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UTAH STATE UNIVERSITY ECOLOGY CENTER Terrestrial Arthropod Series No. 9

ACULEATE HYMENOPTERA (VESPIDAE AND SPHECIDAE) OF CURLEW VALLEY

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A preliminary survey of the terrestrial arthropods of Curlew Valley was begun in 1969. Since that time the survey has continued in connection with Desert Biome IBP projects and assignments to this area, plus trips made purely to add insect material for the survey program. In addition to the writers, assistance in collecting was received from Dr. Donald W. Davis. Various co-workers have added smaller numbers of specimens.

The preliminary insect survey of Curlew Valley was conducted as

Utah State University, Ecology Center Project 31 and 31A, supported by

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Logan, Utah 84322
April 1974

Curlew Valley extends from the north shore of the Great Salt Lake through a section of Box Elder County in Utah, north into Oneida County, Idaho, to Holbrook Summit, Roy Summit, and to just beyond Juniper. Along the east-west highway it extends from one mile south of Strevell eastward to 4 miles east of Snowville. Utah localities include Cedar Creek, Cedar Hill, Curlew Jct., Deep Creek, Hansel Mts., Hardup and Kelton (now ghost towns), Kelton Pass, Kosmo, Locomotive Springs, Rose Ranch, Snowville and Wildcat Hills. Idaho localities include Black Pine, Curlew National Grasslands, Curlew Valley ("Stone") Reservoir, Holbrook, sand dunes about five miles south of Holbrook, Holbrook Summit (6110 ft.), Ireland Canyon, Juniper, Meadow Brook Creek, Rock Creek, meadow and foothill area south of Roy Summit, Salyer Cow Camp, Sheep Creek Mts., Stone and Twin Springs.

We are much indebted to Dr. Richard M. Bohart who recently identified nearly all of the wasps reported here. Several additional identifications were made by Drs. F. D. Parker, J. E. Gillaspy, D. P. Levin, and G. E. Bohart.

HYMENOPTERA - Vespidae

The family Vespidae includes wasps with the front wings folded longitudinally and with the pronotum in intimate contact with the tegula. Those in the subfamily Vespinae make paper nests with hexagonal cells. These are generally social and omniverous. The Eumeninae are the pottery wasps, making mud nests in which they store larval Lepidoptera,

Coeoptera and Hymenoptera (sawflies) to feed their young.

EUMENINAE

- Ancistrocerus adiabatus albolactus Bequaert. Holbrook, June 9 and Rock Creek, July.
- A. catskill (Saussure). Curlew Valley Reservoir, Locomotive Springs, Rock Creek, Salyer Cow Camp, Snowville and Stone, sometimes on Cirsium and in Malaise traps, June-July, September.
- A catskill albophalaratus (Saussure). Holbrook, Kelton, Rock Creek, south of Roy Summit and Twin Springs, May-July.
- A. lineativentris Cameron. Holbrook, Rock Creek, Salyer Cow Camp and
 Twin Springs, some on Cirsium arvense, June-August.
- A. simulator Cameron. Rock Creek and Salyer Cow Camp, July.
- A. spilogaster Cameron. Salyer Cow Camp, July-August.
- A. tuberculocephalus (Saussure). Holbrook, Rock Creek, south of Roy Summit, Salyer Cow Camp and Twin Springs, June-July.

 (Commonly re-use the nests of yellow and black mud daubers, Sceliphron).
- Eumenes bollii Cresson. Rock Creek, June 6, 1972.
- E. crucifera Provancher. Rock Creek, south of Roy Summit, Salyer Cow
 Camp, Snowville and Twin Springs, July.
- Euodynerus annulatus sulphureus (Saussure). Cedar Creek Jct., Cedar Hill,
 Curlew Valley Reservoir, Hardup, Ireland Canyon, Kelton Pass,
 Meadow Brook Creek, Rock Creek, Salyer Cow Camp, Snowville,

