum* Say, *Merapioidus villosus* Bigot, *Mesogramma geminata* Say, *marginata* Say, *polita* Say, *Milesia ornata* F. (*virginiensis* Dr.), *Myiolepta nigra* Lw., *strigilata* Lw., *varipes* Lw., *Orhoneura nitida* Wd., *pictipennis* Lw., *Paragus bicolor* F., *tibialis* Fl., *Pipiza femoralis* Lw., *festiva* Mg. (*albipilosa* Wl.), *nigribarba* Lw. (*apisaon* Wk.), *pistica* Wl., *pubescens* Lw., *pulchella* Wl. (*Pipizella banksi* Curran), *Platycheirus hyperboreus* Staeger, *quadratus* Say, *Psilota buccata* Me., *Pterallastes thoracicus* Lw., *Rhingia nasica* Say, *Sericomyia chrysotoxoides* Me., *Sphaerophoria cylindrica* Say, *Sphegina campanulata* Rb., *type*, *rufiventris* Lw., *Spilomyia hamifera* Lw., *longicornis* Lw., *4-fasciata* Say, *Syritta pipiens* L., *Syrphus americanus* Wd., *arcuatus* Fl., *ribesii* F., *torvus* O. S., *Temnostoma trifasciata* Rb., *type*, *Teuchoenemis lituratus* Lw., *Tropidia albistylum* Me., *mamillata* Lw., *quadrata* Say, *Volucella evecta* Wk., *fasciata* Me., *vesiculosa* F., *Xanthogramma emarginata* Say, *felix* O. S., *flavipes* Lw., *Xylota angustiventris* Lw., *bicolor* Lw., *chalybea* Wd., *fraudulosa* Lw. (*baton* Wk.); *Tabanidae*: *Chrysops indus* O. S., *striatus* O. S., *Tabanus lineola* F., *Theriopectes illotus* O. S.; *Tachinidae*: *Actia pilipennis* Fl., *Alophora aeneoventris* Wl., *fumosa* Cq., *grandis* Cq., *cotype*, *pulverea* Cq., *Amobia distincta* Tn., *type*, *Apinops atra* Cq., *type*, *Araba tergata* Cq., *Archytas analis* F., *aterrima* Ds., *hystrix* F., *Belvosia bifasciata* F., *unifasciata* Ds., *Biomyia georgiae* B. B., *Blepharipeza leucophris* Wd., *Brachycoma intermedia* Tn., *type*, *sarcophagina* Tn., *type*, *Celatoria diabroticae* Shimer, *Ceratomyiella conica* Tn., *type*, *Chaetogaedia analis* Wulp (*aeroglossoides* Tn., *type*), *crebra* Wulp, *Chaetophleps setosa* Cq., *Chaetoplagia atripennis* Cq., *Cistogaster occidua* Wk., *pallasii* Tn. *Clytiomyia flava* Tn., *type*, *Cryptomeigenia theutis* Wk., *Cyphocera fucata* Wulp, *Distichona auriceps* Cq., *varia* Wulp, *Ennyomma clistoides* Tn., *type*, *globosa* Tn.,

nigrifrons Tn., *type*, Epalpus signiferus Wk., Epigrimyia floridensis Tn., geniculata Tn., *type*, illinoensis Rb., *type*, polita Tn., Euacemyia tibialis Cq., Eumyotheria illinoensis Tn., *type*, Euphorocera cinerea Wulp, claripennis Mc. (edwardsii Wl.), Euryceromyia robertsonii Tn., *type*, Euthera tentatrix Lw., Exorista confinis Fl., nigripalpis Tn., pyste Wk., Frontina aletiae Rl., archippivora Wk., frenchii Wl., Gonia capitata Dg., exul Wl., Gymnochaeta alcedo Lw., Gymnoprosopa clarifrons Tn., *type*, Gymnosoma fuliginosa Ds., Hilarella aristalis Cq., *type*, Hyalomyodes triangulifera Lw., Hyalurgus johnsoni Tn., Hypostena barbata Cq., dunningii Cq., indecisa Tn., *type*, variabilis Cq., Leskia analis Cq. (similis Tn.), Leskiomima prima Rb. MS, secunda Rb., MS, Leucostoma atra Tn., *type*, neomexicana Tn., nigricornis Tn., siphonina Rb. MS, Linnaemyia compta Fl., Maequartia pristis Wk. (halisodotae Tn.), Masiphya brasiliiana B. B., Metopia leucocephala Rossi, Neofischeria flava Tn., Oeyptera argentea Tn., nigra Al., dosiades Wk., lata Rb. MS (vulgaris Al.), tenuis Rb. MS (euchenor Wk.) Opsidia gonioides Cq., Pachyophthalmus floridensis Tn., signatus Mg. (mixed with distortus, aurifrons Tn., *type*), Panzeria radicum F. (aldrichi Tn.), Paradidyma singularis Tn., *type*, Peleteria robusta Wd., Phasioclista metallica Tn., *type*, Phorantha asteris Rb. MS, humeralis Rb., *type*, magna Rb. MS, purpurascens Tn., *type*, robertsonii Tn., *type*, Phorichaeta sequax Wl., Phyto elesides Wk. (anomala Tn.), Polidea arcus Wk. (americana Tn., *type*), Senotainia rubriventris Mc., trilineata Wulp, Siphona geniculata Dg., Siphoplusia anomala Tn., flaccidirostris Rb. MS, Spallanzania hesperidarum Wl., Sturmia distincta Wd., fraudulentata Wulp, inquinata Wulp, nigrita Tn., *type*, phyciodis Cq., Tachina mella Wk., robusta Tn., rustica Fl., Trichopoda lanipes F., pennipes F., plumipes F. (trifasciata Lw.), Trichophora ruficauda Wulp, Viviania lachnosternae Tn., Winthemia 4-pustulata F., Xanthomelana arcuata Say; *Tipulidae*: Geranomyia canadensis Westwood; *Trypetidae*: Euaresta aequalis Lw., bella Lw., Plagiotoma obliqua Say, Trypeta culta Wd., finalis Lw., humilis Lw., solaris Lw.

LEPIDOPTERA. (99)

Agaristidae: Alypia octomaculata F.; *Arctiidae*: Callimorpha fulvicosta Clemens (colona Hb.), Utetheisa bella L.; *Ctenuchidae*: Seepsis fulvicollis Hb.; *Crambidae*: Crambus laqueatellus Clemens.; *Hesperidae*: Achalarus lycidas S. & A., Amblyseirtes samoset (hegon) Sc., Ancyloxypha numitor F., Atalopedes huron Ed. (campestris Bs.), Atrytone delaware (logan) Ed., zabulon B. L.,

Epargyreus tityrus F., *Euphyes metacomet* Harris (*vestris* Bs.), *verna* Ed., *Hesperia montivaga* Reakirt (*syrictus* F.), *Hylephila phylaeus* Dr., *Limochores manataqua* Sc., *taumas* F. (*cernes* B. L.), *Pamphila dion* Ed., *hobomok* Hr., *Pholisora catullus* F., *hayhurstii* Ed., *Polites peckius* Kirby, *Thanaos brizo* B. L., *icelus* Lintner, *juvenalis* F., *martialis* Sc., *persius* Sc., *Thorybes bathyllus* (*daunus* Cm.), *pylades* Sc.; *Lycaenidae*: *Chrysophanus thoe* B. L., *Cyaniris pseudargiolus* B. L., *Eupsyche m-album* B. L., *Everes comyntas* Godart, *Heodes hypophaeas* Bs., *Strymon titus* F., *Thecla calanus* Hb., *sylvinus* Bs. (*acadica* Ed.), *Uranotes melinus* Hb.; *Noctuidae*: *Acontia candefacta* Hb., *Agrotis ypsilon* Rott. *Carneades velleripennis* Grote, *Drasteria erectea* Cm., *erichto* Gn. (*crassiuscula* Haw.), *Feltia subgothica* Stephens (*ducens* Wk.), *Heliothis armiger* Hb. (*obsoleta* F.), *dipsaceus* L. (*phloxiphaga* G. & R.), *Leucania albilinea* Hb., *Plusia precatationis* Gn., *simplex* Gn. (*falcifera* Kirby), *Schinia jaguarina* Gn., *Spragueia leo* Gn.; *Nymphalidae*: (including *Danaidae*, *Satyridae*, *Libytheidae*): *Anosia plexippus* L. (*Danaus archippus* F.), *Argynnis cybele* F. (*mixed with aphrodite* F.), *Basilarchia archippus* Cm., *astyanax* F., *Cercyonis alope* F., *Charidryas nycteis* D. & H., *Euphydryas phaeton* Dr., *Euptoieta claudia* Cm., *Euvanessa antiopa* L., *Hypatus bachmanni* Kirt., *Junonia coenia* Hb., *Neonympha eurytus* F., *Phyciodes tharos* Dr., *Polygonia comma* Harris, *interrogationis* F., *Speyeria idalia* Dr., *Vanessa atalanta* L., *cardui* L., *huntera* F. (*virginiensis* Dr.); *Papilionidae*: (including *Pieridae*): *Callidryas eubule* L., *Euphoeades troilus* L., *Eurema lisa* B. L. (*euterpe* Men.), *Eurymus philodice* Godart (*mixed with eurytheme*), *Heraclides cresphontes* Cm., *Iphiclides ajax* L. (*marcellus* Cm.) *Jasoniades glaucus* L., *Laertias philenor* L., *Nathalis iole* Bs., *Papilio asterias* F. (*polyxenes* F.), *Pieris repae* L., *Pontia protodice* B. L., *Xanthidia nicippe* Cm., *Zerene caesonia* Stoll; *Pyraustidae*: *Loxostege similalis* Gn., *Nomophila noctuella* Voll.; *Pyromorphidae*: *Harrisina americana* Guerin; *Sesiidae*: *Carmenta pyralidiformis* Wk., *Sesia pictipes* G. & R., *6-fasciata* Ed. (*bassiformis* Wk.); *Sphingidae*: *Chaerocampa tersa* L., *Deilephila lineata* F., *Hemaris axillaris* G. & R. (*diffinis* Bs.), *thysbe* F., *Philampelus pandorus* Hb. (*satellitia* Dr.), *Protoparce celeus* Hb. (*5-maculata* Haw.), *Sphinx eremitus* Hb.

COLEOPTERA. (153)

Anthicidae: *Corphyra labiata* Say, *terminalis* Say; *Bruchidae*: *Bruchus bivulneratus* Horn, *cruentatus* Horn, *discoideus* Say, *exiguus* Horn (*horni* Pic.), *hibisei* Ol., *mimus* Say, *musculus* Say, *obsoletus* Say (*obtectus* Say); *Buprestidae*: *Acmaeodera culta*

Weber (tubulus F.), pulchella Hr., Agrilus difficilis Gory, egenus Gory; *Calandryidae*: Rhodobaenus 13-punctatus Ill.; *Carabidae*: Callida punctata Le., Lebia viridis Say; *Cerambycidae*: Aemaecops nigripennis Le., directa Nw., Batyle suturalis Say, Callimoxys fuscipennis Le., sanguinicollis Ol., Cyllene decorus Ol., robiniae Fr., Euderees picipes F., Leptura exigua Nw., pubera Say, vittata Gr., Molorchus bimaeculatus Say, Strangalia famelica Nw., Tetraopes tetraophthalmus Fr., Typocerus badius Nw., lugubris Say, sinuatus Nw., velutinus Ol.; *Chrysomelidae*: Anomoea laticlavata Fr., Babia 4-guttata Ol., Cerotoma caminea F. (trifurecata Fr.), Chrysomela similis Rogers, Cryptocephalus insertus Hald., Diabrotica atripennis Say, 12-punctata F., longicornis Say, vittata F., Disonycha limbicollis (pennsylvanica) pallipes Crotch, Galeruca tuberculata Say, Glyptina spuria Le., Haltica carinata Gr., Lina lapponica L., Luperaltica fuscula Le., Mantura floridana Crotch, Orsodaehna atra Ahrens, Pachybrachys atomarius Ml., Rhabdopterus picipes Ol., Trirhabda tomentosa L.; *Cleridae*: Enoplium 4-punctatum Say; *Coccinellidae*: Coccinella 9-notata Hr., sanguinea L., Hippodamea glacialis F., parenthesis Say, 15-maculata Mul. (convergens Guerin), 13-punctata L., Megilla maculata Dg. (fuscilabris Mul.), Seymnus consobrinus Le., terminatus Say; *Curculionidae*: Apion nigrum Hr., Centrinites strigicollis Casey, Centrinus perseillus Gyll., picumnus Hr., scutellum-album Say, Idiostethus subcalvus Le., tubulatus Say, Limnobaris prolixa Le., Listrionotus caudatus Say; *Dermestidae*: Anthrenus musaeorum L. (castaneae Ml.), serophulariae L., Attagenus piceus Ol., Cryptorhopalum haemorrhoidale Le., triste Le., Orphilus glabratus F. (ater Er.); *Elatridae*: Agriotes insanus Candeze, Limonius griseus Bv. (propexus Candeze), Melanotus communis Gyll., Sericosomus silaceus Say; *Erotylidae*: Languria mozardi Latr.; *Histeridae*: Hister americanus Paykull, subrotundus Say; *Lampyridae*: Calopteron reticulatum F., Chauliognathus marginatus F., pennsylvanicus Dg., Ditemnus bidentatus Say, Ellyehnia corrusea L., Photinus pyralis L., Podabrus brunnicollis Le., rugulosus Le., tomentosus Say, Pyraetomena angulata Say, Telephorus bilineatus Say, dentiger Le., flavipes Le., seitulus Say; *Latridiidae*: Corticaria distinguenda Comolli; *Melachidae*: Anthocomus erichsoni Le., Attalus scineetus Say, Collops 4-maculatus F., Melyris eribrata Le.; *Melandyridae*: Canifa pallipes Ml., Nothus varians Le.; *Meloidae*: Epicauta cinerea Fr., pennsylvanica Dg., trichrus Pallas, vittata Fr., Macrobasis unicolor Kirby, Nemognatha vittigera Le., Pyrota germari Haldeman, mylabrina Chevrolat, terminata Le.; *Mordellidae*: Mordella marginata Ml., melæna Gr., 8-punctata F., scutellaris F., triloba Say, Mordellistena

aspersa Ml., biplagiata Hel., comata Lc., grammica Lc., limbalis Ml., lutea Ml., marginalis Say, ornata Ml., pubescens F., tosta Lc., *Pentaria trifasciata* Ml.; *Nitidulidae*: *Carpophilus brachypterus* Say, *Cercus abdominalis* Erichson, *Epurea labilis* Erichson, *truncatella* Mannerheim; *Oedemeridae*: *Asclera puncticollis* Say, *ruficollis* Say, *Oxaxis thoracica* F.; *Rhipiphoridae*: *Myodites fasciatus* Say, *Rhipiphorus dimidiatus* F., *flavipennis* Lc., *limbatus* F.; *Rhynchitidae*: *Eugnamptus angustatus* Hr.; *Scarabaeidae*: *Euphoria fulgida* F., *sepulchralis* F., *Hoplia trifasciata* Say, *Macroductylus angustatus* Bv., *Onthophagus pennsylvanicus* Harold, *Trichius affinis* Gory, *piger* F., *Valgus canaliculatus* F.

HEMIPTERA. (25)

Acanthiidae: *Triphleps insidiosus* Say; *Berytidae*: *Corizus lateralis* Say, *Harmostes reflexulus* Say; *Capsidae*: *Calocoris rapidus* Say, *Lopidea media* Say, *Lygus pratensis* L., *Phytocoris scrupeus* Say, *Plagiognathus obscurus* Uhler; *Coreidae*: *Alydus eurinus* Say, *pilosulus* H.S., *Chariesterus antennator* F.; *Corimelaenidae*: *Corimelaena lateralis* F., *pulicaria* Gr.; *Cydnidae*: *Canthophorus cinctus* Bv.; *Lygaeidae*: *Lygaeus turcicus* F., *Melanocoryphus bicrucis* Say, *Oncopeltus fasciatus* Dallas, *Ortholomus longiceps* Stal; *Nabidae*: *Coriscus ferus* L.; *Pentatomidae*: *Euschistus fissilis* Uhler (*euschistoides* Vol.), *ictericus* L., *variolarius* Bv., *Podisus spinosus* Dallas; *Phymatidae*: *Phymata wolffii* Stal, pred.; *Reduviidae*: *Sinea diadema* F.

NEUROPTERA

Chrysopidae: *Chrysopa plorabunda* Fitch.

VISITORS

ACANTHACEAE

Dianthera americana (5: 65-6).—Blooms June 8-August 23; 58 visitors observed, June 11-July 5; Mas, R.

Long-tongued Bees (24)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias separatus* ♀, fq, *Bombus americanorum* ♀, *impatiens* ♀; *Ceratin.*: *Ceratina* ♂ ♀, ab; *Megachil.*: *Osmiini* (♀): *Alcidamea simplex* sc, fq, *Hoplitis* sc, *Osmia distincta*; *Megachilini*: *Cyphopyga* ♂, *Megachile addenda* ♀, sc, *brevis* ♂, *generosa* ♂, *Sayapis pugnata* ♂; *Coelioxyini*: *Coelioxys 8-dentata* ♂ ♀, *sayi* ♂ ♀, fq; *Nomad.*: *Centrias americanus* ♀; *Epeol.*: *Epeolus bifasciatus* ♂, *Triepeolus concolor* ♂ ♀; *Eucer.*: *Florilegus* ♂, ab, *Melissodes bimaculata* ♂ ♀, ab, *variabilis* ♂, *Tetralonia dilecta* ♀, *rosae* ♂ ♀; *Anthophor.*: *Anthemoessa* ♂ ♀, fq.

Short-tongued Bees (11)—*Halict.*: *Agapostemon radiatus* ♂ ♀, *viridulus* ♀, *Chloralictus pilosus* ♀, *c. sparsus* ♀, *se. versatus* ♀, *se. ab.*, *Halictus lerouxii* ♂ ♀, *ab.*, *Odontalictus* ♂ ♀, *Oxystoglossa confusa* ♀, *se. ab.*, *similis* ♀, *Seladonia* ♂ ♀; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, *ab.*

Other Hymenoptera (3)—*Sphcc.*: *Sphex nigricans*; *Bembic.*: *Bembix spinolae*; *Scoli.*: *Campsomeris*.

Diptera (12)—*Syrph.*: *Allograpta* f, n, *Eristalis tenax* sf, *Helophilus laetus* f, n, *Mesogramma marginata* f, n, *Sphaerophoria* f, n, *Syritta*, *Tropidia quadrata*; *Bombyli.*: *Anthrax parvicornis*, *Bombylius azaleae*, *atriceps* fq; *Conop.*: *Physocephala tibialis*, *Zodion fulvifrons*.

Lepidoptera (8)—*Nymphal.*: *Charidryas*; *Lycaen.*: *Cyaniris*; *Papilion.*: *Pieris*; *Hesper.*: *Epargyreus*, *Euphyes metacomet*, *Pholisora catullus*, *Thanaos martialis*, *Thorybes bathyllus*.

Ruellia ciliosa.—Blooms May 26–September 20; 10 visitors observed, May 29–August 2; Ma, R.

Long-tongued Bees (6)—*Bomb.*: *Bombus americanorum* ♀ ♂, *impatiens* ♀; *Megachil.*: *Megachile brevis* ♀, *c.* also cutting petals, *Xanthosarus* ♀, *se.*; *Eucer.*: *Tetralonia dilecta* ♂ ♀; *Anthophor.*: *Amegilla* ♂.

Short-tongued Bees (1)—*Halict.*: *Agapostemon viridulus* ♀, *c.*, n.

Other Hymenoptera (1)—*Eumen.*: *Leionotus dorsalis*, perforating.

Diptera (2, f, n)—*Syrph.*: *Allograpta*; *Bombyli.*: *Anthrax sinuosa*.

Ruellia strepens.—Blooms May 22–September 13; 1 visitor observed, June 16; Ma, R.

Long-tongued Bees (1)—*Eucer.*: *Tetralonia dilecta* ♀.

ACERACEAE (anemophilous)

Acer negundo.—One visitor observed, April 18, 24.

Long-tongued Bees (1)—*Ap.*: *Apis c.*, *ab.*

Acer saccharinum.—One visitor observed, April 10.

Long-tongued Bees (1)—*Ap.*: *Apis c.*, *ab.*

Acer saccharum.—April 4 and 13 the following 22 species were taken at exuding sap, 5 never taken on flowers.

Long-tongued Bees (1)—*Ap.*: *Apis ab.*

Short-tongued Bees (1)—*Andren.*: *Trachandrena rugosa* ♂, 3.

Other Hymenoptera (2)—*Bracon.*: *Earinus* 7; *Tenthredin.*: *Dolerus sericeus* 2.

Diptera (15)—*Syrph.*: *Helophilus similis* 1, *Syrphus ribesii* 3; *Tachin.*: *Gonia capitata* fq; *Sarcophag.*: *Calliphora erythrocephala* 1, *vomitaria* 3, *Cynomyia* 1, *Helicobia 4-setosa* 1; *Musc.*: *Lucilia caesar* 4, *Muscina* 2, *Pseudopyrellia* 4; *Anthomy.*: *Hydrotaea* 3, *Hyetodosia* 25; *Agromyz.*: *Aulacigaster* 2; *Scatophag.*: *Scatophaga* 12; *Seps.*: *Prochyliza* 10.

Lepidoptera (3)—*Nymphal.*: *Eu Vanessa* 4, *Polygonia comma* 2, *Vanessa atalanta* 2.

AIZOACEAE

Mollugo verticillata (int, 5: 274).—Blooms June 25–October 12; 13 species and 29 individuals observed, July 16, August 11, 21; Mi, W.

Short-tongued Bees (5: 13)—*Halict.*: *Chloralictus pilosus* ♂, 1, *sparsus* ♀, sc, 4, *tegularis* ♂ ♀, 3, *versatus* ♂ ♀, sc, 4, *Seladonia* ♂, 1.

Other Hymenoptera (1: 3)—*Philanth.*: *Cerceris finitima* 3.

Diptera (6: 9)—*Syrph.*: *Mesogramma marginata* sf, 4, *Paragus tibialis* 1, *Pipiza pulchella* 1; *Conop.*: *Zodion nanellum* 1; *Sarcophag.*: *Helicobia 4-setosa* 1; *Musc.*: *Pseudopyrellia* 1.

Coleoptera (1: 2)—*Malach.*: *Collops* 2.

ALISMACEAE

Alisma plantago aquatica.—Blooms July 4–August 13; 13 species and 101 individuals observed, July 20, 21, 1909; Mi, W.

Short-tongued Bees (6: 52)—*Halict.*: *Agapostemon radiatus* ♂, 1, *Chloralictus coreopsis* ♀, 1, *cressonii* ♂, 3, *sparsus* ♀, 8, *tegularis* ♀, 31, *Oxystoglossa similis* ♀, 8.

Diptera (7: 49)—*Syrph.*: *Mesogramma marginata* 32, *Paragus bicolor* 2, *tibialis* 2, *Sphaerophoria* 10, *Syritta* 1; *Tachin.*: *Gymnoprosope* 1, *Senotainia rubriventris* 1.

Sagittaria latifolia.—Blooms July 1–September 25; 122 individuals, belonging to 52 species, observed July 25–August 30; Mi, W.

On staminate flowers (24: 42):—

Long-tongued Bees (2: 2, ♀)—*Ceratin.*: *Ceratina* ♀, 1; *Megachil.*: *Megachile brevis* ♀, sc, 1.

Short-tongued Bees (5: 18, ♀, sc)—*Halict.*: *Chloralictus sparsus* 5, *versatus* 7, *Evylaeus nelumbonis* 1, *Odontalictus* 4, *Oxystoglossa confusa* 1.

Other Hymenoptera (4: 4)—*Eumen.*: *Leionotus anormis* 1, *ziziae* 1; *Larr.*: *Tachytes aurulentus* 1; *Nysson.*: *Pseudoplisus phaleratus* 1.

Diptera (8:12)—*Syrph.*: *Mesogramma marginata* 1, *Orthoneura nitida* f, 2, *Rhingia* 1; *Empid.*: *Parempis* 1; *Bombyli.*: *Sparnopolius* 2; *Tachin.*: *Epigrimyia geniculata* 1; *Musc.*: *Lucilia sericata* 1; *Anthomy.*: *Limnophora* 3.

Lepidoptera (3:3)—*Papilion.*: *Charidryas* 1; *Lycaen.*: *Chrysophanus* 1; *Hesper.*: *Limochores taumas* 1.

Coleoptera (2:3)—*Chrysomel.*: *Diabrotica 12-punctata* 1; *Coccinell.*: *Megilla* f, in cop, 2.

On staminate and pistillate flowers (17:66):—

Long-tongued Bees (2:13)—*Ap.*: *Apis* 3; *Bomb.*: *Bombus americanorum* ♀, se, 10.

Short-tongued Bees (4:18)—*Halict.*: *Agapostemon viridulus* ♂, 5, *Chloralictus pilosus* ♀, se, 3, *Evylaeus pectoralis* ♂ ♀, se, 8, *Oxystoglossa similis* ♀, se, 2.

Other Hymenoptera (3:12)—*Scoli.*: *Elis interrupta* 2, *5-cincta* 7; *Eumen.*: *Leionotus arvensis* 3.

Diptera (4:10)—*Syrph.*: *Syrpitta* 2; *Tachin.*: *Archytas analis* 3, *Cyphocera* 2; *Musc.*: *Lucilia sylvarum* 3.

Lepidoptera (3:9)—*Nymphal.*: *Phyciodes* 3; *Hesper.*: *Ancyloxypha* 2; *Ctenuch.*: *Scepsis* 4.

Coleoptera (1:4)—*Lampyr.*: *Chauliognathus pennsylvanicus* 4.

On pistillate flowers (11:14):—

Short-tongued Bees (2:2)—*Halict.*: *Augochlora fervida* ♀, 1, *viridula* ♀, 1.

Other Hymenoptera (3:4)—*Sphec.*: *Priononyx atrata* 1; *Philanth.*: *Cerceris compacta* 1; *Vesp.*: *Polistes pallipes* 2.

Diptera (5:7)—*Tachin.*: *Spallanzania* 1, *Trichophora* 3; *Sarcophag.*: *Helicobia helcis* 1, *Sarcophaga sinuata* 1; *Musc.*: *Lucilia caesar* 1.

Lepidoptera (1:1)—*Papilion.*: *Eurymus* 1.

AMARANTHACEAE (anemophilous)

Amaranthus spinosus (int).—One visitor observed, July 19.

Long-tongued Bees (1)—*Ap.*: *Apis* se, fq.

AMARYLLIDACEAE

Hypoxis hirsuta (5:69).—Blooms April 23–June 12; 16 visitors observed, May 10–19; Mi, Y.

Long-tongued Bees (4, ♀, c)—*Ceratin.*: *Ceratina* ab; *Megachil.*: *Osmia atriventris*, *illinoensis* fq, *distincta*.

Short-tongued Bees (9, ♀, c)—*Halict.*: *Chloralictus cressonii*, *sparsus*, *tegularis*, *versatus*, *Curtisapis coriacea*, *Dialictus anomalus type*, *Evylaeus pectoralis*, *Odontalictus*, *Oxystoglossa similis* ab.

Diptera (2, f)—*Syrph.*: *Mesogramma marginata*, *Sphaerophoria*.
 Coleoptera (1, f)—*Buprest.*: *Acmaeodera culta*.

ANACARDIACEAE

Rhus canadensis (9:161-3).—Blooms April 4–May 2; 33 visitors observed, April 4–19; Mis, Y.

Long-tongued Bees (2)—*Ceratin.*: *Zaodontomerus* ♂; *Nomad.*: *Gnathias cuneatus* ♂ ♀, fq.

Short-tongued Bees (21)—*Halict.* (♀): *Agapostemon texanus*, *Chloralictus cressonii*, *foveolatus*, *sparsus*, *zephyrus* fq, *Curtisapis forbesii* fq, *Evylaeus foxii* fq, *Odontalictus*, *Oxystoglossa confusa*; *Collet.*: *Colletes inaequalis* ♂; *Andren.*: *Andrena carlini* ♂ ♀, fq, *erythrogastra* ♀, *mandibularis* ♂ ♀, fq, *salictaria* ♀, *tridens* ♂, *Opandrena cressonii* ♂, *miserabilis* ♂ ♀, fq, *Trachandrena claytoniae* ♂ ♀, ab, *forbesii* ♂ ♀, fq, *mariae* ♂, fq, *rugosa* ♂ ♀, ab.

Other Hymenoptera (1)—*Ichneumon*: *Lampronota coxalis*.

Diptera (9)—*Syrph.*: *Eristalis dimidiatus*, *Syrphus americanus* fq, *ribesii*; *Empid.*: *Rhamphomyia priapulus*; *Tachin.*: *Gonia capitata* fq; *Sarcophag.*: *Cynomyia*; *Musc.*: *Pseudopyrellia* fq; *Lonchae.*: *Lonchaea aberrans*; *Sciomyz.*: *Tetanocera*.

Rhus copallina.—Blooms July 19–August 10; 74 visitors observed, July 26–28; Pol (Mis), Y.

On pistillate flowers:—

Long-tongued Bees (8)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias separatus* ♀; *Megachil.*: Trypetini: *Neotrypetes truncatus* ♂; Megachilini: *Megachile generosa* ♂, *mendica* ♂; Coelioxyni: *Coelioxys 8-dentata* ♂ ♀, *sayi* ♂; *Eucer.*: *Melissodes bimaculata* ♂.

Short-tongued Bees (15)—*Halict.*: *Agapostemon radiatus* ♂ ♀, *Augochlora fervida* ♂, *Chloralictus pilosus* ♂ ♀, *sparsus* ♀, ab, *versatus* ♂ ♀, ab, *zephyrus* ♀, fq, *Halictus lerouxii* ♂ ♀, ab, *parallelus* ♂ ♀, *Oxystoglossa confusa* ♀, *similis* ♂, *Seladonia* ♂ ♀, ab; Sphecodini: *Drepanium* ♀, *Sphecodes arvensis* ♂ ♀, fq; *Prosopid.*: *Prosopis illinoensis* ♀, *pygmaea* ♂ ♀.

Other Hymenoptera (29)—*Sphec.*: *Ammobia ichneumonea*, *pennsylvanica*, *Isodontia apicalis*, *Sphex gracilis*, *nigricans*, *vulgaris*; *Scoli.*: *Elis interrupta*, *5-cincta*, *Scolia bicincta*; *Philanth.*: *Cerceris fumipennis*, *Eucerceris*, *Philanthus punctatus* fq, *ventilabris*; *Vesp.*: *Polistes rubiginosus*, *variatus*; *Eumen.*: *Leionotus arvensis* fq, *dorsalis*, *foraminatus* fq, *4-sectus*; *Crabron.*: *Anacrabro*, *Lindenius errans*, *Solenius*; *Oxybel.*: *Notoglossa americana*, *frontalis*, *Oxybelus packardii*; *Larr.*: *Tachytes distinctus*; *Pompil.*: *Arachnoproctonus*, *Poecilopompilus navus*; *Chalcid.*: *Leucospis*.

Diptera (22)—*Stratiomy.*: *Stratiomyia meigenii*; *Syrph.*: *Allograpta*, *Mesogramma marginata*, *Syrpitta* fq; *Conop.*: *Conops brachyrrhynchus*, *Oncomyia*, *Physocephala tibialis*, *Zodion nanellum*; *Tachin.*: *Archytas analis* fq, *Linnaemyia* fq, *Ocyptera lata*, *Phor-antha purpuraseens*, *Senotainia trilineata* fq, *Trichopoda pennipes*, *Trichophora*; *Sarcophag.*: *Helicobia helieis*, *Sarcophaga cimbicis*; *Musc.*: *Compsomyia* fq, *Lucilia sylvarum*, *Musea*, *Pseudopyrellia* fq; *Anthomy.*: *Calythea*.

Rhus glabra (7: 111-12).—Blooms May 27-July 7; 114 visitors observed, June 5-July 7; Mis, Y.

On staminate flowers (57):—

Long-tongued Bees (4)—*Bomb.*: *Bombias separatus* ♀, se; *Stelid.*: *Microstelis* ♀; *Megachil.*: Trypetini: *Neotrypetes truncatus* ♂ ♀, se, fq; Coelioxyni: *Coelioxys sayi* ♀.

Short-tongued Bees (11)—*Halict.*: *Curtisapis fuscipennis* ♀, se, *Evylaeus areuatus* ♂ ♀, se, ab, *Oxystoglossa confusa* ♀, se; Sphecodini: *Sphecodes arvensis* ♀; *Prosopid.*: *Prosopis illinoensis* ♀, *ziziae* ♂ ♀, sf; *Collet.*: *Colletes aestivalis* ♂ ♀, *nudus* ♂; *Andren.*: *Andrena platyparia* ♀, se, *Opandrena cressonii* ♀, se, *Trachandrena nuda* ♂.

Other Hymenoptera (10)—*Bembic.*: *Bicyrtes ventralis*; *Philanth.*: *Cerceris compar*, *fumipennis*, *insolita*, *Philanthus punctatus*; *Eumen.*: *Ancistrocerus campestris*, *Leionotus arvensis*, *Monobia*, *Zethus*; *Crabron.*: *Solenius*.

Diptera (29)—*Stratiomy.*: *Stratiomyia apicula*, *meigenii*, *quaternaria*; *Syrph.*: *Baccha fuscipennis*, *Ceria*, *Eristalis dimidiatus*, *flavipes*, *tenax*, *transversus*, *Mallota cimbiciformis*, *posticata*, *Mesogramma geminata*, *Orthoneura nitida*, *Sphaerophoria*, *Sphegina rufiventris*, *Syrphus americanus*, *ribesii*; *Empid.*: *Parempis* fq, *Bombyli.*: *Anthrax alternata*, *sinuosa* f, *Bombylius atriceps*; *Conop.*: *Conops brachyrrhynchus*, *Zodion fulvifrons*, *nanellum*; *Tachin.*: *Hypostena variabilis*, *Siphona*; *Musc.*: *Lucilia caesar*, *Morellia*; *Anthomy.*: *Limnophora*.

Lepidoptera (3)—*Nymphal.*: *Neonympha*; *Lycaen.*: *Cyaniris*, *Thecla calanus*.

On staminate and pistillate flowers (18):—

Long-tongued Bees (1)—*Ceratin.*: *Ceratina* ♀, se.

Short-tongued bees (10)—*Halict.*: *Agapostemon radiatus* ♀, se, *viridulus* ♀, se, *Chloralictus pilosus* ♀, se, *pruinus* ♂ ♀, se, *sparsus* ♀, se, ab, *versatus* ♂ ♀, se, ab, *zephyrus* ♂ ♀, se, ab, *Halictus lerouxii* ♂ ♀, se, fq; *Collet.*: *Colletes eulophi* ♂ ♀, ab; *Andren.*: *Opandrena serotina* ♂ ♀, se, fq.

Other Hymenoptera (3)—*Sphec.*: *Sphex vulgaris*; *Philanth.*: *Cerceris robertsonii* fq; *Oxybel.*: *Notoglossa americana*.

Diptera (4)—*Syrph.*: *Allograpta*, *Mesogramma marginata* fq; *Conop.*: *Physocephala tibialis*; *Tachin.*: *Ocyptera tenuis*.

On pistillate flowers (39):—

Long-tongued Bees (3)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♀; *Ceratin.*: *Zaodontomerus* ♂.

Short-tongued Bees (7, ♀)—*Halict.*: *Chloralictus tegularis*, *Halictus parallelus*, *Oxystoglossa similis*, *Seladonia*; *Prosopid.*: *Prosopis pygmaea*; *Collet.*: *Colletes willistonii* ab; *Andren.*: *Trachandrena crataegi*.

Other Hymenoptera (10)—*Sphec.*: *Isodontia apicalis*, *Priononyx thomae*, *Sphex procera*; *Philanth.*: *Cerceris compacta* fq; *Vesp.*: *Polistes pallipes*; *Eumen.*: *Leionotus anormis* fq; *Oxybel.*: *Notoglossa frontalis*; *Pemphredon.*: *Mimesa*; *Pompil.*: *Pompiloides marginatus*; *Bracon.*: *Vipio*.

Diptera (18)—*Syrph.*: *Syritta*; *Tachin.*: *Archytas analis* ab, *aterrima*, *Belvosia bifasciata*, *Cyphocera*, *Pachyophthalmus floridensis*, *Peleteria*, *Spallanzania*; *Sarcophag.*: *Helicobia helicis*, 4-setosa, *Sarcophaga cimbicis*, *hunteri*, *sinuata*; *Musc.*: *Lucilia sylvarum*, *Pseudopyrellia*, *Stomoxys*; *Anthomy.*: *Phorbia acra*, *platura*.

Coleoptera (1)—*Mordell.*: *Mordella melaena*.

June 17, 1913, the following 17 species and 51 individuals were taken on pistillate flowers of *Rhus glabra*:

Long-tongued Bees (3:19)—*Bomb.*: *Bombias auricomus* 1; *Ceratin.*: *Ceratina* 17, *Zaodontomerus* 1.

Short-tongued Bees (10:28)—*Halict.*: *Agapostemon radiatus* 2, *viridulus* 1, *Chloralictus pilosus* 1, *sparsus* 9, *tegularis* 1, *versatus* 6, *zephyrus* 2, *Oxystoglossa similis* 2; *Prosopid.*: *Prosopis pygmaea* 1; *Andren.*: *Opandrena serotina* 3.

Other Hymenoptera (1:1)—*Sphec.*: *Sphex procera* 1.

Diptera (3:3)—*Syrph.*: *Allograpta* 1, *Syritta* 1; *Tachin.*: *Peleteria* 1.

Rhus toxicodendron.—Blooms May 18–June 29; 1 visitor observed, June 8; Mis, Y.

Short-tongued Bees (1)—*Andren.*: *Trachandrena crataegi* ♀, sc.

ANONACEAE

Asimina triloba (16:154–5).—Blooms April 10–May 27; 8 visitors observed, May 5; Mi, R.

Diptera (8)—*Syrph.*: *Syrphus americanus*; *Sarcophag.*: *Cynomyia* fq, *Helicobia helieis*, 4-setosa, *Sarcophaga sinuata*; *Musc.*: *Phormia regina*; *Anthomy.*: *Phorbia platura*; *Scatophag.*: *Scatophaga*.

APOCYNACEAE

Apocynum androsaemifolium.—Blooms May 10–July 28; 12 visitors observed, July 16, 25; Mis, W.

Long-tongued Bees (1)—*Nomad.*: *Centrias americanus* ♀, mp.

Short-tongued Bees (5, no pol.)—*Halict.*: *Chloralictus versatus* ♀, *zephyrus* ♀, *Oxystoglossa confusa* ♂, *similis* ♂ ♀; *Prosopid.*: *Prosopis sayi* ♀.

Other Hymenoptera (1)—*Sphec.*: *Sphex vulgaris*, no pol.

Diptera (5, n)—*Tachin.*: *Linnaemyia*, *Trichophora*; *Musc.*: *Graphomyia*, *Lucilia sylvorum*; *Anthomy.*: *Phorbia acra*.

Apocynum cannabinum (4: 70).—Blooms May 18–August 12; 48 visitors observed, June 1–July 17; Mis, W.

With pollinia (9):—

Long-tongued Bees (3)—*Ap.*: *Apis* lp; *Nomad.*: *Centrias americanus* ♂ ♀, fq, mp, lp; *Holonomada affabilis* ♂, lp.

Short-tongued Bees (3, mp)—*Halict.* (♀): *Agapostemon radiatus*, *Oxystoglossa confusa*; *Collet.*: *Colletes productus* ♂, *type*.

Other Hymenoptera (3)—*Sphec.*: *Isodontia apicalis* t; *Bembic.*: *Bicyrtes ventralis* mp; *Eumen.*: *Leionotus foraminatus* t.

Without pollinia (39):—

Long-tongued Bees (3)—*Stelid.*: *Microstelis* ♀; *Megachil.*: *Megachilini*: *Chelostomoides* ♀; *Coelioxysi*: *Coelioxys 8-dentata* ♂ ♀.

Short-tongued Bees (6)—*Halict.*: *Augochlora viridula* ♀, *Chloralictus versatus* ♂ ♀, *Seladonia* ♀; *Prosopid.*: *Prosopis ziziae* ♀; *Collet.*: *Colletes aestivalis* ♂; *Macropid.*: *Maeropsis* ♂, fq.

Other Hymenoptera (4)—*Sphec.*: *Priononyx atrata*, *thomae*, *Sphex vulgaris*; *Larr.*: *Astatus unicolor*.

Diptera (21, n)—*Mycetophil.*: *Sciara atrata*; *Syrph.*: *Allograpta*, *Eristalis dimidiatus*, *Helophilus laetus*, *Sphaerophoria*, *Tropidia mamillata*, *quadrata*; *Empid.*: *Parempis*; *Bombyli.*: *Anthrax alternata*, *Bombylius atriceps*; *Tachin.*: *Arehytas analis*, *Cistogaster occidua*, *Linnaemyia*, *Ocyptera tenuis*, *Spallanzania*, *Trichophora*; *Sarcophag.*: *Helicobia helieis*; *Musc.*: *Compsomyia*, *Phormia regina*; *Anthomy.*: *Limnophora*, *Phorbia acra*.

Lepidoptera (2, n)—*Nymphal.*: *Argynnis*; *Lycan.*: *Thecla calanus*.

Coleoptera (1)—*Scarabae.*: *Trichius piger* n.

Hemiptera (2, n)—*Caps.*: *Lygus*; *Lygae.*: *Lygaeus*.

ARACEAE

Arisaema triphyllum.—Blooms April 27–July 1; 1 visitor observed, May 11, also twenty specimens belonging to about seven species of Nematocera; Mi, Y.

Hemiptera (1)—*Nab.*: *Coriscus*.

ARISTOLOCHACEAE

Aristolochia tomentosa.—Blooms May 9–June 24; 5 visitors observed, May 15–June 13; Mi, Y.

Diptera (4)—*Chironom.*: *Ceratopogon websteri*; *Mycetophil.*: *Sciara atrata, vulgaris*; *Phor.*: *Phora*.

Coleoptera (1)—*Melandry.*: *Canifa*.

ASCLEPIADACEAE

According to the situation of the pollinia the insects carrying them are marked: c = claws, emp = empodium, f = face, g = glossa, h = tarsal hairs, l = labrum, lp = labial palpi, mp = maxillary palpi, p = pulvillus, sp = tibial spur, t = proboscis, usually palpi, vs = hairs of ventral surface.

Acerates floridana (1: 245–7; 13: 576–7).—Blooms June 24–August 16; 18 visitors observed, July 5–August 16; Mas, W.

With pollinia (10):—

Long-tongued Bees (6: 21)—*Ap.*: *Apis* vs; *Bomb.*: *Bombias scutellaris* ♀, vs, ab, separatus ♂ ♀ ♀, l, t, vs, ab; *Megachil.*: *Megachile generosa* ♀, vs, mendica ♀, vs.

Other Hymenoptera (4)—*Sphec.*: *Priononyx atrata* vs; *Bembic.*: *Bembix nubillipennis* l, ab; *Philanth.*: *Cerceris bicornuta* vs, f, t; *Pompil.*: *Priocnemoides unifasciatus* vs, t.

Coleoptera (1)—*Scarabae.*: *Trichius piger* vs.

Without pollinia (8):—

Long-tongued Bees (1)—*Megachil.*: *Megachile brevis* ♀.

Other Hymenoptera (5)—*Scoli.*: *Elis 5-cincta*; *Philanth.*: *Cerceris compar*; *Vesp.*: *Polistes variatus*; *Eumen.*: *Leionotus arvensis*; *Bracon.*: *Orgilus*.

Lepidoptera (2)—*Lycaen.*: *Chrysophanus*; *Ctenuch.*: *Scepsis* fq.

Acerates viridiflora (1: 247–8).—Blooms June 8–July 29; 5 visitors observed, June 14–July 29; Mas, Y.

Long-tongued Bees (3, h)—*Bomb.*: *Bombias scutellaris* ♀, separatus ♀, fq; *Eucer.*: *Anthedon* ♂.

Other Hymenoptera (2)—*Larr.*: *Tachytes mandibularis* h; *Eumen.*: *Leionotus arvensis*, no pollinia.

Asclepias incarnata (1: 209; 13: 571-2).—Blooms July 5–September 2; 112 visitors observed, July 22–September 2; Pol (Mas), R.

With pollinia (88):—

Long-tongued Bees (12)—*Ap.*: *Apis* h, t, ab, one dead; *Bomb.*: *Bombias auricomus* ♂ ♀ ♀, h, e, fq, *scutellaris* ♂ ♀, h, e, t, fq, *separatus* ♂ ♀ ♀, h, e, *Bombus americanorum* ♂ ♀ ♀, h, e, t, *consimilis* ♂, h, e, t, *impatiens* ♀ ♀, h, e, t, *Psithyrus laboriosus* ♂, h, e, lp; *Eucer.*: *Epimelissodes atripes* ♀, h, *Melissodes comptoides* ♂, h, *trinodis* ♀, h; *Emphor.*: *Melitoma* ♂, h.

Short-tongued Bees (6)—*Halict.*: *Augochlora fervida* ♂ ♀, h, fq, *Curtisapis coriacea* ♂, h, t, *Halictus lerouxii* ♂, p, *Oxystoglossa similis* ♂, t, *Seladonia* ♀, h; *Collet.*: *Colletes latitarsis* ♀, h, e, t, dead.

Other Hymenoptera (42)—*Sphéc.*: *Ammobia ichneumonea* h, *nuda* h, *pennsylvanica* h, e, t, fq, *Isodontia apicalis* h, *macrocephala* h, *Priononyx atrata* h, fq, *thomae* h, fq, *Sceliphron* h, one dead; *Bembic.* (h): *Bembix nubillipennis* fq, *spinolae*, *Megastizus*, *Sphécus* fq, *Stictia*; *Scoli.*: *Elis interrupta* h, t, *obseura* h, 5-cincta h, e, t, fq, *Scolia bicincta* h; *Philanth.*: *Cerceris bicornuta* h, e, t, fq, *elypeata* h, e, *compacta* h, e, *finitima* t, *fumipennis* p; *Vesp.*: *Polistes pallipes* h, e, *rubiginosus* h, e, *variatu* h, e, *Vespula cuneata* h, e, t, fq, *germanica* h, *maculata* h, *vidua* h, e, t; *Eumen.*: *Leionotus arvensis* h, e, t, ab; *Crabron.*: *Protothyreopus ruffemur* e; *Oxybel.*: *Oxybelus packardii* e, t; *Larr.*: *Tachytes aurulentus* h, *distinctus* h, *mandibularis* h, t, fq, *pepticus* h; *Nyss.*: *Pseudoplisus phaleratus* h; *Pompil.* (h): *Ageniella accepta*, *Arachnoproctonus*, *Episyron*, *Lophopompilus atrox*, *Priocnemoides unifasciatus*.

Diptera (8)—*Stratiomy.*: *Stratiomyia meigenii* e; *Mida.*: *Midas clavatus* h, t, *tibialis* p; *Conop.*: *Conops xanthopareus* p, fq, *Physocephala tibialis* h; *Tachin.*: *Cistogaster occidua* t, n, *Panzeria* e, *Trichopoda lanipes* h.

Lepidoptera (15)—*Nymphal.*: *Anosia* h, *Argynnis* h, *Basilarchia archippus* h, *Hypatus* h, *Speyeria* h, *Vanessa atalanta* h, e; *Papilion.*: *Euphœades* h, *Eurymus* h, *Heraclides* h, *Jasoniades* h, e, *Laertias* h, *Papilio* h, e, *Pieris* h, e; *Hesper.*: *Achalarus* h, *Limochores taumas* h.

Coleoptera (3)—*Lampyr.*: *Chauliognathus pennsylvanicus* h, e, t, ab; *Scarabae.*: *Euphoria sepulchralis*, h, e, t, ab, *Trichius piger* h.

Hemiptera (2)—*Lygae.*: *Lygaeus* h, *Oncopeltus* h.

Without pollinia (24):—

Birds (1)—*Trochil.*: *Trochilus* n.

Long-tongued Bees (1)—*Megachil.*: *Megachile brevis* ♂ ♀.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♂, n.

Other Hymenoptera (3)—*Eumen.*: *Eumenes fraternus*; *Oxybel.*:

Notoglossa americana; *Pompil.*: *Priocnemoides fulvicornis*.

Diptera (9)—*Bombyli.*: *Sparnopolius* n; *Conop.*: *Conops brachyrrhynchus* n, *Stylogaster biannulata* n; *Tachin.*: *Gymnoprotopa* n, *Ennyomma globosa* n, *Masiphya* n, *Opsidia* n, *Phasiocliata* n, *Spallanzania*.

Lepidoptera (6)—*Nymphal.*: *Phyciodes*; *Hesper.*: *Epargyreus*, *Euphyes verna*, *Pholisora catullus*, *Polites*; *Ctenuch.*: *Scepsis*.

Coleoptera (3, n)—*Buprest.*: *Acmaeodera pulchella*; *Cerambyc.*: *Tetraopes gn*; *Melo.*: *Epicauta vittata gn*, fq.

Asclepias purpurascens (1:213; 13:576).—Blooms May 27–July 15; 36 visitors observed, June 2–28; Mas, R.

With pollinia (14):—

Long-tongued Bees (5)—*Ap.*: *Apis* h; *Megachil.*: *Megachile addenda* ♀, h, *mendica* ♂, h; *Eucer.*: *Tetralonia rosae* ♀, h; *Anthophor.*: *Anthemoessa* ♂ ♀, h, p, fq.

Diptera (2)—*Conop.*: *Physocephala tibialis* h; *Tachin.*: *Spallanzania p*.

Lepidoptera (5, h)—*Nymphal.*: *Argynnis* fq, *Euphydryas*, *Speyeria*, *Vanessa atalanta*, *huntera*; *Hesper.*: *Thorybes pylades*.

Hemiptera (1)—*Lygae.*: *Oncopeltus* h.

Without pollinia (28):—

Birds (1)—*Trochil.*: *Trochilus* n.

Long-tongued Bees (3, ♀)—*Bomb.*: *Bombias separatus*, *Bombus americanorum*, *consimilis*; *Anthophor.*: *Anthophora*.

Short-tongued Bees (4, ♀, n)—*Halict.*: *Augochlora fervida*, *Chloralictus versatus*, *Evylaeus pectoralis*, *Oxystoglossa confusa*, *similis*.

Other Hymenoptera (1)—*Sphec.*: *Priononyx atrata*.

Lepidoptera (13)—*Nymphal.*: *Anosia*; *Lycaen.*: *Chrysophanus*, *Everes*, *Thecla calanus*, *sylvinus*; *Papilion.*: *Euphoides*, *Eurymus*, *Heraclides*, *Jasoniades*, *Laertias*; *Hesper.*: *Euphyes verna*, *Limochores manataaqua*, *taumas*, *Pamphila hobomok*, *Polites*.

Coleoptera (1)—*Cerambyc.*: *Tetraopes gn*, n.

June 19–28, the following 22 species and 58 individuals were taken on the flowers:—

With pollinia (4:14):—

Long-tongued Bees (2:5)—*Ap.*: *Apis* 4; *Anthophor.*: *Anthemoessa* ♀, 1.

Lepidoptera (2:9)—*Nymphal.*: *Argynnis* 6, *Vanessa huntera* 3.

Without pollinia (20:44):—

Birds (1:1)—*Trochil.*: Trochilus 1.

Long-tongued Bees (3:9, ♀)—*Bomb.*: *Bombias separatus* 1;
Anthophor.: *Anthemoessa* 7, *Anthophora* 1.

Short-tongued Bees (4:7, ♀)—*Halict.*: *Augoehlora fervida* 2;
Chloralictus versatus 1, *Evyllaenus pectoralis* 3, *Oxystoglossa similis* 1.

Lepidoptera (9:23)—*Nymphal.*: *Argynnis* 1; *Papilion.*:
Euphocades 3, *Heraclides* 1, *Jasoniades* 5, *Laertias* 3; *Hesper.*:
Euphyes verna 1, *Limochores taumas* 2, *Polites* 2, *Thorybes pylades* 5.

Diptera (2:3)—*Tachin.*: *Trichophora* 2, *Spallanzania* 1.

Hemiptera (1:1)—*Lygae.*: *Oncopeltus* 1.

Asclepias sullivantii (1:210–12; 13:574–5).—Blooms June 10–August 23; 90 visitors observed, June 19–August 20; Mas, R.

With pollinia (25):—

Long-tongued Bees (11)—*Bomb.*: *Bombias auricomus* ♂ ♀, e, p, sp, *seutellaris* ♀ ♀, e, *separatus* ♀ ♀, e, fq, *Bombus americanorum* ♀, h, e, *Psithyrus variabilis* ♀, e, sp, h; *Megachil.*: *Megachile petulans* ♂, e, *Xanthosarus* ♂ ♀, e; *Epeol.*: *Argyroselenis* ♀, p, n, *Epeolus bifasciatus* ♂, p, n; *Eucer.*: *Florilegus* ♂, p, *Melissodes coreopsis* ♀, p.

Other Hymenoptera (4)—*Sphec.*: *Priononyx thomae* h, *Seeliphron* e; *Bembic.*: *Bembix nubillipennis* e; *Ichneumon.*: *Ichneumon flavizonatus*, on antenna, n.

Diptera (3)—*Stratiomy.*: *Stratiomyia meigenii* e, emp; *Conop.*: *Physocephala tibialis* p, *Zodion obliquefasciatum* p.

Lepidoptera (7)—*Nymphal.*: *Anosia* e, h, sp, *Argynnis* e; *Lycacn.*: *Strymon* h, n; *Papilion.*: *Eurymus* e, *Papilio* e; *Hesper.*: *Epargyreus* e, *Limochores manataaqua* e.

Without pollinia, (46):—

Birds (1)—*Trochil.*: Trochilus.

Long-tongued Bees (4)—*Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachilini*: *Megachile generosa* ♂ ♀, ab, *mendica* ♂; *Coelioxysini*: *Coelioxys 8-dentata* ♂ ♀, fq.

Short-tongued Bees (9)—*Halict.*: *Augoehlora viridula* ♀, *Chloralictus pilosus* ♀, *sparsus* ♀, *tegularis* ♂, *versatus* ♂ ♀, *Oxystoglossa pura* ♂ ♀, *confusa* ♂ ♀; *Sphecodini*: *Drepanium* ♂ ♀, fq, *Sphcodes arvensis* ♀.

Other Hymenoptera (12)—*Sphec.*: *Priononyx atrata*; *Bembic.*: *Bembix spinolae*, *Microbembex* fq; *Scoli.*: *Elis 5-cincta*; *Cercer.*: *Cerceris clypeata*, *finitima*; *Philanth.*: *Philanthus punctatus*;

Eumen.: *Leionotus arvensis*; *Crabron.*: *Protothyreopus ruffemur*; *Oxybel.*: *Notoglossa americana*; *Larr.*: *Lyroda*, *Tachytes mandibularis* fq.

Diptera (7)—*Syrph.*: *Tropidia quadrata*; *Tachin.*: *Chaetogaedia analis* (*acroglossoides type*), *Linnaemyia*, *Phorantha humeralis*, *Senotainia rubriventris*, *trilineata*; *Sarcophag.*: *Helicobia helicis*.

Lepidoptera (10)—*Nymphal.*: *Phyciodes*, *Vanessa atalanta*; *Lycaen.*: *Chrysophanus*, *Everes*, *Uranotes*; *Hesper.*: *Euphyes metacomet*, *Limochores taumas*, *Thorybes pylades*; *Sphing.*: *Hemaris axillaris*; *Sesi.*: *Sesia 6-fasciata*.

Coleoptera (1)—*Curculion.*: *Centrinus scutellum album* fq.

Hemiptera (2)—*Caps.*: *Calocoris*; *Pentatom.*: *Podisus*, pred.

The following insects were found entrapped and dead on the flowers (19):

Long-tongued Bees (6)—*Ap.*: *Apis* 671 ♀, 1 ♂; *Megachil.*: *Anthemois* ♂ ♀, c, p, *Megachile addenda* ♂ ♀, *brevis* ♂ ♀, c, *Sayapis pugnata* ♂; *Eucér.*: *Peponapis* ♂.

Short-tongued Bees (3, ♂)—*Halict.*: *Halictus lerouxii* c, p, *Odontalictus*, *Seladonia*.

Other Hymenoptera (3)—*Sphec.*: *Isodontia apicalis* h, c, *Sphex pictipennis* c; *Larr.*: *Astatus bicolor*.

Diptera (4)—*Syrph.*: *Eristalis aeneus* c, *Syritta*; *Bombyli.*: *Sparnopolius*; *Musc.*: *Pseudopyrellia*.

Lepidoptera (2)—*Hesper.*: *Polites* p; *Ctenuch.*: *Scepsis*.

Coleoptera (1)—*Scarabae.*: *Trichius piger* c.

The following 22 species and 140 individuals were taken on the flowers, June 19, 20, 1911:

With pollinia (6:9):—

Long-tongued Bees (2:5)—*Bomb.*: *Bombus americanorum* 3; *Megachil.*: *Xanthosarus* 2.

Diptera (1:1)—*Conop.*: *Physocephala tibialis* 1.

Lepidoptera (3:3)—*Nymphal.*: *Argynnis* 1; *Hesper.*: *Epargyreus* 1, *Limochores manataaqua* 1.

Without pollinia (20:131):—

Long-tongued Bees (4:22)—*Megachil.*: *Megachile brevis* 18, *generosa* 1, *mendica* 1, *Xanthosarus* 2.

Short-tongued Bees (4:86)—*Halict.*: *Chloralictus pilosus* 1, *regularis* 1, *versatus* 83, *Oxystoglossa confusa* 1.

Other Hymenoptera (4:7)—*Sphec.*: *Priononyx atrata* 1; *Bembic.*: *Bembix nubillipennis* 1, *spinolae* 1; *Larr.*: *Tachytes mandibularis* 4.

Lepidoptera (8:16)—*Nymphal.*: *Argynnis* 2, *Phyciodes* 1; *Lycaen.*: *Uranotes* 1; *Hesper.*: *Epargyreus* 1, *Euphyes metacomet* 1, *Limochores manataaqua* 8, *Thorybes pylades* 1; *Sphing.*: *Hemaris axillaris* 1.

Asclepias syriaca (1: 209-10; 13: 572-4).—Blooms June 1-August 15; 99 visitors observed, June 7-August 7; Mas, R.

With *pollinia* (60):—

Long-tongued Bees (15)—*Bomb.*: *Bombias separatus* ♀ ♂, t; *Megachil.*: *Megachile* *generosa* ♂, t, *petulans* ♀, t; *Coelioxysi*: *Coelioxys* *8-dentata* ♂ ♀, e, n; *Epeol.*: *Epeolus* *bifasciatus* ♂, p, n, *Triepeolus remigatus* ♂, p; *Eucer.*: *Florilegus* ♂ ♀, p, g, *Melissodes agilis* ♂, p, *comptoides* ♂, p, *petalostemonis* ♀, p, *Peponapis* ♂ ♀, h, p, t, fq, *Tetralonia dilecta* ♀, p, *rosae* ♀, h, *Xenoglossa* ♀, p; *Anthophor.*: *Anthomoessa* ♂, p.

Short-tongued Bees (6)—*Halict.* (n): *Agapostemon radiatus* ♂, p, *Haliectus lerouxii* ♂, p, *Seladonia* ♀, e; *Sphceodini*: *Proteraner* ♂, p; *Collet.*: *Colletes latitarsis* ♂, p, lp, *nudus* ♀, p.

Other Hymenoptera (12)—*Sphec.*: *Ammobia ichneumonea* h, *Priononyx atrata* p, fq, *thomae* h; *Bembic.*: *Bembix nubillipennis* h, *Stietia* p; *Scoli.*: *Campsomeris* h, e, *Elis obscura* p, *5-cincta* h, *Scolia bicincta* h; *Philanth.*: *Cereceris bicornuta* h; *Eumen.*: *Leionotus arvensis* h; *Larr.*: *Tachytes mandibularis* h.

Diptera (14)—*Syrph.*: *Eristalis dimidiatus* p, t, *Mallota cimbiciformis* p, t, *illinoensis* p, *Syritta* p, *Tropidia mamillata* p, *quadrata* h; *Mida.*: *Midas clavatus* t; *Conop.*: *Physocephala texana* p; *Tachin.*: *Archytas analis* p, *Belvosia bifasciata* p, *unifasciata* p, *Linnaemyia* p, *Trichopoda plumipes* p, t; *Anthomy.*: *Hyetodosia* p.

Lepidoptera (8)—*Nymphal.*: *Anosia* h, *Argynnis* h, *Euvanessa* h, c, *Polygonia interrogationis* h, t, *Vanessa atalanta* h; *Hesper.*: *Achalarus* h; *Sphing.*: *Choerocampa* h; *Ctenuch.*: *Seepsis* h.

Coleoptera (1)—*Lampyr.*: *Photinus* h.

Hemiptera (4)—*Lygae.*: *Lygaeus* h, p, e, *Oncopeltus* h; *Pentatom.*: *Euschistus variolarius* h, *Podisus* p, pred, n.

Without *pollinia* (31):—

Long-tongued Bees (4)—*Bomb.*: *Bombias auricomus* ♀, *Bombus americanorum* ♀; *Megachil.*: *Megachile brevis* ♀; *Eucer.*: *Epimelissodes obliqua* ♂.

Short-tongued Bees (1)—*Halict.*: *Augochlora viridula* ♀, n.

Other Hymenoptera (2)—*Sphec.*: *Seeliphron*; *Philanth.*: *Cereceris clypeata*.

Diptera (5, n)—*Culic.*: *Culex stimulans*; *Stratiomy.*: *Odonatomyia cincta*; *Bombyli.*: *Anthrax sinuosa*; *Conop.*: *Stylogaster biannulata*; *Tachin.*: *Cistogaster occidua*.

Lepidoptera (13)—*Nymphal.*: Basilarchia archippus, Speyeria; *Lycaen.*: Chrysophanus, Thecla calanus; *Papilion.*: Eurymus, Laertias, Papilio; *Hesperi.*: Epargyreus, Limochores taumas, Pholisora catullus, Polites; *Pyraust.*: Loxostege.

Coleoptera (4, n)—*Cerambyc.*: Tetraopes gn; *Elater.*: Melanotus gn; *Scarabae.*: Macroductylus gn, Trichius piger.

Hemiptera (2, n)—*Caps.*: Lygus; *Reduvi.*: Sinea.

The following visitors were found dead on the flowers (8):—

Long-tongued Bees (1)—*Ap.*: Apis ab, p, t.

Diptera (4)—*Tachin.*: Spallanzania p; *Sarcophag.*: Sarcophaga cimbicis p; *Musc.*: Pseudopyrellia, Stomoxys.

Lepidoptera (3)—*Arcti.*: Callimorpha p; *Noctu.*: Drasteria erectea h, Agrotis.

Asclepias tuberosa (1: 212-13; 13: 575-6).—Blooms June 6-September 5; 29 visitors observed, June 14-August 17; Mas, Y.

With pollinia (19):—

Long-tongued Bees (5)—*Ap.*: Apis h; *Stelid.*: Anthidium cognatum ♂, h; *Megachil.*: Coelioxys 8-dentata ♀, h, c; *Eucer.*: Melissodes petalostemonis ♀, h, variabilis ♂, h.

Short-tongued Bees (1)—*Halict.*: Augochlora fervida ♀, c, fq.

Other Hymenoptera (4, h)—*Sphec.*: Ammobia ichneumonea, Priononyx thomae, Spheg nigricans, procera ab.

Diptera (1)—*Tachin.*: Spallanzania h.

Lepidoptera (8, h)—*Nymphal.*: Argynnis, Speyeria; *Papilion.*: Euphoades, Eurymus, Laertias, Papilio, Pontia; *Ctenuch.*: Scopsis.

Without pollinia (10):—

Birds (1)—*Trochil.*: Trochilus n.

Long-tongued Bees (2)—*Megachil.*: Cyphopyga ♀, Megachile brevis ♂ ♀.

Other Hymenoptera (1)—*Sphec.*: Priononyx atrata.

Lepidoptera (6)—*Nymphal.*: Anosia, Phyciodes; *Lycaen.*: Chrysophanus, Everes, Strymon; *Papilion.*: Jasoniades.

Asclepias verticillata (1: 207-8; 13: 569-71).—Blooms June 26-September 4; 131 visitors observed, June 26-August 21; Pol, W.

With pollinia (71):—

Long-tongued Bees (10)—*Ap.*: Apis h; *Bomb.*: Bombias separatus ♂ ♀ ♂, h, fq, Bombus impatiens ♀, h, Psithyrus laboriosus; ♀, h; *Ceratin.*: Ceratina ♀, h, c, p, fq; *Megachil.*: Trypetini: Neotrypetes barbatus ♀, p, type; Megachilini: Megachile brevis ♂ ♀, h, t, fq; Coelioxyni: Coelioxys 8-dentata ♂, h; *Epeol.*: Triepeolus concolor ♂, h; *Eucer.*: Melissodes bimaculata ♂ ♀, h, t, fq.

Short-tongued Bees (10)—*Halict.*: *Augochlora fervida* ♂ ♀, h, *Chloralictus pilosus* ♀, mp, *versatus* ♂ ♀, p, *Curtisapis forbesii* ♂, lp, *Evyllaes pectoralis* ♀, h, *Halictus lerouxii* ♂ ♀, h, c, t, *Seladonia* ♂ ♀, h, p, ab; *Sphecodini*: *Machaeris stygia* ♀, h, *Sphecodes arvensis* ♂, h, t; *Prosopid.*: *Prosopis ziziae* ♀, p.

Other Hymenoptera (32)—*Sphec.* (h): *Ammobia ichneumonea* fq, *pennsylvanica*, *Isodontia apicalis*, *Priononyx thomae*; *Bembic.*: *Bembix numbilipennis* h; *Scoli.*: *Elis obscura* h, 5-cincta h, t, fq, *Scolia bicincta* h; *Philanth.*: *Cerceris bicornuta* h, ab, clypeata h, c, fq, compacta h, c, fq, *raui* h, *fulvipes* h, *robertsonii* h; *Vesp.*: *Polistes variatus* h; *Eumen.*: *Eumenes fraternus* h, c, t, *Leionotus anormis* h, t, ab, *arvensis* h, fq, *foraminatus* h; *Crabron.*: *Anacrabo* c, p, *Protothyreopus rufifemur* h, p, fq; *Larr.* (h): *Astatus unicolor*, *Tachytes distinctus*, *elongatus*, *mandibularis*, *pepticus* fq; *Pompil.* (h): *Anoplius illinoensis*, *Batizonus*, *Lophopompilus philadelphicus*, *Priocnemoides fulvicornis*, *terminatus*; *Tenthredin.*: *Hylotoma humeralis* h.

Diptera (16)—*Syrph.*: *Eristalis latifrons* h, *Syritta* c, *Tropidia quadrata* h; *Mida.*: *Midas clavatus* h; *Conop.*: *Physocephala texana* h, *tibialis* h; *Tachin.*: *Archytas analis* h, *Clytiomyia* h, t, *Linnaemyia* h, t, *Ocyptera tenuis* h, t, *Spallanzania* h, c, p, t, *Xanthomelana* t, n, *Senotainia trilineata* t, fq, n; *Musc.*: *Compsomyia* c, t, *Phormia regina* c, *Pseudopyrellia* h, c, t.

Lepidoptera (3, h)—*Nymphal.*: *Anosia*; *Hesper.*: *Pholisora hayhurstii*, *Polites*.

Without pollinia (60):—

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

Short-tongued Bees (4)—*Halic.*: *Agapostemon radiatus* ♀, *Chloralictus albipennis* ♂, *sparsus* ♀; *Sphecodini*: *Sphecodium cressonii* ♂.

Other Hymenoptera (9)—*Sphec.*: *Priononyx atrata*, *Seeliphron*, *Sphex nigricans*; *Scoli.*: *Elis interrupta*; *Philanth.*: *Cerceris finitima*; *Crabron.*: *Solenius*; *Oxybel.*: *Notoglossa frontalis*; *Formici.*: *Formica rufibarbis*; *Chrysid.*: *Holopyga*.

Diptera (29 n)—*Syrph.*: *Allograpta*, *Eristalis transversus*, *Mesogramma marginata*, *polita*, *Orthoneura nitida*, *Paragus bicolor*, *Sphaerophoria*; *Empid.*: *Parempis*; *Bombyli.*: *Exoprosopa fasciata*, *Systoechus*; *Conop.*: *Conops brachyrrhynchus*; *Tachin.*: *Cistogaster oecidua*, *Exorista confinis*, *Gymnoprosopa*, *Ennyomma globosa*, *Paradidyma*, *Phoranthia purpurascens*, *Senotainia rubriventris*, *Siphoplusia anomala*, *flaccidirostris*, *Trichopoda pennipes*, *Trichophora*; *Sarcophag.*: *Helicobia helicis*, *Sarcophaga sinuata*;

Musc.: Graphomyia, Lucilia sylvarum; *Anthomy.*: Calythea, Limnophora; *Seps.*: Sepsis.

Lepidoptera (13)—*Nymphal.*: Argynnis, Phyciodes, Vanessa atalanta; *Lycaen.*: Chrysophanus, Everes; *Papilion.*: Eurymus, Heraclides, Pieris; *Hesper.*: Achalarus, Euphyes verna, Limochores taumas, Pholisora catullus; *Ctenuch.*: Scepis.

Coleoptera (3 n)—*Cerambyc.*: Typocerus sinuatus; *Rhipiphor.*: Rhipiphorus limbatus; *Scarabae.*: Trichius piger.

Hemiptera (1)—*Phymat.*: Phymata, pred, n.

Gonolobus laevis (8:108-10)—Blooms July 12–August 23; 22 visitors observed, July 14–August 23; Mis, W.

With pollinia on proboscides (14):—

Long-tongued Bees (1)—*Eucer.*: Epimelissodes atripes ♀.

Short-tongued Bees (4, ♂ ♀)—Chloralictus sparsus ab, tegularis, versatus ab, zephyrus ab.

Other Hymenoptera (4)—*Sphec.*: Ammobia nuda; *Scoli.*: Elis interrupta, 5-cincta fq; *Vesp.*: Polistes variatus.

Diptera (5)—*Bombyli.*: Anthrax fulvohirta; *Conop.*: Conops xanthopareus; *Tachin.*: Alopophora aeneoventris, Panzeria; *Musc.*: Lucilia sericata.

Without pollinia (8):—

Short-tongued Bees (6)—*Halict.*: Augochlora viridula ♂ ♀, Chloralictus illinoensis ♂, Paralictus cephalicus ♀, platyparius ♀; *Prosopid.*: Prosopis illinoensis ♀, pygmaea ♂.

Other Hymenoptera (1)—*Eumen.*: Leonotus ziziae.

Diptera (1)—*Empid.*: Parempis n.

BALSAMINACEAE

Impatiens biflora (2:300-1)—Blooms June 19–September 20; 11 visitors observed, July 30–September 12; Ma, R.

Birds (1)—*Trochil.*: Trochilus fq.

Long-tongued Bees (6)—*Ap.*: Apis sc; *Bomb.*: Bombus americanorum ♂ ♀, impatiens ♀, sc; *Megachil.* (♀, c, n): Megachile brevis, mendica; *Eucer.*: Melissodes bimaculata ♀.

Short-tongued Bees (2, ♀, c, n)—*Halict.*: Chloralictus versatus, Oxytroglossa confusa.

Lepidoptera (1)—*Papilion.*: Euphoades.

Coleoptera (1)—*Chrysomel.*: Diabrotica 12-punctata gn, n.

Impatiens pallida (2:301-2)—Blooms June 11–September 17; 6 visitors observed, July 23–September 17; Ma, Y.

Birds (1)—*Trochil.*: Trochilus.

Long-tongued Bees (4)—*Bomb.*: *Bombus americanorum* ♂ ♀, ab, impatiens ♀, se, ab; *Megachil.*: *Megachile brevis* ♀, c, n.
 Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, n.
 Diptera (1)—*Syrph.*: *Rhingia* sf, n.

BERBERIDACEAE

Caulophyllum thalictroides (9: 154-5).—Blooms April 23–May 7; 29 visitors observed, April 23–May 3; Mi, Y.

Long-tongued Bees (3, ♀)—*Bomb.*: *Bombias separatus*, *Bombus impatiens*, *ridingsii*.

Short-tongued Bees (8, ♀)—*Halict.*: *Augochlora viridula*, *Chloralictus sparsus* se, *versatus* se, *Curtisapis coriacea*, *Evyllaes 4-maculatus*, *Halictus lerouxii*, *Oxystoglossa confusa*, *pura*.

Other Hymenoptera (6)—*Scelion.*: *Prosacantha* n; *Bracon.*: *Bracon trifolii*, *vernoniae*, *Daenusa*, *Microgaster* ab, *Opius ruficeps*.

Diptera (9)—*Mycetophil.*: *Dynatosoma thoracicum* n, *type*; *Syrph.*: *Chilosia petulea*, *Melanostoma obscurum*, *Rhingia*; *Empid.*: *Rhamphomyia piligeronis*; *Musc.*: *Morellia*; *Anthomy.*: *Hylemyia plumosa*, *type*, *Mydaea socialis*; *Oscin.*: *Chlorops assimilis*.

Coleoptera (3)—*Anthic.*: *Corphyra terminalis*; *Curculion.*: *Idiostethus subcalvus*; *Mordell.*: *Mordellistena biplagiata* n.

Podophyllum peltatum (9: 155-6).—Blooms April 14–May 21; 5 species and 8 individuals observed, April 25–May 14; Ma, W.

Long-tongued Bees (5)—*Ap.*: *Apis* c, 1; *Bomb.* (♀): *Bombias separatus* 1, *Bombus americanorum* 3, *impatiens* 1; *Eucer.*: *Tetralonia dilecta* ♂, 2.

BIGNONIACEAE

Tecoma radicans.—Blooms June 8–September 10; 3 visitors observed, July 21, August 6; Ma (O), R.

Birds (1)—*Trochil.*: *Trochilus* ab.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀, c, ab, n.

Short-tongued Bees (1)—*Halict.*: *Chloralictus zephyrus* ♀, c, n.

Extra-floral nectaries.—Sixteen visitors observed, July 20, 21.

Ants (4, ♀)—*Formic.*: *Formica fusca* 13, *schaufussi* 3, *Tapinoma* 2; *Myrmic.*: *Cremastogaster* ab, day and night.

Short-tongued Bees (3)—*Halict.*: *Chloralictus sparsus* ♀, 6, *versatus* ♀, 20, *zephyrus* ♂ ♀, 7.

Diptera (9)—*Syrph.*: *Syritta* 1; *Sarcophag.*: *Helicobia helieis* 1, *Sarcophaga assidua* 1, *cimbicis* 2; *Musc.*: *Lueilia sericata* 1, *Musca* 1, *Stomoxys* 1; *Agromyz.*: *Milichhiella* 11; *Ortal.*: *Camptoneura* fq.

BORANGINACEAE

Cynoglossum officinale (int).—One visitor observed, June 11; Ma, R.

Long-tongued Bees (1)—*Megachil.*: *Megachile brevis* ♀.

Lappula virginiana.—Blooms July 5–September 9, 4 visitors observed, July 15, 22, 27; Mi, W.

Short-tongued Bees (3, ♀)—*Halict.*: *Chloralictus sparsus, versatus, Seladonia*.

Diptera (1)—*Syrph.*: *Syritta* fq.

Lithospermum canescens (8: 144–6).—Blooms March 18–June 12; 37 visitors observed, April 18–June 5; Ma, Y.

Long-tongued Bees (17)—*Ap.*: *Apis*; *Bomb.* (♀): *Bombias scutellaris*, *Bombus americanorum* ab, *impatiens*; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Osmia atriventris* ♂ ♀, sc, fq, *illinoensis* ♂ ♀, sc, ab, *cordata* ♂, *distincta* ♀, sc; *Nomad.*: *Gnathias ovatus* ♀, *Heminomada* ♂, *Holonomada superba* ♂; *Melect.*: *Bombomlecta* ♂ ♀, ab; *Eucер.*: *Tetralonia belfragei* ♂, *dilecta* ♂ ♀, ab, in cop, *illinoensis* ♂, *type*; *Anthophor.*: *Anthophora* ♂, fq.

Diptera (2)—*Bombyli.*: *Bombylius atriceps, major* fq.

Lepidoptera (18)—*Nymphal.*: *Anosia* fq, *Charidryas*, *Phyciodes*, *Vanessa atalanta, cardui, huntera*; *Lycaen.*: *Chrysophanus*; *Papilion.*: *Eurymus* ab, *Iphioides* fq, *Papilio*, *Pieris*; *Hesper.*: *Pholisora catullus, Thanaos brizo, icelus* fq, *juvenalis, martialis, persius*; *Noctu.*: *Plusia simplex*.

Mertensia virginica (13: 580–1).—Blooms March 31–May 25; 28 visitors observed, April 8–May 13; Ma, R.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (16)—*Ap.*: *Apis* c; *Bomb.* (♀): *Bombias auricomus, separatus, Bombus americanorum* fq, *consimilis, ridingsii*; *Megachil.*: *Centrosmia* ♂ ♀, sc, fq, *Ceratostmia* ♂ ♀, *Osmia atriventris* ♂ ♀, sc, *pumila* ♀, sc; *Nomad.*: *Xanthidium dentariae* ♂; *Eucер.*: *Tetralonia belfragei* ♂ ♀, sc, fq, *dilecta* ♂ ♀, fq, in cop, *dubitata* ♂, fq; *Anthophor.*: *Anthemoessa* ♂ ♀, *Anthophora* ♂ ♀, fq.

Short-tongued Bees (2, ♀, n)—*Halict.*: *Chloralictus versatus, Oxystoglossa confusa*.

Diptera (3)—*Syrph.*: *Rhingia* sf, *Teuchoenemis* f, n; *Bombyli.*: *Bombylius major*.

Lepidoptera (6)—*Nymphal.*: *Anosia, Vanessa atalanta*; *Papilion.*: *Euphœades*; *Hesper.*: *Thanaos juvenalis*; *Sphing.*: *Deilephila, Hemaris thysbe*.

Myosotis virginica.—Blooms April 27–June 9; 2 visitors observed, May 21, 24; Mi, W.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa confusa* ♀.

Lepidoptera (1)—*Papilion.*: *Pontia*.

CAMPANULACEAE

Campanula americana (4: 70).—Blooms July 1–October 6; 20 visitors observed, July 10–October 4; Ma, R.

Long-tongued Bees (9)—*Ap.*: *Apis*; *Bomb.*: *Bombias separatus* ♂, *Bombus americanorum* ♂ ♀, fq, *impatiens* ♂ ♀; *Megachil.*: *Megachilini*: *Megachile brevis* ♂ ♀, *petulans* ♀, c, *Oligotropus campanulae* ♂ ♀, se, *oligolege*, *type*; *Coelioxyni*: *Coelioxys modesta* ♀; *Eucer.*: *Melissodes bimaculata* ♂ ♀.

Short-tongued Bees (7)—*Halict.*: *Agapostemon radiatus* ♂ ♀, *Chloralictus sparsus* ♀, c, n, *Curtisapis coriacea* ♂ ♀, *Halictus lerouxii* ♂, *Oxystoglossa confusa* ♀, c, n; *Prosopid.*: *Prosopis ziziae* ♀, f, n; *Collet.*: *Colletes latitarsis* ♀, n.

Other Hymenoptera (1)—*Scoli.*: *Elis 5-cincta*.

Diptera (1)—*Syrph.*: *Pipiza nigribarba* f, n.

Lepidoptera (2)—*Nymphal.*: *Vanessa cardui*; *Hesperid.*: *Pholisora hayhurstii*.

Specularia perfoliata.—Blooms May 18–June 29; 17 visitors observed, May 29–June 29; Mi, R.

Long-tongued Bees (3, ♀)—*Bomb.*: *Bombias separatus*, *Bombus americanorum*; *Ceratin.*: *Ceratina*.

Short-tongued Bees (6)—*Halict.* (♀): *Augochlora fervida*, *Chloralictus versatus* se, *Oxystoglossa confusa*, *similis* se, fq, *Selandonia*; *Collet.*: *Colletes brevicornis* ♂ ♀, se, ab, *oligolege*.

Other Hymenoptera (1)—*Eumen.*: *Leionotus foraminatus*.

Diptera (4)—*Syrph.*: *Mesogramma marginata* f, n; *Bombyli.*: *Anthrax sinuosa* f, n; *Conop.*: *Oncomyia*, *Stylogaster biannulata*.

Lepidoptera (3)—*Lycaen.*: *Everes*; *Papilion.*: *Pieris*; *Hesperid.*: *Pholisora hayhurstii*.

CAPRIFOLIACEAE

Lonicera sempervirens (cult, 10:241).—Ma (0), R.

Birds (1)—*Trochil.*: *Trochilus* ab.

Lonicera sullivantii (10:241–4).—Blooms May 15–June 7; 5 visitors observed, May 17–27; Ma, Y.

Birds (1)—*Trochil.*: *Trochilus* fq.

Long-tongued Bees (3, ♀)—*Bomb.*: *Bombus americanorum*, *impatiens* fq; *Anthophor.*: *Anthophora* se, fq.

Diptera (1)—*Syrph.*: *Pipiza femoralis* f, n.

Sambucus canadensis (5:274-5).—Blooms May 27–August 9; 32 visitors observed, June 7–July 11; Pol (Mis), W. All visits are for pollen.

Long-tongued Bees (2, c).—*Ap.*: *Apis* fq; *Ceratin.*: *Ceratina* ♀.

Short-tongued Bees (6, ♀, c).—*Halict.*: *Chloralictus sparsus* ab, *versatus* ab, *zephyrus* ab, *Evylaeus arcuatus*, *Halictus parallelus*; *Andren.*: *Trachandrena claytoniae*.

Diptera (19, f).—*Syrph.*: *Allograpta* fq, *Baccha fuscipennis*, *Eristalis dimidiatus*, *tenax*, *Mallota cimbiciformis* fq, *Mesogramma geminata*, *marginata*, *Orthoneura nitida* ab, *Spilomyia hamifera* fq, *Syritta*, *Syrphus americanus*, *ribesii* fq, *Xylota fraudulosa*; *Bombyli.*: *Anthrax sinuosa*, *Argyramoeba oedipus*; *Musc.*: *Musca*, *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*, *platūra*.

Coleoptera (5, f).—*Cerambyc.*: *Euderces*; *Dermest.*: *Attagenus* fq; *Malach.*: *Anthocomus*; *Mordell.*: *Pentaria*; *Scarabae.*: *Euphoria fulgida*.

108 individuals taken on the flowers, July 8–10, 1920, showed:

Long-tongued Bees (4, c).—*Apidae*.

Short-tongued Bees (68, ♀, c).—*Halictidae*.

Diptera (32, f).—*Syrphidae* 31, *Anthomyidae* 1.

Coleoptera (4, f).

Symphoricarpus orbiculatus (16:173-4).—Blooms July 6–September 10; 120 visitors observed, July 8–August 30; Mis, Y.

Long-tongued Bees (10).—*Ap.*: *Apis* ab; *Bomb.*: *Bombias separatus* ♀ ♀, *Bombus americanorum* ♀, *se*, *consimilis* ♀, *se*, *impatiens* ♀ s, ♀ *se*, fq; *Megachil.*: *Megachilini*: *Megachile mendica* ♂ ♀, *Oligotropus* ♂; *Coelioxyni*: *Coelioxys 8-dentata* ♂, *sayi* ♂ ♀; *Eucer.*: *Melissodes bimaculata* ♂.

Short-tongued Bees (27).—*Halict.*: *Agapostemon radiatus* ♂ ♀, ab, *Augochlora fervida* ♀, *viridula* ♂ ♀, ab, *Chloralictus coreopsis* ♀, *ressonii* ♂ ♀, fq, *obscurus* ♂ ♀, ab, *sparsus* ♂ ♀, *se*, ab, *tegularis* ♂ ♀, fq, *versatus* ♀, *se*, ab, *zephyrus* ♂ ♀, ab, *Curtisapis coriacea* ♂ ♀, *forbesii* ♂ ♀, *Evylaeus foxii* ♀, *pectoralis* ♂ ♀, fq, *4-maculatus* ♂ ♀, *Halictus lerouxii* ♂ ♀, ab, *parallelus* ♂ ♀, *Odontalictus* ♀, *Oxystoglossa confusa* ♂ ♀, ab, *pura* ♂ ♀, ab, *similis* ♂ ♀, ab, *Seladonia* ♂ ♀; *Sphecodini*: *Sphecodes arvensis* ♂ ♀, ab, *heraclei* ♂ ♀; *Prosopid.* (♂ ♀): *Prosopis sayi*, ab, *ziziae* fq; *Collet.*: *Colletes nudus* ♂ ♀.

Other Hymenoptera (43).—*Sphec.*: *Ammobia ichneumonea*, *nuda*, *pennsylvanica*, *Isodontia apicalis*, *macrocephala*, *Sphex gracilis*, *nigricans* fq, *vulgaris* fq; *Bembic.*: *Bicyrtes 4-fasciata*, *Megastizus*; *Scoli.*: *Elis obscura*, *5-cincta* fq, *Scolia bicincta*; *Philanth.*:

Cerceris clypeata fq, *compacta*, *fumipennis*, *Philanthus punctatus* fq; *Vesp.*: *Polistes annularis*, *pallipes*, *variatus*; *Eumen.*: *Ancistrocerus tigris*, *Eumenes fraternus* ab, *Leionotus anormis*, *arvensis*, *dorsalis*, *foraminatus* ab, *fulvipes*, *histrionalis*, *illinoensis* fq, *megaera*, *perennis*, *4-sectus*, *serophulariae*, *ziziae*, *Monobia*, *Zethus*; *Oxybel.*: *Notoglossa frontalis*; *Larr.*: *Notogonidea*, *Tachytes aurlentus*; *Pompil.*: *Episyron*, *Lophopompilus philadelphicus* fq, *Poecilopompilus navus*, *Priocnemoides unifasciatus*.

Diptera (37)—*Culic.*: *Aedes*; *Stratiomy.*: *Nemotelus*, *Stratiomyia meigenii*; *Syrph.*: *Eristalis tenax*, *transversus*, *Helophilus laetus*, *Mallota cimbiciformis*, *Mesogramma geminata* ab, *marginata*, *Milesia*, *Orthoneura nitida* ab, *Pipiza nigribarba*, *Spilomyia longicornis*, *Syritta* ab, *Tropidia albistylum*, *quadrata*; *Empid.*: *Parempis* ab; *Bombyli.*: *Exoprosopa fascipennis*; *Conop.*: *Conops xanthopareus*, *Oncomyia*; *Tachin.*: *Archytas analis* fq, *aterrima*, *Belvosia bifasciata*, *unifasciata*, *Cyphocera*, *Linnaemyia*, *Ocyptera dosiades*, *tenuis*, *Phorantha magna*, *Siphona*, *Spallanzania*, *Trichopoda penripes*, *Trichophora*, *Xanthomelana*; *Musc.*: *Compsomyia*, *Lucilia caesar*, *Pseudopyrellia* fq.

Lepidoptera (1)—*Lycaen.*: *Cyaniris*.

Coleoptera (2)—*Mordell.*: *Mordella marginiata*, *Mordellistena pubescens*.

On seven days, July 13–27, 1909, the following 87 species and 1,052 individuals were taken on the flowers:

Long-tongued Bees (6:21)—*Ap.*: *Apis* 12; *Bomb.*: *Bombias separatus* 1, *Bombus consimilis* 1, *impatiens* 5; *Megachil.*: *Oligotropus* 1; *Eucer.*: *Melissodes bimaculata* 1.

Short-tongued Bees (25:781)—*Halict.*: *Agapostemon radiatus* 26, *Augoehlora fervida* 1, *viridula* 73, *Chloralictus coreopsis* 1, *eressonii* 7, *obscurus* 29, *sparsus* 220, *tegularis* 6, *versatus* 69, *zephyrus* 17, *Curtisapis forbesii* 2, *Evylaeus foxii* 1, *pectoralis* 9, *4-maculatus* 3, *Halictus lerouxii* 15, *paralellus* 4, *Oxystoglossa confusa* 84, *pura* 22, *similis* 163, *Seladonia* 2; *Sphecodini*: *Sphecodes arvensis* 2, *heraclei* 1; *Prosopid.*: *Prosopis sayi* 16, *ziziae* 6; *Collet.*: *Colletes nudus* 2.

Other Hymenoptera (30:104)—*Sphec.*: *Ammobia ichneumonea* 2, *pennsylvanica* 1, *Isodontia apicalis* 1, *Sphex gracilis* 2, *nigricans* 4, *vulgaris* 4; *Scoli.*: *Elis obscura* 1, *5-cincta* 3, *Scolia bicincta* 3; *Philanth.*: *Cerceris clypeata* 5, *compacta* 2, *fumipennis* 1, *Philanthus punctatus* 3; *Vesp.*: *Polistes pallipes* 2, *variatus* 1; *Eumen.*: *Ancistrocerus tigris* 1, *Eumenes fraternus* 15, *Leionotus arvensis* 3, *foraminatus* 31, *fulvipes* 3, *histrionalis* 1, *perennis* 1, *4-sectus* 2, *serophulariae* 1, *Monobia* 2, *Zethus* 2; *Larr.*: *Notogonidea* 1,

Tachytes aurulentus 1; *Pompil.*: *Episyron* 1, *Lophopompilus philadelphicus* 4.

Diptera (24:141)—*Stratiomy.*: *Nemotelus* 1; *Syrph.*: *Eristalis tenax* 1, *transversus* 1, *Helophilus laetus* 1, *Mesogramma geminata* 15, *marginata* 3, *Milesia* 1, *Orhoneura nitida* 20, *Pipiza nigribarba* 1, *Spilomyia longicornis* 1, *Syritta* 10, *Tropidia albistylum* 1, *quadrata* 2; *Empid.*: *Parempis* 54; *Conop.*: *Oncomyia* 1; *Tachin.*: *Archytas analis* 6, *Cyphocera* 1, *Siphona* 1, *Spallanzania* 1, *Trichopoda pennipes* 4, *Trichophora* 2; *Musc.*: *Compsomyia* 4, *Lucilia caesar* 4, *Pseudopyrellia* 5.

Coleoptera (2:5)—*Mordell.*: *Mordella marginata* 4, *Mordellistena pubescens* 1.

Triosteum perfoliatum (4:65).—Blooms May 3–June 17, 7 visitors observed, May 18, 23, June 3; Ma, R.

Long-tongued Bees (5)—*Bomb.* (♀): *Bombus americanorum*, *consimilis* ab, *ridingsii*; *Anthophor.*: *Anthemoessa* ♂; *Ceratin.*: *Ceratina* ♀, n.

Short-tongued Bees (2, ♀, n)—*Halict.*: *Halictus lerouxii* c, *Oxystoglossa confusa* sc.

Viburnum prunifolium (10:237–8).—Blooms April 9–May 16; 83 visitors observed, April 24, May 8; Mis, W.

Long-tongued Bees (11)—*Ap.*: *Apis* sc; *Ceratin.*: *Ceratina* ♂; *Megachil.*: *Ceratostmia* ♀, *Osmia pumila* ♀; *Nomad.*: *Gnathias cuneatus* ♂, *ovatus* ♂, *Heminomada* ♂, *Nomada cressonii* ♂, fq, *illinoensis* ♂, *sayi* ♀, fq; *Eucer.*: *Tetralonia dilecta* ♂ ♀.

