

CHECKLIST OF CANADIAN AMBER INCLUSIONS IN THE CANADIAN NATIONAL COLLECTION OF INSECTS.

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Canadian amber was formed approximately seventy to ninety million years ago. Sap, oozing from trees, trapped insects, seeds, and other detritus. Over the centuries, the forests were buried and the sap hardened into amber. Amber is the fossilized resin of ancient trees that forms through a natural polymerization of the original organic compounds (Susie Ward Aber *in* Welcome to the World of Amber, Amber Homepage).

It is believed that the Cedar Lake amber originated from Cretaceous strata in southern Alberta and Saskatchewan and was transported to Cedar Lake by the Saskatchewan River and its tributaries. The amber inclusions cited as being from “nr. Medicine Hat” were collected at Grassy Lake, Alberta. Canadian amber has been reported from Queen Charlotte Islands, British Columbia, mainland British Columbia, Yukon Territory, Northwest Territories, Alberta, Saskatchewan, Manitoba, and Quebec (McAlpine and Martin, 1969).

The Canadian Amber Collection of 1281 inclusions is housed in the K. W. Neatby Building on the Central Experimental Farm in Ottawa, Ontario, Canada. Many are type specimens and a fair number are not identified at this time. Approximately 200 specimens are presently in the hands of specialists in the process of being identified. The notation “C. A. S.” is an acronym for Canadian Amber Specimens.

The important task of identifying the un-described species and of relating them to existing species is best done by experts on the groups concerned. Most of the material mentioned is available to qualified specialists.

The primary types in the Canadian National Collection are listed in a separate section at the end of this document.

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CANADIAN AMBER SPECIMENS

ACARINA

IDENTIFICATION: Acarina - C. A. S. # 1.

DETERMINATION: J. F. McAlpine.

COLLECTED: Cedar Lake Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: A very tiny piece containing a very small specimen. This piece, $3/16'' \times 1/8'' \times 1/32''$, is irregular with a few dark orange lines and one black line (crooked) in the end opposite the specimen. The specimen is closer to the surface opposite the flat surface.

CONDITION: The entire specimen is preserved in poor condition.

IDENTIFICATION: Acarina - *Erythraeidae* (larva) - C. A. S. # 2.

DETERMINATION: J. F. McAlpine.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: This piece, $11/32'' \times 1/4'' \times 1/8''$, is pointed at one end opposite a rounded end. A crack runs across one section of the piece above which the specimen is found. The centre areas of the piece are clear except for one air bubble below the crack.

CONDITION: The entire specimen is preserved in poor condition.

IDENTIFICATION: Acarina - Mite?; Aphid? - C. A. S. # 4c.

DETERMINATION: R. Richards, July 1972.

COLLECTED: Cedar Lake Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: This is a tiny piece, $5/32'' \times 5/32'' \times 1/8''$, like a cube that has been roughly broken diagonally. The darker colours of this rough side hold the specimen.

CONDITION: Preservation of this specimen is poor.

IDENTIFICATION: Acarina - Oribatid - C. A. S. # 33.

DETERMINATION: ?

COLLECTED: Grassy Lake, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A long thin piece, $7/16'' \times 3/16'' \times 1/8''$, flat and polished on two sides with one of these (smooth length) sides with a fragment broken out of it. The specimen lies just below this chip along the crack that divides the piece in half. The piece contours to a blank point at one end and an orange area extends lengthwise through most of the piece.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Acarina - C. A. S. # 38b.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A rough triangular piece, $1/4'' \times 9/32'' \times 9/32'' \times 1/8''$, flat and polished on one side, with the specimens (easily seen with naked eye) trapped in the broken-off side. The

smaller specimen is in the legs of the larger one. A crack cuts across one corner of the triangle ending up at the specimens.

CONDITION: Excellently preserved.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 59.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A very small, thin triangle, $7/32" \times 7/32" \times 7/32" \times 1/16"$, with two straight sides and a third slightly curved along which the specimen clearly lies. One of the two large surfaces is flat and polished and the piece is relatively clear except for some bubbles in the middle and two grooves on the large rough surface.

CONDITION: This specimen is in excellent condition.

IDENTIFICATION: Acarina: Oribatei - **C. A. S. # 62.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A very tiny piece, $5/32" \times 3/32" \times 1/32"$, clear except for the specimen. It is flat and polished on one side that "folds" into a tiny, smooth, polished surface on one side right at the specimen. The piece is almost oval but wider at one end, contouring at the other.

CONDITION: The specimen is poorly preserved.

IDENTIFICATION: Acarina - **C. A. S. # 65.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1950 by R. D. Bird and W. J. Brown .

DESCRIPTION: This almost triangular piece, $7/16" \times 11/32" \times 9/32" \times 1/8"$, has two flat and polished surfaces with a large fault line running from the one end of the small, smooth surface down through the heart of the piece. The specimen lies near the surface of the large smooth side near the corner opposite the small smooth side.

CONDITION: This specimen is fairly well preserved.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 103.**

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, $9/32" \times 1/4" \times 3/32"$, is flat and polished on its two large sides with one pointed corner and the other three rounded. The specimen lies in an adjacent corner to the pointed one. There are three larger fault areas towards the middle of the piece surrounding the piece but the rest of the piece is fairly clear yellow with some rounded orange areas.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 113.**

DETERMINATION: J. F. McAlpine 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost triangular shaped piece, $7/16" \times 5/16" \times 9/32" \times 7/32"$, is flat and polished on all but the longest side which is slightly curved. The first large specimen is in the point of the triangle partially lodged in a bubble and near one of the large flat surfaces. The other specimen is down in the middle of the piece towards the curved unpolished side and close to the opposite large flat surface to that of the first specimen. There are specks of debris scattered in this clear piece. One piece of debris juts into the interior from the slight groove in the curved side with leg-like appendages to it.

CONDITION: Very good condition.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 117.**

DETERMINATION: J. F. McAlpine, August 1972

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This is a large, flat piece, almost triangular in shape, $1 \frac{1}{16}" \times 15/16" \times 7/8" \times 3/16"$. One side of the triangle has a notch in it with the rounded point opposite this side being closest to the tiny specimen. A large orange line or crack cuts off this corner and near one end of this line is found the specimen very close in colour to the line itself.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 118.**

DETERMINATION: J. F. McAlpine, August 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This $3/4" \times 17/32" \times 1/4"$ piece is almost flat on one side and rounded on the other, polished all around, with a contour from a smooth almost pointed end to the wider side of the wedge. The specimen is found near the middle of the piece and almost $1/4$ of the way from the point.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 120.**

DETERMINATION: J. F. McAlpine, August 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This larger piece, $9/16" \times 7/16" \times 3/16"$, is flat and polished on two large sides and one smaller side. The two specimens are right near each other close to the smaller flat side about $1/3$ of the way across from the rounder end of the piece. There are eight or nine other dark specks in this piece of whirling orange and yellow.