- Stone, Twin Springs, sometimes taken on Achillea millifolium, Cirsium arvense and Solidago, June-September.
- E. auranus (Cameron). Hardup, June 28, 1972.
- E. exoglyphus albovittatus (R. Bohart). Cedar Creek, Curlew Valley
 Reservoir, Hardup, Holbrook, Kelton, Kelton Pass, Rock Creek
 and Salyer Cow Camp, May-July.
- E. foraminatus (Saussure). Rock Creek, Salyer Cow Camp, Snowville, and Twin Springs, June-July.
- E. hidalgo (Saussure). Rock Creek, south of Roy Summit, Salyer Cow Camp and Twin Springs, some taken on Girsium arvense, July-August.
- E. leucomalus (Saussure). Holbrook, Rock Creek, Salyer Cow Camp and Twin Springs, June-July.
- E. pratensis (Saussure). 10 miles east of Park Valley, June 28, 1972.

 Leptochilus eubescens (R. Bohart). Salver Cow Camp, July 23, 1971.
- L. rufinodus (Cresson). Cedar Creek, Hardup and Kelton Pass, June 28, 1972.
- Microdynerus bakeriana (Cameron). Holbrook, Meadow Brook Creek and Salyer Cow Camp, on Achillea millifolium, June.
- Odynerus dilectus (Saussure). Curlew National Grasslands, Holbrook,
 Snowville, and Stone, May-June. Stores nest with larvae of the alfalfa weevil.
- Parancistrocerus acarigaster (R. Bohart). Holbrook, Kelton, and Snowville, June-July.
- P. maclayi R. Bohart. Rock Creek, Salyer Cow Camp and Twin Springs,
 July, some on Cirsium arvense.
- P. minimoferus (R. Bohart). Hansel Mts. and Rock Creek, July.

- P. pensylvanicus (Saussure). Curlew Valley Reservoir and Salyer Cow Camp, July 23, 1971.
- P. vagus (Saussure). Ireland Canyon and Salyer Cow Camp, on Chrysothamus blossoms, July-September.
- Pseudepipona herrichi (Saussure). Salyer Cow Camp, July 27, 1972.
- Pterocheilus decorus Cresson. Taken in Malaise trap at Holbrook, June 8 and 15, 1972.
- P. morrisoni Cresson. Curlew Valley Jct. (Showell), Cedar Creek, Hardup,
 Holbrook, Kelton Pass and Snowville, May-June, sometimes on
 Achillea, some in Malaise traps.
- P. pedicellatus R. Bohart. Cedar Creek, Cedar Hill, Holbrook and Kelton, June-September.
- P. provancheri (Huard). Black Pine, Cedar Creek, Holbrook and Snowville, some in Malaise traps, May-July, September.
- P. quinquefasciatus Say. Curlew Jct., Salyer Cow Camp and Snowville,
 July. Usually collected on Melilotus (sweetclover).
- Stenodynerus anormis (Say). Curlew Valley Reservoir, Holbrook, on

 Achillea millifolium blossoms at Meadow Brook Creek, Rock

 Creek, Salyer Cow Camp, Stone and Twin Springs, sometimes on

 Cirsium arvense, June-September.
- S. blandoides R. Bohart. Cedar Creek, Curlew Junction, Curlew Valley
 Reservoir, Holbrook, Kelton Pass, Locomotive Springs,
 Meadow Brook Creek, Salyer Cow Camp on Achillea millifolium
 and on Chrysothamnus at Wildcat Hills, June-September.
- S. canus R. Bohart. Rock Creek, July 13, 1972.

- S. kennicottianus (Saussure). Locomotive Springs and Salyer Cow Camp, usually on Chrysothamnus, July, September.
- S. noticeps R. Bohart. On Chrysothamnus viscidiflorus at Cedar Hill during August, Holbrook, Kelton, Locomotive Springs, Rock Creek, Salyer Cow Camp, Snowville, on C. nauseosus, also at Wildcat Hills, June-September.
- S. valliceps R. Bohart. On *Orrysothamnus* at Curlew Valley Reservoir,

 Cedar Hill, Kelton, Locomotive Springs, Snowville, JuneSeptember.
- Symmorphus meridionalis Viereck. Twin Springs, July 17, 1972. Most species store tenthredinid (sawfly) larvae instead of Lepidoptera.