Short-tongued Bees (27)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus cressonii*, *pilosus* sc, *sparsus* sc, ab, *tegularis* sc, *versatus* sc, ab, *Evylaeus foxii* sc, *pectoralis* sc, ab, *Halictus lerouxii* sc, *Oxystoglossa confusa* sc, fq; *Sphecodini*: *Machaeris stygia*, *Proteraner*, *Sphecodes arvensis* fq, *Sphecodium cressonii*; *Collet.*: *Colletes inaequalis* ♂; *Andren.*: *Andrena carlini* ♀, *dunningii* ♀, *erythrogastra* ♂, *pruni* ♂ ♀, sc, fq, in cop, *sayi* ♂ ♀, sc, fq, *Opan-drena cressonii* ♂ ♀, sc, fq, *miserabilis* ♂ ♀, sc, ab, *personata* ♂ ♀, ab, *Trachandrena claytoniae* ♀, sc, *forbesii* ♀, sc, *hippotes* ♀, sc, *rugosa* ♂.

Other Hymenoptera (2)—*Vesp.*: *Polistes pallipes*; *Eumen.*: *Ancistrocerus tigris*.

Diptera (36)—*Stratiomy.*: *Stratiomyia quaternaria* fq; *Syrph.*: *Brachyopa*, *Chilosia capillata* fq, *petulea*, *punctulata*, *Chrysogaster ontario*, *Criorhina decora*, *umbratilis*, *Eristalis aeneus* fq, *dimidiatus*, *transversus*, *Helophilus latifrons*, *Mesogramma geminata*, *marginata*, *Myiolepta strigilata* fq, *Orhoneura pictipennis*, *Paragus*

bicolor, Psilota, Syrretta; *Empid.*: *Empis nuda*, *otiosa* fq, *Rhamphomyia mutabilis*, *priapululus*, *sordida*; *Bombyli.*: *Bombylius major*, *pulehellus*; *Conop.*: *Myopa vesiculosa* fq, in cop; *Tachin.*: *Archytas analis*, *Gonia capitata*, *Gymnosoma*, *Peleteria* fq; *Musc.*: *Graphomyia*, *Lucilia caesar*, *sericata* fq, *Phormia regina*, *Pseudopyrellia*.

Lepidoptera (7)—*Nymphal.*: *Charidryas*, *Vanessa huntera*; *Lycaen.*: *Cyaniris*, *Uranotes*; *Hesperi.*: *Thanaos juvenalis* fq, *martialis*; *Sphinx.*: *Hemaris thysbe*.

Viburnum pubescens (10: 236-7; 16: 171-2).—Blooms May 2-25; 71 visitors observed, May 4-20; Mis, W.

Long-tongued Bees (5)—*Bomb.*: *Bombus separatus* ♀, *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♀, se; *Megachil.*: *Osmia pumila* ♀; *Eucer.*: *Tetralonia dilecta* ♂.

Short-tongued Bees (21)—*Halict.* (♀): *Chloralictus cressonii* se, *versatus* se, *Curtisapis coriacea*, se, *Evylaeus foxii* se, *pectoralis* se, fq, †-*maculatus*, *Oxystoglossa confusa* se; *Prosopid.*: *Prosopis illinoensis* ♀, *pygmaea* ♀, *ziziae* ♂; *Andren.*: *Andrena carlini* ♀, se, *mandibularis* ♀, se, fq, *salictaria* ♀, *sayi* ♀, se, fq, *Opandrena cressonii* ♂ ♀, se, ab, *personata* ♂, fq, *serotina* ♀, se, fq, *Trachandrena claytoniae* ♀, se, ab, *forbesii* ♀, se, *nuda* ♀, se, *rugosa* ♀, se, fq.

Diptera (26)—*Syrph.*: *Chilosia capillata*, *Criorhina decora*, *umbratilis* fq, *Mesogramma geminata*, *Syrretta*, *Volucella vesiculosa*, *Xylota chalybea*; *Empid.*: *Empis avida*, *compta*, *distans* fq, *humilis* fq, *levicula*, *nuda*, *otiosa*, *Pachymeria* fq, *Rhamphomyia angustipennis*, *exigua*, *mutabilis* fq, *priapululus* fq, *sordida*; *Conop.*: *Myopa vesiculosa*; *Tachin.*: *Epigrimyia floridensis*, *Siphona*; *Musc.*: *Lucilia caesar*; *Oscin.*: *Chlorops proxima*, *Hippelates plebejus*.

Lepidoptera (2)—*Papilion.*: *Iphiclides*; *Hesperi.*: *Thanaos juvenalis*.

Coleoptera (17)—*Bruch.*: *Bruchus hibisci*; *Cerambyc.*: *Calimoxys sanguinicollis*, *Euderees*, *Molorehus* ab; *Chrysomel.*: *Diabrotica vittata*, *Disonycha*; *Dermest.*: *Anthrenus musaeorum* fq, *Cryptorhopalum triste*, *Orphilus* ab; *Lampyr.*: *Telephorus dentiger*; *Mordell.*: *Mordellistena aspersa* fq, *biplagiata* fq, *grammica*; *Oedemer.*: *Asclera ruficollis*; *Scarabae.*: *Euphoria fulgida*, *Hoplia* fq, *Valgus* gn, n.

CARYOPHYLLACEAE

Cerastium nutans.—Blooms April 16-May 31; 16 visitors observed, May 1-3; Mi, W.

Long-tongued Bees (1)—*Ap.*: *Apis* fq.

Short-tongued Bees (4, ♀)—*Halict.*: *Chloralictus sparsus*, *versatus* se, *Halictus lerouxii*, *Seladonia* se, fq.

Diptera (9)—*Syrph.*: *Eristalis bastardi*, *Helophilus latifrons* fq, *similis* fq, *Melanostoma mellinum*, *Mesogramma marginata* f, *Sphaerophoria*; *Bombyli.*: *Bombylius major*; *Tachin.*: *Peleteria*; *Musc.*: *Lucilia caesar*.

Lepidoptera (2)—*Nymphal.*: *Phyciodes*; *Papilion.*: *Eurymus*.

Cerastium vulgatum (int).—Blooms May 6–September 24; 15 species and 28 individuals observed, May 19, 21, 28, June 5, 11; Mi, W.

Long-tongued Bees (4:9)—*Ap.*: *Apis* 5; *Bomb.*: *Bombus americanorum* ♀, 1; *Ceratin.*: *Ceratina* ♀, 2; *Stelid.*: *Microstelis* ♀, 1.

Short-tongued Bees (4:8, ♀)—*Halict.*: *Oxystoglossa similis* 5, *Seladonia* 1; *Prosopid.*: *Prosopis pygmaea* 1; *Andren.*: *Opandrena personata* 1.

Other Hymenoptera (1:1)—*Eumen.*: *Leionotus illinoensis* 1.

Diptera (6:10)—*Syrph.*: *Mesogramma marginata* 2, *Sphaerophoria* 4; *Bombyli.*: *Toxophora* 1; *Conop.*: *Zodion fulvifrons* 1; *Tachin.*: *Cistogaster pallasii* 1, *Peleteria* 1.

Saponaria officinalis (int).—Blooms June 1–October 7; 2 visitors observed, August 24; Ma, R.

Lepidoptera (2)—*Papilion.*: *Euphœades*, *Pontia*.

Silene nivea.—Blooms June 10–July 9; 1 visitor observed, June 6; Mi, W.

Short-tongued Bees (1)—*Halict.*: *Chloralictus pilosus* ♀.

Silene stellata.—Blooms June 18–August 7; 1 visitor observed, June 23; Ma, W.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

Stellaria longifolia.—Blooms May 7–June 26; 13 species and 31 individuals observed, May 14, 18, 22, 24; Mi, W.

Long-tongued Bees (3:3)—*Megachil.*: *Diceratosmia* ♀, 1; *Nomad.*: *Holonomada superba* ♂, 1; *Eucer.*: *Tetralonia dilecta* ♂, 1.

Short-tongued Bees (6:17)—*Halict.* (♀): *Chloralictus sparsus* 3, *versatus* sc, 1, *Oxystoglossa similis* 5, *Seladonia* 5; *Prosopid.*: *Prosopis ziziae* ♂, 2; *Andren.*: *Opandrena personata* ♀, sc, 2.

Diptera (4:11)—*Mycetophil.*: *Sciara atrata* 2; *Syrph.*: *Helophilus laetus* 1, *Mesogramma marginata* 2; *Tachin.*: *Cistogaster pallasii* 6.

Stellaria media (int, 6:267–8).—Blooms March 16–December 1; 61 species observed, March 25–May 8 and October 15; Mi, W.

Long-tongued Bees (6)—*Ap.*: *Apis*; *Ceratin.*: *Ceratina* ♂; *Megachil.*: *Ceratosmia* ♂; *Nomad.*: *Gnathias ovatus* ♂ ♀, *Xanthidium luteoloides* ♂, *luteolum* ♂.

Short-tongued Bees (19)—*Halict.*: Chloralictus obscurus ♂, pilosus ♀, sparsus ♀, se, ab, versatus ♂ ♀, fq, Evylaeus foxii ♀, 4-maculatus ♀, Halictus lerouxii ♀, Odontalictus ♀, Oxystoglossa confusa ♀, ab, similis ♀, Seladonia ♀; *Collet.*: Colletes inaequalis ♂; *Andren.*: Andrena illinoensis ♀, sayi ♂, Opandrena cressonii ♂ ♀, se, in cop, *type*, miserabilis ♂ ♀, personata ♂ ♀, ab, Parandrena ♂, Trachandrena forbesii ♀.

Other Hymenoptera (4)—*Sapyg.*: Sapyga; *Chalcid.*: Smiera torvina; *Ichneumon.*: Pimpla novita; *Tenthredin.*: Dolerus arvensis.

Diptera (29)—*Mycetophil.*: Sciara atrata; *Syrph.*: Brachypalpus frontosus, Chilosis capillata, Eristalis aeneus, dimidiatus, tenax, Melanostoma obscurum, Mesogramma geminata, marginata fq, Platychirus quadratus, Syritta, Syrphus americanus, ribesii; *Tachin.*: Gonia capitata ab, exul fq, Siphona; *Sarcophag.*: Cynomyia fq; *Musc.*: Lucilia caesar, sericata, sylvarum, Musca, Myospila, Phormia terraenovae, Pollenia, Pseudopyrellia; *Anthomy.*: Phorbia acra, platura; *Borbor.*: Borborus; *Scatophag.*: Scatophaga.

Lepidoptera (2)—*Nymphal.*: Vanessa huntera; *Lycaen.*: Cyaniris.

Hemiptera (1)—*Lygae.*: Lygaeus.

May 6, 8, 1916, the first 100 individuals, representing 19 species, taken on the flowers are as follows:

Long-tongued Bees (1:2)—*Nomad.*: Gnathias ovatus 2.

Short-tongued Bees (7:73)—*Halict.*: Chloralictus sparsus 40, versatus 5, Evylaeus 4-maculatus 2, Oxystoglossa similis 2; *Andren.*: Opandrena cressonii 2, miserabilis 1, personata 21.

Other Hymenoptera (1:1)—*Sapyg.*: Sapyga 1.

Diptera (10:24)—*Syrph.*: Mesogramma geminata 2, marginata 6, Syritta 1; *Tachin.*: Siphona 3; *Musc.*: Lucilia caesar 1, sericata 1, sylvarum 4, Pollenia 1; *Anthomy.*: Phorbia acra 4, platura 1.

CELASTRACEAE

Celastrus scandens.—Blooms May 21–June 3; 6 species and 15 individuals observed, May 24; Mi (Mis), Y.

Long-tongued Bees (1:1)—*Megachil.*: Hoplitis ♀, 1.

Short-tongued Bees (4:13)—*Halict.*: Augochlora fervida ♀, 1, Chloralictus versatus ♀, se, 4; *Collet.*: Colletes aestivalis ♂ ♀, 6; *Andren.*: Opandrena cressonii ♀, se, 2.

Other Hymenoptera (1:1)—*Eumen.*: Leionotus foraminatus 1.

Evonymus atropurpureus (16:158).—Blooms May 25–June 23; 22 species and 51 individuals observed, June 7, 8, 11, 15; Mi, R.

Short-tongued Bees (5:11, ♀)—*Halict.*: Chloralictus sparsus 5, versatus 3, zephyrus 1, Oxystoglossa confusa 1, pura 1.

Diptera (15:34)—*Syrph.*: *Allograpta* 2, *Baccha tarchetius* 1, *Mesogramma marginata* 1, *Syrphus ribesii* 1; *Sarcophag.*: *Boettcheria* 4, *Helicobia heliciis* 1, 4-setosa 4, *Sarcophaga cimbicis* 1, sinuata 1; *Musc.*: *Myospila* 4, *Phormia regina* 3, *Pseudopyrellia* 6; *Anthomy.*: *Phorbia acra* 3, *platura* 1; *Ortal.*: *Seoptera* 1.

Coleoptera (2:6)—*Chrysomel.*: *Rhabdopterus* 1; *Mordell.*: *Mordellistena ornata* 5.

COMMELINACEAE

Tradescantia brevicaulis.—Blooms April 29–June 15; 13 visitors observed, May 8–24; Ma, R.

Long-tongued Bees (6, c)—*Ap.*: *Apis* fq; *Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile brevis* ♀; *Eucer.*: *Tetralonia dilecta* ♀, fq.

Short-tongued Bees (7, ♀, c)—*Halict.*: *Chloralictus tegularis*, *versatus*, *Evylaeus pectoralis*, 4-maculatus, *Oxystoglossa similis*, *Seladonia*; *Andren.*: *Opandrena cressonii*.

Tradescantia pilosa.—Blooms June 8–September 27; 3 visitors observed, July 1; Ma, R.

Long-tongued Bees (2, ♂, c)—*Bomb.*: *Bombus americanorum*, *impatiens*.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa pura* ♀, c.

Tradescantia virginiana (5:71).—Blooms May 8–August 11; 18 visitors observed, June 3–17; Ma, R.

Long-tongued Bees (7, c)—*Ap.*: *Apis*; *Bomb.*: *Bombias auricomus* ♀, *separatus* ♀ ♂, *Bombus americanorum* ♀, *consimilis* ♂, *sc. impatiens* ♀; *Ceratin.*: *Ceratina* ♀; *Eucer.*: *Tetralonia dilecta* ♀.

Short-tongued Bees (2, ♀, c)—*Halict.*: *Agapostemon viridulus*, *Chloralictus pruinus*.

Diptera (8, f, n)—*Syrph.*: *Allograpta*, *Eristalis dimidiatus*, *tenax*, *Mesogramma marginata*, *Sphaerophoria*, *Syrphus americanus*, *ribesii*, *Tropidia mamillata*.

Coleoptera (1)—*Curculion.*: *Centrinites* f, n.

COMPOSITAE

Achillea millefolium.—Blooms May 18–August 10; 47 visitors observed, May 28–June 28; Mis, W.

Long-tongued Bees (3, ♀)—*Megachil.*: *Megachile petulans* c; *Bomb.*: *Bombias auricomus* c; *Nomad.*: *Gnathias cuneatus*.

Short-tongued Bees (4, ♀)—*Halict.*: *Chloralictus pilosus* sc, *versatus* sc, ab, *Odontalictus* sc, *Paralictus simplex*.

Other Hymenoptera (8)—*Crabron.*: *Protothyreopus rufifemur*; *Oxybel.*: *Notoglossa americana*, *frontalis*, *Oxybelus packardii*;

Philanth.: *Cereeris compacta*, *rufinoda*; *Eumen.*: *Leionotus foraminatus*, *fulvipes*.

Diptera (34)—*Taban.*: *Chrysops striatus*; *Nemestrin.*: *Rhynchocephalus*; *Bombyli.*: *Oneodocera*, *Toxophora*; *Syrph.*: *Allograpta*, *Eristalis aeneus*, *dimidiatus*, *tenax*, *transversus* *Mallota cimbiciformis*, *Mesogramma marginata*, *Orthonera nitida*, *Paragus tibialis*, *Sphaerophoria*, *Syritta*, *Syrphus americanus*, *ribesii*; *Conop.*: *Conops brachyrrhynchus*, *Oncomyia*; *Tachin.*: *Apinops*, *Archytas analis*, *Cistogaster oecidua*, *pallasii*, *Epigrimyia polita*, *Gymnosoma*, *Senotainia rubriventris*, *trilineata*; *Sarcophag.*: *Helicobia heliceis*, *Sarcophaga cimbicis*; *Musc.*: *Lucilia sylvarum*, *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*, *platura*; *Sapromyz.*: *Sapromyza vulgaris*.

Coleoptera (1)—*Mordell.*: *Mordella melaena*.

Actinomeris alternifolia.—Blooms August 15–October 4, 12 visitors observed, August 17–September 12; Mas, Y.

Long-tongued Bees (6)—*Bomb.*: *Bombias separatus* ♂, *Bombus americanorum* ♀, *consimilis* ♂ ♀, *se*, *impatiens* ♀, *se*; *Ap.*: *Apis se*, *fq*; *Epeol.*: *Triepeolus remigatus* ♀.

Short-tongued Bees (2)—*Halict.*: *Curtisapis coriacea* ♂; *Panurg.*: *Pseudopanurgus labrosiformis* ♀, c.

Other Hymenoptera (1)—*Scoli.*: *Scolia bicincta*.

Diptera (1)—*Syrph.*: *Syrphus ribesii*.

Lepidoptera (1)—*Lycaen.*: *Cyaniris*.

Coleoptera (1)—*Lampyr.*: *Chauliognathus pennsylvanicus*, in cop.

Ambrosia trifida (anemophilous).—Two species and 33 individuals observed, August 27, September 1.

Long-tongued Bees (1:31)—*Ap.*: *Apis c*, 31.

Other Hymenoptera (1:2)—*Vesp.*: *Vespa germanica*, expl., 2.

Antennaria plantaginifolia (15:462-3).—Blooms April 4–May 21; 72 visitors observed, April 14–May 5; Mis, W.

On staminate flowers (25):

Long-tongued Bees (3)—*Megachil.*: *Osmia pumila* ♂; *Bomb.*: *Bombus americanorum* ♀; *Nomad.*: *Nomada cressonii* ♂.

Short-tongued Bees (2, ♀)—*Halict.*: *Evyllaes foxii se*; *Spheco-dini*: *Dialonia antennariae type*.

Diptera (14)—*Empid.*: *Empis otiosa type*; *Syrph.*: *Eristalis aeneus*, *Mesogramma geminata*, *Orthonera nitida*, *Paragus tibialis*, *Platychirus hyperboreus*, *quadratus*; *Tachin.*: *Pachyophthalmus signatus*; *Sarcophag.*: *Cynomyia*, *Helicobia heliceis*, *Sarcophaga*

cimbicis; *Musc.*: Morellia; *Anthomy.*: Limnophora; *Oscin.*: Chlorops versicolor.

Lepidoptera (4)—*Nymphal.*: Vanessa huntera; *Hesper.*: Thanaos juvenalis; *Noctu.*: Drasteria erectea; *Pyraust.*: Loxostege.

Coleoptera (2, f)—*Dermest.*: Anthrenus scrophulariae; *Oedermer.*: Asclera ruficollis.

On staminate and pistillate flowers (26):—

Long-tongued Bees (5)—*Ceratin.*: Ceratina ♂, ab, Zaodontomerus ♂; *Ap.*: Apis; *Nomad.* (♂ ♀, fq): Gnathias ovatus, Nomada sayi.

Short-tongued Bees (12)—*Halict.* (♀): Chloralictus pilosus se, sparsus se, ab, versatus se, ab, zephyrus, Halictus lerouxii ab, Odontalictus se, ab, Oxystoglossa confusa fq, similis se, fq, Seladonia se, ab; *Sphecodini.*: Sphecodes minor; *Andren.*: Parandrena ♀, Trachandrena claytoniae ♂.

Diptera (7)—*Empid.*: Rhamphomyia priapulus; *Syrph.*: Mesogramma marginata in cop, fq, Sphaerophoria fq; *Tachin.*: Gonia capitata ab; *Musc.*: Lucilia caesar, Pseudopyrellia; *Anthomy.*: Phorbia platara.

Lepidoptera (2)—*Lycaen.*: Cyaniris; *Papilion.*: Eurymus.

On pistillate flowers (21):—

Long-tongued Bees (3)—*Nomad.*: Heminomada ♂, Phor ♂, Xanthidium luteolum ♀.

Short-tongued Bees (11)—*Halict.* (♀): Chloralictus pruinus, Evylaeus arcuatus, pectoralis; *Sphecodini.*: Sphecodium cressonii; *Andren.*: Andrena erythrogastra ♂, illinoensis ♂ ♀, fq, nigrae ♀, salictaria ♂, ab, sayi ♀, Opandrena miserabilis ♂, Trachandrena forbesii ♂.

Other Hymenoptera (1)—*Chrysid.*: Holochrysis hilaris.

Diptera (5)—*Bombyli.*: Bombylius major; *Syrph.*: Paragus bicolor; *Tachin.*: Euphorocera claripennis, Gonia exul; *Anthomy.*: Phorbia aera.

Lepidoptera (1)—*Hesper.*: Thanaos brizo.

Anthemis cotula (int).—Blooms May 17–October 24; 7 visitors observed, June 21, 22; Mis, W.

Short-tongued Bees (5)—*Halict.*: Chloralictus sparsus ♀, se; Halictus lerouxii ♀, Odontalictus ♀, se, fq, Oxystoglossa similis ♀, se, Seladonia ♂ ♀.

Diptera (2)—*Empid.*: Parempis; *Conop.*: Oncomyia.

Arctium minus (int).—Blooms July 7–October 24; 19 species and 44 individuals observed, July 21–September 8; Mas, R.

Long-tongued Bees (9:26)—*Megachil.*: *Anthemois* ♀, se, 1, *Sayapis sayi* ♂ ♀, se, 3; *Ceratin.*: *Ceratina* ♀, se, 2; *Bomb.* (♀): *Bombus americanorum* se, 4, *consimilis* 1, *impatiens* se, 2; *Ap.*: *Apis* 7; *Eucer.*: *Melissodes bimaculata* ♂ ♀, 3, *vernoniana* ♂, 3.

Short-tongued Bees (4:11)—*Halict.*: *Agapostemon radiatus* ♂ ♀, 5, *Chloralictetus sparsus* ♀, c, n, *Halictus lerouxii* ♂ ♀, 2, *Odontalictus* ♀, 2.

Diptera (2:2)—*Bombyli.*: *Exoprosopa fasciata*, 1; *Syrph.*: *Eristalis tenax* 1.

Lepidoptera (4:5)—*Papilion.*: *Eurymus* 1, *Pieris* 2; *Hesperii.*: *Hesperia* 1, *Limochores taumas* 1.

Aster anomalus.—Blooms August 22–November 8; 34 visitors observed, August 22–October 9; Mas, R.

Long-tongued Bees (10)—*Megachil.*: *Megachile brevis* ♀, se, *Xanthosarus* ♀, se; *Ceratin.*: *Ceratina* ♀, se; *Bomb.*: *Bombus americanorum* ♂ ♀, fq, *impatiens* ♂ ♀, *Psithyrus variabilis* ♂; *Ap.*: *Apis* se; *Eucer.*: *Melissodes autumnalis* ♂ ♀, se, *simillima* ♀, se, *trinodis* ♀, se.

Short-tongued Bees (8)—*Halict.*: *Chloralictetus pilosus* ♂, *Evy-laeus pectoralis* ♀, se, *Odontalictus* ♂ ♀, se, *Oxystoglossa pura* ♀; *Collet.* (♀, se): *Colletes americanus*, *compactus*; *Andren.* (♀, se): *Pterandrena asteris solidaginis*.

Other Hymenoptera (1)—*Bracon.*: *Chelonus*.

Diptera (8)—*Bombyli.*: *Anthrax haleyon*, *Geron rufipes*, *Spar-nopolius*; *Empid.*: *Parempis*; *Syrph.*: *Eristalis transversus*, *Syrphus areuatus*; *Tachin.*: *Siphoplagia anomala*; *Musc.*: *Compsomyia*.

Lepidoptera (5)—*Nymphal.*: *Phyciodes*; *Papilion.*: *Callidryas*, *Pieris*, *Pontia*, *Zerene*.

Coleoptera (1)—*Melo.*: *Epicauta pennsylvanica*, n.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

October 6, 1909, 22 species and 66 individuals were taken on the flowers, as follows:

Long-tongued Bees (7:43)—*Megachil.*: *Megachile brevis* 1; *Xanthosarus* 9; *Bomb.*: *Bombus americanorum* 10; *impatiens* 5; *Ap.*: *Apis* 8; *Eucer.*: *Melissodes autumnalis* 9; *trinodis* 1.

Short-tongued Bees (6:12)—*Halict.*: *Odontalictus* 1; *Oxystoglossa pura* 1; *Collet.*: *Colletes americanus* 2; *compactus* 6; *Andren.*: *Pterandrena asteris* 1; *solidaginis* 1.

Other Hymenoptera (1:1)—*Bracon.*: *Chelonus* 1.

Diptera (4:5)—*Bombyli.*: *Sparnopolius* 2; *Empid.*: *Parempis* 1; *Syrph.*: *Syrphus areuatus* 1; *Musc.*: *Compsomyia* 1.

Lepidoptera (2:3)—*Papilion.*: *Pieris* 1; *Pontia* 2.

Coleoptera (1:1)—*Melo.*: *Epicauta pennsylvanica* 1.

Hemiptera (1:1)—*Lygae.*: *Lygaeus* 1.

Aster ericoides villosus (16: 175-6).—Blooms August 30–November 8; 302 visitors observed, August 30–November 8; Mis, W.

Long-tongued Bees (37)—*Stelid.*: *Stelidium* ♀; *Megachil.*: Trypetini: *Neotrypetes productus* ♂, *truncatus* ♀, sc; *Megachilini*: *Megachile brevis* ♀, sc, *generosa* ♀, *mendica* ♀; *Sayapis sayi* ♀, sc, *Xanthosarus* ♂ ♀, sc; *Coelioxyini*: *Coelioxys 8-dentata* ♂ ♀, fq, *rufitarsis* ♀, *sayi* ♀; *Ceratin.*: *Ceratina* ♂ ♀, fq, *Zaodontomerus* ♂, fq; *Bomb.*: *Bombias auricomus* ♂ ♀, *scutellaris* ♂ ♀ ♀, *separatus* ♂ ♀, *Bombus americanorum* ♂ ♀ ♀, fq, *impatiens* ♂ ♀, sc, fq, *Psithyrus variabilis* ♂, fq; *Ap.*: *Apis* sc, fq; *Nomad.*: *Holonomada placida* ♂ ♀, fq, *vineta* ♀, *Nomada vicina* ♂ ♀, fq; *Epeol.*: *Epeolus autumnalis* ♂ ♀, *bifasciatus* ♀, *pusillus* ♂ ♀, fq, *Triepeolus concolor* ♀, *cressonii* ♂ ♀, *donatus* ♂ ♀, fq, *micropygius* ♀, *type*, *pectoralis* ♂ ♀, fq, *type*; *Eucer.*: *Epimelissodes obliqua* ♂, *Melissodes asteris* ♀, *type*, *autumnalis* ♂ ♀, sc, ab, *type*, *boltoniae* ♀, sc, *nivea* ♀, sc, fq, *simillima* ♂ ♀, se, fq.

Short-tongued Bees (53)—*Halict.*: *Agapostemon radiatus* ♂ ♀, fq, *splendens* ♂ ♀, *texanus* ♂ ♀, sc, *viridulus* ♂ ♀, sc, fq, *Augochlora fervida* ♂ ♀, sc, *viridula* ♂ ♀, *Chloralictus coreopsis* ♂ ♀, *foveolatus* ♂, *type*, *illinoensis* ♂ ♀, sc, fq, *obscurus* ♂, fq, *pilosus* ♂ ♀, fq, *pruinatus* ♂, *smilacinae* ♂, *sparsus* ♂ ♀, sc, *tegularis* ♂ ♀, *versatus* ♂ ♀, sc, ab, *zephyrus* ♂ ♀, fq, *Curtisapis coriacea* ♂, *forbesii* ♂ ♀, se, *fuscipennis* ♂, fq, *Dialictus* ♂ ♀, fq, *Evylaeus arcuatus* ♀, *foxii* ♀, *pectoralis* ♂ ♀, se, fq, *4-maculatus* ♀, *Halictus lerouxii* ♀, se, *parallelus* ♂, *Odontalictus* ♂ ♀, sc, ab, in cop, *Oxystoglossa confusa* ♂ ♀, se, ab, *pura* ♂ ♀, *similis* ♂ ♀, fq, *Paralictus platyparius* ♀, *Seladonia* ♂ ♀; *Sphecodini*: *Dialonia* ♀, *Machaeris stygia* ♂ ♀, *Proteraner* ♂ ♀, *Sphecodium cressonii* ♂ ♀, fq; *Prosopid.*: *Prosopis illinoensis* ♀, *pygmaea* ♀; *Collet.* (♂ ♀, sc): *Colletes americanus* fq, *armatus*, *compactus*, fq, *eulophi*; *Andren.*: *Andrena nubecula* ♂ ♀, se, fq, *Pterandrena asteris* ♂ ♀, se, fq, in cop, *pulchella* ♀, *solidaginis* ♂ ♀, se, fq; *Panurg.*: *Calliopsis andreniformis* ♀, se, *Heterosarus* ♀, se, *Perdita* ♀, se, *Pseudopanurgus albitarsis* ♂, *asteris* ♂ ♀, se, ab, in cop., *type*, *compositarum* ♂ ♀, se, ab, in cop.

Other Hymenoptera (54)—*Crabron.*: *Hypocrabro*, *Protothyreopus rufifemur*, *Solenius*; *Philanth.*: *Cerceris astarte*, *bicornuta*, *clypeata*, *fulvipes*, *Philanthus punctatus*, *ventilabris*; *Pemphredon.*: *Mimesa*; *Sphec.*: *Ammobia ichneumonea*, *Priononyx atrata*, fq, *Sphex gracilis* in cop, *nigricans*, *pictipennis*, *procera*, *vulgaris*; *Larr.*: *Larropsis*, *Notogonidea*, *Tachytes obscurus*; *Bembic.*: *Bi-*

cyrtus ventralis, Stizus; *Pompil.*: Anoplius illinoensis, Ceropales fraterna, Lophopompilus philadelphicus, Planiceps feralis; *Vesp.*: Polistes annularis, pallipes, variatus, Vespa cuneata, germanica fq, maculata; *Eumen.*: Ancistrocerus capra, campestris, tigris fq, Eumenes fraternus, Leionotus anormis fq, arvensis, clypeatus, dorsalis, foraminatus, fulvipes, fundatus, histrionalis, Zendaleia zendaleoides; *Scoli.*: Elis interrupta, 5-cincta, Scolia bicincta; *Chrysid.*: Gonochrysis; *Chalcid.*: Chaleis; *Ichneumon.*: Exetastes obscurus, Metopius polycinctorius; *Bracon.*: Agathis vulgaris, Chelonus.

Diptera (119)—*Tipul.*: Geranomyia; *Bibion.*: Dilophus serotinus; *Bombyli.*: Anthrax alternata fq, hypomelas, Argyramoeba albofasciata f, n, Exoprosopa decora, fasciata, fascipennis, Geron rufipes fq, Sparnopolius fq, Systropus fq, Toxophora; *Empid.*: Parempis; *Syrph.*: Allograpta fq, Baccha clavata fq, Chilosis punctulata, Eristalis aeneus, bastardi, dimidiatus fq, flavipes, latifrons, tenax fq, transversus, Helophilus latifrons, similis fq, in cop, Mesogramma geminata, marginata ab, Milesia, Orthoneura nitida, Paragus bicolor, tibialis, Pipiza nigribara, pulchella, Platychirus quadratus, Sphaerophoria fq, in cop, Spilomyia longicornis fq, 4-fasciata, Syrretta fq, Syrphus americanus fq, ribesii fq, Tropidia albistylum, mamillata, Xanthogramma emarginata; *Conop.*: Conops xanthopareus, Oncomyia fq, Physocephala texana, tibialis, Robertsonomyia in cop, Stylogaster biannulata, Zodium fulvifrons fq, nanelum fq; *Tachin.*: Actia, Alophora aeneoventris fq, pulverea, Apinops, Archytas analis fq, aterrima, Belvosia bifasciata, unifasciata, Celatoria, Chaetogaedia crebra, Cistogaster occidua fq, Clytiomyia, Distichona varia fq, Epigrimyia floridensis, Euphorocera claripennis, Euthera, Gymnosoma, Hypostena barbata, Leucostoma atra, neomexicana, nigricornis, Linnaemyia fq, Macquartia, Ennyomma globosa, Ocyptera lata, tenuis, Paradidyma, Peleteria fq, Phoranthia asteris, magna, pruinosa, purpurascens, Senotainia rubriventris, trilineata, Siphona fq, Siphoplaga anomala, flaccidirostris, Spallanzania fq, Sturmia phyciodis, Trichopoda pennipes, Trichophora, Winthemia, Xanthomelana; *Deri.*: Ptilodexia; *Sarcophag.*: Cynomyia, Helicobia helieis, 4-setosa, Sarcophaga assidua, cimbicis, hunteri; *Musc.*: Compsomyia fq, Graphomyia, Lucilia caesar, sericata fq, Musca, Myospila, Pseudopyrellia fq, Stomoxys fq; *Anthomy.*: Calythea, Coenosia antennalis, antica, 6-notata, Hylaemyia laevis, Limnophora, Phorbia aera fq, platura; *Ortal.*: Chaetopsis; *Trypet.*: Trypeta humilis.

Lepidoptera (30)—*Nymphal.*: Anosia, Charidryas, Euptoieta, Hypatus, Junonia, Phyciodes fq, Vanessa cardui, huntera; *Lycaen.*:

Chrysophanus, Everes, Uranotes; *Papilion.*: Callidryas, Eurema, Eurymus fq, Nathalis, Pieris, Pontia fq, Xanthidia, Zerene; *Hesperi.*: Atalopedes fq, Epargyreus, Hesperia fq, Limchores taumas, Polites; *Ctenuch.*: Scepasis fq; *Noctu.*: Drasteria erectea, erichto, Feltia, Heliothis armiger, Plusia simplex.

Coleoptera (6)—*Cerambyc.*: Cyllene robiniae f, n; *Chrysomel.* (f, n): Diabrotica 12-punctata, longicornis, vittata; *Lampyr.*: Chauliognathus pennsylvanicus fq; *Melo.*: Epicauta pennsylvanica f, n.

Hemiptera (3)—*Caps.*: Lygus; *Lygae.*: Lygaeus fq; *Beryt.*: Harmostes.

September 28–November 6, 1909, the following 125 species and 1,129 individuals were taken on the flowers:

Long-tongued Bees (16:168)—*Megachil.*: Megachile brevis 2, Sayapis sayi 1, Xanthosarus 2; *Ceratin.*: Ceratina 10; *Bomb.*: Bombias auricomus 1, scutellaris 1, separatus 2, Bombus americanorum 33, impatiens 32, Psithyrus variabilis 12; *Ap.*: Apis 52; *Epeol.*: Triepeolus donatus 1; *Eucer.*: Melissodes autumnalis 9, boltoniae 3, nivea 3, simillima 4.

Short-tongued Bees (25:385)—*Halict.*: Agapostemon radiatus 3, texanus 1, Chloralictus coreopsis 3, illinoensis 15, obscurus 6, pilosus 3, sparsus 65, tegularis 1, versatus 166, zephyrus 5, Curtisapis fuscipennis 12, Evylaeus pectoralis 5, Odontalictus 18, Oxystoglossa confusa 13, pura 4, similis 13, Paralictus platyparius 8; *Sphecodini.*: Machaeris stygia 3; *Collet.*: Colletes americanus 18, compactus 1, eulophi 1; *Andren.*: Andrena nubecula 1, Pterandrena pulchella 1, solidaginis 4; *Panurg.*: Pseudopanurgus compositarum 15.

Other Hymenoptera (13:29)—*Philanth.*: Philanthus punctatus 1; *Sphec.*: Ammobia ichneumonea 1; *Vesp.*: Polistes annularis 5; pallipes 3, variatus 4, Vesputa germanica 1, maculata 5; *Eumen.*: Ancistrocerus capra 2, tigris 1, Leionotus anormis 2, arvensis 1, clypeatus 2, foraminatus 1.

Diptera (53:382)—*Bibion.*: Dilophus serotinus 4; *Bombyli.*: Sparnopolius 33; *Syrph.*: Allograpta 3, Eristalis latifrons 1, tenax 3, transversus 1, Helophilus similis 2, Mesogramma geminata 3, marginata 74, Sphaerophoria 14, Spilomyia longicornis 4, 4-fasciata 2, Syritta 10, Syrphus americanus 3; *Conop.*: Oncomyia 3, Zodion fulvifrons 1, nanellum 3; *Tachin.*: Alophora aeneoventris 2, pulverea 1, Archytas analis 10, aterrima 2, Belvosia unifasciata 1, Celatoria 1, Chaetogaedia crebra 1, Cistogaster occidua 7, Distichona varia 5, Euphorocera claripennis 2, Gymnosoma 3, Leucostoma atra

1, Linnaemyia 6, Paradidyma 4, Peleteria 2, Phorantha asteris 1, purpurascens 2, Senotainia rubriventris 1, Siphoplugia anomala 1, Spallanzania 5, Sturmia phyciodis 2, Winthemia 1; *Sarcophag.*: Cynomyia 3, Helicobia heliceis 4, 4-setosa 2, Sarcophaga assidua 3, cimbicis 6; *Musc.*: Compsomyia 6, Lucilia caesar 8, sericata 23, Musca 4, Myospila 1, Pseudopyrellia 73, Stomoxys 6; *Anthomy.*: Phorbia aera 12, platura 6.

Lepidoptera (13: 88)—*Nymphal.*: Phyciodes 15, Vanessa cardui 1, huntera 2; *Lycaen.*: Everes 1; *Papilion.*: Eurymus 31, Pontia 1; *Hesperi.*: Atalopedes 22, Hesperia 3, Limochores taumas 1, Polites 3; *Ctenuch.*: Seepsis 6; *Noctu.*: Drasteria erechtea 1, Plusia simplex 1.

Coleoptera (5: 77)—*Chrysomel.*: Diabrotica 12-punctata 34, longicornis 5, vittata 3; *Lampyr.*: Chauliognathus pennsylvanicus 18; *Melo.*: Epicauta pennsylvanica 17.

Aster lateriflorus.—Blooms September 17–October 30; 57 visitors observed, September 17–October 15; Mis, W.

Long-tongued Bees (9)—*Megachil.*: Megachile mendica ♀, se, Xanthosarus ♀, se; *Ceratin.*: Ceratina ♀, se, Zaodontomerus ♂; *Bomb.* (♂ ♀): Bombus americanorum se, consimilis, impatiens se, ab; *Ap.*: Apis se, fq; *Eucer.*: Melissodes simillima ♀, se.

Short-tongued Bees (15)—*Habict.*: Agapostemon viridulus ♀, se, Augochlora viridula ♂ ♀, Chloralictus versatus ♂, Curtisapis coriacea ♂ ♀, fuseipennis ♂, Oxystoglossa confusa ♀, pura ♀, similis ♀, Paralictus platyparius ♂; *Collet.*: Colletes americanus ♀, se, compactus ♂ ♀, se, ab; *Andren.*: Andrena nubecula ♀, se, Pterandrena solidaginis ♀; *Panurg.*: Pseudopanurgus asteris ♀, se, compositarum ♂ ♀, se.

Other Hymenoptera (14)—*Crabon.*: Synthyreopus; *Sphec.*: Spheg procerus; *Vesp.*: Polistes annularis, ab, pallipes, fq, Vespa germanica, maculata; *Eumen.*: Ancistrocerus capra, campestris, tigris, Eumenes fraternus, Leionotus anormis, foraminatus, serophulariae, Symmorphus debilis.

Diptera (17)—*Syrph.*: Baccha fuseipennis, Eristalis transversus, Helophilus similis, Sericomomyia, Spilomyia longicornis, 4-fasciata, Syrphus americanus, torvus, Xanthogramma emarginata; *Tachin.*: Archytas analis, aterrima, fq, Cistogaster occidua, Cyphocera, Leskiomima prima, Trichophora; *Musc.*: Lucilia caesar, ab, Pseudopyrellia.

Lepidoptera (2)—*Nymphal.*: Basilarchia astyanax; *Ctenuch.*: Seepsis.

September 28–October 11, the following 37 species and 172 individuals were taken as they came to the flowers:

Long-tongued Bees (6:25)—*Megachil.*: *Megachile mendica* 2, *Xanthosarus* 2; *Ceratin.*: *Ceratina* 3; *Bomb.*: *Bombus americanorum* 3, *consimilis* 1, *impatiens* 14.

Short-tongued Bees (11:37)—*Halict.*: *Agapostemon viridulus* 1, *Augochlora viridula* 5, *Chloralictus versatus* 1, *Curtisapis coriacea* 1, *fuscipennis* 1, *Oxystoglossa confusa* 2, *pura* 1, *similis* 5; *Collet.*: *Colletes americanus* 1, *compactus* 18; *Panurg.*: *Pseudopanurgus asteris* 1.

Other Hymenoptera (8:50)—*Sphec.*: *Sphex procera* 1; *Vesp.*: *Polistes annularis* 18, *pallipes* 10, *Vespula maculata* 2; *Eumen.*: *Ancistrocerus capra* 7, *tigris* 4, *Eumenes fraternus* 6, *Leionotus foraminatus* 2.

Diptera (10:57)—*Syrph.*: *Eristalis transversus* 1, *Helophilus similis* 3, *Syrphus torvus* 1; *Tachin.*: *Archytas analis* 1, *aterrima* 10, *Cistogaster occidua* 1, *Cyphocera* 1, *Trichophora* 1; *Musc.*: *Lucilia caesar* 36, *Pseudopyrellia* 2.

Lepidoptera (2:3)—*Nymphal.*: *Basilarchia astyanax* 1; *Ctenuch.*: *Scepsis* 2.

Aster multiflorus.—Blooms September 9–October 22; 43 species and 124 individuals taken on October 6, 15, 17; Mis, W.

Long-tongued Bees (5:33)—*Ap.*: *Apis* 4; *Bomb.*: *Bombus americanorum* ♂ ♀, 6, *impatiens* ♂ ♀, 17, *Psithyrus variabilis* ♂, 2; *Eucer.*: *Melissodes simillima* ♀, sc, 4.

Short-tongued Bees (8:44)—*Halict.*: *Chloralictus illinoensis* ♀, sc, 1, *obscurus* ♀, sc, 1, *pilosus* ♀, 1, *versatus* ♂ ♀, sc, 33, *Paralictus platyparius* ♀, 1; *Collet.*: *Colletes americanus* ♂ ♀, sc, 5, *compactus* ♀, 1; *Panurg.*: *Pseudopanurgus compositarum* ♀, sc, 1.

Other Hymenoptera (11:17)—*Sphec.*: *Sphex gracilis* 1, *procera* 1; *Vesp.*: *Polistes annularis* 3, *variatus* 4, *Vespula maculata* 1; *Eumen.*: *Ancistrocerus catskillensis* 2, *Leionotus anormis* 1, *clypeatus* 1; *Crabron.*: *Solenius* 1; *Pompil.*: *Anoplius illinoensis* 1, *Lophopompilus philadelphicus* 1.

Diptera (13:21)—*Bombyli.*: *Sparnopolius* 2; *Syrph.*: *Eristalis tenax* 2, *Mesogramma geminata* 1, *marginata* 3, *Paragus tibialis* 2, *Sphaerophoria* 4, *Syritta* 1, *Syrphus americanus* 1; *Tachin.*: *Archytas aterrima* 1, *Spallanzania* 1; *Sarcophag.*: *Helicobia helieis* 1; *Anthomy.*: *Coenosia antica* 1, *Limnophora* 1.

Lepidoptera (2:2)—*Papilion.*: *Nathalis* 1, *Pieris* 1.

Coleoptera (1:4)—*Chrysomel.*: *Diabrotica 12-punctata* 4.

Hemiptera (3:3)—*Core.*: *Alydus eurinus* 1, *pilosulus* 1; *Reduvi.*: *Sinea* 1.

Aster novaeangliae (15:459).—Blooms July 24–November 4; 41 visitors observed, July 24–October 10; Mas, R.

Long-tongued Bees (13)—*Megachil.*: *Megachile brevis* ♀, se, fq, *Xanthosarus* ♂ ♀, se, fq; *Ceratin.*: *Ceratina* ♀, se; *Bomb.*: *Bombias scutellaris* ♂, *separatus* ♂, *Bombus americanorum* ♂ ♀ ♀, se, fq, *impatiens* ♂; *Ap.*: *Apis* se; *Eucer.* (♀): *Melissodes agilis* se, *autumnalis* se, *boltoniae* se, *nivea*, *simillima* se.

Short-tongued Bees (7)—*Halict.*: *Chloralictus coreopsis* ♀, e, n, *Halictus parallelus* ♂, *Odontalictus* ♂; *Collet.*: *Colletes americanus* ♀, e, n; *Andren.*: *Pterandrena helianthi* ♀, e, *solidaginis* ♀, e, n; *Panurg.*: *Pseudopanurgus compositarum* ♀, e, n.

Diptera (11)—*Bombyli.*: *Exoprosopa fascipennis*, *Sparnopolius*, *Systoechus*; *Syrph.*: *Eristalis dimidiatus*, *latifrons*, *tenax* sf, *transversus*, *Helophilus similis*, *Syrphus americanus* f, n, *Tropidia mamillata* f, n; *Conop.*: *Stylogaster biannulata* fq.

Lepidoptera (10)—*Nymphal.*: *Anosia*, *Phyciodes*, *Vanessa car-dui*; *Papilion.*: *Eurymus* fq, *Pontia*, *Zerene*; *Hesper.*: *Hylephila*, *Polites*; *Noctu.*: *Heliothis armiger*, *Plusia simplex*.

Aster paniculatus (15:460).—Blooms September 20–October 17; Mis, W. The following 101 species and 229 individuals were taken as they came.

Long-tongued Bees (10:25)—*Ap.*: *Apis* 10; *Bomb.*: *Bombus americanorum* ♀, 1, *impatiens* ♂, 6; *Ceratin.*: *Ceratina* ♂, 1; *Megachil.*: Trypetini: *Neotrypetes truncatus* ♀, 1; Megachilini: *Megachile brevis* ♂ ♀, se, 2, *Xanthosarus* ♀, 1; Coelioxyni: *Coelioxys 8-dentata* ♀, 1; *Eucer.*: *Melissodes boltoniae* ♀, se, 1, *similima* ♀, se, 1.

Short-tongued Bees (20:62)—*Halict.*: *Agapostemon radiatus* ♂, 2, *Chloralictus sparsus* ♀, se, 10, *versatus* ♂ ♀, se, 2, *zephyrus* ♀, 1, *Curtisapis coriacea* ♂, 4, *forbesii* ♂, 1, *Evylaeus pectoralis* ♀, 1, *Halictus lerouxii* ♀, 1, *Odontalictus* ♂ ♀, se, 22, *Oxystoglossa confusa* ♀, 2, *similis* ♀, 1, *Seladonia* ♀, 2; Sphecodini: *Proteraner* ♂, 1; *Prosopid.*: *Prosopis pygmaea* ♀, 1; *Collet.*: *Colletes americanus* ♀, 1, *compactus* ♀, se, 2; *Andren.*: *Andrena nubecula* ♀, 2, *Pterandrena asteris* ♂ ♀, se, 3, *type*, *solidaginis* ♀, se, 1; *Panurg.*: *Pseudopanurgus compositarum* ♀, se, 1.

Other Hymenoptera (27:51)—*Philanth.*: *Cerceris prominens* 1, *Eucerceris* 1, *Philanthus politus* 1, *punctatus* 1; *Sphex.*: *Isodontia apicalis* 2, *Sphex gracilis* 1, *nigricans* 1, *procera* 3, *vulgaris* 2; *Larr.*: *Notogonidea* 1; *Pompil.*: *Episyron* 1; *Vesp.*: *Polistes pallipes* 3, *rubiginosus* 13, *variatus* 2, *Vespula germanica* 1, *maculata* 2; *Eumen.*: *Ancistrocerus capra* 1, *catskillensis* 1, *tigris* 1, *Eumenes*

fraternus 2, Leionotus anormis 2, arvensis 1, foraminatus 2, serophulariae 1; *Scoli.*: Elis 5-cincta 1; *Ichneumon.*: Lampronota varia 1; *Bracon.*: Bracon longicauda 1.

Diptera (28:67)—*Syrph.*: Eristalis aeneus 1, dimidiatus 1, tenax 4, transversus 4, Mesogramma geminata sf, 1, marginata 2, Sphaerophoria 1, Spilomyia 4-fasciata 1, Syrirta 10, Syrphus americanus 1, ribesii f, 4; *Conop.*: Oncomyia 1; *Tachin.*: Alophora aeneoventris 1, Archytas aterrima 3, Linnaemyia 1, Senotainia trilineata 1, Spallanzania 1, Trichopoda pennipes 1; *Dexi.*: Ptilodexia 1; *Sarcophag.*: Sarcophaga cimbicis 1; *Musc.*: Compsomyia 5, Graphomyia 3, Lucilia caesar 1, sericata 6, Phormia regina 1, Pseudopyrellia 7, Stomoxys 2; *Ortal.*: Chaetopsis (s?) 1.

Lepidoptera (12:12)—*Nymphal.*: Phyciodes 1, Vanessa cardui 1, huntera 1; *Lycaen.*: Cyaniris 1; *Papilion.*: Eurymus 1, Pieris 1, Pontia 1; *Hesper.*: Atalopedes 1, Polites 1, Thanaos martialis 1; *Ctenuch.*: Scepis 1; *Noctu.*: Plusia simplex 1.

Coleoptera (3:12)—*Cerambyc.*: Cyllene robiniae f, 1, n; *Lampyr.*: Chauliognathus pennsylvanicus 10; *Scarabae.*: Euphoria sepulchralis f, 1, n.

Hemiptera (1:1)—*Core.*: Alydus eurinus 1.

Aster sagittifolius.—Blooms August 12–November 4; 40 visitors observed, August 27–October 26; Mas, R.

Long-tongued Bees (11)—*Ap.*: Apis fq; Bomb. (♂ ♀): Bombus americanorum ab, consimilis, impatiens sc, ab; *Megachil.* (♀): Megachile brevis sc, mendica, Xanthosarus sc; *Epeol.*: Epeolus pusillus ♂; *Eucer.* (♀): Melissodes autumnalis sc, nivea sc, simillima.

Short-tongued Bees (8)—*Halict.*: Augochlora viridula ♀, sc, Epylaeus pectoralis ♀, Odontalictus ♂, Oxystoglossa pura ♂; *Collet.*: Colletes americanus ♀, sc, compactus ♀, sc, ab; *Andren.*: Pterandrena asteris ♀; *Panurg.*: Pseudopanurgus asteris ♂ ♀, sc, in cop.

Other Hymenoptera (3)—*Sphec.*: Sphecx procera; *Vesp.*: Vesputa germanica, maculata.

Diptera (11)—*Syrph.*: Mesogramma geminata, marginata, Spilomyia longicornis, 4-fasciata, Syrphus ribesii; *Empid.*: Parempis; *Bombyli.*: Exoprosopa fascipennis; *Sarcophag.*: Cynomyia; *Musc.*: Compsomyia, Lucilia caesar, sericata.

Lepidoptera (3)—*Papilion.*: Callidryas; *Hesper.*: Hesperia; *Ctenuch.*: Scepis.

Coleoptera (4)—*Chrysomel.*: Diabrotica longicornis, vittata; *Lampyr.*: Chauliognathus pennsylvanicus; *Melo.*: Epicauta pennsylvanica f, n.

October 8, 21, 1909, the following 29 species and 81 individuals were taken as they came to the flowers:

Long-tongued Bees (6: 33)—*Ap.*: Apis 3; *Bomb.*: *Bombus americanorum* 10, *impatiens* 12; *Megachil.*: *Xanthosarus* 1; *Eucer.*: *Melissodes autumnalis* 6, *simillima* 1.

Short-tongued Bees (7: 20)—*Halict.*: *Evyllaenus pectoralis* 1, *Odontalictus* 3, *Oxystoglossa pura* 1; *Collet.*: *Colletes americanus* 2, *compactus* 11; *Andren.*: *Pterandrena asteris* 1; *Panurg.*: *Pseudopanurgus asteris* 1.

Other Hymenoptera (3: 5)—*Sphec.*: *Sphex procera* 1; *Vesp.*: *Vespula germanica* 2, *maculata* 2.

Diptera (7: 11)—*Syrph.*: *Mesogramma geminata* 1, *marginata* 1, *Spilomyia longicornis* 2, *Syrphus ribesii* 3; *Empid.*: *Parempis* 1; *Musc.*: *Lucilia caesar* 2, *sericata* 1.

Lepidoptera (2: 4)—*Hesper.*: *Hesperia* 1; *Ctenuch.*: *Scepsis* 3.

Coleoptera (4: 8)—*Chrysomel.*: *Diabrotica longicornis* 3, *vitata* 1; *Lampyr.*: *Chauliognathus pennsylvanicus* 2; *Melo.*: *Epicauta pennsylvanica* 2.

Aster salicifolius.—Blooms September 23–October 30; 44 species and 121 individuals taken on the flowers, October 10–22; Mas, R.

Long-tongued Bees (10: 56)—*Ap.*: Apis 5; *Bomb.*: *Bombias separatus* ♂, 1, *Bombus americanorum* ♂ ♀, 7, *impatiens* ♂ ♀, 26, *Psithyrus variabilis* ♂, 10; *Ceratin.*: *Ceratina* ♀, 1; *Megachil.*: *Megachile brevis* ♀, 1, *Xanthosarus* ♀, se, 2; *Eucer.*: *Melissodes agilis* ♀, 1, *simillima* ♀, se, 2.

Short-tongued Bees (7: 13)—*Halict.*: *Agapostemon radiatus* ♂ ♀, se, 2, *Augoehlora fervida* ♂, 1, *Chloralictus versatus* ♂, 2, *Odontalictus* ♂ ♀, se, 3; *Andren.*: *Pterandrena asteris* ♀, se, 2, *solidaginis* ♀, se, 2; *Panurg.*: *Pseudopanurgus compositarum* ♀, 1.

Other Hymenoptera (2: 4)—*Sphec.*: *Sphex procera* 3; *Eumen.*: *Leionotus arvensis* 1.

Diptera (16: 26)—*Syrph.*: *Eristalis tenax* f, 2, *Helophilus similis* 1, *Syrpitta* 1, *Syrphus americanus* f, 1, *ribesii* 2; *Bombyli.*: *Sparnopolius* 2; *Conop.*: *Physocephala texana* 1, *Stylogaster bianulata* 3; *Tachin.*: *Alophora aeneoventris* 1, *Archytas analis* 3, *Spallanzania* 1; *Musc.*: *Compsomyia* 3, *Graphomyia* 1, *Lucilia caesar* 1, *sylvarum* 1, *Pseudopyrellia* 2.

Lepidoptera (8: 20)—*Nymphal.*: *Anosia* 1, *Euptoieta* 1, *Vanessa cardui* 1, *huntera* 1; *Papilion.*: *Eurymus* 12; *Hesper.*: *Atalopedes* 2, *Hesperia* 1, *Hylephila* 1.

Coleoptera (1: 2)—*Chrysomel.*: *Diabrotica 12-punctata* 2.

Aster turbinellus.—Blooms August 21–November 4; 26 species and 56 individuals observed, September 20–October 8; Mas, R.

Long-tongued Bees (11: 32)—*Ap.*: *Apis* sc, 6; *Bomb.*: *Bombias auricomus* ♂, 1, *Bombus americanorum* ♂ ♀, se, 4, *impatiens* ♀, se, 7; *Megachil.*: *Megachilini*: *Megachile brevis* ♀, se, 1, *Xanthosarus* ♀, c, 1; *Coelioxysi*: *Coelioxys sayi* ♂, 1; *Nomad.*: *Holonomada placida* ♀, 1; *Eucer.* (♀): *Melissodes autumnalis* se, 8, *nivea* se, 1, *simillima* 1.

Short-tongued Bees (3: 3)—*Halict.*: *Agapostemon viridulus* ♂, 1, *Curtisapis fuscipennis* ♂, 1; *Collet.*: *Colletes compactus* ♀, se, 1.

Diptera (8: 13)—*Syrph.*: *Helophilus similis* 1, *Mesogramma marginata* 1, *Pterallastes* f, 1, *Syritta* 2, *Syrphus arcuatus* 1; *Bombyli.*: *Anthrax haleyon* 1, *Sparnopolius* 2, *Systropus* 3.

Lepidoptera (2: 6)—*Nymphal.*: *Phyciodes* 3; *Hesperid.*: *Atalopedes* 3.

Coleoptera (2: 3)—*Chrysomel.*: *Diabrotica 12-punctata* 2; *Lampyr.*: *Chauliognathus pennsylvanicus* 1.

Bidens aristosa (15: 473-4).—Blooms August 6–October 2; 133 visitors observed August 26–October 2; Mas, Y.

Long-tongued Bees (37)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♂, *scutellaris* ♂ ♀, *separatus* ♂ ♀, fq, *Bombus americanorum* ♂ ♀, se, ab, *impatiens* ♂ ♀ ♀, se, ab, *Psithyrus variabilis* ♀; *Ceratin.*: *Ceratina* ♀, se; *Megachil.*: *Trypetini*: *Neotrypetes productus* ♂, *truncatus* ♂ ♀, se; *Megachilini*: *Megachile brevis* ♂ ♀, se, fq, *mendica* ♀, se, *petulans* ♂ ♀, se; *Coelioxysi*: *Coelioxys 8-dentata* ♀, *sayi* ♂; *Nomad.*: *Holonomada vineta* ♂, *Nomada vicina* ♂; *Epeol.*: *Epeolus autumnalis* ♂, *bifasciatus* ♀, *coreopsis* ♂, *type*, *pusillus* ♂ ♀, fq, *Triepeolus concavus* ♂, *concolor* ♂ ♀, *cressonii* ♂ ♀, fq, *donatus* ♂ ♀, *lunatus* ♀, *pectoralis* ♂, *remigatus* ♂; *Eucer.*: *Epimelissodes atripes* ♀, *obliqua* ♂ ♀, se, *Melissodes agilis* ♂ ♀, fq, *autumnalis* ♂ ♀, se, *bimaculata* ♀, *boltoniae* ♀, se, ab, *nivea* ♂, *simillima* ♂, *trinodis* ♂ ♀, se, fq.

Short-tongued Bees (22)—*Halict.*: *Agapostemon radiatus* ♀, se, *viridulus* ♂ ♀, se, *Augochlora viridula* ♀, se, *Chloralictus pruinus* ♂, *Curtisapis coriacea* ♂, *Odontalictus* ♀, se, *Oxystoglossa pura* ♀; *Collet.*: *Colletes armatus* ♀, *compactus* ♂ ♀, fq, *eulophi* ♀, se; *Dufoure.*: *Halictoides* ♂; *Andren.*: *Pterandrena aliciae* ♀, se, *helianthi* ♂, *pulchella* ♂ ♀, se; *Panurg.*: *Calliopsis andreniformis* ♀, *coloradensis* ♂ ♀, se, in cop, *Perdita* ♂ ♀, se, ab, in cop, *Pseudopanurgus compositarum* ♂, *labrosiformis* ♀, se, *rudbeckiae* ♂ ♀, se, ab, *rugosus* ♀, se, *solidaginis* ♂.

Other Hymenoptera (18)—*Philanth.*: *Cerceris prominens*, *fulvipes*; *Sphec.*: *Sceliphron*, *Sphex gracilis*, *nigricans*; *Bembic.*: *Bembix nubillipennis*, *spinolae*, *Bicyrtes 4-fasciata*, *ventralis*; *Nyson.*: *Pseudoplisus divisus*; *Vesp.*: *Vespa germanica*; *Eumen.*:

Ancistrocerus tigris, *Leionotus histrionalis*; *Scoli.*: *Elis 5-eineta*, *Scolia bicineta* ab, *Ichneumon.*: *Ceratosoma*, *Exetastes suaveolens* fq; *Bracon.*: *Aenignostomus*.

Diptera (34)—*Syrph.*: *Eristalis dimidiatus* fq, *latifrons*, *transversus*, *vinetorum*, *Mesogramma polita* f, n, *Milesia*, *Orthoncra nitida* f, n, *Syrphus americanus* f, n; *Bombyli.*: *Anthrax haleyon*, *Exoprosopa decora*, *fasciata* fq, *fascipennis* fq, *Lepidophora*, *Sparnopolius* ab, *Systropus* in cop., *Toxophora*; *Conop.*: *Physocephala texana*, *Robertsonomyia*, *Zodion fulvifrons*; *Tachin.*: *Actia*, *Api-nops*, *Archytas aterrima* fq, *Leskiomima secunda*, *Oeyptera tenuis*, *Peleteria* fq, *Senotainia trilineata*, *Siphoplugia anomala* fq, *Spallanzania*; *Dexi.*: *Ptilodexia*, *Scotiptera* fq; *Musc.*: *Compsomyia*, *Lucilia caesar*; *Anthomy.*: *Phorbia platura*, *Proboscemyia*.

Lepidoptera (15)—*Nymphal.*: *Anosia* fq, *Argynnis*, *Basilarchia archippus*, *astyanax*, *Phyciodes*, *Vanessa cardui* fq; *Papilion.*: *Eury-mus*, *Laertias*, *Nathalis*, *Papilio*, *Pieris*; *Hesper.*: *Epargyreus*, *Limochores taumas*, *Thanaos juvenalis*; *Noctu.*: *Heliothis armiger*.

Coleoptera (6)—*Calandry.*: *Rhodobaenus* gn, n; *Chrysomel.* (f, n): *Chrysomela*, *Diabrotica 12-punctata*; *Lampyr.*: *Chauliognathus pennsylvanicus* ab, in cop; *Melo* (f, n): *Epicauta cinerea*, *pennsylvanica*.

Hemiptera (1)—*Pentatom.*: *Euschistus variolarius*.

Bidens bipinnata.—Blooms August 17–October 26; 11 visitors observed, August 29 and September 12; Mas, Y.

Long-tongued Bees (6)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Trypetini*: *Neotrypetes truncatus* ♀; *Megachilini*: *Anthemois* ♀, se, *Sayapis sayi* ♀; *Coelioxysi*: *Coelioxys sayi* ♂.

Diptera (4)—*Syrph.*: *Syrirta*; *Empid.*: *Parempis*; *Tachin.*: *Siphona*, *Trichophora*.

Lepidoptera (1)—*Papilion.*: *Pieris*.

Bidens connata.—Blooms September 3–26; 2 visitors observed, September 22; Mas, Y.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♂ ♀, fq, *impatiens* ♀.

Bidens frondosa.—Blooms August 27–October 2; 11 visitors observed, August 27 and September 11; Mas, Y.

Long-tongued Bees (2)—*Ap.*: *Apis*; *Bomb.*: *Bombus impatiens* ♀.

Short-tongued Bees (3)—*Halict.*: *Odontalictus* ♂, *Oxystoglossa confusa* ♀; *Collet.*: *Colletes compactus* ♂.

Other Hymenoptera (1)—*Sphex*.: *Sphex vulgaris*.

Diptera (4)—*Syrph*.: *Tropidia albistylum*; *Bombyli*.: *Exoprosopa decora*; *Tachin*.: *Peleteria*, *Spallanzania*.

Lepidoptera (1)—*Nymphal*.: *Charidryas*.

Bidens laevis (15: 474).—Blooms August 26–October 17; 52 visitors observed, September 20, 22; Mas, Y.

Long-tongued Bees (15)—*Ap*.: *Apis* ab; *Bomb*.: *Bombias scutellaris* ♂, *separatus* ♂, *Bombus americanorum* ♂ ♀, *impatiens* ♀; *Ceratin*.: *Ceratina* ♀; *Megachil*.: *Megachile brevis* ♂ ♀, *se*, *fq*, *mendica* ♂, *petulans* ♂, *Xanthosarus* ♀, *se*; *Epeol*.: *Epeolus autumnalis* ♀, *type*; *Eucer*.: *Melissodes agilis* ♀, *boltoniae* ♀, *se*, *fq*, *simillima* ♂, *trinodis* ♀.

Short-tongued Bees (4)—*Halict*.: *Chloralictus versatus* ♀, *se*, *Odontalictus* ♂; *Collet*.: *Colletes compactus* ♂ ♀, *se*, *fq*; *Andren*.: *Pterandrena aliciae* ♀, *se*, *type*.

Other Hymenoptera (5)—*Vesp*.: *Polistes annularis*, *pallipes*; *Eumen*.: *Eumenes fraternus*; *Scoli*.: *Scolia bicincta* *fq*; *Ichneu-*
mon.: *Exetastes suaveolens*.

Diptera (12)—*Syrph*.: *Eristalis dimidiatus* ab, *transversus* ab, *Helophilus similis*, *Mesogramma marginata*; *Bombyli*.: *Anthrax haleyon*, *Sparnopolius* *fq*, *Systoechus*; *Tachin*.: *Archytas aterrima* *fq*, *Siphoplugia anomala*; *Musc*.: *Compsomyia* *fq*, *Pseudopyrellia* *fq*; *Anthomy*.: *Hydrophoria*.

Lepidoptera (14)—*Nymphal*.: *Anosia* ab, *Basilarchia archippus*, *Phyciodes*, *Vanessa atalanta*, *huntera*; *Lycaen*.: *Chrysophanus*; *Papilion*.: *Eurymus* *fq*; *Hesper*.: *Atalopedes*, *Hylephila*; *Ctenuch*.: *Scepsis*; *Noctu*.: *Feltia*, *Heliothis armiger*, *dipsaceus*, *Plusia simplex*.

Coleoptera (2)—*Chrysomel*.: *Diabrotica 12-punctata* f, n; *Lampyr*.: *Chauliognathus pennsylvanicus* ab.

Boltonia asteroides (15: 458–9).—Blooms August 8–October 4; 138 visitors observed, August 25–October 4; Mis, W.

Long-tongued Bees (21)—*Ap*.: *Apis* *se*, ab; *Bomb*.: *Bombias scutellaris* ♂, *Bombus americanorum* ♂ ♀, *impatiens* ♂ ♀, *se*; *Megachil*.: *Trypetini*: *Neotrypetes truncatus* ♀, *se*; *Megachilini*: *Megachile brevis* ♂ ♀, *se*, *fq*, *mendica* ♀, *6-dentata* ♀, *se*, *Xanthosarus* ♀, *se*; *Coelioxyni*: *Coelioxys 8-dentata* ♂; *Nomad*.: *Holonomada placida* ♂ ♀; *Epeol*.: *Epeolus bifasciatus* ♀, *pusillus* ♂ ♀, *Triepeolus cressonii* ♂ ♀, *fq*, *pectoralis* ♂ ♀, *fq*; *Eucer*.: *Epimelissodes obliqua* ♀, *se*, *Melissodes asteris* ♀, *se*, *autumnalis* ♂ ♀, *se*, *boltoniae* ♀, *se*, *fq*, *type*, *nivea* ♀, *se*, *simillima* ♂ ♀, *se*, ab.

Short-tongued Bees (20)—*Halict.*: *Agapostemon radiatus* ♀, *Chloralictus obscurus* ♂, *pruinus* ♂ ♀, *se*, *sparsus* ♀, *se*, *versatus* ♂ ♀, *se*, *fq*, *Halictus parallelus* ♂, *Odontalictus* ♂ ♀, *se*, *Seladonia* ♀; *Sphecodini*: *Sphecodium cressonii* ♂ ♀; *Prosopid.*: *Prosopis pygmaea* ♂ ♀, *ab*, *ziziae* ♂; *Collet.*: *Colletes americanus* ♂ ♀, *se*, *ab*, *compactus* ♂, *eulophi* ♀; *Andren.*: *Pterandrena solidaginis* ♂ ♀, *se*, *fq*, *in cop*; *Panurg.*: *Calliopsis coloradensis* ♂ ♀, *se*, *ab*, *in cop*, *Perdita* ♂ ♀, *se*, *fq*, *Perditella boltoniae* ♂ ♀, *se*, *oligolege*, *type*, *Pseudopanurgus compositarum* ♂ ♀, *se*, *ab*, *type*, *solidaginis* ♀, *se*.

Other Hymenoptera (12)—*Sphec.*: *Priononyx thomae*, *Sphex nigricans*, *pictipennis*; *Bembic.*: *Bembix spinolae*; *Scoli.*: *Seolia bicincta*; *Philanth.*: *Cerceris fulvipes*; *Vesp.*: *Polistes variatus*; *Eumen.*: *Leionotus anormis*, *elypeatus*; *Larr.*: *Astatus unicolor*, *Larropsis*; *Ichneumon.*: *Ceratosoma*.

Diptera (60)—*Syrph.*: *Baccha clavata*, *Eristalis dimidiatus* sf, *latifrons*, *Mesogramma geminata*, *marginata* sf, *polita* f, n, *Paragus tibialis* sf, *Sphaerophoria* sf, *Spilomyia longicornis*, 4-fasciata, *Syrpitta* sf, *ab*, *Syrphus americanus* sf; *Empid.*: *Parempis*; *Bombyli.*: *Anthrax fulvohirta*, *Sparnopolius* *ab*, *Systoechus*, *Systropus*, *Toxophora*; *Conop.*: *Oncomyia*, *Zodion fulvifrons*, *nanellum*, *Robertsonomyia* *in cop*; *Tachin.*: *Alophora aeneoventris*, *Archytas analis*, *Cistogaster oecidua*, *pallasii*, *Epigrimyia floridensis*, *Euaecemyia*, *Gymnosoma*, *Hypostena variabilis*, *Leucostoma atra*, *neomexicana*, *Ennyomma globosa*, *nigrifrons*, *Ocyptera dosiades*, *Pachyophthalmus signatus*, *Paradidyma*, *Peleteria*, *Phoranthia humeralis*, *magna*, *purpurascens* *fq*, *Senotainia rubriventris*, *trilineata* *fq*, *Siphoplaga anomala*, *Spallanzania* *fq*; *Dexi.*: *Myocera*; *Sarcophag.*: *Helicobia helieis*, *Sarcophaga hunteri*, *sinuata*; *Musc.*: *Compsomyia*, *Graphomyia*, *Lucilia sericeata*, *Pseudopyrellia*, *Stomoxys*; *Anthomy.*: *Anthomyiella*, *Calythea*, *Limnophora*, *Proboscimyia*; *Seps.*: *Sepsis*; *Trypet.*: *Trypeta humilis* *ab*.

Lepidoptera (20)—*Nymphal.*: *Anosia*, *Junonia*, *Phyciodes*, *Vanessa cardui*, *huntera*; *Lycaen.*: *Chrysophanus*, *Everes*, *Heodes*, *Uranotes*; *Papilion.*: *Eurymus* *fq*, *Pieris*, *Pontia*; *Hesper.*: *Ancyloxypha*, *Hesperia*, *Hylephila*, *Limochores taumas*, *Polites*; *Arcti.*: *Utetheisa*; *Ctenuch.*: *Seepsis*; *Noctu.*: *Heliothis armiger*.

Coleoptera (4)—*Chrysomel.* (f, *fq*, n): *Diabrotica 12-punctata*, *longicornis*; *Coccinell.*: *Hippodamea parenthesis* f, n; *Lampyr.*: *Chauliognathus pennsylvanicus* *fq*.

Hemiptera (1)—*Caps.*: *Lygus* *fq*.

October 15, 17, the following 40 species and 186 individuals were taken as they came to the flowers:

Long-tongued Bees (8: 66)—*Ap.*: *Apis* 3; *Megachil.*: *Megachile brevis* 3; *Epeol.*: *Epeolus pusillus* 1, *Triepeolus cressonii* 1; *Eucer.*: *Melissodes asteris* 2, *boltoniae* 2, *nivea* 3, *simillima* 51.

Short-tongued Bees (5: 20)—*Halict.*: *Chloralictus versatus* 13; *Panurg.*: *Calliopsis coloradensis* 1, *Perdita* 3, *Pseudopanurgus compositarum* 2, *solidaginis* 1.

Other Hymenoptera (1: 1)—*Eumen.*: *Leionotus anormis* 1.

Diptera (17: 79)—*Syrph.*: *Eristalis latifrons* 3, *Mesogramma geminata* 1, *marginata* 2, *polita* 2, *Syritta* 7; *Bombyli.*: *Sparnophilus* 39; *Conop.*: *Zodion fulvifrons* 1; *Tachin.*: *Cistogaster occidua* 1, *Phoranthia humeralis* 5, *magna* 1, *Senotainia rubriventris* 5, *trilineata* 2, *Siphoplaga anomala* 1, *Spallanzania* 2; *Sarcophag.*: *Helicobia helcis* 1; *Musc.*: *Graphomyia* 1; *Anthomy.*: *Limnophora* 5.

Lepidoptera (6: 9)—*Nymphal.*: *Anosia* 1, *Phyciodes* 3; *Papilion.*: *Eurymus* 2; *Hesper.*: *Hylephila* 1, *Limochores taumas* 1, *Polites* 1.

Coleoptera (3: 11)—*Chrysomel.*: *Diabrotica 12-punctata* 1, *longicornis* 1; *Lampyr.*: *Chauliognathus pennsylvanicus* 9.

Brauneria pallida (15: 465-6).—Blooms May 25-June 30; 38 visitors observed, May 25-June 21; Mas, R.

Long-tongued Bees (14)—*Ap.*: *Apis* sc; *Bomb.* (♀): *Bombias auricomus*, *separatus*, *Bombus americanorum*, *Psithyrus variabilis*; *Ceratin.*: *Ceratina* ♀, sc; *Megachil.*: *Megachilini*: *Cyphopyga* ♂, *Megachile brevis* ♂ ♀, *mendica* ♀, *Sayapis pugnata* ♂; *Coelioxyni*: *Coelioxys 8-dentata* ♂; *Xylocop.*: *Xylocopa* ♀; *Nomad.*: *Holonomada affabilis* ♂ ♀, *superba* ♀.

Short-tongued Bees (9)—*Halict.* (♀): *Agapostemon texanus* sc, *viridulus* sc, *Chloralictus pilosus*, *pruinus*, *versatus* sc, *Odontalictus* sc, *Oxystoglossa confusa*, *similis*; *Panurg.*: *Pseudopanurgus albitarsis* ♂ ♀, sc.

Other Hymenoptera (1)—*Sphec.*: *Sphex nigricans*.

Diptera (1)—*Tachin.*: *Spallanzania*.

Lepidoptera (12)—*Nymphal.*: *Anosia*, *Basilarchia archippus*, *Charidryas*, *Vanessa atalanta*, *huntera*; *Lycaen.*: *Chrysophanus*; *Papilion.*: *Eurymus*, *Papilio*, *Pontia*; *Hesper.*: *Limochores taumas*, *Polites*; *Sphinx.*: *Hemaris thysbe*.

Coleoptera (1)—*Cerambyc.*: *Typocerus sinuatus* f, n.

Brauneria purpurea (15: 466).—Blooms June 16-September 26; 48 visitors observed, July 8-September 14; Mas, R.

Long-tongued Bees (16)—*Ap.*: *Apis* fq; *Bomb.*: *Bombias auricomus* ♂ ♀, *scutellaris* ♀, *separatus* ♂ ♀, *Bombus americanorum*

♂ ♀, impatiens ♀, Psithyrus variabilis ♀; *Ceratin.*: Ceratina ♀, se; *Megachil.*: Osmiini: Ashmeadiella ♀, se; Megachilini: Megachile brevis ♀, petulans ♀, se, Sayapis sayi ♂; *Epeol.*: Tripeolus concavus ♀; *Eucer.*: Epimelissodes obliqua ♂ ♀, se, fq, Melissodes bimaculata ♂ ♀, eniei ♀.

Short-tongued Bees (7)—*Halict.*: Agapostemon viridulus ♂ ♀, se, Chloralictus pilosus ♀, se, sparsus ♀, se, versatus ♀, Evylaeus pectoralis ♀, se, Odontalictus ♀, se, fq; *Panurg.*: Pseudopanurgus albitarsis ♀, se.

Other Hymenoptera (3)—*Sphec.*: SpheX nigricans, procera; *Larr.*: Tachytes aurulentus.

Diptera (9)—*Syrph.*: Volucella vesiculosa; *Empid.*: Parempis; *Bombyli.*: Anthrax haleyon, parvicornis, Exoprosopa decora, fasciata, Geron rufipes, Systoechus; *Conop.*: Zedion obliquefasciatum.

Lepidoptera (13)—*Nymphal.*: Anosia, Argynnis, Charidryas, Euptoietia, Vanessa cardui, huntera; *Papilion.*: Euphœades, Eurymus, Jasoniades, Pieris, Pontia; *Hesper.*: Hesperia, Thorybes bathyllus.

Cacalia atriplicifolia.—Blooms July 28—September 20; 10 visitors observed, August 4; Mis, W.

Short-tongued Bees (2, ♀, c)—*Halict.*: Chloralictus sparsus, Odontalictus.

Other Hymenoptera (7)—*Crabron.*: Solenius; *Oxybel.*: Notoglossa americana, Oxybelus 4-notatus; *Philanth.*: Philanthus punctatus; *Sphec.*: SpheX vulgaris; *Eumen.*: Eumenes fraternus; *Scoli.*: Scolia bicincta.

Diptera (1)—*Empid.*: Parempis ab.

Cacalia reniformis.—Blooms June 25—July 31; 39 visitors observed, June 25—July 16; Mis, W.

Long-tongued Bees (5)—*Ap.*: Apis; *Ceratin.*: Ceratina ♀, se, Zaodontomerus ♂; *Megachil.*: Neotrypetes truncatus ♀, se; *Eucer.*: Melissodes bimaculata ♀.

Short-tongued Bees (11)—*Halict.*: Agapostemon radiatus ♂, Angoehloria viridula ♂ ♀, fq, Chloralictus eressonii ♂, sparsus ♀, versatus ♀, se, fq, zephyrus ♀, Evylaeus foxii ♂, pectoralis ♂ ♀, Oxystoglossa pura ♀, fq; *Prosopid.*: Prosopis pygmaea ♂, sayi ♂.

Other Hymenoptera (11)—*Sphec.*: SpheX gracilis, nigricans, vulgaris; *Eumen.*: Ancistrocerus tigris, fq, Eumenes fraternus, Leionotus dorsalis, fundatus fq, perennis, 4-sectus, ziziae; *Crabron.*: Solenius.

Diptera (9)—*Tipul.*: Geranomyia; *Syrph.*: Sphaerophoria,

Syrretta fq; *Empid.*: Parempis fq; *Conop.*: Oncomyia, Zodion nanelum; *Tachin.*: Epigrimyia floridensis, Senotainia trilineata, Siphona fq.

Lepidoptera (1)—*Sesi.*: Sesia 6-fasciata.

Hemiptera (2)—*Caps.*: Lopidea fq; *Lygae.*: Melanocoryphus.

Cacalia tuberosa.—Blooms June 17–July 17; 5 visitors observed, July 4; Mis, W.

Short-tongued Bees (1)—*Halict.*: Sphecodes arvensis ♂.

Other Hymenoptera (1)—*Scoli.*: Elis 5-cincta.

Lepidoptera (2)—*Lycaen.*: Chrysophanus; *Ctenuch.*: Scepasis.

Hemiptera (1)—*Lygae.*: Lygaeus.

Chrysanthemum leucanthemum (int.).—Blooms May 24–August 16; 22 visitors observed, May 28–June 21; Mis, W.

Long-tongued Bees (6)—*Ceratin.*: Ceratina ♀, sc; *Stelid.*: Chelynia ♂, Microstelis ♂ ♀, fq; *Megachil.*: Neotrypetes truncatus ♀, sc, Alcideamea simplex ♂; *Nomad.*: Centrias americanus ♂ ♀.

Short-tongued Bees (3)—*Halict.* (♀, sc, ab): Odontalictus, Oxystoglossa similis; *Panurg.*: Calliopsis andreniformis ♂, ab.

Other Hymenoptera (1)—*Eumen.*: Leionotus ziziae.

Diptera (11)—*Syrph.*: Eristalis latifrons, Sphaerophoria, Syrretta, Tropidia mamillata; *Empid.*: Parempis fq, type; *Conop.*: Zodion fulvifrons; *Tachin.*: Distichona varia, Leucostoma atra, Phorantha purpurascens ab; *Musc.*: Pseudopyrellia; *Anthomy.*: Phorbia platura.

Coleoptera (1)—*Scarabae.*: Trichius piger f.

Cirsium altissimum (15: 475).—Blooms July 23–October 23; 23 visitors observed, August 14–October 23; Mas, R.

Long-tongued Bees (13)—*Ap.*: Apis sc; *Bomb.*: Bombus auricomus ♂ ♀, scutellaris ♂ ♀, Bombus americanorum ♂ ♀, sc, fq, consimilis ♂ ♀, sc, impatiens ♂ ♀, sc, Psithyrus variabilis ♂; *Ceratin.*: Ceratina ♀; *Megachil.*: Neotrypetes truncatus ♀, sc, n; *Epeol.*: Triepeolus donatus ♂ ♀; *Eucer.*: Epimelissodes obliqua ♀, c, Melissodes agilis ♂, enici ♂ ♀, sc, fq.

Short-tongued Bees (2)—*Halict.*: Agapostemon viridulus ♂, Chloralictus sparsus ♀, c, n.

Lepidoptera (8)—*Nymphal.*: Argynnis, Basilarchia archippus, Vanessa atalanta; *Papilion.*: Euphroeades, Heraclides, Jasoniades; *Sphing.*: Deilephila, Hemaris thysbe.

Cirsium discolor (51: 475).—Blooms July 29–October 20; 31 visitors observed, August 21–October 20; Mas, R.

Long-tongued Bees (14)—*Bomb.*: *Bombias auricomus* ♂ ♀ ♀, se, fq, *scutellaris* ♂ ♀, se, *separatus* ♂ ♀, *Bombus americanorum* ♂ ♀ ♀, se, ab, *impatiens* ♀ ♀, se, *Psithyrus variabilis* ♂ ♀, ab; *Megachil.*: *Xanthosarus* ♂ ♀, se, fq; *Epeol.*: *Triepeolus concavus* ♂ ♀; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, se, ab, *Melissodes agilis* ♂, *enici* ♂ ♀, se, ab, *coloradensis* ♀, se, *variabilis* ♂; *Emphor.*: *Melittoma* ♀.

Short-tongued Bees (5, ♀, c, n)—*Halict.*: *Chloralictetus pruinosus*, *sparsus*, *versatus*, *Odontalictus*; *Collet.*: *Colletes eulophi*.

Diptera (2)—*Bombyli.*: *Exoprosopa fasciata*, *Systoechus*.

Lepidoptera (9)—*Nymphal.*: *Anosia*, *Argynnis*, *Speyeria*, *Vanessa cardui*; *Papilion.*: *Callidryas*, *Heraclides*, *Papilio*; *Sphinx.*: *Deilephila*, *Hemaris thysbe*.

Coleoptera (1)—*Chrysomel.*: *Diabrotica longicornis* f, n.

Cirsium lanceolatum (int, 15: 475-6).—Blooms June 24-October 27; 48 visitors observed, July 3-October 27; Mas, R.

Long-tongued Bees (25)—*Bomb.*: *Bombias auricomus* ♀, *separatus* ♂ ♀, fq, *Bombus americanorum* ♂ ♀ ♀, se, ab, in cop, *consimilis* ♀, *impatiens* ♀, fq, *Psithyrus laboriosus* ♂, *variabilis* ♂; *Megachil.*: *Megachile 6-dentata* ♂, *type*, *Xanthosarus* ♀, se, fq; *Epeol.*: *Triepeolus concavus* ♂, *concolor* ♂ ♀, fq, *donatus* ♂, *nevadensis* ♂, *remigatus* ♀; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, fq, *Melissodes agilis* ♂, *bimaculata* ♀, *enici* ♂ ♀, se, ab, in cop, *type*, *coloradensis* ♂, *comptoides* ♂ ♀, *simillima* ♂, *trinodis* ♀, *variabilis* ♀; *Emphor.*: *Emphor* ♂; *Anthophor.*: *Amegilla* ♂.

Short-tongued Bees (6)—*Halict.*: *Agopostemon radiatus* ♂, *texanus* ♀, se, *viridulus* ♂ ♀, se, *Chloralictetus pilosus* ♀, c, n, *Odontalictus* ♀, c, n; *Nomi.*: *Paranomia* ♀.

Diptera (3)—*Bombyli.*: *Exoprosopa fasciata*, *Systoechus* fq; *Conop.*: *Physocephala tibialis*.

Lepidoptera (14)—*Nymphal.*: *Anosia*, *Phyciodes*, *Speyeria*; *Papilion.*: *Euphœades*, *Eurymus*, *Jasoniades*, *Papilio*, *Pontia*, *Xanthidia*; *Hesperi.*: *Atrytone zabulon*, *Limochores taumas* fq, *Polites*, *Thorybes bathyllus*; *Ctenuch.*: *Seepsis*.

Cirsium pumilum—Blooms May 25-June 29; 17 visitors observed, May 29, June 26; Mas, R.

Long-tongued Bees (4, ♀)—*Bomb.*: *Bombus americanorum*, *Psithyrus variabilis*; *Megachil.*: *Cyphopyga* se, *Sayapis pugnata* se.

Short-tongued Bees (1)—*Halict.*: *Evylæus pectoralis* ♀, c, n.

Lepidoptera (9)—*Nymphal.*: *Anosia*, *Argynnis* ab, *Speyeria*; *Papilion.*: *Euphœades*, *Eurymus*, *Heraclides*, *Laertias*; *Hesperi.*: *Polites*, *Thorybes bathyllus*.

Coleoptera (2, f, n)—*Cerambyc.*: *Typocerus sinuatus*; *Scarabae.*: *Trichius piger* gn, in cop, ab.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

Coreopsis palmata (15:472).—Blooms June 3—July 24; 116 visitors observed, June 6—July 2; Mas, Y.

Long-tongued Bees (33)—*Ap.*: *Apis* sc; *Bomb.*: *Bombus americanorum* ♀ ♀; *Ceratin.*: *Ceratina* ♀, sc, fq; *Stelid.*: *Anthidium cognatum* ♂, *Microstelis* ♀; *Megachil.*: Trypetini: *Neotrypetes truncatus* ♂ ♀, sc; Osmiini: *Alcidamea simplex* ♀, *Ashmeadiella* ♂ ♀, *Gnathosmia* ♀, sc; *Megachilini*: *Chelostomoides* ♂, *Cyphopyga* ♂, *Megachile addenda* ♂, *brevis* ♂ ♀, sc, ab, in cop, *mendica* ♂ ♀, *petulans* ♂, *6-dentata* ♂ ♀, sc, *Sayapis pollicaris* ♂ ♀, sc, *pugnata* ♂ ♀, sc, fq, *Xanthosarus* ♀; *Coelioxysi*: *Coelioxys 8-dentata* ♂ ♀, ab, *sayi* ♂ ♀; *Nomad.*: *Centrias americanus* ♀, *erigerontis* ♂ ♀, *Holonomada superba* ♀; *Pasit.*: *Holcopasites illinoensis* ♂ ♀, fq; *Epeol.*: *Epeolus bifasciatus* ♂, *interruptus* ♂ ♀; *Melect.*: *Melecta* ♂; *Eucer.*: *Melissodes agilis* ♂, *boltoniae* ♀, sc, *coreopsis* ♂ ♀, sc, fq, *oligolege*, *type*, *petalostemonis* ♀, ab, *trinodis* ♀, sc.

Short-tongued Bees (21)—*Halict.*: *Agapostemon radiatus* ♀, sc, *texanus* ♀, *viridulus* ♀, *Augochlora fervida* ♀, *Chloralictus coreopsis* ♂ ♀, sc, fq, *type*, *obscurus* ♂, *pilosus* ♂ ♀, sc, fq, *pruinus* ♂ ♀, sc, *tegularis* ♂, *versatus* ♂ ♀, sc, ab, *Evyllaenus arcuatus* ♀, sc, *foxii* ♂, *pectoralis* ♂ ♀, sc, *Halictus lerouxii* ♂ ♀, sc, *Odontalictus* ♂ ♀, sc, fq, *Oxystoglossa confusa* ♂ ♀, *similis* ♂ ♀, sc, *Seladonia* ♂ ♀, sc; *Andren.*: *Pterandrena rudbeckiae* ♂ ♀; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, ab, *Pseudopanurgus albitarsis* ♂ ♀.

Other Hymenoptera (14)—*Sphec.*: *Priononyx atrata*, *thomae*, *Sphex pictipennis*, *nigricans*, *procera*, *vulgaris*; *Bembic.*: *Bembix spinolae*, *Bicyrtes ventralis*, *Stictiella*; *Philanth.*: *Cerceris prominens*; *Eumen.*: *Leionotus anormis*, *arvensis*, *histrionalis*; *Bracon.*: *Toxoneuron abdominale*.

Diptera (30)—*Stratiomy.*: *Odontomyia nigrirostris*; *Syrph.*: *Eristalis flavipes*, *latifrons*, *tenax*, *transversus*, *Helophilus latifrons*, *Mesogramma marginata*, *Sphaerophoria*, *Syrphus ribesii*; *Bombyli.*: *Anthrax parvicornis*, *Exoprosopa decora*, *emarginata*, *Geron rufipes*, *Systoechus*, *Thripsogaster* fq, *Toxophora*; *Conop.*: *Oncomyia*, *Physocephala tibialis*, *Zodion fulvifrons*; *Tachin.*: *Archytas analis*, *Euphorocera claripennis*, *Linnaemyia*, *Ocyptera lata*, *Peleteria*, *Spallanzania*; *Musc.*: *Lucilia caesar*, *Pseudopyrellia*, *Stomoxys*; *Anthomy.*: *Proboscimyia*; *Agromyz.*: *Eusiphona*.

Lepidoptera (14)—*Nymphal.*: *Argynnis*, *Phyciodes*, *Vanessa huntera*; *Lycaen.*: *Uranotes*; *Papilion.*: *Euphoeades*, *Eurymus*,

Pieris, Pontia; *Hesperis*: *Atrytone zabulon*, *Limochores taumas*, *Pholisora catullus*, *Thanaos juvenalis*; *Ctenuch.*: *Seepsis*; *Noctu.*: *Plusia simplex*.

Coleoptera (4)—*Cerambyc.*: *Typoecerus sinuatus* f, n; *Melo.*: *Epicauta cinerea* f, n; *Mordell.*: *Mordella marginata*, *scutellaris* f, n.

Coreopsis tripteris (15:472-3).—Blooms July 23-September 26; 53 visitors and 185 individuals observed, August 12-September 3; Mas, Y.

Long-tongued Bees (18:83)—*Ap.*: *Apis* se, 1; *Bomb.*: *Bombus americanorum* ♂ ♀, 13, *impatiens* ♀, 1; *Ceratin.*: *Ceratina* ♀, se, 5, *Megachil.* (♀): *Cyphopyga* 1, *Megachile brevis* se, 1, *petulans* se, 9; *Epeol.*: *Epeolus pusillus* ♀, 1, *Triepeolus concavus* ♀, 1, *donatus* ♀, 1, *lunatus* ♂, 1; *Eucer.*: *Epimelissodes obliqua* ♀, se, 32, *Melissodes agilis* ♂ ♀, 2, *autumnalis* ♂, 2, *coloradensis* ♀, se, 1, *nivea* ♂, 1, *simillima* ♂ ♀, 4, *trinodis* ♂, 6.