CONDITION: Good condition.

IDENTIFICATION: Acarina: Mite? - **C. A. S. # 121a.**

DETERMINATION: M. MacKay.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: 121a - A pointed wedge shaped piece $3/8" \times 7/32" \times 3/16" \times 7/32"$, with the very tiny specimen located where the orange area that sweeps the length of one side of the piece meets the clouded remainder. The specimen is closest to the pointed end opposite

the flat triangular end about 1/3 of the way from the point. All side are polished.

CONDITION: Specimen in fairly good condition.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 126.**

DETERMINATION: K. G. A. Hamilton, November 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, 9/16"x 1/4"x 3/16", is flat and polished on two length sides and rounded smooth on a third coming to blunted points at each end. The specimen lies near the pointier end about the middle just beside a crack that runs the width of the piece on one of the flat polished sides.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Acarina: Mite (hard) - **C. A. S. # 156.**

DETERMINATION: J. F. McAlpine, May 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This almost rectangular piece, 15/32"x 11/32"x 5/32", is flat and polished on one large length side. The specimen lies very near the opposite surface to this about one third the distance from the widest end of this fairly clear, orange and yellow piece.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Acarina: Mite? - **C. A. S. # 157.**

DETERMINATION: J. F. McAlpine, May 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This almost rectangular piece, 5/8"x 3/8"x 9/32", comes to an extended and blunted point at one corner and has an "H" shaped crack on one large length side. The specimen is on the opposite side to this "H" in the lengthwise adjacent corner to the point down a little ways from the surface.

CONDITION: This specimen is in good shape.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 162.**

DETERMINATION: J. F. McAlpine.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This 5/16"x 5/16"x 3/16" piece holds the specimen in the opposite corner to the thickest corner. A pattern of faults leads from the specimen to an adjacent corner with one of these faults cutting off the specimen's corner.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 167.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This 23/32"x 13/32"x 7/32" piece, has one large length side polished and almost flat. The specimen is on the opposite side in the narrower end in the corner farthest away from the widest end.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Acarina: Mite: Erytostigmata (Oribatei): Northroidea: Hermanniidae - **C. A. S. # 193.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This flat 7/16"x 5/16"x 1/16" piece is wider at one end than the other and fairly flat and polished on its two large length sides. The specimen lies near the surface of one of the flat sides between the short width-wise parallel grooves.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Acarina - Mite and spores? Or seeds? - **C. A. S. # 206.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: ~~COLLECTED:~~ Near Medicine Hat, Alberta, August 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This yellow and orange 3/8"x 9/32"x 1/8" piece is flat and polished on two sides and broken off at one end. The specimen lies in the middle in an orange area that runs the length of the smaller flat side between this side and the rows of tiny bubbles in the centre of the piece. Another interesting specimen is found just the other side of these bubbles closer to the rounded opposite side to the large flat surface.

CONDITION: These specimens are in good shape.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 207.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, August 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This large 13/16"x 9/16"x 3/16" piece is flat and polished on two large sides and one smaller length side. One of the larger sides has two parallel grooves crossed by a third which frames the specimen along with the smaller flat side. The piece is filled with debris.

CONDITION: This specimen is in fairly good shape.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 212.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This large fairly clear yellow piece, 7/16"x 1/2"x 1/4", is rounded and polished. A part of one of the large sides is flat with two parallel grooves in it between which is found the specimen near the surface.

CONDITION: This is a good specimen.

IDENTIFICATION: Acarina - **C. A. S. # 218.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This larger piece, $3/4$ "x $19/32$ "x $1/4$ ", is smooth, curved and polished on much of its two large sides with a fairly wide clear yellow area running the width and thickness of the middle of the piece. Close to the largest polished surface down at one end of the yellow band near the length side with the groove in it is found the first specimen. Looking through the opposite side of the piece in the middle of the yellow band three other specimens are found at different depths in the amber. This same sides chips off to a narrower thickness at one end revealing a fifth tiny specimen near the surface of another smaller, lighter yellow area near where the groove mentioned above terminates at one end.

CONDITION: All these specimens are well preserved.

IDENTIFICATION: Acarina - C. A. S. # 236.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This lump, $3/8$ "x $7/32$ "x $7/32$ ", curves to a blunt point from a thick rounded end. Two of the three length sides have chips or grooves and the third, which holds the specimen near its surface, is smooth and polished. The specimen lies about one third of the way from the thick end in a clear yellow area just off the tip of an orange area.

CONDITION: This is a good specimen.

IDENTIFICATION: Acari? - C. A. S. # 246.

DETERMINATION: A. Rasnitsyn 1988.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This clear yellow $9/6$ "x $1/4$ "x $1/8$ " piece is straight and polished along one narrow length side opposite to the side the specimen is trapped in at almost the half-way point and very near the surface. There is only one other speck of debris in the piece down toward the one end.

CONDITION: This is only a fair specimen.

IDENTIFICATION: Acarina: Mite? - C. A. S. # 254.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $1/8$ " x $11/32$ " x $1/2$ ", is rectangular but for one corner. The specimen is seen in the corner opposite the corner that juts out.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite - C. A. S. # 275.

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: On one face of this piece, $3/8$ " x $1/4$ " x $5/32$ ", has two sides meeting in an edge. The specimen is in the smoother side in a corner away from the edge separating the two sides.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 296.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One specimen lies in the corner of the flattest side of this 11/16" x 19/32" x 1/16" piece. Two other specimens lie in the centre of the opposite side.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Prostigmata: Anystidae? or Erythracarinae? - **C. A. S. # 298.**

DETERMINATION: E. E. Linquist, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this tiny clear piece.

CONDITION: Good.

IDENTIFICATION: (a) - Acarina: Mite: Prostigmata: Bdellidae? - **C. A. S. # 300.**

(b) - Acarina: Mite: Prostigmata: Tydeidae or Euspodidae.

(c) - Acarina: Mite: Cryptostigmata.

DETERMINATION: E. E. Lindquist, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The smaller piece contains one specimen. The larger contains two specimens, a large one easily seen and a tiny one down at the pointed end of the piece.

CONDITION: All in good condition.

IDENTIFICATION: Acarina: Oribatidae (2 adults, 1 immature) - **C. A. S. # 314.**

DETERMINATION: C. M. Yoshimoto, 1973; Apocrita sedis - A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One specimen lies on the tip jutting out from the piece and the other three are near the centre of the piece.