VESPINAE

Polistes fuscatus utahensis Hayward. Salyer Cow Camp, south of Roy Summit and Twin Springs, August, October.

Vespula pensylvanica (Saussure). Salyer Cow Camp, August 11, 1972.

V. rufa atropilosa (Sladen). Salyer Cow Camp, August 11, 1972.

HYMENOPTERA - Sphecidae

The Sphecidae differ from the Vespidae in not having a longitudinal fold in the forewing and in having a conspicuous separation between the pronotum and the tegula. The sphecids are solitary wasps

that come to blossoming plants. Their nest sites vary; some are found in hollow stems, or beetle burrows in wood, others burrow in the soil or make exposed cells on rocks. They line their burrows or construct their cells with various materials such as mud, resin, or fibers. In most cases, particular species will store only insects or spiders of a single family. Commonly, a particular genus restricts its prey to members of a particular order or, in some cases, to a family. Host insects are taken both as adults and as immatures, but generally by separate wasp species.

Ammophila aberti Haldeman. Cedar Hill, Holbrook, Kelton and Kelton

Pass, July-August. All members of this genus provision their

nests with lepidopterous larvae.

- A. cleopatra Menke. Rock Creek, July 21, 1971.
- A. ferruginosus Cresson. Twin Springs, July 6, 1972.
- Ammophila spp. On Solidago ten miles west of Snowville, August 11, 1972. 75 specimens, throughout Curlew Valley.
- Ancistromma capax (W. Fox). Holbrook, August 10, 16 and 26 in Malaise traps, south of Roy Summit and Snowville, July-August.

 Prey nymphal Acrididae.
- A distincta (F. Smith). Holbrook Summit at 6110 ft., and Snowville,

 August. Prey nymphal Acrididae.
- Astata bakeri Parker. Cedar Hill, Curlew Jct., Hansel Mts., Ireland Canyon, Kelton, Rock Creek, south of Roy Summit, Salyer Cow Camp and Snowville, July-August, sometimes on Sophia and other mustard blossoms. Prey nymphal Pentatomidae.

- A bechteli Parker. Curlew Jct., Curlew Valley Reservoir, Holbrook,
 Kelton (August 24, 1949), Salyer Cow Camp and Stone, JulySeptember. Prey nymphal Pentatomidae.
- A. leuthstromi Ashmead. Hansel Mts., July 22, 1969. Prey nymphal or adult Pentatomidae.
- A. nevadica Cresson. Cedar Hill, Park Valley Jct., Snowville and Twin Springs, June-August. Prey nymphal Pentatomidae.
- A. nubecula Cresson. Hansel Mts., Holbrook, south of Roy Summit,

 Salyer Cow Camp, Snowville, Stone and Twin Springs, June
 August. Prey nymphal and adult Pentatomidae.
- A. occidentalis Cresson. Snowville, July 22, 1969. Prey nymphal and adult Pentatomidae.
- Belomicrus cladothricis (Cockerell). On Chrysothammus at Holbrook, July 17, 1972. Prey small Coleoptera.
- B. coloratus Baker. (or near). Holbrook, Snowville and Stone, May, July.

 Prey probably small Coleoptera.
- B. forbesii (Robertson). Holbrook, June 10, 1971. Prey probably small Coleoptera.
- Cerceris acanthophila Cockerell. Cedar Hill, Kelton, Locomotive Springs,

 Snowville and Wildcat Hills, often on Chrysothamnus viscidiflorus
 and C. nauseosus blossoms, July-August. Prey adult
 Coleoptera taken by all North American Cerceris.
- C. aequalis Provancher. Curlew Valley (Stone) Reservoir, Kelton and Rock Creek, June-July.
- C. californica Cresson. Curlew Valley (Stone) Reservoir, Rock Creek and

Twin Springs, June-July.