Short-tongued Bees (12:31)—*Halict.*: *Augochlora fervida* ♂, 1, *Chloralictus coreopsis* ♀, se, 1, *pilosus* ♀, 1, *tegularis* ♀, se, 1, *versatus* ♀, se, 1, *Curtisapis coriacea* ♂, 2, *Evylaeus pectoralis* ♀, 1, *Odontalictus* ♀, se, 13; *Andren.*: *Pterandrena pulchella* ♂ ♀, se, 4; *Panurg.*: *Calliopsis coloradensis* ♀, se, 1, *Pseudopanurgus labrosiformis* ♂ ♀, *type*, 2, *solidaginis* ♂, 3.

Other Hymenoptera (10:32)—*Sphec.*: *Sphex gracilis* 3, *nigricans* 2, *pietipennis* 2, *procera* 7, *vulgaris* 2; *Bembic.*: *Bicyrtes ventralis* 2; *Scoli.*: *Scolia bicincta* 9; *Philanth.*: *Philanthus punctatus* 1; *Eumen.*: *Leionotus anormis* 1, *arvensis* 2.

Diptera (9:34)—*Syrph.*: *Pipiza nigribarba* f, 1, *Syritta* 2; *Bombyli.*: *Anthrax haleyon* 4, *Lepidophora* 1, *Sparnopolius* 18, *Systoechus* 4; *Conop.*: *Zodion obliquefasciatum* 1; *Tachin.*: *Epi-grimyia geniculata* 1, *Siphoplusia anomala* 2.

Lepidoptera (3:4)—*Nymphal.*: *Anosia* 1, *Phyciodes* 1; *Hesperis*: *Limochores taumas* 2.

Coleoptera (1:1)—*Lampyr.*: *Chauliognathus pennsylvanicus* 1.

Erechthites hieracifolia.—Blooms August 20-September 25; 13 visitors observed, August 29-September 16; Mis, Y.

Long-tongued Bees (2)—*Ap.*: *Apis* ab; *Megachil.*: *Megachile brevis* ♀.

Short-tongued Bees (1)—*Halict.*: *Agapostemon radiatus* ♀.

Other Hymenoptera (8)—*Scoli.*: *Elis 5-cincta*; *Vesp.*: *Polistes pallipes*, *variatus*, *Vespula germanica*; *Eumen.*: *Ancistrocerus capra*, *Leionotus arvensis*, *Zethus*; *Pompil.*: *Arachnoproctonus*.

Diptera (1)—*Tachin.*: Archytas aterrima.

Lepidoptera (1)—*Lycaen.*: Chrysophanus.

Erigeron annuus.—Blooms May 26–September 15; 2 visitors observed, June 2 and 15; Mis, W.

Long-tongued Bees (1)—*Megachil.*: Neotrypetes truncatus ♀.

Diptera (1)—*Tachin.*: Apinops.

Erigeron canadensis.—Blooms August 16–October 29; 18 visitors observed, September 1, October 29; Mis, W.

Long-tongued Bees (1)—*Epeol.*: Epeolus pusillus ♂.

Short-tongued Bees (1)—*Halict.*: Chloralictus versatus ♀, sc.

Other Hymenoptera (7)—*Philanth.*: Cerceris clypeata, Eucerceris; *Vesp.*: Polistes variatus; *Eumen.*: Ancistrocerus tigris; *Crabron.*: Anacrabro; *Larr.*: Tachytes elongatus; *Ichneumon.*: Ceratosoma.

Diptera (9)—*Syrph.*: Eristalis tenax, Mesogramma marginata, Syrritta; *Conop.*: Oncomyia; *Tachin.*: Ocyptera lata, Senotainia trilineata; *Sarcophag.*: Helicobia helicis; *Musc.*: Musca, Pollenia, Pseudopyrellia.

Erigeron philadelphicus (15:461).—Blooms April 23–June 13; 64 visitors observed, May 14–June 5; Mis, W.

Long-tongued Bees (12)—*Ap.*: Apis; *Bomb.*: Bombias separatus ♀; *Ceratin.*: Ceratina ♂ ♀, sc, ab, Zaodontomerus ♂, fq; *Stelid.*: Microstelis ♂, fq; *Megachil.*: Trypetini: Neotrypetes truncatus ♂; Osmiini: Alcidamea simplex ♂ ♀, Gnathosmia ♀, sc; *Megachilini*: Megachile brevis ♂; *Nomad.*: Centrias americanus ♂ ♀, ab, Holonomada superba ♂, Nomada cressonii ♂.

Short-tongued Bees (14)—*Halict.* (♀): Agapostemon viridulus, Chloralictus albipennis, pilosus sc, sparsus, versatus sc, fq, Curtisapis coriacea sc, Evylaeus pectoralis sc, fq, Odontalictus sc, ab, Oxystoglossa confusa, similis sc, Seladonia sc, fq; *Sphecodini*: Sphecodium cressonii; *Prosopid.*: Prosopis pygmaea ♂; *Andren.*: Trachandrena mariae ♀.

Other Hymenoptera (5)—*Sphec.*: Sphecx vulgaris; *Eumen.*: Leionotus anormis ab, clypeatus ab, foraminatus, illinoensis type.

Diptera (20)—*Syrph.*: Mesogramma marginata, Paragus bicolor, tibialis, Sphaerophoria; *Bombyli.*: Aldrichia f, fq, *Conop.*: Oncomyia, Zodion fulvifrons fq; *Tachin.*: Apinops atra type, Cistogaster occidua ab, pallasii, Epigrimyia floridensis, Leucostoma atra, Phorantha purpurascens, Siphona; *Sarcophag.*: Helicobia helicis, Sarcophaga cimbeis, sinuata; *Musc.*: Pseudopyrellia; *Anthomy.*: Calythea, Phorbia platura.

Lepidoptera (7)—*Nymphal.*: Phyciodes; *Lycaen.*: Chrysophanus; *Papilion.*: Xanthidia; *Hesperi.*: Ancyloxypha, Limochores taumas, Polites; *Ctenuch.*: Seepsis.

Coleoptera (3, f, n)—*Chrysomel.*: Diabrotica 12-punctata; *Lampyr.*: Telephorus flavipes; *Scarabae.*: Trichius piger ab.

Hemiptera (3)—*Bcryn.*: Corizus; *Caps.*: Calocoris, Lygus.

Erigeron pulchellus.—Blooms April 27–June 7; 5 visitors observed, May 4; Mis, W.

Long-tongued Bees (2)—*Ceratin.*: Ceratina ♂; *Nomad.*: Centrias americanus ♀.

Short-tongued Bees (1)—*Halict.*: Odontalictus ♀, se.

Lepidoptera (2)—*Lycaen.*: Everes; *Hesperi.*: Thanaos juvenalis.

Erigeron ramosus (15:461–2).—Blooms May 17–September 15; 78 visitors observed, May 31–July 13; Mis, W.

Long-tongued Bees (12)—*Ap.*: Apis; *Ceratin.*: Ceratina ♂ ♀, se, fq, Zaodontomerus ♂; *Stelid.*: Microstelis ♂ ♀, fq, Stelidium ♂, fq; *Megachil.*: Neotrypetes productus ♂, truncatus ♂ ♀, se, ab; *Nomad.* (♀): Centrias americanus, erigerontis, type, Nomada denticulata; *Pasit.*: Holcopasites illinoensis ♂ ♀, fq; *Epeol.*: Epeolus bifasciatus ♂.

Short-tongued Bees (16)—*Halict.*: Chloralictus albipennis ♀, se, fq, pruinus ♀, se, sparsus ♀, se, tegularis ♀, se, versatus ♂ ♀, se, zephyrus ♂, Evylaeus pectoralis ♀, se, Odontalictus ♀, se, fq, Oxystoglossa similis ♀, se, Seladonia ♀, se, fq; Sphecodini: Machaeris stygia ♀, Sphecodium cressonii ♀; *Prosopid.*: Prosopis eulophi ♂, pygmaea ♀, ziziae ♀; *Collet.*: Colletes eulophi ♂.

Other Hymenoptera (10)—*Sphec.*: Sphex pictipennis; *Philanth.*: Cereceris clypeata; *Eumen.*: Leonotus anormis fq, clypeatus, histriionalis, ziziae; *Oxybel.*: Notoglossa frontalis; *Chrysid.*: Tetrachrysis montana; *Chalcid.*: Leucospis; *Bracon.*: Bracon longicauda.

Diptera (36)—*Syrph.*: Eristalis dimidiatus, latifrons, Mesogramma geminata, marginata fq, Paragus bicolor, tibialis, Sphaerophoria, Syritta, Tropidia mamillata; *Empid.*: Parempis; *Bombyli.*: Bombylius atriceps, Exoprosopa fascipennis, Oneoocera, Toxophora; *Conop.*: Zodion fulvifrons; *Tachin.*: Apinops, Cistogaster oecidua, pallasii, Epigrimyia polita, Gymnosoma, Leucostoma atra, Ocyptera nigra, tenuis, Pachyophthalmus floridensis, Phoranthia humeralis fq, purpurascens, Senotainia rubriventris fq, trilineata, Siphona; *Sarcophag.*: Helicobia helieis, Sarcophaga cimbeis; *Musc.*: Pseudopyrellia; *Anthomy.*: Calythea, Limmophora, Phorbia platura; *Agromyz.*: Lobioptera.

Lepidoptera (1)—*Lycaen.*: Chrysophanus.

Coleoptera (2, f, n)—*Malach.*: Collops; *Mordell.*: Mordellistena comata.

Hemiptera (1)—*Caps.*: Lygus ab.

Eupatorium altissimum.—Blooms July 22–October 5; 79 visitors observed, August 25–September 24; Mis, W.

Long-tongued Bees (9)—*Ap.*: Apis fq; *Bomb.*: Bombias scutellaris ♂, Bombus americanorum ♀, impatiens ♂ ♀; *Ceratin.*: Ceratina ♀; *Nomad.*: Nomada vicina ♂ ♀, ab; *Epeol.*: Triepeolus donatus ♂, pectoralis ♂, fq; *Eucer.*: Melissodes simillima ♂ ♀, fq.

Short-tongued Bees (13)—*Halict.*: Augochlora fervida ♂, viridula ♂, Chloralictus illinoensis ♂, sparsus ♂, versatus ♂, zephyrus ♂, Odontalictus ♂ ♀, Oxystoglossa similis ♀, Seladonia ♀; *Prosopid.*: Prosopis ziziae ♀; *Collet.*: Colletes americanus ♂; *Andren.*: Pterandrena asteris ♂ ♀, fq; *Panurg.*: Perdita ♂.

Other Hymenoptera (25)—*Sphec.*: Isodontia apicalis, Sphegnigricans fq, procera; *Bembic.*: Bicyrtes ventralis, Megastizus; *Scoli.*: Elis interrupta, 5 cineta, Scolia bicineta fq; *Philanth.*: Eucerceris, Philanthus ventilabris; *Vesp.*: Polistes annularis, pallipes, variatus; *Eumen.*: Ancistrocerus campestris, tigris, Eumenes fraternus, Leionotus foraminatus, Zethus; *Crabron.*: Protothyreopus bigeminus; *Oxybel.*: Oxybelus packardii; *Larr.*: Larropsis fq; *Pompil.*: Lophopompilus philadelphicus, Pricnemoides fulvicornis; *Chrysid.*: Hedychrum wiltii; *Ichneumon.*: Ceratosoma.

Diptera (25)—*Syrph.*: Milesia, Spilomyia longicornis, Syrritta; *Empid.*: Parempis; *Bombyli.*: Anthrax hypomelas, Exoprosopa fasciata, Sparnopolius, Toxophora; *Conop.*: Conops xanthopareus, Oncomyia; *Tachin.*: Actia, Alophora fumosa, Archytas analis, aterrima, Cistogaster pallasii, Leskiomima secunda, Linnaemyia, Ennyomma globosa, Phorantha asteris, Senotainia trilineata, Spallanzania; *Musc.*: Compsomyia, Graphomyia, Morellia, Pseudopyrellia.

Lepidoptera (6)—*Nymphal.*: Charidryas, Euphydryas, Phyciodes; *Papilion.*: Pontia; *Hesperi.*: Limochores taumas, Polites; *Ctenuch.*: Scepsis.

Coleoptera (1)—*Scarabae.*: Euphoria sepulchralis.

Eupatorium coelestinum.—Blooms July 4–September 22; 26 species and 80 individuals observed, September 16, 17, 22; Mas, R.

Long-tongued Bees (6:11)—*Ap.*: Apis 1; *Bomb.*: Bombus americanorum ♀, sc, 3, Psithyrus variabilis ♂, 1; *Ceratin.*: Ceratina ♀, 1; *Megachil.*: Megachile mendica ♀, sc, 3; *Eucer.*: Melissodes bimaculata ♀, sc, 2.

Short-tongued Bees (5:7)—*Halict.*: Augochlora viridula ♀, se, 1, Chloralictus sparsus ♀, 1, Odontalictus ♂ ♀, se, 3, Oxystoglossa confusa ♂, 1, similis ♀, se, 1.

Other Hymenoptera (1:2)—*Sphec.*: Spheg nigricans 2.

Diptera (5:12)—*Syrph.*: Mesogramma geminata f, 4; *Bombyli.*: Sparnopolius 1; *Tachin.*: Siphoplaga anomala 5; *Deri.*: Ptilodexia 1; *Musc.*: Stomoxys 1.

Lepidoptera (8:47)—*Nymphal.*: Anosia 3, Basilarchia archipus 1, Phyciodes 8; *Papilion.*: Eurymus 12; *Hesper.*: Euphyes metacomet 12, Limochores taumas 2, Polites 5; *Ctenuch.*: Scepis 4.

Coleoptera (1:1)—*Lampyr.*: Chauliognathus pennsylvanicus 1.

Eupatorium perfoliatum (15:453).—Blooms July 16–September 23; 98 visitors observed, August 13–September 11; Mis, W.

Long-tongued Bees (6)—*Ap.*: Apis fq; *Bomb.*: Bombias scutellaris ♀, separatus ♂, Bombus impatiens ♀; *Megachil.* (♀, c): Megachile brevis, mendica.

Short-tongued Bees (8)—*Halict.*: Augochlora fervida ♂, Halictus lerouxii ♂, Odontalictus ♀, se, fq, Oxystoglossa similis ♀; *Spheco.*: Sphecodium pipapinellae ♂; *Prosopid.*: Prosopis pygmaea ♂, ziziae ♂; *Collet.*: Colletes eulophi ♂.

Other Hymenoptera (44)—*Sphec.*: Ammobia ichneumonea, nuda, Isodontia apicalis, Seeliphron, Spheg gracilis, nigricans fq, procera, vulgaris; *Bembic.*: Megastizus; *Scoli.*: Elis interrupta ab, 5-cincta fq, Scolia bicincta ab; *Philanth.*: Cerceris clypeata, prominens, Eucerceris ab, Philanthus punctatus; *Vesp.*: Polistes annularis, pallipes, rubiginosus, variatus, Vespa germanica, maculata; *Eumen.*: Ancistrocerus campestris, capra, tigris ab, Eumenes fraternus, Leonotus anormis, foraminatus; *Crabron.*: Anaerabro, Hypoerabro, Protothyreopus bigeminus, ruffifemur, Solenius fq, Synothyreopus; *Oxybel.*: Notoglossa americana, frontalis; *Larr.*: Larropsis ab, Tachysphex acutus, Tachytes elongatus; *Chrysid.*: Hedychrum violaceum, wiltii; *Chalcid.*: Perilampus cyaneus; *Ichneumon.*: Ceratosoma, Porizon albipennis.

Diptera (27)—*Stratiomy.*: Nematelus; *Syrph.*: Chilosia punctulata, Mesogramma marginata, polita, Spilomyia longicornis, Syrphus ribesii; *Empid.*: Parempis; *Bombyli.*: Exoprosopa fasciata, Sparnopolius; *Conop.*: Conops xanthopareus, Oncomyia; *Tachin.*: Archytas analis fq, aterrima, hystrix, Cistogaster occidua, Clytiomyia, Ennyomma globosa, Siphoplaga anomala, Xanthomelana; *Sarcophag.*: Helicoba heliceis, Sarcophaga assidua; *Musc.*: Compso-myia, Lucilia caesar, Phormia regina, Pseudopyrellia, Stomoxys; *Anthomy.*: Lispa albitarsis.

Lepidoptera (7)—*Nymphal.*: Anosia, Phyciodes; *Papilion.*: Eurymus; *Hesperi.*: Ancyloxypha, Pamphila dion; *Ctenuch.*: Scepsis; *Noctu.*: Drasteria erectea.

Coleoptera (6)—*Chrysomel.*: Ceratoma fq; *Curculion.*: Centrinus scutellum album; *Lampyr.*: Chauliognathus pennsylvanicus; *Melo.*: Epicauta pennsylvanica f, n; *Rhipiphor.*: Rhipiphorus limbatus; *Scarabae.*: Euphoria sepulchralis.

Eupatorium purpureum (15:452).—Blooms July 17–September 3; 20 visitors observed, August 4–September 9; Mas, R.

Long-tongued Bees (5)—*Ap.*: Apis fq; *Bomb.*: Bombias auricomus ♀, Bombus impatiens ♀, fq; *Eucer.*: Melissodes agilis ♂, bimaculata ♀.

Other Hymenoptera (2)—*Sphec.*: Sphecx procera; *Vesp.*: Polistes rubiginosus.

Diptera (3)—*Syrph.*: Volucella vesiculosa f; *Bombyli.*: Exoprosopa fasciata, Systoechus.

Lepidoptera (10)—*Nymphal.*: Anosia, Charidryas, Vanessa huntera; *Papilion.*: Eurymus, Jasoniades, Laertias, Pieris, Pontia; *Hesperi.*: Pholisora hayhurstii, Polites.

Eupatorium serotinum (15:452–3).—Blooms August 2–October 6; 132 visitors observed, August 14–September 19; Mis, W.

Long-tongued Bees (21)—*Ap.*: Apis sc, ab; *Bomb.*: Bombias scutellaris ♂ ♀, sc, separatus ♂, Bombus americanorum ♂ ♀, consimilis ♀, sc, impatiens ♂ ♀, sc, fq, Psithyrus variabilis ♂; *Megachil.*: Trypetini: Neotrypetes truncatus ♂ ♀, sc, fq; Megachilini: Megachile brevis ♂ ♀, mendica ♀, sc, Xanthosarus ♀; Coelioxysiini: Coelioxys 8-dentata ♂, sayi ♂; *Epeol.*: Epeolus bifasciatus ♀, Triepeolus cressonii ♂ ♀, lunatus ♀, pectoralis ♂; *Eucer.*: Melissodes autumnalis ♂ ♀, boltoniae ♀, sc, nivea ♀, sc, simillima ♂.

Short-tongued Bees (11)—*Halict.*: Agapostemon radiatus ♀, viridulus ♂, fq, Chloralictus sparsus ♂, fq, zephyrus ♂, Curtisapis coriacea ♂ ♀, sc, Evylaeus pectoralis ♂, Odontalictus ♂ ♀, Oxystoglossa confusa ♀; Sphecodini: Sphecodium pimpinellae ♂; *Collet.*: Colletes compactus ♂ ♀, eulophi ♂ ♀, sc, fq.

Other Hymenoptera (44)—*Sphec.*: Isodontia apicalis, macrocephala, Sceliphron, Sphecx gracilis, nigricans fq, pictipennis, procera, vulgaris; *Bembic.*: Bicyrtes 4-fasciata; *Scoli.*: Elis 5-cincta, Seolia bicincta; *Philanth.*: Cerceris fulvipes fq, prominens, Eucerceris, Philanthus punctatus, ventilabris; *Vesp.*: Polistes annularis, pallipes, rubiginosus, variatus, Vespula germanica; *Eumen.*: Ancistrocerus campestris, capra, tigris, Eumenes fraternus, Leonotus

arvensis, dorsalis, foraminatus, serophulariae, Monobia; *Crabron.*: Hypocerabro, Protothyreopus bigeminus, Pseudocerabro, Synothyreopus; *Larr.*: Larropsis ab; *Pompil.*: Anoplius illinoensis, Pompiloides marginatus; *Tiphi.*: Tiphia robertsoni; *Chrysid.*: Gonochrysis, Hedyehrum violaceum, wiltii; *Ichneumon.*: Ceratosoma, Porizon albipennis; *Bracon.*: Toxoneuron viator.

Diptera (34)—*Taban.*: Chrysops striatus; *Syrph.*: Chilosis punctulata, Eristalis tenax, Milesia, Orthoneura nitida, Spilomyia longicornis; *Bombyli.*: Anthrax alternata, Exoprosopa fasciata, fascipennis, Geron rufipes, Sparnopoliis, Systoechus, Systropus; *Conop.*: Conops xanthopareus, Physocephala texana, tibialis, Stylogaster biannulata; *Tachin.*: Archytas aterrima, Belvosia bifasciata, Cistogaster occidua, Euphorocera claripennis, Gymnosoma, Leskia, Ennyomma nigrifrons, Neofischeria, Oeyptra tenuis, Siphoplusia anomala, Spallanzania, Trichopoda pennipes, Xanthomelana; *Sarcophag.*: Helicobia helieis; *Musc.*: Compsomyia, Musea, Pseudopyrellia.

Lepidoptera (15)—*Nymphal.*: Argynnis, Phyciodes, Vanessa cardui; *Lycaen.*: Chrysophanus, Everes; *Papilion.*: Eurymus, Pieris, Pontia; *Hesperi.*: Atalopedes, Epargyreus, Limochores taumas fq; *Ctenuch.*: Scepsis; *Noctu.*: Feltia, Spragucia; *Sesi.*: Carmenta.

Coleoptera (6)—*Cerambyc.* (f, n): Cyllene decorus, robiniae; *Chrysomel.*: Diabrotica 12-punctata; *Lampyr.*: Chauliognathus pennsylvanicus; *Rhipiphor.*: Rhipiphorus limbatus; *Scarabae.*: Euphoria sepulchralis.

Hemiptera (1)—*Pentatom.*: Euschistus variolarius.

Eupatorium sessilifolium.—Blooms August 2–September 11; 8 visitors observed, August 25, September 11; Mis, W.

Other Hymenoptera (6)—*Sphex.*: Sphex procera; *Scoli.*: Scolia bicincta; *Philanth.*: Philanthus punctatus fq; *Vesp.*: Polistes rubiginosus; *Eumen.*: Eumenes fraternus, Monobia.

Diptera (1)—*Tachin.*: Archytas analis.

Lepidoptera (1)—*Lycaen.*: Everes.

Eupatorium urticaefolium (15:453).—Blooms July 31–October 13; 23 visitors observed, September 2–17; Mis, W.

Long-tongued Bees (3)—*Ap.*: Apis se, ab; *Megachil.*: Megachile mendica ♀, se, Xanthosarus ♀, c.

Short-tongued Bees (4)—*Halict.*: Chloralictus sparsus ♀, Odontalictus ♂ ♀, se, fq, Oxystoglossa confusa ♀, Seladonia ♂.

Other Hymenoptera (5)—*Scoli.*: Scolia bicincta; *Vesp.*: Vespa germanica, maculata; *Eumen.*: Ancistrocerus tigris; *Larr.*: Larropsis.

Diptera (9)—*Syrph.*: *Allograpta*, *Rhingia*, *Spilomyia longicornis*, *Syrphus ribesii*; *Bombyli.*: *Exoprosopa fasciata*; *Tachin.*: *Cistogaster occidua*, *Paradidyma*; *Dexi.*: *Ptilodexia*; *Musc.*: *Pseudopyrellia*.

Lepidoptera (2)—*Lycaen.*: *Cyaniris*; *Ctenuch.*: *Scepsis*.

Gnaphalium polycephalum.—Blooms August 8–October 17; 70 species and 196 individuals observed, September 20–29; Mis, W.

Long-tongued Bees (1:1)—*Ap.*: *Apis* 1.

Short-tongued Bees (13:64)—*Halict.*: *Augochlora viridula* ♀, 1, *Chloralictus obscurus* ♂, 4, *pilosus* ♀, 1, *sparsus* ♀, 3, *versatus* ♂ ♀, 15, *Odontalictus* ♂ ♀, sc, 11, *Oxystoglossa confusa* ♀, 1, *similis* ♂ ♀, 8, *Paralictus platyparius* ♂ ♀, 9, *Seladonia* ♀, 2; *Prosopid.*: *Prosopis ziziae* ♀, 2; *Collet.*: *Colletes americanus* ♂ ♀, 3; *Andren.*: *Pterandrena solidaginis* ♂ ♀, 4.

Other Hymenoptera (30:63)—*Sphec.*: *Sphex gracilis* 1, *pictipennis* 1, *vulgaris* 1; *Philanth.*: *Cerceris clypeata* 1, *compacta* 1, *finitima* 3, *fulvipes* 1; *Vesp.*: *Polistes annularis* 2, *pallipes* 1; *Eumen.*: *Leionotus anormis* 1, *arvensis* 1, *clypeatus* 17, *histrionalis* 3, *illinoensis* 1, *molestus* 1; *Crabron.*: *Ectemnius* 1, *Solenius* 2, *Xestocrabro texanus* 2, *trifasciatus* 1; *Oxybel.*: *Notoglossa frontalis* 1; *Larr.*: *Larropsis* 1; *Pompil.*: *Lophopompilus philadelphicus* 2, *Pompiloides americanus* 3, *marginatus* 1, *subviolaceus* 2; *Chrysid.*: *Gonochrysis* 1, *Holopyga* 3, *Tetrachrysis venusta* 2; *Ichneumon.*: *Metopius polycinetorius* 3; *Bracon.*: *Chelonus* 2.

Diptera (22:54)—*Syrph.*: *Paragus tibialis* 1, *Syrirta* 1; *Conop.*: *Oncomyia* 1; *Tachin.*: *Distichona varia* 3, *Euphorocera claripennis* 1, *Frontina archippivora* 1, *Gymnosoma* 1, *Hypostena barbata* 1, *Ocyptera lata* 1, *Pachyophthalmus signatus* 2, *Paradidyma* 1, *Senotainia rubriventris* 1, *Siphoplaga anomala* 1, *Spallanzania* 3, *Sturmia phycioidis* 2, *Trichophora* 2; *Sarcophag.*: *Helicobia helicis* 20, *Sarcophaga cimbicis* 1; *Musc.*: *Compsomyia* 1, *Lucilia caesar* 2, *Musca* 1, *Pseudopyrellia* 6.

Lepidoptera (3:9)—*Nymphal.*: *Phyciodes* 3; *Hesperid.*: *Atalopedes* 3; *Ctenuch.*: *Scepsis* 3.

Coleoptera (1:5)—*Lampyr.*: *Chauliognathus pennsylvanicus* 5.

Helenium autumnale (15:474–5).—Blooms August 16–October 22; 35 visitors observed, September 15–23; Mas, Y.

Long-tongued Bees (15)—*Ap.*: *Apis* sc; *Bomb.*: *Bombias scutellaris* ♂, *separatus* ♀, *Bombus americanorum* ♂ ♀, fq, *impatiens* ♂ ♀, ab; *Megachil.* (♀): *Megachilini*: *Megachile brevis* sc, ab, *mendica* sc, *Xanthosarus*; *Coelioxyini*: *Coelioxys* 8-dentata; *Epeol.*:

Triepeolus cressonii ♀, ab; *Eucer.*: *Epimelissodes obliqua* ♀, *Melissodes agilis* ♂, *boltoniae* ♀, se, ab, *simillima* ♀, se, *type*, *trinodis* ♀, se.

Short-tongued Bees (3)—*Halict.*: *Agapostemon viridulus* ♂, *Seladonia* ♀, se; *Collet.*: *Colletes compactus* ♀, se.

Other Hymenoptera (7)—*Sphec.*: *Priononyx atrata*, *Sphex nigricans*, *procera*; *Bembic.*: *Bembix spinolae*, *Bicyrtes ventralis* fq; *Vesp.*: *Polistes variatus*, *Vesputa germanica*.

Diptera (4)—*Syrph.*: *Syrphus arcuatus*; *Bombyli.*: *Anthrax haleyon*, *Sparnopolius*.

Lepidoptera (4)—*Nymphal.*: *Phyciodes*; *Papilion.*: *Eurymus*; *Hesper.*: *Limochores taumas*; *Ctenuch.*: *Seepsis*.

Coleoptera (2)—*Lampyr.*: *Chauliognathus pennsylvanicus* ab; *Melo.*: *Epicauta pennsylvanica* f, n.

Hemiptera (1)—*Pentatom.*: *Euschistus fissilis*.

Helianthus annuus (cult).—Blooms July 10–September 11; 42 species and 434 individuals observed, July 11–September 6; Mas, Y.

Long-tongued Bees (19:311)—*Ap.*: *Apis* se, 65; *Bomb.*: *Bombias separatus* ♂, 12, *Bombus americanus* ♂ ♀ ♀, se, 117, *consimilis* ♀, 2, *impatiens* ♂ ♀, se, 26, *ridingsii* ♂, 5, *Psithyrus variabilis* ♂ ♀, 8; *Ceratin.*: *Ceratina* ♀, se, 1; *Megachil.* (♀): *Megachile mendica* se, 1, *Sayapis sayi* 1, *Xanthosarus* 1; *Epeol.*: *Triepeolus concavus* ♀, 1; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, se, 6, *Melissodes agilis* ♂ ♀, se, 50, *autumnalis* ♀, 1, *bimaculata* ♂ ♀, 2, *boltoniae* ♂ ♀, se, 6, *coloradensis* ♀, se, 2, *trinodis* ♂ ♀, se, 4.

Short-tongued Bees (9:69)—*Halict.*: *Agapostemon viridulus* ♂ ♀, 11, *Chloralictus pilosus* ♀, c, 1, *sparsus* ♀, c, 1, *versatus* ♀, c, 2, *Odontalictus* ♂ ♀, se, 50, *Oxystoglossa confusa* ♀, 1, *Seladonia* ♂, 1; *Andren.*: *Pterandrena helianthi* ♂, 1, *pulchella* ♀, 1.

Diptera (5:36)—*Syrph.*: *Eristalis brousi* 1, *transversus* 1, *Syritta* f, 1, n; *Bombyli.*: *Anthrax alternata* f, 1, n, *Sparnopolius* 32.

Lepidoptera (4:10)—*Nymphal.*: *Anosia* 1, *Argynnis* 3; *Papilion.*: *Pieris* 2; *Hesper.*: *Limochores taumas* 4.

Coleoptera (4:5)—*Chrysomel.* (f, n): *Diabrotica 12-punctata* 1, *longicornis* 1, *vittata* 1; *Lampyr.*: *Chauliognathus pennsylvanicus* 2.

Hemiptera (1:3)—*Caps.*: *Lygus* 3.

Helianthus divaricatus (10:244-5).—Blooms July 22–September 15; 75 visitors observed, July 22–September 10; Mas, Y.

Long-tongued Bees (38)—*Ap.*: *Apis*; *Bomb.*: *Bombias scutellaris* ♀, se, *separatus* ♂, *Bombus americanorum* ♂ ♀, ab; *Ceratin.*:

Ceratina ♂ ♀, se; *Megachil.*: Trypetini: Neotrypetes truncatus ♀, se; Osmini: Ashmeadiella ♀, se; Megachilini: Megachile brevis ♀, mendica ♂, petulans ♂ ♀, se, fq, 6-dentata ♀, se, Sayapis pugnata ♀, se, sayi ♀, se, fq, Xanthosarus ♀, se; Coelioxyni: Coelioxys alternata ♀, germana ♂ ♀, 8-dentata ♂, sayi ♂; *Epeol.*: Epeolus autumnalis ♂, fq, bifasciatus ♂, pusillus ♂, Triepeolus concavus ♂ ♀, concolor ♂ ♀, fq, cressonii ♂ ♀, fq, donatus ♂ ♀, fq, lunatus ♀, nevadensis ♀, remigatus ♂, simplex ♀; *Eucer.*: Epimelissodes obliqua ♂ ♀, se, ab, Melissodes agilis ♂ ♀, se, autumnalis ♂ ♀, se, fq, boltoniae ♀, se, coloradensis ♂ ♀, se, fq, nivea ♂, fq, simillima ♂, trinodis ♂ ♀, se, fq, vernoniana ♂ ♀.

Short-tongued Bees (15)—*Halict.*: Chloralictus illinoensis ♂, pilosus ♂ ♀, se, versatus ♂, Evylaeus pectoralis ♀, e, fq, Odontalictus ♂ ♀, se, fq, Oxystoglossa confusa ♂ ♀, se, fq; *Collet.*: Colletes americanus ♂ ♀; *Dufoure.*: Halictoides ♂ ♀, se, fq; *Andren.*: Pterandrena helianthi ♂, pulchella ♂ ♀, se, fq; *Panurg.*: Pseudopanurgus albittarsis ♂ ♀, se, fq, labrosiformis ♂ ♀, se, fq, labrosus ♂ ♀, se, fq, rudbeckiae ♂, rugosus ♂ ♀, se, fq.

Other Hymenoptera (4)—*Sphec.*: Spheg nigricans; *Bembic.*: Stictiella; *Eumen.*: Leionotus arvensis; *Cercer.*: Cerceris rufinoda.

Diptera (13)—*Syrph.*: Eristalis transversus, Milesia f, n; *Bombyli.*: Anthrax alternata f, n, halcyon, palliata, Exoprosopa decora, Geron rufipes, Sparnopolius ab, Systoechus; *Conop.*: Zodion fulvifrons fq, Robertsonomyia fq, in cop; *Anthomy.*: Proboscimyia; *Agromyz.*: Eusiphona.

Lepidoptera (4)—*Nymphal.*: Charidryas; *Papilion.*: Callidryas, Eurymus; *Hesperi.*: Limochores taumas.

Coleoptera (1)—*Lampyr.*: Chauliognathus pennsylvanicus fq.

August 27 the following 16 species and 55 individuals were taken on the flowers:

Long-tongued Bees (8:33)—*Ap.*: Apis 1; *Bomb.*: Bombus americanorum 11; *Megachil.*: Xanthosarus 4; *Epeol.*: Triepeolus concavus 1; *Eucer.*: Epimelissodes obliqua 11, Melissodes agilis 2, coloradensis 1, trinodis 2.

Short-tongued Bees (2:2)—*Halict.*: Chloralictus pilosus 1, Odontalictus 1.

Other Hymenoptera (1:1)—*Sphec.*: Spheg nigricans 1.

Diptera (2:8)—*Bombyli.*: Sparnopolius 5, Systoechus 3.

Lepidoptera (2:4)—*Papilion.*: Eurymus 2; *Hesperi.*: Limochores taumas 2.

Coleoptera (1:7)—*Lampyr.*: Chauliognathus pennsylvanicus 7.

Helianthus grosse-serratus (15:469-70).—Blooms August 19-October 15; 72 visitors observed, August 27-October 15; Mas, Y.

Long-tongued Bees (29)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♂ ♀, *seutellaris* ♂ ♀, fq, *separatus* ♂ ♀, *Bombus americanorum* ♂ ♀, ab, *consimilis* ♂, *impatiens* ♀ ♀, *Psithyrus variabilis* ♂ ♀, fq; *Megachil.*: *Megachilini*: *Megachile brevis* ♂ ♀, se, *generosa* ♀, *Sayapis sayi* ♀, se, *Xanthosarus* ♂ ♀, se, ab; *Coelioxyni*: *Coelioxys rufitarsis* ♀, fq; *Nomad.*: *Holonomada vineta* ♂ ♀, fq; *Epeol.*: *Triepeolus concavus* ♀, fq, *cressonii* ♀, fq, *donatus* ♂ ♀, *helianthi* ♂ ♀, ab, *type*; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, se, fq, *Melissodes agilis* ♂ ♀, se, ab, *autumnalis* ♂ ♀, se, fq, *bimaculata* ♀, se, *boltoniae* ♀, se, fq, *coloradensis* ♀, se, fq, *nivea* ♂ ♀, *pallida* ♀, *type*, *simillima* ♂, *trinodis* ♂ ♀, se, fq, *type*; *Anthophor.*: *Amegilla* ♀.

Short-tongued Bees (9)—*Halict.*: *Agapostemon radiatus* ♂ ♀, se, *texanus* ♂, *viridulus* ♂, *Chloralictus versatus* ♀, e, *Odontalictus* ♂ ♀, se, fq; *Andren.* (♂ ♀, se, ab): *Pterandrena helianthi*, *type*, *pulchella*; *Panurg.*: *Pseudopanurgus solidaginis* ♂ ♀, se, fq; *Dufoure.*: *Halietoides* ♂ ♀, se, fq.

Other Hymenoptera (3)—*Sphéc.*: *Priononyx atrata*; *Bembic.*: *Bembix nubillipennis*, *spinolae*.

Diptera (14)—*Syrph.*: *Eristalis latifrons* ab, *tenax*, *transversus* ab, *Helophilus latifrons*, *similis*, *Syrphus americanus*, *ribesii*; *Bombyli.*: *Exoprosopa decora*, *Sparnopolius* ab, *Systoechus* fq; *Conop.*: *Robertsonomyia*; *Tachin.*: *Macquartia*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Proboscimyia* fq.

Lepidoptera (13)—*Nymphal.*: *Anosia* fq, *Argynnis*, *Euptoleta*, *Speyeria*, *Vanessa cardui* fq, *huntera*; *Papilion.*: *Eurymus*, *Laertias*, *Zerene*; *Hesperi.*: *Hesperia*; *Arcti.*: *Utetheisa*; *Ctenuch.*: *Scepsis*; *Noctu.*: *Plusia simplex*.

Coleoptera (3)—*Chrysomel.* (f, n): *Diabrotica 12-punctata*, *longicornis*; *Lampyr.*: *Chauliognathus pennsylvanicus*.

Hemiptera (1)—*Phymat.*: *Phymata*, pred.

Helianthus laetiflorus.—Blooms August 1–September 15; 26 visitors observed, August 19, 20, 28; Mas, Y.

Long-tongued Bees (9)—*Bomb.*: *Bombias seutellaris* ♀, *separatus* ♂, *Bombus americanorum* ♀; *Megachil.*: *Megachile brevis* ♂, *Sayapis sayi* ♀, se, *Xanthosarus* ♂; *Epeol.*: *Triepeolus concavus* ♂ ♀; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, se, *Melissodes agilis* ♂ ♀.

Short-tongued Bees (4, ♀, se)—*Halict.*: *Chloralictus pilosus*, *versatus*, *Evyllaenus pectoralis*, *Odontalictus* ab.

Other Hymenoptera (2)—*Sphéc.*: *Sphex nigricans*; *Ichneumon.*: *Ceratosoma*.

Diptera (6)—*Syrph.*: *Eristalis latifrons* sf, *transversus* f; *Bombyli.*: *Exoprosopa fasciata*, *Sparnopolius* ab, *Systoechus*; *Tachin.*: *Siphoplagia anomala*.

Lepidoptera (3)—*Nymphal.*: Phyciodes; *Hesperi.*: Pholisora catullus; *Ctenuch.*: Scepis.

Hemiptera (2)—*Caps.*: Calocoris, Lygus.

Helianthus mollis (15:469).—Blooms July 9–September 25; 27 visitors observed, July 29–August 23; Mas, Y.

Long-tongued Bees (12)—*Bomb.*: *Bombus americanorum* ♂ ♀, fq; *Megachil.*: *Megachilini*: *Megachile brevis* ♂, *petulans* ♀, *6-dentata* ♂, *Xanthosarus* ♂ ♀, sc; *Coelioxyni*: *Coelioxys 8-dentata* ♂; *Epeol.*: *Triepeolus concavus* ♀, *ressonii* ♀; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, sc, fq, *Melissodes agilis* ♂ ♀, sc, *coloradensis* ♂, *trinodis* ♀, sc.

Short-tongued Bees (7)—*Halict.*: *Agapostemon viridulus* ♂, *Chloralictus pilosus* ♀, sc, *versatus* ♀, sc, *Odontalictus* ♀, sc, fq, *Oxystoglossa similis* ♀, sc; *Panurg.* (♂ ♀, sc): *Pseudopanurgus albitarsis* in cop, *rugosus*.

Diptera (6)—*Syrph.*: *Eristalis latifrons*, *Tropidia mamillata*; *Bombyli.*: *Anthrax halcyon*, *Exoprosopa decora*, *Systoechus* fq.

Lepidoptera (2)—*Nymphal.*: Phyciodes; *Papilion.*: *Eurymus*.

Helianthus scaberrimus.—Blooms August 2–September 9; 12 visitors observed, August 9–September 9; Mas, Y.

Long-tongued Bees (5)—*Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Xanthosarus* ♀; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, *Melissodes agilis* ♀, sc, *coloradensis* ♀, sc.

Short-tongued Bees (3)—*Dufoure.*: *Halictoides* ♀, sc; *Andren.*: *Pterandrena helianthi* ♂ ♀, sc, fq, *pulchella* ♀, sc, *type*.

Diptera (2)—*Syrph.*: *Eristalis transversus*; *Bombyli.*: *Sparnopolius*.

Coleoptera (1)—*Lampyr.*: *Chauliognathus pennsylvanicus*.

Hemiptera (1)—*Caps.*: *Calocoris*.

Helianthus strumosus (15:470).—Blooms July 6–September 7; 14 visitors observed, August 22, 24; Mas, Y.

Long-tongued Bees (6)—*Bomb.*: *Bombias separatus* ♂; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile petulans* ♂; *Epeol.*: *Triepeolus concavus* ♀, *ressonii* ♂; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, sc, fq.

Short-tongued Bees (2, ♀)—*Andren.*: *Pterandrena pulchella* fq; *Panurg.*: *Pseudopanurgus labrosiformis*.

Other Hymenoptera (1)—*Sphec.*: *Sphex nigricans*.

Diptera (3)—*Bombyli.*: *Anthrax halcyon*, *Sparnopolius*, *Systoechus*.

Lepidoptera (2)—*Nymphal.*: *Charidryas*; *Papilion.*: *Eurymus*.

Helianthus tuberosus (15:471).—Blooms July 15–September 28; 53 visitors observed, August 13–September 28; Mas, Y.

Long-tongued Bees (17)—*Bomb.*: *Bombias auricomus* ♀, separatus ♂ ♀, *Bombus americanorum* ♂ ♀, se, fq, consimilis ♂; *Megachil.* (♀): *Megachile brevis*, *Sayapis sayi*, se, *Xanthosarus*; *Nomad.*: *Holonomada vineta* ♀; *Epeol.*: *Epeolus autumnalis* ♂ ♀, *Triepeolus concavus* ♀, *concolor* ♀; *Eucer.*: *Epimelissodes obliqua* ♀, se, ab, *Melissodes agilis* ♂ ♀, se, fq, *bimaculata* ♀, *coloradensis* ♂ ♀, se, fq, *simillima* ♂, *trinodis* ♂ ♀, fq.

Short-tongued Bees (15)—*Halict.* (♀): *Chloralictus pilosus*, *sparsus*, e, n, *zephyrus* e, *Curtisapis coriacea* se, *Evylaeus pectinatus type*, *Odontalictus* se; *Collet.*: *Colletes compactus* ♀, se; *Dufoure.*: *Halictoides*, ♀; *Andren.*: *Pterandrena aliciae* ♀, se, *helianthi* ♀, *pulchella* ♂ ♀, se, ab; *Panurg.*: *Pseudopanurgus labrosiformis* ♂ ♀, se, fq, *labrosus* ♂ ♀, se, ab, in cop, *type*, *rugosus* ♂ ♀, se, ab, in cop, *solidaginis* ♂.

Other Hymenoptera (3)—*Scoli.*: *Scolia bicincta*; *Philanth.*: *Cerceris kennicottii*; *Crabron.*: *Protothyreopus bigeminus*.

Diptera (9)—*Syrph.*: *Eristalis tenax* fs, *transversus*; *Bombyli.*: *Anthrax haleyon* fq, *Exoprosopa decora*, *fascipennis* fq, *Sparnopolius* ab, *Systoechus* fq; *Musc.*: *Pseudopyrellia*; *Trypet.*: *Trypeta finalis* n.

Lepidoptera (4)—*Nymphal.*: *Phyciodes*; *Lycaen.*: *Eupsyche*; *Papilion.*: *Eurymus*; *Hesper.*: *Pholisora catullus*.

Coleoptera (4)—*Chrysomel.*: *Diabrotica longicornis* f, n; *Lampyr.*: *Chauliognathus pennsylvanicus*; *Melo.*: *Epicauta pennsylvanica* f, n; *Mordell.*: *Mordella scutellaris* f, n.

Hemiptera (1)—*Caps.*: *Lygus*.

Heliopsis helianthoides (16:177).—Blooms June 22–October 2; 51 visitors observed, July 1–October 2; Mas, Y.

Long-tongued Bees (19)—*Bomb.*: *Bombus americanorum* ♂, *impatiens* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachilini*: *Megachile brevis* ♂, fq, *6-dentata* ♂; *Coelioxyni*: *Coelioxys germana* ♂, *8-dentata* ♂ ♀, *sayi* ♂; *Pasit.*: *Holcopasites heliopsis* ♂, *type*; *Epeol.*: *Epeolus bifasciatus* ♂, fq, *Triepeolus concavus* ♂ ♀, *concolor* ♂ ♀, fq, *cressonii* ♂, *lunatus* ♀; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, se, *Melissodes coloradensis* ♂, *simillima* ♂, *trinodis* ♂ ♀, se, *vernoniana* ♂.

Short-tongued Bees (11)—*Halict.* (♀): *Chloralictus obscurus*, *pilosus* se, *pruinus* se, *sparsus* e, n, *Evylaeus pectoralis* e, n, *Odontalictus*, *Oxystoglossa confusa*, *pura*; *Andren.*: *Pterandrena aliciae* ♀; *Panurg.*: *Pseudopanurgus labrosiformis* ♂ ♀, se, *rugosus* ♂, fq.

Other Hymenoptera (4)—*Sphex.*: *Sphex nigricans*, *vulgaris*; *Bembic.*: *Bembix spinolae*; *Scoli.*: *Scolia bicincta*.

Diptera (11)—*Syrph.*: *Eristalis transversus*; *Empid.*: *Parempis* fq; *Bombyli.*: *Anthrax halcyon*, *Exoprosopa fasciata*, *fascipennis*, *Geron calvus* fq, *rufipes*, *Sparnopolius*, *Systoechus*; *Conop.*: *Stylogaster biannulata*; *Agromyz.*: *Eusiphona*.

Lepidoptera (4)—*Nymphal.*: *Phyciodes*; *Lycaen.*: *Uranotes*; *Papilion.*: *Pontia*; *Hesperi.*: *Pholisora catullus*.

Coleoptera (1)—*Lampyr.*: *Chauliognathus pennsylvanicus*.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

Krigia amplexicaulis (15:476).—Blooms May 1–June 19; 68 visitors observed, May 10–June 15; Mis, Y.

Long-tongued Bees (17)—*Ap.*: *Apis* sc, ab; *Bomb.* (♀): *Bombias scutellaris*, *separatus*, *Bombus americanorum*; *Ceratin.*: *Ceratina* ♂ ♀, sc, ab; *Stelid.*: *Microstelis* ♂; *Megachil.*: *Osmiini*: *Alcidamea simplex* ♂ ♀, fq, *Gnathosmia* ♀, sc, *Osmia pumila* ♀; *Megachilini*: *Megachile brevis* ♂; *Coelioxysi*: *Coelioxys 8-dentata* ♂ ♀; *Nomad.*: *Centrias americanus* ♂ ♀, fq, *Holonomada affabilis* ♂ ♀, fq, *superba* ♀, ab, *Nomada illinoensis* ♀; *Epeol.*: *Epeolus interruptus* ♂; *Eucer.*: *Tetralonia dilecta* ♂ ♀, fq.

Short-tongued Bees (16)—*Halict.* (♀): *Agapostemon viridulus* sc, *Chloralictus albipennis* sc, ab, *coreopsis* sc, *pilosus* sc, ab, *versatus* sc, ab, *Evylaeus pectoralis* sc, *Halictus lerouxii*, *parallelus*, *Odontalictus* sc, ab, *Oxystoglossa confusa* sc, ab, *similis* sc, ab, *Seladonia* sc; *Prosopid.*: *Prosopis pygmaea* ♂ ♀, sf, *ziziae* ♂, f; *Collet.*: *Colletes aestivalis* ♂ ♀; *Andren.*: *Pterandrena krigiana* ♂ ♀, sc, ab, *type*, *oligolege*.

Other Hymenoptera (9)—*Sphex.*: *Sphex pictipennis*, *vulgaris*; *Eumen.*: *Leionotus anormis* ab, *clypeatus*, *foraminatus*, *histrionalis*, *serophulariae*, *ziziae*; *Crabron.*: *Solenius*.

Diptera (17)—*Syrph.*: *Eristalis dimidiatus* ab, *latifrons*, *tenax*, *transversus*, *Helophilus latifrons*, *similis*, *Mesogramma marginata*, *Sphaerophoria*, *Tropidia mamillata*; *Conop.*: *Oncomyia*, *Zodion fulvifrons*; *Tachin.*: *Cistogaster occidua*, *pallasii*, *Ocyptera tenuis*; *Musc.*: *Lucilia sylvarum*, *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*.

Lepidoptera (5)—*Nymphal.*: *Anosia*, *Phyciodes*; *Papilion.*: *Eurymus*, *Papilio*; *Hesperi.*: *Polites*.

Coleoptera (3, f, n)—*Chrysomel.*: *Diabrotica 12-punctata* fq; *Coccinell.*: *Megilla*; *Erotyl.*: *Languria* fq.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

May 18 and 25, the following 33 species and 202 individuals were taken on the flowers:

Long-tongued Bees (5:17)—*Ap.*: *Apis* 11; *Bomb.*: *Bombias separatus* 1, *Bombus americanorum* 1; *Ceratin.*: *Ceratina* 3; *Eucer.*: *Tetralonia dilecta* 1.

Short-tongued Bees (13:109)—*Halict.*: *Agapostemon viridulus* 3, *Chloralictus coreopsis* 1, *pilosus* 18, *versatus* 32, *Evyllaenus pectoralis* 2, *Halictus lerouxii* 3, *parallelus* 1, *Odontalictus* 10, *Oxystoglossa confusa* 10, *similis* 13; *Prosopid.*: *Prosopis pygmaea* 1; *Collet.*: *Colletes aestivalis* 4; *Andren.*: *Pterandrena krigiana* 11.

Diptera (11:72)—*Syrph.*: *Eristalis dimidiatus* 8, *latifrons* 1, *Helophilus latifrons* 1, *similis* 1, *Mesogramma marginata* 34, *Sphaerophoria* 3; *Conop.*: *Oncomyia* 2, *Zodion fulvifrons* 2; *Tachin.*: *Cistogaster pallasii* 1; *Musc.*: *Lucilia sylvarum* 1; *Anthomy.*: *Phorbia aera* 18.

Lepidoptera (2:2)—*Nymphal.*: *Phyciodes* 1; *Papilion.*: *Eurymus* 1.

Coleoptera (1:1)—*Chrysomel.*: *Diabrotica 12-punctata* 1.

Hemiptera (1:1)—*Lygae.*: *Lygaeus* 1.

Lactuca canadensis.—Blooms June 22–September 6; 1 visitor observed, August 30; Mas, Y.

Long-tongued Bees (1)—*Megachil.*: *Xanthosarus* ♀, se.

Lactuca floridana.—Blooms July 25–October 6; 15 visitors observed, August 17–October 6; Mas, R.

Long-tongued Bees (8)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombias auricomus* ♀, *Bombus impatiens* ♀, se; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile brevis* ♂ ♀, se, *Xanthosarus* ♀; *Eucer.* (♀, se): *Epimelissodes obliqua* fq, *Melissodes boltoniae*.

Short-tongued Bees (6, ♀)—*Halict.*: *Chloralictus pilosus* e, n, *sparsus* e, n, *Evyllaenus pectoralis* e, n, *Odontalictus* se; *Prosopid.*: *Prosopis ziziae*, f, n; *Collet.*: *Colletes americanus*.

Coleoptera (1)—*Lampyr.*: *Chauliognathus pennsylvanicus* fq.

Lepachys pinnata (15:468–9).—Blooms June 19–August 29; 67 visitors observed, July 1–August 21; Mas, Y.

Long-tongued Bees (27)—*Bomb.*: *Bombias scutellaris* ♀; *Megachil.*: *Osmiini*: *Aleidamea simplex* ♀; *Megachilini*: *Megachile brevis* ♂, fq, *mendica* ♀, *6-dentata* ♂ ♀, se, fq, *Sayapis pugnata* ♀, *sayi* ♂ ♀, ab, *Xanthosarus* ♂ ♀; *Coelioxyni*: *Coelioxys alternata* ♂ ♀, *modesta* ♂, *8-dentata* ♂ ♀; *Epeol.*: *Epeolus bifasciatus* ♂, fq, *Triepeolus concavus* ♂ ♀, ab, *concolor* ♂ ♀, ab, *eressonii* ♂ ♀, fq, *lunatus* ♂ ♀, fq, *remigatus* ♂ ♀, ab; *Eucer.*: *Epimelissodes illinoensis* ♂ ♀, se, *type*, *obliqua* ♂ ♀, se, ab, *Melissodes agilis* ♂ ♀, fq, *bimaculata* ♂ ♀, ab, *boltoniae* ♀, *comptoides* ♂ ♀, *nivea* ♂, *simillima* ♂, ab, *trinodis* ♂ ♀, se, *vernoniana* ♂ ♀.

Short-tongued Bees (11)—*Halict.*: *Agapostemon radiatus* ♂, *texanus* ♀, se, *Augochlora fervida* ♂, *Chloralictus albipennis* ♀, se,

pruinosis ♂ ♀, versatus ♀, sc, Curtisapis forbesii ♀, Halictus lerouxii ♀, sc, Odontalictus ♂ ♀, sc, ab; *Andren.*: Pterandrena rudbeckiae ♀, sc; *Panurg.*: Pseudopanurgus albitarsis ♀.

Other Hymenoptera (16)—*Sphec.*: Priononyx atrata, thomae, Sphex nigricans, pietipennis; *Bembic.*: Bembix nubillipennis ab, spinolae, Bicyrtes ventralis fq, Stictiella fq; *Vesp.*: Polistes variatus; *Eumen.*: Leionotus anormis, arvensis, clypeatus, fundatus, Pterochilus; *Crabron.*: Anacrabro, Entomognathus.

Diptera (8)—*Empid.*: Parempis; *Bombyli.*: Exoprosopa decora, Geron rufipes, Sparnopolius, Systoechus; *Conop.*: Zodion obliquefasciatum fq, in cop; *Tachin.*: Cistogaster occidua; *Agromyz.*: Eusiphona.

Lepidoptera (3)—*Nymphal.*: Phyciodes; *Lycaen.*: Everes, Uranotes.

Coleoptera (2)—*Buprest.*: Acmaeodera pulchella f, fq; *Cerambyc.*: Typocerus sinuatus f, n.

Liatrix pycnostachya (15:454).—Blooms July 7—August 23; 34 visitors observed, July 24—August 10; Mas, R.

Long-tongued Bees (14)—*Ap.*: Apis ab; *Bomb.*: Bombias separatus ♂ ♀, fq, Bombus americanorum ♂ ♀, sc, fq, consimilis ♀, impatiens ♀, sc; *Ceratin.*: Ceratina ♀, fq; *Megachil.*: Sayapis sayi ♀, sc, Xanthosarus ♂ ♀, fq; *Epeol.*: Triepeolus concavus ♂ ♀, concolor, ♀, remigatus ♀; *Eucer.*: Epimelissodes obliqua ♂ ♀, sc, fq, Melissodes agilis ♂ ♀, fq, coloradensis ♂.

Short-tongued Bees (2)—*Halict.*: Agapostemon viridulus ♂ ♀, sc, fq, Odontalictus ♀, c, fq, n.

Diptera (6)—*Syrph.*: Eristalis latifrons, tenax; *Bombyli.*: Exoprosopa fasciata ab, Systoechus; *Conop.*: Physocephala texana, Stylogaster biannulata.

Lepidoptera (12)—*Nymphal.*: Anosia, Basilarchia archippus, Speyeria; *Papilion.*: Eurymus fq, Laertias, Papilio, Pieris; *Hesperi.*: Epargyreus, Euphyes metacomet, Limochores taumas fq, Polites fq; *Ctenuch.*: Sepsis.

Liatrix scariosa.—Blooms July 27—October 6; 9 species observed, August 22—September 3; Mas, R.

Long-tongued Bees (2)—*Bomb.*: Bombus americanorum ♂ ♀; *Eucer.*: Melissodes nivea ♂.

Other Hymenoptera (1)—*Sphec.*: Sphex vulgaris.

Diptera (1)—*Bombyli.*: Exoprosopa fasciata.

Lepidoptera (5)—*Nymphal.*: Anosia; *Papilion.*: Euphœades, Eurymus, Zerene; *Hesperi.*: Polites.

Parthenium integrifolium (15:464-5).—Blooms June 6–July 30; 55 visitors observed, June 21, 27, July 11; Mis, W.

Long-tongued Bees (4)—*Ceratin.*: *Ceratina* ♀, se; *Megachil.*: *Neotrypetes productus* ♂, *truncatus* ♀, se; *Cyphopyga* ♀, c.

Short-tongued Bees (7)—*Halict.*: *Augochlora fervida* ♀, *Chloralictus pilosus* ♀, se, *versatus* ♂ ♀, se, ab, *Odontalictus* ♀, *Oxystoglossa similis* ♀, se, fq, *Seladonia* ♀, se; *Prosopid.*: *Proposis pygmaea* ♂.

Other Hymenoptera (15)—*Sphex.*: *Sphex nigricans*; *Scoli.*: *Elis 5-cincta*; *Philanth.*: *Cerckeris compacta*, *robertsonii*; *Eumcn.*: *Leionotus anormis*, *clypeatus*, *histrionalis*, *ziziae*; *Crabron.*: *Solenius*; *Oxybel.*: *Notoglossa americana*, *frontalis* fq; *Chrysid.*: *Hedychrum parvum*; *Bracon.*: *Agathis vulgaris*, *Vipio*; *Tenthredin.*: *Hylotoma humeralis*.

Diptera (20)—*Syrph.*: *Mesogramma geminata*, *marginata*, *Sphaerophoria*, *Syritta*; *Empid.*: *Parempis*; *Conop.*: *Zodion fulvifrons*; *Tachin.*: *Cistogaster occidua*, *Macquartia*, *Ocyptera tenuis*, *Phorantha purpurascens*, *Senotainia rubriventris*, *trilineata* fq; *Sarcophag.*: *Helicobia helieis*, *Sarcophaga hunteri*; *Musc.*: *Lucilia sylvarum*, *Pseudopyrellia*, *Stomoxys*; *Anthomy.*: *Anthomyiella*, *Calythea*; *Agromyz.*: *Lobioptera*.

Coleoptera (6)—*Cerambyc.*: *Typocerus sinuatus* fq; *Chrysomel.*: *Diabrotica atripennis*, *12-punctata* f; *Mordell.*: *Pentaria*; *Rhipiphor.*: *Rhipiphorus limbatus*; *Scarabae.*: *Trichius piger* sf, fq.

Hemiptera (3)—*Caps.*: *Calocoris*, *Lygus* fq; *Corimelaen.*: *Corimelaena pulicaria*.

Prenanthes aspera.—Blooms August 29–October 6; one visitor observed, September 13; Mas, W.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♂.

Prenanthes crepidinea.—Blooms August 20–September 25; five visitors observed, August 25, September 6, 13; Mas, Y.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♂, *impatiens* ♀, se.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa confusa* ♀, c, n.

Coleoptera (2)—*Chrysomel.*: *Diabrotica longicornis* f, fq, n; *Lampyr.*: *Chauliognathus pennsylvanicus* fq.

Rudbeckia hirta (15:466-7).—Blooms June 1–September 16; 84 visitors observed, June 9–August 22; Mis, Y.

Long-tongued Bees (14)—*Ap.*: *Apis*; *Ceratin.*: *Ceratina* ♀, se, fq; *Megachil.*: *Trypetini*: *Neotrypetes truncatus* ♀ se; *Megachilini*: *Cyphopyga* ♀, se, *Megachile brevis* ♂ ♀, *6-dentata* ♀, se, *Sayapis*

pugnata ♀, sc; Coelioxyini: Coelioxys 8-dentata ♂; *Nomad.*: Centrias americanus ♂ ♀; *Epeol.*: Epeolus interruptus ♂, Triepeolus concolor ♂; *Eucer.*: Epimelissodes obliqua ♂, Melissodes boltoniae ♀, sc, fq, trinodis ♀.

Short-tongued Bees (13)—*Halict.*: Agapostemon radiatus ♂, viridulus ♀, sc, Chloralictus coreopsis ♀, c, pilosus ♂ ♀, sc, pruinus ♂, versatus ♂ ♀, sc, Evylaeus pectoralis ♂ ♀, sc, fq, Odontalictus ♀, sc, Oxystoglossa confusa ♀, sc; *Collet.*: Colletes eulophi ♀, sc; *Andren.*: Pterandrena rudbeckiae ♂ ♀, sc, ab, in cop, type; *Panurg.* (♂ ♀, sc, ab): Pseudopanurgus albitarsis in cop, rudbeckiae.

Other Hymenoptera (7)—*Sphec.*: Priononyx thomae, Sphex nigricans fq, pictipennis; *Bembic.*: Stictiella; *Eumen.*: Leionotus anormis, arvensis; *Bracon.*: Aenignostomus fq.

Diptera (31)—*Stratiomy.*: Odontomyia nigrirostris; *Syrph.*: Allograpta, Eristalis aeneus, dimidiatus, latifrons ab, transversus ab, Helophilus latifrons, Mesogramma marginata ab, Paragus tibialis sf, Sphaerophoria, Syrirta, Tropidia mamillata, Volucella fasciata; *Empid.*: Parempis; *Bombyli.*: Anthrax parvicornis, Exoprosopa decora, emarginata, fascipennis, Geron calvus fq, Phthiria cincta fq, sulphurea, Sparnopolius; *Conop.*: Zodion fulvifrons; *Tachin.*: Archytas analis, Ocyptera argentea, tenuis ab, Spallanzania fq, Trichophora; *Anthomy.*: Coenosia antica, Proboscimyia; *Sapromyz.*: Sapromyza vulgaris.

Lepidoptera (12)—*Nymphal.*: Argynnis, Basilarchia archippus, Charidryas, Phyciodes; *Lycaen.*: Chrysophanus, Thecla calanus; *Papilion.*: Eurymus, Pieris; *Hesperi.*: Limochores taumas, Polites; *Ctenuch.*: Scopsis; *Noctu.*: Plusia simplex.

Coleoptera (6)—*Buprest.*: Acmaeodera pulchella f; *Cerambyc.*: Typocerus sinuatus sf, fq; *Chrysomel.*: Diabrotica 12-punctata f; *Curculion.*: Centrinus scutellum-album f; *Mordell.*: Mordella scutellaris f; *Melo.*: Macrobasis f.

Hemiptera (1)—*Caps.*: Lygus.

Rudbeckia laciniata (16: 177–8).—Blooms July 17–October 3; 52 visitors observed, August 13–October 3; Mas, Y.

Long-tongued Bees (18)—*Ap.*: Apis sc, ab; *Bomb.*: Bombias scutellaris ♀, separatus ♀, sc, Bombus americanorum ♂ ♀, impatiens ♂ ♀, Psithyrus variabilis ♀; *Ceratin.*: Ceratina ♀, Zaodontomerus ♂; *Megachil.*: Neotrypetes truncatus ♂; Megachile petulans ♀, sc; *Epeol.*: Epeolus autumnalis ♂ ♀, fq, Triepeolus donatus ♂, pectoralis ♂ ♀, fq; *Eucer.*: Epimelissodes obliqua ♀, sc, Melissodes autumnalis ♂, coloradensis ♂, simillima ♂, fq, trinodis ♂ ♀, sc, fq.

Short-tongued Bees (8)—*Halict.*: Chloralictus pilosus ♀, Odontalictus ♂ ♀, sc, fq; *Collet.*: Colletes compactus ♂ ♀, sc, fq; *Andren.*:

Pterandrena aliciae ♀, se, fq; *Panurg.*: *Pseudopanurgus albitarsis* ♂ ♀, se, labrosiformis ♂ ♀, se, fq, *rudbeckiae* ♂ ♀, se, fq, *rugosus* ♀.

Other Hymenoptera (5)—*Sphec.*: *Sphex gracilis* fq, *nigricans*, *vulgaris*; *Bembic.*: *Bembix spinolae*; *Scoli.*: *Scolia bicincta*.

Diptera (16)—*Syrph.*: *Eristalis dimidiatus*, *transversus* *Syrphus ribesii* f, n; *Empid.*: *Parempis* fq; *Bombyli.*: *Anthrax alternata*, *haleyon*, *Exoprosopa decora*, *fasciata*, *Sparnopolius*, *Systoechus*; *Conop.*: *Zodion fulvifrons*; *Tachin.*: *Arehytas aterrima*, *Cyphocera*, *Peleteria* fq, *Senotainia trilineata*, *Spallanzania*.

Lepidoptera (5)—*Nymphal.*: *Charidryas*, *Vanessa huntera*; *Lycaen.*: *Cyaniris*; *Hesperi.*: *Limochores taumas*; *Ctenuch.*: *Scopsis*.

Rudbeckia subtomentosa.—Blooms July 19–September 16; 97 visitors observed, July 30–September 2; Mis, Y.

Long-tongued Bees (13)—*Ap.*: *Apis*; *Ceratin.*: *Ceratina* ♀, se, ab; *Megachil.*: *Megachile brevis* ♂ ♀, fq, *petulans* ♀, se, fq, *6-dentata* ♀, *Oligotropus* ♀, *Sayapis sayi* ♀, se; *Epeol.*: *Epeolus bifasciatus* ♂, *Triepeolus concolor* ♀; *Eucer.*: *Epimelissodes illinoensis* ♀, se, *obliqua* ♂ ♀, se, ab, *Melissodes simillima* ♂, *trinodis* ♂ ♀, se, fq.

Short-tongued Bees (14)—*Halict.*: *Chloralictus albipennis* ♀, se, *coreopsis* ♀, se, *pilosus* ♂ ♀, se, ab, *sparsus* ♀, se, fq, *versatus* ♀, se, ab, *zephyrus* ♀, *Curtisapis coriacea* ♂, *Evylaeus pectoralis* ♂ ♀, se, ab, *Halictus parallelus* ♂, *Odontalictus* ♂ ♀, se, ab, *Seladonia* ♂ ♀, se, fq; *Panurg.*: *Pseudopanurgus albitarsis* ♀, se, *rudbeckiae* ♂ ♀, se, fq, *solidaginis* ♂ ♀, se, ab.

Other Hymenoptera (16)—*Sphec.*: *Priononyx atrata*, *thomae*, *Sphex gracilis*, *nigricans* fq, *pictipennis* fq, *vulgaris*; *Bembic.*: *Bembix nubillipennis*, *Bicyrtes ventralis* ab, *Stictiella*; *Scoli.*: *Elis 5-cincta*, *Scolia bicincta* fq; *Eumen.*: *Leionotus anormis* ab, *arvensis* fq, *molestus*, *Pterochilus*; *Ichneumon.*: *Ceratosoma*.

Diptera (35)—*Syrph.*: *Eristalis latifrons* fq, *transversus* ab, *Mesogramma geminata*, *marginata* sf, ab, *polita*, *Orthoneura nitida*, *Sphaerophoria*, *Syritta*; *Empid.*: *Parempis* ab; *Bombyli.*: *Exoprosopa decora*, *fascipennis* fq, *Lepidophora*, *Phthiria aldrichi*, *cincta* fq, *Sparnopolius* ab, *Systoechus* ab, *Toxophora*; *Conop.*: *Oneomyia*, *Zodion obliquefasciatum*; *Tachin.*: *Cistogaster occidua* fq, *Epi-primyia floridensis*, *Leucostoma atra*, *siphonina*, *Ocyptera lata*, *tenuis*, *Peleteria*, *Phoranthia humeralis*, *purpurascens*, *Senotainia trilineata*, *Siphona*, *Siphoplaga anomala* ab, *Spallanzania* ab; *Musc.*: *Pseudopyrellia*; *Agromyz.*: *Eusiphona* ab; *Oscin.*: *Siphonella cinerea*.

Lepidoptera (12)—*Nymphal.*: *Basilarchia archippus*, *Charidryas*, *Phyciodes* ab; *Lycaen.*: *Chrysophanus*, *Cyaniris*, *Everes*,

Uranotes; *Papilion.*: Eurymus, Pontia; *Hesperi.*: Hesperia, Limochores taumas; *Ctenuch.*: Sepsis.

Coleoptera (3)—*Cerambyc.*: Batyle f; *Curculion.*: Centrinus scutellum-album f; *Lampyr.*: Chauliognathus pennsylvanicus.

Hemiptera (4)—*Caps.*: Calocoris, Lygus; *Pentatom.*: Euschistus ictericus; *Beryt.*: Harmostes.

The following 76 species and 669 individuals were taken on the flowers, July 30–August 27, 1909:

Long-tongued Bees (11:44)—*Ap.*: Apis 1; *Ceratin.*: Ceratina 11; *Megachil.*: Megachile brevis 2, petulans 5, Oligotropus 1, Sayapis sayi 1; *Epeol.*: Epeolus bifasciatus 1; *Triepeolus* concolor 1; *Eucer.*: Epimelissodes illinoensis 1, obliqua 15, Melissodes trinodis 5.

Short-tongued Bees (13:271)—*Halict.*: Chloralictus albipennis 1, coreopsis 1, pilosus 99, sparsus 7, versatus 56, zephyrus 1, Curtisapis coriacea 1, Evylaeus pectoralis 28, Halictus parallelus 1, Odontalictus 69, Seladonia 5; *Panurg.*: Pseudopanurgus albitarsis 1, solidaginis 1.

Other Hymenoptera (12:59)—*Sphec.*: Priononyx atrata 2, Spheg gracilis 1, nigricans 6, pictipennis 1; *Bembic.*: Bembix nubillipennis 1, Bicyrtes ventralis 21, Stictiella 1; *Scoli.*: Elis 5-cincta 3, Scolia bicincta 6; *Eumen.*: Leonotus anormis 9, arvensis 7, molestus 1.

Diptera (28:247)—*Syrph.*: Eristalis latifrons 2, transversus 20, Mesogramma geminata 2, marginata 8, polita 2, Orthoneura nitida 2, Syrtrita 1; *Empid.*: Parempis 12; *Bombyli.*: Exoprosopa decora 1, fascipennis 6, Lepidophora 2, Phthiria aldrichi 5, cincta 5, Sparnopolius 33, Systoechus 6, Toxophora 1; *Conop.*: Zodion obliquefasciatum 1; *Tachin.*: Cistogaster occidua 1, Epigrimyia floridensis 1, Ocyptera tenuis 5, Peleteria 2, Phoranthia humeralis 1, Senotainia trilineata 2, Siphona 1, Siphoplagia anomala 49, Spallanzania 57; *Musc.*: Pseudopyrellia 1; *Agromyz.*: Eusiphona 18.

Lepidoptera (9:41)—*Nymphal.*: Basilarchia archippus 2, Charidryas 1, Phyciodes 32; *Lycaen.*: Chrysophanus 1, Everes 1; *Papilion.*: Eurymus 1, Pontia 1; *Hesperi.*: Limochores taumas 1; *Ctenuch.*: Sepsis 1.

Coleoptera (3:7)—*Cerambyc.*: Batyle 2; *Curculion.*: Centrinus scutellum-album 3; *Lampyr.*: Chauliognathus pennsylvanicus 2.

Rudbeckia triloba (15:467–8).—Blooms July 19–October 26; 107 visitors observed, July 23–October 1; Mas, Y.

Long-tongued Bees (23)—*Ap.*: Apis sc; *Bomb.*: Bombias auricomus ♂, scutellaris ♀, separatus ♂ ♀ ♀, fq; *Ceratin.*: Ceratina ♀, sc, ab; *Stelid.*: Stelidium ♂; *Megachil.*: Trypetini: Neotrypetes

truncatus ♂ ♀; Megachilini: Megachile brevis ♂, petulans ♂, Sayapis sayi ♀, se; Coelioxyni: Coelioxys alternata ♂ ♀, 8-dentata ♀, sayi ♂; *Epeol.*: Triepeolus concolor ♀, cressonii ♂ ♀, fq, helianthi ♂; *Eucer.*: Epimelissodes obliqua ♂ ♀, se, ab, Melissodes agilis ♂ ♀, fq, bimaculata ♂ ♀, boltoniae ♀, e, simillima ♂, trinodis ♂ ♀, se, fq, vernoniana ♂ ♀.

Short-tongued Bees (25)—*Halict.*: Agapostemon radiatus ♂, Chloralictus pilosus ♂ ♀, se, fq, sparsus ♀, se, versatus ♂ ♀, se, zephyrus ♂ ♀, Curtisapis coriacea ♂ ♀, Evylaeus pectoralis ♀, se, ab, Halictus lerouxii ♀, Odontalictus ♂ ♀, se, ab, Oxystoglossa confusa ♀, se, pura ♀, se, similis ♀, se, Seladonia ♂ ♀; *Collet.*: Colletes americanus ♀, se, compactus ♀, se; *Andren.*: Pterandrena aliciae ♂ ♀, se, fq, rudbeckiae ♀, se; *Panurg.*: Calliopsis andreniformis ♂, coloradensis ♂ ♀, se, Pseudopanurgus asteris ♀, se, compositarum ♂, labrosiformis ♀, se, labrosus ♂ ♀, se, ab, rudbeckiae ♂ ♀, se, ab, in cop, type, rugosus ♂ ♀, se.

Other Hymenoptera (12)—*Sphex.*: Sphex gracilis, nigricans; *Bembic.*: Bembix spinolae, Bicyrtes ventralis, Stictiella; *Scoli.*: Elis interrupta, 5-cincta, Seolia bicincta; *Vesp.*: Polistes variatus; *Eumen.*: Leionotus arvensis; *Oxybel.*: Notoglossa americana; *Ichneumon.*: Exetastes suaveolens.

Diptera (37)—*Syrph.*: Eristalis latifrons, transversus fq, Mallola cimbiciformis, Spilomyia longicornis, Volucella fasciata; *Empid.*: Parempis fq; *Bombyli.*: Anthrax fulvohirta, haleyon fq, Argyramoeba oedipus f, n, Exoprosopa decora, fasciata, fascipennis, Geron rufipes, Lepidophora, Phthiria cincta, Sparnopolius fq, Systoechus, Systropus, Toxophora; *Conop.*: Conops brachyrrhynchus, Oneomyia, Zodion obliquefasciatum; *Tachin.*: Apinops, Archytas analis, Cistogaster occidua, Epigrimyia geniculata ab, illinoensis type, Leskiomima secunda, Ocyptera tenuis, Peleteria fq, Senotainia trilineata, Siphoplusia anomala ab, Spallanzania, Trichophora; *Dexi.*: Ptilodexia; *Musc.*: Pseudopyrellia; *Agromyz.*: Eusiphona.

Lepidoptera (7)—*Nymphal.*: Basilarchia archippus, Charidryas fq, Phyciodes fq; *Lycaen.*: Everes; *Papilion.*: Eurymus, Pontia; *Hesperid.*: Polites.

Coleoptera (3)—*Lampyr.*: Chauliognathus pennsylvanicus ab; *Melo.*: Epicauta pennsylvanica f, n; *Mordell.*: Mordella marginata f, n.

The following 23 visitors and 138 individuals were taken on the flowers on August 20, 24:

Long-tongued Bees (5:7)—*Bomb.*: Bombias auricomus 1; *Ceratin.*: Ceratina 1; *Megachil.*: Megachile petulans 1; *Eucer.*: Epimelissodes obliqua 2, Melissodes boltoniae 2.

Short-tongued Bees (6:44)—*Halict.*: *Chloralictus pilosus* 2, *versatus* 1, *Evylaeus pectoralis* 2, *Odontalictus* 36, *Oxystoglossa similis* 1; *Panurg.*: *Pseudopanurgus rudbeckiae* 2.

Other Hymenoptera (2:3)—*Sphec.*: *Sphex nigricans* 1; *Eumen.*: *Leionotus arvensis* 2.

Diptera (6:34)—*Syrph.*: *Eristalis transversus* 6; *Bombyli.*: *Sparnopoli* 3, *Systoechus* 1; *Tachin.*: *Cistogaster occidua* 1, *Siphoplusia anomala* 22; *Musc.*: *Pseudopyrellia* 1.

Lepidoptera (2:7)—*Nymphal.*: *Basilarchia archippus* 1, *Phyciodes* 6.

Coleoptera (2:43)—*Lampyr.*: *Chauliognathus pennsylvanicus* 42; *Epicauta pennsylvanica* 1.

Senecio aureus.—Blooms May 7–June 5; 18 visitors observed on May 15, June 2; Mis, Y.

Long-tongued Bees (4)—*Ceratin.*: *Ceratina* ♂; *Nomad.*: *Centrias americanus* ♂, *Holonomada superba* ♂ ♀, fq; *Eucer.*: *Tetralonia dilecta* ♂, fq.

Short-tongued Bees (5, ♀)—*Halict.*: *Chloralictus pilosus* sc, ab, *pruinus* sc, *Odontalictus* sc, ab, *Oxystoglossa confusa*, sc, *similis*.

Other Hymenoptera (1)—*Eumen.*: *Leionotus clypeatus*.

Diptera (8)—*Syrph.*: *Eristalis latifrons*, *Mesogramma marginata*, *Sphaerophoria*, *Tropidia mamillata*; *Conop.*: *Zodion fulvifrons*; *Tachin.*: *Cistogaster occidua*, *Epigrimyia floridensis* fq, *Peleteria*.

Silphium integrifolium (15:463).—Blooms June 10–September 20; 24 visitors observed, July 7–September 16; Mas, Y.

Long-tongued Bees (18)—*Ap.*: *Apis* sc; *Bomb.*: *Bombus consimilis* ♀, *impatiens* ♀; *Ceratin.*: *Ceratina* ♀, fq; *Megachil.*: *Cyphopyga* ♂, *Megachile brevis* ♂, *mendica* ♀, *petulans* ♂, *Sayapis pollicaris* ♀, *pugnata* ♂ ♀, sc, ab, *sayi* ♂; *Epeol.* (♂): *Tripeolus concavus*, *remigatus*, *simplex*; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, *Melissodes agilis* ♂, fq, *coloradensis* ♂ ♀, sc, *trinodis* ♂, fq.

Short-tongued Bees (3)—*Halict.*: *Agapostemon radiatus* ♂ ♀, sc, *Odontalictus* ♀; *Andren.*: *Pterandrena pulchella* ♀.

Diptera (3)—*Bombyli.*: *Systoechus*; *Conop.*: *Physocephala tibialis*; *Tachin.*: *Cistogaster occidua*.

Silphium laciniatum (15:463–4).—Blooms June 21–August 30; 29 visitors observed, July 16–August 6; Mas, Y.

Long-tongued Bees (13)—*Ap.*: *Apis*; *Bomb.*: *Bombias separatus* ♀ ♀, *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.* (♀): *Megachile brevis*, *6-dentata*, *Sayapis pugnata*, sc; *Epeol.*: *Tri-*

epolus concavus ♂, concolor ♂ ♀; *Eucer.*: *Epimelissodes obliqua* ♂, *Melissodes agilis* ♂ ♀, ab, *bimaculata* ♂, *coloradensis* ♂ ♀, se, fq.

Short-tongued Bees (5, ♀)—*Halict.*: *Agapostemon texanus* se, *viridulus* se, *Chloralictus pilosus* e, n, *sparsus* e, n, *Odontalictus* e, n.

Diptera (9)—*Syrph.*: *Allograpta*, *Eristalis latifrons*, transversus, *Tropidia mamillata*; *Bombyli.*: *Anthrax alternata* f, n, *Geron rufipes*, *Systoechus*; *Conop.*: *Zodion fulvifrons*, *obliquefasciatum*.

Lepidoptera (2)—*Nymphal.*: *Anosia*; *Papilion.*: *Eurymus* fq.

Silphium perfoliatum (16: 176-7).—Blooms July 9-September 12; 75 visitors observed, July 23-September 12; Mas, Y.

Long-tongued Bees (26)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombias scutellaris* ♂, *separatus* ♂ ♀, *Bombus americanorum* ♂ ♀ ♀, se, fq, *consimilis* ♀, se, fq, *impatiens* ♀, se, fq; *Ceratin.*: *Ceratina* ♀, se, fq; *Megachil.*: *Megachilini*: *Megachile brevis* ♂ ♀, se, *mendica* ♂ ♀, se, *petulans* ♂ ♀, se, fq, *Sayapis pugnata* ♀, se, fq, *sayi* ♂; *Coelioxyni*: *Coelioxys germana* ♂; *Epeol.*: *Triepeolus concavus* ♂ ♀, concolor ♂ ♀, fq, *lunatus* ♂, *remigatus* ♂ ♀, fq, *simplex* ♂; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, se, *Melissodes agilis* ♂ ♀, fq, *bimaculata* ♂, *coloradensis* ♂ ♀, se, *simillima* ♂, *trinodis* ♂ ♀, fq, *vernoniae* ♀, *vernoniana* ♂ ♀, fq.

Short-tongued Bees (14)—*Halict.*: *Agapostemon radiatus* ♂ ♀, se, *splendens* ♂, *viridulus* ♀, se, fq, *Chloralictus pilosus* ♀, e, fq, n, *sparsus* ♀, e, fq, n, *versatus* ♀, e, n, *Evylaeus pectoralis* ♀, e, n, *Halictus lerouxii* ♀, *Odontalictus* ♀, se, *Oxystoglossa confusa* ♀; *Andren.*: *Pterandrena aliciae* ♀, *pulchella* ♂, fq; *Panurg.*: *Pseudopanurgus labrosiformis* ♂, fq, *rugosus* ♂ ♀.

Other Hymenoptera (3)—*Sphex.*: *Sphex procerus*; *Scoli.*: *Scolia bicincta*; *Eumen.*: *Leionotus dorsalis*.

Diptera (12)—*Syrph.*: *Allograpta* f, n, *Eristalis tenax*, transversus, *Milesia* f, n; *Bombyli.*: *Anthrax alternata* f, n, *halcyon*, *Exoprosopa fasciata*, *Geron rufipes*, *Sparnopolius*, *Systoechus* fq; *Conop.*: *Zodion obliquefasciatum*; *Tachin.*: *Archytas aterrима*.

Lepidoptera (20)—*Nymphal.*: *Anosia*, *Basilarchia archippus*, *astyanax*, *Charidryas*, *Polygonia interrogationis*, *Vanessa atalanta*, *cardui*, *huntera*; *Lycuen.*: *Chrysophanus*; *Papilion.*: *Euphœades*, *Eurymus*, *Heraclides*, *Jasoniades*, *Laertias*, *Pontia*; *Hesperid.*: *Atrytone delaware*, *zabulon*, *Epargyreus*, *Limochores taumas*, *Pholisora catullus*.

Silphium terebinthinaceum.—Blooms July 2-September 30; 13 visitors observed, August 9-28; Mas, Y.

Birds (1)—*Trochil.*: Trochilus.

Long-tongued Bees (7)—*Ap.*: Apis sc, fq; *Bomb.*: Bombus americanorum ♀, impatiens ♀, se; *Ceratin.*: Ceratina ♀, se; *Megachil.*: Megachile brevis ♀; *Eucer.*: Epimelissodes obliqua ♀, se, Melissodes coloradensis ♂.

Short-tongued Bees (2)—*Halict.*: Agapostemon radiatus ♂, Odontalictus ♂ ♀, se, fq.

Other Hymenoptera (1)—*Sphec.*: Sphecx procerca.

Diptera (2)—*Bombyli.*: Sparnopolius, Systoechus.

Solidago canadensis (15:455-6).—Blooms August 1-October 17; 218 visitors observed, August 1-October 10; Mis, Y.

Long-tongued Bees (22)—*Ap.*: Apis sc, ab; *Bomb.*: Bombias scutellaris ♂ ♀, separatus ♂ ♀, fq, Bombus americanorum ♂ ♀, ab, consimilis ♂, impatiens ♂ ♀ ♀, se, fq, Psithyrus variabilis ♀; *Ceratin.*: Ceratina ♀, se; *Stelid.*: Stelidium ♂ ♀, fq; *Megachil.*: Trypetini: Neotrypetes productus ♂, truncatus ♂ ♀, se, ab; Osmiini: Ashmeadiella ♀, se; Coelioxyni: Coelioxys sayi ♂ ♀; *Nomad.*: Holonomada placida ♂ ♀, Nomada vicina ♂; *Epeol.*: Epeolus autumnalis ♀, pusillus ♂ ♀, Triepeolus pectoralis ♂; *Eucer.*: Melissodes autumnalis ♀, se, boltoniae ♀, se, nivea ♀, se, simillima ♂.

Short-tongued Bees (28)—*Halict.*: Augochlora viridula ♂, Chloralictus albipennis ♀, se, versatus ♂, ab, Curtisapis coriacea ♀, se, forbesii ♂ ♀, se, Halictus lerouxii ♀, se, Odontalictus ♀, se, Seladonia ♂ ♀, se; *Sphecodini*: Machaeris stygia ♂, Sphecodes heraclei ♀, Sphecodium cressonii ♂ ♀, fq, smilacinae ♂; *Prosopid.* (♂ ♀): Prosopis illinoensis fq, pygmaea ab, sayi ab, ziziae sf, ab; *Collet.*: Colletes americanus ♂ ♀, se, ab, armatus ♂ ♀, se, fq, compactus ♀, se, eulophi ♂; *Andren.* (♂ ♀, se, ab): Andrena nubecula, Pterandrena solidaginis in cop, *type*; *Panurg.*: Calliopsis coloradensis ♂ ♀, se, fq, in cop, Heterosarus ♀, se, Perdita ♂ ♀, se, fq, in cop, Pseudopanurgus asteris ♂ ♀, se, fq, in cop, labrosiformis ♂, solidaginis ♂ ♀, se, ab, *type*.

Other Hymenoptera (81)—*Sphec.*: Ammobia ichneumonea, pennsylvanica, Isodontia apicalis, Priononyx atrata, thomae, Sceliphron, Sphecx vulgaris; *Bembic.*: Stizus; *Scoli.*: Elis interrupta, 5-cincta, Scolia bicincta, nobilitata; *Philanth.*: Cerceris compacta, finitima, fulvipes fq, kennicottii, prominens, Eucerceris fq; *Vesp.*: Polistes annularis ab, pallipes ab, rubiginosus, variatus ab, Vespa cuneata, germanica; *Eumen.*: Ancistrocerus campestris, capra ab, catskillensis, tigris ab, Eumenes fraternus, Leonotus anormis, arvensis, foraminatus, scrophulariae fq, ziziae, Zethus; *Crabron.*: Anacrabro fq, Clytochrysus, Hypocrabro, Lindenius errans, Lopho-

crabro, Solenius, Synothyreopus, Xestocerabro 6-maculatus; *Oxybel.*: Notoglossa americana fq, frontalis fq, Oxybelus niger, 4-notatus; *Pemphredon.*: Mimesa; *Larr.*: Larropsis fq, Tachysphex acutus; *Nysson.*: Pseudoplisus phaleratus; *Pompil.*: Anoplius illinoensis type, Ceropales bipunctata, elegans, fraterna, fulvipes, Cryptoecheilus agenioides type, Episyrion fq, Poecilopompilus interruptus, navus, Pompiloides marginatus, subviolaceus, Prioenemoides fulvicornis, Psammochares relativus; *Tiphi.*: Tiphia punctata; *Chrysid.*: Hedychrom violaceum; *Chalcid.*: Leucospis fq, Perilampus fulvicornis, robertsonii; *Evani.*: Foenus tarsatorius; *Ichneumon.*: Ceratosoma, Cremastus retiniae, Lampronota americana, varia, Limneria eurycreontis Metopius polyeinctorius; *Bracon.*: Agathis areolata fq, type, Bracon simplex, vernoniae, Chelonus, Iphiaulax ab.

Diptera (62)—*Stratiomy.*: Nemotelus; *Syrph.*: Allograpta, Chilosis punctulata, Eristalis bastardi, dimidiatus ab, flavipes, latifrons, tenax, Helophilus latifrons, similis sf, ab, Mesogramma geminata, polita fq, Milesia, Orthoneura nitida sf, Paragus bicolor, Platychirus hyperboreus, quadratus, Spilomyia longicornis, quadrifasciata, Syritta, Syrphus americanus, Tropidia mamillata fq, Xanthogramma emarginata; *Empid.*: Parempis; *Bombyli.*: Exoprosopa decora, fascipennis, Geron rufipes, Sparnopolius, Toxophora; *Conop.*: Conops brachyrrhynchus, sylvosus, xanthopareus, Oncomyia, Physocephala texana, tibialis, Robertsonomyia; *Tachin.*: Actia, Amobia distincta type, Apinops, Belvosia unifasciata, Cistogaster oecidia, Euryceromyia robertsonii type, Gymnosoma, Hilarrella aristalis type, Ennyomma elistoides type, nigrifrons type, Phasioclista metallica type, Ocyptera tenuis, Pachyophthalmus signatus, Senotainia trilineata, Trichopoda plumipes; *Sarcophag.*: Helicobia helieis, Sarcophaga cimbeis, hunteri; *Musc.*: Compsomyia fq, Graphomyia, Morellia, Pseudopyrellia ab, Stomoxys; *Anthomy.*: Calythea, Phorbia acra; *Trypet.*: Trypeta humilis.

Lepidoptera (8)—*Nymphal.*: Anosia, Vanessa cardui; *Lycaen.*: Chrysophanus; *Papilion.*: Eurymus; *Ctenuch.*: Seepsis; *Noctu.*: Carneades, Feltia, Heliopsis armiger ab.

Coleoptera (14)—*Bruch.*: Bruchus obsoletus; *Carab.*: Callida f; *Cerambyc.*: Cyllene decorus f, robiniae f, fq; *Chrysomel.* (f): Diabrotica 12-punctata ab, longicornis ab, vittata; *Coccinell.*: Coccinella 9-notata, Hippodamea glacialis fq, Megilla f; *Lampyr.*: Chauliognathus pennsylvanicus ab; *Malach.*: Collops; *Melo.*: Epicauta pennsylvanica f, ab; *Scarabae.*: Euphoria sepulchralis f.

Hemiptera (3)—*Caps.*: Calocoris; *Core.*: Alydus pilosulus; *Lygae.*: Lygaeus.

Solidago graminifolia (15: 457-8).—Blooms July 29–September 29; 44 visitors observed, September 4–25; Mis, Y.

Long-tongued Bees (7)—*Ap.*: *Apis* sc, ab; *Bomb.*: *Bombias scutellaris* ♀, *separatus* ♂, *Bombus americanorum* ♂ ♀, fq, *impatiens* ♀, sc, fq; *Eucer.*: *Melissodes boltoniae* ♀ sc, *nivea* ♀, sc, *type*.

Short-tongued Bees (4, ♀, sc)—*Halict.*: *Chloralictus versatus*, *Odontalictus*; *Collet.*: *Colletes armatus*; *Andren.*: *Pterandrena solidaginis*.

Other Hymenoptera (14)—*Sphec.*: *Priononyx atrata*; *Bembic.*: *Bembix nubillipennis*, *Megastizus*; *Scoli.*: *Elis 5-cincta*, *Scolia bicincta*; *Philanth.*: *Eucerceris*; *Vesp.*: *Polistes pallipes*, *variatus*; *Eumen.*: *Ancistrocerus capra* ab, *catskillensis*, *tigris*; *Crabron.*: *Hypocrabro*, *Xestocrabo 6-maculatus*; *Larr.*: *Larropsis*; *Pompil.*: *Priocnemoides fulvicornis*.