CONDITION: 3 good, 1 poor.

IDENTIFICATION: Acarina: Cryptostigmata: Gymnodamaeidae? - **C. A. S. # 319.**

DETERMINATION: E. E. Lindquist, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This clear triangular piece has one large side. The specimen is in the corner opposite this side.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 327.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is located near the top of the bend in this boomerang-shaped piece.

CONDITION: Good.

IDENTIFICATION: Acarina: Cryptostigmata - **C. A. S. # 329.**

DETERMINATION: E. E. Lindquist.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Mites (2) - **C. A. S. # 331.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Both specimens easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Oribatidae - **C. A. S. # 332.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Prostigmata: Erythraeidae (larva) - **C. A. S. # 334.**

DETERMINATION: E. E. Lindquist, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One of the corners of this rectangular piece juts out. On the smallest side there are two brown patches coming from this corner on the surface. The specimen lies in the big head at the end of the larger thin patch.

CONDITION: Good.

IDENTIFICATION: Acarina: Mites (2) - **C. A. S. # 337.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily seen. Piece originally joined with **C. A. S. # 336.**

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Prostigmata or Mesostigmata - **C. A. S. # 351.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Oribatidae - **C. A. S. # 368.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Mesostigmata (2) - **C. A. S. # 379.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Oribatidae - **C. A. S. # 387.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Oribatei: Nothroidea - **C. A. S. # 399.**

DETERMINATION: E. E. Lindquist, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite: Oribatidae **C. A. S. # 407.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 419.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 423.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Fair.

IDENTIFICATION: Acarina: Mesostigmata - **C. A. S. # 432.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Prostigmata: Rhagidiidae? - **C. A. S. # 438.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 440.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located. Same piece as **C. A. S. # 442.**

CONDITION: Fair.

IDENTIFICATION: Acarina: Acaroidea?: Hypopus - **C. A. S. # 442.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located. Same piece as **C. A. S. # 440.**

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 444.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Acarina: Oribatuloidea - **C. A. S. # 455.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 456.**

CONDITION: Fair.

IDENTIFICATION: Acarina: Oribatuloidea - **C. A. S. # 457.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 459.**

DETERMINATION: J. Robillard, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae: Hermanelleidea - **C. A. S. # 487.**
DETERMINATION: J. Robillard, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 540.**
DETERMINATION: J. Robillard, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Acarina: Mesostigmata - **C. A. S. # 552.**
DETERMINATION: J. Robillard, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Acarina: Mesostigmata: Parasididae - **C. A. S. # 561.**
DETERMINATION: J. Robillard, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae: Nothroidea - **C. A. S. # 583.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Fair.

IDENTIFICATION: Acarina - **C. A. S. # 600.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimens easily seen.
CONDITION: Both specimens in good condition.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 606.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 607.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: All five specimens in good condition.

IDENTIFICATION: Acarina: Oribatidae: Liodidae - **C. A. S. # 613.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 624.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina? - **C. A. S. # 628.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Mesostigmata - **C. A. S. # 640.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Erythraeoidea - **C. A. S. # 647.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Eremaeoidea? (2) - **C. A. S. # 649.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Two mites in good shape but roach missing parts of body.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 657.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 659.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Mite - **C. A. S. # 661a.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 665.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 668.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae (4) - **C. A. S. # 682.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 690.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 696.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Prostigmata - **C. A. S. # 697.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Prostigmata: Bdellidae - **C. A. S. # 701.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Mesostigmata - **C. A. S. # 710.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Mesostigmata - **C. A. S. # 717.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 720.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 725.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina (6) - **C. A. S. # 727.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 736.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 738.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Oribatidae (2) - **C. A. S. # 767.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Erythraeidae na leptus - **C. A. S. # 768.**

Parasitic on Diptera: Ceratopogonidae: Forcipomyiinae.

DETERMINATION: J. F. McAlpine, P. T. Dang, and J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Acarina - **C. A. S. # 774.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 775.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Prostigmata - **C. A. S. # 777.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimens easily seen.
CONDITION: Fair.

IDENTIFICATION: Acarina: Nothroidea - **C. A. S. # 778.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Acarina: Prostigmata - **C. A. S. # 781a.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimens easily seen.
CONDITION: All specimens are in good condition.

IDENTIFICATION: Acarina: Erythraeidae: Leptus - **C. A. S. # 789.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Excellent.

IDENTIFICATION: Acarina: Oppioidea - **C. A. S. # 803.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Excellent.

IDENTIFICATION: Acarina: Damaeioidea - **C. A. S. # 806.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Excellent.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 811.**
DETERMINATION: J. Robillard, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimens easily seen.
CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 813.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 819.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Acarina: Bdellidae - **C. A. S. # 823.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Nothroidea: Camisiidae - **C. A. S. # 826.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 829.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 832.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 844.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 851.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Eupodidae (6) - **C. A. S. # 854.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 863.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 865.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 869.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 870.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: (a) - Acarina: Oribatidae (3) - **C. A. S. # 878.**

(b) - Acarina: Cunaxidae (1).

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Nothroidea: Camisiidae - **C. A. S. # 884.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae (7) - **C. A. S. # 901.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 903.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 905.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 909.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 912.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina: Damaeioidea - **C. A. S. # 916.**

DETERMINATION: J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Acarina (2) - **C. A. S. # 928c.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/2". One specimen is most visible on one side, the other on the other side.

CONDITION: One excellent, one good.

IDENTIFICATION: Acarina (2) - **C. A. S. # 954.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/2". The two Acarina are clumped near the Diptera.

CONDITION: Specimen in good condition.

IDENTIFICATION: Acarina - **C. A. S. # 961.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4", circular. Two legs directed forward, two backward.

CONDITION: Excellent.

IDENTIFICATION: Acarina: Oribatii - **C. A. S. # 964.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/4"x 3/8". Specimen is right on surface.

CONDITION: Excellent.

IDENTIFICATION: Acarina: Prostigmata: Parasitengona-a larva) - **C. A. S. # 971.**

DETERMINATION: I. Smith, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/2". The acarina is slender bodied, with long legs and head.

CONDITION: Excellent.

IDENTIFICATION: Acarina (2) **C. A. S. # 987.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/3". Contains at least seven male and female specimens of diptera, as well as two Acarina, found near cluster of three Diptera, best seen from the flattened surface.

CONDITION: Very good.

IDENTIFICATION: Acarina - **C. A. S. # 996.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/2", banded. Amber specimen on side.

CONDITION: Very good.

IDENTIFICATION: Acarina - **C. A. S. # 1024.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/8"x 1/3". Specimen is very small, with legs being just visible.