- C. conifrons Mickel. Cedar Hill, Holbrook, Salyer Cow Camp and Snowville, on Achillea millifolium, Solidago and in noctuid pheromone trap, June-August.
- C. convergens Viereck & Cockerell. Cedar Hill, Curlew Valley Reservoir,

 Holbrook Summit at 6110 ft., Kelton, Locomotive Springs and
 Snowville, visiting Chrysathamnus nauseosus and C. viscidiflorus,
 July-August.
- C. finitima Cresson. Curlew Valley Reservoir, Kelton and on Solidago 10 miles west of Snowville, July-August.
- C. frontata Say. Cedar Hill on Chrysothamnus viscidiflorus, August 5, 1969.
- C. nigrescens F. Smith. Black Pine, Curlew National Grasslands, Curlew Valley (Stone) Reservoir, Holbrook, Holbrook Summit, Ireland Canyon, Kelton, Rock Creek, south of Roy Summit, Salyer Cow Camp, Snowville, Stone, and Twin Springs. Taken on Cirsium arvense, Chrysothamnus and Solidago, May-September.
- C. rufinoda Cresson. Cedar Hill on Chrysothamnus viscidiflorus, on
 Chrysothamnus at sand dunes south of Holbrook and Snowville,
 July-August.
- C. sextoides Banks. Curlew National Grasslands and Curlew Valley (Stone)

 Reservoir on Chrysothamnus nauseosus, Salyer Cow Camp and

 Snowville on Solidago and Chrysothamnus viscidiflorus, July
 August.
- C. varians Mickel. Cedar Creek Jct., Holbrook, Rock Creek, Salyer Cow

- Camp, Snowville and Twin Springs, June-July.
- Chalybion californicum (Saussure). Curlew Valley Reservoir, south of

 Roy Summit and Salyer Cow Camp, July-September. Prey spiders.

 Usurps nests of Sceliphron wasps.
- Crabro cognatus Fox. Snowville, August 19, 1969. Prey adult Diptera stored by all Crabro.
- C. latipes F. Smith. South of Roy Summit, Salyer Cow Camp, Snowville, Stone and Twin Springs, May-August.
- Crossocerus spp. Curlew Valley Reservoir, July. Prey adult Diptera.
- C. scutcllifer (Dalla Torre). Curlew Valley Reservoir and Snowville,

 July 15, 1969. Prey adult Diptera.
- Didineis nodosa W. Fox. Holbrook in Malaise trap, Kelton, July. Prey fulgoroid Homoptera.
- Diodontus spp. 38 specimens from Curlew Valley Reservoir, Holbrook,

 Holbrook Summit, Ireland Canyon, Kelton, Kelton Pass, Locomotive

 Springs, Rock Creek, Salyer Cow Camp, Snowville and Twin

 Springs, May-September, visits Chrysothamus nauseosus. PreyAphididae, Psyllidae.
- Diploplectron beccum Parker. Holbrook (Malaise trap), August, 1972.

 Prey Lygaeidae (Hemiptera) for this genus.
- D. ferrugineum Ashmead. Holbrook, 5 miles west Cedar Hill on *Orysothamnus*July, August.
- Dryudella sp. Snowville, August 1, 1969. Prey small Hemiptera for this genus.
- D. immigrans Williams. In Malaise trap at Holbrook, August 8, 1972.
- D. picta (Kohl). Snowville, September 5, 1969.