Diptera (9)—*Syrph.*: *Helophilus latifrons*, *similis* ab, *Sphaerophoria*, *Spilomyia 4-fasciata*; *Tachin.*: *Cistogaster occidua*, *Paradidyma*, *Senotainia rubriventris*; *Musc.*: *Compsomyia*, *Pseudopyrellia*.

Lepidoptera (8)—*Nymphal.*: *Phyciodes*, *Vanessa huntera*; *Lycaen.*: *Chrysophanus*, *Everes*; *Papilion.*: *Eurymus*; *Arcti.*: *Utetheisa*; *Cramb.*: *Crambus*; *Noctu.*: *Heliothis armiger*.

Coleoptera (2)—*Lampyr.*: *Chauliognathus pennsylvanicus* ab; *Melo.*: *Epicauta pennsylvanica* ab.

Solidago missouriensis (15: 454-5).—Blooms June 26–August 22; 69 visitors observed, July 21–August 19; Mis, Y.

Long-tongued Bees (6)—*Ap.*: *Apis*; *Ceratin.*: *Ceratina* ♂; *Megachil.*: *Coelioxys 8-dentata* ♀; *Epeol.*: *Epeolus bifasciatus* ♀; *Eucer.*: *Epimelissodes obliqua* ♀, sc, fq, *Melissodes boltoniae* ♀, sc.

Short-tongued Bees (10)—*Halict.*: *Chloralictus albipennis* ♀, sc, *sparsus* ♀, sc, *tegularis* ♀, sc, *versatus* ♂ ♀, sc, ab, *Evylaeus pectoralis* ♂ ♀, sc, *Odontalictus* ♀, sc, ab, *Oxystoglossa similis* ♀, *Seladonia* ♀; *Sphecodini*: *Machaeris stygia* ♀; *Prosopid.*: *Prosopis pygmaea* ♂ ♀, ab.

Other Hymenoptera (31)—*Sphec.*: *Ammobia ichneumonea*, *pennsylvanica*, *Priononyx atrata*, *Sphex nigricans*, *pictipennis*, *vulgaris*; *Scoli.*: *Elis interrupta*, *5-cincta* ab, *Scolia bicincta* fq; *Philanth.*: *Cerceris clypeata*, *compacta*, *finitima*, *Eucerceris*, *Philanthus ventilabris*; *Vesp.* *Polistes variatus*; *Eumen.*: *Eumenes fraternus*, *Leionotus anormis*, *arvensis* fq, *histrionalis*, *vagus*; *Crabron.*: *Protothyreopus bigeminus*, *Solenius*; *Oxybel.*: *Notoglossa americana*, *frontalis*, *Oxybelus 4-notatus*; *Larr.*: *Larropsis* fq; *Nysson.*: *Silaon*;

Chrysid.: Hedyehrum wiltii ab; *Chalcid.*: Perilampus cyaneus; *Ichneumon.*: Ceratosoma fq; *Bracon.*: Microdus.

Diptera (17)—*Syrph.*: Mesogramma marginata, Syrirta; *Empid.*: Parempis; *Bombyli.*: Exoprosopa fascipennis fq; *Conop.*: Zodium obliquefasciatum; *Tachin.*: Alophora aeneoventris, Cistogaster oecidia, Gymnosoma, Gymnoprosope, Phorantha magna, pruinosa, Senotainia rubriventris, trilineata fq, Siphoplusia anomala, flaccidirostris; *Sarcophag.*: Helicobia heliciis; Sarcophaga hunteri.

Coleoptera (4)—*Chrysomel.*: Diabrotica 12-punctata f; *Lam-pyr.*: Chauliognathus pennsylvanicus; *Melo.*: Epicauta pennsylvanica f, ab, n; *Rhipiphor.*: Myodites.

Hemiptera (1)—*Lygae.*: Lygaeus.

July 30, 1909, the following 13 species and 32 individuals were taken on the flowers:

Long-tongued Bees (1: 1)—*Megachil.*: Coelioxys 8-dentata 1.

Short-tongued Bees (3: 19)—*Halict.*: Chloralictus sparsus 4, versatus 10; *Prosopid.*: Prosopis pygmaea 5.

Other Hymenoptera (5: 5)—*Sphex.*: Sphex vulgaris 1; *Philanth.*: Cereceris finitima 1; *Eumen.*: Leionotus histrionalis 1; *Oxybel.*: Notoglossa americana 1; *Nysson.*: Silaon 1.

Diptera (4: 7)—*Syrph.*: Mesogramma marginata 1, Syrirta 3; *Empid.*: Parempis 1; *Tachin.*: Cistogaster oecidia 2.

Solidago nemoralis (15: 457).—Blooms September 9–October 18; 92 visitors observed, September 19–October 9; Mis, Y.

Long-tongued Bees (8)—*Ap.*: Apis se, ab; *Bomb.*: Bombias auricomus ♂, Bombus americanorum ♂ ♀ ♀, impatiens ♂; *Ceratin.*: Ceratina ♂ ♀, fq; *Megachil.*: Neotrypetes truncatus ♀, se, Megachile brevis ♀, se; *Epeol.*: Triepeolus cressonii ♀.

Short-tongued Bees (15)—*Halict.*: Chloralictus illinoensis ♂, versatus ♂ ♀, se, fq, Evylaeus pectoralis ♀, Odontalictus ♂, Oxystoglossa similis ♀, Paralictus platyparius ♀; *Prosopid.*: Prosopis pygmaea ♀, fq; *Collet.*: Colletes americanus ♂ ♀, se, ab, armatus ♂ ♀, se, fq, compactus ♀, se, fq, eulophi ♀, se; *Andren.*: Andrena nubecula ♀, se, ab, Pterandrena asteris ♀, se; *Panurg.*: Pseudopanurgus asteris ♀, se, compositarum ♀.

Other Hymenoptera (28)—*Sphex.* Sphex pictipennis, procer, vulgaris; *Philanth.*: Cereceris clypeata, finitima, kennicottii, Philanthus punctatus; *Vesp.*: Polistes annularis ab, pallipes fq, rubiginosus, variatus fq; *Eumen.*: Ancistrocerus catskillensis, tigris, Leionotus anormis, foraminatus, histrionalis; *Crabron.*: Protothyreopus rufifemur, Solenius fq; *Oxybel.*: Notoglossa frontalis; *Pemphre-*

don.: Mimesa; *Larr.*: Larropsis; *Pompil.*: Anoplius illinoensis, Ceropales fraterna, fulvipes, Planiceps niger, Pompiloides marginatus; *Chrysid.*: Gonochrysis; *Bracon.*: Chelonus.

Diptera (27)—*Syrph.*: Mesogramma geminata, Sphaerophoria, Spilomyia longicornis, Syrretta sf, Syrphus americanus sf, arcuatus; *Bombyli.*: Sparnopolius, Systropus; *Conop.*: Oncomyia; *Tachin.*: Archytas aterrima, Gymnosoma, Pachyophthalmus signatus fq, Polidea, Trichopoda pennipes, Xanthomelana; *Sarcophag.*: Helicobia helicis, Sarcophaga cimbicis, hunteri; *Musc.*: Compsomyia, Lucilia caesar, sericata, Musca, Pseudopyrellia, Stomoxys; *Oscin.*: Chlorops proxima; *Trypet.*: Trypeta humilis, solaris.

Lepidoptera (6)—*Nymphal.*: Anosia; *Papilion.*: Eurema, Eurymus; *Arcti.*: Utetheisa; *Ctenuch.*: Scepsis; *Noctu.*: Heliopsis armiger.

Coleoptera (5)—*Cerambyc.*: Cyllene robiniae f; *Chrysomel.*: Diabrotica longicornis; *Coccinell.*: Coccinella 9-notata f; *Lampyr.*: Chauliognathus pennsylvanicus; *Melo.*: Epicauta pennsylvanica f, ab, in cop.

Hemiptera (3)—*Caps.*: Lygus; *Core.*: Alydus pilosulus; *Lygae.*: Lygaeus.

October 4, 1909, the following 17 species and 56 individuals were taken on the flowers:

Long-tongued Bees (1: 21)—*Ap.*: Apis 21.

Short-tongued Bees (2: 10)—*Andren.*: Andrena nubecula 9; *Panurg.*: Pseudopanurgus asteris 1.

Other Hymenoptera (4: 12)—*Vesp.*: Polistes annularis 9, variatus 1; *Eumen.*: Ancistrocerus catskillensis 1, tigris 1.

Diptera (5: 5)—*Syrph.*: Mesogramma geminata 1; *Bombyli.*: Sparnopolius 1; *Tachin.*: Xanthomelana 1; *Musc.*: Lucilia caesar 1, Pseudopyrellia 1.

Lepidoptera (1: 1)—*Ctenuch.*: Scepsis 1.

Coleoptera (3: 6)—*Cerambyc.*: Cyllene robiniae 1; *Chrysomel.*: Diabrotica longicornis 3; *Lampyr.*: Chauliognathus pennsylvanicus 2.

Hemiptera (1: 1)—*Lygae.*: Lygaeus 1.

Solidago rigida.—Blooms August 23–October 7; 52 visitors observed, September 4–25; Mas, Y.

Long-tongued Bees (9)—*Ap.*: Apis; *Bomb.*: Bombus americanorum ♂ ♀ ♀, ab, impatiens ♂ ♀ ♀, sc, Psithyrus variabilis ♀; *Megachil.*: Megachile brevis ♀, sc, Xanthosarus ♀; *Eucer.*: Epimelessodes obliqua ♀, sc, Melissodes autumnalis ♂ ♀, sc, ab, nivea ♀.

Short-tongued Bees (3)—*Halict.*: *Chloralictus versatus* ♀; *Collet.*: *Colletes americanus* ♀, *se. compactus* ♂.

Other Hymenoptera (16)—*Sphéc.*: *Priononyx atrata*, *thomae*, *Sphex procerus*; *Philanth.*: *Cerceris compacta*, *prominens*; *Vesp.*: *Polistes annularis*, *pallipes*, *variatus*; *Eumen.*: *Ancistrocerus capra*, *tigris* fq, *Leionotus arvensis*, *foraminatus*, *serophulariae*; *Crabron.*: *Protothyreopus rufifemur*, *Solenius*; *Pompil.*: *Ageniella petiolata*.

Diptera (13)—*Syrph.*: *Paragus bicolor*, *tibialis* f, n, *Sphaerophoria*, *Syritta*; *Bombyli.*: *Sparnopolius* ab; *Conop.*: *Stylogaster biannulata*; *Tachin.*: *Cistogaster oecidua*, *Linnaemyia*, *Pachyophthalmus signatus*, *Spallanzania*; *Sarcophag.*: *Sarcophaga cimbicis*; *Musc.*: *Compsomyia*, *Pseudopyrellia*.

Lepidoptera (7)—*Nymphal.*: *Anosia*, *Basilarchia archippus*; *Lycæen.*: *Everes*, *Heodes*; *Papilion.*: *Eurymus*; *Hesperid.*: *Polites*; *Noctu.*: *Drasteria erechtea*.

Coleoptera (4)—*Chrysomel.* (f, n): *Diabrotica 12-punctata*, *longicornis* ab; *Lampyr.*: *Chauliognathus pennsylvanicus* ab; *Melo.*: *Epicauta pennsylvanica* f, ab, n.

September 18, 25, 1909, the following 29 species and 146 individuals were taken on the flowers:

Long-tongued Bees (6:51)—*Ap.*: *Apis* 2; *Bomb.*: *Bombus americanorum* 35, *impatiens* 3, *Psithyrus variabilis* 1; *Megachil.*: *Megachile brevis* 1; *Eucer.*: *Melissodes autumnalis* 9.

Short-tongued Bees (2:2)—*Collet.*: *Colletes americanus* 1, *compactus* 1.

Other Hymenoptera (9:17)—*Sphéc.*: *Sphex procerus* 2; *Philanth.*: *Cerceris compacta* 1; *Vesp.*: *Polistes annularis* 1, *pallipes* 1, *variatus* 2; *Eumen.*: *Ancistrocerus capra* 2, *tigris* 5, *Leionotus foraminatus* 2, *serophulariae* 1.

Diptera (5:22)—*Syrph.*: *Paragus tibialis* 1, *Sphaerophoria* 2; *Bombyli.*: *Sparnopolius* 17; *Tachin.*: *Spallanzania* 1; *Musc.*: *Compsomyia* 1.

Lepidoptera (3:4)—*Lycæen.*: *Everes* 1, *Heodes* 1; *Noctu.*: *Drasteria erechtea* 2.

Coleoptera (4:50; 3:25 n)—*Chrysomel.*: *Diabrotica 12-punctata* 1, *longicornis* 11; *Lampyr.*: *Chauliognathus pennsylvanicus* 25; *Melo.*: *Epicauta pennsylvanica* 13, n.

Solidago serotina.—Blooms August 24–September 27; seven visitors observed, August 30–September 20; Mas (Mis), Y.

Long-tongued Bees (3)—*Bomb.*: *Bombus americanorum* ♀, *consimilis* ♀; *Eucer.*: *Melissodes simillima* ♂.

Short-tongued Bees (1)—*Panurg.*: *Pseudopanurgus asteris* ♀, *se.*

Other Hymenoptera (1)—*Crabron.*: Xestocrabro 6-maculatus.

Diptera (1)—*Syrph.*: Spilomyia 4-fasciata.

Coleoptera (1)—*Cerambyc.*: Cyllene robiniae f, n.

Solidago speciosa.—Blooms September 12–October 17; nine visitors observed, September 23–October 6; Mas, Y.

Long-tongued Bees (5)—*Ap.*: Apis fq; *Bomb.*: Bombias auricomus ♀, Bombus americanorum ♂ ♀, fq, impatiens ♂ ♀, Psithyrus variabilis ♀.

Other Hymenoptera (1)—*Vesp.*: Polistes variatus.

Lepidoptera (2)—*Nymphal.*: Vanessa huntera; *Ctenuch.*: Scepis fq.

Coleoptera (1)—*Lampyr.*: Chauliognathus pennsylvanicus fq.

Solidago ulmifolia.—Blooms August 20–October 7; 52 visitors observed, August 22–September 20; Mis, Y.

Long-tongued Bees (7)—*Bomb.*: Bombus impatiens ♂; *Megachil.*: Neotrypetes truncatus ♂ ♀, se, fq; Megachile brevis ♂; *Eucer.* (♀, se): Melissodes autumnalis, boltoniae, simillima, trinodis.

Short-tongued Bees (15)—*Halict.*: Chloralictus sparsus ♂ ♀, se, Evylaeus pectoralis ♀, se; Sphecodini: Sphecodium cressonii ♂ ♀; *Prosopid.*: Prosopis illinoensis ♀, pygmaea ♀, ziziae ♂ ♀; *Collet.*: Colletes americanus ♀, se, armatus ♂ ♀, se; *Andren.*: Andrena nubecula ♂ ♀, se, fq, Pterandrena asteris ♂ ♀, se, solidaginis ♀, se, fq; *Panurg.* (se): Heterosarus ♀, Perdita ♀, Pseudopanurgus asteris ♂ ♀, ab, compositarum ♀.

Other Hymenoptera (14)—*Sphec.*: Sphecx vulgaris; *Philanth.*: Cereceris astarte, prominens; *Vesp.*: Polistes annularis, pallipes; *Eumen.*: Ancistrocerus campestris, tigris, Eumenes fraternus, Leionotus scrophulariae; *Crabron.*: Rhopalum scutellatum, Synothyreopus; *Larr.*: Larropsis; *Chrysid.*: Hedychrum violaceum; *Nysson.*: Alyson.

Diptera (15)—*Syrph.*: Allograpta, Helophilus similis, Spilomyia longicornis, Syrirta, Syrphus americanus; *Empid.*: Parempis; *Bombyli.*: Anthrax alternata f, Exoprosopa decora, Geron rufipes, Sparnopolius; *Tachin.*: Archytas aterrima, Ennyomma nigrifrons, Peleteria, Siphona; *Musc.*: Morellia.

Hemiptera (1)—*Caps.*: Lygus.

Taraxacum officinale (int.).—Blooms March 23–November 27; 18 visitors observed, March 28–May 28; Mis, Y.

Long-tongued Bees (5)—*Ap.*: Apis se, fq; *Bomb.*: Bombus impatiens ♀; *Megachil.*: Ceratosmia ♂, Osmia pumila ♂; *Nomad.*: Nomada denticulata ♂.

Short-tongued Bees (6)—*Halict.* (♀): *Agapostemon radiatus* se, *Chloralictus versatus* fq, *Odontalictus* se; *Andren.* (♂): *Andrena dunningii*, *Opandrena cressonii*, *miserabilis* fq.

Diptera (6)—*Syrph.*: *Eristalis aeneus*; *Bombyli.*: *Bombylius major*, *pulchellus*; *Conop.*: *Myopa vesiculosa*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*.

Lepidoptera (1)—*Nymphal.*: *Vanessa huntera*.

Verbesina helianthoides (15:471-2).—Blooms June 6–August 10; 46 visitors observed, June 10–July 11; Mas, Y.

Long-tongued Bees (21)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombias auricomus* ♀, *Bombus americanorum* ♀ ♀; *Ceratin.*: *Ceratina* ♀, fq; *Megachil.*: Trypetini: *Neotrypetes truncatus* ♀, se; Osmiini: *Ashmeadiella* ♀, se, *Hoplitis* ♀; *Megachilini*: *Cyphopyga* ♂ ♀, *Megachile brevis* ♂ ♀, se, fq, *mendica* ♀, se, *petulans* ♂ ♀, se, *6-dentata* ♀, *Sayapis pollicaris* ♂, *pugnata* ♂ ♀, se, fq, *Xanthosarus* ♂; *Coelioxyni*: *Coelioxys alternata* ♂, *8-dentata* ♂, *rufitarsis* ♂; *Epeol.*: *Epeolus bifasciatus* ♂; *Eucер.*: *Epimelissodes obliqua* ♀, *Tetralonia dilecta* ♀.

Short-tongued Bees (14)—*Halict.*: *Agapostemon viridulus* ♀, *Chloralictus pilosus* ♀, se, *sparsus* ♀, e, n, *versatus* ♀, se, *Curtisapis eoriaeae* ♀, *Evylaus arcuatus* ♀, *Haliectus lerouxii* ♀, se, *Odontalictus* ♂ ♀, se, *Oxystoglossa pura* ♂, *similis* ♀, se; *Collet.*: *Colletes eulophi* ♀, se; *Andren.*: *Pterandrena rudbeckiae* ♀; *Panurg.*: *Calliopsis andreniformis* ♀, se, *Pseudopanurgus albitarsis* ♂ ♀, se.

Other Hymenoptera (4)—*Sphee.*: *Sphex nigricans* fq, *pictipennis*, *procera* fq; *Bembic.*: *Stictiella*.

Diptera (4)—*Syrph.*: *Eristalis transversus*, *Mesogramma marginata* f, n; *Bombyli.*: *Anthrax parvicornis*, *Systoechus*.

Lepidoptera (3)—*Nymphal.*: *Phyciodes*; *Hesper.*: *Thanaos juvenalis*; *Ctenuch.*: *Seepsis*.

Vernonia fasciculata (15:451-2).—Blooms July 1–October 1; 45 visitors observed, July 21–September 24; Mas, R.

Long-tongued Bees (20)—*Ap.*: *Apis*; *Bomb.*: *Bombias auricomus* ♀ ♀, *separatus* ♂, *Bombus americanorum* ♂ ♀, ab, *Psithyrus variabilis* ♂ ♀, fq; *Ceratin.*: *Ceratina* ♀, se; *Megachil.*: *Neotrypetes truncatus* ♀, se; *Sayapis sayi* ♂ ♀, *Xanthosarus* ♂ ♀, se; *Epeol.*: *Triepeolus concavus* ♂ ♀, ab, *nevadensis* ♂, fq, *remigatus* ♂ ♀; *Eucер.*: *Epimelissodes atripes* ♀, *obliqua* ♂ ♀, se, ab, *Melissodes agilis* ♂, *bimaculata* ♂, *nivea* ♂, fq, *vernoniae* ♂ ♀, se, ab, *oligolege*, *type*, *vernoniana* ♂ ♀, se, ab, *oligolege*, *type*; *Emphor.*: *Emphor* ♀.

Short-tongued Bees (6)—*Halict.*: *Agapostemon radiatus* ♂, *viridulus* ♂, *Chloralictus pilosus* ♀, *sc. pruinus* ♀, *sc. versatus* ♀, *c.*, *Odontalictus* ♀, *c.*

Diptera (3)—*Bombyli.*: *Exoprosopa fasciata* ab, *Systoechus*, *Systropus*.

Lepidoptera (16)—*Nymphal.*: *Anosia*, *Argynnis*; *Lycaen.*: *Uranotes*; *Papilion.*: *Callidryas*, *Euphroeades*, *Eurymus* ab, *Heralclides*, *Jasoniades*, *Papilio*, *Pieris*; *Hesper.*: *Epargyreus*, *Euphyes metacomet*, *Limochores manataaqua*, *taumas* fq, *Polites*; *Noctu.*: *Leucania*.

CONVOLVULACEAE

Convolvulus sepium (13:581).—Blooms May 27–September 21; 10 visitors observed, June 16–July 7; Ma, W.

Long-tongued Bees (8)—*Bomb.*: *Bombus americanorum* ♀ ♀, ab; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Aleidamea truncata* ♂; *Eucer.*: *Melissodes bimaculata* ♂, *Peponapis* ♀, *Tetralonia dilecta* ♀, fq; *Emphor.*: *Melitoma* ♂ ♀; *Anthophor.*: *Anthemoessa* ♀.

Short-tongued Bees (1)—*Halict.*: *Agapostemon viridulus* ♀.

Coleoptera (1)—*Scarabae.*: *Trichius piger* f, n.

Cuscuta cephalanthi.—Blooms September 15–October 3; one visitor observed, September 15; Mis, W.

Short-tongued Bees (1)—*Halict.*: *Curtisapis coriacea* ♀.

Cuscuta glomerata.—Blooms July 21–September 17; one visitor observed, September 8, 17; Mis, W.

Short-tongued Bees (1)—*Collet.*: *Colletes eulophi* ♀.

Ipomoea hederacea (int).—Blooms July 23–October 26; three visitors observed, July 29–September 21; Ma, R.

Long-tongued Bees (3)—*Bomb.*: *Bombus americanorum* ♂ ♀, fq, *consimilis* ♀; *Eucer.*: *Peponapis* ♂.

Ipomoea pandurata (13:581).—Blooms June 24–September 20; 18 visitors observed, July 11–September 9; Ma, W.

Long-tongued Bees (14)—*Ap.*: *Apis*; *Bomb.*: *Bombias auricomus* ♀, fq, *separatus* ♂ ♀, *Bombus americanorum* ♂ ♀ ♀, *sc.*, fq, *consimilis* ♀; *Epeol.*: *Triepeolus remigatus* ♀; *Eucer.*: *Cemolobus ipomoeae* ♂ ♀, *sc.*, ab, *type*, *oligolege*?, *Epimelissodes atripes* ♀, *obliqua* ♂, *Melissodes bimaculata* ♂ ♀, *sc.*, ab, *Peponapis* ♂ ♀, ab, *Xenoglossa* ♂ ♀, ab; *Emphor.* (♂ ♀): *Emphor* fq, *Melitoma* *sc.*, ab.

Lepidoptera (4)—*Papilion.*: *Euphroeades*, *Laertias*; *Hesper.*: *Atrytone zabulon*; *Sphing.*: *Sphinx*.

Ipomoea purpurea (int).—Blooms June 25–October 26; nine visitors observed, August 16–October 7; Ma, R.

Birds (1)—*Trochil.*: Trochilus.

Long-tongued Bees (6)—*Bomb.*: *Bombus americanorum* ♀, fq, consimilis ♀ ♀; *Eucer.*: *Melissodes bimaiculata* ♀, *Peponapis* ♂ ♀, *Xenoglossa* ♀; *Emphor.*: *Melitoma* ♂ ♀, se, ab.

Short-tongued Bees (1)—*Halict.*: *Agapostemon viridulus* ♀.

Lepidoptera (1)—*Sphing.*: *Deilephila*.

CORNACEAE

Cornus amomum.—Blooms May 29–July 26; 96 visitors observed, May 29–June 11; Mis, W.

Long-tongued Bees (9)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♀, se; *Ceratin.*: *Ceratina* ♂ ♀, se, fq; *Megachil.*: *Megachile brevis* ♀; *Xylocop.*: *Xylocopa* ♀, se; *Nomad.*: *Holonomada affabilis* ♂, fq; *Eucer.*: *Tetralonia rosae* ♂; *Anthophor.*: *Anthemoessa* ♂.

Short-tongued Bees (23)—*Halict.* (♀): *Agapostemon radiatus* se, fq, *viridulus* se, *Augochlora fervida*, *Chloralictus pilosus* se, *pruinus*, *tegularis*, *versatus* se, fq, *Curtisapis forbesii*, *Evylaeus pectoralis* se, *Halictus parallelus*, *Odontalictus* se, *Oxystoglossa confusa*, *similis* se; *Prosopid.*: *Prosopis illinoensis* ♀, *pygmaea* ♂; *Andren.*: *Andrena platyparia* ♂ ♀, se, *sayi* ♀, se, fq, *Opandrena cressonii* ♀, se, fq, *miserabilis* ♀, *Trachandrena claytoniae* ♀, *crataegi* ♀, *heraclei* ♀, se, fq, *hippotes* ♀.

Other Hymenoptera (15)—*Sphex.*: *Isodontia apicalis*, *Sphex nigricans*, *vulgaris*; *Philanth.*: *Cereceris finitima*; *Vesp.*: *Polistes variatus*; *Eumen.*: *Leionotus anormis*, *arvensis*, *foraminatus* fq, *illinoensis*, *leucomelas*, *ziziae*, *Zendalia zendaloides*; *Crabron.*: *Solenius*; *Oxybel.*: *Notoglossa americana*, *frontalis*.

Diptera (31)—*Syrph.*: *Allograpta*, *Chrysogaster nigripes*, *Eristalis dimidiatus*, *latifrons*, *transversus*, *Mallota cimbiciformis*, *Mesogramma marginata*, *Myiolepta nigra*, *Orthoneura nitida* in cop, *pictipennis*, *Sphaerophoria*, *Syritta*; *Bombyli.*: *Argyramoeba albofasciata* f; *Conop.*: *Zodion fulvifrons*; *Tachin.*: *Archytas analis*, *aterrima*, *Belvosia bifasciata*, *Blepharipeza*, *Linnaemyia*, *Phoranthia purpurascens*; *Sarcophag.*: *Calliphora erythrocephala*, *Helicobia helieis*, *Sarcophaga cimbeis*; *Musc.*: *Lucilia caesar*, *sericata*, *Pollenia*, *Pseudopyrellia*; *Anthomy.*: *Anthomyiella*, *Calythea*, *Phorbia acra* fq, *platura* fq.

Lepidoptera (16)—*Nymphal.*: *Argynnis*, *Basilarchia archippus*, *astyanax*, *Phyciodes*, *Vanessa atalanta*, *huntera*; *Lycæn.*: *Chrysophanus*, *Cyaniris*; *Papilion.*: *Heraclides*, *Jasoniades*, *Laertias*; *Hesperi.*: *Atrytone zabulon*, *Epargyreus*, *Limochores taumas*, *Polites*; *Ctenuch.*: *Scepsis*.

Coleoptera (2)—*Curculion.*: *Centrinus scutellum-album*; *Mordell.*: *Mordella marginata* in cop.

June 1, 1911, the following 34 species and 97 individuals were taken on the flowers:

Long-tongued Bees (4:21)—*Ap.*: *Apis* 4; *Bomb.*: *Bombus americanorum* 6; *Ceratin.*: *Ceratina* 10; *Xylocop.*: *Xylocopa* 1.

Short-tongued Bees (16:56)—*Halict.*: *Agapostemon radiatus* 4, *viridulus* 13, *Chloralictus pilosus* 2, *tegularis* 1, *versatus* 3, *Curtisapis forbesii* 1, *Evylaeus pectoralis* 3, *Halictus parallelus* 2, *Oxystoglossa confusa* 1, *similis* 2; *Prosopid.*: *Prosopis illinoensis* 1; *Andren.*: *Andrena platyparia* 4, *sayi* 7, *Opandrena cressonii* 2, *miserabilis* 3, *Trachandrena heraclei* 7.

Other Hymenoptera (2:5)—*Eumen.*: *Leionotus foraminatus* 1; *Oxybel.*: *Notoglossa americana* 4.

Diptera (6:7)—*Syrph.*: *Allograpta* 1, *Chrysogaster nigripes* 1, *Eristalis transversus* 2; *Bombyli.*: *Argyramoeba albofasciata* 1; *Sarcophag.*: *Sarcophaga cimbicis* 1; *Anthomy.*: *Phorbia platura* 1.

Lepidoptera (5:7)—*Nymphal.*: *Argynnis* 1; *Papilion.*: *Heralides* 1, *Jasoniades* 3, *Laertias* 1; *Hesper.*: *Epargyreus* 1.

Coleoptera (1:1)—*Mordell.*: *Mordella marginata* 1.

Cornus florida (10:232-3).—Blooms April 22–May 8; 29 visitors observed on April 23; Mis, W.

Long-tongued Bees (3)—*Bomb.*: *Bombias separatus* ♀; *Megachil.*: *Osmia pumila* ♀, se; *Nomad.*: *Nomada illinoensis* ♂.

Short-tongued Bees (15)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus obscurus* se, *pilosus* se, *sparsus* se, fq, *versatus*, *zephyrus*, *Curtisapis coriacea*, *Evylaeus foxii* se, *Oxystoglossa confusa* se, *pura* se, *Seladonia* se, fq; *Andren.*: *Andrena carlini* ♀, *Opandrena miserabilis* ♂ ♀, se, fq, *Trachandrena claytoniae* ♀, se, fq, *rugosa* ♂ ♀.

Other Hymenoptera (2)—*Vesp.*: *Polistes pallipes*; *Eumen.*: *Leionotus foraminatus*.

Diptera (7)—*Syrph.*: *Criorhina umbratilis*, *Mesogramma marginata*; *Empid.*: *Empis humilis* fq; *Bombyli.*: *Bombylius major* fq, *pulchellus*; *Lonchae.*: *Lonchaea aberrans*.

Lepidoptera (1)—*Hesper.*: *Thanaos juvenalis*.

Coleoptera (1)—*Cerambyc.*: *Molorehus*.

Cornus paniculata (10:233-5).—Blooms May 12–June 24; 82 visitors observed, May 12–June 8; Mis, W.

Long-tongued Bees (7)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombias auricomus* ♀, c, *Bombus americanorum* ♀, c; *Ceratin.*: *Ceratina* ♀, se; *Nomad.*: *Holonomada affabilis* ♀, *superba* ♀; *Eucer.*: *Tetralonia dilecta* ♂ ♀, se.

Short-tongued Bees (24)—*Halict.* (♀): *Agapostemon radiatus* se, *viridulus* se, *Chloralictus pilosus*, *sparsus* se, *tegularis* fq, *versatus* se, fq, *Evylaeus pectoralis* se, *Oxystoglossa confusa* se, *similis*; *Prosopid.*: *Prosopis crataegi* ♂, *eulophi* ♂, *pygmaea* ♂, *sayi* ♀, *ziziae* ♂; *Andren.*: *Andrena earlini* ♀, *corni* ♀, *type*, *paniculatae* ♀, se, *platyparia* ♂ ♀, se, ab, *sayi* ♀, se, *Opandrena cressonii* ♀, se, *Trachandrena claytoniae* ♀, se, fq, *forbesii* ♀, *hippotes* ♀, *rugosa* ♀, se.

Other Hymenoptera (13)—*Sphec.*: *Chalybion*, *Sceliphron*; *Eumen.*: *Ancistrocerus campestris*, *unifasciatus*, *Eumenes frater-nus*, *Leionotus foraminatus*, *ziziae*, *Monobia*; *Crabron.*: *Lindenius errans*, *Solenius*; *Oxybel.*: *Notoglossa americana*; *Pompil.*: *Ceropales fulvipes*; *Chalcid.*: *Smiera torvina*.

Diptera (32)—*Syrph.*: *Eristalis aeneus*, *dimidiatus*, *transversus*, *Mallota cimbiciformis*, *Orthoneura nitida*, *Pipiza pulchella*, *Syrphus americanus*, *Tropidia mamillata*; *Empid.*: *Empis distans*, *levicula*, *Parempis*; *Conop.*: *Oncomyia*; *Tachin.*: *Archytas analis* fq, *aterrima*, *Belvosia bifasciata*, *unifasciata*, *Chaetophleps*, *Euphorocera claripennis* fq, *Exorista confinis*, *Frontina frenchii*, *Paradidmya*, *Phorantha purpurascens*, *Spallanzania*; *Sarcophag.*: *Helicobia helieis*, *Sarcophaga bullata*; *Musc.*: *Graphomyia*, *Lucilia caesar*, *sericata*, *Morellia*; *Anthomy.*: *Anthomyiella*, *Phorbia aera*; *Ortal.*: *Camptoneura*.

Lepidoptera (2)—*Nymphal.*: *Vanessa atalanta*; *Papilion.*: *Iphiclides*.

Coleoptera (8)—*Cerambyc.*: *Strangalia*; *Lampyr.*: *Podabrus tomentosus* fq, *Telephorus flavipes* fq; *Mordell.*: *Mordella marginata* fq, *Pentaria*; *Scarabac.*: *Euphoria fulgida*, *Trichius affinis* in cop, *piger* fq.

CRUCIFERAE

Arabis dentata.—Blooms April 5–May 31; 48 species and 254 individuals observed, April 24–May 15; Mi, W.

Long-tongued Bees (12: 54)—*Ap.*: *Apis* se, 34; *Bomb.*: *Bombias separatus* ♀, 2, *Bombus impatiens* ♀, 3; *Ceratin.*: *Ceratina* ♂, 1, *Zaodontomerus* ♂, 2; *Megachil.*: *Osmia atriventris* ♀, 2, *pumila* ♀, 1; *Nomad.*: *Gnathias euneatus* ♂ ♀, 2, *ovatus* ♀, 2, *xanthoparius* ♂, 2, *Xanthidium luteolum* ♀, 1; *Eucer.*: *Tetralonia belfragei* ♂ ♀, 2.

Short-tongued Bees (25: 177)—*Halict.* (♀): *Agapostemon radiatus* 3, *Augochlora viridula* 25, *Chloralictus caeruleus* 1, *obscurus* 2, *sparsus* se, 7, *tegularis* se, 1, *versatus* 11, *zephyrus* 9, *Curtisapis coriacea* 7, *Evyleaus foxii* se, 27, *pectoralis* se, 7, *4-maculatus* 1, *Halictus lerouxii* 2, *Oxystoglossa confusa* 8, *pura* 12, *similis* se, 6,

Seladonia sc, 4; Sphecodini: Proteraner ♂, 6; *Prosopid.*: *Prosopis sayi* ♂, 1; *Andren.*: *Andrena carlini* ♀, 1, *geranii* ♂, 3, *nasonii* ♀, sc, 9, *Opandrena cressonii* ♂ ♀, sc, 10, *miserabilis* ♀, 1, *personata* ♂ ♀, 13.

Other Hymenoptera (2:2)—*Eumen.*: *Leionotus foraminatus* 1; *Sapyg.*: *Sapyga* 1.

Diptera (9:21)—*Syrph.*: *Mesogramma geminata* 4, *Syrphus americanus* f, 6, *ribesii* f, 5, *torvus* f, 1; *Empid.*: *Empis humilis* 1, *nuda* 1, *Pachymeria* 1; *Bombyli.*: *Bombylius major* 1; *Tachin.*: *Siphona* 1.

Arabis laevigata.—Blooms April 10–May 18; 13 species and 53 individuals observed, April 23, 27, May 5; Mi, W.

Long-tongued Bees (4:8)—*Ceratin.*: *Ceratina* ♀, 4, *Zaodontomerus* ♂, 2; *Megachil.*: *Osmia pumila* ♀, 1; *Nomad.*: *Gnathias ovatus* ♀, 1.

Short-tongued Bees (7:40, ♀)—*Halict.*: *Chloralictus obscurus* 1, *versatus* sc, 9, *Evylaeus 4-maculatus* 1, *Oxystoglossa confusa* sc, 8, *pura* 1; *Andren.*: *Andrena arabis* sc, 18, *type*, *nasonii* sc, 2.

Diptera (2:5)—*Syrph.*: *Allograpta* f, 1; *Tachin.*: *Siphona* 4.

Arabis virginica.—Blooms March 20–May 15; 11 visitors observed, April 20, May 3, 8; Mi, W.

Long-tongued Bees (1)—*Nomad.*: *Gnathias ovatus* ♀.

Short-tongued Bees (9)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus versatus*, *zephyrus*, *Halictus lerouxii*, *Oxystoglossa confusa*, *similis*, *Seladonia*; *Andren.*: *Opandrena cressonii* ♀; *miserabilis* ♂.

Diptera (1)—*Anthomy.*: *Anthomyiella*.

Capsella bursa-pastoris (int).—Blooms March 20–December 1; 60 visitors observed, April 16–June 1; Mi, W.

Long-tongued Bees (4)—*Ap.*: *Apis* fq; *Megachil.*: *Prochelostoma* ♂; *Nomad.*: *Nomada parva* ♀; *Eucer.*: *Tetralonia dilecta* ♂.

Short-tongued Bees (22)—*Halict.* (♀): *Chloralictus coreopsis* sc, *cressonii*, *sparsus* sc, ab, *tegularis* sc, *versatus* sc, *zephyrus* sc, *Curtisapis forbesii* sc, *Dialictus* sc, *Evylaeus foxii* sc, fq, *pectoralis* sc, *Halictus lerouxii* sc, *Odontalictus*, *Oxystoglossa similis* sc, fq, *Seladonia* sc; *Prosopid.*: *Prosopis pygmaea* ♂; *Andren.*: *Andrena arabis* ♀, sc, fq, *nasonii* ♀, sc, *Opandrena cressonii* ♂ ♀, sc, fq, *miserabilis* ♂, *personata* ♂ ♀, sc, fq, *Trachandrena claytoniae* ♂ ♀, sc, *forbesii* ♂.

Other Hymenoptera (1)—*Vesp.*: *Polistes pallipes*.

Diptera (27)—*Syrph.*: *Allograpta*, *Eristalis dimidiatus* sf, *meigenii* fq, *Helophilus latifrons*, *similis*, *Mallota eimbieiformis*, *Melanostoma mellinum*, *Mesogramma geminata*, *marginata*, *Sphaerophoria*, *Syritta* sf; *Bombyli.*: *Aldrichia* sf; *Conop.*: *Oncomyia*, *Zodion fulvifrons*; *Tachin.*: *Apinops*, *Gonia capitata*, *Gymnoprosope*, *Peleteria*, *Siphona* fq; *Sarcophag.*: *Cynomyia* fq, *Helicobia heliceis*, *Sarcophaga sinuata*; *Musc.*: *Lucilia caesar*, *sericata*, *sylvarum* fq; *Anthomy.*: *Phorbia aera*, *platura*.

Lepidoptera (6)—*Nymphal.*: *Charidryas*, *Phyciodes*; *Papilion.*: *Pontia*; *Hesperid.*: *Pholisora catullus*, *Polites*, *Thanaos martialis*.

The first 100 individuals taken on the flowers, May 11, 13, 15, 17, 1916, showed species and individuals as follows:

Short-tongued Bees (12:63)—*Halict.*: *Chloralictus coreopsis* 1, *sparsus* 26, *tegularis* 1, *versatus* 2, *zephyrus* 1, *Dialictus* 1, *Evy-laeus foxii* 3, *pectoralis* 9, *Oxystoglossa similis* 2; *Andren.*: *Andrena arabis* 7, *Opandrena cressonii* 1, *personata* 9.

Diptera (13:37)—*Syrph.*: *Eristalis meigenii* 5, *Mallota eimbieiformis* 1, *Mesogramma geminata* 1, *marginata* 4, *Syritta* 4; *Bombyli.*: *Aldrichia* 1; *Tachin.*: *Gymnoprosope* 1, *Siphona* 6; *Musc.*: *Lucilia caesar* 2, *sericata* 1, *sylvarum* 7; *Anthomy.*: *Phorbia aera* 3, *platura* 1.

Cardamine bulbosa (2:298-9).—Blooms April 22-May 30; 49 visitors observed, May 2-21; Mi, W.

Long-tongued Bees (14)—*Bomb.*: *Bombias auricomus* ♀; *Ceratin.*: *Ceratina* ♂ ♀, *se*, fq, *Zaodontomerus* ♂; *Megachil.*: *Aleidamea simplex* ♂, *Ceratostmia* ♂ ♀, *Diceratostmia* ♀, *se*, *Gnathostmia* ♀, *Osmia atriventris* ♂ ♀, fq, *collinsiae* ♂, *cordata* ♂, *ab*, *type*, *pumila* ♂ ♀, *se*, *ab*; *Nomad.*: *Holonomada superba* ♂ ♀, *Nomada denticulata* ♂; *Eucer.*: *Tetralonia dilecta* ♂ ♀.

Short-tongued Bees (14)—*Halict.* (♀): *Chloralictus pilosus* *se*, *pruinus* *se*, fq, *versatus* *se*, fq, *Evy-laeus pectoralis* *se*, fq, *Odon-talictus*, *Oxystoglossa confusa*, *similis*, *Seladonia* fq; *Prosopid.*: *Prosopis pygmaea* ♂; *Andren.*: *Andrena arabis* ♀, *se*, *ab*, *sayi* ♀, *Iomelissa* ♀, *Opandrena miserabilis* ♀, *personata* ♂.

Diptera (13)—*Stratiomy.*: *Nemotelus*; *Syrph.*: *Mesogramma marginata*, *Orthonera pictipennis*, *Sphaerophoria*; *Empid.*: *Empis avida*, *nuda*, *otiosa*; *Bombyli.*: *Bombylius atriceps* fq, *major*; *Conop.*: *Myopa vesiculosa*, *Zodion fulvifrons*; *Musc.*: *Lucilia caesar*; *Anthomy.*: *Phorbia aera*.

Lepidoptera (8)—*Nymphal.*: *Phyciodes*, *Vanessa atalanta*; *Lycan.*: *Everes*; *Papilion.*: *Eurymus*, *Pieris*, *Xanthidia*; *Hesperid.*: *Epargyreus*, *Pholisora catullus*.

Dentaria laciniata.—Blooms April 2–May 2; 39 visitors observed, April 2–28; Mi, W.

Long-tongued Bees (19)—*Ap.*: *Apis* sc, fq.; *Bomb.* (♀): *Bombus separatus*, *Bombus americanorum*, *impatiens*, *ridingsii*; *Ceratin.*: *Ceratina* ♂; *Megachil.*: *Centrosmia* ♂ ♀, *Ceratosmia* ♂, *Osmia pumila* ♂; *Nomad.*: *Gnathias cuneatus* ♂, *ovatus* ♂, *Nomada cressonii* ♂, *illinoensis* ♂, *sayi* ♂ ♀, fq, *Phor* ♂, *Xanthidium dentariae* ♂, fq, *type*, *luteoloides* ♂, fq, *luteolum* ♂, fq; *Eucer.*: *Tetralonia belfragei* ♂ ♀.

Short-tongued Bees (14)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus pilosus*, *sparsus* sc, *versatus*, *Evylaeus foxii*, *Halictus lerouxii* sc, *Odontalictus*; *Andren.*: *Andrena carlini* ♂ ♀, fq, *pruni* ♂, *sayi* ♂ ♀, fq, *tridens* ♂, *Opandrena cressonii* ♀, *miserabilis* ♂ ♀, *Trachandrena rugosa* ♂ ♀.

Diptera (3)—*Syrph.*: *Sphaerophoria* f, n; *Empid.*: *Empis humilis*; *Bombyli.*: *Bombylius major*.

Lepidoptera (2)—*Lycaen.*: *Everes*; *Papilion.*: *Iphiclides*.

Coleoptera (1)—*Nitidul.*: *Cercus* f, fq, n.

Lepidium virginicum.—Blooms April 12–November 7; 45 visitors observed, May 17–June 9; Mi, W.

Long-tongued Bees (2)—*Ceratin.*: *Ceratina* ♂ ♀, fq, *Zaodontomerus* ♂, fq.

Short-tongued Bees (15)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus coreopsis*, *sparsus* sc, *tegularis* sc, *versatus*, *Evylaeus arcuatus*, *pectoralis* sc, ab, *Odontalictus*, *Oxystoglossa similis* sc, fq, *Seladonia*; *Prosopid.*: *Prosopis pygmaea* ♂ ♀, *sayi* ♀, *ziziae* ♂ ♀, fq; *Collet.*: *Colletes eulophi* ♂; *Andren.*: *Opandrena personata* ♀, sc.

Other Hymenoptera (6)—*Eumen.*: *Leionotus clypeatus*, *histrionalis*, *illinoensis*; *Oxybel.*: *Notoglossa frontalis*; *Pompil.*: *Anoplius illinoensis*, *Psammochares tenebrosus*.

Diptera (21)—*Stratiomy.*: *Nemotelus*; *Syrph.*: *Eristalis dimidiatus*, *Helophilus similis*, *Mesogramma marginata* ab, *Paragus bicolor*, *tibialis*, *Syrpitta*; *Conop.*: *Zodion fulvifrons* fq; *Tachin.*: *Apinops*, *Cistogaster occidua*, *pallasii*, *Gymnosoma*, *Leucostoma atra*, *Ocyptera tenuis*, *Phoranthia purpurascens*; *Sarcophag.*: *Helicobia helicis*; *Musc.*: *Lucilia caesar*, *Pseudopyrellia*; *Anthomy.*: *Limnophora*, *Phorbia acra* ab, *platura* ab.

Lepidoptera (1)—*Papilion.*: *Pontia*.

May 20, June 1, 1909, 166 individuals belonging to 34 species were taken on the flowers:

Long-tongued Bees (2: 11)—*Ceratin.*: *Ceratina* 5, *Zaodontomerus* 6.

Short-tongued Bees (12: 35)—*Halict.*: *Agapostemon radiatus* 1, *Chloralictus coreopsis* 1, *tegularis* 1, *versatus* 1, *Evylaeus areuatus* 1, *pectoralis* 6, *Oxystoglossa similis* 6, *Seladonia* 4; *Prosopid.*: *Prosopis pygmaea* 4, *sayi* 2, *ziziae* 5; *Andren.*: *Opandrena personata* 3.

Other Hymenoptera (4: 6)—*Eumen.*: *Leionotus clypeatus* 1, *histrionalis* 3; *Pompil.*: *Anoplius illinoensis* 1, *Psammochares tenebrosus* 1.

Diptera (16: 114)—*Stratiomy.*: *Nemotelus* 1; *Syrph.*: *Eristalis dimidiatus* 1, *Helophilus, similis* 1, *Mesogramma marginata* 33, *Paragus bicolor* 1, *tibialis* 1; *Conop.*: *Zodion fulvifrons* 6; *Tachin.*: *Apinops* 1, *Cistogaster occidua* 1, *pallasii* 1, *Ocyptera tenuis* 1; *Sarcophag.*: *Helicobia helicis* 1; *Musc.*: *Pseudopyrellia* 1; *Anthomy.*: *Limnophora* 1, *Phorbia acra* 52, *platura* 12.

Radicula obtusa.—Twenty-three visitors observed, May 1, 3, 8; Mi, Y.

Long-tongued Bees (3)—*Ap.*: *Apis* fq; *Megachil.*: *Alcidamea simplex* ♀; *Nomad.*: *Nomada illinoensis* ♀.

Short-tongued Bees (11, ♀)—*Halict.*: *Chloralictus albipennis, pilosus, versatus* se, fq, *zephyrus*, *Evylaeus areuatus*, *Odontalictus, Oxystoglossa confusa, similis* fq, *Seladonia* fq; *Andren.*: *Andrena erythrogastra, Opandrena cressonii*.

Other Hymenoptera (3)—*Crabron.*: *Clytochrysus*; *Tiphi.*: *Tiphia clypeata*; *Ichneumon.*: *Metopius terminalis*.

Diptera (6)—*Syrph.*: *Sphaerophoria, Syrphus americanus*; *Tachin.*: *Peleteria*; *Sarcophag.*: *Sarcophaga sinuata*; *Musc.*: *Lucilia sylvarum*; *Anthomy.*: *Limnophora*.

Radicula palustris.—Blooms May 6–October 16; 6 species and 22 individuals observed, May 31, June 3; Mi, Y.

Short-tongued Bees (4: 18, ♀)—*Halict.*: *Chloralictus tegularis* se, 2, *versatus* se, 9, *zephyrus* 2, *Evylaeus pectoralis* 5.

Diptera (2: 4)—*Syrph.*: *Mesogramma marginata* sf, 3; *Anthomy.*: *Phorbia platura* 1.

Sisymbrium canescens.—Blooms April 13–June 8; 13 visitors observed, May 2, 3; Mi, Y.

Short-tongued Bees (11)—*Halict.* (♀): *Chloralictus pilosus* se, fq, *pruinus* se, *sparsus, tegularis, versatus* se, fq, *Evylaeus pectoralis, Oxystoglossa similis* se, fq, *Seladonia* se; *Andren.*: *Andrena nasonii* ♂, *Opandrena cressonii* ♀, se, *personata* ♂ ♀, se.

Diptera (2)—*Tachin.*: *Gymnosoma*; *Anthomy.*: *Phorbia acra*.

CUCURBITACEAE

Cucurbita melopepo? (cult).—One visitor observed, July 11, September 21; Ma, Y.

Long-tongued Bees (1)—*Eucer.*: *Xenoglossa* ♂.

Cucurbita pepo (cult).—Blooms July 3–October 4; 6 visitors observed, July 3–September 21; Ma, Y.

Long-tongued Bees (6)—*Ap.*: *Apis* sc, fq; *Bomb.*: *Bombus americanorum* ♂ ♀, sc, fq, *impatiens* ♀; *Eucer.*: *Melissodes bimaculata* ♀, *Peponapis* ♂ ♀, sc, ab, *oligolege*, *Xenoglossa* ♂ ♀, sc, ab.

Echinocystis lobata.—Blooms July 26–September 27; 21 visitors observed on August 1: Pol, W.

Long-tongued Bees (2)—*Ap.*: *Apis*; *Eucer.*: *Melissodes bimaculata* ♀.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, sc.

Other Hymenoptera (3)—*Scoli.*: *Elis 5-cincta*, *Scolia bicincta*; *Larr.*: *Tachytes elongatus*.

Diptera (15)—*Syrph.*: *Allograpta* ab, *Mesogramma geminata*, *marginata*, *Milesia*, *Syritta* fq, *Syrphus americanus*, *ribesii*; *Sarcophag.*: *Sarcophaga assidua*; *Musc.*: *Lucilia caesar*, *sericata*, *Musca*, *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Ophyra*, *Phorbia acra*.

Sicyos angulatus.—Blooms August 18–September 25; 17 visitors observed, August 21–31; Pol, Y.

Long-tongued Bees (3)—*Ap.*: *Apis* fq; *Bomb.*: *Bombus impatiens* ♀; *Eucer.*: *Melissodes bimaculata* ♀, sc.

Other Hymenoptera (9)—*Sphec.*: *Ammobia ichneumonea*, *Chalybion*, *Sceliphron*; *Bembic.*: *Sphecius*; *Vesp.*: *Polistes annularis*, *pallipes* fq, *rubiginosus*, *Vespula germanica*, *maculata*.

Diptera (5)—*Syrph.*: *Mesogramma marginata*, *polita*; *Tachin.*: *Winthemia*; *Musc.*: *Lucilia caesar*, *Musca*.

DIPSACEAE

Dipsacus sylvestris (int).—Blooms July 1–August 29; 10 visitors observed on July 3, 28; Mas, R.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♀; *Eucer.*: *Melissodes bimaculata* ♂.

Short-tongued Bees (2, ♀)—*Halict.*: *Agapostemon radiatus* sc, *viridulus*.

Diptera (1)—*Bombyli.*: *Exoprosopa fasciata* fq.

Lepidoptera (5)—*Nymphal.*: *Anosia*, *Vanessa huntera*; *Papilion.*: *Jasoniades*, *Pontia*; *Hesper.*: *Thanaos martialis*.

EBENACEAE

Diospyros virginiana.—Blooms May 27–June 25; 29 species and 279 individuals observed, May 30–June 25; Ma, Y.

On staminate flowers (17: 127):—

Long-tongued Bees (4: 8)—*Bomb.*: *Bombias separatus* ♀, se, 2, *Bombus impatiens* ♀, se, 4; *Ceratin.*: *Ceratina* ♀, se, 1, n; *Nomad.*: *Holonomada affabilis* ♀, 1.

Short-tongued Bees (10: 109, n)—*Halict.*: *Agapostemon radiatus* ♀, se, 1, *Augochlora fervida* ♀, se, 3, *viridula* ♂ ♀, se, 5, *Chloralictus sparsus* ♀, e, 2, *versatus* ♀, e, 7, *zephyrus* ♀, se, 1, *Curtisapis coriacea* ♀, se, 3, *forbesii* ♀, e, 1, *fuscipennis* ♀, se, 85, *Oxystoglossa similis* ♀, e, 1.

Diptera (3: 10, f, n)—*Syrph.*: *Allograpta* 1, *Syrphus americanus* 1, *ribesii* 8.

On staminate and pistillate flowers (9: 146):—

Long-tongued Bees (6: 138)—*Ap.*: *Apis* se, 78; *Bomb.*: *Bombus americanorum* ♀, 6; *Megachil.*: *Osmia pumila* ♀, 2, *Megachile mendica* ♂ ♀, 6; *Eucer.*: *Tetralonia rosae* ♂ ♀, se, 31; *Anthophor.*: *Anthemoessa* ♂ ♀, se, 15.

Short-tongued Bees (2: 6, ♀, se)—*Halict.*: *Agapostemon viridulus* 4, *Oxystoglossa confusa* 2.

Lepidoptera (1: 2)—*Hesper.*: *Euphyes verna* 2.

On pistillate flowers (3: 6):—

Long-tongued Bees (1: 2)—*Bomb.*: *Bombias auricomus* ♀, 2.

Short-tongued Bees (1: 1)—*Halict.*: *Oxystoglossa pura* ♀, 1, n.

Lepidoptera (1: 3)—*Hesper.*: *Limochores manataaqua* 3, n.

EUPHORBIACEAE

Euphorbia corollata (9: 74–5).—Blooms May 24–September 27; 52 visitors observed, July 6–August 22; Pol, W.

Short-tongued Bees (7)—*Halict.* (♀): *Chloralictus pilosus* se, *sparsus*, *versatus* se, fq, *Seladonia*; *Sphæcodini*: *Sphæcodes arvensis* ♂ ♀, fq, in cop; *Prosopid.*: *Prosopis pygmaea* ♀, *ziziae* ♂ ♀.

Other Hymenoptera (22)—*Sphæc.*: *Priononyx atrata*, *Seeliphron*; *Bembic.*: *Megastizus*; *Scoli.*: *Elis 5-cincta* fq; *Philanth.*: *Eucereeris*; *Vesp.*: *Polistes pallipes*, *variatus*; *Eumen.*: *Ancistrocerus campestris*, *Leionotus dorsalis*; *Crabron.*: *Anaerabro*, *Lindenius errans*, *Protothyreopus bigeminus*; *Oxybel.*: *Oxybelus packardii*, *4-notatus*; *Pemphredon.*: *Mimesa*; *Larr.*: *Larropsis*; *Pompil.*: *Priocnemoides fulvicornis*, *Psammachares relativus*; *Chrysid.*: *Hedychrum wiltii*, *Holopyga*; *Chalcid.*: *Leucospis*; *Ichneumon.*: *Ceratosoma*.

Diptera (21)—*Syrph.*: *Allograpta* ab, *Mesogramma polita*, *Orthoneura nitida*, *Paragus bicolor* fq, *tibialis*, *Pipiza pulchella*, *Sphaerophoria* ab, *Syritta* ab; *Bombyli.*: *Anthrax alternata*, *Exoprosopa fasciata*, *fascipennis*; *Tachin.*: *Alophora aeneoventris*, *Cistogaster pallasii* fq, *Cyphocera*, *Pachyophthalmus signatus*, *Phorantha purpurascens*, *Senotainia trilineata* fq, *Trichopoda pennipes*; *Sarcophag.*: *Helicobia heliceis*; *Musc.*: *Morellia*, *Pseudopyrellia*.

Lepidoptera (1)—*Papilion.*: *Pontia*.

Hemiptera (1)—*Core.*: *Chariesterus*.

Euphorbia preslii.—Blooms June 30–October 26; 7 visitors observed, August 11, 24; Mi, W.

Short-tongued Bees (1)—*Halict.*: *Chloralictus tegularis* ♀, sc.

Other Hymenoptera (3)—*Oxybel.*: *Notoglossa frontalis*; *Philanth.*: *Cerceris finitima*; *Chrysid.*: *Hedychrum parvum*.

Diptera (3)—*Syrph.*: *Mesogramma marginata*, *Syritta*, *Bombyli.*: *Sparnopolius*.

FUMARIACEAE

Dicentra cucullaria (2:125–6).—Blooms March 21–May 5; 23 visitors observed, April 9–30; Ma, W.

Long-tongued Bees (14)—*Ap.*: *Apis* c, ab, n; *Bomb.* (♀): *Bombias auricomus* fq, *separatus* fq, *Bombus americanorum* fq, *consimilis*, *impatiens*, *ridingsii*; *Megachil.*: *Centrosmia* ♂ ♀, fq, *Ceratosmia* ♂ ♀, *Osmia collinsiae* ♂; *Eucer.*: *Tetralonia belfragei* ♂ ♀, fq, *dubitata* ♂; *Anthophor.*: *Anthophora* ♂, *Emphoropsis* ♂.

Short-tongued Bees (1)—*Andren.*: *Andrena carlini* ♂ ♀.

Diptera (1)—*Bombyli.*: *Bombylius major* fq.

Lepidoptera (6, n)—*Nymphal.*: *Anosia*, *Vanessa atalanta*; *Papilion.*: *Iphielides*, *Jasoniades*, *Pieris*; *Hesper.*: *Thanaos martialis*.

GENTIANACEAE

Frasera carolinensis (6:48, 8:142).—Blooms May 24–June 22; 7 visitors observed, May 30–June 13; Ma, Y.

Long-tongued Bees (4)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias separatus* ♀ ♀, ab; *Bombus americanorum* ♀; *Anthophor.*: *Anthemoessa* ♂ ♀, fq.

Short-tongued Bees (1)—*Halict.*: *Curtisapis coriacea* ♀, sc, n.

Other Hymenoptera (1)—*Vesp.*: *Polistes pallipes*.

Lepidoptera (1)—*Hesper.*: *Thorbyes pylades* n.

Gentiana andrewsii (13:577–8).—Blooms September 9–October 20; 2 visitors observed, September 23, 29; Ma, R.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♂ ♀ ♀, ab.

Coleoptera (1)—*Melo.*: *Epicauta pennsylvanica* gn, n.

Gentiana puberula (8: 139–40).—One visitor observed, September 29; Ma, R.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♂ ♀.

Sabatia angularis.—Blooms July 11–September 9; 3 visitors observed, August 2, 5; Ma, R.

Long-tongued Bees (2)—*Ceratin.*: *Ceratina* ♀, se; *Megachil.*: *Megachile brevis* ♀.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa similis* ♀, c, n.

GERANIACEAE

Geranium carolinianum (6: 272).—Blooms May 21–July 13; 13 visitors observed, May 21, June 10; Mi, R.

Long-tongued Bees (3)—*Megachil.*: *Aleidamea simplex* ♂ ♀, fq, *Diceratomia* ♀; *Eucer.*: *Tetralonia dilecta* ♀.

Short-tongued Bees (7)—*Halict.* (♀, se): *Agapostemon radiatus*, *Chloralictus sparsus*, *tegularis*, *Evylaeus pectoralis*, fq, *Oxystoglossa confusa* fq; *Prosopid.*: *Prosopis ziziae* ♀; *Panurg.*: *Heterosarus* ♀, se.

Other Hymenoptera (1)—*Eumen.*: *Leionotus illinoensis*.

Diptera (2)—*Syrph.*: *Mesogramma marginata* fq; *Tachin.*: *Phoranthia purpurascens*.

Geranium maculatum (2: 299–300).—Blooms April 13–June 4; 44 visitors, April 23–May 24; Ma, R.

Long-tongued Bees (24)—*Ap.*: *Apis*; *Bomb.* (♀): *Bombias separatus*, *Bombus americanorum*, *consimilis*, *impatiens*, *ridingsii*, *Psithyrus variabilis*; *Ceratin.*: *Ceratina* ♂ ♀; *Stelid.*: *Microstelis* ♀, n; *Megachil.*: *Trypetini*: *Prochelostoma* ♂ ♀, n; *Osmiini*: *Aleidamea simplex* ♂, *Ceratomia* ♀, *Monilosmia* ♂ ♀, *Osmia atriventris* ♂, *pumila* ♀; *Coelioxyni*: *Coelioxys sayi* ♂ ♀; *Nomad.*: *Centrias americanus* ♂, *Holonomada superba* ♂ ♀, *Nomada denticulata* ♀, *Xanthidium luteolum* ♀; *Eucer.*: *Tetralonia belfragei* ♂, *dilecta* ♂ ♀, fq, *rosae* ♂; *Anthophor.*: *Anthophora* ♀.

Short-tongued Bees (11)—*Halict.* (♀): *Agapostemon viridulus*, *Augochlora viridula*, *Chloralictus pilosus* n, *versatus* n, *Curtisapis coriacea*, *Halictus lerouxii* se, *Oxystoglossa similis* n; *Andren.*: *Andrena geranii* ♂ ♀, fq, *type*, *illinoensis* ♂, n, *Ptilandrena g. maculati* ♂ ♀, se, ab, *oligolege*, *type*, *polemonii* ♂ ♀, fq, n.

Diptera (5, n)—*Syrph.*: *Helophilus latifrons* f; *Empid.*: *Empis distans* fq, *humilis*, *otiosa*, *Pachymeria* ab.

Lepidoptera (4)—*Lycaen.*: *Everes*; *Papilion.*: *Eurymus*; *Hesper.*: *Thanaos martialis*; *Sphing.*: *Hemaris thysbe*.

GRAMINEAE (anemophilous)

Panicum virgatum.—One visitor observed, July 30.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, c, 5.

Poa pratensis.—One visitor observed, June 9.

Short-tongued Bees (1)—*Halict.*: *Chloralictus sparsus* ♀, c, 4.

Zea mays.—One visitor observed, September 1.

Long-tongued Bees (1)—*Ap.*: *Apis* c, 2.

HYDROPHYLLACEAE

Ellisia nyctelaea (6:49–50).—Blooms April 20–June 21; the first 100 individuals, representing 26 species, were taken on May 8–23; Mi, W.

Long-tongued Bees (8:30)—*Bomb.*: *Bombus consimilis* ♀, 1; *Ceratin.*: *Ceratina* ♂ ♀, 9, *Zaodontomerus* ♂, 8; *Megachil.*: *Prochelostoma* ♂ ♀, 5, *Osmia atriventris* ♂ ♀, sc, 2, *pumila* ♂, 1; *Nomad.*: *Gnathias cuneatus* ♀, 2; *Eucer.*: *Tetralonia dilecta* ♂, 2.

Short-tongued Bees (11:55)—*Halict.* (♀): *Chloralictus obscurus* 7, *sparsus* sc, 4, *tegularis* 2, *versatus* 2, *zephyrus* 1, *Evylaeus pectoralis* 1, *4-maculatus* 10, *Oxystoglossa confusa* 8, *Seladonia* sc, 7; *Andren.*: *Iomelissa* ♀, 1, *Opandrena personata* ♂ ♀, sc, 12.

Diptera (7:15)—*Syrph.*: *Mesogramma geminata* f, 1, *marginata* f, 4, *Pipiza femoralis* f, 1, *Rhingia* 2; *Bombyli.*: *Bombylius major* 2, *pulchellus* 1; *Tachin.*: *Siphona* 4.

Hydrophyllum appendiculatum (13:579–80).—Blooms May 2–June 19; 46 visitors observed, May 3–June 19; Ma, R.

Long-tongued Bees (20)—*Ap.*: *Apis* sc, ab; *Bomb.*: *Bombias auricomus* ♀, *separatus* ♀ ♂, sc, ab, *Bombus americanorum* ♀, ab, *consimilis* ♀, *impatiens* ♀ ♂, fq, *ridingsii* ♀ ♂, sc, ab, *Psithyrus variabilis* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Trypetini*: *Prochelostoma* ♀, sc; *Osmiini*: *Alcidamea simplex* ♂, *Ceratosmia* ♀, ab, *Diceratosmia* ♀, sc, *Hoplitis* ♂ ♀, sc, *Osmia pumila* ♀, sc, ab; *Megachilini*: *Megachile brevis* ♂; *Nomad.*: *Holonomada affabilis* ♀; *Eucer.*: *Tetralonia belfragei* ♂ ♀, sc, ab, *dilecta* ♂, fq, *rosae* ♂ ♀, fq.

Short-tongued Bees (10)—*Halict.* (♀): *Agapostemon radiatus* sc, *Augochlora viridula*, *Chloralictus pilosus*, *versatus*, *Curtisapis coriacea* sc, ab, *Evylaeus pectoralis*, *4-maculatus*, *Oxystoglossa confusa* sc, ab, *Andren.*: *Andrena carlini* ♀, *geranii* ♂ ♀, sc, ab.

Other Hymenoptera (2)—*Eumen.*: *Ancistrocerus tigris*, *Leionotus foraminatus*.

Diptera (10)—*Syrph.*: *Criorhina intersistens*, *Eristalis flavipes*, *Rhingia* sf, ab, *Sphegina rufiventris* f, n, *Xylota chalybea*; *Empid.*: *Empis loripedis*, *nuda* ab; *Bombyli.*: *Aldrichia* f, n; *Conop.*: *Stylogaster biannulata*; *Anthomy.*: *Hylemyia inornata*.

Lepidoptera (4)—*Nymphal.*: *Charidryas*; *Hesperi.*: *Amblyscirtes*, *Atrytone zabulon*, *Pholisora hayhurstii*.

May 18, 1909, the following 7 species and 22 individuals were taken on the flowers:

Long-tongued Bees (7:22)—*Bomb.*: *Bombias auricomus* 1, *separatus* 8, *Bombus americanorum* 2, *consimilis* 1, *impatiens* 2; *Eucer.*: *Tetralonia belfragei* 4, *dilecta* 4.

Hydrophyllum virginianum (13:579).—Blooms May 6–June 1; 19 visitors observed May 8–27; Ma, W.

Long-tongued Bees (12)—*Bomb.*: *Bombias separatus* ♀, ab, *Bombus americanorum* ♀ ♂, ab, *consimilis* ♀, fq, *impatiens* ♀, fq, *ridingsii* ♀ ♂, ab, *Psithyrus variabilis* ♀; *Megachil.*: *Ceratostmia* ♀, se; *Nomad.*: *Gnathias ovatus* ♀, fq; *xanthoparius* ♂; *Eucer.*: *Tetralonia belfragei* ♀, se, *dilecta* ♂, fq; *Anthophor.*: *Anthemoessa* ♂ ♀.

Short-tongued Bees (3)—*Halict.* (♀): *Curtisapis coriacea* se, *Oxystoglossa confusa* e, n; *Andren.*: *Andrena geranii* ♂ ♀, se, fq.

Other Hymenoptera (2)—*Eumen.*: *Ancistrocerus tigris*, sucking at holes made by *Leionotus*, *Leionotus foraminatus*, perforating.

Diptera (2)—*Syrph.*: *Rhingia* f, n; *Bombyli.*: *Bombylius atriceps*.

May 18, 1909, the following 6 species and 46 individuals were taken on the flowers:

Long-tongued Bees (6:46)—*Bomb.*: *Bombias separatus* 28, *Bombus americanorum* 5, *consimilis* 2, *impatiens* 2, *ridingsii* 2; *Eucer.*: *Tetralonia dilecta* 7.

HYPERICACEAE.

Hypericum ascyron.—Blooms July 3–August 7; 2 visitors observed, July 5; Ma, Y.

Long-tongued Bees (2, ♂, e)—*Bomb.*: *Bombus americanorum* 4, *consimilis* 4.

Hypericum cistifolium (7:109).—Blooms May 29–September 7; 5 species and 17 individuals observed, June 21–July 15; Ma, Y.

Long-tongued Bees (4:15, e)—*Bomb.*: *Bombias auricomus* ♂, 1, *separatus* ♀ ♂, 8, *Bombus americanorum* ♀ ♂, 5; *Megachil.*: *Chelostomoides* ♀, 1.

Short-tongued Bees (1: 2)—*Halict.*: *Agapostemon viridulus* ♀, c, 2.

Hypericum punctatum.—Blooms June 26–September 7; 3 visitors observed, June 29, July 15, 30; Mi, Y.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀, c.

Short-tongued Bees (2, ♀, c)—*Halict.*: *Chloralictus pilosus*, *versatus*.

IRIDACEAE

Iris hexagona.—Blooms June 8–20; 2 visitors observed, June 10; Ma, R.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♀, 1; *Anthophor.*: *Anthemoessa* ♂, 1.

Iris versicolor (9: 80).—Blooms May 17–June 14; 10 visitors observed, May 20–June 5; Ma, R.

Long-tongued Bees (5)—*Bomb.* (♀): *Bombias auricomus*, *separatus*, *Bombus americanorum* fq; *Eucer.*: *Tetralonia dilecta* ♂ ♀, se, ab, *rosae* ♂.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, c, n.

Lepidoptera (3, n)—*Lycaen.*: *Chrysophanus*; *Hesperi.*: *Limochores taumas*, *Polites*.

Coleoptera (1)—*Scarabae.*: *Trichius piger* n.

Sisyrinchium angustifolium.—Blooms April 18–June 6; 15 visitors observed, May 10–23; Mi, W.

Long-tongued Bees (4)—*Bomb.*: *Bombias auricomus* ♀, *separatus* ♀; *Megachil.*: *Osmia pumila* ♀; *Nomad.*: *Holonomada superba* ♂.

Short-tongued Bees (7, ♀)—*Halict.*: *Chloralictus pilosus* se, *pruinus*, *versatus* se, ab, *Oxystoglossa confusa* se, ab, *similis*, *Selandonia* se, fq; *Andren.*: *Opandrena cressonii* se.

Diptera (4)—*Syrph.*: *Helophilus latifrons*, *Mesogramma marginata*, *Sphaerophoria*; *Bombyli.*: *Bombylius atriceps*.

Sisyrinchium gramineum.—Blooms May 11–July 1; 1 visitor observed, May 28; Mi, R.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa similis* ♀, se.

LABIATAE

Agastache nepetoides (14: 115–6).—Blooms July 24–September 28; 15 visitors observed, August 2–September 2; Mas, Y.

Long-tongued Bees (6)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias separatus* ♂ ♀, se, fq, *Bombus americanorum* ♂ ♀, se, ab, *consimilis* ♂, fq, *impatiens* ♀, se, ab; *Eucer.*: *Melissodes bimaculata* ♂ ♀.

Short-tongued Bees (3, n)—*Halict.* (♀): *Chloralictus sparsus* c, ab, *versatus* c, *Oxystoglossa pura*.

Other Hymenoptera (1)—*Sphec.*: *Sphex nigricans*.

Diptera (3)—*Syrph.* (f, n): *Mesogramma geminata*, *Syritta*; *Bombyli.*: *Exoprosopa fasciata*.

Lepidoptera (2)—*Nymphal.*: *Anosia*; *Papilion.*: *Pieris*.

Agastache scrophulariaefolia (14: 116).—Blooms August 7–September 28; 5 visitors observed, August 31, September 1; Mas, R.

Long-tongued Bees (4)—*Ap.*: *Apis* fq; *Bomb.*: *Bombias auricomus* ♀, c, *Bombus americanorum* ♂ ♀, se, fq; *Megachil.*: *Megachile mendica* ♀.

Diptera (1)—*Bombyli.*: *Exoprosopa fasciata* fq.

Blephilia ciliata (14: 113–4).—Blooms May 15–July 4; 76 visitors observed, June 1–July 5; Mas, R.

Long-tongued Bees (25)—*Ap.*: *Apis* ab; *Bomb.* (♀): *Bombias auricomus* se, *separatus*, *Bombus americanorum* se, fq, *consimilis*, *impatiens*, *Psithyrus variabilis*; *Ceratin.*: *Ceratina* ♀, se, ab; *Megachil.*: *Trypetini.*: *Neotrypetes barbatus* ♀, se, fq, *truncatus* ♀, se, ab; *Osmiini.*: *Alcidamea simplex* ♀, se, *Diceratosmia* ♀, *Hoplitis* ♂, *Osmia distincta* ♀; *Megachilini.*: *Cyphopyga* ♂, fq, *Megachile brevis* ♂ ♀, se, *mendica* ♂ ♀, se, fq, *petulans* ♀, se, *Sayapis pugnata* ♂ ♀, *Xanthosarus* ♂ ♀; *Coelioxyini.*: *Coelioxys sayi* ♂; *Eucer.*: *Tetralonia dilecta* ♂ ♀, se, *rosae* ♂; *Anthophor.*: *Anthemoessa* ♂, *Clisodon* ♀, se.

Short-tongued Bees (17)—*Halict.* (♀): *Agapostemon viridulus* se, ab, *Augochlora fervida* c, *Chloralictus pilosus* se, *sparsus* se, *versatus* se, ab, *zephyrus*, *Curtisapis coriacea* c, *Evelaenus pectoralis*, *Halictus parallelus* se, *Odontalictus*, *Oxystoglossa similis* se, fq, *Seladonia* se; *Prosopid.* (♀, f, n): *Prosopis pygmaea*, *ziziae*; *Andren.*: *Andrena geranii* ♀, se, *Trachandrena crataegi* ♀; *Panurg.*: *Calliopsis andreniformis* ♂ ♀.

Other Hymenoptera (4)—*Sphec.*: *Priononyx atrata*, *Sphex nigricans*, *pietipennis*, *procera* ab.

Diptera (13)—*Syrph.*: *Eristalis dimidiatus*, *flavipes*, *transversus* fq, *Helophilus latifrons*, *Volucella evecta* f; *Empid.*: *Parempis*; *Bombyli.*: *Anthrax parvicornis*, *Bombylius atriceps* ab, *Argyroamoeba oedipus* f, n, *Toxophora*; *Conop.*: *Physocephala tibialis*; *Tachin.*: *Archytas aterrima*, *Epigrimyia polita*.

Lepidoptera (15)—*Nymphal.*: *Anosia*, *Argynnis*, *Charidryas*; *Papilion.*: *Eurymus*, *Iphiclides*, *Jasoniades*, *Pieris*, *Pontia*; *Hesper.*: *Achalarus*, *Epargyreus*, *Euphyes verna*, *Limochores manataaqua*, *taumas*, *Pholisora hayhurstii*, *Thorybes pylades*.

Coleoptera (2, sf, n)—*Scarabae.*: *Trichius affinis*, *piger* fq.

Blephilia hirsuta (14: 114-5).—Blooms June 21–September 3; 83 visitors observed, June 26–July 29; Mas, W.

Long-tongued Bees (36)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♀, *separatus* ♂ ♀, fq, *Bombus americanorum* ♂ ♀ ♀, fq, *impatiens* ♂, *ridingsii* ♂, fq, *Psithyrus laboriosus* ♀, *variabilis* ♀; *Ceratin.*: *Ceratina* ♀, sc, ab, *Zaodontomerus* ♂; *Megachil.*: *Trypetini*: *Neotrypetes truncatus* ♀, sc; *Osmiini*: *Alcidamea simplex* ♀; *Megachilini*: *Chelostomoides* ♂ ♀, fq, *Megachile brevis* ♂ ♀, *generosa* ♂, *mendica* ♂ ♀, fq, *petulans* ♂ ♀, *Sayapis sayi* ♂, fq, *Xanthosarus* ♂; *Coelioxyni*: *Coelioxys 8-dentata* ♂, *rufitarsis* ♂, *sayi* ♂ ♀, fq; *Epeol.*: *Triepeolus concavus* ♂, *concolor* ♂ ♀, fq, *ressonii* ♂, *remigatus* ♀; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, *Florilegus* ♀, *Melissodes agilis* ♂, *bimaculata* ♂ ♀, fq, *comptoides* ♂ ♀, fq, *trinodis* ♂ ♀, *variabilis* ♂ ♀, *Peponapis* ♂; *Anthophor.*: *Amegilla* ♀, *Clisodon* ♂ ♀, sc.

Short-tongued Bees (13)—*Halict.*: *Agapostemon radiatus* ♂ ♀, sc, fq, *splendens* ♂, *viridulus* ♀, *Augochlora viridula* ♂, *Chloralictus pilosus* ♀, *sparsus* c, ab, n, *Evylaeus arcuatus* ♂, *pectoralis* ♀, sc, 4-maculatus ♀, c, n, *Halictus lerouxii* ♂ ♀, *Oxystoglossa confusa* ♂ ♀, sc, ab, *pura* ♀; *Prosopid.*: *Prosopis ziziae* ♀, f, n.

Other Hymenoptera (6)—*Sphex.*: *Sphex nigricans*, *procera*, *vulgaris*; *Scoli.*: *Elis 5-cincta*; *Eumen.*: *Leionotus foraminatus* fq; *Pompil.*: *Ceropales fulvipes*.

Diptera (16)—*Syrph.*: *Allograpta* f, n, *Eristalis transversus*, *Syritta* f, fq, n, *Tropidia albistylum*, *Xylota fraudulosa* f, n; *Empid.*: *Parempis*; *Bombyli.*: *Anthrax parvicornis*, *sinuosa* f, n, *Argyramoeba albofasciata* f, n; *Conop.*: *Oncomyia*, *Physocephala texana* fq, *tibialis*, *Stylogaster neglecta* ab, *Zodion obliquefasciatum*; *Tachin.*: *Archytas analis*; *Musc.*: *Stomoxys*.

Lepidoptera (12)—*Nymphal.*: *Anosia*, *Argynnis*, *Charidryas*, *Vanessa atalanta*, *cardui*; *Papilion.*: *Eurymus* fq, *Pieris*, *Pontia*; *Hesper.*: *Epargyreus*, *Euphyes metacomet*, *Polites*; *Ctenuch.*: *Seopsis*.

Hedeoma pulegioides (14: 108).—Blooms July 21–September 28; 8 visitors observed, August 8, 11; Mi, R.

Long-tongued Bees (1) *Ceratin.*: *Ceratina* ♀.

Short-tongued Bees (6)—*Halict.*: *Chloralictus versatus* ♀, sc, *regularis* ♀, sc, *Odontalictus* ♂, *Oxystoglossa confusa* ♀, *similis* ♂ ♀, sc, fq; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, ab.

Diptera (1)—*Syrph.*: *Mesogramma marginata* f, n.

Isanthus brachiatus.—Blooms August 19–October 20; 3 visitors observed, August 29; Mi, R.

Short-tongued Bees (3)—*Halict.* (♀, c): *Chloralictus pilosus*, *sparsus*, *versatus*.

Leonurus cardiaca (int, 14:123).—Blooms June 4–October 18; 11 visitors observed, June 15–July 1; Ma, R.

Long-tongued Bees (5)—*Ap.*: *Apis* ab; *Bomb.* (♀): *Bombias auricomus*, *Bombus americanorum*; *Ceratin.*: *Ceratina* ♀, se, fq; *Anthophor.*: *Anthemoessa* ♂.

Short-tongued Bees (3)—*Halict.* (♀, c, n): *Chloralictus sparsus*, *versatus* ab, *Seladonia*.

Diptera (3)—*Syrph.* (f, n): *Allograpta*, *Mesogramma geminata*, *Syrphus ribesii*.

Lycopus americanus (14:103–4).—Blooms July 15–September 16; 140 visitors observed, August 13–September 7; Pol, W.

Long-tongued Bees (13)—*Ap.*: *Apis* ab; *Bomb.*: *Bombus americanorum* ♀, *impatiens* ♀, fq, *Psithyrus variabilis* ♂; *Ceratin.*: *Ceratina* ♀, se, fq; *Megachil.*: *Megachilini*: *Megachile brevis* ♀, *mendica* ♂, *petulans* ♂; *Coelioxysi*: *Coelioxys germana* ♀; *Epeol.*: *Triepeolus concolor* ♀; *Eucrer.*: *Melissodes comptoides* ♂ ♀, *nivea* ♀, *simillima* ♂.

Short-tongued Bees (17)—*Halict.*: *Agapostemon radiatus* ♂ ♀, *Augochlora fervida* ♂ ♀, fq, *Chloralictus sparsus* ♀, se, *versatus* ♀, se, ab, *Curtisapis coriacea* ♀, *Haliectus lerouxii* ♂, *parallelus* ♂, *Odonalictus* ♀, *Oxystoglossa similis* ♀, *Seladonia* ♂ ♀; *Prosopid.*: *Prosopis illinoensis* ♀, *pygmaea* ♂, *ziziae* ♂ ♀; *Collet.*: *Colletes americanus* ♂, *latitarsis* ♂; *Panurg.*: *Calliopsis andreniformis* ♀, se, *Perdita* ♂ ♀, in cop.

Other Hymenoptera (36)—*Sphex.*: *Ammobia ichneumonea* fq, *pennsylvanica*, *Isodontia apicalis*, *Priononyx atrata*, *thomae*, *Seeliphron*, *Sphex gracilis*, *nigricans* ab, *pictipennis*, *procera*; *Bembic.*: *Bicyrtes ventralis*, *Megastizus* fq, *Stizus*; *Scoli.*: *Elis interrupta* fq, *5-cincta* fq, *Scolia bicincta*; *Philanth.*: *Eucereeris* fq, *Philanthus punctatus*, *ventilabris*; *Vesp.*: *Polistes annularis*, *pallipes*, *variatus*, *Vesputa maculata*; *Eumen.*: *Eumenes fraternus*, *Leionotus foraminatus*, *vagus*; *Larr.*: *Tachytes aurulentus*, *elongatus*, *mandibularis*; *Pompil.*: *Ceropales bipunctata*, *Lophopompilus philadelphicus*, *Poecilopompilus interruptus*, *navus*, *Pompiloides marginatus*, *Priocnemoides fulvicornis* fq; *Chrysid.*: *Hedychrum wiltii*.

Diptera (35)—*Syrph.*: *Mesogramma marginata*, *Orthoneura nitida*, *Paragus bicolor*, *tibialis*, *Sphaerophoria*, *Syritta*; *Empid.*:

Parempis; *Bombyli.*: *Exoprosopa fasciata*, *fascipennis*; *Conop.*: *Conops xanthopareus*, *Physocephala texana*; *Tachin.*: *Archytas analis* ab, *aterrima* ab, *hystrix*, *Cistogaster pallasii*, *Cyphocera*, *Distichona auriceps*, *Gymnosoma*, *Linnaemyia*, *Ocyptera lata*, *tenuis*, *Peleteria* fq, *Senotainia rubriventris*, *Siphoplagia anomala* fq, *Spallanzania* ab, *Trichopoda pennipes*, *Trichophora*; *Dexi.*: *Scotipectera*; *Sarcophag.*: *Helicobia helicis*, *Scarcephaga sinuata*; *Musc.*: *Compsomyia*, *Lucilia sericata*, *sylvarum*, *Pseudopyrellia*; *Anthomy.*: *Limnophora*.

Lepidoptera (8)—*Nymphal.*: *Basilarchia archippus*, *Phyciodes*; *Lycaen.*: *Everes*; *Papilion.*: *Eurymus*; *Hesperi.*: *Ancyloxypha*, *Limochores taumas*, *Pholisora catullus*; *Ctenuch.*: *Scepsis*.

Coleoptera (1)—*Lampyr.*: *Chauliognathus pennsylvanicus* ab.

On August 22, 24, 27, 29, 1910, the following 51 species and 383 individuals were taken on the flowers:

Long-tongued Bees (3:13)—*Ap.*: *Apis* 10; *Megachil.*: *Megachile brevis* 2; *Eucer.*: *Melissodes comptoides* 1.

Short-tongued Bees (3:11)—*Halict.*: *Augochlora fervida* 1, *Chloralictus sparsus* 1, *versatus* 9.

Other Hymenoptera (17:51)—*Sphex.*: *Ammobia ichneumonea* 2, *Priononyx atrata* 3, *thomae* 2, *Sceliphron* 1, *Sphex nigricans* 9; *Bembic.*: *Bicyrtes ventralis* 1, *Megastizus* 6, *Stizus* 1; *Scoli.*: *Elis 5-cincta* 6; *Philanth.*: *Eucerceris* 2; *Vesp.*: *Polistes pallipes* 3; *Larr.*: *Tachytes aurulentus* 1, *elongatus* 2, *mandibularis* 1; *Pompil.*: *Lophopompilus philadelphicus* 1, *Poecilopompilus interruptus* 2, *Priocnemoides fulvicornis* 8.

Diptera (24:141)—*Syrph.*: *Mesogramma marginata* 1, *Syritta* 2; *Bombyli.*: *Exoprosopa fasciata* 2; *Conop.*: *Conops xanthopareus* 1; *Tachin.*: *Archytas analis* 24, *aterrima* 5, *hystrix* 1, *Cistogaster pallasii* 1, *Cyphocera* 2, *Gymnosoma* 3, *Linnaemyia* 1, *Ocyptera tenuis* 2, *Peleteria* 5, *Senotainia rubriventris* 5, *Siphoplagia anomala* 8, *Spallanzania* 64, *Trichophora* 4; *Sarcophag.*: *Helicobia helicis* 2, *Sarcophaga sinuata* 4; *Musc.*: *Compsomyia* 1, *Lucilia sericata* 1, *sylvarum* 3, *Pseudopyrellia* 2; *Anthomy.*: *Limnophora* 1.

Lepidoptera (3:5)—*Nymphal.*: *Basilarchia archippus* 1, *Phyciodes* 3; *Hesperi.*: *Limochores taumas* 1.

Coleoptera (1:162)—*Lampyr.*: *Chauliognathus pennsylvanicus* 162.

Marrubium vulgare (int, 14:122-3).—Blooms May 21-October 5; 7 visitors observed, June 22, 25, 29, September 9; Ma, W.

Long-tongued Bees (5)—*Ap.*: *Apis* ab; *Bomb.* (♀): *Bombias separatus*, *Bombus americanorum*; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile brevis* ♀.

Diptera (1)—*Bombyli.*: *Bombylius atriceps*.

Lepidoptera (1)—*Papilion.*: *Pontia* fq.

***Mentha arvensis* (14: 102-3).**—Blooms July 17-October 7; 25 visitors observed, August 13-September 16; Pol, W.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa confusa* ♂.

Other Hymenoptera (9)—*Sphec.*: *Ammobia nuda*, *Isodontia apicalis*, *Sphex gracilis*, *vulgaris*; *Bombic.*: *Bembix nubillipennis*; *Scoli.*: *Elis interrupta*, 5-cincta fq; *Philanth.*: *Eucereceris*; *Pompil.*: *Pompiloides marginatus*.

Diptera (12)—*Syrph.*: *Milesia*, *Syritta*, *Tropidia quadrata*; *Empid.*: *Parempis*; *Bombyli.*: *Exoprosopa fascipennis*; *Conop.*: *Conops xanthopareus*; *Tachin.*: *Archytas analis*, *aterrima* ab; *Dexi.*: *Ptilodexia*, *Seotiptera*; *Musc.*: *Lucilia sylvarum*, *Pseudopyrellia*.

Lepidoptera (2)—*Papilion.*: *Pieris*; *Hesperi.*: *Aneyloxypha*.

Coleoptera (1)—*Lampyr.*: *Chauliognathus pennsylvanicus* ab.

***Monarda bradburiana* (14: 108-11).**—Blooms May 7-June 16; 37 visitors observed, May 10-June 16; Ma, R.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (14)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♀, fq, *separatus* ♀, fq, *Bombus americanorum* ♀, ab, *impatiens* ♀, ♀, *ridingsii* ♀, se; *Ceratin.*: *Ceratina* ♀, se, ab, n; *Megachil.*: *Megachilini*: *Megachile mendica* ♀; *Coelioxyni*: *Coelioxys sayi* ♀, *type*; *Eucer.*: *Tetralonia dilecta* ♂ ♀, fq, *rosae* ♂; *Anthophor.*: *Anthemoessa* ♂ ♀, fq, *Anthophora* ♀, *Clisodon* ♂.

Short-tongued Bees (9, n)—*Halict.* (♀): *Chloralictus versatus* e, *Curtisapis coriacea* e, *forbesii* e, *Evylaeus pectoralis* e, 4-maculatus e, *Oxystoglossa confusa* e, ab, *similis*, at holes made by *Leionotus*; *Prosopid.*: *Prosopis sayi* ♂, f; *Panurg.*: *Heterosarus parvus* ♀, e, fq, *type*.

Other Hymenoptera (1)—*Eumen.*: *Leionotus foraminatus*, perforating.

Diptera (1)—*Bombyli.*: *Bombylius atriceps* ab.

Lepidoptera (11)—*Nymphal.*: *Argynnis*, *Vanessa huntera*; *Papilion.*: *Euphœades*, *Heraclides*, *Jasoniades*, *Laertias*; *Hesperi.*: *Atrytone zabulon*, *Epargyreus*, *Euphyes metacomet*, *Thorybes bathyllus*, *pylades*.

***Monarda fistulosa* (14: 11-3).**—Blooms July 7-September 24; 61 visitors observed, July 16-September 10; Mas, R.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (21)—*Ap.*: *Apis*, at holes made by *Leionotus*, ab, n; *Bomb.*: *Bombias auricomus* ♂ ♀ ♀, ab, *separatus* ♂ ♀, ab, *Bombus americanorum* ♂ ♀ ♀, ab, *consimilis* ♀, fq; *Ceratin.*: *Ceratina* ♀, c and at holes made by *Leionotus*, fq, n; *Megachil.*: *Megachilini*: *Cyphopyga* ♂, *Xanthosarus* ♀; *Coelioxyini*: *Coelioxys rufitarsis* ♀; *Epeol.*: *Triepeolus concavus* ♀, *concolor*, ♀, *nevadensis* ♂, *remigatus* ♀; *Eucer.*: *Anthedon* ♂ ♀, ab, *Epimelissodes obliqua* ♂ ♀, *Melissodes agilis* ♂, *bimaculata* ♂ ♀, sc, fq, *enici* ♂, *comptoides* ♂ ♀, *trinodis* ♀, *variabilis* ♀, sc, *type*.

Short-tongued Bees (7, ♀, at holes made by *Leionotus*)—*Halict.*: *Agapostemon radiatus*, *Chloralictus pilosus*, *versatus*, also c, *Halictus lerouxii*, *Odontalictus*, *Oxystoglossa confusa*, *Seladonia*.

Other Hymenoptera (3, n)—*Sphec.*: *Sphex pictipennis*, at holes; *Eumen.*: *Leionotus dorsalis*, *perforating*, *foraminatus*, *perforating*.

Diptera (6)—*Bombyli.*: *Exoprosopa decora*, *fasciata* ab, *Argyroamoeba albofasciata* f, n, *Systoechus* fq; *Conop.*: *Physocephala tibialis*, *Stylogaster biannulata* n.

Lepidoptera (23)—*Nymphal.*: *Anosia*, *Argynnis*, *Basilarchia archippus*, *Speyeria*, *Vanessa atalanta*, *cardui*, *huntera*; *Papilion.*: *Euphoades*, *Eurymus*, *Heraclides*, *Laertias* ab, *Papilio* ab, *Pontia*; *Hesperi.*: *Achalarus*, *Atrytone delaware*, *zabulon*, *Epargyreus*, *Euphyes metacomet*, *Pholisora catullus*, *hayhurstii*, *Thorybes bathyllus*; *Sphinx.*: *Hemaris axillaris*, *thysbe*.