CONDITION: Very good.

IDENTIFICATION: Acarina - **C. A. S. # 1026.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 3/4".

CONDITION: Very good.

IDENTIFICATION: Acarina: Cryptostigmata: (Oribatei) - **C. A. S. # 1031.**

DETERMINATION: I. Smith, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 13/16" in diameter. Light amber. Specimen is very large for a mite.

CONDITION: Good.

IDENTIFICATION: Acarina: Oribatei - **C. A. S. # 1035.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 13/16"x 9/16". Specimen is located in a cloudy section of the amber.

CONDITION: Very good.

IDENTIFICATION: Acarina - **C. A. S. # 1039.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 3/16", light amber. Only four legs are visible, along with a transparent body.

CONDITION: Fair.

IDENTIFICATION: Acarina: Cryptostigmata: (Oribatei) - **C. A. S. # 1043.**

DETERMINATION: I. Smith, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/2", rounded. Specimen very large for a mite. Specimen just above some debris resembling a leaf.

CONDITION: Very good.

IDENTIFICATION: Acarina: Lachne group: Cinara? - **C. A. S. # 1046.**

DETERMINATION: I. Smith, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/8"x 5/8", dark amber. Specimen on its side, very small, legs just visible. Visible from small polished side.

CONDITION: Very good.

IDENTIFICATION: Acarina - **C. A. S. # 1057a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/8"x 3/4", from same stone as **C. A. S. # 1057b.** Contains thirteen Aphids, clustered in groups of three to five. The Collembola can be seen from the largest flat surface adjacent to the row of five Aphids. Also contains an Acarina in the rounded bulge of the stone.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 1060a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2". Contains three specimens - an Acarina in a bubble, an Aphid, and a female Chironomidae. The Diptera and Aphid being right next to one another.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 1061.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2", thin amber. Contains a male scale insect in one corner, two mites together but at different depths, and two or three spider legs on another side.

CONDITION: Very good and fair.

IDENTIFICATION: Acarina - **C. A. S. # 1062.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 3/8", very thin amber. Specimen quite large for a mite.

CONDITION: Very good.

IDENTIFICATION: Acarina: Mite - **C. A. S # 1064.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2". Contains a small mite near surface of one side, and an Aphid visible from the other side.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 1072.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 2/3", rounded. Specimen long and narrow, with most legs

visible.

CONDITION: Very good.

IDENTIFICATION: Acarina (4) - C. A. S. # 1076.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 7/8". A large white crack runs down the length of the stone.

Contains four specimens, two visible from each side. The large, white Acarina is on the side opposite the crack.

CONDITION: Good - very good.

IDENTIFICATION: Acarina - C. A. S. # 1077.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8", round, light amber. Specimen in corner, and is partially obscured by two large pieces of plant debris.

CONDITION: Good.

IDENTIFICATION: Acarina (immature) - C. A. S. # 1078b.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 7/8", crumbly piece. Specimens scattered throughout piece.

Two Aphids are together.

CONDITION: Fair - good.

IDENTIFICATION: Acarina? - C. A. S. # 1082.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 3/8", light amber. Specimen near side, only one leg is visible.

With segmented body.

CONDITION: Fair.

IDENTIFICATION: Acarina: Oribatid - C. A. S. # 1084.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 5/8". Specimen near edge, excellent view. Only three legs visible.

CONDITION: Excellent.

IDENTIFICATION: Acarina (3) - C. A. S. # 1087.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/3"x 1/2". Contains three specimens; two large ones in a line, and

one very small white coloured mite.

CONDITION: Two very good, one fair.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 1095.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 1 1/4". Near surface. Both antenna visible, with wings curved back. To the right is a Collembola - only one leg and both antennae visible. Just above it is a four legged mite.

CONDITION: Excellent.

IDENTIFICATION: Acarina - **C. A. S. # 1120.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3", very thin. Specimen near corner. Mite is fragmented, being long and thin in shape. Eight legs being visible.

CONDITION: Poor.

IDENTIFICATION: Acarina - **C. A. S. # 1135.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 5/8". Diptera's legs are twisted, wings are only somewhat visible. Acarina next to one of the Diptera's legs. Hymenoptera is above the Diptera, to the side, with both wings exposed.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 1136.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 3/8". Large mite in corner - Aphid sized, long bent legs clearly visible.

CONDITION: Very good.

IDENTIFICATION: Acarina - **C. A. S. # 1143.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/3", clear light amber. Medium sized pinkish coloured mite in centre of piece visible. Below it is visible a ribbon-like piece of plant fragment.

CONDITION: Excellent - photograph.

IDENTIFICATION: (a) - Acarina: Mite (adult) - **C. A. S. # 1147.**

(b) - Acarina (eggs) (3).

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/4", clear amber. Chironomid easily visible with naked eye.

Mite is on its side, has a curved back. What could possibly be three eggs are nearby.

CONDITION: (a) - Good.

(b) - Good.

IDENTIFICATION: Acarina - **C. A. S. # 1151.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3". Specimen near edge of amber. Specimen very flat. Four legs on one side clearly visible.

CONDITION: Excellent.

IDENTIFICATION: Acarina: Oribatei - **C. A. S. # 1153.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 13/16". Specimen in a swirl of plant debris. Specimen is very large for a mite, almost spider in size.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 1160b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 1/4". Ventral view visible from flat side. Specimen partially obscured by debris.

CONDITION: Excellent.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 1163d.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/3"x 1/3". Acarina very near surface. Three legs on one side are missing of this eight legged mite.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 1165.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 1/4". Near surface - contains an immature mite with three pairs of legs.

CONDITION: Very good.

IDENTIFICATION: Acarina - **C. A. S. # 1166.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 7/8". Specimen near surface - only four legs are intact - the other four are broken off and lying near the mite.

CONDITION: Fair.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 1172.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 7/16", irregular. Contains four Aphids, of which only three are easily visible. Two of the Aphids are obscured by a ball of dirt. All four Aphids are together. The Mite, an elongate specimen, is visible in one of the clear corners.

CONDITION: Fair.

IDENTIFICATION: Acarina: Mites (4) - **C. A. S. # 1182.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Contains four mites scattered throughout the piece. Two are damaged, both of these having a ring of debris around them. One is spider-like in appearance, the last mite having its legs curled at the end.

CONDITION: Two poor, two good - very good.

IDENTIFICATION: Acarina: Mites (2) - **C. A. S. # 1184.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 2/3", thin flat, lightly coloured amber. Contains fragments of four Aphids and two mites in varying conditions. Aphids are reddish tinged in colour.

CONDITION: Poor.

IDENTIFICATION: (a) - Acarina - **C. A. S. # 1185.**

(b) - Acarina?

