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UTAH STATE UNIVERSITY ECOLOGY CENTER
TERRESTRIAL ARTHROPOD SERIES NO. 10
Dolichopodidae (Diptera) and Braconidae
(Hymenoptera) of Curlew Valley

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A preliminary report of the dolichopodid flies of Curlew Valley made in 1971 listed 16 species and a number of additional specimens identified only to genus. The present list includes 35 species. These, included with the several species identified only to genus, bring the number of genera to 12. All material of this family was identified by Fred C. Harmston. Most of these flies were taken in or near moist areas.

We are indebted to Dr. Paul M. Marsh for identifying 20 species of braconid wasps. Many additional species identified only to genus brings the total number of genera to 28.

Utah localities in Curlew Valley, Box Elder County, include Cedar Creek, Cedar Hill, Curlew Junction, Deep Creek, Hansel Mountains, Hardup and Kelton (now ghost towns), Kelton Pass, Kosmo, Locomotive Springs, Rose Ranch, Snowville and Wildcat Hills. Idaho, Oneida County named localities include Black Pine, Black Pine Canyon, Black Pine Mountain, Curlew National Grasslands, Curlew Valley Reservoir (often called "Stone Reservoir"), Holbrook, sand dunes south of Holbrook, Holbrook Summit (6110 ft.), Ireland Canyon, Juniper, Meadow Brook Creek, Rock Creek, meadow and foothill areas south of Roy Summit, Salyer Cow Camp, Sheep Creek Mountains, Stone and Twin Springs.

The preliminary survey of Curlew Valley, Utah and Idaho, was begun in 1969 as Utah State University Ecology Center Project 31 and 31A, supported by NSF, Gifts and Grants funds. Logan, Utah 84322. August 1974.

FAMILY DOLICHOPODIDAE

Recent identifications permit us to prepare an excellent list of the flies of this family from Curlew Valley. The adult flies are predacious and occur in moist places. The larvae are largely aquatic and are also predacious, although a few are known to mine stems.

Asyndetus sp. Locomotive Springs and Holbrook, June - July.

Campsicnemus nigripes Van D. Twin Springs, October 12.

C. thersites Whl. Curlew Ntl. Grasslands and Curlew Valley Reservoir, September.

Diaphorus aldrichi Van D. Curlew Valley Reservoir, July.

D. palpiger Whl. Curlew Valley Reservoir, June.

Dolichopus acuminatus Lw. Stone, September.

D. adaequatus Van D. Meadow Brook Creek, Rock Creek, south of Roy summit, Sal-
yer Cow Camp, Snowville and Twin Springs, May and July.

D. afflictus (O.S.) Curlew Ntl. Grasslands and Reservoir, Kosmo, Locomotive
Springs, south of Roy Summit and Twin Springs, July-September.

D. amnicola M. & B. Curlew Valley Reservoir, Rock Creek, and Twin Springs,
July-August.

D. appendiculatus Van D. Rock Creek, south of Roy Summit and Twin Springs,
June-July.

D. bifractus Lw. Curlew Valley Reservoir and Locomotive Springs, June-September.

D. conspectus Van D. Curlew Valley Reservoir, Holbrook, south of Roy Summit,
Snowville, and Twin Springs, May-August.

D. crenatus (O.S.) Rock Creek, July.

D. cuprinus Wd. Rock Creek and Twin Springs, July.

D. idahoensis (Ald.) Curlew Valley Reservoir and Locomotive Springs, September.

D. jugalis Tuck. Curlew Valley Reservoir, Ireland Canyon, Rock Creek, south of
Roy Summit, Salyer Cow Camp, Snowville, and Twin Springs, May-July.