Nepeta cataria (int, 14: 116-7).—Blooms June 19–November 19; 73 visitors observed, June 26–September 10; Mas, R.

Long-tongued Bees (28)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♀, *separatus* ♂ ♀, fq, *Bombus americanorum* ♂ ♀ ♀, fq, *consimilis* ♀, sc, fq, *impatiens* ♂ ♀, fq, *ridingsii* ♂; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Trypetini*: *Neotrypetes truncatus* ♀; *Osmiini*: *Alcidamea simplex* ♀; *Megachilini*: *Anthemois* ♂ ♀, *Chelostomoides* ♂ ♀, ab, *Megachile brevis* ♂ ♀, fq, *generosa* ♂ ♀, *mendica* ♀, *petulans* ♀, *Oligotropus* ♂, *Sayapis pugnata* ♂; *Coelioxyini*: *Coelioxys 8-dentata* ♂, *sayi* ♂ ♀; *Nomad.*: *Centrias americanus* ♀; *Epeol.* (♂): *Epeolus bifasciatus*, *Triepeolus concavus*, *concolor* fq, *remigatus*; *Eucer.*: *Epimelissodes obliqua* ♂, *Melissodes bimaculata* ♂ ♀, fq, *variabilis* ♂.

Short-tongued Bees (10)—*Halict.*: *Agapostemon radiatus* ♂ ♀, fq, *viridulus* ♀, *Chloralictus pilosus* ♂ ♀, *sparsus* ♀, c, *versatus* ♀, sc, fq, *Halictus lerouxii* ♂ ♀, fq, *parallelus* ♀, *Odontalictus* ♀, *Seladonia* ♂ ♀; *Panurg.*: *Calliopsis andreniformis* ♀.

Other Hymenoptera (11)—*Sphec.*: *Priononyx atrata*, *Sphex gracilis*, *nigricans*, *pictipennis*, *procera*, *vulgaris*; *Scoli.*: *Elis 5-cincta*; *Eumen.*: *Leionotus anormis*, *dorsalis*, *foraminatus*, *fulvipes*.

Diptera (12)—*Syrph.*: *Eristalis tenax*, *Helophilus latifrons*, *Rhingia*, *Sphaerophoria*, *Syritta*; *Bombyli.*: *Anthrax fulvohirta*, *parvicornis*; *Tachin.*: *Archytas analis*, *aterrima*, *Cyphocera*, *Limnæmyia*, *Ocyptera lata*.

Lepidoptera (11)—*Nymphal.*: *Argynnis*, *Phyciodes*, *Vanessa atalanta*, *huntera*; *Papilion.*: *Eurymus*, *Pieris*, *Pontia* ab; *Hesper.*: *Epargyreus*, *Pholisora catullus*, *Thanaos juvenalis*, *martialis*.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

Nepeta hederacea (int, 14: 117–8).—Blooms March 24–June 21; 22 visitors observed, March 25–May 20; Ma, R.

Long-tongued Bees (12)—*Ap.*: *Apis* ab; *Bomb.* (♀): *Bombus americanorum* ab, *consimilis*, *pennsylvanicus*, *ridingsii*; *Ceratin.*: *Ceratina* ♂ ♀, ab; *Megachil.*: *Alcidamea simplex* ♂, *Osmia collinsiae* ♂, *pumila* ♂ ♀, fq; *Nomad.*: *Holonomada superba* ♀, fq; *Eucerr.*: *Tetralonia dilecta* ♂ ♀, ab; *Anthophor.*: *Anthemoessa* ♂ ♀, ab.

Short-tongued Bees (2, ♀)—*Halict.*: *Augochlora viridula*, *Oxytroglossa confusa*.

Diptera (2)—*Syrph.*: *Rhingia*; *Bombyli.*: *Bombylius atriceps* ab.

Lepidoptera (6, n)—*Papilion.*: *Eurymus* ab, *Pieris*; *Hesper.*: *Atrytone zabulon* fq, *Pamphila hobomok*, *Polites*; *Noctu.*: *Plusia simplex*.

Physostegia virginiana (14: 121–2).—Blooms July 19–October 10; 7 visitors observed, August 23–September 22; Ma, R.

Birds (1)—*Trochil.*: *Trochilus* 2.

Long-tongued Bees (4)—*Bomb.*: *Bombus americanorum* ♂ ♀ ♀, 20, *consimilis* ♀, se, 1; *Megachil.*: *Megachile brevis* ♂, 1; *Eucerr.*: *Melissodes bimaculata* ♂, 1.

Lepidoptera (2, n)—*Nymphal.*: *Anosia* 1; *Papilion.*: *Eurymus* 1.

Prunella vulgaris (14: 120–1).—Blooms July 6–November 19; 23 visitors observed, July 11–October 3; Ma, R.

Long-tongued Bees (9)—*Bomb.*: *Bombias separatus* ♂, *Bombus americanorum* ♀, ab, *consimilis* ♀, *impatiens* ♂ ♀, se, fq; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile mendica* ♂; *Eucerr.*: *Melissodes bimaculata* ♂ ♀, *comptoides* ♀; *Anthophor.*: *Clisodon* ♂ ♀.

Short-tongued Bees (3, ♀)—*Halict.*: *Oxytroglossa confusa*, *Selandonia* n; *Panurg.*: *Calliopsis andreniformis*.

Other Hymenoptera (1)—*Scoli.*: *Scolia bicincta*.

Diptera (2)—*Bombyli.*: *Exoprosopa fasciata*; *Tachin.*: *Archytas aterrima*.

Lepidoptera (8, n)—*Papilion.*: Eurymus, Pieris, Pontia; *Hesper.*: Ancyloxypha, Atrytone delaware, Limochores taumas, Pholisora hayhurstii, Polites.

Pycnanthemum flexuosum (14: 107).—Blooms June 19–September 12; 268 visitors observed, June 19–August 3; Mis, W.

Long-tongued Bees (44)—*Ap.*: Apis ab; *Bomb.*: Bombias auricomus ♂ ♀ ♀, se, fq, in cop, *type*, scutellaris ♀, separatus ♂ ♀ ♀, se, fq, Bombus americanorum ♂ ♀ ♀, impatiens ♀, ♀, Psithyrus laboriosus ♀, variabilis ♀; *Ceratin.*: Ceratina ♀; *Stelid.*: Stelidium ♀, *type*; *Megachil.*: Osmiini: Alcidamea simplex ♀; Megachilini: Megachile brevis ♂ ♀, fq, generosa ♂ ♀, mendica ♂ ♀, ab, petulans ♂ ♀, se, fq, Oligotropus ♂, Sayapis sayi ♂ ♀, fq, Xanthosarus ♂ ♀; Coelioxyni: Coelioxys alternata ♂, germana ♂ ♀, modesta ♂, 8-dentata ♂ ♀, ab, sayi ♂ ♀, fq; *Nomad.*: Cephen ♀; *Pasit.*: Holcopasites illinoensis ♂ ♀; *Epeol.*: Epeolus bifasciatus ♂, fq, lectoides ♀, *type*, Triepeolus concavus ♂ ♀, fq, concolor ♂ ♀, ab, cressonii ♂, lunatus ♂ ♀, fq, nevadensis ♂ ♀, remigatus ♂ ♀, fq, simplex ♂; *Melect.*: Melecta ♂; *Eucer.*: Anthedon ♂ ♀, Epimelissodes illinoensis ♀, obliqua ♂ ♀, fq, Florilegus ♀, Melissodes agilis ♂ ♀, bimaculata ♂ ♀, ab, comptoides ♂, cereopsis ♀, variabilis ♂.

Short-tongued Bees (38)—*Halict.*: Agapostemon radiatus ♂ ♀, ab, texanus ♀, Augochlora fervida ♂ ♀, se, viridula ♂ ♀, Chloralictus pilosus ♂, pruinosis ♂, sparsus ♀, tegularis ♀, se, versatus ♂ ♀, se, fq, Curtisapis forbesii ♂ ♀, fq, Evelyaeus arcuatus ♂, pectoralis ♂ ♀, se, Halictus lerouxii ♂ ♀, ab, parallelus ♂ ♀, fq, Odontalictus ♂ ♀, ab, Oxystoglossa confusa ♂ ♀, similis ♂ ♀, fq, Seladonia ♂ ♀; Sphecodini: Dialonia ♀, Machaeris stygia ♂ ♀, ab, Proteraner ♂, Sphecodes arvensis ♂ ♀, ab, heraclei ♂, minor ♀, Sphecodium cressonii ♀, pycnanthemii ♀, *type*; *Prosopid.*: Prosopis pygmaea ♀, fq, sayi ♂, ziziae ♂ ♀, fq; *Collet.*: Colletes eulophi ♂ ♀, fq, latitarsis ♂ ♀, nudus ♂ ♀, *type*, similis ♀, *type*, willistonii ♂ ♀, ab; *Nomi.*: Paranomia ♂ ♀, ab; *Andren.*: Trachandrena obscura ♀, *type*, quintilis ♀, fq, *type*; *Panurg.*: Calliopis andreniformis ♀.

Other Hymenoptera (89)—*Sphec.*: Ammobia ichneumonea fq, nuda, pennsylvanica, Isodontia apicalis, Palmodes, Priononyx atrata fq, thomae, Sceliphron, Sphex gracilis in cop, nigricans fq, pictipennis, procera; *Bembic.*: Bembix nubillipennis fq, spinolae, Bicyrtes 4-fasciata fq, ventralis, Megastizus, Stictia, Stictiella fq, Stizus; *Scoli.*: Campsomeris, Elis interrupta, obscura ab, 5-cincta ab, thoracica, Scolia bicincta, nobilitata; *Philanth.*: Cerceris bicornuta, clypeata, compacta, compar, finitima, fumipennis, robertsonii, rufinoda, Eucerceris, Philanthus punctatus fq, ventilabris fq;

Vesp.: *Polistes annularis*, *rubiginosus*, *variatus*; *Eumen.*: *Ancistrocerus campestris*, *capra*, *unifasciatus*, *Eumenes fraternus* in cop, *Leionotus anormis* fq, *arvensis*, *elypeatus type*, *dorsalis*, *foraminatus* ab, *fulvipes*, *fundatus*, *histrionalis*, *molestus*, *serophulariae*, *vagus*, *ziziae*, *Monobia*, *Pterochilus*, *Zendalia zendaloides*, *Zethus*; *Crabron.*: *Hypoerabro*, *Protothyreopus ruffemur*, *Pseudoerabro* fq, *Solenius* ab; *Oxybel.*: *Notoglossa americana*, *emarginata*, *frontalis*, *Oxybelus laetus*, *packardii*; *Larr.*: *Astatus unicolor*, *Notogonidea*, *Tachysphex acutus*, *belfragei*, *mundus*, *Tachytes aurulentus*, *elongatus* ab, *harpax*, *pepticus*; *Nysson.*: *Pseudoplisus phaleratus*; *Pompil.*: *Arachnoproctonus*, *Batizonus*, *Ceropales robinsonii*, *Lophopompilus philadelphicus*, *Poecilopompilus navus*, *Pompiloides americanus*, *marginatus*, *Prioenemoides fulvicornis* fq; *Chrysid.*: *Hedychrum violaceum*.

Diptera (54)—*Stratiomy.*: *Odontomyia cineta*, *Stratiomyia meigenii*; *Syrph.*: *Eristalis aeneus*, *dimidiatus*, *latifrons* fq, *tenax* fq, *transversus*, *vinetorum* fq, *Helophilus latifrons*, *Mallota cimbiciformis*, *illinoensis type*, *Mesogramma marginata* ab, *Milesia*, *Orthoneura nitida* fq, *Sphaerophoria*, *Spilomyia longicornis*, *Syritta* ab, *Tropidia mamillata*; *Empid.*: *Parempis* ab; *Mida.*: *Midas clavatus* ab, *tibialis*; *Bombyli.*: *Anthrax alternata*, *fulvohirta* fq, *parvicornis*, *Argyramoeba albofasciata* f, n, *Exoprosopa emarginata* fq, *fasciata*, *fascipennis* ab; *Conop.*: *Conops brachyrrhynchus*, *xanthopareus* ab, in cop, *Oncomyia*, *Physocephala texana*, *tibialis* ab, *Zodion fulvifrons*, *obliquefasciatum* in cop; *Tachin.*: *Alophora aeneoventris* ab, *fumosa*, *Archytas analis* ab, *aterrima*, *Cistogaster oecidua*, *pallasii* fq, *Clytiomyia*, *Epigrimyia polita*, *Linnaemyia*, *Ocyptera lata*, *tenuis*, *Paradidyma*, *Phoranthia humeralis*, *Spallanzania*, *Xanthomelana*; *Musc.*: *Compsomyia*, *Phormia terracenovae*, *Pseudopyrellia*; *Anthomy.*: *Limnophora*.

Lepidoptera (29)—*Nymphal.*: *Argynnis*, *Basilarchia archippus*, *Charidryas*, *Euptoieta*, *Hypatus*, *Junonia*, *Neonympha*, *Phycoides*, *Vanessa atalanta*, *cardui*, *huntera* ab; *Lycæn.*: *Chrysophanus*, *Everes*, *Strymon*, *Uranotes*; *Papilion.*: *Eurema*, *Eurymus*, *Laertias*, *Pieris*, *Pontia*, *Zerene*; *Hesper.*: *Epargyreus*, *Limochores taumas*, *Pholisora catullus*, *Polites*, *Thanaos juvenalis*, *martialis*, *Thorybes bathyllus*; *Ctenuch.*: *Seepsis*.

Coleoptera (9)—*Cerambyc.*: *Typocerus sinuatus* fq; *Curculion.*: *Centrinus scutellum-album* fq; *Mordell.*: *Mordella marginata*, *8-punctata*; *Rhipiphor.*: *Rhipiphorus dimidiatus*, *flavipennis*, *limbatus* ab; *Scarabac.*: *Trichius affinis*, *piger*.

Hemiptera (5)—*Caps.*: *Calocoris*; *Lygae.*: *Lygaeus*, *Oncopeltus* fq, *Ortholomus*; *Pentatom.*: *Euchistus ictericus*.

Pycnanthemum pilosum (14:106).—Blooms July 5–September 8; 113 visitors observed, July 21–August 29; Mis, W.

Long-tongued Bees (17)—*Ap.*: *Apis* ab; *Bomb.*: *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachilini*: *Megachile brevis* ♀, *mendica* ♂, *petulans* ♂, fp, *Xanthosarus* ♂; *Coelioxyini* (♂): *Coelioxys germana* fq, *8-dentata*, *sayi*; *Epeol.*: *Epeolus bifasciatus* ♂ ♀, ab, *Triepeolus concavus* ♂ ♀, fq, *remigatus* ♀, fq, *simplex* ♂; *Eucer.*: *Epimelissodes obliqua* ♂, *Melissodes agilis* ♂, *comptoides* ♂ ♀, ab.

Short-tongued Bees (16)—*Halict.*: *Agapostemon radiatus* ♂, ab, *Augochlora viridula* ♂ ♀, fq, *Chloralictus pilosus* ♀, *sparsus* ♀, sc, ab, *versatus* ♂ ♀, sc, ab, *zephyrus* ♀, *Evylaeus arcuatus* ♂ ♀, *pectoralis* ♀, *Halictus lerouxii* ♂ ♀, ab, *parallelus* ♂ ♀, fq, *Odontalictus* ♂ ♀, ab, *Seladonia* ♂ ♀, ab; *Sphecodini*: *Sphecodes arvensis* ♂ ♀, fq, *Sphecodium cressonii* ♂; *Prosopid.*: *Prosopis ziziae* ♀; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, sc, fq.

Other Hymenoptera (43)—*Sphec.*: *Ammobia ichneumonea*, *nuda*, *Isodontia apicalis*, *Priononyx atrata*, *Sphex gracilis* fq, *nigricans*, *pictipennis* fq, *procera*, *vulgaris*; *Bembic.*: *Bembix nubillipennis* ab, *Bicyrtes 4-fasciata*, *ventralis*, *Stictia*, *Stictiella*; *Scoli.*: *Elis interrupta*, *5-cincta* ab, *Scolia bicincta*; *Philanth.*: *Cerceris compacta*, *frontata*, *fumipennis* fq, *Eucerceris*, *Philanthus punctatus* fq, *ventilabris* fq; *Vesp.*: *Polistes variatus*; *Eumen.*: *Leionotus anormis*, *arvensis*, *dorsalis*, *foraminatus* ab, *fundatus*, *histrionalis*, *molestus* fq, *scrophulariae*, *vagus* fq, *Pterochilus*, *Zendalia zendaloides type*; *Crabron.*: *Anacrabro*, *Solenius*; *Oxybel.*: *Notoglossa frontalis*; *Larr.*: *Tachytes aurulentus*, *elongatus*, *mandibularis*; *Pompil.*: *Priocnemoides fulvicornis*; *Chrysid.*: *Hedychrum wiltii*.

Diptera (31)—*Stratiomy.*: *Stratiomyia meigenii*; *Syrph.*: *Eristalis dimidiatus*, *tenax*, *transversus*, *Syritta* ab; *Bombyli.*: *Anthrax fulvohirta*, *Exoprosopa emarginata*, *fascipennis* ab, *Geron rufipes*, *Systoechus*; *Conop.*: *Conops xanthopareus* fq, *Oncomyia*, *Physocephala tibialis*, *Zodion fulvifrons*, *obliquefasciatum*; *Tachin.*: *Archytas analis* ab, *aterrima*, *Cistogaster occidua*, *pallasii*, *Ocyptera tenuis*, *Phoranthia magna*, *purpurascens*, *Senotainia trilineata*, *Siphona*, *Spallanzania*, *Trichopoda pennipes*, *Trichophora*; *Sarcophag.*: *Helicobia helcis*; *Musc.*: *Compsomyia*, *Phormia regina*, *Stomoxys*.

Lepidoptera (4)—*Nymphal.*: *Phyciodes*; *Papilion.*: *Pontia*; *Hesperi.*: *Epargyreus*, *Thanaos martialis*.

Coleoptera (2)—*Rhipiphor.*: *Rhipiphorus dimidiatus* in cop, limbatus.

Pycnanthemum virginianum (14: 104-6).—Blooms July 12-September 7; 66 visitors observed, July 12-September 6; Mis, W.

Long-tongued Bees (10)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias* *seutellaris* ♀, *separatus* ♀; *Megachil.*: *Neotrypetes* *truncatus* ♀, *Coelioxys* *8-dentata* ♀; *Epeol.*: *Epeolus* *bifasciatus* ♂, *Triepeolus* *concolor* ♂ ♀, fq; *Eucer.*: *Epimelissodes* *atripes* ♀, *Florilegus* ♂, *Melissodes* *comptoides* ♂ ♀.

Short-tongued Bees (15)—*Halict.*: *Agapostemon* *radiatus* ♂, ab, *Augochlora* *fervida* ♀, *viridula* ♂ ♀, *Chloralictus* *sparsus* ♂, fq, *versatus* ♂ ♀, ab, *Evyllaenus* *arcuatus* ♂, *pectoralis* ♀, *Halictus* *lerouxii* ♂ ♀, *parallelus* ♀, *Odontalictus* ♀, *Seladonia* ♂ ♀, ab; *Sphecodini*: *Drepanium* ♀, *Sphecodes* *arvensis* ♂ ♀, ab; *Nomi.*: *Paranomia* ♂; *Panurg.*: *Calliopsis* *andreniformis* ♂ ♀.

Other Hymenoptera (23)—*Sphcc.*: *Ammobia* *nuda*, *pennsylvanica*, *Sphex* *gracilis*, *nigricans*, *pietipennis*, *procera* ab, *vulgaris*; *Bembic.*: *Bicyrtes* *4-fasciata*, *Megastizus*, *Stictiella*; *Scoli.*: *Elis* *interrupta*, *5-cincta*, *Scolia* *bicincta*; *Philanth.*: *Cerceris* *fumi-pennis*, *Eucerceris* fq; *Eumen.*: *Eumenes* *fraternus*, *Leionotus* *arvensis*, *dorsalis*, *foraminatus* fq, *Zethus*; *Oxybel.*: *Notoglossa* *americana*; *Larr.*: *Tachytes* *aurulentus*, *elongatus*.

Diptera (14)—*Syrph.*: *Eristalis* *tenax*, *Sphaerophoria*, *Syritta*; *Bombyli.*: *Exoprosopa* *fasciata*, *fascipennis* ab, *Systropus*; *Conop.*: *Oncomyia*, *Zodion* *fulvifrons*; *Tachin.*: *Alophora* *aeneoventris*, *Archytas* *analis* ab, *Cistogaster* *occidua*, *Spallanzania* fq, *Trichopoda* *pennipes*; *Musc.*: *Compsomyia* fq.

Lepidoptera (2)—*Nymphal.*: *Phyciodes* fq; *Papilion.*: *Pontia*.

Coleoptera (1)—*Rhipiphor.*: *Rhipiphorus* *limbatus*.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

Scutellaria canescans (14: 119-20).—Blooms July 7-September 19; 13 visitors observed, July 31-August 26; Ma, R.

Long-tongued Bees (6)—*Bomb.*: *Bombias* *auricomus* ♀, *separatus* ♀, *Bombus* *americanorum* ♂ ♀, se, ab, *consimilis* ♀, se, *impatiens* ♀, se; *Ceratin.*: *Ceratina* ♀, fq, n.

Short-tongued Bees (3)—*Halict.* (♀, sucking at holes made by *Leionotus*): *Chloralictus* *sparsus*, *versatus*, *Oxystoglossa* *confusa*.

Other Hymenoptera (1)—*Eumen.*: *Leionotus* *foraminatus*, perforating.

Diptera (1)—*Bombyli.*: *Exoprosopa* *fasciata* n.

Lepidoptera (2, n)—*Hesperi.*: *Atrytone* *zabulon*, *Epargyreus*.

Scutellaria lateriflora.—Blooms July 18-September 28, 1 visitor observed, July 20; Ma, R.

Long-tongued Bees (1)—*Eucer.*: *Melissodes bimaculata* ♀.

Scutellaria parvula (14:118-9).—Blooms May 8–June 29; 16 visitors observed, May 19–June 3; Ma, R.

Long-tongued Bees (6)—*Bomb.*: *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♂ ♀, ab, *Megachil.*: *Osmiini*: *Alcidamea simplex* ♂ ♀, se, ab, *Diceratomia* ♀, *Osmia pumila* ♀ se; *Megachilini*: *Megachile brevis* ♂.

Short-tongued Bees (5)—*Halict.* (♀): *Chloralictus pilosus*, *pruinus* fq, *type*, *tegularis* fq, *Evylaeus pectoralis*, *Odontalictus*.
Diptera (2, f, n)—*Syrph.*: *Sphaerophoria*, *Syrritta*.

Lepidoptera (3, n)—*Hesperi.*: *Ancyloxypha*, *Pholisora catullus* fq, *Polites*.

Scutellaria versicolor (14:120).—Blooms June 7–July 26; 10 visitors observed, June 14–July 10; Ma, R.

Long-tongued Bees (7)—*Bomb.* (♀ ♂): *Bombus americanorum*, *consimilis* se, fq; *Ceratin.*: *Ceratina* ♀, se, n; *Eucer.*: *Tetralonia dilecta* ♀; *Anthophor.*: *Anthemoessa* ♂ ♀, se, fq, *Anthophora* ♀, se, *Clisodon* ♀, se.

Diptera (1)—*Syrph.*: *Rhingia* f, n.

Lepidoptera (2, n)—*Papilion.*: *Euphœades*, *Papilio*.

Stachys palustris (14:124-5).—Blooms June 2–September 28; 21 visitors observed, June 2–September 10; Ma, R.

Long-tongued Bees (10)—*Bomb.*: *Bombias auricomus* ♀, *Bombus americanorum* ♂ ♀, fq, *consimilis* ♀, *impatiens* ♀; *Ceratin.*: *Ceratina* ♀, ab; *Megachil.*: *Alcidamea simplex* ♀, se, fq, *Megachile brevis* ♀, ab; *Nomad.*: *Holonomada superba* ♀; *Eucer.*: *Melissodes bimaculata* ♂ ♀, fq; *Anthophor.*: *Anthemoessa* ♂.

Short-tongued Bees (3)—*Halict.* (♀): *Agapostemon viridulus*, *Chloralictus versatus* c, n; *Panurg.*: *Calliopsis andreniformis* ♂.

Diptera (3)—*Syrph.* (f, n): *Mesogramma marginata*, *Syrphus ribesii*; *Bombyli.*: *Systoechus*.

Lepidoptera (5, n)—*Papilion.*: *Iphiclides*; *Hesperi.*: *Ancyloxypha*, *Limochores taumas*; *Noctu.*: *Plusia precatationis*, *simplex*.

Teucrium canadense (14:101-2).—Blooms June 19–September 7; 45 visitors observed, June 30–August 19; Mas (Ma), R.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (28)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias scutellaris* ♀, *separatus* ♂ ♀ ♀, fq, *Bombus americanorum* ♂ ♀, se, fq, *consimilis* ♀, *impatiens* ♀, fq, *Psithyrus variabilis* ♀; *Ceratin.*: *Ceratina* ♀, fq, n; *Megachil.*: *Osmiini*: *Alcidamea simplex* ♀;

Megachilini: *Megachile brevis* ♂ ♀, se, fq, mendica ♀, Sayapis sayi ♂ ♀, Xanthosarus ♂ ♀; **Coelioxyni:** *Coelioxys germana* ♀; **Epeol.:** *Triepeolus concavus* ♂, concolor ♂ ♀, fq, simplex ♂; **Eucer.:** *Epimelissodes obliqua* ♂ ♀, **Florilegus** ♂ ♀, se, fq, *Melissodes agilis* ♂, bimaculata ♂ ♀, ab, comptoides ♂, fq, petalostemonis ♀, trinodis ♀, variabilis ♂, vernoniana ♂ ♀; **Anthophor.:** *Amegilla* ♂, *Anthe-moessa* ♀.

Short-tongued Bees (4)—**Halict.:** *Agapostemon viridulus* ♀, *Halictus lerouxii* ♂ ♀, *Oxystoglossa confusa* ♀, n, pura ♀, n.

Other Hymenoptera (1)—**Bembic.:** *Bembix nubillipennis*.

Diptera (5)—**Bombyli.:** *Exoprosopa fasciata*, fascipennis, Systoechus; **Conop.:** *Physocephala texana*, *Stylogaster biannulata*.

Lepidoptera (6)—**Lycaen.:** Everes; **Papilion.:** *Eurymus*, *Laertias*; **Hesperi.:** *Atrytone delaware*, *Polites*; **Sphing.:** *Hemaris axillaris*.

LAURACEAE

Sassafras variifolium (9: 164-5).—Blooms April 27–May 4; 91 visitors observed, April 27–May 4; Pol, Y.

Long-tongued Bees (1)—**Megachil.:** *Osmia pumila* ♀.

Short-tongued Bees (16)—**Halict. (♀):** *Chloralictus cressonii*, *illinoensis*, *sparsus* se, fq, *versatus* se, *zephyrus* se, *Evylaeus arcuatus*, *Halictus lerouxii*; **Sphecodini:** *Sphecodes arvensis*, minor type; **Andren:** *Andrena earlini* ♀, *salictaria* ♂, *Parandrena* ♂, *Pterandrena lauracea* ♀, type, *Trachandrena claytoniae* ♂, fq, *forbesii* ♀, *hippotes* ♂.

Other Hymenoptera (12)—**Vesp.:** *Polistes pallipes*, *variatus*; **Pompil.:** *Cryptocheilus conicus*; **Ichneumon.:** *Glypta rufiseutellaris*, *Idiolespa*, *Ophion*, *Pimpla annulipes*; **Tenthredin.:** *Dolerus bicolor*, *Hylotoma macleayi*, *Macrophya epinota*, *Monophadnus*, *Opisthoneura*.

Diptera (57)—**Bibion.:** *Bibio femoratus* fq, *pallipes* fq; **Simuli.:** *Simulium*; **Stratiomy.:** *Sargus*; **Syrph.:** *Brachypalpus frontosus*, *Chilosia capillata*, *punctulata* fq, *Chrysogaster ontario*, *Criorhina umbratilis* fq, *Eristalis dimidiatus*, *transversus*, *Helophilus similis*, *Melanostoma obscureum*, *Mesogramma marginata*, *Myiolepta strigilata*, *Orthoneura nitida*, *Platychirus hyperboreus*, *quadratus*, *Psilota*, *Sphaerophoria*, *Syrphus americanus*, *ribesii*, *torvus*; **Empid.:** *Empis avida*, *compta* type, *otiosa*, *Rhamphomyia exigua*, *limbata*, *mutabilis* fq, *piligeronis* type, *priapulus* fq, *ravida* fq, in cop, type, *sordida*; **Tachin.:** *Euphorocera claripennis*, *Gonia capitata*, *Linnaemyia*, *Panzeria*, *Tachina robusta*; **Sarcophag.:** *Boettcheria*, *Cynomyia* fq, *Helicobia helieis*, *Sarcophaga cimbicis*, *sinuata*;

Musc.: *Lucilia caesar*, *Morellia* fq, *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Calythea*, *Coenosia antica*, *Homalomyia prostrata*, *Phorbia acra* ab, *platura* ab; *Agromyz.*: *Agromyza aeneoventris*, *latipes*; *Lonchae.*: *Lonchaea aberrans*; *Oscin.*: *Chlorops assimilis*; *Scatophag.*: *Scatophaga*.

Lepidoptera (1)—*Nymphal.*: *Vanessa huntera*.

Coleoptera (3)—*Coccinel.*: *Megilla*; *Lampyr.*: *Telephorus bilineatus* fq; *Oedemer.*: *Asclera puncticollis*.

Hemiptera (1)—*Corimelaen.*: *Corimelaena pulicaria*.

LEGUMINOSAE

Amorpha canescens (3: 80-1).—Blooms June 6-July 24; 49 visitors observed, June 12-28; Mis, R.

Long-tongued Bees (10)—*Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♀ ♀, se, *Psithyrus variabilis* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.* (♀): *Trypetini*: *Neotrypetes truncatus* se; *Osmiini*: *Alcidamea simplex*, *Hoplitis* se, fq; *Megachilini*: *Megachile brevis* se; *Coelioxyni*: *Coelioxys 8-dentata*, *sayi*.

Short-tongued Bees (15)—*Halict.*: *Agapostemon texanus* ♀, *Chloralictus pilosus* ♀, se, *sparsus* ♀, se, *tegularis* ♀, *versatus* ♀, se, fq, *Curtisapis forbesii* ♂, *Halictus lerouxii* ♂ ♀, se, fq, *parallelus* ♀, *Oxystoglossa confusa* ♀, *similis* ♂ ♀, se, *Seladonia* ♂ ♀, se; *Prosopid.* (♀, f, n): *Prosopis pygmaea*, *ziziae*; *Collet.*: *Colletes eulophi* ♂ ♀, se, fq; *Panurg.*: *Calliopsis andreniformis* ♀.

Other Hymenoptera (16)—*Sphex.*: *Isodontia apicalis*, *Priononyx atrata* fq, *thomae*, *Sphex nigricans* fq, *pictipennis*, *procera*, *vulgaris*; *Bembic.*: *Bicyrtes ventralis*; *Scoli.*: *Elis 5-cincta*; *Philanth.*: *Cerceris bicornuta*, *Philanthus ventilabris*; *Eumen.*: *Eumenes fraternus*, *Leionotus anormis*, *dorsalis*; *Larr.*: *Tachytes elongatus*, *pepticus*.

Diptera (5)—*Syrph.* (f, n): *Paragus bicolor*, *Sphaerophoria*, *Tropidia mamillata*; *Bombyli.*: *Anthrax sinuosa* f, n, *Toxophora*.

Coleoptera (3, f, n)—*Chrysomel.*: *Diabrotica atripennis*, 12-punctata; *Melo.*: *Macrobasis*.

Amorpha fruticosa.—Blooms May 10-June 4; 9 species and 18 individuals taken on May 27; Mis (Mas), R.

Long-tongued Bees (3: 10)—*Ceratin.*: *Ceratina* ♀, se, 8; *Megachil.*: *Coelioxys sayi* ♂, 1; *Nomad.*: *Centrias americanus* ♀, 1.

Short-tongued Bees (♀, 6: 8)—*Halict.*: *Chloralictus sparsus* se, 1, *tegularis* se, 1, *Evyllaenus pectoralis* se, 3; *Prosopid.*: *Prosopis saniculae* 1, *sayi* 1, *ziziae* 1.

Amphicarpa pitcheri (3:200-1).—Blooms August 16–September 10; 4 visitors observed, August 22–30; Ma, R.

Birds (1)—*Trochil.*: Trochilus.

Long-tongued Bees (3)—*Bomb.*: *Bombus americanorum* ♂ ♀, *consimilis* ♀, *se. impatiens* ♀, *se.*

Apios tuberosa.—Blooms July 3–August 26; 2 visitors observed, July 20, August 12; Ma, R.

Long-tongued Bees (2, ♀)—*Megachil.*: *Megachile brevis* *se. mendica* fq.

Astragalus canadensis (16:162).—Blooms July 3–August 26; 10 visitors observed, July 7–August 2; Ma, Y.

Long-tongued Bees (7)—*Ap.*: *Apis*; *Bomb.*: *Bombias auricomus* ♀ ♀, *se. fq. separatus* ♀, *Bombus americanorum* ♀ ♀, *se. fq. Stelid.*: *Anthidium psoraleae* ♂ ♀, *fq. in cop*; *Megachil.*: *Anthemois* ♀; *Eucer.*: *Melissodes bimaeculata* ♂.

Short-tongued Bees (1)—*Halict.*: *Haliectus parallelus* ♀.

Other Hymenoptera (1)—*Eumen.*: *Leionotus fundatus*.

Lepidoptera (1)—*Hesper.*: *Thanaos martialis* n.

Astragalus mexicanus (3:199, 16:162).—Blooms April 15–May 12; 16 visitors observed, April 19–May 4; Ma, Y.

Long-tongued Bees (11)—*Bomb.* (♀): *Bombias auricomus* *se. separatus*, *Bombus americanorum* ab; *Megachil.*: *Osmia atriventris* ♂ ♀, *se. illinoensis* ♀, *se. collinsiae* ♀, *se. fq. pumila* ♀, *se. fq. Eucer.*: *Tetralonia dilecta* ♂ ♀, ab, *dubitata* ♀, *se. ab. robertsonii* ♀, *se. type*; *Anthophor.*: *Anthophora* ♂ ♀, *se. fq.*

Diptera (1)—*Bombyli.*: *Bombylius major*.

Lepidoptera (4, n)—*Papilion.*: *Eurymus*, *Papilio*; *Hesper.*: *Thanaos icelus*, *juvenalis*.

Baptisia bracteata (5:176-7).—Blooms April 30–May 19; 4 visitors observed, May 1–19; Ma, W.

Long-tongued Bees (4)—*Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♀; *Megachil.*: *Centrosmia* ♀, *se. Eucer.*: *Tetralonia dilecta* ♂ ♀, *fq.*

Baptisia leucantha (3:79).—Blooms June 10–September 8; 2 visitors observed, July 11 and often; Ma, W.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀, *se. ab.*

Lepidoptera (1)—*Papilion.*: *Callidryas* n.

Cassia chamaecrista (3:202-3).—Blooms June 28–October 5; 24 visitors observed, July 9–September 15; Ma, Y.

Long-tongued Bees (18, c)—*Ap.*: *Apis* fq; *Bomb.*: *Bombias auricomus* ♀ ♂, ab, *scutellaris* ♀ ♂, *separatus* ♂, ab, *Bombus americanorum* ♂, ab, *consimilis* ♂, *impatiens* ♀ ♂; *Megachil.* (♀): *Megachile brevis* fq, c and cutting petals, *generosa* ab, *mendica*, *petulans*, *Xanthosarus*; *Eucer.*: (♀), *Epimelissodes atripes* ab, *oligolege*, *Florilegus*, *Melissodes bimaiculata*, *comptoides* ab, *variabilis*; *Anthophor.*: *Amegilla* ♀, *oligolege*.

Short-tongued Bees (5, ♀, esp, n)—*Halict.*: *Agapostemon radia-*
tus, *texanus*, *Augochlora fervida*, *Chloralictus pilosus*, *versatus*.

Diptera (1)—*Syrph.*: *Milesia* fsp, n.

Petiolar nectaries.—On sixteen days, June 29–August 26, the following 67 visitors were observed:—

Ants (4 ♂)—*Formic.*: *Camponotus castaneus* *Formica fusca*, *schaufussi* fq, *Lasius* fq.

Short-tongued Bees (6)—*Halict.*: *Chloralictus sparsus* ♂ ♀, ab, *tegularis* ♂, *versatus* ♂ ♀, fq, *zephyrus* ♂, *Evylaeus pectoralis* ♂, *Oxystoglossa similis* ♂.

Other Hymenoptera (43)—*Sphec.*: *Chalybion*, *Chlorion*, *Sceliphron*; *Philanth.*: *Cerceris kennicottii*, *rufinoda*; *Eumen.*: *Leionotus foraminatus*; *Crabron.*: *Lindenius robertsoni type*, *Rhopalum scutellatum*; *Oxybel.*: *Notoglossa americana*, *frontalis*; *Pemphredon.*: *Psen*; *Larr.*: *Astatus unicolor*, *Lyroda*, *Notogonidea*, *Tachysphex acutus*, *belfragei* fq, *mundus*, *tarsatus*, *Tachytes maestus*, *mergus*, *obscurus*, *sericatus*; *Nysson.*: *Nysson rufiventris*, *Zanysson aurinotus* fq, *plesia*; *Pompil.*: *Arachnoproctonus*, *Poecilopompilus navus*, *Prionenemis*, *Priocnemoides fulvicornis*, *terminatus*, *Psammochares pretiosa*, *relativus*; *Tiphi.*: *Tipha punctata*, *robertsoni*; *Mutill.* (♂): *Mutilla hexagona* fq, *sayi*, *Sphaerophthalma*; *Chrysid.*: *Chrysis intricata*, *texana*, *Tetrachrysis montana*, *Holopyga*; *Chalcid.*: *Perilampus cyaneus*; *Bracon.*: *Apanteles terminalis*.

Diptera (13)—*Taban.*: *Tabanus*; *Syrph.*: *Mesogramma marginata*, *polita*, *Syritta*; *Conop.*: *Oncomyia*; *Tachin.*: *Chaetoplusia*, *Exorista confinis*, *Senotainia rubriventris*, *trilineata*; *Sarcophag.*: *Helicobia helicus*; *Musc.*: *Pseudopyrellia*; *Ortal.*: *Rivellia 4-fasciata*; *Oscin.*: *Chlorops assimilis*.

Hemiptera (1)—*Caps.*: *Lygus*.

Cassia marilandica (3: 203–4).—Blooms July 1–August 26; 3 visitors observed, July 21; Ma, Y.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♂, c.

Short-tongued Bees (2, ♀, esp, n)—*Halict.*: *Chloralictus sparsus*, *Oxystoglossa confusa*.

Petiolar nectaries.—Five visitors observed on July 21, 30.

Ants (4, ♀)—*Formic.*: *Camponotus herculeanus* 7, *Formica schaufussi* 1, *Lasius* 2; *Myrmic.*: *Cremastogaster* 3.

Coleoptera (1)—*Coccinell.*: *Coccinella 9-notata* 1.

Cercis canadensis (3:201-2).—Blooms April 4-May 17; 52 visitors observed, April 21-May 5; Mi, R.

Long-tongued Bees (22)—*Ap.*: *Apis* se, ab; *Bomb.*: (♀): *Bombias auricomus* ab, *separatus* se, *Bombus americanorum*, *consimilis*, *impatiens*; *Ceratin.*: *Zaodontomerus* ♂; *Megachil.* (se): *Centrosmia* ♂ ♀, *Ceratosmia* ♂ ♀, ab, *Dicceratosmia* ♀, *Osmia atriventris* ♀, *pumila* ♀, fq; *Nomad.*: *Gnathias euneatus* ♂, *Holonomada affabilis* ♀, *Nomada denticulata* ♂, *sayi* ♀, *Xanthidium luteoloides* ♀, *luteolum* ♂ ♀; *Eucer.*: *Tetralonia belfragei* ♂, *dilecta* ♂ ♀, se, in cop, ab; *Anthophor.*: *Anthophora* ♂ ♀, fq, *Emphoropsis* ♂.

Short-tongued Bees (19)—*Halict.* (♀): *Agapostemon radiatus*, *Augochlora viridula*, *Chloralictus pilosus*, *sparsus* se, ab, *versatus* se, fq, *zephyrus*, *Curtisapis coriacea*, *forbesii*, *Evylaeus arcuatus*, *Halictus lerouxii* se, fq, *Oxystoglossa confusa*, *pura*, *Seladonia* se, ab; *Collet.*: *Colletes inaequalis* ♂ ♀, se, ab; *Andren.*: *Andrena carlini* ♀, se, *mandibularis* ♀, se, *sayi* ♀, se, *Opandrena cressonii* ♂, *Trachandrena claytoniae* ♀, se.

Other Hymenoptera (1)—*Vesp.*: *Polistes variatus*.

Diptera (4)—*Empid.*: *Empis otiosa* fq, *Pachymeria*, *Rhamphomyia priapulus*; *Bombyli.*: *Bombylius major*.

Lepidoptera (5, n)—*Nymphal.*: *Vanessa atalanta*, *huntera*; *Lycaen.*: *Everes*; *Hesperid.*: *Thanaos icelus*, *juvenalis*.

Coleoptera (1)—*Cerambyc.*: *Molorehus* n.

Crotalaria sagittalis.—Blooms June 14-October 9; 8 visitors observed, June 16-July 9; Ma, Y.

Long-tongued Bees (6)—*Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Megachilini*: *Megachile brevis* ♂ ♀, se, ab, *generosa* ♀, *Sarogaster* ♀, se; *Coelioxyni*: *Coelioxys 8-dentata* ♀, *sayi* ♀.

Lepidoptera (2, n)—*Lycaen.*: *Everes*; *Papilion.*: *Pieris*.

Desmodium bracteosum (3:83).—Blooms July 11-August 29; 3 visitors observed, August 13, 22; Ma, R.

Long-tongued Bees (3, c)—*Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Megachile brevis* ♀; *Eucer.*: *Melissodes bimaculata* ♀.

Desmodium canadense (3:83).—Blooms June 13-September 7; 6 visitors observed, July 11-August 25; Ma, R.

Long-tongued Bees (6, c)—*Bomb.*: *Bombias separatus* ♂, *Bombus americanorum* ♀, fq; *Megachil.* (♀): *Megachile brevis* fq, *mendica*, *petulans*; *Eucer.*: *Melissodes bimaculata* ♀.

Desmodium canescens.—Blooms July 11–September 7; 1 visitor observed, September 1; Ma, R.

Long-tongued Bees (1)—*Megachil.*: *Megachile brevis* ♀, c.

Desmodium dillenii (3:83).—Blooms July 30–September 7; 5 visitors observed, August 2–September 2; Ma, R.

Long-tongued Bees (5, c)—*Bomb.*: *Bombus americanorum* ♂; *Megachil.* (♀): *Megachile brevis*, *mendica*, *petulans*; *Eucer.*: *Melissodes bimaculata* ♀.

Desmodium grandiflorum.—Blooms June 22–August 17; 1 visitor observed, July 9; Mi, W.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, c.

Desmodium illinoense.—Blooms June 5–August 10; 9 visitors observed, June 30–July 9; Ma, R.

Long-tongued Bees (7)—*Bomb.* (♂, c): *Bombias auricomus*, *Bombus americanorum*; *Megachil.*: *Osmiini*: *Alcidamea simplex* ♀, c; *Megachile brevis* fq, *mendica*, *Sarogaster*; *Coelioxyini*: *Coelioxys 8-dentata*, *explor*, n.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, esp, n.

Lepidoptera (1)—*Lycaen.*: *Everes*, *explor*, n.

Desmodium marilandicum (3:83).—Blooms August 22–September 3; 1 visitor observed, August 22; Ma, R.

Short-tongued Bees (1)—*Panurg.*: *Calliopsis andreniformis* ♀, c.

Desmodium paniculatum (3:83).—Blooms July 17–September 23; 8 visitors observed, August 7–September 10; Ma, R.

Long-tongued Bees (6, c)—*Bomb.*: *Bombus americanorum* ♂, *impatiens* ♀; *Megachil.* (♀): *Megachile brevis*, *mendica*, *petulans*; *Eucer.*: *Melissodes bimaculata* ♀.

Short-tongued Bees (2, ♀, c)—*Panurg.*: *Calliopsis andreniformis*; *Nomi.*: *Paranomia*.

Desmodium sessilifolium (3:83).—Blooms July 18–September 18; 2 visitors observed, August 14, 15; Ma, R.

Long-tongued Bees (1)—*Megachil.*: *Megachile brevis* ♀, c.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, esp, n.

Gleditsia triacanthos.—Blooms May 4–June 5, 13 visitors observed, May 24–June 3; Mis, Y.

Long-tongued Bees (2)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombias separatus* ♀, se.

Short-tongued Bees (6, ♀)—*Halict.*: *Agapostemon radiatus* se, *Chloralictus illinoensis*, *sparsus*; *Andren.*: *Andrena dunningii*, *Opandrena personata*, *Trachandrena claytoniae* se.

Diptera (5)—*Syrph.*: *Eristalis dimidiatus*, *Mesogramma geminata*. *Myiolepta varipes*; *Empid.*: *Rhamphomyia mutabilis*; *Anthomy.*: *Phorbia platura*.

Gymnocladus dioica (16:165).—Blooms May 7–June 1; 5 visitors observed, May 10; Ma, W.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (3)—*Bomb.*: *Bombus americanorum* ♀, fq, *impatiens* ♀, se; *Eucer.*: *Tetralonia dilecta* ♂.

Lepidoptera (1)—*Papilion.*: *Euphocades*.

Lespedeza capitata (10:231).—Blooms July 23–September 17; 4 visitors observed, August 14–26; Ma, R.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Megachile brevis* ♀, se.

Short-tongued Bees (1)—*Panurg.*: *Calliopsis andreniformis* ♂.

Lepidoptera (1)—*Papilion.*: *Eurymus* n.

Lespedeza procumbens (10:230).—Blooms July 17–September 21; 9 visitors observed, August 7–25; Ma, R.

Long-tongued Bees (4)—*Megachil.* (♀, se): *Megachile brevis*, *mendica*; *Pasit.*: *Holcopasites illinoensis* ♂ ♀, fq, type; *Eucer.*: *Melissodes bimaculata* ♀.

Short-tongued Bees (3)—*Halict.* (♀, se): *Chloralictus versatus*, *Oxystoglossa confusa*; *Panurg.*: *Calliopsis andreniformis* ♂ ♀.

Diptera (1)—*Bombyli.*: *Systoechus*.

Lepidoptera (1)—*Lycaen.*: *Everes* n.

Lespedeza virginica (10:230–1).—Blooms July 22–September 14; 21 visitors observed, August 7–September 7; Ma, R.

Long-tongued Bees (11)—*Bomb.*: *Bombus americanorum* ♂ ♀, se, fq; *Megachil.*: *Megachilini*: *Megachile brevis* ♂ ♀, se, ab, *petulans* ♀, se, *Xanthosarus* ♀; *Coelioxyni*: *Coelioxys germana* ♀; *Epeol.*: *Triepeolus concavus* ♀, *simplex* ♀; *Eucer.*: *Melissodes autumnalis* ♂, *comptoides* ♀, *nivea* ♂ ♀, se; *Anthophor.*: *Amegilla* ♀.

Short-tongued Bees (5)—*Halict.* (♂): *Odontalictus*, *Oxystoglossa confusa*, *similis*; *Collet.*: *Colletes americanus* ♂; *Panurg.*: *Calliopsis andreniformis* ♂ ♀.

Diptera (1)—*Anthomy.*: *Hylemyia laevis*.

Lepidoptera (4, n)—*Lycaen.*: Everes fq, Uranotes; *Papilion.*: Eurymus; *Hesper.*: Limochores taumas.

Melilotus alba (6:473-4).—Blooms June 1–October 18; 153 visitors observed, June 20–July 4; Pol (Mis), W.

Long-tongued Bees (23)—*Ap.*: Apis ab; *Bomb.*: Bombias auricomus ♀, scutellaris ♀, separatus ♀ ♂, fq, Bombus americanorum ♀ ♂, fq, Psithyrus variabilis ♀; *Ceratin.*: Ceratina ♀, sc; *Megachil.*: Trypetini: Neotrypetes truncatus ♀; Osmiini: Alcidamea simplex ♀, sc; Megachilini: Megachile brevis ♂ ♀, sc, fq, petulans ♂, 6-dentata ♂, Xanthosarus ♂; Coelioxyni: Coelioxys 8-dentata ♂ ♀, ab, rufitarsis ♀, sayi ♀; *Xylocop.*: Xylocopa ♂ ♀; *Nomad.*: Centrias americanus ♀, Holonomada affabilis ♂ ♀, superba ♀, fq; *Epeol.*: Epeolus bifasciatus ♂ ♀, ab; *Eucer.*: Tetralonia dilecta ♀; *Anthophor.*: Anthemoessa ♂.

Short-tongued Bees (21)—*Halict.*: Agapostemon radiatus ♀, viridulus ♀, Chloralictus albipennis ♀, sc, pilosus ♂, pruinosis ♂, versatus ♂ ♀, sc, ab, Evylaeus arcuatus ♀, se, pectoralis ♂, Halictus lerouxii ♂ ♀, se, parallelus ♂ ♀, Odontalictus ♀, se, Oxystoglossa similis ♂ ♀, Seladonia ♀; Sphecodini: Sphecodes arvensis ♂ ♀, fq, Sphecodium cressonii ♀; *Collet.*: Colletes eulophi ♂ ♀, fq, latitarsis ♂ ♀, willistonii ♀; *Nomi.*: Paranomia ♂ ♀; *Macropid.*: Macropis ♂ ♀, fq; *Panurg.*: Calliopsis andreniformis ♂ ♀, se.

Other Hymenoptera (52)—*Sphec.*: Ammobia ichneumonea, pennsylvanica, Isodontia apicalis, macrocephala, Priononyx atrata, thomae, Sceliphron, Spheg nigricans, pictipennis fq, procera, vulgaris; *Bembic.*: Bembix nubillipennis, Bicyrtes ventralis, Stizus fq; *Scoli.*: Elis 5-cincta; *Philanth.*: Cerceris bicornuta, clypeata, compacta, finitima, prominens, Philanthus ventilabris; *Vesp.*: Polistes rubiginosus fq, variatus; *Eumen.*: Ancistrocerus tigris, Eumenes belfragei, fraternus, Leionotus anormis fq, arvensis, clypeatus, dorsalis fq, foraminatus fq, fulvipes, histrionalis, megaera, ziziae, Monobia; *Crabron.*: Solenius fq; *Oxybel.*: Notoglossa americana; *Larr.*: Tachytes elongatus; *Pompil.*: Anoplius illinoensis, Batizonus, Ceropales bipunctata fq, elegans, fulvipes, Episyron, Lophopompilus atrox, Poecilopompilus navus, Pompiloides americanus, marginatus, Priocnemoides fulvicornis, Psammochares relativus; *Tiphi.*: Tiphia vulgaris.

Diptera (36)—*Taban.*: Chrysops striatus; *Stratiomy.*: Stratiomyia meigenii; *Syrph.*: Allograpta, Eristalis aeneus fq, latifrons, Helophilus latifrons, Platychirus quadratus, Sphaerophoria, Syritta, Syrphus americanus; *Empid.*: Parempis; *Conop.*: Conops brachyrhynchus fq, xanthopareus, Oncomyia, Physocephala texana, Stylo-

gaster biannulata, Zodion nanellum; *Tachin.*: Archytas analis, aterrima Belvosia bifasciata, Cistogaster occidua, Cyphocera ab, Euphorocera elaripennis, Linnaemyia ab, Ocyptera lata, fq, Pachyophthalmus floridensis, signatus, Senotainia rubriventris, Spallanzania, Trichophora, Winthemia; *Sarcophag.*: Helicobia helieis, Sarcophaga cimicis; *Musc.*: Morellia, Phormia regina, Pseudopyrellia.

Lepidoptera (14, n)—*Nymphal.*: Anosia, Vanessa atalanta, huntera; *Lycaen.*: Chrysophanus, Cyaniris, Strymon, Uranotes; *Papilion.*: Callidryas, Iphiclides, Papilio, Pontia; *Hesperi.*: Epargyreus, Limochores taumas; *Sesi.*: Sesia 6-fasciata.

Coleoptera (5)—*Cerambyc.*: Typocerus sinuatus; *Cureulion.*: Centrinus picumnus, scutellum-album fq; *Mordell.*: Mordella marginata; *Scarabae.*: Trichius piger.

Hemiptera (2)—*Lygae.*: Lygaeus; *Pentatom.*: Podisus.

Petalostemum candidum.—Blooms June 20–August 30; 30 visitors observed, July 8–19; Mis, W.

Long-tongued Bees (4)—*Ap.*: Apis; *Bomb.*: Bombias auricomus ♀, scutellaris ♀, separatus ♀ ♂, fq.

Short-tongued Bees (11)—*Halict.*: Agapostemon radiatus ♀, Augochlora fervida ♀, Chloralictus sparsus ♀, se, fq, versatus ♀, se, ab, Halictus lerouxii ♂ ♀, se, fq, parallelus ♂ ♀, fq, Odontalictus ♀, Oxystoglossa confusa ♀, se, similis ♀, fq, Seladonia ♂ ♀, fq; *Prosopid.*: Prosopis ziziae ♀.

Other Hymenoptera (7)—*Sphec.*: Ammobia ichneumonea, Priononyx atrata; *Bembic.*: Bicyrtes 4-fasciata; *Scoli.*: Elis interrupta, 5-cincta ab; *Philanth.*: Cereeris bicornuta, Philanthus ventilabris.

Diptera (7)—*Syrph.*: Allograpta, Tropicidia quadrata; *Mida.*: Midas clavatus; *Conop.*: Conops xanthopareus fq, Zodion nanellum; *Tachin.*: Archytas analis; *Musc.*: Compsomyia.

Lepidoptera (1)—*Lycaen.*: Everes.

Petalostemum purpureum (3: 81-2).—Blooms June 27–August 10; 94 visitors observed, July 1–August 2; Mas, R.

Long-tongued Bees (37)—*Ap.*: Apis se, ab; *Bomb.*: Bombias auricomus ♀ ♂, se, scutellaris ♀, se, fq, separatus ♂ ♀, se, ab, Bombus americanorum ♂ ♀ ♂, se, ab, impatiens ♀ ♂, se, fq, Psithyrus variabilis ♀; *Ceratin.*: Ceratina ♀, se; *Megachil.*: Trypetini: Neotrypetes truncatus ♀, se; Osmiini: Aleidamea simplex ♀, se, Hoplitis ♀, se, fq; Megachilini: Megachile brevis ♂ ♀, se, ab, 6-dentata ♂, Sayapis sayi ♀, Xanthosarus ♂ ♀, se, fq; Coelioxyni:

Coelioxys alternata ♀, *germana* ♀, *8-dentata* ♂ ♀, *fq*, *rufitarsis* ♂ ♀, *sayi* ♀; *Xylocop.*: *Xylocopa* ♀; *Epeol.*: *Epeolus bifasciatus* ♀, *Tripeolus concavus* ♂ ♀, *fq*, *concolor* ♂ ♀, *ab*, *lunatus* ♂, *remigatus* ♀; *Eucер.*: *Epimelissodes obliqua* ♂ ♀, *sc*, *fq*, *Melissodes agilis* ♂ ♀, *bimaculata* ♂ ♀, *sc*, *ab*, *comptoides* ♂ ♀, *fq*, *petalostemonis* ♀, *sc*, *fq*, *type*, *trinodis* ♂, *variabilis* ♂ ♀, *sc*, *fq*, *vernoniana* ♂ ♀, *Tetralonia dilecta* ♀, *sc*, *Xenoglossodes* ♀; *Anthophor.*: *Amegilla* ♂.

Short-tongued Bees (18)—*Halict.*: *Agapostemon radiatus* ♀, *splendens* ♀, *texanus* ♂ ♀, *viridulus* ♀, *sc*, *ab*, *Augochlora fervida* ♀, *sc*, *fq*, *Chloralictus albipennis* ♀, *c*, *fq*, *pilosus* ♀, *sc*, *pruinus* ♀, *versatus* ♀, *sc*, *fq*, *Haliectus lerouxii* ♂ ♀, *sc*, *fq*, *parallelus* ♂ ♀, *sc*, *ab*, *Odontalictus* ♀, *sc*, *Oxystoglossa confusa* ♀, *sc*, *similis* ♀, *sc*, *ab*, *Selandonia* ♀, *sc*, *ab*; *Collet.*: *Colletes albescens* ♀, *sc*, *oligolege*, *robertsonii* ♂ ♀, *sc*, *oligolege*, *type*; *Nomi.*: *Paranomia* ♂.

Other Hymenoptera (15)—*Sphex.*: *Ammobia ichneumonea*, *Priononyx atrata*, *thomae*, *Sphex gracilis*, *nigricans* *fq*, *pictipennis*, *procera*, *vulgaris*; *Bembic.*: *Bembix nubillipennis*, *spinolae*; *Scoli.*: *Campsomeris*, *Elis 5-cincta* *fq*; *Philanth.*: *Cerceris bicornuta*, *Philanthus ventilabris*; *Eumen.*: *Eumenes fraternus*.

Diptera (12)—*Syrph.*: *Allograpta*, *Eristalis latifrons*, *Helophilus latifrons*, *Mesogramma marginata*, *Sphaerophoria*, *Tropidia quadrata*; *Bombyli.*: *Exoprosopa fasciata*, *Systoechus*; *Conop.*: *Oncomyia*, *Physocephala texana*, *Zodion obliquefasciatum*; *Sarcophag.*: *Sarcophaga cimbicis*.

Lepidoptera (6)—*Lycaen.*: *Everes*; *Papilion.*: *Eurymus*, *Zerene*; *Hesperid.*: *Limochores taumas*, *Pholisora catullus*, *Polites*.

Coleoptera (4)—*Cerambyc.*: *Typocerus sinuatus*; *Chrysomel.*: *Diabrotica 12-punctata*; *Melo.*: *Epicauta pennsylvanica*, *trichrus*.

Hemiptera (2)—*Caps.*: *Calocoris*; *Pentatom.*: *Euschistus ictericus*.

Psoralea onobrychis (3: 79–80).—Blooms May 27–July 31; 55 visitors observed, June 15–July 16; Mas, R.

Long-tongued Bees (27)—*Ap.*: *Apis* *fq*; *Bomb.*: *Bombias auricomus* ♀, *scutellaris* ♀, *separatus* ♀ ♀, *sc*, *fq*, *Bombus americanorum* ♂ ♀, *impatiens* ♀; *Ceratin.*: *Ceratina* ♀; *Stelid.*: *Anthidium psoraleae* ♂ ♀, *fq*, *type*; *Megachil.*: *Osmiini*: *Alcidamea simplex* ♀, *sc*, *Diceratosmia* ♀, *Osmia atriventris* ♀; *Megachilini*: *Chelostomoides* ♂ ♀, *sc*, *ab*, *type*, *Megachile addenda* ♂ ♀, *sc*, *ab*, *brevis* ♂ ♀, *sc*, *ab*, *generosa* ♂ ♀, *sc*, *fq*, *mendica* ♂ ♀, *sc*, *ab*, *petulans* ♂, *fq*, *Oligotropus* ♂, *ab*, *Xanthosarus* ♂ ♀; *Coelioxysiini*: *Coelioxys germana* ♂, *modesta* ♂ ♀, *fq*, *8-dentata* ♂ ♀, *fq*, *sayi* ♂ ♀, *fq*; *Epeol.*: *Epeolus interruptus* ♀, *type*; *Eucер.*: *Florilegus* ♂, *Melissodes bimaculata* ♂ ♀, *Tetralonia dilecta* ♀.

Short-tongued Bees (8)—*Halict.*: *Agapostemon radiatus* ♂ ♀, se, *Curtisapis coriacea* ♀, *Evylaeus arcuatus* ♀, *Halictus lerouxii* ♀, *Seladonia* ♂ ♀, in cop; *Collet.*: *Colletes brevicornis* ♀, fq, *eulophi* ♂ ♀, se, ab, in cop; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, se, ab, in cop.

Other Hymenoptera (7)—*Sphec.*: *Priononyx atrata*, *thomae*, *Sphex gracilis*; *Scoli.*: *Elis 5-cincta*; *Eumen.*: *Leionotus arvensis*, *dorsalis*, *Pterochilus*.

Diptera (7)—*Syrph.*: *Tropidia mamillata*; *Bombyli.*: *Anthrax parvicornis*, *sinuosa* fsp, *Bombylius atriceps*, *Exoprosopa fasciata*; *Conop.*: *Physocephala tibialis*, *Stylogaster biannulata*.

Lepidoptera (6, n)—*Papilion.*: *Laertias*, *Pontia*; *Hesper.*: *Epargyreus*, *Thanaos juvenalis*; *Sphing.*: *Hemaris thysbe*; *Noctu.*: *Schinia*.

Robinia pseudacacia (int).—Blooms April 21–May 28; 11 visitors observed, May 9–25; Ma, R.

Birds (1)—*Trochil.*: *Trochilus* ab.

Long-tongued Bees (7)—*Ap.*: *Apis*; *Bomb.* (♀): *Bombias auricomus* fq, *seutellaris*, *separatus*, *Bombus americanorum* fq, *impatiens* ab; *Eucer.*: *Tetralonia dilecta* ♀.

Lepidoptera (3, n)—*Nymphal.*: *Anosia*; *Papilion.*: *Iphiclides*; *Sphing.*: *Deilephila*.

Strophostyles helvola (3:199).—Blooms July 7–October 19; 8 visitors observed, July 31–August 26; Ma, R.

Long-tongued Bees (8)—*Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Megachile brevis* ♂ ♀, se, fq, *generosa* ♂ ♀, se, ab, *mendica* ♂ ♀, *petulans* ♀, se, fq, *strophostylis* ♀, se, fq, *oligolege*, *type*, *Oligotropus* ♂, *Xanthosarus* ♀.

Extra-floral nectaries.—The following 45 species were taken on the extra-floral nectaries, July 31–September 8:

Ants (3, ♀)—*Formic.*: *Formica fusca* ab, *schaufussi*, *Lasius*.

Short-tongued Bees (2, ♀)—*Halict.*: *Oxystoglossa confusa*; *Sphecodini*: *Sphecodes arvensis*.

Other Hymenoptera (23)—*Sphec.*: *Chalybion*, *Seeliphron*; *Philanth.*: *Cereeris clypeata*, *finitima*, *kennicottii* fq, *Philanthus punctatus*; *Vesp.*: *Polistes variatus*, *Vespula germanica*; *Eumen.*: *Leionotus vagus*; *Oxybel.*: *Oxybelus 4-notatus*; *Trypoxyl.*: *Trypoxylon frigidum*; *Larr.*: *Astatus unicolor*, *Tachysphex mundus*; *Nysson.*: *Zanysson aurinotus*; *Pompil.*: *Ageniella longula*, *Lophopompilus atrox*; *Mutill.* (♂): *Mutilla serupea*, *Sphaerophthalma*; *Chrysid.*: *Hedychrum parvum*, *Tetrachrysis venusta*; *Bracon.*: *Agathis vulgaris*; *Ichneumon.*: *Diplazon*, *Limneria fura*.

Diptera (15)—*Syrph.*: *Mesogramma marginata*; *Tachin.*; *Euphorocera claripennis*, *Paradidyma singularis type*; *Sarcophag.*: *Helicobia helices*, 4-setosa, *Metoposarcophaga*, *Sarcophaga assidua*, *hunteri*, *marginata*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Coenosia antica*; *Agromyz.*: *Lobioptera*; *Drosophil.*: *Drosophila*; *Ortal.*: *Camptoneura*, *Rivellia 4-fasciata*; *Seps.*: *Sepsis*.

Coleoptera (1)—*Coccinell.*: *Coccinella 9-notata*.

Hemiptera (1)—*Caps.*: *Lygus*.

Strophostyles pauciflora.—Blooms July 11–October 15; 3 visitors observed, August 14, September 7, October 3; Ma, R.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Megachile brevis* ♀.

Short-tongued Bees (1)—*Panurg.*: *Calliopsis andreniformis* ♀.

Extra-floral nectaries.—Three visitors observed, July 29, September 7.

Ants (1)—*Formic.*: *Formica schaufussi* ♀, 7.

Short-tongued Bees (2)—*Halict.*: *Chloralictus sparsus* ♂, 2, *versatus* ♂ ♀, 6.

Stylosanthes biflora (16:163–5).—Blooms June 8–September 9; 3 visitors observed, July 2–11; Ma, Y.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

Short-tongued Bees (1)—*Panurg.*: *Calliopsis andreniformis* ♀, fq.

Lepidoptera (1)—*Papilion.*: *Eurema* n.

Tephrosia virginiana (3:82).—Blooms June 10–July 2; 5 visitors observed, June 15–29; Ma, W.

Long-tongued Bees (5)—*Megachil.*: *Chelostomoides* ♀, sc, *Megachile addenda* ♂ ♀, sc, ab, *brevis* ♀, sc, *mendica* ♀, *petulans* ♂ ♀.

Trifolium hybridum (int).—Blooms May 14–June 25; 16 visitors observed, June 6–18; Mas, W.

Long-tongued Bees (6)—*Ap.*: *Apis* sc, fq; *Megachil.* (♀, sc): *Alcidamea simplex* fq, *Diceratomia*, *Osmia cordata*; *Nomad.*: *Holonomada affabilis* ♀; *Epeol.*: *Epeolus interruptus* ♀.

Short-tongued Bees (5)—*Halict.* (♀): *Chloralictus versatus* sc, *Odontalictus*, *Oxystoglossa similis* sc, *Seladonia* sc; *Panurg.*: *Calliopsis andreniformis* ♂ ♀.

Other Hymenoptera (1)—*Sphec.*: *Priononyx atrata*.

Diptera (1)—*Conop.*: *Zodion fulvifrons* n.

Lepidoptera (3, n)—*Nymphal.*: *Charidryas*; *Lycaen.*: *Chrysophanus*; *Hesperi.*: *Ancyloxypha*.

Trifolium pratense (int, 5: 177-8).—Blooms April 26–November 1; 42 visitors observed, May 24–September 11; Mas, R.

Birds (1)—*Trochil.*: Trochilus.

Long-tongued Bees (18)—*Bomb.*: *Bombias auricomus* ♂ ♀, *scutellaris* ♀, *separatus* ♂ ♀ ♀, se, ab, *Bombus americanorum* ♂ ♀ ♀, se, ab, *consimilis* ♀, se, *impatiens* ♀, *ridingsii* ♂, *Psithyrus laboriosus* ♀, *variabilis* ♀, fq; *Stelid.*: *Anthidium psoraleae* ♂ ♀, se, fq; *Megachil.* (♀): *Osmiini*: *Aleidamea simplex*, *Osmia cordata* se; *Megachilini*: *Megachile brevis* se; *Eucer.*: *Melissodes bimaculata* ♂, *Tetralonia dilecta* ♂ ♀, se, fq; *Anthophor.*: *Amegilla* ♀, *Anthemoessa* ♂ ♀, *Anthophora* ♀, se.

Short-tongued Bees (2, ♀, n)—*Halict.*: *Halictus lerouxii* f; *Panurg.*: *Calliopsis andreniformis* c.

Diptera (1)—*Bombyli.*: *Exoprosopa fasciata*.

Lepidoptera (20, n)—*Nymphal.*: *Anosia*, *Argynnis*, *Vanessa atalanta*, *cardui*, *huntera* fq; *Lycaen.*: *Everes*; *Papilion.*: *Callidryas*, *Eurymus*, *Heraclides*, *Iphiclides*, *Laertias*, *Papilio*, *Pieris*, *Pontia*, *Xanthidia*; *Hesperi.*: *Epargyreus* ab, *Limochores taumas*, *Polites*, *Thorybes pylades*; *Sphing.*: *Hemaris axillaris*.

Trifolium reflexum.—Blooms May 22–June 22; 2 visitors observed, June 13; Mas, W.

Long-tongued Bees (1)—*Megachil.*: *Osmia atriventris* ♀.

Lepidoptera (1)—*Lycaen.*: *Cyaniris* n.

Trifolium repens (int).—Blooms April 23–October 11; 80 visitors observed, May 12–July 14; Mas, W.

Long-tongued Bees (33)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias separatus* ♀, se, *Bombus americanorum* ♀ ♀, se, *impatiens* ♀ ♀, *ridingsii* ♀, se, *Psithyrus variabilis* ♀; *Ceratin.*: *Ceratina* ♀, se; *Stelid.*: *Anthidium psoraleae* ♂ ♀, se, fq; *Megachil.*: *Trypetini*: *Neotrypetes barbatus* ♂; *Osmiini*: *Aleidamea simplex* ♂ ♀, se, ab, *Diceratosmia* ♀, se, ab, *Hoplitis* ♀, se, fq, *Osmia atriventris* ♀, se, fq, *collinsiae* ♀, se, *cordata* ♀, *distincta* ♀, se, *pumila* ♀, se, ab; *Megachilini*: *Anthemis* ♀, *Megachile brevis* ♂ ♀, se, fq, *generosa* ♂, *mendica* ♂; *Coelioxyni*: *Coelioxys 8-dentata* ♂ ♀, fq, *sayi* ♂, fq; *Nomad.*: *Centrias americanus* ♀, *Holonomada affabilis* ♂ ♀, fq, *superba* ♀, fq; *Epeol.*: *Epeolus bifasciatus* ♂, *interruptus* ♂ ♀, *Triepeolus remigatus* ♂; *Eucer.*: *Tetralonia dilecta* ♂, *rosae* ♀; *Anthophor.*: *Anthemoessa* ♂, *Anthophora* ♀, se.

Short-tongued Bees (15)—*Halict.*: *Agapostemon radiatus* ♀, se, fq, *viridulus* ♀, se, *Augochlora fervida* ♀, *viridula* ♀, *Chloralictus pilosus* ♀, se, *versatus* ♀, se, *Curtisapis coriacea* ♀, se, fq, *Halictus*

lerouxii ♂ ♀, sc, fq, parallelus ♀, sc, Odontalictus ♀, sc, Oxystoglossa confusa ♂ ♀, fq, similis ♀, Seladonia ♂ ♀, sc, fq; *Andren.*: *Opan-drena cressonii* ♀, sc; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, sc, fq.

Other Hymenoptera (6)—*Sphec.*: *Priononyx atrata*, *Sphex nigricans*, *pictipennis*, *procera*; *Bembic.*: *Microbembex*; *Scoli.*: *Campsomeris*.

Diptera (9)—*Empid.*: *Parempis*; *Bombyli.*: *Bombylius atriceps*, *Systoechus*, *Thlipsogaster*; *Conop.*: *Physocephala texana*, *tibialis*, *Stylogaster biannulata*, *Zodion fulvifrons*; *Tachin.*: *Archytas analis*.

Lepidoptera (17, n)—*Nymphal.*: *Charidryas*, *Euptoieta*, *Vanessa huntera*; *Lycaen.*: *Cyaniris*, *Everes*; *Papilion.*: *Eurymus*, *Iphiclides*, *Pieris*, *Pontia*; *Hesperid.*: *Ancyloxypha*, *Epargyreus*, *Limochores taumas* fq, *Pholisora catullus*, *Polites*, *Thanaos juvenalis*, *Thorybes pylades*; *Noctu.*: *Plusia simplex*.

LILIACEAE

Asparagus officinalis (int).—7 visitors observed, May 11–August 5; Ma, Y.

Long-tongued Bees (2)—*Ap.*: *Apis*; *Megachil.*: *Anthemois* ♂ ♀, sc, ab.

Short-tongued Bees (3, ♀)—*Halict.*: *Chloralictus versatus* sc, *zephyrus* sc, *Oxystoglossa similis* c.

Camassia esculenta (9: 266–7).—Blooms April 22–May 28; 48 visitors observed, April 29–May 24; Mi (Ma), R.

Long-tongued Bees (15)—*Ap.*: *Apis* ab; *Bomb.* (♀): *Bombias auricomus*, *separatus*, *Bombus americanorum*, *impatiens*; *Ceratin.*: *Ceratina* ♂, *Zaodontomerus* ♂; *Megachil.*: *Osmiini*: *Ceratosmia* ♀, *Osmia pumila* ♂ ♀; *Megachilini*: *Megachile mendica* ♂ ♀; *Nomad.*: *Centrias americanus* ♂, *Holonomada affabilis* ♀, *superba* ♂ ♀, fq; *Eucer.*: *Tetralonia belfragei*, ♂, *dilecta* ♂ ♀, fq.

Short-tongued Bees (11, ♀)—*Halict.*: *Agapostemon viridulus*, *Chloralictus pilosus* sc, ab, *pruinus* sc, fq, *versatus* sc, fq, *Curtisapis forbesii*, *Evylaeus pectoralis* fq, *Halictus lerouxii* sc, *Odontalictus* sc, *Oxystoglossa confusa*, *similis*, *Seladonia* sc, ab.

Other Hymenoptera (4)—*Vesp.*: *Polistes variatus*; *Eumen.*: *Ancistrocerus tigris*, *Leionotus clypeatus*; *Pompil.*: *Anoplius illinoensis*.

Diptera (12)—*Syrph.*: *Eristalis dimidiatus*, *Orthoneura nitida*, *pictipennis*, *Paragus bicolor*, *Syrpitta*; *Tachin.*: *Linnaemyia*; *Sarcophag.*: *Cynomyia*, *Helicobia helicis*; *Musc.*: *Lucilia sericata*, *Phormia regina*; *Anthomy.*: *Phorbia acra*, *platura*.

Lepidoptera (5)—*Nymphal.*: Charidryas, Vanessa atalanta, huntera; *Papilion.*: Eurymus fq; *Hesperi.*: Pholisora catullus.

Coleoptera (1)—*Coccinell.*: Hippodamea 15-maculata.

Erythronium albidum (5: 69–71).—Blooms March 17–May 2; 28 visitors observed, March 24–April 22; Mi, W.

Long-tongued Bees (11)—*Ap.*: Apis se, ab; *Bomb.*: Bombus impatiens ♀; *Ceratin.*: Ceratina ♂; *Megachil.*: Centrosmia ♂, Ceratostmia ♂, fq, Osmia collinsiae ♂, pumila ♂ ♀, ab; *Nomad.* (♂): Xanthidium dentariae, luteoloides, luteolum; *Eucer.*: Tetralonia belfragei ♂, fq.

Short-tongued Bees (9)—*Halict.* (♀): Chloralictus pilosus, versatus se, *type*, Halictus lerouxii, Seladonia; *Collet.*: Colletes inaequalis ♂, ab; *Andren.*: Andrena carlini ♂ ♀, se, ab, erythronii ♂ ♀, se, ab, *type*, sayi ♂ ♀, se, Trachandrena mariae ♀.

Diptera (4)—*Syrph.*: Brachypalpus frontosus f, n, Eristalis dimidiatus; *Bombyli.*: Bombylius major; *Musc.*: Pseudopyrellia fq, n.

Lepidoptera (3)—*Papilion.*: Eurymus, Pieris; *Hesperi.*: Thanaos juvenalis.

Hemiptera (1)—*Caps.*: Lygus n.

Lilium superbum.—Blooms June 15–July 17; 3 visitors observed, July 2; Ma, R.

Lepidoptera.—*Nymphal.*: Anosia, Argynnis; *Papilion.*: Euphœades.

Melanthium virginicum (9: 273–4).—Blooms June 12–July 11; 30 visitors observed, June 27–July 5; Mi, W.

Short-tongued Bees (1)—*Halict.*: Chloralictus versatus ♀, n.

Other Hymenoptera (3)—*Sphec.*: Ammobia ichneumonea; *Chalcid.*: Perilampus triangularis n; *Tenthredin.*: Hylotoma humeralis.

Diptera (19)—*Stratiomy.*: Stratiomyia meigenii; *Syrph.* (n): Mesogramma marginata, Sphaerophoria, Syritta; *Empid.*: Parempis n; Tachin.: Archytas aterrima, Cistogaster oecidua, pallasii, Euphorocera claripennis, Linnaemyia, Paradidyma n, Trichopoda penripes; *Sarcophag.*: Sarcophaga cimbicis; *Musc.*: Lucilia caesar, Musca, Pseudopyrellia; *Anthomy.*: Anthomyiella n, Calythea n; *Oscin.*: Chlorops mellea n.

Lepidoptera (1)—*Lycaen.*: Cyaniris n.

Coleoptera (6)—*Chrysomel.*: Diabrotica atripennis n; *Curculion.*: Centrinites fq, n; *Lampyr.*: Photinus; *Mordell.*: Mordella marginata n, melaena fq, n; *Scarabae.*: Trichius piger, fq.

Nothoscordum bivalve (9: 266).—Blooms April 9–May 18; 19 visitors observed, April 20–May 9; Mi, W.

Long-tongued Bees (9)—*Megachil.*: *Osmia atriventris* ♂; *Nomad.*: *Centrias americanus* ♂, *Gnathias cuneatus* ♀, *ovatus* ♂ ♀, fq, *Holonomada superba* ♂, fq, *Nomada cressonii* ♂ ♀, ab, *type*, *parva* ♂, fq, *sayi* ♀, fq, *Xanthidium luteoloides* ♂.

Short-tongued Bees (3, ♀)—*Halict.*: *Chloralictus versatus* sc, fq, *Oxystoglossa similis* ab; *Andren.*: *Andrena nothoscordi*, sc, *type*, *oligolege*.

Diptera (3)—*Syrph.*: *Mesogramma marginata*, *Sphaerophoria* fq; *Bombyli.*: *Bombylius pulchellus*.

Lepidoptera (4)—*Lycaen.*: *Everes*; *Papilion.*: *Eurymus*, *Pieris*; *Noctu.*: *Plusia simplex*.

Polygonatum commutatum (9: 268–9).—Blooms May 11–June 23; 7 species and 23 individuals observed, May 23–June 9; Ma, W.

Birds (1: 4)—*Trochil.*: *Trochilus* 4.

Long-tongued Bees (5: 18)—*Bomb.*: *Bombus americanorum* ♀, 5, *consimilis* ♀, sc, 4; *Ceratin.*: *Ceratina* ♀, sc, 2; *Anthophor.*: *Anthemossa* ♂ ♀, sc, 4, *Anthophora* ♀, sc, 3.

Short-tongued Bees (1: 1)—*Halict.*: *Oxystoglossa confusa* ♀, c, n.

Smilacina racemosa (9: 270).—Blooms May 7–30; 21 species and 44 individuals observed, May 8–23; Mi, W.

Long-tongued Bees (1: 1)—*Ap.*: *Apis* c, 1.

Short-tongued Bees (7: 13)—*Halic.* (♀): *Chloralictus obscurus* c, 2, *sparsus* c, 2, *versatus* c, 1, *zephyrus* 1, *Evyllaenus pectoralis* c, 4, *4-maculatus* c, 2, *Oxystoglossa pura* sc, 1.

Diptera (8: 19)—*Culic.*: *Culex nigripes* 1; *Syrph.*: *Chilosia cyanescens* f, 1, *Criorhina decora* 1, *Volucella vesiculosa* 5; *Empid.*: *Empis humilis* 3, *levicula* 1; *Tachin.*: *Siphona* 4; *Musc.*: *Lucilia caesar* 3.

Coleoptera (5: 11)—*Anthic.*: *Corphyra terminalis* 1; *Bruch.*: *Bruchus mimus* 5; *Mordell.*: *Mordellistena biplagiata* 3; *Scarabae.*: *Trichius affinis* 1, *Valgus* 1.

Smilacina stellata (9: 269–70).—Blooms April 25–May 12; 16 species and 28 individuals observed, April 30; Mi, W.

Long-tongued Bees (2: 2, ♂)—*Ceratin.*: *Zaodontomerus* 1; *Nomad.*: *Nomada cressonii* 1.

Short-tongued Bees (12: 20, ♀).—*Halic.*: *Angochlora viridula* sc, 1, *Chloralictus obscurus* sc, 1, *smilacinae* sc, 1, *type*, *sparsus* sc, 1, *Evyllaenus 4-maculatus* sc, 5, *Halictus lerouxii* sc, 1, *Oxystoglossa*

confusa se, 4, *pura* se, 1, *similis* se, 1; Sphecodini: Sphecodium *smilacinae* 1, *type*; *Andren.*: *Andrena carlini* 1, *Opandrena cressonii* se, 2.

Diptera (2: 6)—*Empid.*: *Empis humilis* 5; *Bombyli.*: *Bombylius major* 1.

Smilax herbacea.—Blooms May 24–July 6; 9 species and 19 individuals observed, May 30, June 4, 6, 8; Mi, Y.

On staminate flowers:—

Long-tongued Bees (1: 1)—*Ap.*: *Apis* c, 1.

Short-tongued Bees (3: 11, ♀, se)—*Halict.*: *Chloralictus versatus* 3, *Oxystoglossa confusa* 1, *similis* 7.

Diptera (2: 4)—*Sarcophag.*: *Sarcophaga cimbicis* 3; *Musc.*: *Lucilia caesar* 1.

Lepidoptera (1: 1)—*Nymphal.*: *Neonympha* 1.

Coleoptera (2: 2, f, n)—*Cerambyc.*: *Euderees* 1; *Scarabae.*: *Euphoria fulgida* 1.

Smilax hispida.—Blooms May 3–June 3; 16 visitors observed, May 17–June 3; Mi, Y.

Long-tongued Bees (5)—*Ap.*: *Apis* se; *Bomb.*: *Bombus impatiens* ♀; *Ceratin.*: *Ceratina* ♀, se; *Megachil.*: *Osmia pumila* ♀, se; *Nomad.*: *Nomada parva* ♂.

Short-tongued Bees (6, ♀)—*Halict.*: *Agapostemon radiatus* c, *Chloralictus tegularis* se, *zephyrus* c, *Evyllaecus pectoralis* c, *Oxystoglossa confusa* se; *Andren.*: *Opandrena cressonii* se.

Diptera (5)—*Syrph.* (f): *Allograpta*, *Mesogramma geminata*, *Syrphus americanus*; *Empid.*: *Empis loripedis*; *Conop.*: *Conops brachyrrhynchus*.

Stenanthium angustifolium.—Blooms June 24–July 24; 4 visitors observed, July 14, 16; Mi, W.

Short-tongued Bees (2)—*Halict.*: *Chloralictus sparsus* ♀; *Prosopid.*: *Prosopis ziziae* ♂.

Diptera (2)—*Syrph.*: *Syrpitta*; *Tachin.*: *Ocyptera lata*.

Trillium sessile (9: 271–3).—Blooms April 24–May 15; 1 visitor observed, April 29, Mi, R.

Coleoptera (1)—*Curculion.*: *Centrinites* f, 10.

Uvularia grandiflora (9: 270–1).—Blooms April 12–May 11; 8 species and 19 individuals observed, April 17–29; Ma, Y.

Long-tongued Bees (5: 9, ♀)—*Bomb.*: *Bombus separatus* 1, *Bombus americanorum* 2, *impatiens* 1, *ridingsii* 4; *Megachil.*: *Osmia atriventris* 1.

Short-tongued Bees (3: 10)—*Andren.*: *Andrena carlini* ♂ ♀, sc, 7, *mandibularis* ♀, sc, 2, *pruni* ♂, 1.

LOBELIACEAE

Lobelia cardinalis (4: 68-9).—Blooms August 3-September 15; 6 visitors observed, August 18-September 2; Ma (O), R.

Birds (1)—*Trochil.*: *Trochilus* ab.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♂, fq, s, through slits, n.

Short-tongued Bees (♀, c, n)—*Halict.*: *Chloralictus versatus*, *Oxystoglossa confusa*.

Lepidoptera (2)—*Papilion.*: *Euphœades*, *Laertias*.

Lobelia cardinalis × *siphilitica* (4: 69).—Two visitors observed, August 21.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

Lobelia inflata.—Blooms July 7-November 19; 2 visitors observed, August 15; Mi, W.

Short-tongued Bees (2, ♀)—*Halict.*: *Chloralictus sparsus*, *Oxystoglossa confusa*.

Lobelia leptostachys (4: 67-8).—Blooms June 30-August 17; 22 visitors observed, July 3-31; Mas, W.

Long-tongued Bees (14)—*Ap.*: *Apis*; *Bomb.* (♂): *Bombias separatus*, *Bombus americanorum*; *Ceratin.*: *Ceratina* ♀; *Stelid.*: *Anthidium psoraleae* ♂ ♀; *Megachil.*: *Osmiini*: *Hoplitis* ♀; *Megachilini*: *Chelostomoides* ♂, *Megachile brevis* ♂ ♀, sc, *petulans* ♂, fq, *Oligotropus* ♂; *Coelioxyni*: *Coelioxys 8-dentata* ♂, *rufitarsis* ♀; *Eucer.*: *Epimelissodes obliqua* ♂, *Melissodes bimaculata* ♂.

Short-tongued Bees (4)—*Halict.*: *Agapostemon viridulus* ♀, *Chloralictus pilosus* ♀, c, n, *Oxystoglossa confusa* ♂ ♀, *Seladonia* ♂.

Diptera (1)—*Bombyli.*: *Systoechus*.

Lepidoptera (3)—*Lycaen.*: *Everes*; *Hesperi.*: *Limochores taumas*, *Thanaos juvenalis*.

Lobelia siphilitica (4: 68).—Blooms August 12-October 16; 10 visitors observed, August 21-September 17; Ma, R.

Long-tongued Bees (5)—*Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♀ ♂, sc, ab, *consimilis* ♂, sc, *impatiens* ♂, sc; *Anthophor.*: *Amegilla* ♀.

Short-tongued Bees (3, ♀, n)—*Halict.*: *Chloralictus versatus* c, *Curtisapis coriacea*, at slits, *Oxystoglossa confusa* c.

Lepidoptera (2)—*Nymphal.*: *Anosia*; *Papilion.*: *Laertias*.

Lobelia spicata (4:67).—Blooms May 20–June 30; 11 visitors observed, May 31–June 12; Mas, W.

Long-tongued Bees (4, ♀)—*Ceratin.*: *Ceratina*; *Megachil.*: *Aleidamea simplex*, *Megachile brevis*; *Eucer.*: *Tetralonia dilecta*.

Lepidoptera (7)—*Lycacn.*: *Chrysophanus*; *Papilion.*: *Pieris*, *Pontia*; *Hesper.*: *Ameloxipha*, *Limochores taumas*, *Pholisora catullus*, *Polites*.

LYTHRACEAE

Ammannia coccinea.—Blooms June 25–October 6; 12 species and 21 individuals taken, July 31–August 30; Mi, R.

Long-tongued Bees (1:1)—*Ceratin.*: *Ceratina* ♀, se, 1.

Short-tongued Bees (5:12)—*Halict.* (♀): *Chloralictus pilosus* se, 2, *sparsus* 1, *versatus* se, 7, *Oxystoglossa similis* se, 1; *Panurg.*: *Calliopsis andreniformis* ♀, 1.

Diptera (3)—*Syrph.*: *Mesogramma marginata* 1, *Syritta* 1; *Tachin.*: *Spallanzania* 1.

Lepidoptera (3)—*Lycacn.*: *Everes* 1; *Papilion.*: *Eurema* 1, *Pontia* 1.

Cuphea petiolata.—Blooms July 15–October 26; 3 visitors observed, July 29–September 4; Ma, R.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♂ ♀, ab; *Eucer.*: *Melissodes bimaculata* ♂ ♀, fq.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa similis* ♀, se, n.

Lythrum alatum (5:179).—Blooms May 27–September 5; 55 visitors observed, June 18–August 28; Mas, R.

Long-tongued Bees (24)—*Ap.*: *Apis* fq; *Bomb.*: *Bombias separatus* ♀ ♀, *Bombus impatiens* ♀, se, fq; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Osmiini*: *Aleidamea simplex* ♀; *Megachilini*: *Megachile brevis* ♂ ♀, se, ab, *mendica* ♂ ♀, *petulans* ♂, *Oligotropus* ♂, *Sayapis sayi* ♂; *Coelioxyni*: *Coelioxys modesta* ♀, *8-dentata* ♂ ♀, fq; *Epcol.*: *Epeolus bifasciatus* ♂ ♀, *Triepeolus concavus* ♂, *concolor* ♂ ♀; *Eucer.*: *Epimelissodes atripes* ♀, *obliqua* ♂, *Florilegus* ♂ ♀, *Melissodes bimaculata* ♂, *coloradensis* ♂, *comptoides* ♂ ♀, se, fq, *type*, *petalostemonis* ♀, se, *variabilis* ♂, *Tetralonia dilecta* ♂ ♀.

Short-tongued Bees (7)—*Halict.*: *Agapostemon radiatus* ♂ ♀, fq, *viridulus* ♂ ♀, *Chloralictus versatus* ♀, se, *Odontalictus* ♀, se, *Oxystoglossa confusa* ♂, *Seladonia* ♂; *Panurg.*: *Calliopsis andreniformis* ♀, se.

Other Hymenoptera (3)—*Sphcc.*: *Priononyx atrata*, *Sphex nigricans* fq, *procera*.

Diptera (9)—*Syrph.*: *Eristalis latifrons*, *Helophilus latifrons* f, n, *Tropidia mamillata* f, n; *Bombyli.*: *Exoprosopa emarginata*, *fasciata* fq, *fascipennis*, *Geron rufipes*, *Systoechus*; *Tachin.*: *Archytas analis*.

Lepidoptera (12)—*Nymphal.*: *Charidryas*, *Vanessa cardui*; *Lycaen.*: *Chrysophanus*; *Papilion.*: *Eurema*, *Eurymus* fq, *Pieris*, *Pontia* fq; *Hesper.*: *Ancyloxypha*, *Hesperia*, *Limochores taumas*, *Pholisora catullus* fq, *Polites* fq.

MALVACEAE

Abutilon theophrasti (int, 6: 269-70).—Blooms June 26-October 14; 23 visitors observed, August 15-September 19; Ma, Y.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (15)—*Ap.*: *Apis*; *Bomb.*: *Bombias separatus* ♂, ♀, se, fq, *Bombus americanorum* ♂ ♀, fq; *Megachil.*: *Megachile brevis* ♀, *Xanthosarus* ♀, se; *Eucer.*: *Epimelissodes obliqua* ♂, *Melissodes agilis* ♂, *bimaculata* ♀, se, fq, *boltoniae* ♀, *comptoides* ♀, se, *nivea* ♀, se, *petalostemonis* ♀, *simillima* ♂, *variabilis* ♀, se; *Anthophor.*: *Amegilla* ♀.

Short-tongued Bees (3, ♀)—*Halict.*: *Chloralictus versatus*, c, n, *Curtisapis coriacea*, *Seladonia*.

Diptera (1)—*Syrph.*: *Mesogramma marginata* f, n.

Lepidoptera (3)—*Papilion.*: *Callidryas*, *Pieris*; *Hesper.*: *Pholisora catullus*.

Hibiscus lasiocarpus (6: 270-1).—Blooms July 20-September 16; 8 visitors observed, July 29-September 11; Ma, W.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (6)—*Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♂ ♀ ♀, ab; *Megachil.*: *Megachile brevis* ♂; *Eucer.*: *Melissodes bimaculata* ♂ ♀; *Emphor.*: *Emphor* ♂ ♀, se, ab, *Melitoma* ♂.