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", irregular. Contains one small Aphid crawler, as well as one long-legged mite. Also present is what is probably a short-legged mite, or possibly an Aphid, at right angles to viewing surface.

CONDITION: Good - very good.

IDENTIFICATION: Acarina - **C. A. S. # 1191.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 3/4", round. Specimen near surface. Three legs are distinct, the rest of the specimen is badly distorted.

CONDITION: Poor - fair.

IDENTIFICATION: Acarina - C. A. S. # 1206.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece $2/3$ "x $2/3$ ". Contains a relatively large mite in amongst leaf debris.
Some legs are visible in this basically dorsal view.

CONDITION: Good - very good.

IDENTIFICATION: Acarina (3) - C. A. S. # 1209.

DETERMINATION: K. G. A. Hamilton and J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece $3/8$ "x $1/2$ ". Contains three mites and one Aphid. One mite near the edge is very long legged. Near this is the Aphid, a small, complete specimen. In another clear corner is an almost transparent mite. In another corner, somewhat hidden by polishing powder, is the last mite, a mite with a greenish tinge.

CONDITION: Very good.

IDENTIFICATION: Acarina - C. A. S. # 1215.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece $1/2$ "x $3/8$ ". Specimen lies parallel to band of debris in amber.
Specimen indistinct, all the legs are not visible.

CONDITION: Fair.

IDENTIFICATION: Acarina - C. A. S. # 1219.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece $2/3$ "x $1/2$ ", dark amber. Amber contains much plant debris. Also contains eight to ten small Aphids scattered throughout but concentrated on one side, and a small mite.

CONDITION: Good - very good.

IDENTIFICATION: Acarina - C. A. S. # 1220.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece $2/3$ "x $3/8$ ". Specimen is pinkish in colour, globular in shape and eight legged.

CONDITION: Very good.

IDENTIFICATION: Acarina (2) - C. A. S. # 1222.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece $1/2$ "x $1/2$ ". Contains skin of spider with one very large complete leg visible - the tarsi ending at the end of the piece. Also contains two mites.

CONDITION: Good.

IDENTIFICATION: Acarina: Mite - C. A. S. # 1230.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 3/8". Piece has been cut from a larger piece. Aphid specimen near cut face. Specimen's body is black, its four visible legs are pink; some are detached. Also present is a mite, near rounded surface.

CONDITION: Good.

IDENTIFICATION: Acarina - C. A. S. # 1235.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 2/3"x 1/2". Mite is eight legged. A small black ball of debris lies near the mites head.

CONDITION: Good.

IDENTIFICATION: Acarina - C. A. S. # 1237.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 2/3"x 1/2". Specimen near side. An eight legged mite. All the legs are together, legs are clearly multi-segmented.

CONDITION: Very good.

IDENTIFICATION: Acarina - C. A. S. # 1238.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 1/2"x 5/8". Contains a large mite, very near the surface, eight legged, mouthparts visible.

CONDITION: Very good.

IDENTIFICATION: Acarina - C. A. S. # 1252.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 3/4"x 1/4". Amber is dark on one half, light on the other. Specimen in corner, eight legged mite, mouthparts visible.

CONDITION: Very good - excellent.

IDENTIFICATION: Acarina - C. A. S. # 1255.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/8"x 3/4". Specimen is six legged, legs are curled in.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 1257.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/4"x 1/4". Very small mite, centrally located, six-legged.

CONDITION: Good.

IDENTIFICATION: Acarina (2) - **C. A. S. # 1261.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/8"x 1/2". One mite is near broken end, the other is more towards the centre. Both mites are near the surface, both are very small and indistinct.

CONDITION: Good.

IDENTIFICATION: Acarina - **C. A. S. # 1262.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 1/2". Globular-shaped mite has only four legs visible.

CONDITION: Good - very good.

IDENTIFICATION: Acarina - **C. A. S. # 1265a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/8"x 1/3". Specimen in a leaf filled piece, near the side. Only three to four legs are visible on this very small mite.

CONDITION: Good.

IDENTIFICATION: Acarina (fragments) - **C. A. S. # 1271.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 3/4". Contains a large ant, dorso-ventral view. Just above the ant is a large termite, on the surface. Legs of termite very clear. Mite fragments throughout.

CONDITION: Fair.

IDENTIFICATION: Acarina: Oribatidae - **C. A. S. # 1273.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/4"x 1/4". Mite is near the side. Eight legs are visible, very small head.

CONDITION: Very good.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 1274.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 3/8". Mite on surface. Small mite with only one leg visible.

CONDITION: Fair - good.

IDENTIFICATION: Acarina: Mite - **C. A. S. # 1276.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/8"x 1/3". Specimen obscured somewhat by bubbles. Six-legged mite, hump-backed, greenish tinged.

CONDITION: Very good.

ARACHNIDA

IDENTIFICATION: Arachnida: Aranèida - **C. A. S. # 13.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: Rectangular shaped droplet with one end rounded, 3/8"x 3/16"x 1/8". The specimen is the dark spot at the squared-off end plainly visible with the naked eye. The specimen is found with a piece of dirt and a fault. One of the large surfaces as well as two of the other surfaces are polished flat.

CONDITION: The specimen is excellently preserved.

IDENTIFICATION: Arachnida: Aranèida - **C. A. S. # 14.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A droplet-like piece, 13/32"x 7/32"x 3/32", flat and polished on one of the largest sides. The specimen along the other unpolished large side on the surface about one third of the way between the squared-off end of the piece and the rounded end. The specimen is the only dark spot in the piece.

CONDITION: Poor to fair preservation of this specimen. The abdomen is partially missing.

IDENTIFICATION: Arachnida: Aranèida - **C. A. S. # 15.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A wedge-like piece, 5/16"x 1/4"x 5/32" with the two largest sides of the piece pointing to the wedge being polished. One of these sides is slightly curved while the other is flat. The specimen is just above the point of the wedge near a rough side.

CONDITION: Good.

IDENTIFICATION: Arachnida: Aranèida - **C. A. S. # 16.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A small square piece, 1/8"x1/8"x1/16", with one tiny corner roughly broken off. One of the large sides is flat and polished and the piece is filled with little bubbles. The specimen is lodged in a corner adjacent to the broken corner.

CONDITION: The specimen is well preserved.

IDENTIFICATION: Arachnida: Aranèida - C. A. S. # 17.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A close to oval shaped piece, 5/16"x1/4"x1/8", with the specimen trapped on the surface of one of the largest sides, opposite the flat polished side. Off the flat side there is a little ridge running the full length of the piece.

CONDITION: The specimen is in fair condition with the abdomen partially missing.