- D. obcordatus Ald. This is a very common and often extremely numerous species in meadow situations. Taken at Curlew Valley Reservoir, Deep Creek, Rock Creek, south of Roy Summit, Salyer Cow Camp, and Twin Springs, May-October.
- D. opportunis Van D. Locomotive Springs, July.
- D. penicillatus Van D. Curlew Valley Reservoir, Kosmo, Rock Creek, south of Roy Summit, Salyer Cow Camp, and Twin Springs, May-September.
- D. plumipes (Scop.) Curlew Valley Reservoir, Deep Creek, Rock Creek, south of Roy Summit, Salyer Cow Camp, Twin Springs, June-July, and Wildcat Hills, October.
- D. ramifer Lw. Curlew Valley Reservoir and Ntl. Grasslands, Holbrook, Juniper, Meadow Brook Creek, Rock Creek, south of Roy Summit, Salyer Cow Camp, Snowville, Twin Springs, June-September.
- D. renidescens M. & B. Curlew Valley Reservoir and Twin Springs, August-September.
- D. squamosus Van D. Twin Springs, June.
- D. suffavus Van D. Salyer Cow Camp, August.
- D. viridis Van D. South of Roy Summit and Twin Springs, June-July.
- Hercostomus unicolor Lw. Twin Springs, May.
- Hydrophorus graciosus Aldr. Holbrook, Snowville, Twin Springs, July-September.
- H. philombreus Whl. Snowville and Twin Springs, July-August, October.
- H. sodalis Whl. Curlew Valley Reservoir, Salyer Cow Camp, and Wildcat Hills, July-October.
- Parasyntormon hendersoni H. & K. numerous at Rock Creek, July 27, 1972.
- Pelastoneurus aldrichi Van D. Curlew Valley Reservoir and Kosmo, September.
- P. vagans Lw. Curlew Valley Reservoir, Meadow Brook Creek, meadows south of Roy Summit, Rock Creek, Salyer Cow Camp, Snowville, and Twin Springs, June-October.
- Scellus exustus (Wlk.) Curlew Valley Reservoir, Kelton Pass, Rock Creek, and meadows south of Roy Summit, June-July.

Sympycnus sp. Females only at Curlew Valley Reservoir and Snowville, June.

Syntormon sp. Females at Snowville, June.

S. dissimilipes Van D. Rock Creek, Salyer Cow Camp and Twin Springs, May-June.

S. strataegum (Whl.) Curlew Valley Reservoir, Rock Creek, and Twin Springs,
May-September.

Trypticus fraterculus (Whl.) Snowville, July.

FAMILY BRACONIDAE

This family is made up of parasites, largely primary. Some of the species are internal parasites, others external. The genera and species are listed alphabetically for convenience. All localities are in Curlew Valley of Utah and Idaho.

Agathis atripes Cress. Black Pine, Cedar Hill, Curlew Valley Reservoir, Holbrook, Ireland Canyon, Kelton, Locomotive Springs, Snowville, Stone and Wildcat Hills. Most were collected in September, often on Chrysothamnus in blossom, but one collection was made in May and one in October.

A. brevicornis (Mues.) Hansel Mountains, Holbrook and Holbrook Summit, August-October.

A. nigripes Cress. On Chrysothamnus at Cedar Hill, July 26, 1969.

A. sp. Black Pine and Holbrook. August-October.

Apanteles aristoteliae Vier. Kelton and Curlew Valley Reservoir, May-June.

A. laeviops Ashm. Stone, May 27, 1969.

A. neomexicanus Mues. South of Roy Summit and Salyer Cow Camp, July 23, 1971.

A. paranthrenidis Mues. Snowville, July 29, 1969.

A. spp. Other species were taken at Black Pine, Cedar Hill, Curlew National Grasslands, Curlew Valley Junction, Curlew Valley Reservoir, Holbrook Summit, Ireland Canyon, Kelton, Kelton Pass, Locomotive Springs, Snowville, Stone and Wildcat Hills, often on Chrysothamnus nauseosus or C. viscidiflorus, May-October.

Aspilota sp. Curlew Valley Reservoir, September 1, 1970.

Blacus sp. Curlew Valley Reservoir, December 16, 1969.

Bracon erucarum (Cus.) Black Pine, Cedar Creek, Curlew National Grasslands, Curlew Valley Reservoir, Hansel Mountains, Holbrook, Kelton Pass, Snowville and Stone, April-July, October, sometimes on Melilotus.