Coleoptera (1)—*Scarabae.*: *Euphoria sepulchralis* f, n.

Hibiscus militaris.—Blooms August 9-31; 3 visitors observed, August 15; Ma, R.

Long-tongued Bees (3)—*Bomb.*: *Bombus americanorum* ♀; *Emphor.*: *Emphor* ♂ ♀, se, ab, *Melitoma* ♂.

Hibiscus trionum (int, 6: 271-2).—Blooms June 20-October 15; 5 visitors observed, August 28-September 26; Ma, Y.

Long-tongued Bees (3)—*Bomb.*: *Bombias auricomus* ♀, 2, *Bombus americanorum* ♂ ♀, 3; *Eucer.*: *Melissodes boltoniae* ♀, 1.

Lepidoptera (2)—*Papilion.*: *Eurymus* 2, *Pieris* 1.

Malva rotundifolia (int, 6: 268-9).—Blooms April 29–November 19; 41 visitors observed, May 14–October 9; Mi, W.

Long-tongued Bees (11)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♀, *Bombus consimilis* ♀, *impatiens* ♀, se; *Ceratin.*: *Ceratina* ♀, se, fq; *Megachil.*: Trypetini: *Neotrypetes truncatus* ♂; Osmiini: *Aleidamea simplex* ♀, *Osmia pumila* ♀; *Nomad.*: *Centrias americanus* ♂ ♀, fq, *Holonomada affabilis* ♀; *Eucer.*: *Melissodes bimaculata* ♂.

Short-tongued Bees (22)—*Halict.*: *Agapostemon radiatus* ♂ ♀, fq, *viridulus* ♂ ♀, se, fq, *Augoehlora fervida* ♀, *Chloralictus illinoensis* ♀, *type*, *pilosus* ♀, *sparsus* ♂ ♀, fq, *versatus* ♂ ♀, se, fq, *zephyrus* ♂, *Curtisapis coriacea* ♀, *Evylaeus pectoralis* ♂ ♀, se, ab, *truncatus* ♀, se, *Halictus lerouxii* ♀, se, *Odontalictus* ♂ ♀, *Oxystoglossa confusa* ♂ ♀, fq, *pura* ♀, *similis* ♀, fq, *Seladonia* ♀, se, ab; *Prosopid.*: *Prosopis pygmaea* ♀, *sayi* ♂, ab, *ziziae* ♂ ♀, sf, n; *Collet.*: *Colletes eulophi* ♀; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, se, ab.

Diptera (5)—*Syrph.*: *Mesogramma marginata* sf; *Empid.*: *Empis distans*; *Conop.*: *Zodion fulvifrons*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*.

Lepidoptera (2)—*Papilion.*: *Pieris*, *Pontia*.

Coleoptera (1)—*Malach.*: *Collops* f, n.

May 31, June 24, the first 100 individuals, representing 27 species, are as follows:

Long-tongued Bees (7: 25)—*Ap.*: *Apis* 11; *Ceratin.*: *Ceratina* 4; *Megachil.*: *Neotrypetes truncatus* 3, *Aleidamea simplex* 1, *Osmia pumila* 1; *Nomad.*: *Centrias americanus* 4, *Holonomada affabilis* 1.

Short-tongued Bees (17: 72)—*Halict.*: *Agapostemon radiatus* 2, *viridulus* 3, *Augoehlora fervida* 1, *Chloralictus sparsus* 2, *Curtisapis coriacea* 1, *Evylaeus pectoralis* 23, *Halictus lerouxii* 1, *Odontalictus* 1, *Oxystoglossa confusa* 2, *pura* 1, *similis* 5, *Seladonia* 9; *Prosopid.*: *Prosopis pygmaea* 2, *sayi* 10, *ziziae* 1; *Collet.*: *Colletes eulophi* 1; *Panurg.*: *Calliopsis andreniformis* 7.

Diptera (2: 2)—*Empid.*: *Empis distans* 1; *Conop.*: *Zodion fulvifrons* 1.

Lepidoptera (1: 1)—*Papilion.*: *Pontia* 1.

Sida spinosa (int, 6: 269).—Blooms June 14–October 26; 8 visitors observed, August 24–September 18; Mi, Y.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♂ ♀, fq; *Ceratin.*: *Ceratina* ♀, se.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa confusa* ♂.

Lepidoptera (5)—*Papilion.*: *Eurema*, *Eurymus*, *Pieris* fq, *Pontia*; *Hesper.*: *Hesperia*.

NYMPHAEACEAE

Castalia tuberosa (2:123-5).—Blooms May 22–September 18; 12 visitors observed, May 22–September 17; Mi, W.

Short-tongued Bees (8)—*Halict.* (♀, c): *Agapostemon radiatus* ab, 1 dead, *viridulus* ab, *Chloralictus nymphaearum*, *Curtisapis coriacea* dead, *Evylaeus nelumbonis* ab, *Halictus lerouxii* dead, *parallelus* 1 dead; *Prosopid.*: *Prosopis nelumbonis* ♀, f.

Diptera (3)—*Syrph.*: *Helophilus divisus* f, ab, *latifrons* f; *Bombyli.*: *Sparnopolius*, dead, n.

Coleoptera (1)—*Rhipiphor.*: *Rhipiphorus limbatus*, dead.

Nelumbo lutea (2:297-8).—Blooms June 23–August 31; 32 visitors observed, July 26–August 12; Mi, W.

Long-tongued Bees (6)—*Ap.*: *Apis* c, ab; *Bomb.* (n): *Bombias scutellaris* ♀, expl, *separatus* ♀, expl, *Bombus americanorum* ♀, expl, *impatiens* ♀, dead; *Ceratin.*: *Ceratina* ♀, c.

Short-tongued Bees (12)—*Halict.*: *Agapostemon radiatus* ♀, c, ab, *Chloralictus nymphaearum* ♀, c, *type*, *pilosus* ♀, c, ab, *sparsus* ♀, c, *versatus* ♂ ♀, f, c, ab, *Evylaeus nelumbonis* ♀, c, ab, *type*, *Halictus lerouxii* ♀, c, *parallelus* ♀, c, ab, *Odontalictus* ♀, c, *Oxytroglossa confusa* ♀, c, ab; *Prosopid.* (♀, f): *Prosopis nelumbonis*, *type*, *ziziae*.

Other Hymenoptera (2, expl, n)—*Scoli.*: *Elis interrupta*, *Scolia bicincta*.

Diptera (8)—*Syrph.* (f): *Mesogramma marginata*, *Orthoneura nitida*, *Pipiza pulchella* ab, *Sphaerophoria*, *Syritta*, *Syrphus ribesii*; *Musc.*: *Pseudopyrellia*, dead, n; *Ephydr.*: *Notiphila* f, fq.

Coleoptera (4, f)—*Cerambyc.*: *Typocerus badius*; *Chrysomel.*: *Diabrotica* 12-punctata ab; *Coccinell.*: *Hippodamea* 13-punctata, *Megilla*.

Nymphaea advena (2:122-3).—Blooms May 19–August 20; 2 visitors observed, August 20; Mi, Y.

Short-tongued Bees (1)—*Halict.*: *Evylaeus nelumbonis* ♀, c.

Diptera (1)—*Syrph.*: *Helophilus divisus*.

OLEACEAE

Fraxinus americanus (anemophilous).—One visitor observed, April 19.

Long-tongued Bees (1)—*Ap.*: *Apis* c, ab.

ONAGRACEAE

— **Circaea lutetiana** (5:273).—Blooms June 20–July 26; 18 species and 94 individuals, June 25–July 10; Mi, W.

Long-tongued Bees (2:6)—*Bomb.*: *Bombus americanorum* ♀, 1; *Ceratin.*: *Ceratina* ♀, se, 5.

Short-tongued Bees (9:86)—*Halict.*: *Augochlora viridula* ♀, se, 1, *Chloralictus obscurus* ♀, se, 1, *sparsus* ♀, 1, *versatus* ♀, se, 30, *Curtisapis fuseipennis* ♀, se, 14, *Evyllaecus pectoralis* ♀, se, 1, *pectoralis* ♀, 1, 4-maculatus ♂ ♀, se, 22, *Oxystoglossa confusa* ♀, se, 15.

Other Hymenoptera (1:1)—*Chalcid.*: *Smiera debilis*.

Diptera (6:11)—*Syrph.*: *Allograpta* 1, *Mesogramma geminata* 5, *marginata* 1, *Baecha fuseipennis* 1; *Bombyli.* (f, n): *Anthrax sinuosa* 2, *Argyramoeba oedipus* 1.

Gaura biennis (5:273).—Blooms July 2–October 24; 7 visitors observed, August 23–September 10; Ma, W.

Long-tongued Bees (5)—*Ap.*: *Apis* se; *Bomb.*: *Bombus americanorum* ♀, se, ab, *impatiens* ♀, c; *Megachil.*: *Megachile mendica* ♀, c; *Eucer.*: *Melissodes bimaculata* ♀, se.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, c, n.

Diptera (1)—*Syrph.*: *Syrphus americanus* f, n.

Ludvigia alternifolia (5:271).—Blooms July 11–August 23; 17 species and 40 individuals taken on August 3, 8; Mi, Y.

Long-tongued Bees (3:4)—*Bomb.*: *Bombus americanorum* ♀, 1; *Megachil.*: *Megachile brevis* ♀, 1, *petulans* ♂, 2.

Short-tongued Bees (10:32)—*Halict.* (♀): *Chloralictus pilosus* se, 6, *pruinus* 2, *sparsus* c, 1, *versatus* se, 13, *Halictus parallelus* se, 1, *Odontalictus* se, 4, *Oxystoglossa confusa* 1, *pura* 1, *similis* se, 1, *Seladonia* 2.

Other Hymenoptera (2:2)—*Philanth.*: *Philanthus ventilabris* 1; *Crabron.*: *Anacrabro* 1.

Diptera (1:1)—*Mycetophil.*: *Sciara atrata* 1, n.

Lepidoptera (1:1)—*Lycaen.*: *Everes* 1.

Ludvigia polycarpa (5:272).—Eighteen species and 59 individuals, August 3–19; Mi (Pol), Y.

Short-tongued Bees (5:40)—*Halict.*: *Chloralictus cressonii* ♀, 1, *versatus* ♀, se, 36, *zephyrus* ♀, 1, *Evyllaecus pectoralis* ♂, 1, *Oxystoglossa similis* ♀, 1.

Other Hymenoptera (6:8)—*Scoli.*: *Elis interrupta* 1; *Philanth.*: *Cereeris compacta* 1; *Vesp.*: *Polistes pallipes* 1, *variatus* 1; *Pompil.*: *Lophopompilus atrox* 2, *philadelphicus* 2.

Diptera (7:11)—*Syrph.*: *Mesogramma marginata* 4, *polita* 1; *Tachin.*: *Archytas analis* 1, *Belvosia unifasciata* 1, *Spallanzania* 1; *Sarcophag.*: *Sarcophaga sinuata* 2; *Anthomy.*: *Limnophora* 1.

Oenothera biennis (5:272).—Blooms July 20–October 16; 10 visitors observed, August 13–September 2; Ma, Y.

Birds (1)—*Trochil.*: Trochilus fq.

Long-tongued Bees (6)—*Ap.*: Apis sc, fq; *Bomb.*: Bombus americanorum ♂ ♀, sc, fq; *Megachil.*: Megachile mendica ♀, c; *Eucer.*: Anthedon ♂ ♀, sc, ab, oligolege, Epimelissodes obliqua ♀, c, Melissodes bimaculata ♀, c.

Short-tongued Bees (2, ♀, c)—*Halict.*: Agapostemon viridulus; *Nomi.*: Paranomia.

Lepidoptera (1)—*Sphing.*: Deilephila.

Oenothera fruticosa (5:272–3).—Blooms May 24–June 29; 28 visitors observed, May 28–June 25; Ma, Y.

Long-tongued Bees (7)—*Bomb.*: Bombus americanorum ♀, sc, ab; *Ceratin.*: Ceratina ♂ ♀, sc, fq; *Megachil.*: Alcidamea simplex ♀, c, Cyphopyga ♂ ♀, sc, ab, Megachile brevis ♂ ♀, Sayapis pollicaris ♀; *Eucer.*: Tetralonia dilecta ♀, sc.

Short-tongued Bees (9, ♀, c, n)—*Halict.*: Agapostemon viridulus ab, Chloralictus albipennis, versatus, Evylaeus pectoralis, Halictus lerouxii, parallelus, Odontalictus, Oxystoglossa confusa fq, Seladonia.

Diptera (6, f, n)—*Syrph.*: Eristalis dimidiatus, latifrons, Sphaerophoria, Syrphus americanus, Tropidia mamillata; *Tachin.*: Cistogaster pallasii.

Lepidoptera (4)—*Papilion.*: Laertias, Pontia; *Hesper.*: Limochores taumas, Polites fq.

Coleoptera (2, f, n)—*Chrysomel.*: Diabrotica 12-punctata; *Curculion.*: Centrinus scutellum-album ab.

ORCHIDACEAE

Cypripedium parviflorum pubescens.—Blooms May 7–30; 2 visitors observed, May 15, 17; Ma, Y.

Long-tongued Bees (2, n)—*Ceratin.*: Ceratina ♀, 1, Zaedon-tomerus ♂, 1.

Habenaria leucophaea (6:53–4).—Blooms June 12–July 12; 1 visitor observed, July 2; Ma (S), W.

Lepidoptera (1)—*Sphing.*: Chaerocampa 1.

Liparis liliifolia.—Blooms May 17–June 20; 2 visitors observed, June 3; Mi, R.

Diptera (1)—*Anthomy.*: Hylemyia juvenalis n.

Hemiptera (1)—*Caps.*: Lopidea n.

Orchis spectabilis (6: 52-3).—Blooms May 6-19; 2 visitors observed, May 13; Ma, R.

Long-tongued Bees (2)—*Bomb.*: *Bombias separatus* ♀. *Bombus americanorum* ♀.

Spiranthes gracilis (6: 51-2).—Blooms August 27-October 7; 2 visitors observed, September 3, 4; Ma, W.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♂.

Short-tongued Bees (1)—*Panurg.*: *Calliopsis andreniformis* ♀.

OROBANCHACEAE

Orobanche uniflora.—Blooms April 27-May 28; 1 visitor observed, May 16; Ma, W.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

OXALIDACEAE

Oxalis corniculata.—Blooms April 14-July 7; 18 visitors observed, May 22-June 10; Mi, Y.

Long-tongued Bees (4)—*Ap.*: *Apis*; *Ceratin.*: *Ceratina* ♂ ♀; *Megachil.*: *Alcidamea simplex* ♂, *Osmia pumila* ♀, se.

Short-tongued Bees (9, ♀, se)—*Halict.*: *Chloralictus albipennis*, *pilosus* fq, *pruinus* fq, *tegularis*, *versatus*, *Evyllaenus foxii*, *pectoralis*, *Odontalictus*, *Seladonia*.

Diptera (1)—*Syrph.*: *Mesogramma marginata* sf.

Lepidoptera (4)—*Nymphal.*: *Phyciodes* fq; *Papilion.*: *Pieris*, *Pontia*; *Hesperi.*: *Pholisora catullus*.

Oxalis stricta.—Blooms June 1-November 7; 12 visitors observed, June 18, August 4, 22, October 9; Mi, Y.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♀; *Eucer.*: *Melissodes bimaeculata* ♀.

Short-tongued Bees (2, ♀, se)—*Halict.*: *Chloralictus versatus*; *Panurg.*: *Calliopsis andreniformis*.

Diptera (5)—*Syrph.* (f, n): *Mesogramma marginata*, *Syrpitta*; *Empid.*: *Parempis*; *Bombyli.*: *Sparnopolius*, *Thlipsogaster*.

Lepidoptera (3)—*Papilion.*: *Pieris*; *Hesperi.*: *Pholisora catullus*, *hayhurstii*.

Oxalis violacea (6: 272-3).—Blooms April 6-June 10; 31 visitors observed, April 23-May 17; Mi (Ma), R.

Long-tongued Bees (12)—*Ap.*: *Apis*; *Bomb.*: *Bombias auricomus* ♀, *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♂ ♀, fq, *Zaodontomerus* ♂, fq; *Megachil.*: *Monilosmia* ♂, *Osmia pumila* ♀, fq; *Nomad.*: *Centrias americanus* ♂, *Holonomada superba* ♂ ♀, fq.

Nomada cressonii ♂, *parva* ♂ ♀, fq, *type*; *Eucer.*: *Tetralonia dilecta* ♂ ♀, fq.

Short-tongued Bees (14)—*Halict.* (♀): *Agapostemon radiatus*, *viridulus*, *Chloralictus albipennis*, *pilosus*, *sc*, *ab*, *versatus*, *Curtisapis forbesii*, *Evylaeus pectoralis*, *Halictus lerouxii*, *sc*, *ab*, *Odonatalictus sc*, *Oxystoglossa confusa ab*, *Seladonia sc*, *ab*; *Andren.*: *Iomelissa* ♀, *Opandrena cressonii* ♀, *personata* ♂ ♀.

Diptera (1)—*Bombyli.*: *Bombylius pulchellus*.

Lepidoptera (3)—*Nymphal.*: *Phyciodes*; *Papilion.*: *Eurymus*; *Hesper.*: *Thanaos brizo*.

Coleoptera (1)—*Buprest.*: *Acmaeodera culta* f, n.

PAPAVERACEAE

Sanguinaria canadensis (5:175-6).—Blooms March 16–April 30; 11 visitors observed, April 11–14; Mi, W.

Long-tongued Bees (3)—*Ap.*: *Apis c*, *ab*; *Ceratin.*: *Zaodontomerus* ♂; *Megachil.*: *Ceratosmia* ♂.

Short-tongued Bees (4)—*Halict.* (♀): *Chloralictus sparsus*, *zephyrus*, *Evylaeus foxii*; *Andren.*: *Andrena carlini* ♂ ♀, fq.

Diptera (3)—*Syrph.*: *Syrphus americanus* f; *Bombyli.*: *Bombylius major*; *Tachin.*: *Gonia capitata*.

Coleoptera (1)—*Oedemer.*: *Asclera ruficollis* f, fq.

PASSIFLORACEAE

Passiflora lutea.—Blooms July 5–September 26; 6 visitors observed, July 8–September 9; Mi, W.

Short-tongued Bees (4)—*Halict.* (♀, c, n): *Chloralictus pruinus* 1, *versatus* 2; *Collet.*: *Colletes latitarsis* ♂ ♀, *ab*; *Panurg.*: *Anthemurgus passiflorae* ♂ ♀, *sc*, *ab*, *type*, *oligolege*.

Other Hymenoptera (2)—*Eumen.*: *Eumenes fraternus* 1; *Crabron.*: *Anacrabro* 1.

PEDALIACEAE

Martynia louisiana (5:65).—Blooms July 12–September 14; 1 visitor observed, September 3; Ma, R.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

PHRYMACEAE

Phryma leptostachya (5:68).—Blooms July 3–September 3; 2 visitors observed, July 27, August 8; Mi, R.

Long-tongued Bees (1)—*Ceratin.*: *Ceratina* ♀.

Short-tongued Bees (1)—*Halict.*: *Oxystoglossa confusa* ♂.

PHYTOLACCACEAE

Phytolacca decandra (5:68-9).—Blooms June 14–October 15; 12 visitors observed, July 17, 23; Mis, W.

Long-tongued Bees (1)—*Ap.*: *Apis*.

Short-tongued Bees (5)—*Halict.*: *Chloralictus sparsus* ♂ ♀, se, ab, versatus ♀, se, ab, zephyrus ♀, *Odontalictus* ♂, *Seladonia* ♂ ♀.

Other Hymenoptera (2)—*Vesp.*: *Polistes pallipes*; *Pompil.*: *Prioenemoides fulvicornis*.

Diptera (4)—*Syrph.*: *Mesogramma geminata*, *Syritta* ab; *Empid.*: *Parempis*; *Tachin.*: *Archytas analis*.

PLANTAGINACEAE (anemophilous)

Plantago major.—Three visitors observed, June 23–July 17.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀, e, 1.

Short-tongued Bees (2, ♀ e)—*Halict.*: *Chloralictus versatus* 11, *Oxytossia similis* 1.

POLEMONIACEAE

Phlox divaricata (8: 143, 13: 578).—Blooms April 3–June 2; 25 visitors observed, April 25–May 23; Ma, R.

Long-tongued Bees (8)—*Bomb.* (♀): *Bombias separatus*, *Bombus americanorum* ab, consimilis, impatiens, ridingsii, *Psithyrus variabilis*; *Megachil.*: *Osmia cordata* ♂; *Eucer.*: *Tetralonia dilecta* ♂ ♀, ab.

Diptera (1)—*Bombyli.*: *Bombylius atriceps*.

Lepidoptera (16)—*Nymphal.*: *Anosia*; *Papilion.*: *Euphœades*, *Eurymus*, *Heraclides*, *Iphielides*, *Jasoniades*, *Laertias*, *Papilio*; *Hesperi.*: *Atrytone zabulon* ab, *Epargyreus*, *Limochores taumas*, *Thanaos icelus*, *Thorybes bathyllus*; *Sphing.*: *Deilephila*, *Hemaris thysbe*; *Noctu.*: *Plusia simplex*.

April 29, May 6, 11, 18, 20, 1909, the following 9 species and 62 individuals were taken on the flowers:

Long-tongued Bees (6: 56)—*Bomb.*: *Bombias separatus* 1, *Bombus americanorum* 7, consimilis 1, ridingsii 1, *Psithyrus variabilis* 3; *Eucer.*: *Tetralonia dilecta* 43.

Lepidoptera (3: 6)—*Papilion.*: *Eurymus* 1, *Iphielides* 1; *Hesperi.*: *Atrytone zabulon* 4.

Phlox glaberrima (8: 142).—Blooms May 28–August 6; 8 visitors observed, May 28–July 18; Ma, R.

Lepidoptera (7)—*Nymphal.*: *Anosia*; *Papilion.*: *Eurymus*, *Heraclides*, *Laertias*, *Papilio*; *Hesperi.*: *Polites*; *Ctenuch.*: *Scopsis*.

Diptera (1)—*Syrph.*: *Syrphus americanus* f, n.

Phlox pilosa (8: 142–3).—Blooms April 27–June 29; 20 visitors observed, May 8–June 8; Ma, R.

Long-tongued Bees (7)—*Bomb.* (♀): *Bombias auricomus* fq, separatus, *Bombus americanorum*, impatiens; *Nomad.*: *Holonomada*

superba ♀; *Eucer.*: *Tetralonia dilecta* ♂ ♀, ab; *Anthophor.*: *Anthophora* ♀.

Diptera (1)—*Bombyli.*: *Bombylius atriceps*.

Lepidoptera (12)—*Nymphal.*: *Phyciodes*, *Vanessa huntera*; *Lycaen.*: *Chrysophanus*; *Papilion.*: *Euphœades*, *Eurymus* ab, *Jasoniades*, *Papilio*; *Hesperi.*: *Epargyreus*, *Polites* fq, *Thorybes bathyllus* fq, *pylades*; *Noctu.*: *Plusia simplex* fq.

May 16, 1911, 6 species and 48 individuals were taken on the flowers, as follows:

Long-tongued Bees (2:21)—*Bomb.*: *Bombias auricomus* 1; *Eucer.*: *Tetralonia dilecta* 20.

Lepidoptera (4:27)—*Papilion.*: *Eurymus* 10; *Hesperi.*: *Epargyreus* 2, *Polites* 8, *Thorybes bathyllus* 7.

Polemonium reptans (13:578-9).—Blooms April 12–May 24; 50 visitors observed, April 14–May 20; Ma, R.

Long-tongued Bees (21)—*Ap.*: *Apis* sc, ab; *Bomb.* (♀): *Bombias auricomus*, *separatus* fq, *Bombus americanorum* ab, *consimilis*, *impatiens* fq, *ridingsii*, *Psithyrus variabilis*; *Ceratin.*: *Ceratina* ♂ ♀, ab, *Zaodontomerus* ♂; *Megachil.*: *Aleidamea simplex* ♂, *Ceratosmia* ♂ ♀, *Diceratosmia* ♀, sc, fq, *Osmia atriventris* ♂ ♀, *pumila* ♂ ♀, sc, ab; *Nomad.*: *Gnathias ovatus* ♀, *xanthoparius* ♂, fq, *Holonomada affabilis* ♂; *Eucer.*: *Tetralonia belfragei* ♂ ♀, sc, ab, *dilecta* ♂, fq; *Anthophor.*: *Anthophora* ♂.

Short-tongued Bees (17)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus coreopsis* sc, *obscurus*, *pilosus* sc, *versatus*, *Curtisapis coriacea* sc, *Halictus lerouxii* sc, *Oxystoglossa confusa* sc, ab, *pura* sc, fq, *similis*; *Andren.*: *Andrena carlini* ♀, *geranii* ♂, fq, *nasonii* ♀, c, *pruni* ♀, *sayi* ♀, sc, *Ptilandrena g. maculati* ♂, *polemonii* ♂ ♀, sc, ab, *type*, *oligolege*.

Diptera (5)—*Syrph.*: *Mesogramma marginata* f, n, *Pipiza femoralis* f, n, *Rhingia* sf; *Empid.*: *Pachymeria*; *Bombyli.*: *Bombylius major*.

Lepidoptera (5, n)—*Papilion.*: *Eurymus* fq; *Hesperi.*: *Thanaos brizo*, *juvenalis* fq; *Sphing.*: *Hemaris thysbe*; *Noctu.*: *Plusia simplex* fq.

Coleoptera (2, f, n)—*Anthic.*: *Corphyra terminalis*; *Coccinell.*: *Megilla*.

April 14, 21, 28, 1910, the following 30 species and 133 individuals were taken on the flowers:

Long-tongued Bees (15:90)—*Ap.*: *Apis* 26; *Bomb.*: *Bombias auricomus* 3, *separatus* 6, *Bombus americanorum* 5, *impatiens* 5, *ridingsii* 1, *Psithyrus variabilis* 1; *Ceratin.*: *Ceratina* 3, *Zaodon-*

tomerus 1; *Megachil.*: *Ceratosmia* 1, *Diceratosmia* 7, *Osmia atriventris* 3, *pumila* 6; *Eucer.*: *Tetralonia belfragei* 17, *dilecta* 5.

Short-tongued Bees (9:21)—*Halict.*: *Agapostemon radiatus* 1, *Chloralictus coreopsis* 1, *pilosus* 3, *versatus* 1, *Curtisapis coriacea* 2, *Oxystoglossa pura* 6, *similis* 2; *Andren.*: *Andrena pruni* 1, *Ptilandrena polemonii* 4.

Diptera (2:2)—*Syrph.*: *Pipiza femoralis* 1; *Bombyli.*: *Bombylius major* 1.

Lepidoptera (4:20)—*Papilion.*: *Eurymus* 5; *Hesper.*: *Thanaos juvenalis* 6; *Sphing.*: *Hemaris thysbe* 1; *Noctu.*: *Plusia simplex* 8.

POLYGALACEAE

Polygala sanguinea.—Blooms June 8–August 27; 4 visitors observed, August 26, 27; Mis, R.

Long-tongued Bees (2, ♂)—*Epeol.*: *Triepeolus cressonii*; *Eucer.*: *Melissodes nivea* fq.

Short-tongued Bees (1)—*Panurg.*: *Calliopsis andreniformis* ♂ ♀, sc, fq.

Diptera (1)—*Bombyli.*: *Systoechus*.

POLYGONACEAE

Polygonum acre.—Blooms June 24–October 26; 10 visitors observed, August 26–September 16; Mis, W.

Long-tongued Bees (1)—*Ap.*: *Apis*.

Short-tongued Bees (1)—*Halict.*: *Augochlora viridula* ♀.

Other Hymenoptera (5)—*Vesp.*: *Polistes pallipes*; *Eumen.*: *Ancistrocerus capra*, *Eumenes fraternus*; *Crabron.*: *Xestocrabro 6-maculatus*; *Nysson.*: *Pseudoplisus divisus*.

Diptera (3)—*Syrph.*: *Platychirus quadratus*, *Syritta*; *Tachin.*: *Archytas aterrima* fq.

Polygonum amphibium.—Blooms August 2–October 30; 1 visitor observed, August 30; Mis, R.

Other Hymenoptera—*Vesp.*: *Vespa germanica*.

Polygonum hydropiper.—Blooms July 26–October 6; 3 visitors observed, September 16; Mis, W.

Short-tongued Bees—*Halict.*: *Haliectus lerouxii* ♀.

Other Hymenoptera—*Vesp.*: *Polistes variatus*.

Diptera—*Tachin.*: *Tachina mella*.

Polygonum hydropiperoides (9:72–3).—Blooms July 11–September 20; 73 visitors observed, August 30, September 20; Mis, W.

Long-tongued Bees (4)—*Ap.*: *Apis*; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile brevis* ♂, *mendica* ♀.

Short-tongued Bees (10)—*Halict.*: *Agapostemon radiatus* ♂ ♀, *Curtisapis coriacea* ♂, fq, *Halictus lerouxii* ♀, *Seladonia* ♀; *Prosopid.*: *Prosopis pygmaea* ♂; *Collet.*: *Colletes americanus* ♂ ♀, fq, *armatus* ♂, ab, *eulophi* ♂, *latitarsis* ♀; *Andren.*: *Pterandrena solidaginis* ♀.

Other Hymenoptera (39)—*Sphec.*: *Ammobia ichneumonea*, *Isodontia apicalis*, *Priononyx atrata*, *thomae*, *Sceliphron*; *Scoli.*: *Elis 5-cincta*; *Philanth.*: *Cerceris fumipennis*, *kennicottii*, *Eucerceris*, *Philanthus punctatus*, *ventilabris*; *Vesp.*: *Polistes pallipes*, *variatus*; *Eumen.*: *Ancistrocerus capra*, *Leionotus arvensis*, *dorsalis*; *Crabron.*: *Anacrabro*, *Synothyreopus*, *Xestocrabro texanus*, *trifasciatus*; *Oxybel.*: *Notoglossa americana*, *Oxybelus 4-notatus*; *Larr.*: *Astatus unicolor*, *Larropsis* fq, *Tachytes aurulentus*; *Nysson.*: *Pseudoplisus phaleratus*; *Pompil.*: *Batizonus*, *Ceropales fraterna*, *Episyron*, *Lophopompilus philadelphicus*, *Poecilopompilus interruptus*, *Prioenemoides fulvicornis*; *Tiphi.*: *Tiphia clypeata*; *Mutill.*: *Sphaerophthalma*; *Chrysid.*: *Chrysis texana*, *Hedychrum violaceum*, *wiltii*, *Holopyga*, *Tetrachrysis nitidula*.

Diptera (16)—*Syrph.*: *Eristalis bastardi*, *flavipes*, *Paragus tibialis*, *Syritta*, *Tropidia quadrata* fq; *Bombyli.*: *Systoechus*; *Conop.*: *Conops brachyrrhynchus*; *Tachin.*: *Archytas analis*, *Chaetogaedia analis*; *Sarcophag.*: *Helicobia helicis*, 4-setosa, *Sarcophaga hunteri*; *Musc.*: *Compsomyia*, *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Coenosia antica*.

Coleoptera (4)—*Chrysomel.*: *Disonycha*; *Coccinell.*: *Coccinella 9-notata*; *Curculion.*: *Listronotus*; *Lampyr.*: *Chauliognathus pennsylvanicus*.

Polygonum lapathifolium.—Blooms June 22–September 19; 18 species and 28 individuals observed, August 22, 1910; Mis, W.

Long-tongued Bees (1:1)—*Bomb.*: *Psithyrus variabilis* ♂, 1.

Short-tongued Bees (3:3, ♀)—*Halict.*: *Augochlora fervida* 1, *Chloralictus pilosus* 1, *Halictus parallelus* se, 1.

Other Hymenoptera (9:16)—*Scoli.*: *Elis interrupta* 1, 5-cincta 5, *Scolia bicincta* 1; *Philanth.*: *Eucerceris* 3, *Philanthus punctatus* 2, *ventilabris* 1; *Vesp.*: *Polistes variatus* 1; *Larr.*: *Astatus unicolor* 1; *Chrysid.*: *Hedychrum wiltii* 1.

Diptera (3:3)—*Tachin.*: *Gymnosoma* 1, *Trichophora* 1; *Anthomy.*: *Phorbia platura* 1.

Lepidoptera (1:1)—*Nymphal.*: *Phyciodes* 1.

Hemiptera (1:4)—*Lygae.*: *Lygaeus* 4.

Polygonum pennsylvanicum (9:72).—Blooms June 20–October 26; 87 visitors observed, August 8–September 22; Mis, W.

Long-tongued Bees (10)—*Ap.*: *Apis* se, ab; *Bomb.*: *Bombias separatus* ♂, *Bombus americanorum* ♂ ♀, ab, *impatiens* ♂ ♀, ab; *Megachil.*: *Megachile brevis* ♂ ♀, *petulans* ♂; *Epeol.*: *Epeolus pusillus* ♂, *Triepeolus donatus* ♂; *Eucet.*: *Melissodes autumnalis* ♂, *bimaculata* ♀.

Short-tongued Bees (11)—*Halict.*: *Agapostemon radiatus* ♂, *Augochlora viridula* ♀, *Chloralictus pilosus* ♀, *sparsus* ♀, *versatus* ♀, *Haliectus parallelus* ♂ ♀, *Oxystoglossa confusa* ♀, *Seladonia* ♀; *Andren.*: *Pterandrena asteris* ♂, *solidaginis* ♀; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, fq.

Other Hymenoptera (29)—*Sphéc.*: *Chlorion*, *Priononyx atrata*, *Sphex nigricans*; *Bembic.*: *Bicyrtes ventralis*; *Scoli.*: *Elis 5-cincta* fq, *Scolia bicincta*; *Philanth.*: *Cereceris clypeata*, *fulvipes*, *Eucereceris*; *Vesp.*: *Polistes annularis*, *pallipes*, *rubiginosus*, *variatus*, *Vespula cuneata* fq, *germanica* ab; *Eumen.*: *Ancistrocerus campestris*, *capra* fq, *tigris* fq; *Crabron.*: *Solenius*, *Nestoerabro 6-maculatus*; *Larr.*: *Larropsis*, *Tachytes aurulentus*, *elongatus*; *Pompil.*: *Anoplius illinoensis*, *Lophopompilus philadelphicus*, *Planiceps niger*, *Pompiloides americanus*, *Priocnemoides fulvicornis*; *Ichneumon.*: *Ceratosoma*.

Diptera (28)—*Syrph.*: *Eristalis aeneus*, *tenax*, *transversus*, *Mesogramma marginata*, *polita*, *Milesia*, *Sphaerophoria*, *Syritta*, *Syrphus americanus* fq, *torvus*, *Tropidia quadrata*; *Bombyli.*: *Sparnopolius*; *Tachin.*: *Archytas analis*, *aterrima* ab, *Belvosia unifasciata*, *Chaetogaedia analis*, *Cistogaster pallasii*, *Linnaemyia*, *Paradidyma*, *Senotainia rubriventris*, *Siphoplugia anomala*, *Spallanzania*; *Sarcophag.*: *Helicobia 4-setosa*, *Sarcophaga eimbicis*; *Musc.*: *Compsomyia*, *Graphomyia*, *Phormia regina*, *Pseudopyrellia*.

Lepidoptera (8)—*Nymphal.*: *Vanessa atalanta*; *Lycaen.*: *Chrysophanus*; *Papilion.*: *Eurymus*, *Pieris*, *Pontia*; *Hesper.*: *Limochores taumas*; *Ctenuch.*: *Scepsis*; *Noctu.*: *Heliothis armiger*.

Coleoptera (1)—*Lampyr.*: *Chauliognathus pennsylvanicus*.

August 29, 1910, the following 11 species and 22 individuals were taken on the flowers:

Long-tongued Bees (3:10)—*Ap.*: *Apis* 6; *Megachil.*: *Megachile brevis* 3, *petulans* 1.

Short-tongued Bees (1:2)—*Halict.*: *Haliectus parallelus* 2.

Other Hymenoptera (4:7)—*Bembic.*: *Bicyrtes ventralis* 1; *Scoli.*: *Elis 5-cincta* 4; *Philanth.*: *Eucereceris* 1; *Ichneumon.*: *Ceratosoma* 1.

Diptera (3:3)—*Syrph.*: *Sphaerophoria* 1; *Tachin.*: *Senotainia rubriventris* 1, *Spallanzania* 1.

Polygonum persicaria (int).—Blooms May 10–October 26; 13 visitors observed, August 4–September 15; Mis, W.

Long-tongued Bees (1)—*Bomb.*: *Bombus impatiens* ♂ ♀.

Short-tongued Bees (4)—*Halict.*: *Chloralictus sparsus* ♂ ♀, sc, fq, versatus ♀, fq, zephyrus ♀, *Halictus lerouxii* ♂.

Other Hymenoptera (4)—*Philanth.*: *Cerceris finitima*; *Vesp.*: *Polistes annularis*; *Crabron.*: *Solenius*; *Oxybel.*: *Notoglossa frontalis*.

Diptera (3)—*Syrph.*: *Syritta ab*; *Bombyli.*: *Anthrax alternata* f; *Anthomy.*: *Phorbia acra*.

Lepidoptera (1)—*Papilion.*: *Pontia*.

Polygonum scandens.—Blooms July 10–October 1; 64 species and 395 individuals, August 22–September 15; Mis, W.

Long-tongued Bees (2:5)—*Ceratin.*: *Ceratina* ♀, 1; *Nomad.*: *Nomada vicina* ♂, 4.

Short-tongued Bees (10:169)—*Halict.*: *Chloralictus sparsus* ♂, 144, versatus ♂ ♀, 3, zephyrus ♂, 9; Sphecodini: *Machaeris stygia* ♂, 3; *Prosopid.*: *Prosopis pygmaea* ♂, 1, *saniculae* ♂, 1, *ziziae* ♀, 1; *Collet.*: *Colletes americanus* ♂, 1; *Andren.*: *Pterandrena solidaginis* ♀, 1; *Panurg.*: *Pseudopanurgus compositarum* ♂ ♀, 5.

Other Hymenoptera (22:42)—*Sphec.*: *Sphex gracilis* 2, vulgaris 1; *Philanth.*: *Cerceris finitima* 1, *fumipennis* 1, *Philanthus punctatus* 1; *Vesp.*: *Vespula germanica* 1; *Eumen.*: *Ancistrocerus tigris* 2, *Eumenes fraternus* 1, *Leionotus perennis* 1, *serophulariae* 3; *Crabron.*: *Anacrabro* 1, *Lindenius errans* 2, *Rhopalum scutellatum* 1; *Oxybel.*: *Notoglossa americana* 2, *frontalis* 4; *Larr.*: *Asatus bicolor* 1, *Larropsis* 3; *Pompil.*: *Lophopompilus atrox* 1; *Chrysid.*: *Hedychrum violaceum* 2; *Chalcid.*: *Leucospis* 1, *Perilampus cyaneus* 2, *platygaster* 8.

Diptera (25:74)—*Mycetophil.*: *Sciara atrata* 19; *Syrph.*: *Milesia* 3, *Syritta* 2; *Tachin.*: *Actia* 2, *Archytas analis* 1, *aterrima* 3, *Cyphocera* 4, *Exorista confinis* 1, *Hypostena dunningii* 1, *Linnaemyia* 1, *Pachyophthalmus signatus* 1, *Paradidyma* 1, *Senotainia trilineata* 5, *Siphoplaga flaccidirostris* 1, *Sturmia phyciodis* 1, *Trichopoda pennipes* 7, *Trichophora* 1, *Xanthomelana* 2; *Sarcophag.*: *Helicobia helicis* 5, *Sarcophaga assidua* 5, *cimbicis* 3; *Musc.*: *Lucilia caesar* 1, *Musca* 1, *Pseudopyrellia* 2; *Ephydr.*: *Ochthera*, pred, n, 1.

Lepidoptera (4:4)—*Nymphal.*: *Vanessa atalanta* 1; *Lycaen.*: *Everes* 1; *Papilion.*: *Pieris* 1; *Hesper.*: *Limochores taumas* 1.

Coleoptera (1:1)—*Lampyr.*: *Chauliognathus pennsylvanicus* 1.

PONTEDERIACEAE.

Pontederia cordata.—Blooms July 1–September 15; 2 visitors observed, August 8, September 15; Ma (Mas), R.

Long-tongued Bees (1)—*Eucer.*: *Florilegus* ♂.

Lepidoptera (1)—*Papilion.*: *Eurymus*.

PORTULACACEAE.

Claytonia virginica (2:177–8).—Blooms March 16–May 24; 103 visitors observed, April 8–May 11; Mi, W.

Long-tongued Bees (21)—*Ap.*: *Apis* se, ab; *Bomb.* (♀): *Bombias auricomus*, *Bombus americanorum*, *consimilis*, *impatiens*; *Ceratin.*: *Ceratina* ♂ ♀, *Zaodontomerus* ♂; *Megachil.*: *Ceratosmia* ♂ ♀, fq, *Osmia atriventris* ♀, *pumila* ♂ ♀; *Nomad.*: *Gnathias euneatus* ♂, *ovatus* ♀, fq, *Heminomada* ♀, *Holonomada affabilis* ♀, *Nomada cressonii* ♂ ♀, *illinoensis* ♂, *sayi* ♂ ♀, *Phor* ♀, *Xanthidium luteoloides* ♂ ♀, *type*; *Eucer.*: *Tetralonia belfragei* ♂ ♀, *dilecta* ♀.

Short-tongued Bees (37)—*Halict.* (♀): *Agapostemon radiatus* se, *splendens*, *Augochlora viridula*, *Chloralictus cressonii*, *illinoensis*, *pilosus*, *sparsus*, *versatus* se, fq, *zephyrus*, *Curtisapis coriacea* se, ab, *Odontalictus*, *Oxystoglossa confusa* fq, *type*, *similis*, *Selandonia* se, ab; *Sphæcodini*: *Sphæcodes arvensis*; *Collet.*: *Colletes inaequalis* ♂ ♀; *Andren.*: *Andrena arabis* ♀, *earlini* ♂ ♀, fq, *dunningi* ♀, *erythrogastra* ♀, *erythronii* ♀, *mandibularis* ♀, *nasonii* ♀, *pruni* ♀, *sayi* ♂ ♀, *Opandrena cressonii* ♂ ♀, se, fq, *misericorsis* ♂ ♀, se, fq, *personata* ♂, fq, *Ptilandrena erigeniae* ♂ ♀, se, ab, *oligolege*, *Trachandrena claytoniae* ♂ ♀, se, fq, *type*, *forbesii* ♀, se, fq, *rugosa* ♂.

Diptera (35)—*Syrph.*: *Allograpta*, *Eristalis dimidiatus*, *latifrons*, *Helophilus similis*, *Melanostoma obscurum*, *Mesogramma geminata*, *marginata*, *Paragus bicolor* fq, *Rhingia*, *Sphaerophoria*, *Syritta*, *Syrphus americanus*, *arcuatus*, *ribesii*, *torvus*; *Empid.*: *Empis humilis*, *nuda*, *otiosa*; *Bombyli.*: *Bombylius major* fq; *Conop.*: *Myopa vesiculosa*; *Sarcophag.*: *Calliphora erythrocephala*, *Cynomyia*, *Helicobia heliceis*, *4-setosa*, *Sarcophaga sinuata*; *Musc.*: *Lucilia sylvarum*, *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Coenosia antea*, *Limnophora*, *Phorbia aera*, *platura*; *Scatophag.*: *Scatophaga*; *Seps.*: *Prochyliza*, *Sepsis*.

Lepidoptera (9)—*Nymphal.*: *Phyciodes*, *Vanessa atalanta*; *Lycaen.*: *Everes*; *Papilion.*: *Eurymus*, *Iphielides*, *Pieris*, *Pontia*; *Hesperi.*: *Thanaos icelus*, *juvenalis*.

Coleoptera (1)—*Coccinell.*: *Megilla* f, n.

May 5, 6, 9, 10, 1916, the first 100 individuals, representing 27 species, taken on the flowers are as follows:

Long-tongued Bees (4: 10)—*Ap.*: *Apis* 4; *Bomb.*: *Bombus consimilis* 1; *Megachil.*: *Osmia pumila* 2; *Nomad.*: *Gnathias ovatus* 3.

Short-tongued Bees (15: 81)—*Halict.*: *Chloralictus pilosus* 5, *sparsus* 3, *versatus* 5, *zephyrus* 2, *Evylaeus foxii* 1, *truncatus* 1, *Odontalictus* 5; *Andren.*: *Andrena arabis* 1, *nasonii* 3, *Opandrena cressonii* 2, *miserabilis* 3, *personata* 5, *Ptilandrena erigeniae* 39; *Trachandrena claytoniae* 2, *forbesii* 4.

Diptera (8: 9)—*Syrph.*: *Mesogramma geminata* 1; *Conop.*: *Myopa vesiculosa* 1; *Sarcophag.*: *Helicobia helioides* 1, *Sarcophaga sinuata* 1; *Musc.*: *Lucilia sylvarum* 2; *Anthomy.*: *Limnophora* 1, *Phorbia acra* 1, *platura* 1.

Portulaca oleracea (int).—Blooms June 12–October 3; 3 visitors observed, August 11; Mi, Y.

Short-tongued Bees (1)—*Panurg.*: *Calliopsis andreniformis* ♀.

Diptera (1)—*Syrph.*: *Syritta*.

Coleoptera (1)—*Malach.*: *Collops*.

PRIMULACEAE

Dodecatheon meadia (8: 104–6).—Blooms April 23–May 30; 9 species and 38 individuals observed, May 2–23; Ma, W.

Long-tongued Bees (6: 35)—*Bomb.* (♀): *Bombias auricomus* 4, *separatus* 4, *Bombus americanorum* 21, *impatiens* 2; *Eucer.*: *Tetralonia dilecta* ♂, 3; *Anthophor.*: *Anthophora* ♀, *sc*, 1.

Short-tongued Bees (2: 2, ♀, c, n)—*Halict.*: *Augochlora viridula* 1, *Oxystoglossa confusa* 1.

Lepidoptera (1)—*Papilion.*: *Eurymus* 1.

Samolus floribundus.—Blooms June 15–October 8; 1 visitor observed, September 9; Mi, W.

Diptera (1)—*Empid.*: *Parempis* 1.

Steironema ciliatum (8: 106–8).—Blooms June 11–August 6; 2 visitors observed, July 1, 16, 18; Mi, Y.

Short-tongued Bees (2: 8)—*Halict.*: *Chloralictus versatus* ♀, *cf*, 1; *Macropid.*: *Macropis* ♂ ♀, *cf*, 7.

Steironema lanceolatum (6: 47).—Blooms June 10–July 15; 1 visitor observed, June 12–July 1; Mi, Y.

Short-tongued Bees (1)—*Macropid.*: *Macropis steironematis* ♂ ♀, *cf*, *ab*, *type*.

Steironema quadriflorum (6: 48).—Blooms June 4–August 23; 2 visitors observed, July 6, 10; Mi, Y.

Short-tongued Bees (2, ♀, c)—*Halict.*: Chloralictus versatus; *Macropid.*: Macropis, ab.

RANUNCULACEAE

Actea alba (10: 229).—Blooms May 3–23; 3 visitors observed, May 8, 9; Mi, W.

Short-tongued Bees (3, ♀)—*Halict.*: Chloralictus zephyrus c, Evylaeus pectoralis c, ab, Oxystoglossa confusa f.

Anemonella thalictroides.—Blooms April 2–May 22; 21 visitors observed, April 2–28; Mi, W.

Long-tongued Bees (5)—*Ap.*: Apis; *Ceratin.*: Ceratina ♂ ♀, in cop; *Megachil.*: Diceratomia ♀, se, Osmia pumila ♀, c; *Nomad.*: Gnathias ovatus ♀.

Short-tongued Bees (11)—*Halict.* (♀): Chloralictus sparsus sf, versatus sf, fq, Curtisapis coriacea, Evylaeus pectoralis, Halictus lerouxii, Oxystoglossa confusa sf, Seladonia sf, fq; *Collet.*: Colletes inaequalis ♂; *Andren.*: Andrena carlini ♀, Opandrena cressonii ♀, Trachandrena claytoniae ♂.

Diptera (4)—*Syrph.*: Brachypalpus frontosus, Eristalis dimidiatus, Sphaerophoria f; *Bombyli.*: Bombylius major fq.

Coleoptera (1)—*Nitidul.*: Cercus fq.

Aquilegia canadensis.—Blooms April 30–July 5; 1 visitor observed, May 12; Ma (O), R.

Birds (1)—*Trochil.*: Trochilus.

Clematis pitcheri (7: 105).—Blooms June 3–July 31; 4 visitors observed, June 22–July 7; Ma, R.

Long-tongued Bees (3)—*Bomb.*: Bombias auricomus ♀, se, Bombus americanorum ♀ ♀, se, consimilis ♀.

Diptera (1)—*Syrph.*: Volucella vesiculosa.

Clematis virginiana (7: 103–5).—Blooms June 23–August 16; 60 visitors observed, July 21–30; Pol (Mis), W.

On staminate flowers:—

Long-tongued Bees (2)—*Ap.*: Apis; *Bomb.*: Bombus impatiens ♀, se.

Short-tongued Bees (9)—*Halict.*: Agapostemon radiatus ♂, Chloralictus illinoensis ♂, fq, sparsus ♂ ♀, se, ab, versatus ♂ ♀, se, zephyrus ♂ ♀, se, fq, Halictus lerouxii ♂; *Sphecodini*: Sphecodes arvensis ♂ ♀, fq, clematidis ♀, type; *Prosopid.*: Prosopis ziziae ♂ ♀.

Other Hymenoptera (10)—*Sphec.*: Ammobia ichneumonea, Isodontia apicalis, Seeliphron; *Scoli.*: Scolia bicincta; *Eumen.*:

Ancistrocerus tigris, *Leionotus foraminatus*; *Crabron.*: *Lindenius errans*, *Solenius*; *Oxybel.*: *Oxybelus 4-notatus*; *Nysson.*: *Nysson plagiatus*.

Diptera (37)—*Stratiomy.*: *Stratiomyia unilimbata*; *Syrph.*: *Allograpta*, *Eristalis transversus*, *Mesogramma marginata*, *Platy-chirus quadratus*, *Sphaerophoria*, *Syritta* ab; *Conop.*: *Oncomyia*; *Tachin.*: *Archytas analis*, *aterrima*, *Belvosia unifasciata*, *Linn-aemyia*, *Ennyomma globosa*, *Pachyophthalmus signatus* fq, *Phor-antha purpurascens*, *Senotainia trilineata* ab, *Siphona*, *Sturmia phyciodis*; *Sarcophag.*: *Calliphora erythrocephala*, *Helicobia he-licis*; *Musc.*: *Compsomyia* ab, *Graphomyia*, *Lucilia sericata*, *Musca* ab, *Protocalliphora*, *Pseudopyrellia*; *Anthomy.*: *Calythea*, *Homal-omyia canicularis*, *prostrata*, *Limnophora*, *Phorbia acra* fq, *platura*; *Agromyz.*: *Lobioptera*; *Seps.*: *Nemopoda*, *Piophila*, *Prochyliza*, *Sepsis*.

Lepidoptera (1)—*Lycaen.*: *Cyaniris*.

Hemiptera (1)—*Caps.*: *Lopidea*.

Delphinium tricornes (8: 120-2).—Blooms April 23–June 7; 21 visitors observed, May 4–15.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (9)—*Bomb.* (♀): *Bombias auricomus* ab, *separatus*, *Bombus americanorum* ab, *consimilis*, *impatiens*; *Cera-tin.*: *Ceratina* ♀, n; *Eucer.*: *Tetralonia dilecta* ♂ ♀, se, ab, in cop; *Anthophor.*: *Anthemoessa* ♂, *Anthophora* ♀, se.

Short-tongued Bees (2, ♀, c, n)—*Halict.*: *Agapostemon radia-tus*, *Halictus lerouxii*.

Lepidoptera (8, n)—*Nymphal.*: *Anosia*; *Papilion.*: *Euphoe-ades*, *Eurymus*, *Jasoniades*, *Papilio*; *Hesperi.*: *Atrytone zabulon*, *Epargyreus*; *Sphing.*: *Deilephila*.

Hepatica acutiloba (16: 153).—Blooms March 18–April 27; 18 visitors observed, March 27–April 19; Mi, W.

Long-tongued Bees (2)—*Ap.*: *Apis* se, fq; *Ceratin.*: *Zaodontomerus* ♂.

Short-tongued Bees (9)—*Halict.*: *Chloralictus sparsus* ♀, *ver-satus* ♀; *Collet.*: *Colletes inaequalis* ♂; *Andren.*: *Andrena carlini* ♂ ♀, *erythronii* ♂, *mandibularis* ♂, *tridens* ♂, *type*, *Opandrena miserabilis* ♀, *Trachandrena rugosa* ♂ ♀, fq.

Diptera (7)—*Syrph.*: *Brachypalpus frontosus* sf, fq, *Eristalis dimidiatus* sf, *Syrphus americanus* f; *Bombyli.*: *Bombylius major* fq; *Tachin.*: *Gonia capitata*; *Musc.*: *Pseudopyrellia* fq; *Anthomy.*: *Phorbia platura*.

— **Isopyrum biternatum** (5:173).—Blooms March 20–May 2; 52 visitors observed, March 26–April 30; Mi, W.

Long-tongued Bees (7)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♂, *Zaodontomerus* ♂; *Megachil.*: *Osmia pumila* ♂ ♀; *Nomad.*: *Nomada sayi* ♂ ♀; *Eucerr.*: *Tetralonia belfragei* ♂ ♀.

Short-tongued Bees (25)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus caeruleus*, *eressonii*, *obscurus*, *pilosus*, *sparsus* se, *versatus* se, ab, *zephyrus* ab, *Curtisapis coriacea*, *forbesii*, *Evyllaenus foxii*, *pectoralis*, 4-maculatus, *Halictus lerouxii* se, *Oxystoglossa confusa* se, fq, *pura*, *Seladonia* se, ab; *Collet.*: *Colletes inaequalis* ♂; *Andren.*: *Andrena carlini* ♂ ♀, fq, *sayi* ♂ ♀, fq, *Opandrena miserabilis* ♀, e, *Ptilandrena erigeniae* ♂ ♀, *Trachandrena claytoniae* ♂, *forbesii* ♀, *rugosa* ♂ ♀, fq.

Other Hymenoptera (1)—*Sapyg.*: *Sapyga*.

Diptera (14)—*Syrph.*: *Chilosia capillata* sf, *Eristalis dimidiatus*, *Helophilus similis*, *Melanostoma obscurum*, *Mesogramma geminata*, *marginata* f, n, *Sphaerophoria* f, n, *Syrphus americanus* sf, *ribesii*, *Xylota fraudulosa*; *Empid.*: *Empis nuda*; *Bombyli.*: *Bombylius major* ab; *Tachin.*: *Gonia capitata*; *Musc.*: *Pseudopyrellia*.

Coleoptera (4, f, n)—*Anthic.*: *Corphyra terminalis*; *Chrysomel.*: *Diabrotica vittata*; *Coccinell.*: *Megilla*; *Oedemer.*: *Asclera ruficollis*.

Hemiptera (1)—*Caps.*: *Lygus*.

Myosurus minimus.—Blooms April 7–May 17; 1 visitor observed, May 8; Mi, Y.

Short-tongued Bees (1)—*Halict.*: *Chloralictus zephyrus* ♀, 1.

Ranunculus abortivus (7:108–9).—Blooms March 31–June 9; 24 visitors observed, April 8–May 11; Mi, Y.

Long-tongued Bees (4)—*Ap.*: *Apis*; *Bomb.*: *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♂; *Nomad.*: *Gnathias ovatus* ♀.

Short-tongued Bees (10)—*Halict.* (♀): *Chloralictus eressonii*, *pilosus*, *sparsus* se, fq, *versatus*, *zephyrus*, *Evyllaenus pectoralis*, *Oxystoglossa confusa*, *similis*, *Seladonia*; *Andren.*: *Opandrena personata* ♂, fq.

Diptera (8)—*Syrph.*: *Chilosia petulea*, *Mesogramma marginata* fq, *Paragus bicolor* fq, *Pipiza nigribarba*, *Sphaerophoria* fq; *Tachin.*: *Apinops*, *Siphona* fq; *Sarcophag.*: *Helicobia heliciis*.

Coleoptera (2)—*Coccinell.*: *Coccinella* 9-notata, *Megilla* f.

Ranunculus fascicularis (7:107–8).—Blooms March 21–May 20; 45 visitors observed, April 11–May 5; Mi, Y.

Long-tongued Bees (9)—*Ap. Apis*; *Ceratin.*: *Ceratina* ♂ ♀, fq, in cop, *Zaodontomerus* ♂; *Megachil.*: *Osmia illinoensis* ♂, *type*, *pumila* ♂ ♀, fq; *Nomad.*: *Gnathias ovatus* ♂ ♀, *Holonomada superba* ♂ ♀, fq, *Nomada sayi* ♂; *Eucer.*: *Tetralonia dilecta* ♂.

Short-tongued Bees (15)—*Halict.* (♀): *Agapostemon radiatus* sc, fq, *Chloralictus pilosus*, *pruinus* sc, *sparsus*, *versatus* sc, fq, *Curtisapis coriacea*, *Evylaeus pectoralis* sc, *Halictus lerouxii*, *Odonatalictus* sc, *Oxystoglossa confusa* sc, fq, *Paralictus simplex type*, *Seladonia* sc; *Andren.*: *Iomelissa* ♂, *Opandrena cressonii* ♀, sc, *miserrabilis* ♂.

Diptera (18)—*Syrph.*: *Chilosia capillata*, *Eristalis transversus* f, *Melanostoma mellinum*, *Mesogramma geminata* fq, *marginata* sf, fq, *Orthoneura pictipennis*, *Paragus bicolor*, *Pipiza femoralis* fq, *Sphaerophoria* sf, *Syrphus americanus*, *arcuatus*, *Xylota fraudulosa*; *Bombyli.*: *Bombylius major*; *Tachin.*: *Gonia capitata*; *Sarcophag.*: *Sarcophaga cimbicis*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Coenosia antica*, *Phorbia acra* fq.

Lepidoptera (2)—*Papilion.*: *Eurymus*; *Hesperi.*: *Thanaos juvenalis*.

Coleoptera (1)—*Oedemer.*: *Asclera ruficollis* f, n.

Ranunculus recurvatus.—Blooms April 30–May 21; 5 visitors observed, May 10, 11, Mi, Y.

Long-tongued Bees (1)—*Nomad.*: *Nomada parva* ♂ ♀.

Short-tongued Bees (4)—*Halict.* (♀): *Chloralictus obscurus*, *Oxystoglossa confusa*, *similis*; *Andren.*: *Opandrena cressonii* ♂.

Ranunculus septentrionalis (7: 105–7).—Blooms April 8–May 24; 52 visitors observed, April 12–May 7; Mi, Y.

Long-tongued Bees (7)—*Ceratin.*: *Ceratina* ♂ ♀, sc, ab, *Zaodontomerus* ♂; *Megachil.*: *Ceratosmia* ♀, sc, *Diceratosmia* ♀, c, *Monilosmia* ♂, *Osmia pumila* ♂ ♀, sc, ab; *Eucer.*: *Tetralonia belfragei* ♂.

Short-tongued Bees (16)—*Halict.* (♀): *Chloralictus obscurus* sc, fq, *pilosus* sc, *sparsus*, *zephyrus*, *Curtisapis coriacea* sc, fq, *Evylaeus pectoralis* sc, 4-maculatus fq, *Halictus lerouxii* sc, *Odonatalictus* sc, *Oxystoglossa confusa* sc, ab, *pura*, *Seladonia* sc; *Sphecodini*: *Proteraner ranunculi* ♂, *type*; *Andren.*: *Opandrena cressonii* ♀, sc, *personata* ♂, *Ptilandrena polemonii* ♂ ♀, ab.

Diptera (19)—*Syrph.*: *Chilosia capillata* ab, *Melanostoma obscurum*, *Mesogramma geminata*, *Pipiza femoralis*, *nigribarba*, *Sphaerophoria*, *Syrphus americanus*, *arcuatus*, *ribesii*, *torvus*; *Bombyli.*: *Bombylius major*, *pulehellus*; *Tachin.*: *Siphona*; *Musc.*: *Morellia*; *Anthomy.*: *Anthomyia radicum*, *pluvialis*, *Hylemyia dilatata* fq, *Mydaea diruta*, *Phorbia platura*.

Lepidoptera (3)—*Hesperis*: *Thanaos brizo*, *juvenalis*, *Thorybes bathyllus*.

Coleoptera (7)—*Anthic.*: *Corphyra terminalis* sf; *Carab.*: *Lebia* n; *Chrysomel.*: *Diabrotica vittata* f, n; *Coccinell.*: *Megilla* f, n; *Curculion.* (n): *Centrinus perseillus* f, *Idiostethus subcalvus*; *Oedemer.*: *Asclera ruficollis* f, n.

Thalictrum dasycarpum (anemophilous).—One visitor observed, June 3.

Long-tongued Bees (1)—*Ap.*: *Apis* c, fq.

RHAMNACEAE

Ceanothus americanus (2: 303-4).—Blooms May 27-July 2; 121 visitors observed, June 16-July 4; Pol, W.

Long-tongued Bees (6)—*Bomb.*: *Bombias auricomus* ♀, c, *separatus* ♀ ♀, se; *Ceratin.*: *Ceratina* ♂; *Megachil.*: *Neotrypetes truncatus* ♂ ♀, se; *Megachile brevis* ♀, se; *Nomad.*: *Centrias americanus* ♀.

Short-tongued Bees (18)—*Halict.*: *Chloralictus sparsus* ♀, se, *versatus* ♂ ♀, se, *Curtisapis forbesii* ♂, *Evyllaenus arcuatus* ♀, se, *type*, *pectoralis* ♀, se, *truncatus* ♀, se, *Oxystoglossa confusa* ♀, se, *Seladonia* ♀, se; *Sphecodini*: *Sphecodes minor* ♀, *Sphecodium cressonii* ♂ ♀; *Prosopid.*: *Prosopis pygmaea* ♂ ♀, *ziziae* ♂ ♀; *Collet.*: *Colletes eulophi* ♂ ♀, *willistonii* ♀; *Andren.*: *Andrena platyparia* ♀, *Trachandrena crataegi* ♀, se; *Macropid.*: *Macropis* ♂ ♀, fq; *Panurg.*: *Calliopsis andreniformis* ♂.

Other Hymenoptera (35)—*Sphec.*: *Isodontia apicalis*, *Seeliphron*, *Sphex nigricans*; *Scoli.*: *Elis 5-cincta*; *Philanth.*: *Cereeris clypeata*, *compacta*, *compar*, *finitima*, *robertsonii*, *rufinoda*; *Vesp.*: *Polistes variatus*; *Eumen.*: *Ancistrocerus tigris*, *Eumenes fraternus*, *Leionotus dorsalis*, *foraminatus*, *fulvipes*, *fundatus*, *illinoensis*, *ziziae*; *Crabron.*: *Solenius*; *Oxybel.*: *Notoglossa americana*, *frontalis*, *Oxybelus packardii*, 4-notatus; *Larr.*: *Tachysphex acutus*, *belfragei*; *Pompil.*: *Anoplius illinoensis*, *Ceropales robinsonii*, *Poecilopompilus navus*, *Pompiloides marginatus*, *Psammochares relativus*, *tenebrosus*; *Chrysid.*: *Hedychrum violaceum*; *Chalcid.*: *Leucospis*; *Tenthredin.*: *Hylotoma humeralis*.

Diptera (42)—*Mycetophil.*: *Sciara atrata*; *Stratiomy.*: *Nemotelus*; *Syrph.*: *Allograpta*, *Mesogramma geminata*, *marginata*, *Orthoneura nitida*, *Paragus bicolor*, *Sphaerophoria*, *Syritta*, *Syrphus americanus*, *Tropidia mamillata*, *quadrata*; *Empid.*: *Parempis*; *Bombyli.*: *Anthrax sinuosa*; *Conop.*: *Conops brachyrhynchus*, *Oncomyia*, *Stylogaster biannulata*, *Zodion fulvifrons*;

Tachin.: Archytas analis, aterrima, Cistogaster occidua, Exorista confinis, Linnaemyia, Ocyptera tenuis, Pachyophthalmus signatus, Paradidyma, Phorantha purpurascens, Siphona, Spallanzania, Trichophora, Xanthomelana; *Sarcophag.*: Helicobia helicis, Sarcophaga sinuata; *Musc.*: Lucilia caesar, Morellia, Musca, Phormia regina, Pseudopyrellia; *Anthomy.*: Limnophora, Phorbia acra; *Seps.*: Sepsis; *Trypet.*: Trypeta humilis.

Lepidoptera (2)—*Lycaen.*: Thecla calanus, sylvinus.

Coleoptera (14)—*Cerambyc.*: Typocerus sinuatus; *Chrysomel.*: Diabrotica atripennis, 12-punctata, Pachybrachys; *Curculion.*: Centrinites, Centrinus picumnus, scutellum-album; *Dermest.*: Cryptorhopalum haemorrhoidale; *Elater.*: Limonius; *Lampyr.*: Telephorus scitulus; *Malach.*: Attalus; *Mordell.*: Mordella marginata; *Oedemer.*: Oxacis; *Scarabae.*: Trichius piger.

Hemiptera (4)—*Caps.*: Calocoris, Lygus; *Cyan.*: Canthophorus; *Lygae.*: Lygaeus.

Rhamnus lanceolata (9: 157-9).—Blooms April 23–May 14; 51 visitors observed on May 14; Mis, Y.

Long-tongued Bees (4)—*Ap.*: Apis; *Bomb.*: Bombus americanorum ♀; *Ceratin.*: Ceratina ♂; *Nomad.*: Gnathias cuneatus ♀.

Short-tongued Bees (23)—*Halict.* (♀): Agapostemon radiatus fq, Augochlora viridula, Chloralictus illinoensis, pilosus sc, fq, pruinosus sc, sparsus sc, ab, versatus sc, fq, zephyrus sc, Curtisapis forbesii sc, Evylaeus arcuatus sc, foxii sc, fq, Halictus lerouxii sc, Oxystoglossa confusa sc, fq, pura sc, Seladonia sc, ab; Sphecodini: Sphecodium cressonii; *Andren.*: Andrena erythrogastra ♂, mandibularis ♀, nasonii ♀, sc, type, Opandrena cressonii ♂ ♀, sc, ab, miserabilis ♂, personata ♂ ♀, sc, fq, Trachandrena crataegi ♂.

Other Hymenoptera (3)—*Eumen.*: Ancistrocerus tigris, Eumenes fraternus; *Tenthredin.*: Dolerus arvensis.

Diptera (21)—*Syrph.*: Allograpta fq, Helophilus similis, Mesogramma geminata ab, marginata, Orthoneura nitida, Pipiza femoralis, Sphaerophoria fq, Syrretta, Syrphus americanus, ribesii, Xanthogramma felix; *Empid.*: Rhamphomyia priapulius; *Tachin.*: Peleteria; *Sarcophag.*: Cynomyia, Sarcophaga cimbicis, sinuata; *Musc.*: Lucilia caesar, sericata; *Anthomy.*: Phorbia acra fq, platura fq; *Scatophag.*: Scatophaga.

ROSACEAE

Agrimonia striata.—Blooms July 3–September 7; 1 visitor observed, July 24; Mi, Y.

Short-tongued Bees (1)—*Halict.*: Chloralictus versatus ♀, sc.

Amelanchier canadensis (15: 446-7).—Blooms March 26-May 1; 51 visitors observed, April 10-22; Mis, W.

Long-tongued Bees (6)—*Ap.*: *Apis* se, ab; *Bomb.*: *Bombus americanorum* ♀, *ridingsii* ♀; *Ceratin.*: *Ceratina* ♂; *Nomad.*: *Nomada denticulata* ♂, *illinoensis* ♂.

Short-tongued Bees (27)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus caeruleus type*, *cressonii*, *pilosus* se, fq, *sparsus*, *versatus* se, ab, *zephyrus* ab, *Evyllaenus arcuatus* se, fq, *foxii*, *Halictus lerouxii*, *Seladonia* se; *Collet.*: *Colletes inaequalis* ♂ ♀, fq; *Andren.*: *Andrena carlini* ♂ ♀, *erythrogastra* ♂ ♀, fq, *erythronii* ♂, *mandibularis* ♂, *salicis* ♂ ♀, fq, *salictaria* ♀, fq, *sayi* ♂ ♀, fq, *Opandrena cressonii* ♂ ♀, se, ab, *miserabilis* ♂ ♀, ab, *Parandrena* ♂ ♀, fq, *Trachandrena claytoniae* ♂ ♀, fq, *forbesii* ♂ ♀, fq, *type*, *hippotes* ♂ ♀, *mariae* ♂, *rugosa* ♂.

Other Hymenoptera (1)—*Tenthredin.*: *Dolerus arvensis*.

Diptera (17)—*Syrph.*: *Brachypalpus frontosus*, *Eristalis aeneus*, *dimidiatus* fq, *transversus*, *Helophilus similis*, *Mesogramma geminata*, *marginata*, *Platychirus quadratus*, *Sphaerophoria*, *Syrphus americanus* fq; *Bombyli.*: *Bombylius major*; *Tachin.*: *Euphorocera claripennis*, *Gonia capitata*; *Sarcophag.*: *Cynomyia* fq; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Hammomyia*; *Scatophag.*: *Scatophaga* fq.

Aruncus sylvester (15: 437; 16: 165-9).—Blooms May 24-June 20; 78 visitors observed, June 4-20; Mis, W.

On staminate flowers (43):—

Long-tongued Bees (3)—*Megachil.*: *Neotrypetes truncatus* ♂; *Nomad.*: *Centrias americanus* ♀, *Holonomada affabilis* ♂.

Short-tongued Bees (6)—*Halict.*: *Chloralictus versatus* ♀; *Prosopid.*: *Prosopis pygmaea* ♀; *Andren.*: *Opandrena personata* ♀, *serotina* ♂, *Trachandrena nuda* ♀, se, *spiraeana* ♀, se, ab, *type*, *oligolege*.

Other Hymenoptera (3)—*Eumen.*: *Eumenes fraternus*; *Cra-bron.*: *Anacrabro*; *Oxybel.*: *Notoglossa frontalis*.

Diptera (7)—*Syrph.*: *Chilosia pallipes*, *Chrysogaster nigripes*, *Sphegina rufiventris*; *Empid.*: *Empis distans* fq; *Conop.*: *Zodion nanellum*; *Agromyz.*: *Phytomyza palpalis type*; *Oscin.*: *Siphonella cinerea*.

Coleoptera (23)—*Bruch.*: *Bruchus hibisci*; *Cerambyc.*: *Acmaeops directa*, *Leptura exigua*, *vittata*, *Typocerus badius*, *lugubris*; *Chrysomel.*: *Disonycha*; *Curculion.*: *Centrinus picumnus* ab; *Elater.*: *Seracosomus*; *Malach.*: *Anthocomus*, *Attalus* fq, *Melyris* fq; *Mordell.*: *Mordellistena biplagiata* fq, *lutea*, *ornata*.

tosta, *Pentaria* fq; *Nitidul.*: *Epurea labilis*, *truncatella*; *Oedermer.*: *Asclera puncticollis*; *Scarabae.*: *Trichius affinis*, *piger*, *Valgus*.

Hemiptera (1)—*Caps.*: *Lopidea*.

On staminate and pistillate flowers (19):—

Short-tongued Bees (10)—*Halict.*: *Chloralictus sparsus* ♂ ♀, sc, ab, *Evylaeus arcuatus* ♀, sc, *foxii* ♀; *Prosopid.*: *Prosopis illinoensis* ♂ ♀, fq, *saniculae* ♂ ♀, fq, *sayi* ♂ ♀, ab, *ziziae* ♀, fq; *Andren.* (♀): *Andrena platyparia*, *Opandrena cressonii*, *Trachandrena crataegi*, sc, ab.

Coleoptera (9)—*Cerambyc.*: *Euderces* ab, *Leptura pubera*; *Dermest.*: *Anthrenus musaeorum* ab, *Cryptorhopalum haemorrhoidale* fq, *triste* ab, *Orphilus* ab; *Mordell.*: *Mordella marginata* ab, *Mordellistena aspersa* fq, *pubescens*.

On pistillate flowers (16):—

Long-tongued Bees (4)—*Ceratin.*: *Ceratina* ♀, *Zaodontomerus* ♂; *Nomad.*: *Gnathias cuneatus* ♀, *ovatus* ♀.

Short-tongued Bees (7, ♀)—*Halict.*: *Agapostemon radiatus*, *Chloralictus tegularis*, *Curtisapis coriacea*, *Evylaeus pectoralis*, *Oxystoglossa confusa*, *pura*; *Andren.*: *Andrena pruni*.

Other Hymenoptera (1)—*Crabron.*: *Blepharipus*.

Diptera (3)—*Syrph.*: *Allograpta*, *Syrphus ribesii*; *Tachin.*: *Epigrimyia floridensis*.

Coleoptera (1)—*Cerambyc.*: *Molorchus*.

The following 35 species and 70 individuals were taken on the flowers, June 8 and 11:

Long-tongued Bees (4:5)—*Ceratin.*: *Ceratina* 2, *Zaodontomerus* 1; *Nomad.*: *Gnathias cuneatus* 1, *ovatus* 1.

Short-tongued Bees (14:42)—*Halict.*: *Agapostemon radiatus* 1, *Chloralictus sparsus* 7, *tegaris* 1, *Curtisapis coriacea* 1, *Evylaeus arcuatus* 1, *foxii* 1, *pectoralis* 2, *Oxystoglossa confusa* 1, *pura* 1; *Prosopid.*: *Prosopis illinoensis* 3, *saniculae* 4, *sayi* 7, *ziziae* 2; *Andren.*: *Andrena platyparia* 1, *pruni* 1, *Opandrena cressonii* 1, *Trachandrena crataegi* 5.

Other Hymenoptera (1:1)—*Crabron.*: *Blepharipus* 1.

Diptera (3:3)—*Syrph.*: *Allograpta* 1, *Syrphus ribesii* 1; *Tachin.*: *Epigrimyia floridensis* 1.

Coleoptera (10:19)—*Cerambyc.*: *Euderces* 1, *Leptura pubera* 1, *Molorchus* 2; *Dermest.*: *Anthrenus musaeorum* 1, *Cryptorhopalum haemorrhoidale* 3, *triste* 7, *Orphilus* 1; *Mordell.*: *Mordella marginata* 1, *Mordellistena aspersa* 1, *pubescens* 1.

Crataegus coccinea? (15:444-5).—Blooms April 13-May 22; 56 visitors observed, May 4-12; Mis, W.

Long-tongued Bees (5)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombus americanorum* ♀, fq, *impatiens* ♀; *Ceratin.*: *Ceratina* ♂; *Nomad.*: *Centrias americanus* ♂.

Short-tongued Bees (15)—*Halict.* (♀): *Chloralictus sparsus*, *versatus*, *zephyrus* fq, *Halictus lerouxii*, *Odontalictus*, *Seladonia* fq; *Andren.*: *Andrena dunningii* ♀, se, fq, *erythrogastra* ♂, *sayi* ♂ ♀, se, fq, *Opandrena eressonii* ♂ ♀, *miserabilis* ♂ ♀, se, ab, *personata* ♂, fq, *Trachandrena claytoniae* ♂, fq, *crataegi* ♂ ♀, ab, *type*, *hippotes* ♂.

Other Hymenoptera (3)—*Vesp.*: *Polistes pallipes*, fq, *variatus*; *Tiphi.*: *Tiphia clypeata*, *type*.

Diptera (25)—*Stratiomy.*: *Microchrysa*; *Syrph.*: *Eristalis aeneus*, *dimidiatus*, *Helophilus similis*, *Mallota cimbiciformis*, *Mesogramma geminata*, *Myiolepta strigilata* fq, *Pipiza nigribarba*, *Psilota*, *Syrphus torvus*; *Empid.*: *Empis avida type*, *Rhamphomyia priapulus*, *sordida*; *Bombyli.*: *Bombylius major*, *pulehellus*; *Conop.*: *Myopa vesiculosa*; *Tachin.*: *Gonia capitata*; *Sarcophag.*: *Calliphora erythrocephala*, *Cynomyia*, *Sarcophaga sinuata*; *Musc.*: *Compso-myia*, *Lucilia caesar*, *Morellia*, *Phormia regina*, *Pseudopyrellia* fq.

Lepidoptera (2)—*Nymphal.*: *Anosia*, *Vanessa huntera*.

Coleoptera (6)—*Cerambyc.*: *Molorehus* fq, in cop; *Chrysomel.*: *Diabrotica vittata*; *Coccinell.*: *Coccinella sanguinea*, *Hippodamea 15-maculata*; *Oedemer.*: *Asclera puncticollis*; *Scarabac.*: *Euphoria fulgida*.

Crataegus crus-galli (15: 445-6).—Blooms May 1-June 1; 75 visitors observed, May 17-29; Mis, W.

Long-tongued Bees (9)—*Ap.*: *Apis* se, ab; *Bomb.* (♀): *Bombias auricomus*, *separatus*, *Bombus americanorum*, *impatiens*; *Ceratin.*: *Ceratina* ♂; *Megachil.*: *Prochelostoma* ♂, *Anthemois* ♂; *Eucel.*: *Tetralonia dilecta* ♂.

Short-tongued Bees (26)—*Halict.* (♀, se): *Chloralictus pilosus* ab, *sparsus* ab, *tegularis* fq, *versatus* ab, *zephyrus*, *Evyllaenus foxii* fq, *pectoralis*, *Oxystoglossa similis* fq, *Seladonia* ab; *Prosopid.*: *Prosopis crataegi* ♂, *illinoensis* ♂, *pygmaea* ♂ ♀, ab, *saniculae* ♂, *ziziae* ♂ ♀, ab; *Collet.*: *Colletes inaequalis* ♀, se; *Andren.*: *Andrena dunningii* ♀, se, *erythrogastra* ♀, *mandibularis* ♀, se, *sayi* ♀, se, *Opandrena eressonii*, ♂ ♀, se, fq, *miserabilis* ♂ ♀, se, ab, *personata* ♂ ♀, se, ab, *Parandrena* ♀, *Trachandrena claytoniae* ♀, se, fq, *crataegi* ♂ ♀, se, ab, *forbesii* ♀, se.

Other Hymenoptera (10)—*Vesp.*: *Polistes pallipes*; *Eumen.*: *Ancistrocerus capra*, *tigris*, *Eumenes fraternus* fq, *Leionotus anormis*, *foraminatus*, *Symmorphus debilis*, *walshianus*; *Crabron.*: *Rhopalum scutellatum*; *Pemphredon.*: *Cemonus*.

Diptera (23)—*Stratiomy.*: *Stratiomyia quaternaria*; *Syrph.*: *Didea*, *Eristalis dimidiatus*, *latifrons*, *transversus*, *Helophilus similis*, *Mallota cimbiciformis*, *Mesogramma geminata*, *Orthoneura nitida*, *Syritta*, *Volucella vesiculosa*, *Xanthogramma emarginata*; *Empid.*: *Empis distans*, *Rhamphomyia mutabilis*; *Bombyli.*: *Bombylius major*; *Sarcophag.*: *Cynomyia*, *Helicobia 4-setosa*; *Musc.*: *Morellia*, *Phormia regina*, *terraenovae*; *Anthomy.*: *Phorbia acra*, *platura*; *Ortal.*: *Camptoneura*.

Lepidoptera (3)—*Nymphal.*: *Anosia*; *Lycaen.*: *Cyaniris*; *Papilion.*: *Laertias*.

Coleoptera (4)—*Buprest.*: *Aemaedera culta*; *Cerambyc.*: *Molorchus*; *Cler.*: *Enoplium*; *Scarabae.*: *Euphoria fulgida*.

Crataegus mollis (15:443-4).—Blooms April 10–May 17; 73 visitors observed, April 27–May 9; Mis, W.

Long-tongued Bees (4)—*Ap.*: *Apis* sc, ab; *Bomb.*: *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♂; *Eucer.*: *Tetralonia dilecta* ♂ ♀.

Short-tongued Bees (28)—*Halict.* (♀): *Augochlora viridula*, *Chloralictus cressonii*, *pilosus* sc, *sparsus* sc, ab, *versatus*, *zephyrus* sc, ab, *Evylaeus arcuatus* sc, *foxii* sc, *pectoralis* sc, fq, *Halictus lerouxii* sc, fq, *Oxystoglossa confusa* sc, *Seladonia* sc, fq; *Collet.*: *Colletes inaequalis* ♂ ♀; *Andren.*: *Andrena dunningii* ♀, sc, ab, *mandibularis* ♀, sc, *nasonii* ♂, *pruni* ♀, sc, *sayi* ♂ ♀, sc, fq, *Opan-drena cressonii* ♂ ♀, sc, ab, *miserabilis* ♂ ♀, fq, *Trachandrena claytoniae* ♂ ♀, fq, *crataegi* ♂ ♀, ab, *forbesii* ♀, sc, *hippotes* ♂, *nuda* ♂ ♀, *rugosa* ♂, fq.

Other Hymenoptera (4)—*Vesp.*: *Polistes pallipes*, *variatus*, *Vespula germanica*; *Eumen.*: *Ancistrocerus tigris*.

Diptera (30)—*Syrph.*: *Brachypalpus frontosus*, *Chilosia punctulata*, *Chrysogaster ontario*, *Criorhina umbratilis*, *Eristalis dimidiatus*, *Helophilus similis*, *Myiolepta strigilata* fq, *Orthoneura pictipennis*, *Pipiza nigribarba*, *Psilota*, *Syrphus americanus*, *Xylota fraudulosa*; *Empid.*: *Empis avida*, *humilis*, *nuda*, *otiosa*, *Rhamphomyia piligeronis*, *priapulul* fq, *sordida* fq, in cop, *tersa*; *Bombyli.*: *Bombylius major*; *Conop.*: *Myopa vesiculosa* fq, in cop; *Tachin.*: *Alophora grandis*, *cotype*; *Sarcophag.*: *Calliphora erythrocephala*, *vomitorea*, *Cynomyia*; *Musc.*: *Morella*, *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Phorbia platura*.

Lepidoptera (1)—*Nymphal.*: *Polygonia interrogationis*.

Coleoptera (6)—*Cerambyc.*: *Molorchus*; *Chrysomel.*: *Diabrotica vittata*, *Disonycha*; *Cler.*: *Enoplium*; *Oedemer.*: *Asclera puncticollis*; *Scarabae.*: *Euphoria fulgida*.

Fragaria virginiana illinoensis (15:440).—Blooms April 13–June 11; 57 visitors observed, April 25–May 15; Mi, W.

Long-tongued Bees (12)—*Ap.*: *Apis*; *Bomb.*: *Bombus impatiens* ♀; *Ceratin.*: *Ceratina* ♂ ♀, se, fq; *Megachil.*: *Osmiini*: *Osmia atriventris* ♂ ♀, se, illinoensis ♂, pumila ♀, se; *Coelioxyni*: *Coelioxys* 8-dentata ♂; *Nomad.*: *Gnathias ovatus* ♀, *Holonomada superba* ♂, *Nomada illinoensis* ♀; *Melict.*: *Bombomelecta* ♀; *Eucer.*: *Tetralonia dilecta* ♂.

Short-tongued Bees (15)—*Halict.* (♀): *Chloralictus pilosus* se, fq, *tegularis*, *versatus* se, fq, *Evyllaecus pectoralis* se, fq, *Odonalictus* se, *Oxystoglossa confusa* se, *pura* se, *similis* se, ab, *Seladonia* se, ab; *Sphæcodini*: *Machaeris stygia*; *Prosopid.*: *Prosopis pygmaea* ♀, *ziziae* ♂; *Andren.*: (♀, se): *Andrena nasonii* fq, *Opandrena cressonii*, *Trachandrena forbesii*.

Other Hymenoptera (1)—*Vesp.*: *Polistes variatus*.

Diptera (21)—*Stratiomy.*: *Nemotelus*; *Syrph.*: *Eristalis transversus*, *Helophilus similis*, *Mesogramma marginata*, *Orthoneura pietipennis* fq, *Paragus bicolor* fq, *Sphaerophoria* fq, *Tropidia mamillata*; *Empid.*: *Empis humilis*, *Rhamphomyia priapulus*; *Bombyli.*: *Bombylius pulchellus*; *Conop.*: *Myopa vesiculosa*, *Zodion fulvifrons*; *Tachin.*: *Gymnosoma*, *Peleteria*; *Sarcophag.*: *Helicobia helicis*, *Sarcophaga sinuata* fq; *Musc.*: *Lucilia caesar*, *sylvarum*; *Anthomy.*: *Phorbia acra*, *platura*.

Lepidoptera (7)—*Nymphal.*: *Phyciodes*; *Lycæn.*: *Everes*; *Papilion.*: *Eurymus*, *Pieris*; *Hesper.*: *Pholisora catullus*, *Thanaos juvenalis*; *Noctu.*: *Plusia simplex*.

Hemiptera (1)—*Nab.*: *Coriseus*.

Geum canadense (15:439).—Blooms June 18–September 27; 22 visitors observed, July 6–11; Mi, W.

Long-tongued Bees (1)—*Pasit.*: *Holcopasites illinoensis* ♀.

Short-tongued Bees (9)—*Halict.*: *Chloralictus pilosus* ♀, *pruinus* ♀, se, *sparsus* ♀, se, *tegularis* ♀, *versatus* ♀, se, *Oxystoglossa similis* ♂ ♀, se, *Seladonia* ♂; *Prosopid.*: *Prosopis pygmaea* ♂; *Panurg.*: *Calliopsis andreniformis* ♂.

Other Hymenoptera (6)—*Philanth.*: *Cerceris compacta*; *Eumen.*: *Eumenes fraternus*, *Leionotus histrionalis*, *ziziae*; *Cra-bron.*: *Solenius*; *Chrysid.*: *Hedychrum violaceum*.

Diptera (3)—*Syrph.*: *Mesogramma marginata*; *Tachin.*: *Ocyptera dosiades*; *Sarcophag.*: *Helicobia helicis*.

Coleoptera (2)—*Cerambyc.*: *Euderees*; *Mordell.*: *Mordella marginata*.

Hemiptera (1)—*Corimelaen.*: *Corimelaena pulicaria*.

Geum vernum (15:439-40).—Blooms April 12–May 24; the first 100 individuals, belonging to 18 species, were taken May 1–15; Mi, Y.

Long-tongued Bees (2:17)—*Ceratin.*: *Zaodontomerus* ♂, 1; *Nomad.*: *Nomada parva* ♂ ♀, 16.

Short-tongued Bees (13:67)—*Halict.* (♀): *Chloralictus sparsus* 7, *regularis* 1, *versatus* 4, *Evylaeus foxii* 1, *pectoralis* 3, *Oxystoglossa confusa* sc, 3, *similis* sc, 6, *Seladonia* 3; *Sphecodini*: *Sphecodium cressonii* 1; *Prosopid.* (♂): *Prosopis pygmaea* 2, *sayi* 1, *ziziae* 2; *Andren.*: *Opandreana personata* ♂ ♀, 33.

Diptera (3:16)—*Syrph.*: *Mesogramma geminata* 2, *Paragus bicolor* 3; *Tachin.*: *Siphona* 11.

Gillenia stipulacea (16:169-70).—Blooms June 3–July 7; 25 visitors observed, June 15–30; Ma, W.

Long-tongued Bees (11)—*Ceratin.*: *Ceratina* ♀, sc, ab, *Zaodontomerus* ♂; *Megachil.*: *Trypetini*: *Neotrypetes truncatus* ♂ ♀, sc, fq; *Osmiini*: *Alcidamea simplex* ♂ ♀, sc, ab, *truncata* ♀, sc, *Leucosmia* ♀, sc, *Osmia atriventris* ♀, *distincta* ♀, sc, ab; *Megachilini*: *Megachile addenda* ♀, sc; *Nomad.*: *Holonomada affabilis* ♀; *Anthophor.*: *Anthemoessa* ♂.

Short-tongued Bees (6)—*Halict.*: *Chloralictus sparsus* ♀, c, fq, n, *versatus* ♀, sc, *Evylaeus pectoralis* ♂ ♀, sc, 4—*maculatus* ♀; *Panurg.*: *Calliopsis andreniformis* ♂, *Heterosarus* ♂ ♀, sc, ab.

Diptera (4)—*Syrph.* (f, n): *Baccha fuscipennis*, *Pipiza nigri-barba*; *Bombyli.*: *Bombylius atriceps*; *Conop.*: *Stylogaster bianulata* fq.

Lepidoptera (4)—*Papilion.*: *Euphœades*, *Laertias*; *Hesperi.*: *Thorybes bathyllus*, *pylades*.

Potentilla canadensis (15:441).—Blooms April 23–June 17; 30 visitors observed, May 14–June 2; Mi, Y.

Long-tongued Bees (8)—*Bomb.*: *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♂ ♀, fq, *Zaodontomerus* ♂; *Stelid.*: *Microstelis* ♂; *Megachil.*: *Alcidamea simplex* ♂, *Osmia pumila* ♀; *Nomad.*: *Centrias americanus* ♂, *Nomada parva* ♂.

Short-tongued Bees (10)—*Halict.* (♀): *Chloralictus versatus*, *Evylaeus pectoralis*, *Odontalictus*, *Oxystoglossa confusa* sc, ab, *similis* sc, ab, *Seladonia*; *Sphecodini*: *Proteraner*, *Sphecodium cressonii*; *Prosopid.*: *Prosopis ziziae* ♂; *Andren.*: *Opandreana personata* ♂ ♀, ab.

Other Hymenoptera (4)—*Eumen.*: *Leionotus anormis*, *clypeatus* fq, *histrionalis*, *ziziae*.

Diptera (7)—*Syrph.*: *Paragus tibialis*, *Syritta*; *Tachin.*: *Apinops*, *Cistogaster occidua*; *Sarcophag.*: *Helicobia helieis*; *Musc.*: *Lucilia caesar*; *Anthomy.*: *Phorbia platura*.

Lepidoptera (1)—*Nymphal.*: *Phyciodes*.

Potentilla monspeliensis norvegica.—Blooms May 19–November 19; 23 visitors observed, July 25, 27; Mi, Y.

Short-tongued Bees (13)—*Halict.*: *Agapostemon radiatus* ♂, fq, *Chloralictus pilosus* ♂, sparsus ♀, se, fq, versatus ♂ ♀, se, fq, *Evylaeus pectoralis* ♀, *Odontalictus* ♂, *Oxystoglossa similis* ♀, se, *Seladonia* ♂ ♀, fq; *Sphecodini*: *Sphecodes arvensis* ♀, *Sphecodium cressonii* ♀; *Prosopid.*: *Prosopis pygmaea* ♂ ♀, fq, *ziziae* ♀; *Panurg.*: *Calliopsis andreniformis* ♂.

Other Hymenoptera (1)—*Oxybel.*: *Notoglossa frontalis* fq.

Diptera (8)—*Syrph.*: *Mesogramma geminata*, *marginata*, *Sphaerophoria* fq, *Syritta*; *Conop.*: *Oncomyia*; *Tachin.*: *Gymnoprosope*; *Sarcophag.*: *Helicobia helieis*; *Anthomy.*: *Phorbia aera*.

Lepidoptera (1)—*Lycaen.*: *Everes*.

Prunus americana (15: 435–6).—Blooms March 31–May 5; 76 visitors observed, April 17–29; Mis, W.