IDENTIFICATION: Arachnida: Aranèida - C. A. S. # 18.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This small piece is almost square, 3/16"x 5/32"x 1/8", with one of the 3/16"x 5/32" sides rough and the other one flat and polished. The specimen is on the surface of the rough side. There is a black and orange area that divides the piece in half, running parallel to the 3/16" side.

CONDITION: There are three or four legs preserved in fair condition.

IDENTIFICATION: Arachnida: Aranèida (legs) - C. A. S. # 19.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, 7/16"x 3/16"x 1/8" is rough and lumpy. The specimen is right on the surface of one of the largest sides, in the middle.

CONDITION: The two legs to be seen are in poor condition.

IDENTIFICATION: Arachnida: Aranèida (legs) - C. A. S. # 20.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small "lump" of a piece, 1/4"x 5/32"x 1/8", flat on one of the large sides. The specimen is entombed in the squarest corner. The piece is rounded at one end, contouring to a point at the other end.

CONDITION: The full specimen is in good condition.

IDENTIFICATION: Arachnida: Argiopoidea: Theridiidae - C. A. S. # 21.

DETERMINATION: R. Leech, 1967.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A tiny droplet, 3/16"x 3/16"x 1/8", flat on one of the larger sides, holding the

specimen near the middle of the piece, partially encased in a crack or fault and partially surrounded by bubbles. There is another darker area of bubbles toward the squared end of the piece.

CONDITION: The full specimen is well preserved.

IDENTIFICATION: Arachnida: Araneoidea - **C. A. S. # 22.**

DETERMINATION: R. Leech, 1967.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A long, thin, clear piece, 7/16"x 1/16"x 1/16", squared at one end and rounded at the other. The specimen lies about 1/3 the way down from the rounded end with what looks to be a spore close by above it and just below it.

CONDITION: The whole specimen is preserved in good condition.

IDENTIFICATION: Arachnida: Linyphiidae (Argiopoidea) - **C. A. S. # 23.**

DETERMINATION: R. Leech, 1967.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece, 1/4"x 3/16"x 1/8", has two rounded humps along one side, one of them making a perfect circle viewed from it's side. The piece is divided in half by a dark peaked area below which is the clear yellow area holding the specimen along one corner of the piece.

CONDITION: This whole specimen is preserved well.

IDENTIFICATION: Arachnida (legs) - **C. A. S. # 32A.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A large piece, 27/32"x 5/8"x 1/4", flat and polished on one side exposing the whole interior. One specimen is near the middle of the piece on the surface of the large rough side and the other specimen is below the first, close to the large flat side where it meets the bottom of the piece. The circumference areas are darker.

CONDITION: The first specimen described is only a set of legs with the rest of the specimen missing. The legs are preserved fairly well. The second specimen is complete and well preserved.

IDENTIFICATION: Arachnid (legs) - **C. A. S. # 60.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A clear squared piece, 3/16"x 5/32"x 3/32", flat and polished on all but one of the sides with the first specimen seen with the naked eye in the very middle of the piece and the second specimen directly above the first, lying exposed from the only rough surface.

NOTE: Specimen sent to Dr. D. Russel, Canadian National Museum, June 27, 1973 (for display purposes).

CONDITION: The first specimen is excellent! The second is some legs (cut away from a body

by the side of the piece) in good condition.

IDENTIFICATION: Arachnida: Aranèida: Aransidae - **C. A. S. # 63.**

DETERMINATION: R. Leech, 1967.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small, round sided, flat piece with a diameter of 3/16" and a height of 3/32".

The specimen is plainly visible in this clear piece near the surface of one of the two flat and polished sides. There is one orange band running the height of the piece and cutting off a portion of the circumference, and the entire outside of the circle has a darker tint than the clear interior.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Arachnida - **C. A. S. # 75.**

DETERMINATION: R. Leech 1971.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A tiny cube-like piece, 3/32" square by 1/16" deep, clear yellow with a light orange area in one half. All side are clear, flat, and polished, framing the specimen perfectly in the centre of the piece.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 104.**

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost cubic piece, 3/16"x 3/16"x 1/8", holds the specimen clearly in the middle of it. Above the specimen the side of the piece is lined with a dark area of parallel lines. There are bubbles and debris scattered throughout the rest of the piece.

CONDITION: This specimen is in very good condition.

IDENTIFICATION: Arachnida: Spider? (2 legs) - **C. A. S. # 107.**

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This very tiny triangular piece, 3/16"x 5/32"x 1/8"x 1/16", is flat and polished on one side and fairly clear yellow throughout. The specimen lies along the longest side of the triangle near the large rough rounded surface and beside an orange line which runs from the longest side of the triangle towards the middle of the piece.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 113.**

DETERMINATION: J. F. McAlpine 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost triangular shaped piece, 7/16"x 5/16"x 9/32"x 7/32", is flat and polished on all but the longest side which is slightly curved. The first large specimen is in the point of the triangle partially lodged in a bubble and near one of the large flat surfaces.

The other specimen is down in the middle of the piece towards the curved unpolished side and close to the opposite large flat surface to that of the first specimen. There are specks of debris scattered in this clear piece. One piece of debris juts into the interior from the slight groove in the curved side with leg-like appendages to it.

CONDITION: These two specimens are in very good condition.

IDENTIFICATION: Arachnida: Spider - C. A. S. # 123.

DETERMINATION: M. MacKay, 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This larger rectangular piece, 1/2"x 13/32"x 7/32", is smooth and polished on most sides with the specimen situated at the narrowest end opposite the end with the groove in it. It is very easily seen in the clear yellow part of the piece.

CONDITION: This piece is in excellent condition.

IDENTIFICATION: Arachnida: Spider (legs) - C. A. S. # 128.

DETERMINATION: J. F. McAlpine, May 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: An almost a rectangular shaped piece, 3/8"x 5/16"x 5/32", with the specimen located in the squarest corner. Two dark "droplets" are near the irregular edge. The specimen is opposite these spots along the long smooth side.

CONDITION: Three complete legs in good condition are visible as well as parts of another leg.

IDENTIFICATION: Arachnida: Spider - C. A. S. # 129.

DETERMINATION: J. F. McAlpine, May 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: Using the straightest, most regular side as a base (9/16"), the height is 9/16" and the specimen is to one side of the peak at the top and very close to the surface. Elongated dark areas lie below the specimen and to the side as well as dark areas in the opposite upper sections of the piece.

CONDITION: The entire specimen is in good condition with two legs folded and six clearly exposed.

IDENTIFICATION: Arachnida: Spider - C. A. S. # 147.