B. gelechia Ashm. Black Pine Mountain, Curlew Valley Reservoir, Holbrook, Kelton, Kelton Pass, Snowville and Stone, May-June, September.

B. hyslopi Vier. Curlew Junction, Rock Creek and Snowville, July-September.

B. tychii (Mues.) Holbrook Summit and Ireland Canyon, July-August.

B. spp. Black Pine, Cedar Hill, Curlew National Grasslands, Curlew Junction, Curlew Valley Reservoir, Holbrook, Holbrook Summit, Ireland Canyon, Kelton, Kelton Pass, Salyer Cow Camp, Snowville and Stone, April-October.

Chelonus (Microchelonus) cylindricus McComb. Holbrook on Chrysothamnus viscidiflorus, September 8, 1971.

C. (Chelonus) sericeus (Say) Cedar Hill, Curlew Valley Reservoir, Hansel Mts., Holbrook, Holbrook Summit (6110' elev.), Ireland Canyon and Kelton, August-September.

C. (Chelonus) spp. Cedar Creek, Curlew Valley Reservoir, Holbrook, Holbrook Summit, Ireland Canyon, Kelton, Kelton Pass, Locomotive Springs, south of Roy Summit, Salyer Cow Camp, Snowville and Twin Springs, June-September.

C. (Microchelonus) spp. Cedar Hill, Curlew Valley Reservoir, Holbrook, Kelton, Kelton Pass, Locomotive Springs, Snowville, Stone and Wildcat Hills, June-September.

Chorebus sp. Curlew Valley Reservoir, Holbrook, Rock Creek and Stone, June-August.

Chelinidea sp. Curlew Valley Reservoir, May 27, 1969.

Crassomicrodus sp. Stone, July 27, 1969.

Cremnops californicus (Morr.) Kelton and Locomotive Springs, June-July.

Dacnus sp. Curlew Valley Reservoir, May.

Iphiulax sp. Curlew Valley Reservoir, September.

Liophron sp. Holbrook and Stone, May 16, 1969.

Macrocentrus affinis Mues. Snowville, July, September.

M. sp. Kelton, June 30, 1969.

Meteorus leviventris (Wesm.) Curlew Valley Reservoir, Kelton and Snowville,
June-August.

M. spp. Kelton, Salyer Cow Camp and Snowville, June-July.

Microctonus spp. Black Pine, Holbrook Summit and Ireland Canyon, May, July-
August.

Microplitis plutellae Mues. Cedar Creek, Curlew Junction, Hansel Mts., Hol-
brook, Holbrook Summit, Kelton, Kelton Pass, Snowville and Stone, April-
June.

M. spp. Holbrook, Kelton, Salyer Cow Camp, and Snowville, May-July.

Microtyphus sp. Curlew Junction, May.

Opius spp. Black Pine, Curlew Valley Reservoir, Holbrook, Kelton and Snowville,
March, May-September.

Orgilus ferus Mues. Holbrook, Kelton, Kelton Pass, Snowville and Stone, May-
July.

O. spp. Curlew Junction, some on Chrysothamnus nauseosus, June, September.

Parahormius sp. Holbrook, August 18, 1971.

Phaenocarpa sp. Curlew Valley Reservoir and Snowville, June, August.

Rogas terminalis (Cress.) Snowville, July 25, 1971.

R. sp. Hansel Mts., Locomotive Springs, and Snowville, May, July.

Tetrasphaeropyx sp. Curlew Valley Reservoir, May 31, 1969.

Triaspis sp. Curlew Valley Reservoir, June.

Trioxys sp. Stone, May 16, 1969.

Vipio coloradensis Ashm. Holbrook and Kelton, July-August.

V. sp. Cedar Hill and Kelton, June-July.

Zelee mellea (Cress.) Curlew Valley Reservoir and Locomotive Springs, July,
September.

Reference

Knowlton, G. F. 1971. Some Diptera of Curlew Valley. Utah State University Ecology Center, Terrestrial Arthropod Series No. 3, 4 pp.