Long-tongued Bees (14)—*Ap.*: *Apis* se, ab; *Bomb.*: *Bombus americanorum* ♀, *impatiens* ♀; *Ceratin.*: *Ceratina* ♂, ab, *Zaodontomerus* ♂, fq; *Nomad.*: *Gnathias ovatus* ♂, *Heminomada* ♂ ♀, fq, *Holonomada superba* ♂, *Nomada denticulata* ♂, *illinoensis* ♂ ♀, *Phor* ♂, *Xanthidium luteoloides* ♀, *luteolum* ♀; *Eucer.*: *Tetralonia dilecta* ♂ ♀, ab.

Short-tongued Bees (26)—*Halict* (♀): *Agapostemon radiatus*, *Chloralictus pilosus* se, ab, *pruinus* se, ab, *sparsus*, *tegularis*, *versatus* se, ab, *zephyrus* se, *Evylaeus arcuatus*, *Haliectus lerouxii* se, *Seladonia* se; *Sphecodini*: *Sphecodes arvensis*; *Prosopid.*: *Prosopis pygmaea* ♂; *Collet.*: *Colletes inaequalis* ♂ ♀, fq; *Andren.*: *Andrena erythrogastra* ♂ ♀, ab, *erythronii* ♀, se, *illinoensis* ♂, fq, *mandibularis* ♀, *pruni* ♂, *salicis* ♂, *sayi* ♂ ♀, se, fq, *Opandrena cressonii* ♂ ♀, se, ab, *miserabilis* ♂ ♀, se, ab, *Parandrena* ♂ ♀, ab, *Trachandrena claytoniae* ♂ ♀, se, ab, *forbesii* ♂, *hippotes* ♂ ♀, se, fq.

Other Hymenoptera (3)—*Vesp.* *Polistes pallipes*, *variatus*; *Ichneumon.*: *Bathycetes*.

Diptera (23)—*Syrph.*: *Brachypalpus frontosus*, *Chrysogaster ontario*, *Eristalis dimidiatus*, *Helophilus similis*, *Mesogramma geminata*, *marginata* ab, *Orthoneura nitida*, *Platycheirus hyperboreus*, *Sphaerophoria*, *Syrphus americanus*, *torvus*; *Empid.*: *Empis otiosa* fq, *Rhamphomyia priapulius*; *Bombyli.*: *Bombylius*

major; *Conop.*: *Myopa vesiculosa*; *Tachin.*: *Euphorocera claripennis*, *Gonia capitata* fq; *Sarcophag.*: *Cynomyia* fq; *Musc.*: *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Anthomyiella*, *Phorbia platura* ab; *Oscin.*: *Chlorops versicolor*.

Lepidoptera (7)—*Nymphal.*: *Anosia*, *Vanessa atalanta*, *huntera*; *Papilion.*: *Jasoniades*, *Pontia* fq; *Hesperi.*: *Thanaos juvenalis*; *Noctu.*: *Plusia simplex*.

Coleoptera (3)—*Cerambyc.*: *Molorchus*; *Chrysomel.*: *Orsodachna*; *Scarabae.*: *Valgus*.

***Prunus serotina* (15: 436–7).**—Blooms April 9–May 23; 64 visitors observed, April 9–May 18; Mis, W.

Long-tongued Bees (7)—*Ap.*: *Apis* sc, ab; *Bomb.* (♀): *Bombias separatus*, *Bombus americanorum* fq, *impatiens*; *Ceratin.*: *Zaodontomerus* ♂; *Nomad.*: *Nomada illinoensis* ♀; *Eucer.*: *Tetralonia dilecta* ♂ ♀.

Short-tongued Bees (23)—*Halict.*: *Agapostemon radiatus* ♂, fq, *Augochlora viridula* ♀, *Chloralictus cressonii* ♀, sc, *pilosus* ♀, sc, *sparsus* ♀, sc, fq, *versatus* ♀, sc, fq, *zephyrus* ♀, sc, *Curtisapis coriacea* ♀, sc, fq, *Halictus lerouxii* ♀, sc, fq, *Oxystoglossa similis* ♀, sc, fq, *Seladonia* ♀, sc; *Collet.*: *Colletes inaequalis* ♀; *Andren.*: *Andrena erythrogastra* ♀, *pruni* ♀, sc, fq, *type*, *sayi* ♀, sc, *Opan-drena cressonii* ♂ ♀, sc fq, *miserabilis* ♀, sc, ab, *Trachandrena claytoniae* ♀, sc, fq, *crataegi* ♂, *forbesii* ♀, sc, *hippotes* ♂, *nuda* ♀, sc, *rugosa* ♂.

Other Hymenoptera (2)—*Vesp.*: *Polistes pallipes*; *Tenthredin.*: *Dolerus sericeus*.

Diptera (29)—*Bibion.*: *Scatopse notata* fq; *Simuli.*: *Simulium*; *Stratiomy.*: *Stratiomyia quaternaria*; *Syrph.*: *Brachyopa*, *Eristalis aeneus* fq, *dimidiatus*, *Mallota cimbiciformis*, *Myiolepta strigilata*, *Orthoneura nitida*, *pictipennis*, *Pipiza nigribarba*, *Sphaerophoria*, *Sphegina rufiventris*, *Syritta*, *Syrphus ribesii*; *Empid.*: *Rhamphomyia sordida*; *Conop.*: *Myopa vesiculosa*; *Tachin.*: *Gonia capitata*, *Siphona*; *Sarcophag.*: *Calliphora erythrocephala*, *Cynomyia*, *Sarcophaga cimbicis*; *Musc.*: *Lucilia caesar*, *sericata*, *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*, *platura*; *Scatophag.*: *Scatophaga*.

Lepidoptera (2)—*Nymphal.*: *Anosia*, *Vanessa huntera*.

Coleoptera (1)—*Cerambyc.*: *Molorchus*.

Extra-floral nectaries.—April 25, 1894, the following insects were observed sucking:

Short-tongued Bees (6)—*Halict.* (♀): *Chloralictus illinoensis*, *sparsus*, *versatus*; *Andren.*: *Andrena erythrogastra* ♀, *illinoensis* ♂, *Opan-drena miserabilis* ♀.

Other Hymenoptera (2, ♀)—*Formic.*: *Formica fusca*; *Myrmic.*: *Cremastogaster*.

Diptera (2)—*Syrph.*: *Criorhina umbratilis*; *Sarcophag.*: *Cynomyia*.

***Pyrus coronaria* (15: 442-3).**—Blooms April 10–May 23; 9 visitors observed, May 2–12; Ma, R.

Long-tongued Bees (7)—*Ap.*: *Apis* fq; *Bomb.* (♀): *Bombias auricomus*, *separatus* fq, *Bombus americanorum* ab, *impatiens* ab; *Megachil.*: *Ceratosmia* ♀; *Eucer.*: *Tetralonia dilecta* ♂, fq.

Lepidoptera (2)—*Nymphal.*: *Anosia*; *Hesperi.*: *Thanaos juvenalis*.

***Rosa humilis* (15: 441-2).**—Blooms May 15–July 29; 27 visitors observed, May 22–June 20; Ma, R.

Long-tongued Bees (8, c)—*Bomb.*: *Bombias separatus* ♀ ♂, *Bombus americanorum* ♀, ab, *impatiens* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile brevis* ♀; *Eucer.*: *Tetralonia dilecta* ♀, ab; *Anthophor.*: *Anthemoessa* ♀, ab, *Clisodon* ♀.

Short-tongued Bees (6, ♀, c)—*Halict.*: *Agapostemon radiatus*, *viridulus*, *Augochlora fervida*, *Chloralictus versatus*, *Oxystoglossa confusa*; *Andren.*: *Opandrena cressonii*.

Diptera (11, f)—*Syrph.*: *Allograpta* n, *Mallota cimbiciformis*, *posticata*, *Mesogramma geminata* n, *Baccha fuscipennis* n, *Rhingia* n, *Syrphus americanus* n, *Volucella vesiculosa* fq, n, *Xylota chalybea* n, *fraudulosa* n; *Bombyli.*: *Anthrax sinuosa*.

Coleoptera (2, f)—*Chrysomel.*: *Diabrotica 12-punctata* n; *Scarabae.*: *Trichius piger* ab.

***Rosa setigera* (15: 442).**—Blooms June 9–July 21; 35 visitors observed, June 14–July 7; Ma, R.

Long-tongued Bees (12, c)—*Ap.*: *Apis* fq; *Bomb.*: *Bombias auricomus* ♀ ♂, *separatus* ♀ ♂, ab, *Bombus americanorum* ♀ ♂, fq, *impatiens* ♂; *Megachil.* (♀): *Osmia pumila*, *Megachile addenda*, *mendica* fq, *Xanthosarus*; *Eucer.*: *Tetralonia dilecta* ♀, fq, *rosae* ♀, *type*, *Anthophor.*: *Anthemoessa* ♀, ab.

Short-tongued Bees (6, ♀, c)—*Halict.*: *Agapostemon radiatus*, *viridulus* fq, *Augochlora viridula*, *Chloralictus versatus*, *Curtisapis coriacea* fq, *Evylaeus arcuatus*.

Diptera (16, f)—*Syrph.*: *Allograpta* n, *Eristalis transversus*, *Mallota cimbiciformis* fq, *posticata*, *Milesia* fq, *Myiolepta nigra* n, *Pipiza pistica* n, *pulchella* n, *Syritta* n, *Syrphus americanus* fq, n, *Temnostoma* n, *Xylota angustiventris* n, *chalybea* n; *Bombyli.*: *Anthrax sinuosa*, *Argyramoeba albofasciata*, *oedipus*.

Coleoptera (1, f)—*Scarabae.*: *Trichius piger*.

Rubus canadensis.—Blooms May 2–June 29; 48 visitors observed, May 10–26; Mi, W.

Long-tongued Bees (16)—*Ap.*: *Apis* fq; *Bomb.*: *Bombus americanorum* ♀, ab; *Ceratin.*: *Ceratina* ♂ ♀; *Megachil.*: *Osmiini*: *Alcidamea simplex* ♂ ♀, sc, *Ceratosmia* ♀, sc, *Hoplitis* ♂ ♀, sc, *Osmia atriventris* ♀, sc, *cordata* ♀, *pumila* ♀, sc, fq; *Megachilini*: *Megachile brevis* ♂, *mendica* ♂; *Coelioxyini*: *Coelioxys sayi* ♂ ♀; *Nomad.*: *Centrias americanus* ♀, *Holonomada superba* ♂ ♀, fq; *Eucer.*: *Tetralonia dilecta* ♂ ♀, fq, *rosae* ♂ ♀.

Short-tongued Bees (15)—*Halict.* (♀): *Agapostemon viridulus* sc, *Chloralictus versatus* sc, *Evylaeus pectoralis* sc, *Odontalictus*, *Oxystoglossa similis* sc; *Andren.*: *Andrena carlini* ♀, *nasonii* ♀, sc, *pruni* ♀, sc, *Opandrena cressonii* ♀, sc, *personata* ♂, *Trachandrena claytoniae* ♀, sc, *crataegi* ♀, sc, *forbesii* ♀, *hippotes* ♀, sc, *nuda* ♀, sc.

Other Hymenoptera (2)—*Eumen.*: *Leionotus foraminatus*, *scrophulariae*.

Diptera (6)—*Syrph.*: *Eristalis dimidiatus*, *latifrons*, *Tropidia quadrata*; *Bombyli.*: *Bombylius atriceps* fq; *Conop.*: *Zodion fulvifrons*; *Sarcophag.*: *Helicobia helicis*.

Lepidoptera (9)—*Nymphal.*: *Charidryas*; *Papilion.*: *Eurymus*; *Hesperi.*: *Atrytone zabulon*, *Epargyreus*, *Limochores taumas*, *Pholisora catullus*, *hayhurstii*, *Thanaos juvenalis*, *Thorybes pylades*.

Rubus occidentalis (15: 437–8).—Blooms May 3–June 9; 22 visitors observed, May 12–29; Mi, W.

Long-tongued Bees (10)—*Ap.*: *Apis* fq; *Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♀; *Megachil.*: *Alcidamea simplex* ♂, *Osmia pumila* ♀, *Megachile brevis* ♀; *Nomad.*: *Gnathias ovatus* ♀, *Holonomada affabilis* ♂, fq, *superba* ♂ ♀, fq; *Eucer.*: *Tetralonia dilecta* ♂ ♀.

Short-tongued Bees (5, ♀)—*Halict.*: *Odontalictus*, *Oxystoglossa confusa* sc, *Seladonia*; *Andren.*: *Andrena carlini* sc, *Opandrena cressonii*.

Other Hymenoptera (2)—*Eumen.*: *Leionotus anormis*; *Cra-bron.*: *Solenius*.

Diptera (1)—*Tachin.*: *Archytas aterrima*.

Lepidoptera (4)—*Nymphal.*: *Charidryas*; *Hesperi.*: *Limochores taumas*, *Pholisora catullus*, *Polites*.

Rubus villosus (15: 438–9).—Blooms May 2–July 1; 89 visitors observed, May 12–June 16; Mi, W.

Long-tongued Bees (23)—*Ap.*: *Apis* sc, ab; *Bomb.* (♀): *Bombias auricomus*, *separatus* sc, *Bombus americanorum* sc, fq, im-

patiens, *Psithyrus variabilis*; *Ceratin.*: *Ceratina* ♂ ♀, sc, fq; *Megachil.*: *Osmiini*: *Alcidamea simplex* ♂ ♀, sc, *Ceratostmia* ♀, sc, fq, *Hoplitis* ♀, sc, *Osmia pumila* ♀, sc; *Megachilini*: *Anthemois* ♂, *Megachile brevis* ♂, *mendica* ♀; *Coelioxyini*: *Coelioxys 8-dentata* ♂, *sayi* ♂; *Nomad.*: *Gnathias ovatus* ♀, *Holonomada affabilis* ♂ ♀, fq, *superba* ♂ ♀, fq, *Nomada sayi* ♀; *Eucer.*: *Tetralonia dilecta* ♂ ♀, in cop, *rosae* ♂; *Anthophor.*: *Anthemoessa* ♀.

Short-tongued Bees (27)—*Halict.* (♀): *Agapostemon radiatus*, *Augochlora fervida* sc, *viridula* sc, *Chloralictus sparsus* c, n, *versatus* c, n, *Curtisapis forbesii* sc, *Evylaeus pectoralis* sc, fq, *Halictus lerouxii*, *Odontalictus* sc, *Oxystoglossa confusa* sc, *similis* sc, *Paralictus simplex*, *Seladonia* sc, fq; *Sphecodini*: *Sphecodes arvensis*, *Sphecodium cressonii*; *Prosopid.*: *Prosopis pygmaea* ♀; *Collet.*: *Colletes aestivalis* ♂, *inaequalis* ♀, sc; *Andren.* (♀): *Andrena carlini*, *dunningii*, *mandibularis*, *sayi* sc, *Opandrena personata* sc, *Trachandrena claytoniae*, *crataegi* sc, *forbesii* sc, *nuda*.

Other Hymenoptera (7)—*Sphec.*: *Isodontia apicalis*, *Sphex nigricans*; *Eumen.*: *Leionotus arvensis*, *histrionalis*, *vagus*, *ziziae*; *Crabron.*: *Solenius*.

Diptera (16)—*Syrph.*: *Didea* f, n, *Eristalis dimidiatus* f, n, *Mesogramma marginata* f, n, *Paragus bicolor* n, *Sphaerophoria*, *Syritta* f, *Syrphus ribesii* f, n, *Tropidia mamillata*, *Volucella vesiculosa* fq; *Empid.*: *Empis distans*; *Bombyli.*: *Aldrichia* f, fq, n, *Bombylius atriceps*; *Conop.*: *Zodion fulvifrons*; *Tachin.*: *Archytas aterrima*, *Ocyptera tenuis*, *Spallanzania*.

Lepidoptera (13)—*Nymphal.*: *Anosia*, *Charidryas*, *Vanessa atalanta*; *Lycaen.*: *Chrysophanus*; *Papilion.*: *Eurymus*, *Pontia*; *Hesperi.*: *Atrytone zabulon*, *Epargyreus*, *Euphyes metacomet*, *Limochores taumas*, *Polites* fq, *Thanaos juvenalis*; *Ctenuch.*: *Scepsis*.

Coleoptera (3)—*Scarabae.*: *Euphorea fulgida* f, n, *sepulchralis* f, n, *Trichius piger* sf.

RUBIACEAE

***Cephalanthus occidentalis* (4: 65–7).**—Blooms June 27–August 25; 77 visitors observed, July 5–August 17; Mas, W.

Long-tongued Bees (25)—*Ap.*: *Apis* ab; *Bomb.*: *Bombias auricomus* ♀ ♀, fq, *scutellaris* ♀, *separatus* ♂ ♀ ♀, ab, *Bombus americanorum* ♂ ♀ ♀, sc, ab, *impatiens* ♀, sc, fq, *ridingsii* ♂, *Psithyrus variabilis* ♀; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Megachile brevis* ♂ ♀, fq, *mendica* ♀, c, *petulans* ♀, *6-dentata* ♂ ♀, *Sayapis sayi* ♀; *Nomad.*: *Cephen* ♀; *Epeol.* (♂ ♀): *Triepeolus concavus*, *concolor* fq, *lunatus*; *Eucer.*: *Epimelissodes obliqua* ♂ ♀, sc, fq, *Florilegus* ♀, *Melissodes*

bimaculata ♂, petalostemonis ♀, variabilis ♀, se, Peponapis ♂; *Emphor.*: *Emphor* ♀.

Short-tongued Bees (6)—*Halict.*: *Agapostemon radiatus* ♂, *texanus* ♀, *viridulus* ♀, *Halictus lerouxii* ♀, *Odontalictus* ♀; *Prosopid.*: *Prosopis ziziae* ♀, f, n.

Other Hymenoptera (4)—*Sphec.*: *Sphex nigricans*; *Scoli.*: *Elis 5-cincta*; *Eumen.*: *Leionotus arvensis*; *Pompil.*: *Priocnemoides fulvicornis*.

Diptera (10)—*Syrph.*: *Eristalis latifrons*, *tenax* ab, *Sphaerophoria*, *Syritta*, *Volucella evecta*, *vesiculosa*; *Conop.*: *Conops brachyrrhynchus*, *Physocephala texana*, *tibialis*; *Musc.*: *Musca*.

Lepidoptera (29)—*Nymphal.*: *Anosia* ab, *Argynnis*, *Basilarchia archippus*, *Cereyonis*, *Phyciodes* ab, *Vanessa atalanta* ab, *cardui*, *huntera*; *Lycaen.*: *Chrysophanus* ab, *Cyaniris*, *Everes*, *Uranotes*; *Papilion.*: *Euphœades*, *Eurymus*, *Laertias*, *Papilio* ab, *Pieris*, *Pontia*, *Zerene*; *Hesperi.*: *Atalopedes*, *Atrytone delaware*, *zabulon*, *Epargyreus* ab, *Limochores taumas* ab, *Polites*, *Thanaos juvenalis*, *Thorybes bathyllus*; *Arcti.*: *Utetheisa*; *Ctenuch.*: *Scepsis*.

Coleoptera (f, n)—*Coccinell.*: *Hippodamea 15-maculata*; *Scarabae.*: *Trichius piger*.

Hemiptera (1)—*Lygae.*: *Oncopeltus*.

July 9, 1913, the following 74 individuals, of 21 species, were taken on the flowers:

Long-tongued Bees (10:56)—*Ap.*: *Apis* 32; *Megachil.*: *Megachile brevis* 5, *petulans* 2, *6-dentata* 1, *Sapapis sayi* 1; *Epeol.*: *Tripeolus concavus* 3, *concolor* 5, *lunatus* 2; *Eucer.*: *Epimelissodes obliqua* 2, *Melissodes bimaculata* 3.

Short-tongued Bees (1:1)—*Halict.*: *Halictus lerouxii* 1.

Other Hymenoptera (3:4)—*Sphec.*: *Sphex nigricans* 2; *Scoli.*: *Elis 5-cincta* 1; *Eumen.*: *Leionotus arvensis* 1.

Diptera (1:1)—*Conop.*: *Physocephala texana* 1.

Lepidoptera (6:12)—*Nymphal.*: *Argynnis* 1, *Phyciodes* 1; *Lycaen.*: *Chrysophanus* 1; *Papilion.*: *Eurymus* 2, *Pontia* 6; *Hesperi.*: *Thorybes bathyllus* 1.

Galium aperine.—Blooms May 4–June 22; 1 visitor observed, May 15; Mi, W.

Short-tongued Bees (1)—*Halict.*: *Chloralictus obscurus* ♀.

Galium trifidum.—Blooms May 22–July 9; 8 visitors observed, June 26; Mi, W.

Short-tongued Bees (1)—*Prosopid.*: *Prosopis pygmaea* ♂.

Diptera (7)—*Syrph.*: *Mesogramma marginata*, *Pipiza pubescens*, *Syritta*; *Tachin.*: *Cistogaster occidua*, *Euphorocera claripennis*; *Sarcophag.*: *Helicobia helicus*; *Anthomy.*: *Coenosia antica*.

Houstonia purpurea calycosa (5: 275).—Blooms May 18–July 4; 37 visitors observed, May 25–June 12; Mi, W.

Long-tongued Bees (9)—*Ap.*: *Apis*; *Bomb.*: *Bombias separatus* ♀; *Ceratin.*: *Ceratina* ♂ ♀, se, ab; *Megachil.*: *Neotrypetes productus* ♂, *type*, *Aleidamea simplex* ♂; *Nomad.* (♀): *Centrias americanus*, *Holonomada affabilis*, *superba*; *Eucer.*: *Tetralonia rosae* ♂.

Short-tongued Bees (9)—*Halict.* (♀): *Chloralictus albipennis* se, *pilosus* se, *versatus* se, *Evylaeus pectoralis*, *Odontalictus*, *Oxystoglossa confusa* se, *similis* se, *Seladonia*; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, se, ab.

Diptera (9)—*Syrph.*: *Eristalis dimidiatus*, *Mesogramma marginata*, *Paragus bicolor*, *tibialis*, *Sphaerophoria* se, ab, *Syritta*; *Bombyli.*: *Bombylius atriceps*; *Tachin.*: *Archytas analis*, *Spallanzania*.

Lepidoptera (7)—*Nymphal.*: *Charidryas* fq; *Lycacn.*: *Chrysophanus* fq; *Papilion.*: *Pieris*, *Pontia*; *Hesper.*: *Aneyloxypha* ab, *Pholisora catullus*, *Polites*.

Coleoptera (3)—*Curculion.* (f, n): *Centrinites*, *Centrinus scutellum-album*; *Scarabae.*: *Trichius piger* sf, ab.

RUTACEAE

Ptelea trifoliata (9: 155–7).—Blooms May 7–June 23; 68 visitors observed, May 22–June 8; Mis, W.

Long-tongued Bees (5)—*Ap.*: *Apis* se, fq; *Bomb.*: *Bombias auricomus* ♀, se; *Ceratin.*: *Ceratina* ♀, se, ab; *Nomad.*: *Gnathias ovatus* ♀; *Eucer.*: *Tetralonia dilecta* ♀, se.

Short-tongued Bees (28)—*Halict.* (♀): *Agapostemon radiatus*, *viridulus*, *Chloralictus cressonii* se, *pilosus*, *sparsus* se, *tegularis* se, *versatus* se, *Curtisapis coriacea*, *Halictus lerouxii*, *Odontalictus*, *Oxystoglossa confusa*; *Sphceodini*: *Drepanium* fq; *Prosopid.*: *Prosopis sayi* ♂, *ziziae* ♂; *Collet.*: *Colletes eulophi* ♂, *inaequalis* ♀, se; *Andren.*: *Andrena platyparia* ♂ ♀, se, *Opandrena cressonii* ♀, *miserabilis* ♀, se, fq, *serotina* ♀, se, fq, *Trachandrena claytoniae* ♀, *erataegi* ♀, se, *forbesii* ♀, *heraclei* ♀, se, *hippotes* ♀, se, ab, *type*, *nuda* ♀, se, fq, *rugosa* ♀, *spiraecana* ♀.

Other Hymenoptera (14)—*Sphex.*: *Sphex vulgaris*; *Scoli.*: *Campsomeris*; *Philanth.*: *Cerceris compar*; *Eumen.*: *Ancistrocerus tigris*, *unifasciatus*, *Eumenes fraternus*, *Leionotus clypeatus*, *foraminatus*, *serophulariae*, *ziziae*; *Crabron.*: *Solenius*; *Orybel.*: *Notoglossa americana*, *inornata*; *Chalcid.*: *Leucospis*.

Diptera (19)—*Stratiomy.*: *Stratiomyia meigenii*; *Syrph.*: *Mallota cimbeiformis*, *Myiolepta nigra*, *Sphaerophoria*, *Syritta*, *Volucella vesiculosa*; *Empid.*: *Empis distans*, *levicula*; *Conop.*: *Conops*

brachyrrhynchus, Dalmannia, Myopa vesiculosa; *Tachin.*: Archytas analis, aterrima, Linnaemyia, Trichopoda pennipes; *Sarcophag.*: Helicobia heliceis; *Musc.*: Pseudopyrellia; *Anthomy.*: Anthomyiella, Phorbia platara fq.

Lepidoptera (2)—*Nymphal.*: Neonympha; *Agarist.*: Alypia.

May 27, 1911, the following 22 species and 44 individuals were taken on the flowers:

Long-tongued Bees (4: 21)—*Ap.*: Apis 6; *Bomb.*: Bombias auricomus 1; *Ceratin.*: Ceratina 13; *Eucer.*: Tetralonia dilecta 1.

Short-tongued Bees (11: 16)—*Halict.*: Agapostemon viridulus 1, Chloralictus sparsus 3, tegularis 1; *Prosopid.*: Prosopis ziziae 1; *Collet.*: Colletes eulophi 1; *Andren.*: Opandrena cressonii 1, miserabilis 2, serotina 1, Trachandrena crataegi 2, heraclei 2, hippotes 1.

Other Hymenoptera (4: 4)—*Sphec.*: Spheg vulgaris 1; *Philanth.*: Cerceris compar 1; *Crabron.*: Solenius 1; *Oxybel.*: Notoglossa americana 1.

Diptera (3: 3)—*Syrph.*: Sphaerophoria 1, Syrretta 1; *Empid.*: Empis levicula 1.

Zanthoxylum americanum (7: 109-11).—Blooms March 31-April 28; 59 visitors observed, April 9-25; Mis, Y.

On staminate flowers (7):—

Short-tongued Bees (2, ♀)—*Halict.*: Chloralictus cressonii, Curtisapis coriacea.

Other Hymenoptera (3)—*Vesp.*: Polistes pallipes; *Pompil.*: Cryptocheilus conicus; *Chrysid.*: Holochrysis hilaris.

Diptera (1)—*Syrph.*: Brachypalpus frontosus.

Coleoptera (1)—*Oedemer.*: Asclera puncticollis.

On staminate and pistillate flowers (16):—

Long-tongued Bees (4, ab)—*Ap.*: Apis se; *Megachil.*: Osmia pumila ♂; *Nomad.*: Gnathias cuneatus ♂ ♀, type, Xanthidium luteolum ♂ ♀.

Short-tongued Bees (10)—*Halict.* (♀): Chloralictus sparsus se, ab, versatus se, ab, Oxystoglossa confusa; *Collet.*: Colletes inaequalis ♂ ♀, ab, in cop; *Andren.*: Andrena sayi ♂, ab, Opandrena cressonii ♂ ♀, ab, miserabilis ♂ ♀, ab, Trachandrena claytoniae ♂ ♀, ab, forbesii ♂ ♀, fq, rugosa ♂, fq.

Diptera (2)—*Syrph.*: Mesogramma geminata ab; *Tachin.*: Gonia capitata ab.

On pistillate flowers (36):—

Long-tongued Bees (8)—*Ceratin.*: Zaodontomerus ♂; *Megachil.*: Ceratosmia ♂ ♀, ab; *Nomad.*: Gnathias ovatus ♂, fq, Nomada cres-

sonii ♂, denticulata ♂ ♀, illinoensis ♂ ♀, fq, sayi ♂ ♀, ab, Xanthidium luteoloides ♂.

Short-tongued Bees (12)—*Halict.* (♀): Augochlora viridula, Chloralictus caeruleus fq, zephyrus fq, Euvylaeus arcuatus, foxii fq, Halictus lerouxii, Odontalictus, Paralictus platyparius; *Andren.*: Andrena mandibularis ♂, pruni ♂ ♀, fq, Opandrena dubia ♂, fq, Trachandrena hippotes ♂.

Diptera (15)—*Syrph.*: Eristalis dimidiatus, Helophilus similis, Orthoneura nitida, Sphaerophoria, Syrphus americanus, Xanthogramma felix; *Conop.*: Myopa vesiculosa; *Tachin.*: Archytas analis, Gonia exul ab, Phorichaeta, Phyto; *Sarcophag.*: Helicobia 4-setosa; *Musc.*: Phormia regina, Pseudopyrellia fq; *Scatophag.*: Scatophaga.

Lepidoptera (1)—*Noctu.*: Plusia simplex.

SALICACEAE

Populus deltoides (anemophilous).—One visitor observed, April 14.

Long-tongued Bees (1)—*Ap.*: Apis c, ab.

Populus tremuloides (anemophilous).—One visitor observed, April 6.

Long-tongued Bees (1)—*Ap.*: Apis c, ab.

Salix amygdaloides.—Blossoms April 4–May 9; 97 visitors observed, April 10–28; Mis, Y.

On staminate flowers:

Long-tongued Bees (4)—*Ceratin.*: Ceratina ♂, Zaodontomerus ♂; *Nomad.*: Heminomada ♀, Nomada sayi ♂.

Short-tongued Bees (13)—*Halict.* (♀): Chloralictus illinoensis, Euvylaeus arcuatus se, fq, truncatus se, Oxystoglossa confusa se; *Sphecodini*: Sphecodium cressonii; *Collet.*: Colletes inaequalis ♂ ♀, se; *Andren.*: Andrena illinoensis ♂ ♀, se, fq, pruni ♀, salicacea ♀, se, salictaria ♀, se, Opandrena personata ♂, Trachandrena crataegi ♂, nuda ♀, se.

Other Hymenoptera (2)—*Vesp.*: Vesputa germanica; *Pompil.*: Cryptocheilus conicus.

Diptera (8)—*Syrph.*: Chrysogaster ontario, Helophilus latifrons, Psilota, Tropicidia mamillata, Xylota fraudulosa; *Empid.*: Rhamphomyia irregularis; *Bombyli.*: Bombylius major; *Musc.*: Morellia.

On staminate and pistillate flowers:

Long-tongued Bees (7)—*Ap.*: Apis se, ab; *Nomad.*: Gnathias euneatus ♂ ♀, fq, ovatus ♂ ♀, fq, Nomada denticulata ♂ ♀, ab, illinoensis ♂ ♀, ab, Phor ♂, ab, Xanthidium luteolum ♂ ♀, fq.

Short-tongued Bees (23)—*Halict.* (♀): *Agapostemon radiatus*, *Chloralictus pilosus* sc, fq, *sparsus* sc, ab, *versatus* sc, ab, *zephyrus* sc, ab, *Evyllaesus foxii* sc, ab, *pectoralis* sc, fq, *Halictus lerouxii* sc, ab, *Odontalictus*, *Oxystoglossa pura*, *Seladonia* sc, fq; *Andren.* (♂ ♀): *Andrena dunningii*, *erythrogastra* sc, ab, *mandibularis* sc, *salicis* sc, *sayi* fq, *Opandrena cressonii* sc, ab, in cop, *miserabilis* sc, ab, *Parandrena* sc, ab, *Trachandrena claytoniae* sc, fq, *forbesii* sc, fq, *hippotes* sc, fq, *mariae* sc, fq.

Diptera (7)—*Syrph.*: *Brachypalpus frontosus*, *Chilosia punctulata*, *Sphaerophoria*; *Empid.*: *Rhamphomyia limbata* fq, *priapululus* fq; *Conop.*: *Myopa vesiculosa* ab; *Musc.*: *Pseudopyrellia*.

On pistillate flowers:

Long-tongued Bees (3)—*Bomb.*: *Bombus americanorum* ♀; *Megachil.*: *Osmia pumila* ♂; *Nomad.*: *Nomada salicis* ♂, *type*.

Short-tongued Bees (6)—*Halict.* (♀): *Chloralictus cressonii*, *tegaris* fq, *Curtisapis forbesii*; *Andren.* (♂): *Andrena carlini*, *erythronii*, *Trachandrena rugosa*.

Other Hymenoptera (5)—*Vesp.*: *Vespula germanica*; *Pompil.*: *Cryptocheilus conicus*; *Ichneumon.*: *Glypta rufiscutellaris* fq; *Tenthredin.*: *Dolerus arvensis*, *Macrophya epinota*, *pleuricineta*, *Macroxyela*.

Diptera (18)—*Syrph.*: *Eristalis dimidiatus*, *Melanostoma obseurum*, *Mesogramma marginata*, *Platychirus quadratus*, *Syrphus americanus*, *torvus*; *Empid.*: *Rhamphomyia gilvipilosa*; *Conop.*: *Myopa pilosa* ab, in cop; *Tachin.*: *Gonia capitata*, *exul*; *Sarcophag.*: *Cynomyia*; *Anthomy.*: *Coenosia antennalis*, *Hyetodosia*, *Mydaea fusca*, *Phorbia acra*, *platyura* fq; *Scatophag.*: *Scatophaga*; *Seps.*: *Sepsis*.

Coleoptera (1)—*Chrysomel.*: *Orsodachna*.

Salix cordata (9:76-7).—Blooms March 18–April 30; 123 visitors observed, March 25–April 29; Mis, Y.

On staminate flowers:

Long-tongued Bees (6)—*Megachil.*: *Osmia pumila* ♂ ♀, ab; *Nomad.*: *Nomada denticulata* ♂, *type*, *illinoensis* ♂ ♀, fq, *type*, *sayi* ♂, *Xanthidium luteoloides* ♂, *luteolum* ♂ ♀, ab.

Short-tongued Bees (16)—*Halict.* (♀): *Augochlora viridula*, *Chloralictus illinoensis*, *tegaris*, *Odontalictus*, *Oxystoglossa confusa* fq, *similis type*; *Andren.*: *Andrena dunningii* ♂, *erythrogastra* ♂ ♀, sc, ab, in cop, *mandibularis* ♂, *type*, *pruni* ♂, fq, *salicacea* ♂ ♀, fq, *sayi* ♂ ♀ ab, in cop, *Opandrena cressonii* ♂ ♀, ab, *dubia* ♂, *type*, *Trachandrena hippotes* ♂, fq, *nuda* ♀.

Other Hymenoptera (5)—*Vesp.*: *Polistes rubiginosus*; *Pompil.*: *Cryptocheilus conicus*; *Tenthredin.*: *Dolerus bicolor*, *Nematus luteotergum*, *vertebratus*.

Diptera (26)—*Simuli.*: *Simulium*; *Syrph.*: *Brachyopa*, *Chalcomyia*, *Chrysogaster ontario*, *Eristalis aeneus* ab, *dimidiatus* ab, *Melanostoma obscurum*, *Orthoneura pictipennis* ab, *Platychirus hyperboreus*, *Psilota*, *Sphaerophoria*, *Syritta*, *Syrphus torvus*, *Tropidia mamillata*, *Xylota fraudulosa*; *Empid.*: *Empis otiosa*, *Rhamphomyia priapulus*; *Conop.*: *Myopa vesiculosa*; *Tachin.*: *Gonia exul*; *Sarcophag.*: *Helicobia 4-setosa*; *Anthomy.*: *Hyetodasia*; *Lonchae.*: *Lonchaea aberrans*, *parvicornis*; *Oscin.*: *Elachiptera costata*; *Sciomyz.*: *Sciomyza*, *Tetanocera*; *Seps.*: *Prochyliza*.

Coleoptera (3)—*Chrysomel.*: *Galeruca* fq, *Lina* ab; *Oedmer.*: *Asclera puncticollis* fq.

On staminate and pistillate flowers:

Long-tongued Bees (7)—*Ap.*: *Apis* se, ab; *Ceratin.*: *Ceratina* ♂, fq; *Megachil.*: *Ceratostmia* ♂, ab; *Nomad.* (♂ ♀): *Gnathias euneatus* ab, *ovatus* ab, *type*, *Nomada simplex* fq, *type*, *Phor integer* ab, *type*.

Short-tongued Bees (23)—*Halict.*: *Agapostemon radiatus* ♀, *Chloralictus pilosus* ♀, fq, *sparsus* ♀, se, ab, *versatus* ♀, fq, *zephyrus* ♀, ab, *Curtisapis forbesii* ♀, se, *Evyllaenus arcuatus* ♀, *foxii* ♀, se, ab, *type*, *Halictus lerouxii* ♀, fq, *Paralictus platyparius* ♂ ♀, *Seladonia* ♀, fq; *Sphecodini.*: *Sphecodes arvensis* ♀, fq; *Collet.*: *Colletes inaequalis* ♂, fq; *Andren.* (♂ ♀): *Andrena erythronii*, *illinoensis* fq, *type*, *salicis* se, ab, in cop, *type*, *salietaria* se, ab, in cop, *type*, *Opandrena miserabilis* ab, in cop, *Parandrena* ab, in cop, *Trachandrena elaytoniae* ab, *forbesii* fq, *mariae* se, ab, in cop, *type*, *rugosa* fq.

Other Hymenoptera (1)—*Tenthredin.*: *Dolerus arvensis* ab.

Diptera (14)—*Syrph.*: *Brachypalpus frontosus* ab, *rileyi* ab, *Eristalis flavipes*, *Helophilus similis*, *Platychirus quadratus* ab, *Syrphus americanus* ab, *Xylota fraudulosa* ab; *Empid.*: *Rhamphomyia gilvipilosa* fq, *type*; *Conop.*: *Myopa pilosa* fq; *Tachin.*: *Gonia capitata* ab; *Sarcophag.*: *Cynomyia* ab; *Musc.*: *Pseudopyrellia* ab; *Anthomy.*: *Phorbia platyura* fq; *Scatophag.*: *Scatophaga* ab.

Coleoptera (1)—*Chrysomel.*: *Orsodachna* ab.

On pistillate flowers:

Long-tongued Bees (1)—*Ceratin.*: *Zaodontomerus* ♂, fq.

Short-tongued Bees (6, ♀)—*Halict.*: *Chloralictus eressonii*, *pruinus*, *testaceus type*, *Oxystoglossa pura*; *Sphecodini.*: *Drepanium* fq; *Andren.*: *Andrena carlini*.

Other Hymenoptera (1)—*Vesp.*: *Polistes variatus*.

Diptera (11)—*Syrph.*: *Eristalis transversus*, *Merapioidus*; *Tachin.*: *Euphorocera cinerea*, *claripennis*, *Panzeria*, *Tachina robusta*; *Sarcophag.*: *Calliphora erythrocephala*; *Musc.*: *Myospila*, *Pollenia*; *Oscin.*: *Oscinis coxendix*; *Seps.*: *Sepsis*.

Lepidoptera (1)—*Nymphal.*: *Vanessa atalanta*.

Hemiptera (1)—*Caps.*: *Lygus*.

Salix humilis (9: 77-8).—Blooms March 18–April 28; 67 visitors observed, March 21–April 21; Mis, Y.

On staminate flowers:

Long-tongued Bees (3)—*Nomad.*: *Gnathias ovatus* ♀, *Nomada sayi* ♂ ♀, *Xanthidium dentariae* ♂.

Short-tongued Bees (13)—*Halict.* (♀): *Chloralictus pilosus*, *pruinus*, *sparsus*, *zephyrus*, *Evylaeus foxii*, *Oxystoglossa confusa*; *Andren.*: *Andrena illinoensis* ♂, *mandibularis* ♀, *salicea* ♀, *type*, *sayi* ♂, *Trachandrena claytoniae* ♂ ♀, *fq*, *hippotes* ♀, *mariae* ♂ ♀, *sc*.

Other Hymenoptera (1)—*Chrysid.*: *Holochrysis hilaris*.

Diptera (4)—*Syrph.*: *Eristalis aeneus*, *transversus*, *Orthoneura nitida*; *Conop.*: *Myopa vesiculosa*.

Lepidoptera (1)—*Nymphal.*: *Euvanessa*.

Coleoptera (2)—*Coccinell.*: *Hippodamea parenthesis*; *Lampyr.*: *Ellychnia*.

Hemiptera (2)—*Caps.*: *Lygus* ab; *Pentatom.*: *Euschistus variolarius*.

On staminate and pistillate flowers:

Long-tongued Bees (2)—*Ap.*: *Apis* *sc*, ab; *Megachil.*: *Ceratosmia* ♂.

Short-tongued Bees (12)—*Halict.* (♀): *Chloralictus versatus*, *fq*, *Curtisapis forbesii*, *Evylaeus arcuatus* *sc*, *fq*, *Halictus lerouxii* ab; *Collet.*: *Colletes inaequalis* ♂ ♀, ab; *Andren.*: *Andrena carlini* ♂ ♀, ab, *erythrogastra* ♂, *erythronii* ♂ ♀, *fq*, *salicis* ♂ ♀, *sc*, *fq*, *Opandrena cressonii* ♂, *fq*, *miserabilis* ♂ ♀, *fq*, *Trachandrena forbesii* ♂ ♀, *fq*.

Diptera (12)—*Syrph.*: *Brachypalpus frontosus* ab, *Eristalis dimidiatus* ab, *Helophilus similis* ab, *Sphaerophoria*, *Syrphus americanus*; *Tachin.*: *Gonia capitata* ab; *Sarcophag.*: *Cynomyia* ab; *Musc.*: *Phormia regina*, *Pseudopyrellia* ab; *Anthomy.*: *Phorbia platyura* ab; *Scatophag.*: *Scatophaga* ab; *Seps.*: *Sepsis* ab.

Coleoptera (1)—*Chrysomel.*: *Orsodachna* ab.

On pistillate flowers:

Long-tongued Bees (2)—*Bomb.*: *Bombus impatiens* ♀; *Ceratin.*: *Ceratina* ♂, *fq*.

Short-tongued Bees (4)—*Halict.* (♀)—*Agapostemon radiatus*, *Seladonia*; *Sphecodini*: *Sphecodes arvensis*; *Andren.*: *Andrena illinoensis* ♂.

Other Hymenoptera (5)—*Ichneumon.*: *Colpognathus*, *Ichneumon funestus*; *Tenthredin.*: *Dolerus arvensis* ab, *bicolor* ab, *sericeus*.

Diptera (2)—*Syrph.*: *Eristalis latifrons*; *Anthomy.*: *Hyetodasia*.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

Salix longifolia.—Blooms April 26–August 11; 119 visitors observed on staminate flowers, April 26–July 15; Mis, Y.

Long-tongued Bees (16)—*Ap.*: *Apis*; *Bomb.*: *Bombias auricomus* ♀, *Bombus americanorum* ♀; *Ceratin.*: *Zaodontomerus* ♂; *Megachil.*: *Megachile mendica* ♂; *Nomad.*: *Gnathias cuneatus* ♀, fq, *ovatus* ♂ ♀, ab, *Heminomada* ♂ ♀, fq, *Holonomada superba* ♂, *Nomada cressonii* ♂ ♀, *denticulata* ♂ ♀, fq, *illinoensis* ♂ ♀, fq, *sayi* ♂ ♀, fq, *Phor* ♂ ♀, ab, *Xanthidium luteoloides* ♂; *Eucer.*: *Tetralonia dilecta* ♀.

Short-tongued Bees (43)—*Halict.*: *Agapostemon radiatus* ♀, se, *splendens* ♀, *Chloralictus cressonii* ♀, *nymphaearum* ♀, *pilosus* ♂ ♀, *sparsus* ♀, se, fq, *tegularis* ♀, se, *versatus* ♀, se, fq, *zephyrus* ♂ ♀, se, fq, *Curtisapis forbesii* ♂ ♀, fq, *Evyllaenus arcuatus* ♀, se, *foxii* ♀, se, fq, *pectoralis* ♀, *truncatus* ♂ ♀, *Halictus lerouxii* ♀, se, *Odontalictus* ♀, se, *Oxystoglossa confusa* ♂ ♀, *pura* ♀, *similis* ♀, se, *Seladonia* ♀, se; *Sphecodini*: *Sphecodes arvensis* ♀, *minor* ♀, *Sphecodium cressonii* ♀; *Prosopid.*: *Prosopis illinoensis* ♀, fq, *pygmaea* ♂, *ziziae* ♀; *Collet.*: *Colletes eulophi* ♂, *inaequalis* ♀, se; *Andren.*: *Andrena carlini* ♀, *erythrogastra* ♂ ♀, se, ab, *illinoensis* ♀, se, fq, *macoupinensis* ♀, *mandibularis* ♀, *salictaria* ♀, se, *sayi* ♀, *Opandrena cressonii* ♂ ♀, se, fq, *miserabilis* ♂ ♀, se, *personata* ♂, *Parandrena* ♂ ♀, se, ab, *Trachandrena claytoniae* ♂ ♀, *crataegi* ♂, *hippotes* ♀, se, ab, *mariae* ♂ ♀, se, fq.

Other Hymenoptera (10)—*Sphec.*: *Sphex nigricans*; *Scoli.*: *Elis 5-cincta*; *Philanth.*: *Cerceris finitima*, *Philanthus punctatus* fq; *Vesp.*: *Polistes pallipes*, *variatus*; *Crabron.*: *Lindenius errans*; *Orybel.*: *Notoglossa frontalis*, *Oxybelus packardii*; *Ichneumon.*: *Pimpla notanda*.

Diptera (47)—*Bibion.*: *Bibio femoratus*, *pallipes*; *Simuli.*: *Simulium*; *Taban.*: *Chrysops striatus*; *Stratiomy.*: *Nemotelus*; *Syrph.*: *Allograpta*, *Baccha aurinota*, *Chilosia capillata*, *punctulata*, *Chrysochlamys*, *Chrysogaster nigripes*, *Eristalis dimidiatus* fq, *Helophilus similis*, *Melanostoma obscurum*, *Mesogramma geminata* fq, *marginata*, *Orthoneura nitida*, *Paragus bicolor*, *Pipiza*

pulchella, *Platychirus quadratus*, *Sphaerophoria* fq, *Syritta*, *Syrphus americanus*; *Empid.*: *Empis avida*, *distans*, *Parempis*, *Rhamphomyia limbata* fq, *priapulul* fq, *Tachydromia*; *Bombyli.*: *Bombylius major*; *Conop.*: *Myopa pilosa*, *vesiculosa*, *Zodion fulvifrons*; *Tachin.*: *Euphorocera claripennis*, *Gonia capitata*, *Linnaemyia*, *Peleteria*, *Phoranthia humeralis*; *Sarcophag.*: *Cynomyia* fq, *Helicobia helicis*, *Sarcophaga cimbicis*, *sinuata*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Coenosia antica*, *Phorbia platura* fq; *Ortal.*: *Chaetopsis*; *Scatophag.*: *Scatophaga*.

Lepidoptera (1)—*Lycaen.*: *Eupsyche*.

Coleoptera (2, fq)—*Chrysomel.*: *Diabrotica vittata*; *Coccinell.*: *Megilla* in cop.

Salix nigra.—Blooms April 22–May 29; 97 visitors observed, April 22–May 29; Mis, Y.

On staminate flowers:

Long-tongued Bees (14)—*Ap.*: *Apis* sc, fq; *Bomb.*: *Bombias separatus* ♀, *Bombus americanorum* ♀; *Ceratin.*: *Ceratina* ♂, *Zaodontomerus* ♂; *Megachil.*: *Ceratosmia* ♀, sc; *Nomad.*: *Gnathias cuneatus* ♂ ♀, fq, *ovatus* ♂ ♀, fq, *Heminomada* ♂ ♀, fq, *Nomada cressonii* ♂ ♀, *denticulata* ♂ ♀, *illinoensis* ♂ ♀, fq, *sayi* ♂ ♀, *Phor* ♀.

Short-tongued Bees (43)—*Halict.* (♀):—*Agapostemon radiatus* sc, *Augochlora viridula*, *Chloralictus pilosus* sc, fq, *pruinus* sc, *sparsus* sc, ab, *tegularis* sc, *versatus* sc, ab, *zephyrus* sc, ab, *Curtisapis forbesii* sc, *Evyllaenus arcuatus* sc, *foxii* sc, fq, *pectoralis* sc, 4-maculatus, *Halictus lerouxii* sc, *Odontalictus* sc, *Oxystoglossa confusa* sc, fq, *similis* fq, *Paralictus cephalicus*, *Seladonia* sc; *Sphécodini*: *Machaeris stygia*; *Collet.*: *Colletes inaequalis* ♀; *Andren.*: *Andrena carlini* ♀, *dunningii* ♀, sc, *erythrogastra* ♂ ♀, sc, ab, *illinoensis* ♂ ♀, sc, fq, *macoupinensis* ♀, sc, *type*, *mandibularis* ♀, sc, *nigrae* ♀, sc, *type*, *salicis* ♀, sc, *salictaria* ♂ ♀, sc, fq, *sayi* ♂ ♀, sc, fq, *Opandrena cressonii* ♂ ♀, sc, ab, *dubia* ♂, *miserabilis* ♂ ♀, sc, ab, *personata* ♂, *Parandrena* ♂ ♀, sc, ab, *Trachandrena claytoniae* ♀, sc, *crataegi* ♂ ♀, sc, ab, *forbesii* ♂, *heraclei* ♀, sc, *hippotes* ♀, sc, *nuda* ♀, sc, *rugosa* ♀, sc.

Other Hymenoptera (3)—*Eumen.*: *Ancistrocerus tigris*; *Chrysid.*: *Holochrysis hilaris*; *Bracon.*: *Microdus* fq.

Diptera (32)—*Bibion.*: *Biblio albipennis*, *pallipes*; *Syrph.*: *Allograpta*, *Chilosia capillata*, *punctulata*, *Chrysogaster nigripes*, *Eristalis aeneus*, *dimidiatus*, *Helophilus similis*, *Mesogramma marginata*, *Psilota*, *Sphaerophoria*, *Syritta*, *Syrphus americanus*, *ribesii*; *Empid.*: *Rhamphomyia limbata*, *priapulul* fq, *sordida*; *Bombyli.*:

Bombylius major; *Conop.*: *Myopa pilosa* fq, *vesiculosa* fq, *Zodion fulvifrons*; *Tachin.*: *Archytas analis*, *Gymnosoma*, *Hypostena dunningii*, *Linnaemyia*, *Siphona*; *Sarcophag.*: *Cynomyia*; *Musc.*: *Lucilia sylvarum*, *Pseudopyrellia*; *Anthomy.*: *Phorbia platura* fq; *Scatophag.*: *Scatophaga*.

Lepidoptera (2)—*Nymphal.*: *Vanessa huntera*; *Papilion.*: *Eurymus*.

Coleoptera (3)—*Cerambyc.*: *Molochus*; *Chrysomel.*: *Diabrotica vittata*; *Lampyr.*: *Ellychnia*.

SANTALACEAE

Comandra umbellata (6: 50-1).—Blooms April 18-June 6; 44 visitors observed, May 1-23; Pol, W.

Long-tongued Bees (4)—*Ap.*: *Apis*; *Megachil.*: *Osmia pumila* ♀; *Nomad.*: *Holonomada superba* ♂ ♀; *Eucer.*: *Tetralonia dilecta* ♂.

Short-tongued Bees (8, ♀)—*Haliect.*: *Chloralictus albipennis*, *tegularis*, *versatus*, *Haliectus lerouxii*, *Sphecodini*: *Sphecodes arvensis*; *Andren.*: *Andrena sayi*, *Opandrena miserabilis*, *Trachandrena mariae*.

Diptera (28)—*Stratiomy.*: *Odontomyia pubescens*, *Stratiomyia quaternaria*; *Syrph.*: *Eristalis dimidiatus*, *Helophilus latifrons*, *Sphaerophoria* ab, *Syritta*, *Tropidia mamillata*, *Volucella vesiculosa*; *Tachin.*: *Gonia capitata*, *Peleteria*, *Tachina robusta*; *Sarcophag.*: *Boettcheria*, *Calliphora erythrocephala* fq, *vomitaria*, *Cynomyia* ab, *Sarcophaga cimbicis* ab, *sinuata*; *Musc.*: *Graphomyia*, *Lucilia caesar* ab, *sericata* fq, *sylvarum* ab, *Myospila*, *Phormia regina* fq, *Pseudopyrellia*; *Anthomy.*: *Coenosia antea*, *Limnophora* ab, *Phorbia platura* ab; *Sciomyz.*: *Sciomyza*.

Lepidoptera (2)—*Lycaen.*: *Uranotes*; *Papilion.*: *Iphielides*.

Coleoptera (2)—*Coccinell.*: *Megilla*; *Lampyr.*: *Telephorus bilineatus*.

SAPINDACEAE

Aesculus glabra (16: 160).—Blooms April 7-May 18; 9 visitors observed, April 21-May 11; Ma, Y.

Long-tongued Bees (9)—*Bomb.* (♀): *Bombias auricomus* fq, *separatus*, *Bombus americanorum* fq, *impatiens*; *Megachil.*: *Centrosmia* ♂ ♀, *sc.* fq, *Osmia cordata* ♂; *Eucer.*: *Tetralonia helfragei* ♂ ♀, *sc.* fq, *in eop.* *dilecta* ♀; *Anthophor.*: *Anthophora* ♀, *sc.*

Aesculus hippocastanum (cult, 16: 159).—Eight visitors observed, May 29; Ma, W.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (7)—*Bomb.* (♀): *Bombias auricomus* ab, *scutellaris*, *separatus* ab, *Bombus americanorum* ab, *impatiens* ab; *Eucer.*: *Tetralonia dilecta* ♂ ♀, ab; *Anthophor.*: *Anthemoessa* ♂.

SAXIFRAGACEAE

Heuchera hispida (5: 178-9).—Blooms May 4-July 4; 6 visitors observed, May 8-June 23; Mi, Y.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

Short-tongued Bees (5)—*Halict.* (♀): *Chloralictus pruinus*, *versatus* sc, fq, *Oxystoglossa confusa* sc, *similis* sc, fq; *Collet.*: *Colletes aestivalis* ♂ ♀, sc, ab, oligolege.

Hydrangea arborescens (5: 269-70).—Blooms June 21-August 2; 34 visitors observed, June 27, 30; Mis, W.

Long-tongued Bees (4)—*Bomb.*: *Bombias separatus* ♀, c, ab, *Bombus americanorum* ♀, c; *Ceratin.*: *Ceratina* ♀, sc; *Megachil.*: *Neotrypetes truncatus* ♀, c.

Short-tongued Bees (8)—*Halict.*: *Chloralictus sparsus* ♀, sc, ab, *versatus* ♀, sc, ab, *Evylaeus arcuatus* ♀, sc, *pectoralis* ♂ ♀, sc, *truncatus* ♀, sc, *Oxystoglossa pura* ♀, sc, *Seladonia* ♀, c; *Prosopid.*: *Prosopis ziziae* ♂ ♀, sf, ab.

Other Hymenoptera (1)—*Crabron.*: *Solenius*.

Diptera (14)—*Syrph.* (sf): *Allograpta*, *Eristalis tenax*, *Mesogramma geminata*, *Paragus tibialis*, *Sphaerophoria*, *Syritta*, *Syrphus americanus*; *Empid.*: *Parempis* ab; *Conop.*: *Oncomyia* fq, *Stylogaster biannulata*; *Tachin.*: *Archytas analis*; *Musc.*: *Graphomyia*, *Musca*, *Pseudopyrellia*.

Lepidoptera (2)—*Hesper.*: *Epargyreus*; *Pyromorph.*: *Harrisina*.

Coleoptera (5)—*Cerambyc.*: *Euderces* sf, *Typocerus velutinus*; *Mordell.*: *Mordella marginata* ab, *Mordellistena ornata*, *pubescens* ab.

Philadelphus grandiflorus (cult, 5: 270).—Twenty-one species and 160 individuals; May 29-June 26; Mi, W.

Long-tongued Bees (2: 67)—*Bomb.*: *Bombus americanorum* ♀, 1; *Megachil.*: *Prochelostoma philadelphia* ♂ ♀, sc, in cop, 66, *type*.

Short-tongued Bees (8: 58, ♀)—*Halict.*: *Chloralictus sparsus* sc, 32, *versatus* sc, 5, *zephyrus* 1; *Prosopid.*: *Prosopis ziziae* 2; *Andren.*: *Opanrena cressonii* sc, 1, *personata* 4, *Trachandrena claytoniae* sc, 9, *crataegi* sc, 4.

Other Hymenoptera (2: 4)—*Eumen.*: *Ancistrocerus tigris* 1, *Leionotus foraminatus* 3.

Diptera (8:27)—*Bibion.*: *Dilophus obesulus* 2; *Musc.*: *Lucilia caesar* 1, *sericata* 1, *Pollenia* 2, *Pseudopyrellia* 2; *Anthomy.*: *Limnophora* 1, *Phorbia acra* 17, *platura* 1.

Lepidoptera (2:4)—*Papilion.*: *Jasoniades* 1; *Hesper.*: *Epargyreus* 3.

Ribes gracile (5:270-1).—Blooms March 30-May 16; 38 visitors observed, April 4-29; Ma, W.

Long-tongued Bees (18)—*Ap.*: *Apis* se, ab, n; *Bomb.* (♀): *Bombias auricomus* ab, *separatus*, *Bombus americanorum* ab, *consimilis*, *impatiens* ab, *ridingsii*; *Megachil.* (♂, n): *Ceratostmia*, *Osmia pumila*; *Nomad.* (n); *Gnathias cuneatus* ♂, *ovatus* ♂, *Nomada denticulata* ♂, *illinoensis* ♂, *sayi* ♂ ♀, *Xanthidium luteoloides* ♂, *luteolum* ♂ ♀, fq; *Eucer.*: *Tetralonia dilecta* ♂, ab; *Anthophor.*: *Anthophora* ♂.

Short-tongued Bees (17, n)—*Halict.* (♀): *Agapostemon radiatus*, *Augochlora viridula*, *Chloralictus caeruleus*, *eressonii*, *sparsus* se, *zephyrus*, *Curtisapis coriacea*, *Evyllaes foxii* sf, ab, *Halictus lerouxii* sf, *Oxystoglossa confusa*; *Collet.*: *Colletes aestivalis* ♂ ♀; *Andren.*: *Andrena carlini* ♀, *dunningii* ♂, *pruni* ♂ ♀, fq, in cop, *sayi* ♂ ♀, ab, *Trachandrena claytoniae* ♂, *rugosa* ♂.

Diptera (1)—*Bombyli.*: *Bombylius major* n.

Lepidoptera (2)—*Lycaen.*: *Cyaniris* n; *Papilion.*: *Iphielides*.

SCROPHULARIACEAE

Castilleja coccinea (13:598).—Blooms April 27-June 10; 1 visitor observed, May 5, 19; Ma (O), R.

Birds (1)—*Trochil.*: *Trochilus*.

Collinsia verna (13:588-90).—Blooms April 21-June 1; 26 visitors observed, April 21-May 8; Ma, R.

Long-tongued Bees (18)—*Ap.*: *Apis* se, ab; *Bomb.* (♀): *Bombias auricomus*, *scutellaris*, *separatus*, *Bombus americanorum*, *impatiens*, *ridingsii*; *Ceratin.*: *Ceratina* ♂ ♀, fq, *Zaodontomerus* ♂; *Megachil.* (♂ ♀, se): *Ceratostmia* ab, *Diceratostmia* ab, *Osmia atriventris* ab, *collinsiae* fq, *type*, *pumila* ab; *Nomad.*: *Nomada sayi* ♀; *Eucer.*: *Tetralonia belfragei* ♂ ♀, fq, *dilecta* ♂; *Anthophor.*: *Anthophora* ♂ ♀.

Short-tongued Bees (1)—*Halict.*: *Halictus lerouxii* ?, c.

Diptera (3)—*Empid.*: *Empis nuda*, *otiosa*; *Bombyli.*: *Bombylius major*.

Lepidoptera (4, n)—*Papilion.*: *Eurymus*; *Hesper.*: *Thanaos brizo*, *icelus*, *persius*.

Gerardia auriculata (13: 597).—Blooms August 26–September 28; 7 visitors observed, August 30–September 12; Ma, R.

Long-tongued Bees (6)—*Ap.*: *Apis*; *Bomb.* (♀): *Bombias auricomus*, *Bombus americanorum* sc, ab, *impatiens* sc; *Eucer.*: *Melissodes boltoniae* ♀, c; *Megachil.*: *Megachile brevis* ♀, sc.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, esp.

Gerardia grandiflora (13: 594–5).—Blooms July 29–September 20; 11 visitors observed, August 8–September 14; Ma, Y.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (7)—*Bomb.*: *Bombias auricomus* ♀, c, *separatus* ♀, c, *Bombus americanorum* ♂ ♀ ♀, sc, ab, *consimilis* ♀, *impatiens* ♀, sc; *Megachil.*: *Megachile mendica* ♀, c; *Eucer.*: *Melissodes bimaculata* ♂ ♀, sc.

Short-tongued Bees (2, ♀, n): *Halict.*: *Chloralictus versatus* esp, *Curtisapis forbesii* ♀, c.

Diptera (1)—*Syrph.*: *Pipiza nigribarba* f, n.

Gerardia purpurea (13: 595–6).—Blooms August 30–September 29; 5 visitors observed, September 4–26; Ma, R.

Long-tongued Bees (5, sc)—*Bomb.*: *Bombus americanorum* ♂ ♀ ♀, ab, *impatiens* ♀; *Megachil.*: *Megachile brevis* ♀; *Eucer.*: *Melissodes boltoniae* ♀, *nivea* ♀.

Gerardia tenuifolia (13: 596–7).—Blooms August 19–October 16; 17 visitors observed, August 26–September 23; Ma, R.

Long-tongued Bees (10)—*Ap.*: *Apis* sc, ab; *Bomb.* (sc): *Bombias scutellaris* ♀, *separatus* ♀, *Bombus americanorum* ♀ ♀, ab, *impatiens* ♀, ab; *Ceratin.*: *Ceratina* ♀; *Eucer.*: *Melissodes boltoniae* ♀, c; *Megachil.* (♀): *Megachile brevis* sc and cutting petals, fq, *mendica* c, *Xanthosarus* c.

Short-tongued Bees (3)—*Halict.*: *Chloralictus versatus* ♀, esp, n, *Oxystoglossa confusa* ♂, n; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, sc, ab, in cop.

Diptera (1)—*Syrph.*: *Syrphus americanus* fsp, n.

Lepidoptera (2, n)—*Papilion.*: *Eurymus*, *Pieris*.

Coleoptera (1)—*Melo.*: *Pyrota mylabrina* gn, n.

Gratiola virginiana (13: 592).—Blooms May 11–July 17; 1 visitor observed, June 2; Mi, W.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, sc, ab.

Ilysanthes dubia.—Blooms June 19–September 1; 10 species and 18 individuals observed, July 31, August 3, 5, 6; Mi, W.

Short-tongued Bees (5:12)—*Halict.*: *Chloralictus obscurus* ♀, 1, *pilosus* ♂ ♀, 2, *sparsus* ♀, se, 1, *versatus* ♀, se, 7; *Panurg.*: *Calliopsis andreniformis* ♀, 1.

Lepidoptera (5:6)—*Lycaen.*: *Everes* 1; *Papilion.*: *Eurema* 2, *Eurymus* 1; *Hesperi.*: *Ancyloxypha* 1, *Pholisora hayhurstii* 1.

Linaria vulgaris (int, 13:585).—Blooms May 1–October 24; 12 visitors observed, June 25–October 10; Ma, Y.

Long-tongued Bees (6)—*Ap.*: *Apis* se, n; *Bomb.*: *Bombus americanorum* ♂ ♀ ♀, se, ab, *consimilis* ♀, *impatiens* ♀, se; *Megachil.*: *Aleidamea simplex* ♀, se, n, *Megachile brevis* ♀, e, n.

Short-tongued Bees (1)—*Halict.*: *Agapostemon viridulus* ♀, n.

Lepidoptera (5, n)—*Nymphal.*: *Vanessa cardui*; *Papilion.*: *Eurymus*, *Pieris*; *Hesperi.*: *Limochores taumas*, *Thanaos juvenalis*.

Mimulus alatus (8:148).—Blooms July 13–September 5; 1 visitor observed, August 3; Ma, R.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀.

Mimulus ringens (8:147–8).—Blooms July 11–September 7; 2 visitors observed, August 1, 13; Ma, R.

Long-tongued Bees (2)—*Bomb.*: *Bombus americanorum* ♀ ♀, *consimilis* ♀.

Pentstemon hirsutus (13:591–2).—Blooms May 1–June 7; 27 visitors observed, May 1–June 3; Ma, W.

Long-tongued Bees (21)—*Bomb.* (♀): *Bombias auricomus* fq, *separatus*, *Bombus americanorum* fq, *consimilis*, *impatiens*; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Aleidamea simplex* ♂ ♀, se, fq, *Centrosmia* ♀, se, *Ceratosmia* ♀, *Osmia atriventris* ♂ ♀, se, fq, *collinsiae* ♀, *cordata* ♂ ♀, se, fq, *distincta* ♀, se, fq, *pumila* ♀, se, fq; *Nomad.*: *Holonomada affabilis* ♀; *Melict.*: *Bombomelecta* ♀; *Eucer.* (fq); *Tetralonia belfragei* ♂ ♀, se, *dilecta* ♂ ♀, in cop, *rosea* ♂; *Anthophor.*: *Anthemoessa* ♂, ab, *Anthophora* ♂ ♀, se, fq.

Other Hymenoptera (1)—*Eumen.*: *Leionotus foraminatus*, perforating.

Diptera (1)—*Bombyli.*: *Bombylius atriceps*.

Lepidoptera (4, n)—*Papilion.*: *Heraclides*, *Laertias*, *Papilio*; *Hesperi.*: *Atrytone zabulon*.

Pentstemon laevigatus (13:590–1).—Blooms May 18–July 9; 30 visitors observed, May 28–June 26; Ma, W.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (17)—*Ap.*: *Apis*; *Bomb.*: *Bombias auricomus* ♀, *Bombus americanorum* ♀ ♀, *consimilis* ♀, *impatiens* ♀;

Ceratin.: Ceratina ♀, c, n; *Megachil.*: Osmiini: Alcidamea simplex ♂ ♀, sc, ab, Monilosmia ♀, Osmia distincta ♀, sc, fq, pumila ♀; Megachilini: Cyphopyga ♂ ♀, Megachile brevis ♀; *Eucer.* (♂ ♀, fq): Tetralonia dilecta, rosae; *Anthophor.* (sc): Anthemoessa ♂ ♀, fq, Anthophora ♀, fq, Clisodon ♀.

Short-tongued Bees (5)—*Halict.* (♀, c, n): Agapostemon viridulus, Chloralictus pilosus, pruinosis, versatus, Curtisapis coriacea.

Other Hymenoptera (2, n)—*Eumen.*: Leionotus foraminatus, perforating, anormis, at holes.

Diptera (1)—*Syrph.*: Mesogramma marginata fsp, n.

Lepidoptera (3, n)—*Papilion.*: Euphoeades, Eurymus; *Sphing.*: Deilephila.

Coleoptera (1)—*Scarabae.*: Trichius piger f, n.

Scrophularia marilandica (13: 586-8).—Blooms July 8-October 26; 39 visitors observed, July 12-September 19; Mi, R.

Birds (1)—*Trochil.*: Trochilus fq.

Long-tongued Bees (7)—*Ap.*: Apis ab; *Bomb.*: Bombus consimilis ♂ ♀, ab, impatiens ♀, sc, ab; *Ceratin.*: Ceratina ♀; *Megachil.*: Anthemois ♂, Cyphopyga ♀; *Eucer.*: Melissodes bimaculata ♂ ♀, fq.

Short-tongued Bees (9)—*Halict.*: Agapostemon viridulus ♂, Augochlora viridula ♂, Chloralictus sparsus ♂ ♀, fq, versatus ♂ ♀, sc, ab, zephyrus ♂ ♀, ab, Curtisapis coriacea ♂ ♀, sc, Halictus lerouxii ♀, sc, Oxystoglossa confusa ♂ ♀, sc, fq, Seladonia ♂ ♀ sc.

Other Hymenoptera (17)—*Sphex.*: Sphex vulgaris; *Philanth.*: Philanthus punctatus; *Vesp.*: Polistes annularis, pallipes, rubiginosus, variatus, Vespula cuneata, germanica ab, maculata ab; *Eumen.*: Ancistrocerus campestris, Eumenes fraternus fq, Leionotus anormis, foraminatus, scrophulariae, ziziae, Monobia, Zethus.

Diptera (3)—*Syrph.* (f, n): Mesogramma marginata, polita; *Tachin.*: Siphona.

Lepidoptera (2)—*Lycaen.*: Everes; *Ctenuch.*: Scepsis.

August 6, 14, the following 8 species and 26 individuals were taken on the flowers:—

Short-tongued Bees (3:21)—*Halict.*: Chloralictus sparsus 5, versatus 7, zephyrus 9.

Other Hymenoptera (4:4)—*Vesp.*: Polistes annularis 1, pallipes 1, variatus 1, Vespula maculata 1.

Diptera (1)—*Tachin.*: Siphona 1.

Seymeria macrophylla (13: 593-4).—Blooms July 13-August 22; 9 visitors observed, July 28-August 8; Ma, Y.

Long-tongued Bees (6)—*Ap.*: *Apis*; *Bomb.* (♀): *Bombus americanorum* se, ab, consimilis se, ab, impatiens, ridingsii se; *Eucer.*: *Melissodes bimaculata* ♂.

Diptera (1)—*Syrph.*: *Milesia* f, n.

Lepidoptera (2, n)—*Papilion.*: *Pieris*; *Hesperi.*: *Atrytone zabulon* fq.

Verbascum thapsus (int, 13: 583-4).—Blooms June 4–October 26; 16 visitors observed, June 27–August 15; Ma, Y.

Long-tongued Bees (3)—*Ap.*: *Apis* e; *Bomb.* (♀): *Bombus americanorum* e, consimilis se.

Short-tongued Bees (6)—*Halict.* (♀, e): *Agapostemon viridulus*, *Augochlora viridula*, *Chloralictus cressonii*, *versatus*, *Curtisapis coriacea*, *Evylaeus pectoralis*.

Diptera (7, f, n)—*Syrph.*: *Allograpta*, *Mesogramma geminata*, *marginata*, *Pipiza nigribarba*, *Syritta*, *Syrphus americanus*; *Anthomy.*: *Phorbia platura*.

Veronica arvensis (int).—Blooms April 12–June 12; 3 visitors observed, May 3, 19; Mi, R.

Short-tongued Bees (2)—*Halict.* (♀): *Chloralictus versatus* 3, *Oxystoglossa similis* 1.

Diptera (1)—*Syrph.*: *Mesogramma marginata* 4.

Veronica peregrina.—Blooms April 9–June 20; 13 visitors observed, May 3–8; Mi, W.

Short-tongued Bees (8, ♀)—*Halict.*: *Chloralictus pilosus*, *pruinus*, *sparsus*, *versatus* fq, *zephyrus*, *Oxystoglossa similis* fq, *Seladonia* fq; *Andren.*: *Opandrena cressonii*.

Diptera (4)—*Syrph.*: *Mesogramma marginata*, *Sphaerophoria*; *Anthomy.*: *Phorbia acra*; *Oscin.*: *Oscinis soror*.

Hemiptera (1)—*Corimelaen.*: *Corimelaena pulicaria*.

Veronica virginica (13: 592-3).—Blooms June 20–August 27; 42 visitors observed, July 7–August 11; Mis, W.

Long-tongued Bees (9)—*Ap.*: *Apis* ab; *Bomb.* (♀): *Bombus americanorum*, consimilis; *Ceratin.*: *Ceratina* ♀, se; *Megachil.*: Trypetini: *Neotrypetes truncatus* ♀, e; Osmini: *Aleidamea simplex* ♀, *Hoplitis* ♀, se; *Coelioxyni*: *Coelioxys 8-dentata* ♂, fq; *Eucer.*: *Melissodes bimaculata* ♂ ♀, fq.

Short-tongued Bees (13)—*Halict.*: *Agapostemon texanus* ♂, *viridulus* ♂ ♀, *Augochlora fervida* ♀, *Chloralictus pilosus* ♂, *sparsus* ♀, e, *versatus* ♀, se, fq, *Curtisapis coriacea* ♀, e, *Odontalictus* ♀, *Seladonia* ♂ ♀; *Prosopid.*: *Prosopis pygmaea* ♀, *ziziae* ♀.

Other Hymenoptera (4)—*Sphec.*: *Ammobia ichneumonea*, *Sphex nigricans*, *procera*; *Bembic.*: *Stictia*.

Diptera (8)—*Syrph.*: *Eristalis aeneus* sf, *tenax* sf, *transversus* f, n, *Mesogramma marginata* f, n, *Syritta*; *Bombyli.*: *Exoprosopa fasciata*; *Conop.*: *Oncomyia*; *Tachin.*: *Archytas analis*.

Lepidoptera (7)—*Nymphal.*: *Vanessa huntera*; *Lycaen.*: *Chrysophanus*, *Everes*; *Papilion.*: *Pieris*; *Ctenuch.*: *Scepsis*; *Pyraust.*: *Loxostege*, *Nomophila*.

Hemiptera (1)—*Lygae.*: *Lygaeus*.

SOLANACEAE

Datura stramonium (int).—Blooms June 4–October 26; 2 visitors observed, June 25, 27; Ma, W.

Lepidoptera (2)—*Sphinx.*: *Philampelus*, *Protoparce*.

Datura tatula (int, 13:582).—Blooms May 26–October 28; 10 visitors observed, July 13–October 28; Ma, W.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (1)—*Ap.*: *Apis* c, ab, n.

Short-tongued Bees (1)—*Halict.*: *Chloralictus versatus* ♀, c, n.

Diptera (4, f, n)—*Syrph.*: *Allograpta*, *Mesogramma marginata*, *Rhingia*, *Syrphus ribesii*.

Lepidoptera (2)—*Sphinx.*: *Deilephila*, *Protoparce*.

Coleoptera (1)—*Chrysomel.*: *Diabrotica* 12-punctata f, n.

Physalis lanceolata (8:146).—Blooms May 12–October 3; 5 visitors observed, May 12–September 29; Mi, Y.

Long-tongued Bees (1)—*Anthophor.* *Anthophora* ♀.

Short-tongued Bees (4)—*Halict.*: *Chloralictus versatus* ♀, c;

Collet.: *Colletes latitarsis* ♂ ♀, se, ab; *willistonii*, ♂ ♀, se, fq, *type*; *Panurg.*: *Zaperdita* ♂ ♀, se, ab.

Physalis subglabrata (8:146–7).—Blooms July 12–September 27; 1 visitor observed, July 27; Mi, Y.

Short-tongued Bees (1)—*Collet.*: *Colletes latitarsis* ♀, se.

Physalis virginiana (8:146).—Blooms June 7–October 4; 5 visitors observed, June 19–August 1; Mi, Y.

Short-tongued Bees (5)—*Halict.* (♀, se): *Evyllaes pectinatus*, *Oxystoglossa confusa*; *Collet.*: *Colletes latitarsis* ♂ ♀, se, ab, *type*, *willistonii* ♀, se; *Panurg.*: *Zaperdita* ♂ ♀, se.

Solanum carolinense (13:582).—Blooms June 4–October 7; 3 visitors observed, June 25–August 29; Ma, W.

Long-tongued Bees (3, ♀, c)—*Bomb.*: *Bombias scutellaris*, *Bombus americanorum*, *impatiens*.

Solanum nigrum (13:582).—Blooms June 6–October 20; 2 visitors observed, August 29, September 3; Ma, W.

Long-tongued Bees (2, ♀, c)—*Bomb.*: *Bombus americanorum*, *impatiens*.

Solanum rostratum (int).—Blooms July 9–October 4; 1 visitor observed, July 23; Ma, Y.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♀, c.

STAPHYLEACEAE

Staphylea trifolia (14:302–3).—Blooms April 23–May 12; 21 visitors observed, April 23–May 11; Mi, W.

Long-tongued Bees (4)—*Ap.*: *Apis* se, ab; *Bomb.* (♀, ab): *Bombus americanorum*, *consimilis*, *impatiens*.

Short-tongue Bees (9)—*Halict.* (♀): *Curtisapis coriacea*, *Evyllaenus* †-*maculatus*, *Seladonia*; *Collet.*: *Colletes inaequalis* ♂; *Andren.*: *Andrena mandibularis* ♀, *pruni* ♀, se, *sayi* ♂ ♀, fq, in cop, *type*, *Opandrena miserabilis* ♀, *Trachandrena nuda* ♀, *type*.

Other Hymenoptera (1)—*Vesp.*: *Vespula maculata*.

Diptera (4)—*Syrph.*: *Eristalis flavipes* f; *Empid.*: *Empis otiosa* ab, *Pachymeria*; *Bombyli.*: *Bombylius major*.

Lepidoptera (1)—*Hesper.*: *Thanaos juvenalis*.

Coleoptera (2)—*Cerambyc.*: *Molorchus*; *Scarabae.*: *Euphoria sepulchralis*.

Hemiptera (1)—*Caps.*: *Lygus*.

THYMELAEACEAE

Dirca palustris (9:73–4).—Blooms March 18–April 30; 11 visitors observed, March 21; Mi, Y.

Long-tongued Bees (4, ♂)—*Ceratin.*: *Ceratina*, *Zaodontomerus*; *Megachil.*: *Ceratostmia*; *Nomad.*: *Gnathias euneatus*.

Short-tongued Bees (6)—*Halict.* (♀): *Chloralictus similacinae*, *versatus*, *zephyrus*, *Oxystoglossa pura*; *Collet.*: *Colletes inaequalis* ♂; *Andren.*: *Trachandrena rugosa* ♂.

Lepidoptera (1)—*Nymphal.*: *Euvanessa*.

TILIACEAE

Tilia americana.—Blooms June 4–July 12; 29 species and 130 individuals observed, July 2, 6, 7; Mi, Y.

Long-tongued Bees (2:37)—*Ap.*: *Apis* 36; *Bomb.*: *Bombus americanorum* ♀, 1.

Short-tongued Bees (11:61)—*Halict.*: *Augochlora viridula* ♂ ♀, 8, *Chloralictus illinoensis* ♀, 1, *sparsus* ♂ ♀, se, 22, *versatus* ♀, 4, *zephyrus* ♀, se, 12, *Curtisapis coriacea* ♀, se, 1, *forbesii* ♀, 2, *Evyllaenus*

pectoralis ♂ ♀, 2, *Halictus lerouxii* ♀, 1, *Oxystoglossa confusa* ♀, 1.

Other Hymenoptera (3:3)—*Sphec.*: *Ammobia ichneumonea* 1; *Scoli.*: *Elis 5-cincta* 1; *Eumen.*: *Leionotus foraminatus* 1.

Diptera (11:27)—*Syrph.*: *Allograpta* 2, *Orthoneura nitida* 1, *Syrphus americanus* 2; *Tachin.*: *Archytas aterrима* 1, *Peleteria* 1; *Sarcophag.*: *Calliphora erythrocephala* 1; *Musc.*: *Graphomyia* 1, *Lucilia caesar* 4, *Phormia regina* 1, *Pseudopyrellia* 11; *Anthomy.*: *Phorbia acra* 2.

Lepidoptera (1:1)—*Ctenuch.*: *Scepsis* 1.

Coleoptera (1:1)—*Malach.*: *Anthocomus* 1.

UMBELLIFERAE

Anethum graveolens (Mis, Y: cult).—July 12–16, 1920, 1000 individuals taken on the flowers showed:

Long-tongued Bees (2)—*Ap.* 1, *Megachil.* 1.

Short-tongued Bees (635)—*Halict.* ♂ ♀, mostly ♀ sc., 585, *Prosoxid.* ♂ ♀, 50.

Other Hymenoptera (43)—*Oxybel.* 19, *Cercer.* 12, *Scoli.* 4, *Bracon.* 3, *Larr.* 2, *Eumen.* 1, *Nysson.* 1, *Sphec.* 1.

Diptera (292)—*Syrph.* 246, *Musc.* 27, *Sarcophag.* 7, *Anthomy.* 4, *Tachin.* 4, *Oscin.* 2, *Mycetophil.* 1, *Seps.* 1.

Hemiptera (25)—*Caps.*

Coleoptera (3)—Fam.? 1, *Mordell.* 2.

Chaerophyllum procumbens (12:459–60).—Blooms April 6–May 26; 49 visitors observed, April 16–May 4; Pol, W.

Long-tongued Bees (4)—*Megachil.*: *Ceratosmia* ♀, *Osmia pumila* ♀, *Nomad.*: *Heminomada* ♂, *Nomada sayi* ♀ type.

Short-tongued Bees (12)—*Halict.* (♀): *Chloralictus cressonii*, *obscurus*, *sparsus*, *versatus*, *Evylaeus 4-maculatus type*; *Halictus lerouxii* fq, *Oxystoglossa confusa*, *pura*; *Sphecondini*: *Proteraner* ♂; *Andren.*: *Andrena carlini* ♀, *nasonii* ♀, sc, *Opandrena ziziae* ♂.

Other Hymenoptera (4)—*Chalcid.*: *Chrysocharis oscinidis*; *Ichneumon.*: *Gambrus albonotatus*, *apicatus*, *Pimpla marginata*.

Diptera (23)—*Simuli.*: *Simulium*; *Syrph.*: *Chilosia petulca*, *Mesogramma geminata* in cop, *marginata*, *Orthoneura nitida*, *Paragus bicolor*, *tibialis*, *Pipiza femoralis*, *nigribarba*, *Psilota*, *Sphaerophoria*, *Syrphus americanus*, *torvus*, *ribesii*; *Phor.*: *Trineura*; *Sarcophag.*: *Helicobia helicis*; *Musc.*: *Myospila*, *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*; *Seps.*: *Sepsis*; *Oscin.*: *Elachiptera costata*, *Hippelates flavipes*, *Ossinis soror*.

Coleoptera (4)—*Chrysomel.*: *Diabrotica vittata*, *Glyptina*, *Mantura*; *Anthic.*: *Corphyra terminalis*.

Hemiptera (2)—*Corimelaen.*: *Corimelaena pulicaria*, *lateralis*.

Cicuta maculata (12:459-60).—Blooms June 27-September 16; 283 visitors observed, July 8-September 8; Pol, W.

Long-tongued Bees (7)—*Megachil.*: *Megachile brevis* ♂, *petulans* ♂, *Sayapis pugnata* ♀; *Bomb.*: *Bombias auricomus* ♂, *Bombus impatiens* ♀; *Ap.*: *Apis*; *Eucer.*: *Melissodes bimaculata* ♂.

Short-tongued Bees (22)—*Prosopid.*: *Prosopis illinoensis* ♂ ♀, *pygmaea* ♂ ♀, *saniculae* ♀, *sayi* ♂ ♀, *ziziae* ♀; *Collet.* (♂): *Colletes armatus*, *eulophi*, *latitarsis*; *Halict.*: *Agapostemon radiatus* ♂ ♀, *viridulus* ♂, *Augochlora fervida* ♀, *viridula* ♀, *Chloralictus sparsus* ♀, *se, versatus* ♂ ♀, *se, Halictus lerouxii* ♂ ♀, *se, fq, parallelus* ♂ ♀, *se, Odontalictus* ♀, *se, Oxystoglossa confusa* ♀, *se, pura* ♀, *Seladonia* ♂ ♀; *Sphécodini* (♂ ♀): *Machaeris stygia*, *Sphécodes arvensis* fq.

Other Hymenoptera (147)—*Crabron.*: *Anaerabro* fq, *Clytochrysus*, *Ectemnius*, *Hypoerabro*, *Lindenius errans* fq, *Protothyreopus rufifemur*, *Pseudoerabro* fq, *Solenius*, *Xestoerabro 6-maculatus*, *texanus*, *trifasciatus*; *Oxybel.*: *Notoglossa americana* fq, *ressonii type*, *emarginata*, *frontalis* fq, *inornata type*, *Oxybelus laetus*, *niger*, *packardii* fq, *4-notatus* fq; *Trypoxyl.*: *Trypoxylon tridentatum*; *Philanth.*: *Cereceris bicornuta*, *clypeata*, *compacta* fq, *finitima*, *fumipennis*, *kennicottii*, *Eucereceris*, *Philanthus punctatus*; *Pemphredon.*: *Psen*; *Sphéc.*: *Ammobia ichneumonea*, *pennsylvanica*, *Chalybion*, *Chlorion* fq, *Isodontia apicalis*, *macrocephala*, *Priononyx atrata*, *thomae*, *Sceliphron* ab, *Sphex gracilis*, *nigricans*, *vulgaris*; *Larr.*: *Astatus bicolor*, *unicolor* fq, *Larra*, *Larropsis*, *Lyroda* fq, *Notogonidea* fq, *Tachysphex acutus*, *belfragei* fq, *tarsatus*, *terminatus*, *Tachytes aurulentus* fq, *elongatus* fq, *mandibularis*, *obscurus*, *pepticus*, *sericatus*; *Bembic.*: *Bicyrtes 4-fasciata*, *Bembix spinolae*, *Megastizus* fq, *in cop*, *Sphécus* fq, *Stizus*; *Nysson.*: *Hoplisus atricornis*, *simillimus*, *Nysson plagiatus*, *Zanysson aurinotus*, *Pseudoplisus phaleratus* fq; *Pompil.*: *Ageniella longula*, *Anoplius illinoensis*, *Arachnoproctonus*, *Batizonus*, *Ceropales bipunctata*, *elegans*, *fraterna*, *fulvipes*, *robinsonii*, *Cryptocheilus fulgiferus*, *Epysiron*, *Lophopompilus atrox*, *philadelphicus* fq, *Poecilopompilus interruptus*, *navus* fq, *Pompiloides americanus*, *Priocnemoides fulvicornis* fq, *terminatus*, *unifasciatus*, *Psammochares relativus* fq, *tenebrosus*, *Sophropompilus*; *Vesp.*: *Polistes annularis*, *pallipes*, *variatus* fq, *rubiginosus*, *Vespula euneata*, *germanica*, *maculata*, *vidua*; *Eumen.*: *Ancistrocerus campestris*, *tigris*, *Eumenes fraternus*, *Leionotus anormis*, *arvensis*, *dorsalis* fq, *foraminatus* fq, *4-sectus* fq, *serophulariae*, *Monobia*; *Scoli.*: *Elis interrupta* fq, *obscura*, *5-cincta* ab, *thoracica*, *Scolia bicincta* fq, *nobilitata*; *Tiph.*: *Tiphia*

illinoensis *type*, transversa; *Mutill.* (σ): Pseudomethoca, Sphaerophthalma, Mutilla hexagona, sayi; *Formic.*: Formica fusca σ ; *Chrysid.*: Gono-chrysis, Hedychridium, Hedychrum wiltii, Holopyga fq, Monochrysis, Notozus, Tetrachrysis caerulans, montana, venusta; *Figit.*: Eucoilidia canadensis, Figites 5-lineata, Psilodora erythropus, impatiens; *Chalcid.*: Chalcis, Bruchophagus, Leucospis, Perilampus triangularis, cyaneus; *Evani.*: Foenus tarsatorius; *Ichneumon.*: Ichneumon jucundus; *Bracon.*: Bassus, Agathis vulgaris, Orgilus, Bracon vernoniae, Microgaster, Iphiaulax.

Diptera (83)—*Mycetophil.*: Eugnoriste, Sciara atrata; *Bibion.*: Scatopse pulicaria; *Taban.*: Chrysops striatus, Tabanus; *Stratiomy.*: Nemetelus, Stratiomyia meigenii, unilimbata; *Mida.*: Midas clavatus, tibialis; *Bombyli.*: Exoprosopa fascipennis; *Scenopin.*: Scenopinus; *Syrph.*: Allograpta, Eristalis aeneus, flavipes, latifrons, tenax, Mallota illinoensis, Mesogramma geminata, marginata, polita, Orthoneura nitida in cop, Paragus bicolor fq, tibialis, Pipiza pulchella, Platychirus quadratus, Sphaerophoria fq, Syrretta ab, Tropidia quadrata; *Conop.*: Conops brachyrrhynchus, xanthopareus, Oncomyia, Zodion nanellum; *Tachin.*: Alophora aeneoventris, Archytas analis, aterrima, hystrix, Paradidyma, Trichophora, Ennyomma elistoides, Clytiomyia, Exorista confinis, pyste, Cistogaster occidua fq, pallasii, Gymnosoma, Belvosia bifasciata, unifasciata, Linnaemyia fq, Opsidia, Pachyophthalmus signatus (aurifrons fq, *type*), Phasioclista, Phorantha pruinosa, purpurascens fq, *type*, Euphorocera claripennis fq, Senotainia rubriventris fq, trilineata fq, Spallanzania, Sturmia nigrita, Tachina rustica, Trichopoda lanipes, pennipes, Winthemia; *Sarcophag.*: Helicobia heli-cis, Sarcophaga assidua, cimbicis, hunteri, sinuata; *Musc.*: Compsomyia fq, Graphomyia, Morellia, Musca fq, Phormia regina, Pseudopyrellia ab, Stomoxys; *Anthomy.*: Calythea, Limnophora, Phorbia acra, Hylemyia laevis; *Trypet.*: Euaresta aequalis; *Seps.*: Sepsis; *Oscin.*: Hippelates plebejus; *Agromyz.*: Agromyza latipes.

Lepidoptera (8)—*Nymphal.*: Argynnis, Basilarchia archippus, Hypatus, Phyciodes; *Lycaen.*: Everes; *Papilion.*: Eurymus, Iphiclides; *Ctenuch.*: Sepsis.

Coleoptera (14)—*Coccinell.*: Coccinella 9-notata, Scymnus consobrinus; *Cerambyc.*: Batyle, Euderces; *Chrysomel.*: Diabrotica atripennis, 12-punctata; *Bruch.*: Bruchus bivulneratus; *Mordell.*: Mordella marginata, melaena, scutellaris; *Melo.*: Epicauta trichrus; *Rhipiphor.*: Myodites; *Curculion.*: Centrinus picumnus, scutellum-album.

Hemiptera (2)—*Corimelaen.*: Corimelaena pulicaria; *Phymat.*: Phymata, pred.

Cryptotaenia canadensis (12: 459-60).—Blooms June 1-July 17; 112 visitors observed, June 8-July 9; Pol, W.

Long-tongued Bees (2)—*Megachil.*: *Neotrypetes truncatus* ♂ ♀, se; *Ceratin.*: *Ceratina* ♀.

Short-tongued Bees (28)—*Prosopid.*: *Prosopis pygmaea* ♂ ♀, *saniculae* ♀, *ziziae* ♂ ♀; *Collet.*: *Colletes eulophi* ♂; *Halict.*: *Agapostemon radiatus* ♂ ♀, *Chloralictus caeruleus* ♂, *ressonii* ♀, *illinoensis* ♂, *pilosus* ♀, *sparsus* ♂ ♀, se, ab, *versatus* ♂ ♀, ab, *zephyrus* ♂ ♀, *Evylaeus foxii* ♂, *pectinatus* ♀, *pectoralis* ♀, fq, *truncatus* ♀, *type*, *Halictus lerouxii* ♀, *Odontalictus* ♀, *Oxystoglossa confusa* ♀, *pura* ♂ ♀, fq, *Seladonia* ♂ ♀, fq; *Sphecodini*: *Machaeris stygia* ♂, *Sphecodes arvensis* ♀, *Sphecodium cressonii* ♂ ♀, fq; *Andren.* (♀): *Andrena platyparia*, *Opandrena serotina* se, *Trachandrena spiraeana*; *Panurg.*: *Calliopsis andreniformis* ♂.