DETERMINATION: J. F. McAlpine, May 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This rounded triangle, 9/16"x 1/2"x 7/16"x 3/16", is flat and polished on one side at the end of which is found the specimen close to the opposite surface. The piece is clear except for the yellow, orange, and brown debris that extends through the bottom half from the middle to the point holding the specimens.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Arachnida: Spider or insect (legs) - C. A. S. # 154.

DETERMINATION: J. F. McAlpine, May 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This long, bluntly pointed piece, $9/16" \times 11/32" \times 1/4"$, has the specimen trapped in the middle of the wide end. The piece is cloudy orange and yellow with little debris.

CONDITION: These legs are in good condition broken away from the rest of the specimen by the end of the piece.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 159.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This $1/2" \times 3/8" \times 1/4"$ piece has one long curved side running diagonally from opposite corners on one side. One specimen is found about the middle bend of this side deep in the piece and another lies at the corner at the end of the longest arm of this side. The third specimen is near the second but along the end side.

CONDITION: These specimens are in good shape.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 192.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This piece, $1/2" \times 11/32" \times 7/32"$, is flat and polished on three sides and has a rounded chip out of one end. The specimen lies half-way between this chip and the groove on one of the large flat sides along a straight side.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 197.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This fairly clear yellow broken cube, $3/16" \times 3/16" \times 3/16"$, is flat and polished on two sides with one corner chipped off to the middle of the piece. The specimen lies on the surface made by the chip in the centre of the piece.

CONDITION: This is a well preserved specimen.

IDENTIFICATION: Arachnida: Spider? (2 legs only) - **C. A. S. # 209.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: In this tiny clear orange and yellow piece, $3/16" \times 7/32" \times 7/32" \times 1/16"$ the specimen lies along one of the large surfaces beside a few bubbles in the yellow half of the triangle. It is the only debris.

CONDITION: What remains of this specimen is well preserved.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 213.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost wedge shaped piece, $1/4" \times 5/16" \times 1/4"$, has a groove in the rough end contouring with smooth and polished sides to a rounded point. The specimen is in this point by the only chip in the regular surface.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 215.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This fairly smooth and polished $13/32" \times 5/16" \times 11/32" \times 1/8"$, triangle has one rounded corner marking the middle of the piece. Toward the centre of the piece from this corner lies the specimen easily seen close to the roughest large side of the piece.

CONDITION: This is a good specimen.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 219.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This pointed $7/16" \times 7/32" \times 3/16"$ piece is polished on all three length sides, two flat and one rounded. The specimen is clearly seen in the heart of this orange-yellow striped piece half-way between the point and the opposite round end.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 244.**

DETERMINATION: Gillespie, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This fairly clear yellow piece, $1/2" \times 1/2" \times 1/8"$, is almost square, bulging at one end with chips out of the opposite end. The specimen lies near the bulging side in the corner opposite the nearest corner to the chips in the other side. On one of the large surfaces there is a chip right over the specimen.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Arachnida: Spider legs? - **C. A. S. # 296.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One specimen lies in the corner of the flattest side of this $11/16" \times 19/32" \times 1/16"$ piece. Two other specimens lie in the centre of the opposite side.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 312.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this large clear piece.

CONDITION: Good.

IDENTIFICATION: Arachnida - C. A. S. # 341.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. This piece was joined to C. A. S. # 340 and C. A. S. # 342.

CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida - C. A. S. # 353.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is located near the longer end of this trapezoidal piece.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida: Erigonidae - C. A. S. # 376.

DETERMINATION: J. Redner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - C. A. S. # 426.

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as C. A. S. # 427.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - C. A. S. # 431.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida - C. A. S. # 434.

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - C. A. S. # 435.

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as C. A. S. # 435.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 475.**

DETERMINATION: J. Redner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 488.**

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida: (chelicera & leg)-**C. A. S. # 541.**

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 564.**

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 569.**

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 572.**

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 578.**

DETERMINATION: C. Dondale, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida? (spider legs) - **C. A. S. # 587.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 591.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Excellent.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 596.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 604.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida (spider legs) - **C. A. S. # 623.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida: (spiders (2)) - **C. A. S. # 630.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.
DESCRIPTION: Specimens easily seen.
CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 675.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida? - **C. A. S. # 687.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 711.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 714.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida: Ctenidae - **C. A. S. # 730.**

DETERMINATION: C. C. Dondale, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent (photographed by Thos. Stovell, May 26 1976).

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 750.**

DETERMINATION: C. C. Dondale, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 754.**

DETERMINATION: C. C. Dondale, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 762.**

DETERMINATION: C. C. Dondale, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 837.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimens easily seen.
CONDITION: Good.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 857.**
DETERMINATION: C. C. Dondale, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen. Photographed by Thos. Stovell, May 26, 1976.
CONDITION: Excellent.

IDENTIFICATION: Arachnida: Araneida - **C. A. S. # 887.**
DETERMINATION: C. C. Dondale, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Poor.

IDENTIFICATION: Arachnida - **C. A. S. # 930.**
DETERMINATION: J. F. McAlpine, 1975.
COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.
DESCRIPTION: 3/8"x 5/8" piece of light amber. Most of abdomen ground away - only legs visible.
CONDITION: Fair.

IDENTIFICATION: Arachnida - **C. A. S. # 960.**
DETERMINATION: J. F. McAlpine, 1975.
COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.
DESCRIPTION: In piece 3/4"x 1/3". Specimen consists of two legs and several small parts.
CONDITION: Fair.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 965.**
DETERMINATION: J. F. McAlpine, 1975.
COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.
DESCRIPTION: In Piece 1/4"x 3/4". Amber contains three Trichoptera; one whole specimen, one badly mangled, one with head and antennae good, and one with tips of wings, abdomen, and five legs. The piece also contains one spider.
CONDITION: Very good.

IDENTIFICATION: Arachnida: Erigonidae? - **C. A. S. # 997.**
DETERMINATION: C. C. Dondale, 1975.
COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/3". Left front leg extended farther than all other legs.

CONDITION: Excellent. Photographed by Tom Stovell, May 26, 1976.

IDENTIFICATION: Arachnida: Araneidae? - **C. A. S. # 999.**

DETERMINATION: C. C. Dondale, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2", round clear amber.

CONDITION: Excellent.

IDENTIFICATION: Arachnida: Theridiidae? - **C. A. S. # 1007.**

DETERMINATION: I. Smith, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/16"x 2/3", light amber. Specimen is at the tip of one end, with legs pulled in.

CONDITION: Excellent (photographed by Thos. Stovell).

IDENTIFICATION: Arachnida (legs) - **C. A. S. # 1010.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 5/8". Contains three left, and part of a fourth, legs of a spider, right on the surface - white in colour - Aphid is visible on flat side, being parallel to surface.