- D. rhimpa Parker. Very numerous at Kelton, August 24, 1949, and Kelton Pass, Curlew Valley Reservoir and Holbrook, July-September.
- Ectemmius arcuatus (Say). Twin Springs, August 3, 1972. Prey Diptera for this genus.
- E. continuus (F.). Salyer Cow Camp, August 3, 1969.
- E. dilectus (Cresson). Cedar Hill on Chrysothammus viscidiflorus,

 Curlew Valley Reservoir, Meadow Brook Creek, Holbrook, Rock

 Creek, Salyer Cow Camp, Snowville on Solidago and Stone,

 May-September.
- E. lapidarius (Panzer). Salyer Cow Camp and Snowville, July-August.
- E. spiniferus (W. Fox). Cedar Hill and Twin Springs on Orysothamnus viscidiflorus, Curlew Valley Reservoir, Holbrook, Rock Creek on Cirsium arvense, Salyer Cow Camp, Snowville, on Solidago, July-August.
- Epinysson bellus Cresson. Locomotive Springs, June 30, 1969. Inquilines in nests of Sphecidae.
- Eucerceris cressoni (Schletter). Meadow Brook Creek, Rock Creek, Salyer

 Cow Camp and Twin Springs, on *Chrysothamnus nauseosus* and

 C. viscidiflorus, July-September. Prey adult Coleoptera for this genus.
- E. similis Cresson (=E. barri Scullen). South of Roy Summit, July 23, 1971.
- E. superba Cresson. Attracted to Chrysothamnus nauseosus, C. viscidiflorus, Solidago, Cedar Hill, Curlew Valley Reservoir, Holbrook, Ireland Canyon, sand dunes south of Holbrook, Snowville, July-September.

- E. zonata (Say). Curlew Valley (Stone) Reservoir, June 29, 1969.
- Gorytes albosignatus W. Fox. Twin Springs, June 1, 1972. Prey auchenorhynchous Homoptera for this genus.
- G. angustus (Provancher). Salyer Cow Camp, July 27, 1972.
- G. umatillae R. Bohart. Holbrook in Malaise trap, June 15, 1972.
- Hoplisoides punctifrons (Cameron). Locomotive Springs, July 30, 1969.

 Prey nymphal membracidae (Homoptera).
- Hyponysson bicolor (Cresson). Kelton, June 27, 1969. Inquilines in nests of Specidae.
- Isodontia elegans F. Smith. Rock Creek, Salyer Cow Camp and Twin Springs,

 July. Prey Gryllidae (Oecanthus).
- Larropsis tenuicornis (F. Smith). Snowville, August, 1972 on Orrysothamnus viscidiflorus. Prey nymphal Acrididae.
- Lestica producticollis (Puck). Salyer Cow Camp, July 27, 1971.

 Prey different species known to take adult Pterophoridae (plume moths).
- Lestiphorus piceus (Handlirsch). Holbrook, Holbrook Summit and Salyer

 Cow Camp, July-August. Prey unknown but probably Hemiptera.
- Lindenius columbianus (Kohl). Common on Chrysothamnus nauseosus, C
 viscidiflorus, Solidago and in Malaise trap, Cedar Hill, Curlew
 National Grasslands, Curlew Valley Reservoir, Holbrook, Holbrook
 Summit, Ireland Canyon, Kelton, Locomotive Springs, Rock Creek,
 Salyer Cow Camp, Snowville, Stone and Twin Springs, MaySeptember. Prey small parasitic Hymenoptera adults.
- Linis argentata (Palisot-Beauvais). Malaise trap, Kelton, June 30, 1969.

- Prey crickets (Orthoptera).
- Mimesa spp. Cedar Hill, Curlew Valley Reservoir, Hansel Mts., Holbrook,
 Holbrook Summit, Ireland Canyon, Kelton Pass, Snowville, and
 Twin Springs, June-October. Prey Cicadellidae.
- Mimumesa mixta (W. Fox). Rock Creek, Snowville, and Twin Springs,

 May, July. Prey Cicadellidae.
- Miscophus americanus W. Fox. Holbrook and Twin Springs, July-August.