Other Hymenoptera (19)—*Crabron.*: *Anaerabro*, *Clytochrysus*, *Solenius*; *Oxybel.*: *Oxybelus niger*, 4-notatus, *Philanth.*: *Cerceris astarte*, *clypeata*; *Pompil.*: *Ceropales fraterna*, *Pseudagenia*; *Eumen.*: *Ancistrocerus tigris*, *Leionotus perennis*, *Symmorphus debilis*; *Chrysid.*: *Hedychrum parvum*, violaceum; *Evani.*: *Foenus incertus*, *tarsatorius*; *Ichneumon.*: *Lissonota tricincta*, *Polyblastus*, *Polysphincta*.

Diptera (43)—*Bibion.*: *Scatopse pulicaria*; *Lept.*: *Hilarimorpha mikii*, *type*; *Bombyli.*: *Anthrax sinuosa*, *Geron calvus*; *Empid.*: *Empis loripedis*, *Parempis*; *Syrph.*: *Allograpta*, *Eristalis transversus*, *Mesogramma geminata* fq, *marginata*, *Orthoneura nitida*, *Paragus bicolor* ab, *tibialis* fq, *Pipiza femoralis*, *nigribarba*, *Syritta* fq, *Syrphus americanus*, *ribesii* fq, *Volucella vesiculosa*, *Xanthogramma emarginata*; *Conop.*: *Oneomyia*, *Zodion fulvifrons*, *nanelum*; *Tachin.*: *Cistogaster occidua*, *pallasii*, *Linnaemyia*, *Metopia*, *Ocyptera tenuis*, *Siphona* fq, *Xanthomelana*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*, *platura*; *Scatophag.*: *Cordylura*; *Sapromyz.*: *Sapromyza vulgaris*; *Seps.*: *Sepsis*; *Drosophil.*: *Drosophila*; *Oscin.*: *Chlorops proxima*, *Elachiptera flavida*, *Hippelates flavipes*, *Oscinis trigramma*, *Siphonella inquilina*.

Coleoptera (19)—*Coccinell.*: *Seymnus terminatus*; *Dermest.*: *Cryptorhopalum triste*; *Lampyr.*: *Podabrus brunnicollis*; *Malach.*: *Anthocomus*; *Cerambyc.*: *Euderces*, *Typocerus lugubris*; *Chrysomel.*: *Diabrotica 12-punctata*; *Bruch.*: *Bruchus bivulneratus*, *exiguus*, *mimus* fq, *museulus*; *Mordell.*: *Mordella marginata*, *triloba*, *Mordellistena limbalis*, *pubescens*, *Pentaria*; *Rhynchit.*: *Eugnamptus*; *Curculion.*: *Apion*, *Centrinus picumnus*.

Hemiptera (1)—*Corimelaen.*: *Corimelaena lateralis*.

Erigenia bulbosa (12:159-60).—Blooms March 15–April 21; 63 visitors observed, March 20–April 21; Mis, W.

Long-tongued Bees (7)—*Megachil.* (♂): *Ceratostmia*, *Osmia atriventris*, *pumila*; *Ceratin.*: *Ceratina* ♂, fq, *Zaodontomerus* ♂; *Bomb.*: *Bombus consimilis* ♀; *Ap.*: *Apis* se, ab.

Short-tongued Bees (22)—*Collet.*: *Colletes inaequalis* ♂ ♀, fq; *Halict.* (♀): *Agapostemon radiatus*, *Augochlora viridula*, *Chloralictus pilosus*, *sparsus*, *versatus*, *Curtisapis forbesii type*, *Evylaeus foxii*, *Halictus lerouxii*, *Oxystoglossa confusa*, *Seladonia*; *Andren.*: *Andrena carlini* ♂ ♀, ab, in cop, *type*, *erythronii* ♂ ♀, *salictaria* ♀, *sayi* ♂, *Opandrena miserabilis* ♂, *Parandrena* ♂ ♀, *Ptilandrena erigeniae* ♂ ♀, fq, *type*, *Trachandrena forbesii* ♀, *mariae* ♂ ♀, *nuda* ♀, *rugosa* ♂ ♀, fq, in cop, *type*.

Other Hymenoptera (1)—*Chrysid.*: *Holochrysis hilaris*.

Diptera (29)—*Tipul.*: *Geranomyia*; *Stratiomy.*: *Odontomyia pubescens*; *Bombyli.*: *Bombylius major*; *Syrph.*: *Brachypalpus frontosus*, *Chilosia capillata*, *Eristalis dimidiatus* ab, *latifrons*, *Helophilus similis*, *Melanostoma obscurum* fq, *Mesogramma geminata*, *marginata*, *Platycheirus hyperboreus*, *Syritta*, *Syrphus americanus*; *Tachin.*: *Epalpus*, *Euphorocera claripennis*, *Gonia capitata* ab; *Sarcophag.*: *Cynomyia*, *Helicobia 4-setosa*; *Musc.*: *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Phorbia acra*, *platura*, *Hammomyia*; *Lonchae.*: *Lonchaea aberrans*, *parvicornis*; *Scatophag.*: *Scatophaga*; *Oscin.*: *Elachiptera costata*, *Oscinis coxendix*.

Lepidoptera (2)—*Papilion.*: *Pontia*; *Noctu.*: *Plusia simplex*.

Coleoptera (2)—*Chrysomel.*: *Diabrotica vittata*; *Oedemer.*: *Asclera ruficollis*.

Eryngium yuccifolium (12:459-60).—Blooms July 7–August 30; 182 visitors observed, July 7–August 12; Pol, W.

Long-tongued Bees (13)—*Megachil.*: *Megachilini*: *Megachile brevis* ♂ ♀, se, *mendica* ♂, *petulans* ♂, *Coelioxyni*: *Coelioxys octodentata* ♂ ♀, in cop, *sayi* ♂; *Ceratin.*: *Ceratina* ♂ ♀; *Bomb.*: *Bombus separatus* ♂ ♀, *Bombus americanorum* ♀, *impatiens* ♀; *Ap.*: *Apis*; *Nomad.*: *Cephen* ♀; *Epeol.*: *Epeolus bifasciatus* ♂, *Triepeolus lunatus* ♀.

Short-tongued Bees (20)—*Prosopid.* (♂ ♀): *Prosopis pygmaea*, *ziziae*; *Collet.*: *Colletes speciosus* ♀, *type*; *Halict.*: *Agapostemon radiatus* ♂ ♀, *Augochlora fervida* ♀, *Chloralictus pilosus* ♀, *sparsus* ♀, se, *versatus* ♀, se, *Curtisapis forbesii* ♀, *Evylaeus arcuatus* ♀, *pectoralis* ♀, *Halictus lerouxii* ♂ ♀, *parallelus* ♂ ♀, *Odontalictus* ♀, *Seladonia* ♂; *Sphecodini*: *Machaeris stygia* ♀, *Sphecodes arvensis* ♂ ♀, in cop, *Sphecodium cressonii* ♀; *Nomi.*: *Paranomia* ♀; *Panurg.*: *Calliopsis andreniformis* ♂ ♀.

Other Hymenoptera (58)—*Crabron.*: *Protothyreopus ruffemur*, *Pseudoerabo*; *Oxybel.*: *Notoglossa americana*, *frontalis*, *Oxybelus 4-notatus*; *Philanth.*: *Cereceris bicornuta*, *fumipennis*, *prominens*, *raui*, *Eucereceris*, *ab*, *Philanthus punctatus*, *ventilabris*; *Sphec.*: *Ammobia ichneumonea*, *nuda*, *pennsylvaniae*, *Isodontia apicalis*, *Priononyx atrata*, *thomae*, *Sphex gracilis*, *nigricans*, *pietipennis* in cop, *vulgaris*; *Larr.*: *Astatus unicolor*, *Tachysphex belfragei*, *Tachytes aurulentus*, *distinetus*, *elongatus*; *Bombic.*: *Bicyrtes 4-fasciata*, *ventralis*, *Bembix nubillipennis*, *spinolae*, *Megastizus*, *Stizus*; *Pompil.*: *Arachnoproctonus*, *Ceropales elegans*, *Lophopompilus atrox*, *philadelphicus*, *Poecilopompilus navus*, *Pompiloides americanus*, in cop, *Priocnemoides fulvicornis*; *Vesp.*: *Polistes variatus*; *Eumen.*: *Ancistrocerus campestris*, *Eumenes belfragei*, *fraternus*, *Leionotus anormis* in cop, *arvensis*, *dorsalis* fq, *foraminatus*, *vagus*, *Monobia*; *Scoli.*: *Elis interrupta*, *obscura*, *5-cincta*, *thoracica type*, *Scolia bicincta*, *nobilitata*; *Mutill.*: *Mutilla hexagona* ♂; *Chalcid.*: *Leucospis*.

Diptera (59)—*Taban.*: *Tabanus*; *Stratiomy.*: *Nemotelus*, *Odonatomyia cincta*; *Mida.*: *Midas clavatus*, *tibialis*; *Bombyli.*: *Anthrax alternata*, *fulvohirta*, *Exoprosopa decora*, *fasciata*, *fascipennis*, *Geron rufipes*, *Systoechus*; *Syrph.*: *Allograpta*, *Eristalis aeneus*, *latifrons*, *tenax*, *transversus*, *Mesogramma geminata*, *marginata*, *polita*, *Milesia*, *Orthonera nitida*, *Paragus tibialis*, *Sphaerophoria*, *Syritta*; *Conop.*: *Conops brachyrrhynchus*, *xanthopareus*, *Oncomyia*, *Physocephala texana*, *tibialis*, *Zodion fulvifrons*, *nanellum*, *obliquefasciatum*; *Tachin.*: *Alophora aeneoventris*, *fumosa*, *Archytas analis*, *Belvosia bifasciata*, *Cistogaster occidua*, *pallasi*, *Gymnosoma*, *Leskia*, *Ocyptera lata*, *tenuis*, *Phorantha asteris*, *humeralis*, *magna*, *pruinosa*, *Senotainia rubriventris*, *trilineata*, *Spallanzania*, *Trichopoda pennipes*, *Trichophora*; *Sarcophag.*: *Sarcophaga assidua*; *Musc.*: *Compsomyia*, *Protocealliphora*, *Pseudopyrellia*; *Anthomy.*: *Coenosia antica*, *Lispa uliginosa*, *Phorbia acra*.

Lepidoptera (21)—*Nymphal.*: *Anosia*, *Basilarchia archippus*, *Cereyonis*, *Charidryas*, *Phyciodes*, *Speyeria*; *Lycaen.*: *Chrysophanus*, *Everes*, *Uranotes*; *Papilion.*: *Euphrocades*, *Eurymus*, *Laertia*, *Pontia*; *Hesper.*: *Limochores taumas*, *Pholisora catullus*, *Polites*; *Sesi.*: *Sesia sexfasciata*; *Ctenuch.*: *Scepsis*; *Arcti.*: *Utheisa*; *Noctu.*: *Acontia*, *Spragueia*.

Coleoptera (8)—*Scarabac.*: *Euphoria sepulchralis*, *Trichius piger*; *Chrysomel.*: *Cryptocephalus*; *Mel.*: *Nemognatha*, *Pyrota terminata*; *Rhipiphor.*: *Myodites*, *Rhipiphorus limbatus*; *Curculion.*: *Centrinus scutellum-album*.

Hemiptera (3)—*Core.*: *Alydus eurinus*; *Lygae.*: *Lygaeus*, *Oncopeltus*.

Eulophus americanus (12: 459-60).—Blooms May 12-June 15; 130 visitors observed, May 28-June 15; Pol, W.

Long-tongued Bees (1)—*Ceratin.*: *Zaodontomerus* ♂,

Short-tongued Bees (21)—*Prosopid.*: *Prosopis eulophi* ♂ ♀, fq, *type*, *illinoensis* ♂, *pygmaea* ♂ ♀, *saniculae* ♂ ♀, *sayi* ♂ ♀, *thaspis* ♀, *ziziae* ♂ ♀; *Collet.*: *Colletes aestivalis* ♀, *eulophi* ♂, *type*; *Halict.*: *Agapostemon radiatus* ♀, *Chloralictus pruinosus* ♀, *sc*, *sparsus* ♂ ♀, *sc*, *fq*, *versatus* ♀, *Evyllaenus arcuatus* ♀, *pectoralis* ♀, *sc*, *Halictus lerouxii* ♀, *sc*, *parallelus* ♀, *Oxystoglossa confusa* ♀; *Andren.*: *Opandrena personata* ♀, *Trachandrena crataegi* ♀, *sc*; *Panurg.*: *Heterosarus* ♀, *sc*.

Other Hymenoptera (30)—*Crabron.*: *Pseudocrabro*, *Solenius*, *Xestocrabro 6-maculatus*, *texanus*; *Oxybel.*: *Notoglossa americana*, *frontalis*, *Oxybelus packardii*; *Philanth.*: *Cerceris clypeata*, *compar*; *Sphec.*: *Chalybion*, *Sceliphron*; *Pompil.*: *Lophopompilus philadelphicus*, *Planiceps niger*, *Poecilopompilus navus*, *Psammochares tenebrosus*; *Vesp.*: *Polistes variatus*; *Eumen.*: *Eumenes fraternus*, *Leionotus foraminatus*, *ziziae*; *Thynn.*: *Methoca*; *Chrysid.*: *Hedychrum violaceum*, *wiltii*, *Holopyga*, *Tetrachrysis caeruleans*; *Figit.*: *Psilodora impatiens*, *Xyalosema*; *Chalcid.*: *Chalcis*, *Perilampus cyaneus*, *fulvicornis*; *Ichneumon.*: *Cryptus exulans*.

Diptera (59)—*Chironom.*: *Ceratopogon fuscus* fq, *websteri*; *Mycetophil.*: *Sciara atrata*; *Bibion.*: *Scatopse pulicaria* fq; *Stratiomy.*: *Stratiomyia meigenii*; *Bombyli.*: *Argyramoeba albofasciata*; *Empid.*: *Empis distans*; *Syrph.*: *Allograpta*, *Eristalis tenax*, *transversus*, *Mesogramma geminata*, *marginata* fq, *Orthoneura nitida*, *Paragus bicolor*, *tibialis*, *Sphaerophoria*, *Syrpita ab*, *Syrphus americanus*, *ribesii*; *Conop.*: *Oneomyia*, *Zodion fulvifrons*, *nanellum*; *Tachin.*: *Belvosia unifasciata*, *Biomyia georgiae* (Type *Masicera sordicolor* Tn.), *Cistogaster occidua*, *pallasi*, *Euphorocera claripennis*, *Exorista confinis*, *Ocyptera tenuis*, *Pachyophthalmus signatus* fq, *Paradidyma*, *Spallanzania*, *Trichopoda pennipes*, *Viviania*; *Sarcophag.*: *Helicobia heliceis* fq, *4-setosa*, *Sarcophaga cimbicis*, *hunteri*; *Musc.*: *Graphomyia*, *Morellia* fq, *Myospila*, *Phormia regina*, *Pseudopyrellia*; *Anthomy.*: *Calythea*, *Limnophora* fq, *Phorbia acra*, *platura*; *Ortal.*: *Rivellia pallida*, *viridulans*; *Seps.*: *Nemopoda*, *Sepsis* fq; *Oscin.*: *Chlorops approximatinervis*, *mellea*, *proxima*, *Hippelates flavipes*, *plebejus*, *pusio*, *Oscinis coxendix*, *soror*.

Coleoptera (7)—*Hister.*: *Hister subrotundus*; *Lampyr.*: *Podabrus tomentosus*; *Cerambyc.*: *Euderces*; *Chrysomel.*: *Haltica*; *Mordell.*: *Mordella marginata* fq, *Mordellistena limbalis*; *Curculion.*: *Centrinites*.

Hemiptera (2)—*Lygae.*: Lygaeus; *Caps.*: Lygus.

Heracleum lanatum (12:459-60).—Blooms May 6-June 17; 274 visitors observed, May 8-June 17; Pol, W.

Long-tongued Bees (7)—*Megachil.*: Alcidae simplex ♂ ♀; *Ceratin.*: Ceratina ♂ ♀, se; *Ap.*: Apis se, fq; *Nomad.*: Heminomada ♀, Holonomada superba ♂, Nomada illinoensis ♀, Phor ♀; *Eucer.*: Tetralonia dilecta ♀.

Short-tongued Bees (38)—*Prosopid.*: Prosopis illinoensis ♂ ♀, pygmaea ♂ ♀, ab, saniculae ♂, sayi ♂ ♀, fq, in cop, *type*, ziziae ♂ ♀, ab; *Collet.*: Colletes aestivalis ♂, inaequalis ♀, se; *Halict.* (♀): Agapostemon radiatus se, Chloralictus pilosus se, fq, sparsus se, versatus se, fq, Evylaeus pectoralis se, fq, Halictus lerouxii, parallelus se, Oxystoglossa confusa, Seladonia; Sphecodini: Drepanium ♀, fq, Machaeris illinoensis ♀, *type*, stygia ♀, Proteraner ♂, Sphecodes arvensis ♀, heraclei ♀, *type*, Sphecodium eressonii ♀; *Andren.* (♀): Andrena carlini, erythrogastra, pruni, sayi se, Opandrena miserabilis se, fq, eressonii se, Parandrena, Ptilandrena g. maculati, Trachandrena claytoniae se, fq, crataegi, forbesii se, heraclei se, *type*, nuda se, fq, rugosa se, spiraeana.

Other Hymenoptera (67)—*Crabron.*: Clytochrysus fq, Lophocrabro, Ectemnius, Hypocrabro, Protothyreopus rufifemur, Pseudocrabro fq, Rhopalum pedicellatum, scutellatum, Solenius fq, Xestocrabro 6-maculatus, texanus; *Oxybel.*: Notoglossa americana, Oxybelus niger, 4-notatus fq; *Sphec.*: Chalybion, Chlorion, Seeliphron, Spheg vulgaris; *Larr.*: Notogonidea, Tachysphex acutus; *Pompil.*: Anoplius illinoensis, virginensis, Ceropales fraterna, Episyron, Planiceps feralis, Pompiloides marginatus, subviolaceus, Psammochares scelestus, tenebrosus; *Vesp.*: Polistes pallipes fq, variatus fq, rubiginosus, Vespula germanica, maculata; *Eumen.*: Ancistrocerus tigris, unifasciatus, Eumenes fraternus, Leionotus anormis, clypeatus, foraminatus, illinoensis, megaera, serophulariae, Symmorphus debilis, walshianus; *Tiphi.*: Tiphia clypeata, inornata, vulgaris ab, *type*; *Chrysid.*: Holopyga; *Figit.*: Eucoida, Eucoidia; *Chalcid.*: Haltichella ornata, Elasmus, Perilampus fulvicornis; *Evani.*: Foenus tarsatorius; *Ichneumon.*: Ichneumon flavizonatus, jucundus, funestus, longulus, Lampronota americana, Phygadeuon vulgaris, Porizon conotracheli, Trogus vulpinus, Tryphon affinis, Metopius terminalis; *Bracon.*: Microbracon; *Tenthredin.*: Dolerus aprilis.

Diptera (137)—*Myctophil.*: Seiara atrata fq, inconstans; *Bibion.*: Bibio albipennis, Dilophus obesulus fq, Scatopse pulicaria; *Taban.*: Chrysops indus, striatus; *Stratiomy.*: Nemotelus fq, Odon-

tomyia cineta, Stratiomyia apicula, discalis, meigenii fq, quaternaria; *Bombyli.*: Anthrax alternata, Bombylius atriceps, Toxophora; *Empid.*: Empis distans fq, levicula fq, *type*, Pachymeria, Rhamphomyia fumosa, mutabilis fq, priapulab, rava, Tachydromia; *Syrph.*: Allograpta, Ceria, Chilosia petulca, Chrysogaster nigripes, Criorhina decora, umbratilis, Didea, Eristalis bastardi, dimidiatus fq, transversus fq, Helophilus similis, Mallota cimbiciformis fq, posticata, Mesogramma marginata, Myiolepta nigra, strigilata, Orthoneura nitida, pictipennis, Paragus bicolor, Pipiza femoralis, festiva, nigribarba, pulchella, Pterallastes, Sphaerophoria, Syrta, Syrphus americanus, ribesii, torvus, Temnostoma trifasciata *type*, Tropidia quadrata, Xylota bicolor; *Conop.*: Oncomyia, Zodion fulvifrons, nanellum; *Tachin.*: Alohpora aeneoventris, fumosa, Archytas analis, aterrima, Belvosia unifasciata, Blepharipeza, Brachycoma sarcophagina *type*, Chaetogaedia analis, Cistogaster occidua, pallasi, Cryptomeigenia, Euphorocera claripennis, Gonia capitata, Gymnochaeta, Gymnosoma, Hilarella, Hyalomyses, Hyalurgus, Leucostoma atra, neomexicana, nigricornis, Pachyophthalmus signatus fq, Peleteria, Phoranthia humeralis *type*, pruinosa *type*, purpurascens, robertsonii *type*, Polidea americana *type*, Senotainia trilineata fq, Sturmia fraudulenta fq, phyciodis, Tachina robusta, Trichopoda pennipes; *Sarcophag.*: Cynomyia, Helicobia helicis fq, 4-setosa, Sarcophaga aldrichi, asidua, bullata, cimbicis, dux sarracenioides, impar, utilis; *Musc.*: Graphomyia fq, Lucilia caesar ab, sericata fq, sylvanum, Morellia fq, Phormia regina fq, Pseudopyrellia ab; *Anthomy.*: Anthomyiella fq, Calythea, Limnophora, Phorbia acra fq, platura fq; *Seps.*: Sepsis; *Oscin.*: Chlorops mellea, proxima ab, Hippelates flavipes, plebejus, pusio fq, Oscinis coxendix, trigramma, Siphonella cinerea, inquilina, *Agromyz.*: Agromyza latipes, Lobioptra.

Lepidoptera (7)—*Nymphal.*: Basilarchia archippus, Cereyonis, Charidryas, Phyciodes; *Papilion.*: Iphiolides, Laertias; *Hesperi.*: Polites.

Coleoptera (16)—*Dermest.*: Anthrenus castaneae, Cryptorhopalum haemorrhoidale, Orphilus; *Lampyr.*: Telephorus flavipes; *Malach.*: Anthocomus; *Scarabae.*: Euphoria sepulchralis, Trichius affinis, piger; *Cerambyc.*: Euderces; *Chrysomel.*: Diabrotica 12-punctata, vittata; *Mordell.*: Mordella marginata, Mordellistena biplagiata fq; *Anthic.*: Corphyra labiata; *Melo.*: Macrobasis; *Curculion.*: Centrinites..

Hemiptera (2)—*Corimelaen.*: Corimelaena pulicaria; *Caps.*: Phytocoris.

Osmorrhiza longistylis (12: 452, 459-60).—Blooms April 21–May 23; 71 visitors observed, May 4–23; Mis, W.

Long-tongued Bees (8)—*Megachil.*: *Ceratostmia* ♀, *Diceratomia* ♀; *Ceratin.*: *Zaodontomerus* ♂; *Bomb.*: *Bombus impatiens* ♀; *Ap.*: *Apis*; *Nomad.*: *Gnathias cuneatus* ♀, *Nomada parva* ♂, *sayi* ♀.

Short-tongued Bees (24)—*Prosopid.*: *Prosopis illinoensis* ♂, *pygmaea* ♂, *sayi* ♂ ♀, *fq*, *thaspis* ♂, *ziziae* ♂; *Halict.*: (♀); *Agapostemon radiatus* se, *splendens*, *Augochlora viridula*, *Chloralictus caeruleus*, *obscurus* se, *type*, *pilosus* se, *sparsus* se, *versatus* se, *Curtisapis coriacea* se, *forbesii* se, *Evyllaenus pectoralis* se, *ab*, *4-maculatus* se, *ab*, *Halictus lerouxii*, *Oxystoglossa confusa* *ab*, *pura*, *Seladonia*; *Sphecodini*: *Proteraner* ♂; *Andren.*: *Andrena geranii* ♀, *sayi* ♀.

Other Hymenoptera (4)—*Eumen.*: *Ancistrocerus tigris*, *Eumenes fraternus*; *Chrysid.*: *Holochrysis hilaris*; *Evani.*: *Foenus tarsatorius*.

Diptera (27)—*Bombyli.*: *Aldrichia*, *Bombylius major*; *Empid.*: *Empis distans* *ab*, *humilis type*, *loripedis*; *Syrph.*: *Allograpta*, *Chilosia cyanescens* *fq*, *petulca*, *Mesogramma geminata*, *marginata*, *Paragus bicolor*, *tibialis*, *Pipiza femoralis*, *Rhingia*, *Sphaerophoria*, *Sphegina campanulata type*, *rufiventris*, *Syritta* *ab*, *Syrphus ribesii*; *Conop.*: *Myepa vesiculosa*; *Tachin.*: *Gymnosoma*, *Peleteria*, *Siphona* *fq*; *Anthomy.*: *Hylemyia inornata*, *Phorbia platura*; *Psil.*: *Chyliza*; *Oscin.*: *Siphonella oscinina*.

Lepidoptera (2)—*Papilion.*: *Eurymus*; *Hesperi.*: *Thanaos martialis*.

Coleoptera (5)—*Bruch.*: *Bruchus minus*; *Mordell.*: *Mordellistena biplagiata*; *Anthic.*: *Corphyra terminalis*; *Curculion.*: *Idiostethus subcalvus*, *tubulatus*.

Hemiptera (1)—*Caps.*: *Lygus*.

Oxypolis rigidior (12: 459-60).—Blooms July 31–September 8; 157 visitors observed, August 14–September 8; Pol, W.

Long-tongued Bees (1)—*Ap.*: *Apis*.

Short-tongued Bees (6)—*Prosopid.* (♂ ♀): *Prosopis pygmaea*, *ziziae*; *Halict.*: *Chloralictus sparsus* ♀, *se*, *versatus* ♂ ♀, *se*, *Halictus lerouxii* ♀; *Sphecodini*: *Sphecodes arvensis* ♂.

Other Hymenoptera (73)—*Crabron.*: *Lindenius errans*, *Solenius*, *Xestoerabro texanus*, *trifasciatus*; *Oxybel.*: *Notoglossa americana*, *frontalis*, *Oxybelus packardii*, *4-notatus*; *Philanth.*: *Cerceris clypeata*, *compacta*; *Sphec.*: *Chalybion* *fq*, *Chlorion*, *Isodontia apicalis*, *Priononyx atrata*, *Seeliphron*; *Larr.*: *Astutus unicolor*, *Larropis*, *Lyroda*, *Tachysphex belfragei*, *Tachytes elongatus*;

Bembic.: Stizus; *Nysson.*: *Hoplisus simillimus*, *Pseudoplisus phaleratus*; *Pompil.*: *Arachnoproctonus*, *Cryptocheilus fulgifrons*, *Lophopompilus philadelphicus*, *Priocnemoides fulvicornis*, *Psammochares relativus*, *Sophropompilus*; *Vesp.*: *Polistes variatus*, *rubiginosus*; *Eumen.*: *Leionotus foraminatus*, *fundatus*, *histrionalis type*, *ziziae*; *Scoli.*: *Elis 5-cincta*, *Scolia bicincta*; *Tiphi.*: *Tiphia clypeata*, *punctata type*, *transversa*; *Myrmos.*: *Myrmosa unicolor*; *Mutill.* (♂): *Sphaerophthalma*, *Mutilla hexagona*; *Chrysid.*: *Hedychrum violaceum*, *Holopyga*, *Tetrachrysis caeruleans*, *venusta*; *Figit.*: *Aspicera*, *Cothonaspis*, *Figites impatiens* fq, *Xyalosema*; *Chalcid.*: *Eutrichosoma*, *Bruchophagus*, *Leucopsis*, *Perilampus fulvicornis*, *hyalinus*; *Ichneumon.*: *Ichneumon flavizonatus*, *Ceratosoma* ab; *Bracon.*: *Microdus simillimus*, *Agathis areolata*, *Chelonus*, *Urosigalphus*, *Apanteles crassicornis*, *Toxoneuron abdominale*, *Macrodyctium*, *Microplitis croceipes*, *gortynae*, *Monogonogastra*, *Iphiaulax*, *Opius fuscipennis*.

Diptera (53)—*Mycetophil.*: *Sciara atrata*; *Empid.*: *Parempis*; *Syrph.*: *Allograpta*, *Mesogramma geminata*, *marginata*, *polita*, *Paragus bicolor*, *Spilomyia longicornis*, *Syritta*, *Syrphus ribesii*; *Pipuncul.*: *Chalarus*; *Conop.*: *Conops brachyrrhynchus*, *Zodion nanellum*; *Tachin.*: *Alophora aeneoventris*, *Belvosia unifasciata*, *Cistogaster occidua*, *Clytiomyia*, *Epigrimyia geniculata type*, *Exorista confinis*, *pyste*, *Euphorocera claripennis*, *Gymnosoma*, *Hypostena indecisa type*, *Ocyptera dosiades*, *Pachyophthalmus signatus*, *Phorantha pupurascens*, *Senotainia rubriventris*, *trilineata*, *Spallanzania*, *Trichopoda pennipes*; *Sarcophag.*: *Helicobia helicis*, *4-setosa*, *Sarcophaga assidua*, *cimbicis*; *Musc.*: *Lucilia sericata*, *sylvarum*, *Morellia*, *Musca*, *Pseudopyrellia*; *Anthomy.*: *Anthomyiella*, *Limnophora*, *Lispa consanguinea*, *Phorbia platura*; *Trypet.*: *Euaresta bella*; *Ephydr.*: *Ochthera*; *Oscin.*: *Hippelates flavipes* fq, *plebejus*, *pusio*, *Oscinis coxendix*, *trigramma*, *Siphonella cinerea*; *Agromyz.*: *Agromyza latipes*, *Leucopis*.

Lepidoptera (3)—*Nymphal.*: *Basilarchia archippus*; *Lycaen.*: *Eupsyche*; *Hesper.*: *Limochores taumas*.

Coleoptera (16)—*Coccinell.*: *Coccinella sanguinea*, *Hippodamea convergens*; *Latridi.*: *Corticaria*; *Lampyr.*: *Chauliognathus pennsylvanicus*; *Scarabae.*: *Euphoria sepulchralis*; *Chrysomel.*: *Diabrotica atripennis*, *12-punctata*, *Luperaltica*; *Bruch.*: *Bruchus cruentatus*; *Mordell.*: *Mordella melaena*, *Mordellistena limbalis*; *Melo.*: *Epicauta cinerea*, *pennsylvanica*, *Pyrota germari*; *Rhipiphor.*: *Rhipiphorus limbatus*; *Curculion.*: *Centrinus picumnus*.

Hemiptera (4)—*Lygae.*: *Oncopeltus*; *Caps.*: *Lygus*, *Plagiognathus*; *Acanthi.*: *Triphleps*.

Neuroptera (1)—*Chrysop.*: *Chrysopa*.

Aug. 20, 1909, insects taken as they came showed the following 30 species and 85 individuals:

Short-tongued Bees (1:3)—*Halict.*: *Chloralictus versatus* 3.

Other Hymenoptera (15:30)—*Crabron.*: *Solenius* 1, *Xestocrabro texanus* 3; *Oxybel.*: *Notoglossa frontalis* 1; *Sphec.*: *Chalybion* 15, *Priononyx atrata* 1, *Seeliphron* 4; *Larr.*: *Lyroda* 1; *Nysson.*: *Hoplisis simillimus* 1, *Pseudoplisus phaleratus* 2; *Pompil.*: *Lophopompilus philadelphicus* 2, *Priocnemoides fulvicornis* 2; *Vesp.*: *Polistes rubiginosus* 1, *variatus* 2; *Tiphi.*: *Tiphia clypeata* 1; *Chrysid.* *Tetrachrysis caeruleans* 1.

Diptera (14:44)—*Syrph.*: *Spilomyia longicornis* 1, *Syritta* 5, *Syrphus ribesii* 1; *Tachin.*: *Alophora aeneoventris* 1, *Belvosia unifasciata* 9, *Exorista pyste* 1, *Ocyptera dosiades* 1, *Pachyophthalmus signatus* 4, *Spallanzania* 2; *Sarcophag.*: *Helicobia heliceis* 7, *Sarcophaga assidua* 4, *cimbicis* 5; *Musc.*: *Morellia* 2; *Anthomy.*: *Anthomyiella* 1.

Pastinaca sativa (int, 12:459-60).—Blooms May 15–August 10; 298 visitors observed, June 2–July 9; Pol, Y.

Long-tongued Bees (7)—*Megachil.*: *Megachile petulans* ♀; *Ceratin.*: *Ceratina* ♀, se; *Bomb.*: *Bombias separatus* ♂, *Bombus americanorum* ♀ ♂, *impatiens* ♀; *Ap.*: *Apis*; *Anthophor.*: *Anthemossa* ♂.

Short-tongued Bees (25)—*Prosopid.*: *Prosopis illinoensis* ♂ ♀, *type*, *pygmaea* ♀, *sayi* ♂ ♀, *ziziae* ♂ ♀; *Collet.*: *Colletes brevicornis* ♂, *type*, *eulophi* ♂ ♀; *Halict.*: *Chloralictus sparsus* ♂ ♀, se, ab, *type*, *versatus* ♂ ♀, se, *Curtisapis forbesii* ♂, *Evylaeus arcuatus* ♀, *pectoralis* ♀, se, *Halictus parallelus* ♀, *Oxystoglossa confusa* ♀, *Seladonia* ♂; *Sphecodini*: *Sphecodes arvensis* ♂ ♀, ab, *elematidis* ♂, *Sphecodium cressonii* ♂ ♀; *Andren.*: *Andrena platyparia* ♂, *pruni* ♀, se, *Opandrena cressonii* ♀, *personata* ♀, se, *type*, *serotina* ♀, *type*, *Trachandrena crataegi* ♀, *hippotes* ♀, *nuda* ♀, se.

Other Hymenoptera (94)—*Crabron.*: *Clytochrysus*, *Ectemnius*, *Hypocrabro*, *Protothyreopus rufifemur*, *Pseudoerabro*, *Solenius* fq, *Xestocrabro 6-maculatus*, *trifasciatus*; *Oxybel.*: *Notoglossa americana*, *emarginata*, *frontalis type*, *inornata*, *Oxybelus 4-notatus*; *Trypoxyl.*: *Trypoxylon clavatum*; *Philanth.*: *Cereeris clypeata*, *compacta*, *fumipennis*, *kennicottii*, *Philanthus punetatus*; *Sphec.*: *Ammobia ichneumonea*, *pennsylvanica*, *Chalybion*, *Isodontia apicalis*, *Seeliphron*, *Sphex nigricans*, *vulgaris*; *Larr.*: *Astatus unicolor*, *Lyroda*; *Nysson.*: *Pseudoplisus phaleratus*; *Pompil.*: *Anoplius illinoensis*, *virginiensis*, *Arachnoproctonus*, *Ceropales fraterna*.

Lophopompilus atrox, philadelphicus, Poecilopompilus navus, Pompiloides americanus fq, divisus, marginatus, subviolaceus, Psammochares tenebrosus; *Vesp.*: Polistes pallipes, Vespula maculata; *Eumen.*: Ancistrocerus campestris, tigris, unifasciatus, Eumenes fraternus, Leonotus foraminatus fq, fulvipes, scrophulariae, ziziae, Monohia, Symmorphus debilis, walshianus, Zethus; *Scoli.*: Elis 5-cincta; *Tiphi.*: Tiphia vulgaris; *Mutill.* (♂): Sphaerophthalma, Mutilla hexagona; *Chrysid.*: Hedychrom violaceum, Holopyga fq, Tetrachrysis nortonii; *Figit.*: Aspicerca, Psilodora impatiens; *Chalcid.*: Leucospis, Perilampus triangularis, cyaneus, platygaster, Pachyneuron; *Evani.*: Foenus incertus, tarsatorius, Hyptia; *Ichneumon.*: Agrothereutes limatus, Ichneumon flavizonatus, jucundus, succinctus, Colpognathus, Cryptus rufoannulatus, Eiphosoma, Glypta simplicipes, Hemiteles, Porizon conotracheli, Proclitus, Trogus, Metopius terminalis; *Bracon.*: Orgilus, Euphorus; *Cardiochiles*, Habrobracon, Microplitis gortynae, Iphiaulax; *Tenthredin.*: Hylotoma humeralis; *Scelion.*: Teleas.

Diptera (114)—*Mycetophil.*: Sciara atrata, vulgaris; *Bibion.*: Scatopse pulicaria; *Taban.*: Chrysops striatus, Theriopteles; *Stratiomy.*: Allognosta fuscitarsis, Stratiomyia meigenii; *Bombyli.*: Anthrax sinuosa, Argyramoeba oedipus; *Scenopin.*: Scenopinus; *Empid.*: Empis distans, Parempis; *Syrph.*: Allograpta fq, Baccha aurinota, fuscipennis, Didea, Eristalis aeneus, dimidiatus, flavipes, transversus, Helophilus latifrons, similis, Mallota cimbiciformis, Mesogramma geminata, marginata fq, Orthoneura nitida in cop, Paragus bicolor, tibialis, Pipiza festiva, nigribarba, pulchella, Platychirus hyperboreus, quadratus, Sphaerophoria, Syrirta fq, Syrphus arcuatus, ribesii, Tropidia quadrata; *Conop.*: Conops brachyrrhynchus, Myopa vesiculosa, Zodion nanellum; *Tachin.*: Araba, Belvosia unifasciata fq, Biomyia, Blepharipeza, Brachycoma intermedia type, Ceratomyiella, Chaetoplagia, Cistogaster occidua, Clytiomyia, Cryptomeigenia, Distichona varia, Ennyomma globosa, Eumyotheria illinoensis type, Euphorocera claripennis, Exorista confinis fq, nigripalpis, Frontina aletiae, frenchii, Gymnosoma, Gymnoprosope clarifrons type, Linnaemyia fq, Macquartia, Ocyptera tenuis, Pachyophthalmus signatus, floridensis, Phoranthia purpurascens, Senotainia rubriventris, trilineata, Spallanzania, Sturmia inquinata, Tachina mella, rustica, Trichopoda pennipes fq, Trichophora, Winthemia fq, Xanthomelana; *Sarcophag.*: Helicobia helieis fq, 4-setosa, Sarcophaga alcedo, assidua, cimbeis, haemorrhoidalis, hunteri, sinuata; *Musc.*: Calliphora erythrocephala, Compsomyia fq, Graphomyia, Lucilia caesar, Morellia fq, Musca, Myospila, Phormia regina, Protocalliphora, Pseudopyrellia; *Anthomy.*: Calythea,

Hyetodosia, Limmophora, Ophyra fq, Phorbia aera fq; *Ortal.*: Camptoneura, Rivellia viridulans, Scoptera; *Sapromyz.*: Sapromyza vulgaris; *Seps.*: Sepsis; *Oscin.*: Chlorops assimilis, mellea, proxima, Hippelates flavipes, pusio, Meromyza, Ossinis soror; *Agromyz.*: Lobioptera.

Lepidoptera (9)—*Nymphal.*: Anosia, Basilarchia astyanax, Hypatus; *Lycaen.*: Chrysophanus, Cyaniris, Thecla calanus; *Hesper.*: Limchores taumas; *Sesi.*: Sesia pietipes; *Pyromorph.*: Harrisina.

Coleoptera (42)—*Coccinell.*: Coccinella 9-notata, sanguinea, Hippodamea parenthesis, convergens, Megilla; *Dermest.*: Anthrenus castaneae, Attagenus fq, Cryptorhopalum haemorrhoidale; *Nitidul.*: Carpophilus; *Elater.*: Agriotes; *Buprest.*: Agrilus difficilis, egenus; *Lampyr.*: Calopteron, Chauliognathus marginatus, Photinus, Podabrus rugulosus, tomentosus, Pyraetomena, Telephorus flavipes; *Malach.*: Anthocomus, Attalus; *Scarabac.*: Euphoria fulgida, sepulchralis, Trichius piger; *Cerambyc.*: Aemaeps directa, Callimoxys fuseipennis, sanguinicollis, Euderees, Typocerus sinuatus, velutinus; *Chrysomel.*: Anomoea, Diabrotica vittata, Pachybrachys, Trirhabda; *Melandry.*: Nothus; *Mordell.*: Mordella marginata, melaena, 8-punctata, Mordellistena ornata, Pentaria; *Melo.*: Epicauta cinerea, Macrobasis.

Hemiptera (6)—*Corimelaen.*: Corimelaena pulicaria fq; *Beryt.*: Corizus; *Lygae.*: Lygaeus; *Caps.*: Lygus, Phytocoris, Plagiognathus.

Neuroptera (1)—*Chrysop.*: Chrysopa.

Polytaenia nuttallii (12: 459-60).—Blooms May 3-June 17; 75 visitors observed, May 9-June 8; Mis, Y.

Long-tongued Bees (4)—*Megachil.*: Coelioxys 8-dentata ♂; *Bomb.*: Bombus americanorum ♀; *Ap.*: Apis; *Nomal.*: Nomada illinoensis ♀.

Short-tongued Bees (20)—*Prosopid.* (♂ ♀): Prosopis pygmaea in cop, ziziae ab; *Collet.*: Colletes aestivalis ♂ ♀, inaequalis ♀, se; *Halict* (♀): Augochlora fervida, viridula, Chloralictus pilosus se, pruinosis se, sparsus se, tegularis se, versatus se, Evelyaeus pectoralis, Odontalictus se, Oxystoglossa similis se, Seladonia se; *Andren.*: Andrena nasonii ♀, se, Opandrena cressonii ♂ ♀, se, ziziae ♂ ♀, se, Trachandrena crataegi ♀, se, forbesii ♀.

Other Hymenoptera (20)—*Crabron.*: Ectemnius, Hypocraebro, Pseudocraebro, Solenius; *Sphac.*: Seeliphron; *Vesp.*: Polistes palipes, variatus; *Eumen.*: Ancistrocerus campestris, Eumenes fraternus, Leionotus anormis, clypeatus, foraminatus, histrionalis,

illinoensis, scrophulariae, vagus, ziziae, *Symmorphus walshianus*; *Tiphi.*: *Tiphia inornata*; *Chalcid.*: *Eurytoma*.

Diptera (17)—*Stratiomy.*: *Allognosta obscuriventris*, *Nemotelus*, *Stratiomyia apicula*; *Syrph.*: *Allograpta*, *Mesogramma geminata*, *marginata*, *Paragus bicolor*, *tibialis*, *Sphaerophoria*, *Tropidia mamillata*; *Conop.*: *Oncomyia*, *Zodion fulvifrons*; *Tachin.*: *Cistogaster occidua*, *pallasi*, *Leucostoma atra*, *nigricornis*, *Linnaemyia*, *Phoranthia purpurascens*; *Musc.*: *Pseudopyrellia*; *Anthomy.*: *Phorbia acra ab*, *platura*; *Ortal.*: *Rivellia pallida*; *Oscin.*: *Chlorops proxima*, *Hippelates flavipes*; *Agromyz.*: *Leucopis*, *Lobioptera*.

Coleoptera (1)—*Curculion.*: *Centrinites*.

Hemiptera (3)—*Beryt.*: *Corizus*; *Pentatom.*: *Euschistus ictericus*; *Caps.*: *Lygus*.

May 20, 25, 26, 1910, insects taken as they came to the flowers showed the following 37 species and 294 individuals:

Long-tongued Bees (2:5)—*Bomb.*: *Bombus americanorum* 1; *Ap.* *Apis* 4.

Short-tongued Bees (12:126)—*Prosopid.*: *Prosopis ziziae* 3; *Collet.*: *Colletes aestivalis* 18; *Halict.*: *Augochlora fervida* 4, *viridula* 2, *Chloralictus versatus* 18, *Evyllaes pectoralis* 1, *Oxystoglossa similis* 9, *Seladonia* 5; *Andren.*: *Opanidrena cressonii* 9, *ziziae* 45, *Trachandrena crataegi* 11, *forbesii* 1.

Other Hymenoptera (9:32)—*Crabron.*: *Hypocrabro* 1, *Solenius* 2; *Vesp.*: *Polistes variatus* 15; *Eumen.*: *Eumenes fraternus* 1, *Leionotus foraminatus* 4, *histrionalis* 4, *illinoensis* 1, *ziziae* 2, *Symmorphus walshianus* 2.

Diptera (12:127)—*Stratiomy.*: *Nemotelus* 3, *Stratiomyia apicula* 2; *Syrph.*: *Mesogramma geminata* 1, *marginata* 11, *Paragus bicolor* 1, *tibialis* 1; *Conop.*: *Oncomyia* 1, *Zodion fulvifrons* 1; *Musc.*: *Pseudopyrellia* 2; *Anthomy.*: *Phorbia acra* 99, *platura* 4; *Agromyz.*: *Lobioptera* 1.

Hemiptera (2:4)—*Beryt.* *Corizus* 3; *Pentatom.*: *Euschistus ictericus* 1.

Sanicula canadensis.—Blooms May 30–July 20; four visitors observed, June 15, 17; Mis, W.

Short-tongued Bees (3:3)—*Halict.* (♀): *Chloralictus versatus* 1, *Evyllaes 4-maculatus* 1; *Prosopid.*: *Prosopis saniculae* ♀, 1.

Diptera (1:2)—*Syrph.*: *Mesogramma geminata* 2.

Sanicula marilandica.—Blooms May 6–June 5; 31 visitors observed, May 14, 16, 25; Mis, Y.

Short-tongued Bees (14)—*Halict.* (♀): *Augochlora viridula*, *Chloralictus sparsus*, *tegularis*, *Curtisapis coriacea*, *Evyllaes foxii*,

Oxystoglossa confusa; *Prosopid.*: *Prosopis pygmaea* ♂, *saniculae* ♂, *type*, *sayi* ♂, *ziziae* ♀; *Andren.*: *Opandrena cressonii* ♀, *se*, *personata* ♂, *ziziae* ♀, *se*, *Trachandrena rugosa* ♀, *se*.

Other Hymenoptera (3)—*Eumen.*: *Ancistrocerus tigris* Symmorphus debilis, *Bracon.*: *Bracon ashmeadi type*.

Diptera (12)—*Mycetophil.*: *Sciara atrata*; *Empid.*: *Brachystoma robertsonii type*, *Empis distans*, *nuda*; *Syrph.*: *Mesogramma geminata*, *marginata*; *Tachin.*: *Siphona*; *Musc.*: *Myospila*; *Anthomy.*: *Homalomyia prostrata*; *Sapromyz.*: *Sapromyza longipennis*; *Heteroneur.*: *Clusia*; *Oscin.*: *Siphonella oscinina*.

Hemiptera (2)—*Corimelaen.*: *Corimelaena pulicaria*; *Caps.*: *Lopidea*.

Sium cicutaefolium (12: 459-60).—Blooms July 19-September 7; 220 visitors observed, July 20-September 1; Pol, W.

Long-tongued Bees (4)—*Bomb.* (♂, e): *Bombus americanorum*, *impatiens*; *Ap.*: *Apis*; *Eucer.*: *Melissodes agilis* ♂.

Short-tongued Bees (17)—*Prosopid.*: *Prosopis pygmaea* ♂, *sayi* ♀, *ziziae* ♀; *Collet.*: *Colletes americanus* ♂, *eulophi* ♂; *Halict.*: *Chloralictus illinoensis* ♂ ♀, *sparsus* ♀, *versatus* ♂ ♀, *se*, *zephyrus* ♂ ♀, *Curtisapis coriacea* ♂ ♀, *Evyllaenus arcuatus* ♂, *truncatus* ♀, *Halictus lerouxii* ♂, *Odontalictus* ♀, *Seladonia* ♀; *Sphecodini*: *Maehaeris stygia* ♂ ♀, *fq, type*, *Sphecodes arvensis* ♂.

Other Hymenoptera (97)—*Crabron.*: *Clytochrysus fq*, *Ectemnius fq*, *Lindenius errans fq*, *Solenius*, *Xestoerabro 6-maculatus*, *trifasciatus*; *Oxybel.*: *Notoglossa americana fq*, *emarginata*, *frontalis fq*, *Oxybelus niger type*, *packardii*, *4-notatus fq*; *Trypoxyl.*: *Trypoxylon clavatum*; *Philanth.*: *Cerceris bicornuta*, *clypeata*, *echo*, *finitima*, *kennicottii*, *prominens*, *Philanthus punctatus*; *Sphec.*: *Chalybion*, *Chlorion*, *Isodontia apicalis*, *Priononyx thomae*, *Seeliphron*, *Sphex gracilis*, *vulgaris*; *Larr.*: *Larropsis*, *Lyroda*, *Notogonidea fq*, *Tachysphex terminatus*, *Tachytes elongatus*; *Bembic.*: *Megastizus*; *Nysson.*: *Hoplisoides*, *Nysson plagiatus*, *Zanysson plesia*, *Pseudoplisus phaleratus*; *Pompil.*: *Ageniella accepta*, *longula*, *Ceropales fraterna*, *Episyron*, *Lophopompilus atrox*, *philadelphicus*, *Pompiloides marginatus*, *subviolaceus*, *Psammochares relativus*, *tenebrosus*; *Vesp.*: *Polistes pallipes*, *variatus*, *Vespula germanica*; *Eumen.*: *Ancistrocerus campestris*, *tigris*, *Eumenes fraternus*, *Leionotus foraminatus*, *serophulariae*, *ziziae*, *Monobia*; *Scoli.*: *Elis interrupta*, *5-cincta*, *Scolia bicincta*; *Tiphi.*: *Tiphia punctata*; *Bethyl.*: *Goniozus*; *Thynn.*: *Methoca*; *Myrmos.*: *Myrmosa parvula type*; *Mutill.*: *Sphaerophthalma* ♂; *Chrysid.*: *Holochrysis verticalis*, *Holopyga*, *Tetrachrysis caeruleans*; *Figit.*: *Eucoila mel-*

lipes fq, Eucoilidia, Figites impatiens, Psilodora erythropus, impatiens, Trirhoptrasema, Xyalosema; *Chalcid.*: Chalcis, Haltichella ornata, xanticles, Smiera debilis; Elasmus, Bruchophagus, Eurytoma, Leucospis, Perilampus cyaneus, Eutelus, Syntomopus; *Ichneumon.*: Agrothereutes mundus, Ichneumon flavizonatus, Cremastus retiniae, Cryptus persimilis, Limneria eurycreontis; *Bracon.*: Chelonus; Apanteles illinoensis, terminalis, Microplitis ceratoniae, Iphiaulax.

Diptera (74)—*Mycetophil.*: Sciara atrata; *Taban.*: Chrysops striatus; *Stratiomy.*: Stratiomyia meigenii; *Bombyli.*: Anthrax alternata, Exoprosopa fasciata, fascipennis, Sparnopolius, Toxophora; *Empid.*: Parempis; *Syrph.*: Allograpta, Eristalis aeneus, tenax, Mesogramma geminata, marginata, polita, Orthoneura nitida, Paragus tibialis, Pipiza pulchella, Platychirus quadratus, Syritta, Syrphus ribesii, Tropidia albistylum, quadrata; *Tachin.*: Belvosia unifasciata, Chaetogaedia analis, Clytiomyia, Distichona varia, Enyomma globosa, Euphorocera claripennis, Frontina aletiae, Gymnosoma, Hypostena variabilis, Leucostoma atra, Linnaemyia, Pachyophthalmus signatus, floridensis, Panzeria fq, Phasioclista, Phoranthia purpurascens fq, Senotainia rubriventris, trilineata fq, Spallanzania, Sturmia distincta, Trichopoda pennipes; *Sarcophag.*: Helicobia helices, 4-setosa, Sarcophaga assidua fq, haemorrhoidalis; *Musc.*: Compsomyia, Graphomyia, Lucilia sericata, Morcellia, Musca, Phormia regina, Protocalliphora, Pseudopyrellia, Stomoxyz; *Anthomy.*: Calythea, Coenosia fuscopunctata, Homalomyia prostrata, Limnophora, Ophyra, Phorbia acra; *Ortal.*: Euxesta; *Trypet.*: Plagiotoma, *Seps.*: Themira; *Ephydr.*: Ochthera, predaceous; *Oscin.*: Chlorops proxima, Hippelates flavipes, pusio, Meromyza, Siphonella cinerea, *Agromyz.*: Agromyza latipes.

Lepidoptera (5)—*Nymphal.*: Anosia, Hypatus; *Lycaen.*: Cyaniris, Eupsyche; *Papilion.*: Pieris.

Coleoptera (1)—*Coccinell.*: Coccinella sanguinea, Megilla; *Dermest.*: Attagenus; *Lampyr.*: Chauliognathus pennsylvanicus, Ditemnus, Photinus; *Malach.*: Collops; *Scarabae.*: Euphoria sepulchralis; *Chrysomel.*: Diabrotica 12-punctata, longicornis, vittata; *Bruch.*: Bruchus discoideus, hibisci, obtectus; *Mordell.*: Mordella marginata, melaena, 8-punctata; *Melo.*: Epicauta pennsylvanica; *Curculion.*: Centrinus picumnus.

Hemiptera (4)—*Corimelaen.*: Corimelaena pulicaria; *Lygae.*: Lygaeus; *Caps.*: Lopidea fq; *Acanthi.*: Triphleps.

Taenidia integerrima (12:459-60).—Blooms April 27-June 14; 113 visitors observed, May 10-June 3; Mis, Y.

Long-tongued Bees (14)—*Megachil.*: *Aleidamea simplex* ♀, *Ceratostmia* ♀; *Ceratin.*: *Ceratina* ♀, *Zaodontomerus* ♂; *Bomb.*: *Bombias separatus* ♀; *Ap.*: *Apis*; *Nomad.*: *Centrias americanus* ♂ ♀, *Gnathias cuneatus* ♀, *ovatus* ♀, *Holonomada affabilis* ♀, *Nomada cressonii* ♂, *denticulata* ♀, *sayi* ♀, *Xanthidium luteolum* ♀.

Short-tongued Bees (33)—*Prosopid.*: *Prosopis illinoensis* ♂ ♀, *pygmaea* ♂ ♀, *ab, saniculae* ♀, *sayi* ♀, *ab, ziziae* ♂ ♀; *Collet.*: *Colletes aestivalis* ♂; *Halict.* (♀): *Augochlora fervida*, *Chloralictus nymphaearum*, *sparsus* sc, fq, *tegularis*, *versatus* sc, *zephyrus*, *Evylaeus foxii* sc, *pectoralis*, 4-maculatus sc, *Odontalictus* fq, *Oxytroglossa confusa*, *pura*, *similis* sc, *ab, Seladonia* fq; *Sphecodini*: *Machaeris stygia* ♀, *Proteraner* ♂, *Sphecodes arvensis* ♀, *Sphecodium pimpinellae* ♀, *type*; *Andren.*: *Andrena nasonii* ♂ ♀, sc, *ab, Opan-drena cressonii* ♂ ♀, sc, *personata* ♂ ♀, sc, fq, *serotina* ♂ ♀, sc, *ziziae* ♀, sc, *ab, Trachandrena claytoniae* ♂ ♀, sc, *crataegi* ♂ ♀, sc, *heraclei* ♀, *nuda* ♀.

Other Hymenoptera (21)—*Crabron.*: *Clytochrysus*, *Solenius*, *Xestocrabro trifasciatus*; *Sphec.*: *Chalybion*, *Sceliphron*, *Sphex vul-garis*; *Pompil.*: *Anoplius illinoensis*; *Eumen.*: *Ancistrocerus tigris*, *Eumenes fraternus*, *Leionotus anormis*, *clypeatus*, *foraminatus*, *his-trionalis*, *illinoensis*, *serophulariae*, *Symmorphus debilis*; *Tiphi.*: *Tiphia clypeata*; *Chrysid.*: *Chrysis intricata*; *Evani.*: *Foenus incertus*; *Ichneumon.*: *Angitia*, *Pharsalia*.

Diptera (34)—*Stratiomy.*: *Nemotelus*; *Bombyli.*: *Anthrax sinu-osa* f, *Toxophora*; *Empid.*: *Empis levicula*, *Parempis*; *Syrph.*: *Baccha fuseipennis*, *Chilosia petulea*, *Mesogramma geminata*, *marginata*, *Orthonera nitida*, *Sphaerophoria*, *Syritta* fq, *Syrphus americanus*, *ribesii*; *Conop.*: *Oncomyia*, *Zodion fulvifrons*; *Tachin.*: *Cistogaster oecidua*, *Leucostoma nigricornis*, *Linnaemyia*, *Ocyptera lata*, *tenuis*, *Peleteria*, *Trichophora*; *Sarcophag.*: *Helicobia heliceis*, *Musc.*: *Lucilia sericata*, *sylvarum*; *Anthomy.*: *Coenosia an-tica*; *Ortal.*: *Rivellia pallida*; *Sapromyz.*: *Sapromyza vulgaris*; *Seps.*: *Sepsis*; *Oscin.*: *Chlorops assimilis*, *mellea*, *Elachiptera flavida* fq, *Hippelates plebejus*.

Lepidoptera (1)—*Nymphal.*: *Charidryas*.

Coleoptera (9)—*Hister.*: *Hister subrotundus*; *Malach.*: *Antho-comus*; *Chrysomel.*: *Babia*; *Bruch.*: *Bruchus bivulneratus*, *hibissi*; *Mordell.*: *Mordella marginata*, *Mordellistena aspersa*; *Curculion.*: *Centrinites*, *Limnobaris*.

Hemiptera (1)—*Corimelaen.*: *Corimelaena lateralis*.

Thaspium aureum atropurpurem (12:454).—Blooms May 9-July 1; one visitor observed, June 9; Mis, R.

Diptera.—*Empid.*: *Empis loripedis*.

Thaspium aureum trifoliatum (12: 459-60).—Blooms May 13-July 18; 60 visitors observed, June 5-17; Mis, Y.

Long-tongued Bees (4)—*Megachil.*: Trypetini: Neotrypetes truncatus ♂, Coelioxyni: Coelioxys sayi ♂; *Nomad.*: Nomada denticulata ♀, sayi ♀.

Short-tongued Bees (21)—*Prosopid.*: Prosopis crataegi ♂, illinoensis ♂ ♀, pygmaea ♂ ♀, saniculae ♂ ♀, sayi ♂ ♀, ab, thaspia ♀, *type*, ziziae ♂ ♀, fq; *Collet.*: Colletes eulophi ♂; *Halict.* (♀): Augochlora viridula sc, Chloralictus sparsus sc, tegularis sc, Erylaeus pectoralis sc, Halictus lerouxii, Oxystoglossa pura, similis sc; Sphecodini: Proteraner ♂; *Andren.*: Andrena carlini ♀, Opandrena cressonii ♀, sc, personata ♂, ziziae ♀, se, ab; *Panurg.*: Heterosarus ♀.

Other Hymenoptera (10)—*Crabron.*: Pseudocrabro, Solenius; *Sphex.*: Sphex vulgaris; *Eumen.*: Ancistrocerus unifasciatus, Eumenes fraternus, Leionotus foraminatus, fulvipes, scrophulariae, Zendaleia acolhuus; *Evan.*: Foenus tarsatorius.

Diptera (20)—*Empid.*: Empis loripedis; *Syrph.*: Allograpta, Baccha fuscipennis, Mesogramma geminata, marginata, Paragus bicolor, tibialis, Sphaerophoria, Syritta, Volucella vesiculosa, Xanthogramma flavipes; *Conop.*: Oncomyia, Zodion nanellum; *Tachin.*: Cistogaster occidua, Exorista confinis, Leskiomima prima, Siphona; *Sarcophag.*: Helicobia helicis; *Musc.*: Phormia regina; *Seps.*: Sepsis.

Lepidoptera (1)—*Lycaen.*: Cyaniris.

Coleoptera (2)—*Cerambyc.*: Euderces; *Bruch.*: Bruchus cruentatus.

Hemiptera (2)—*Lygae.*: Lygaeus; *Caps.*: Lopidea.

Zizia aurea (12: 451-2, 459-60).—Blooms April 18-June 9; 179 visitors observed, May 3-26; Mis, Y.

Long-tongued Bees (19)—*Stelid.*: Microstelis ♂, *Megachil.*: Alcidamea simplex ♂ ♀, Osmia atriventris ♀, sc, pumila ♀; *Ceratin.*: Ceratina ♂ ♀, ab; *Bomb.* (♀): Bombias auricomus, scutellaris, separatus, Bombus americanorum, consimilis, impatiens; *Ap.*: Apis sc; *Nomad.*: Centrias americanus ♂, Gnathias ovatus ♀, Holonomada affabilis ♀, superba ♂ ♀, Nomada denticulata ♂ ♀, sayi ♂ ♀; *Eucer.*: Tetralonia dilecta ♂ ♀.

Short-tongued Bees (42)—*Prosopid.*: (♂ ♀); Prosopis pygmaea in cop, sayi, ziziae fq, *type*; *Collet.*: Colletes aestivalis ♂ ♀, ab, inaequalis ♀; *Halict.* (♀): Agapostemon radiatus, Augochlora fervida, viridula, Chloralictus albipennis sc, *type*, coreopsis, pilosus sc, fq, pruinus sc, sparsus sc, fq, tegularis sc, *type*, versatus sc, ab,

zephyrus, Curtisapis coriacea, forbesii, Evylaeus foxii, pectoralis se, 4-maculatus, Halictus lerouxii fq, parallelus, Odontalictus se, fq, Oxystoglossa confusa se, fq, pura, similis se, ab, Paralictus platyparius *type*, simplex, Seladonia se, ab; Sphecodini: Proteraner ♂ ♀, Sphecodes arvensis ♀, Sphecodium eressonii ♀, *type*; *Andren.*: Andrena illinoensis ♂, nasonii ♂, sayi ♀, Opandrena eressonii ♂ ♀, se, fq, ziziae ♂ ♀, se, ab, in cop, *type*, Trachandrena claytoniae ♀, crataegi ♂ ♀, se, fq, forbesii ♀, nuda ♀.

Other Hymenoptera (32)—*Crabron.*: Clytochrysus, Ectemnius fq, Pseudoerabro, Solenius ab, Xestoerabro 6-maculatus, texanus, trifasciatus fq; *Oxybel.*: Oxybelus 4-notatus; *Pompil.*: Anoplius illinoensis, Episyron, Psammochares tenebrosus; *Vespi.*: Polistes variatus; *Eumen.*: Ancistrocerus campestris, tigris, Eumenes fraternus, Leionotus anormis fq, clypeatus fq, foraminatus, histrionalis, illinoensis, megaera, perennis, serophulariae, vagus, ziziae ab, Symmorphus walshianus; *Tiphi.*: Tiphia clypeata; *Chrysid.*: Gonochrysis; *Figit.*: Eucoilidia; *Ichneumon.*: Cremastus epagoges, Exyston ab; *Tenthredin.*: Pseudosiobla.

Diptera (65)—*Mycetophil.*: Sciara atrata; *Bibion.*: Bibio albipennis; *Simuli.*: Simulium; *Stratiomy.*: Allognosta obscuriventris, Nemotelus; *Bombyli.*: Aldrichia; *Empid.*: Empis distans, loripedis; *Syrph.*: Chilosia petulca, Chrysogaster ontario, Eristalis dimidiatus, latifrons, Helophilus latifrons, similis, Mesogramma marginata, Orthoneura pictipennis, Paragus bicolor, tibialis, Sphaerophoria, Sphegina rufiventris, Syrretta, Syrphus ribesii, Tropidia mamillata; *Conop.*: Oncomyia, Zodion fulvifrons; *Tachin.*: Alophora aeneoventris, Apinops, Ceratomyiella conica *type*, Cistogaster oecidua ab, pallasi, Leucostoma atra *type*, Linnaemyia, Oeyptera lata, Paehyophthalmus signatus, Phoranthia magna, purpurascens, Siphona, Sturmia nigrita *type*, Tachina rustica, Trichopoda pennipes; *Sarcophag.*: Helicobia helieis, Sarcophaga sinuata; *Musc.*: Lucilia caesar, sylvarum, Morellia, Phormia regina, Pseudopyrellia; *Anthomy.*: Calythea, Coenosia lacteipennis, Hylemyia inornata ab, Phorbia acra ab, cinerella, platura; *Ortal.*: Rivellia pallida; *Seps.*: Sepsis; *Oscin.*: Chlorops assimilis, proxima, pulverea, Hippelates flavipes, plebejus, Meromyza, Oseinis soror, Siphonella cinerea; *Agromyz.*: Agromyza aeneoventris.

Lepidoptera (5)—*Nymphal.*: Phyciodes; *Lycaen.*: Everes, Heodes; *Papilion.*: Eurymus; *Noctu.*: Plusia simplex.

Coleoptera (13)—*Coccinell.*: Coccinella sanguinea, Megilla; *Erotyl.*: Languria; *Hister.*: Hister americanus; *Lampyr.*: Telephorus bilineatus, flavipes; *Scarabae.*: Onthophagus; *Chrysomel.*:

Ceratoma, Diabrotica 12-punctata, vittata; *Curculion.*: Centrinites, Centrinus picumnus; *Cerambyc.*: Aemaeps nigripennis.

Hemiptera (3)—*Pentatom.*: Euschistus ictericus; *Caps.*: Lygus, Plagiognathus.

May 10, 1910, the following 65 species and 300 individuals were taken as they came:

Long-tongued Bees (4: 8)—*Bomb.*: Bombias separatus 1, Bombus americanorum 1; *Ap.*: Apis 5, *Nomad.*: Holonomada superba 1.

Short-tongued Bees (22: 189)—*Prosopid.*: Prosopis pygmaea 5, ziziae 1; *Collet.*: Colletes aestivalis 18; *Halict.*: Agapostemon radiatus 3, Augochlora fervida 1, viridula 1, Chloralictus coreopsis 1, pilosus 6, tegularis 1, versatus 34, Erylaeus pectoralis 1, Halictus lerouxii 11, parallelus 1, Odontalictus 13, Oxystoglossa confusa 5, similis 17, Seladonia 15; *Andren.*: Opandrena cressonii 13, ziziae 27, Trachandrena claytoniae 1, crataegi 13, forbesii 1.

Other Hymenoptera (14: 27)—*Crabron.*: Clytochrysus 1, Ectemnius 1, Solenius 6, Xestocrabro texanus 1; *Vesp.*: Polistes variatus 2; *Eumen.*: Ancistrocerus tigris 2, Eumenes fraternus 1, Leionotus anormis 2, clypeatus 2, foraminatus 3, histrionalis 2, megaera 1; *Tiphi.*: Tiphia clypeata 1; *Ichneumon.*: Exyston abdominalis 2.

Diptera (21: 69)—*Bibion.*: Bibio albipennis 6; *Syrph.*: Eristalis latifrons 1, Helophilus latifrons 2, Mesogramma marginata 4, Orthoneura pictipennis 3, Paragus bicolor 1, tibialis 3, Sphaerophoria 4, Sphegina rufiventris 1, Syrtrita 1; *Conop.*: Zodion fulvifrons 4; *Tachin.*: Cistogaster occidua 5, pallasi 5, Siphona 2, Tachina rustica 1; *Sarcophag.*: Helicobia helieis 1; *Musc.*: Lucilia caesar 1, sylvarum 5, Pseudopyrellia 1; *Anthomy.*: Hylemyia inornata 1, Phorbia acra 17.

Lepidoptera (3: 6)—*Nymphal.*: Phyciodes 1; *Lycaen.*: Heodes 2; *Noctu.*: Plusia simplex 3.

Hemiptera (1: 1)—*Pentatom.*: Euschistus ictericus 1.

URTICACEAE (anemophilous)

Ulmus americana.—One visitor observed, March 26.

Long-tongued Bees (1)—*Ap.*: Apis c, ab.

Ulmus fulva.—One visitor observed, March 23, April 9.

Long-tongued Bees (1)—*Ap.*: Apis c, ab.

VALERIANACEAE

Valerianella radiata.—Blooms May 12–June 11; 24 species and 104 individuals taken on eight days, May 12–June 6; Mis, W.

Long-tongued Bees (5: 13)—*Bomb.*: *Bombus consimilis* ♀, 1; *Ceratin.*: *Ceratina* ♀, 7, *Zaodontomerus* ♂, 2; *Stelid.*: *Microstelis* ♂ ♀, 2; *Megachil.*: *Osmia pumila* ♀, 1.

Short-tongued Bees (♀, 5: 60)—*Halict.*: *Evyllaes pectoralis* se, 1, *Odontalictus* 1, *Oxystoglossa similis* 55; *Prosopid.*: *Prosopis pygmaea* 1, *ziziae* 2.

Other Hymenoptera (4: 7)—*Eumen.*: *Leionotus clypeatus* 1, *illinoensis* 3, *vagus* 1, *Zendalia acolhuus* 2.

Diptera (9: 23)—*Syrph.*: *Mesogramma marginata* 5, *Paragus tibialis* 2, *Sphaerophoria* 1; *Bombyli.*: *Toxophora* 2; *Tachin.*: *Apinops* 2, *Cistogaster occidua* 1, *pallasii* 8; *Sarcophag.*: *Helicobia heliceis* 1; *Anthomy.*: *Phorbia acra* 1.

Lepidoptera (1: 1)—*Nymphal.*: *Charidryas* 1.

VERBENACEAE

Lantana camara (cult).—Ten visitors observed, September 24-5; Mas, Y.

Birds (1)—*Trochil.*: *Trochilus*.

Long-tongued Bees (1)—*Bomb.*: *Bombus americanorum* ♂.

Lepidoptera (8)—*Nymphal.*: *Anosia*; *Papilion.*: *Eurymys* fq, *Heraclides*, *Pieris* fq, *Pontia*; *Hesperi.*: *Ancyloxypha*, *Epargyreus*; *Noctu.*: *Plusia simplex*.

Lippia lanceolata.—Blooms June 22-September 15; 56 species and 375 individuals observed, June 28-September 11; Mis, W.

Long-tongued Bees (7: 65)—*Bomb.*: *Bombus americanorum* ♀, 5; *Megachil.*: *Megachilini*: *Megachile brevis* ♂ ♀, 32; *Coelioxysini*: *Coelioxys 8-dentata* ♂ ♀, 3; *Epcol.*: *Triepeolus concolor* ♂ ♀, 16, *lunatus* ♀, 2; *Euccr.*: *Florilegus* ♂ ♀, 6, *Melissodes autumnalis* ♂, 1.

Short-tongued Bees (12: 78)—*Halict.*: *Agapostemon viridulus* ♀, 1, *Augoehlora fervida* ♀, 4, *Chloralictus nymphaearum* ♂, 1, *pilosus* ♂ ♀, 3, *tegularis* ♀, se, 12, *Evyllaes pectoralis* ♀, se, 7, *Odontalictus* ♀, 1, *Oxystoglossa confusa* ♀, 3, *pura* ♀, 1, *similis* ♂ ♀, se, 42, *Seladonia* ♀, 1; *Panurg.*: *Calliopsis andreniformis* ♂ ♀, se, 2.

Other Hymenoptera (7: 27)—*Sphex.*: *Priononyx atrata* 1, *Sphex nigricans* 11, *pietipennis* 3, *vulgaris* 5; *Bombic.*: *Bicyrtes ventralis* 4; *Eumen.*: *Leionotus anormis* 2, *clypeatus* 1.

Diptera (21: 114)—*Syrph.*: *Eristalis latifrons* 2, *Helophilus latifrons* 1, *similis* 2, *Mesogramma marginata* 13, *Orthoneura nitida* 1, *Paragus bicolor* 2, *Sphaerophoria* 3, *Syritta* 1, *Tropidia quadrata* 1; *Bombyli.*: *Exoprosopa fasciata* 7, *fascipennis* 11, *Systoschus* 7; *Conop.*: *Conops brachyrrhynchus* 4; *Tachin.*: *Apinops* 1, *Archytas analis* 19, *Ocyptera dosiades* 1, *tenuis* 7, *Pachyophthalmus floridensis* 1, *Siphoplaga anomala* 6, *Spallanzania* 19, *Trichophora* 5.

Lepidoptera (9: 91)—*Nymphal.*: Phyciodes 40; *Lycaen.*: Chrysophanus 3, Everes 3; *Papilion.*: Eurema 1, Eurymus 1; *Hesperi.*: Ancyloxypha 21, Hylephila 1, Limochores taumas 17, Polites 5.

Verbena angustifolia.—Blooms May 22–July 18; 7 visitors observed, June 21–July 11; Mas, R.

Long-tongued Bees (4)—*Ceratin.*: Ceratina ♀; *Megachil.*: Megachilini: Megachile brevis ♂ ♀, fq; Coelioxyni: Coelioxys 8-dentata ♀; *Epeol.*: Argyroselenis minimus ♀, type.

Short-tongued Bees (1)—*Halict.*: Oxystoglossa similis ♂.

Other Hymenoptera (1)—*Sphec.*: Spheg pictipennis.

Lepidoptera (1)—*Hesperi.*: Pholisora catullus.

Verbena bracteosa.—Blooms June 6–September 24; 4 visitors observed, June 30, September 18; Mis, R.

Short-tongued Bees (2, ♀)—*Halict.*: Chloralictus tegularis; *Panurg.*: Calliopsis andreniformis.

Lepidoptera (2)—*Lycaen.*: Everes; *Hesperi.*: Hesperia.

Verbena hastata (5: 67–8).—Blooms June 29–September 27; 69 visitors observed, July 12–September 18; Mas, R.

Long-tongued Bees (30)—*Ap.*: Apis ab; *Bomb.*: Bombias auricomus ♂, Bombus americanorum ♂ ♀, fq, impatiens ♂ ♀, sc, Psithyrus laboriosus ♂; *Ceratin.*: Ceratina ♀; *Megachil.*: Megachilini: Megacile brevis ♂ ♀, petulans ♀, Xanthosarus ♂; Coelioxyni (♂ ♀, fq): Coelioxys 8-dentata, sayi; *Epeol.*: Epeolus bifasciatus ♂ ♀, fq, Triepeolus concavus ♂, concolor ♂ ♀, fq, cressonii ♂ ♀, fq, helianthi ♂, lunatus ♂ ♀, pectoralis ♂, remigatus ♂, simplex ♀; *Eucer.*: Epimelissodes atripes ♀, Melissodes agilis ♂, autumnalis ♂, bimaculata ♂, coloradensis ♂, comptoides ♂, nivea ♂ ♀, similima ♂, fq, trinodis ♂, fq.

Short-tongued Bees (11)—*Halict.*: Agapostemon radiatus ♂ ♀, Augochlora fervida ♂, Chloralictus pruinosis ♂, zephyrus ♂, Curtisapis coriacea ♂, Halictus lerouxii ♂ ♀, Odontalictus ♀, Oxystoglossa confusa ♂, ab, Seladonia ♂ ♀, ab; *Panurg.*: Calliopsis andreniformis ♀, sc, Verbenapis ♂ ♀, sc, fq.

Other Hymenoptera (9)—*Sphec.*: Ammobia ichneumonea, Prionox atrata, Spheg gracilis fq, in cop, nigricans, pictipennis, procera; *Bembic.*: Bembix nubillipennis; *Scoli.*: Scolia bicincta; *Vesp.*: Vespa maculata.

Diptera (11)—*Bombyli.*: Exoprosopa fasciata ab, fascipennis, Geron rufipes, Sparnopolius, Systoechus fq, Systropus fq; *Conop.*: Physocephala texana fq, tibialis, Stylogaster biannulata fq; *Tachin.*: Archytas analis; *Sarcophag.*: Helicobia 4-setosa.

Lepidoptera (6)—*Papilion.*: Eurymus, Pontia; *Hesperi.*: Ancyloxypha, Epargyreus, Pholisora catullus; *Utenuch.*: Seepsis.

Coleoptera (1)—*Lampyr.*: Chauliognathus pennsylvanicus fq.

Hemiptera (1)—*Caps.*: Calocoris.

Verbena stricta (5:67).—Blooms June 5–September 20; 120 visitors observed, June 19–September 15; Mas, R.

Long-tongued Bees (59)—*Ap.*: Apis ab; *Bomb.*: Bombias auricomus ♂ ♀ ♀, scutellaris ♀, separatus ♂ ♀, Bombus americanorum ♀, consimilis ♀, impatiens ♂ ♀, ab, ridingsii ♂ ♀, Psithyrus laboriosus ♂, variabilis ♂ ♀; *Ceratin.*: Ceratina ♀, se, ab, Zaidontomerus ♂; *Stelid.*: Anthidium psoraleae ♂, Dianthidium ♂, *type*; *Megachil.*: Osmini: Alcidamea simplex ♀, se, Ashmeadiella ♀; Megachilini (♂ ♀): Chelostomoides, Megachile brevis ab, generosa fq, mendica ab, petulans ab, 6-dentata, Oligotropus ab, Sayapis sayi ab, Xanthosarus fq; Coelioxyni: Coelioxys alternata ♂, fq, germana ♂ ♀, modesta ♂ ♀, ab, 8-dentata ♀, sayi ♂ ♀, fq; *Xylocop.*: Xylocopa ♀; *Nomad.*: Cephen ♀, Holonomada affabilis ♀; *Epeol.*: Epeolus bifasciatus ♂, Triaepolus concavus ♂ ♀, fq, concolor ♂ ♀, ab, cressonii ♂ ♀, ab, donatus ♀, lunatus ♂ ♀, ab, nevadensis ♂ ♀, remigatus ♂ ♀, fq, simplex ♂ ♀, fq; *Eucer.*: Anthedon ♀, Epimelissodes atripes ♂ ♀, fq, obliqua ♂ ♀, ab, Florilegus ♂ ♀, se, fq, Melissodes agilis ♂ ♀, fq, bimaeculata ♂ ♀, ab, in cop, coloradensis ♂, comptoides ♂ ♀, fq, coreopsis ♀, petalostemonis ♀, simillima ♀, trinodis ♂, variabilis ♂ ♀, fq, vernoniana ♂ ♀, ab, in cop, Peponapis ♂, Tetralonia dilecta ♀; *Emphor.*: Emphor ♂.

Short-tongued Bees (11)—*Halict.*: Agapostemon radiatus ♂ ♀, fq, splendens ♂ ♀, texanus ♂ ♀, viridulus ♂ ♀, fq, Halictus lerouxii ♂, Odontalictus ♀, Oxystoglossa confusa ♂ ♀, similis ♀; Sphecodini: Sphecodes minor ♀; *Panurg.*: Calliopsis andreniformis ♀, Verbenapis ♂ ♀, se, fq, in cop.

Other Hymenoptera (5)—*Sphex.*: Sphex nigricans, procerus, vulgaris; *Bembic.*: Bembix spinolae; *Scoli.*: Elis 5-eincta.

Diptera (15)—*Syrph.*: Baccha clavata, Eristalis tenax; *Nemestrin.*: Rhychocephalus fq; *Bombyli.*: Anthrax parvicornis ab, Bombylius atriceps, Exoprosopa fasciata ab, fascipennis, Geron rufipes ab, Systoechus fq; *Conop.*: Physocephala texana, tibialis, Stylogaster biannulata fq, neglecta, Zodion fulvifrons, obliquefasciatum.

Lepidoptera (30)—*Nymphal.*: Anosia, Argynnis, Euptoieta, Phyciodes, Vanessa huntera; *Lycaen.*: Cyaniris, Everes, Uranotes; *Papilion.*: Callidryas, Euphœades, Eurema, Eurymus, Iphiclides, Laertias, Pieris, Pontia ab; *Hesperi.*: Ancyloxypha, Atalopedes,

Atrytone delaware ab, *Epargyreus* fq, *Hesperia*, *Limochores taumas* ab, *Pholisora catullus*, *hayhurstii* fq, *Polites*, *Thanaos juvenalis*, *martialis*, *persius*, *Thorybes bathyllus*; *Sphing.*: *Hemaris axillaris*.

On nine days, July 10–August 7, 1913, 58 species and 450 individuals were taken on the flowers, as follows:—

Long-tongued Bees (24: 285)—*Ap.*: *Apis* 12; *Bomb.*: *Bombias separatus* 1; *Ceratin.*: *Ceratina* 25, *Zaodontomerus* 1; *Megachil.*: *Megachilini*: *Megachile brevis* 38, *generosa* 1, *mendica* 8, *petulans* 4, *Oligotropus* 2, *Sapapis sayi* 11; *Coelioxyini*: *Coelioxys alternata* 3, *modesta* 15, *sayi* 5; *Epeol.*: *Triepeolus concavus* 1, *concolor* 72, *cressonii* 8, *lunatus* 5, *remigatus* 1, *simplex* 2; *Eucer.*: *Epimelissodes obliqua* 8, *Melissodes bimaculata* 32, *coloradensis* 1, *comptoides* 2, *vernoniana* 27.

Short-tongued Bees (5: 12)—*Halict.*: *Agapostemon radiatus* 3, *viridulus* 2, *Oxystoglossa confusa* 3, *similis* 3; *Panurg.*: *Verbenapis* 1.

Other Hymenoptera (4: 22)—*Sphec.*: *Sphex nigricans* 3, *procera* 17, *vulgaris* 1; *Bembic.*: *Bembix spinolae* 1.

Diptera (7: 28)—*Bombyli.*: *Anthrax parvicornis* 1, *Exoprosopa fasciata* 17, *fascipennis* 1, *Geron rufipes* 3, *Systoechus* 3; *Conop.*: *Stylogaster neglecta* 2, *Zodion fulvifrons* 1.

Lepidoptera (18: 103)—*Nymphal.*: *Argynnis* 1, *Phyciodes* 2, *Vanessa huntera* 2; *Lycaen.*: *Cyaniris* 1, *Everes* 2; *Papilion.*: *Eurema* 2, *Laertias* 3, *Pontia* 7; *Hesperi.*: *Ancyloxypha* 2, *Atrytone delaware* 62, *Epargyreus* 5, *Hesperia* 1, *Limochores taumas* 1, *Pholisora hayhurstii* 7, *Polites* 1, *Thanaos martialis* 1, *Thorybes bathyllus* 1; *Sphing.*: *Hemaris axillaris* 2.

Verbena urticaefolia (5: 68).—Blooms June 19–October 5; 59 visitors observed, July 11–September 2; Mis, W.

Long-tongued Bees (13)—*Ap.*: *Apis*; *Bomb.*: *Bombus americanorum* ♂ ♀, *impatiens* ♀, *Ceratin.*: *Ceratina* ♀, sc; *Megachil.*: *Trypetini*: *Neotrypetes truncatus* ♀; *Megachilini*: *Megachile brevis* ♂ ♀, *mendica* ♂ ♀; *Coelioxyini*: *Coelioxys sayi* ♂ ♀, fq; *Nomad.*: *Cephen* ♀; *Epeol.*: *Epeolus bifasciatus* ♂ ♀, *Triepeolus concolor* ♂ ♀, *cressonii* ♂; *Eucer.*: *Melissodes bimaculata* ♀.

Short-tongued Bees (15)—*Halict.*: *Agapostemon radiatus* ♂ ♀, fq, *Augochlora fervida* ♂ ♀, *viridula* ♀, *Chloralictus pilosus* ♂ ♀, *versatus* ♀, *Evylaeus nelumbonis* ♀, *pectoralis* ♀, *Halictus lerouxii* ♂ ♀, fq, *Odontalictus* ♂ ♀, fq, *Oxystoglossa confusa* ♂ ♀, fq, *pura* ♂, *similis* ♂ ♀, fq, *Seladonia* ♂ ♀, ab; *Panurg.* (♂ ♀, sc, fq) *Calliopsis andreniformis*, *Verbenapis* in cop.

Other Hymenoptera (4)—*Sphex*: *Sphex gracilis* in cop, vulgaris; *Scoli*: *Elis 5-cincta*, *Scolia bicincta*.

Diptera (21)—*Syrph*: *Baccha clavata*, *Mesogramma geminata*, *Sphaerophoria*, *Syritta* fq; *Empid*: *Parempis*; *Bombyli*: *Anthrax fulvohirta*, *Exoprosopa fascipennis*, *Geron rufipes*, *Systropus*, *Toxophora*; *Conop*: *Oncomyia*, *Stylogaster neglecta*, *Zadion obliquefasciatum*; *Tachin*: *Archytas analis*, *Cistogaster oecidua*, *Epigrimyia geniculata* fq, *Phorantha humeralis*, *Siphona*, *Spallanzania*, *Trichophora* fq; *Musc*: *Compsomyia*.

Lepidoptera (6)—*Nymphal*: *Phyciodes*; *Lycaen*: *Everes* fq, *Uranotes*; *Papilion*: *Eurema*, *Pieris*, *Pontia*.

VIOLACEAE

Hybanthus concolor (16: 156-7).—Blooms April 30-May 30; 1 visitor observed, May 7; Mi, Y.

Short-tongued Bees (1)—*Halict*: *Oxystoglossa confusa* ♀.

Viola cucullata (2: 173).—Blooms March 17-May 21; 27 visitors observed, April 9-May 21; Ma, R. Insects not reversing on the flowers are marked n.

Long-tongued Bees (14)—*Ap*: *Apis*; *Bomb* (♀, n): *Bombias auricomus*, *separatus*, *Bombus americanorum*, *impatiens*; *Ceratin*: *Ceratina* ♂, n; *Megachil*: *Centrosmia* ♀, *Ceratosmia* ♂ ♀, *Osmia collinsiae* ♂, *pumila* ♂ ♀, se, ab; *Nomad*: *Holonomada affabilis* ♀; *Eucer*: *Tetralonia belfragei* ♂ ♀, *dilecta* ♂; *Anthophor*: *Anthophora* ♂, n.

Short-tongued Bees (5)—*Halict* (♀): *Chloralictus cressonii* n, *type*, *Evylaeus foxii*, *Seladonia* n; *Andren*: *Andrena carlini* ♀, *Iomelissa violae* ♂ ♀, se, ab, *type*.

Diptera (2, n)—*Bombyli*: *Bombylius major*, *pulchellus*.

Lepidoptera (6)—*Nymphal*: *Vanessa huntera*; *Papilion*: *Eurymus*, *Pieris*; *Hesperi*: *Thanaos brizo*, *juvenalis*, *martialis*.

Viola pedata (2: 174-5).—Blooms April 13-May 27; 14 visitors observed, April 19-May 20; Ma, R.

Long-tongued Bees (6)—*Ap*: *Apis*; *Bomb* (♀): *Bombias separatus*, *Bombus americanorum* ab, *impatiens*; *Eucer*: *Tetralonia dilecta* ♂ ♀; *Anthophor*: *Anthophora* ♀, se, ab.

Diptera (1)—*Syrph*: *Eristalis latifrons* fsp, n.

Lepidoptera (7)—*Nymphal*: *Vanessa cardui*; *Papilion*: *Eurymus*, *Pieris*; *Hesperi*: *Thanaos brizo* ab, *icelus*, *juvenalis*; *Noctu*: *Plusia simplex*.

Viola pedatifida.—Blooms April 17-May 20; 1 visitor observed, May 15; Ma, R.

Long-tongued Bees (1)—*Eucer.*: *Tetralonia dilecta* ♂.

Viola pubescens (2:172-3).—Blooms April 9–May 7; 22 visitors observed, April 16–30; Mi, Y.

Long-tongued Bees (7)—*Bomb.*: *Bombus americanorum* ♀, n; *Ceratin.*: *Ceratina* ♀; *Megachil.*: *Osmia atriventris* ♀, sc, ab, *pumila* ♂ ♀, sc, ab, in cop; *Nomad.*: *Nomada sayi* ♀; *Eucer.*: *Tetralonia belfragei* ♀; *Anthophor.*: *Anthophora* ♀.

Short-tongued Bees (7, ♀)—*Halict.*: *Chloralictus pilosus* sc, *sparsus* sc, *versatus*, *Curtisapis coriacea*, *Oxystoglossa confusa* sc, ab, *Seladonia*; *Andren.*: *Andrena carlini* sc.

Diptera (5)—*Syrph.* (fsp, n): *Melanostoma obscurum*, *Mesogramma marginata*, *Paragus tibialis*; *Bombyli.*: *Bombylius major* ab; *Tachin.*: *Gonia capitata*.

Lepidoptera (3)—*Papilion.*: *Eurymus*; *Hesperi.*: *Thanaos juvenalis*, *martialis*.

Viola sagittata.—Blooms April 15–May 24; 3 visitors observed, April 25–29; Ma, R.

Long-tongued Bees (1)—*Megachil.*: *Osmia pumila* ♂, 1.

Short-tongued Bees (1)—*Andren.*: *Iomelissa* ♂ ♀, sc, 4.

Lepidoptera (1)—*Papilion.*: *Eurymus* 1.

Viola striata (2:174).—Blooms April 12–June 8; 19 visitors observed, April 16–May 20; Ma, W. Visitors not reversing are marked n.

Long-tongued Bees (13)—*Ap.* *Apis* n; *Bomb.* (♀, n): *Bombias auricomus*, *separatus*, *Bombus americanorum*, *consimilis*, *impatiens*; *Ceratin.*: *Zaodontomerus* ♂, n; *Megachil.* (sc): *Diceratomia* ♀, *Osmia atriventris* ♀, *collinsiae* ♂ ♀, fq, *pumila* ♀, fq; *Eucer.*: *Tetralonia belfragei* ♂ ♀, fq, n, *dilecta* ♂, n.

Short-tongued Bees (3, ♀)—*Halict.*: *Curtisapis coriacea*; *Andren.*: *Andrena carlini*, *Iomelissa* sc, fq.

Diptera (1)—*Bombyli.*: *Bombylius major* n.

Lepidoptera (2, n)—*Papilion.*: *Eurymus*; *Hesperi.*: *Thanaos persius*.

VITACEAE

Psedera quinquefolia.—Blooms June 13–July 27; 1 visitor observed, June 22, July 27; Mas, Y.

Long-tongued Bees (1)—*Megachil.*: *Megachile mendica* ♂ ♀, sc, ab.

Vitis cordifolia.—Blooms June 5–22; 3 visitors observed, June 15; Mas, Y.

Long-tongued Bees (3)—*Ap.* *Apis c*; *Bomb.*: *Bombias separatus* ♀, *c*; *Eucer.*: *Tetralonia dilecta* ♀.

Vitis vulpina.—Blooms May 12–June 1; 3 visitors observed, May 16–29; Mas, Y.

Long-tongued Bees (3, ♀, *c*)—*Bomb.*: *Bombias separatus*, *Bombus americanorum*, *impatiens*.

FLOWERS AND INSECTS PAPERS CITED

1. Insects and Aselepiads. *Bot. G.* **12**: 207–16, 244–50. 1887.
2. Fls. I–III. *Bot. G.* **14**: 120–6, 172–8, 297–304. 1889.
3. Fls. IV, V. *Bot. G.* **15**: 79–84, 199–204. 1890.
4. Fls. VI. *Bot. G.* **16**: 65–71. 1891.
5. Fls. VII–IX. *Bot. G.* **17**: 65–71, 173–9, 269–76. 1892.
6. Fls. X, XI. *Bot. G.* **18**: 47–54, 267–74. 1893.
7. Fls. XII. *Bot. G.* **19**: 103–12. 1894.
8. Fls. XIII, XIV. *Bot. G.* **20**: 104–10, 139–49. 1895.
9. Fls. XV–XVII. *Bot. G.* **21**: 72–81, 266–74; **22**: 154–65. 1896.
10. Fls. XVIII. *Bot. G.* **25**: 229–45. 1898.
11. Fls. XIX. *Bot. G.* **28**: 27–45. 1899.
12. Fls. Umbelliferae. *St. L. A.* **5**: 449–60. 1890.
13. Fls. Aselep. to Scroph. *St. L. A.* **5**: 569–98. 1891.
14. Fls. Labiatae. *St. L. A.* **6**: 101–31. 1892.
15. Fls. Rosaceae and Compositae. *St. L. A.* **6**: 435–80. 1894.
16. Fls. Contributions. *St. L. A.* **7**: 151–79. 1896.

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XXII. *Bot. G.* **18**: 47–54, 267–74.





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