 Prey spiders (Eperidae).
- Nysson fidelis Cresson. Stone, May 27, 1969. Inquilines in nests of Sphecidae.
- Oxybelus emarginatus Say. Cedar Hill on Chrysothamnus viscidiflorus,

 Holbrook on Tetradymia canescens, Holbrook Summit, Ireland
 Canyon on Chrysothamnus nauseosus, Kelton in Malaise trap,
 Rock Creek, Salyer Cow Camp, Snowville, and Twin Springs,
 June-September. Prey small adult Diptera.
- O. uniglumis (L.). Holbrook, Rock Creek, Salyer Cow Camp, Snowville on

 Chrysothamnus and Solidago, Stone, Meadow Brook Creek and Twin

 Springs, May-September. Prey small adult Diptera.
- Palmodes dimidiatus (De Geer). Sand dunes south of Holbrook, July 17, 1972. Prey Orthoptera.
- Pemphredon inornata Say. Twin Springs, July 17, 1972. Prey Aphididae.
- P. lethifer Shuckard. Snowville, May 27, 1969 and Stone. Prey-Aphididae.
- Philanthus gibbosus (F.). Curlew National Grasslands, Rock Creek and
 Twin Springs, July. Prey Apoidea (bees) for this genus.

- P. multimaculatus Cameron. Collected on blossoming Chrysothamnus

 nauseosus, C. viscidiflorus and Solidago, Cedar Hill, Curlew

 National Grasslands, Curlew Valley Reservoir, Hardup, Holbrook,

 Holbrook Summit (6110 ft. elev.), Kelton, Locomotive Springs,

 Rock Creek, south of Roy Summit, Snowville, Stone and Twin

 Springs, June-September.
- P. pulcher Dalla Torre. Salyer Cow Camp, June 22, 1972.
- P. ventilabris F. Kelton Pass, and Snowville on Solidago, July-August. Pisonopsis spp. Holbrook, June-August, 1972. Prey spiders.
- Pluto sp. Locomotive Springs, July 22, 1969. Prey probably

 Cicadellidae.
- Polalonia communis (Cresson). Holbrook, Meadow Brook Creek, Rock Creek,
 Salyer Cow Camp and Twin Springs, on Achilles millifolium,
 Chrysothamus, Tetradymia canescens and in Malaise trap,
 May-July. Prey Lepidopterous larvae (mostly Noctuidae) for
 this genus.
- P. luctuosa (F. Smith). This species was collected on Chrysothamnus nauseosus, C. viscidiflorus, bull thistle, Solidago, Helianthus annuus, Achillea millifolium, Melilotus officinalis, and on other blossoming plants from all localities in Curlew Valley, but more numerous from Snowville north. Most numerous in June and July but some taken during August and September, 130 specimens.
 - P. melaena Murray. Kelton, June 27, 1969.
 - P. mexicana (Saussure). On Chrysothamnus nauseosus and C. viscidiflorus, at Black Pine, Cedar Hill, and Wildcat Hills. Also collected

- at Cedar Creek Jct., Holbrook, Juniper, Kelton Pass, Locomotive Springs, Rock Creek, Snowville, Twin Springs, June-October.
- P. occidentalis Murray. Rock Creek, July 6, 1972.
- P. robusta (Cresson). Holbrook, Rock Creek and Salyer Cow Camp, June-August.
- P. valida (Cresson). Cedar Creek, Holbrook, Rock Creek and Twin Springs,

 June-July.
- Prionyx atratus (Lepeletier). Visiting Chrysothamnus nauseosus, C.

 viscidiflorus, Solidago and other blossoms, Cedar Hill,

 Curlew Valley Reservoir, Ireland Canyon, sand dunes south of

 Holbrook, Locomotive Springs, Rock Creek, Snowville, Stone

 and Wildcat Hills, June-September. Prey Acrididae

 (Orthoptera) for this genus.
- P. canadensis (Provancher). Visiting Chrysothamnus nauseosus and C. viscidiflorus blooms, Cedar Creek, Cedar Hill, Hardup, Holbrook, Ireland Canyon, Kelton, Locomotive Springs, sand dunes south of Holbrook, Rock Creek, Snowville, Stone, Twin Springs and Wildcat Hills, June-September.
- P. thomae (F.). Cedar Hill on Chrysothamnus viscidiflorus, Locomotive Springs on C. nauseosus, August-September.
- Pseudoplisus venustus (Cresson). Salyer Cow Camp, August 10, 1972.

 Prey Homoptera.
- Sceliphron caementarium (Drury). Curlew Valley Reservoir, Locomotive

 Springs and Salyer Cow Camp, July-August. Prey spiders.

 Solierella spp. Curlew Valley Reservoir and Holbrook, July, in Malaise

- trap. Prey some species use nymphal Hemiptera and others use nymphal Acrididae (Orthoptera).
- Sphex ashmeadi (Fernald). Salyer Cow Camp, July 23, 1971 and August
 10, 1972. Prey Acrididae and Tettigoniidae for this genus.
- S. ichneumoneus (L.). Holbrook on Chrysothamnus and in Malaise trap

 and sand dunes about five miles south of Holbrook, July-August.
- Steniolia elegans Parker. Holbrook and Kelton, June, August. Prey large adult Diptera.
- Stictiella nubilosa Gillaspy. On Solidago at Snowville, August 11, 1972.

 Prey adult Diptera for this genus.
- S. pulchella (Cresson). Sand dunes south of Holbrook, June 27, 1972.
- Stigmus spp. Curlew National Grasslands and Salyer Cow Camp, May, July.

 Prey Aphididae.
- Stizioides unicinctus (Say). Visiting Chrysothamnus nauseosus, C.

 viscidiflorus and Solidago in blossom, at Cedar Hill, Curlew

 Jct., Holbrook and sand dunes to the south, Kelton, Locomotive

 Springs, Snowville and Stone, May-September. Inquilines in nests

 of Prionyx (Sphecidae).
- Tachysphex ashmeadii Fox. On Chrysothanmus at Holbrook, sand dunes south of Holbrook and Rock Creek, July. Prey Acrididae (Orthoptera) nymphs for most members of this genus.
- T. coquilletti Rohwer. Snowville, August 1, 1969 and Curlew Valley Reservoir, July 25, 1969.
- T. parvulus (Cresson). Salyer Cow Camp, July 21 and August 3, 1972.
- T. rufitarsis (Cameron). Holbrook, on umbelliferous blooms at Salyer

 Cow Camp and Twin Springs, July-August.

- T. tarsatus (Say). In Malaise trap at Holbrook, Cedar Hill in pheromone trap, Holbrook Summit, sand dunes south of Holbrook, Salyer

 Cow Camp, Snowville and Twin Springs, July-August.
- T. terminatus (Smith). Curlew Valley (Stone) Reservoir, Holbrook, Rock
 Creek, Salyer Cow Camp, visits Chrysothamnus, June-September.
- T. texanus (Cresson). In Malaise trap at Holbrook, on Solidago west of Snowville, June-August.
- T. sp. Holbrook and sand dunes about five miles south, June-July.
- Tachytes fulviventris Cresson. On Solidago, 10 miles west of Snowville,

 August 10, 1972. Prey Acrididae and Tettigoniidae (Orthoptera)

 for this genus.
- T. nevadensis R. Bohart. Kelton Pass, September 7, 1972.
- T. sayi Banks. On Chrysothamnus viscidiflorus, Cedar Hill, Curlew National Grasslands, Curlew Valley Reservoir, on Cirsium arvense at Rock Creek, sand dunes south of Holbrook, Salyer Cow Camp, Snowville, June-July.
- Trypoxylon spp. Kelton, Rock Creek and Salyer Cow Camp, July-August.

 Prey spiders.
- Glenostictia pulla (Haldeman). Sand dunes about five miles south of Holbrook, July 17, 1972. Prey adult Diptera.