CONDITION: Good.

IDENTIFICATION: (a) - Arachnida (leg) - **C. A. S. # 1021.**

(b) - Spider parts.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4" rounded semi-circular. Leg in four segments, is outstretched and covered with hair. Also contains parts of spider.

CONDITION: Excellent.

IDENTIFICATION: Arachnida - **C. A. S. # 1045.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 2/3". Specimen is fairly large, with all its legs pulled in towards itself.

CONDITION: Very good.

IDENTIFICATION: Arachnida - **C. A. S. # 1058.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 3/8". Spider in the corner. Amber contains considerable small

plant debris.

CONDITION: Excellent.

IDENTIFICATION: Arachnida - C. A. S. # 1061.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2", thin amber. Contains a male scale insect in one corner, two mites together but at different depths, and two or three spider legs on another side.

CONDITION: Good.

IDENTIFICATION: Arachnida: Spider - C. A. S. # 1069.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 3/4". Large spider in centre of piece - tips of two of its legs broken off near by. An Aphid is located on the opposite side in a dark bubble.

CONDITION: Very good.

IDENTIFICATION: Arachnida (legs) - C. A. S. # 1070.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/3". Contains three sets of legs, two together, off to the side. The spider legs have some abdomen attached. The set nearest the spider is also held together, but the third set is somewhat scattered.

CONDITION: Good.

IDENTIFICATION: Arachnida - C. A. S. # 1085.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2". Specimen is quite small. All legs are visible, light red in colour.

CONDITION: Excellent.

IDENTIFICATION: Arachnida - C. A. S. # 1086.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/4", dark amber. Specimen on surface - part of abdomen obscured in top view by a depression. Detail on legs excellent.

CONDITION: Very good.

IDENTIFICATION: Arachnida: Spider - C. A. S. # 1141.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 3/4", dark amber. Specimen easily visible with naked eye.

Large spider is centrally located, with most legs visible. Specimen on its side.
CONDITION: Very good.

IDENTIFICATION: Arachnida: Spider (immature) - **C. A. S. # 1159b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8". Contains a very small spider, large hair protruding, and an Aphid off in a corner.

CONDITION: Very good.

IDENTIFICATION: Arachnida (leg) - **C. A. S. # 1188.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/2", triangular. Contains a small Aphid sitting on its side near a large spider leg.

CONDITION: Good - very good.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 1193.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2". Amber specimen contains the remains of a spider, a tangle of hairy legs.

CONDITION: Fair - good.

IDENTIFICATION: Arachnida: Spider (legs) (5) - **C. A. S. # 1199.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", light amber. Five small spider legs are present at the surface - hairy.

CONDITION: Very good.

IDENTIFICATION: Arachnida - **C. A. S. # 1217.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/4". Specimen centrally located. Front legs somewhat indistinct. Spider is headless.

CONDITION: Very good.

IDENTIFICATION: Arachnida: Spider - **C. A. S. # 1222.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2". Contains skin of spider with one very large complete leg visible - the tarsi ending at the end of the piece. Also contains two mites.

CONDITION: Good.

IDENTIFICATION: Arachnida - **C. A. S. # 1227.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Specimen near edge. Two of the legs somewhat indistinct, other six and pedi-palps easily visible.

CONDITION: Good.

IDENTIFICATION: (a) - Arachnida (2) - **C. A. S. # 1265b.**

(b) - Arachnida (parts?).

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/8"x 1/3". Contains one large spider, with some of its legs broken off. Also contains what looks like a very small, semi-transparent spider. Near this is the tip of a spider leg; near this are what appear to be two spider legs coming from a large black pile of debris.

CONDITION: Fair - very good.

IDENTIFICATION: Arachnida - **C. A. S. # 1270.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 3/8", dark amber. Spider is only partially visible. Legs are balled up with only one distinct. Two Aphids are present.

CONDITION: Good.

COLEOPTERA

IDENTIFICATION: Coleoptera: Scydmaenidae: Euthiinae - **C. A. S. # 36.**

DETERMINATION: R. A. Crowson (Studied by Walter Suter).

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A tiny piece, 5/32"x 1/16"x 1/16", squared at one end and shaped to a point at a corner of the other end. The specimen is one of two black spots in the otherwise clear orange and yellow of the piece.

CONDITION: The entire specimen is excellently preserved.

IDENTIFICATION: Coleoptera? (leg) - **C. A. S. # 71.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A very tiny piece, 5/32"x 1/8"x 1/8"x 3/32", almost triangular in shape with one side flat and polished. The specimen extends from the longest roughest side down

into the "bubbly" interior of the piece.

CONDITION: Only one leg is to be found but this specimen is in very good condition.

IDENTIFICATION: Coleoptera: Staphylinoidea (1st instar larva): Staphylinidae (?subfamily) -
C. A. S. # 72.

DETERMINATION: R. A. Crowson.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A very irregular piece, 1/4" long, 5/32" wide, and 3/32" deep from point to point longest length. The specimen lies in the sharpest point of the piece made by two smooth sides and a rougher side. There is a chunk out of one large side with black debris in it and the opposite side holds an orange-black speck of debris. The rest of the piece is clear yellow.

CONDITION: This specimen is preserved in very good condition.

IDENTIFICATION: Coleoptera - **C. A. S. # 153.**

DETERMINATION: K. G. A. Hamilton, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This large piece, 1/32"x 7/16"x 3/8", has two flat and polished surfaces to mark the aphid specimen which lies near the wider end of the piece close to the broken surface that runs the length of the piece. It is easy to see in the slightly cloudy orange. Also contains an additional aphid and beetle deep in black.

CONDITION: These specimens are well preserved.

IDENTIFICATION: Coleoptera: Curculionidae - **C. A. S. # 166.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This flat piece, 5/8"x 9/16"x 5/32", is fairly clear and polished on most sides. The specimen lies clearly about the middle of the flat and polished end side right at the surface. The other sides are all slightly rounded.

CONDITION: What is left of this specimen, (leg and four segmented antennae) are in good condition.

IDENTIFICATION: Coleoptera: Trogositidae? - **C. A. S. # 180.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This large, flat, irregular piece, 15/16"x 5/8"x 1/8", is polished on both large surfaces and full of debris. One rough end has both corners broken off, one resulting in a large curve toward the middle beside which two specimens are found. The other two specimens are in the adjacent corner, the most rounded and regular of the piece.

CONDITION: Only part of the beetle is preserved but the other three specimens are good.

IDENTIFICATION: Coleoptera: Curculionoidea - **C. A. S. # 277.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: On one side of this piece, 5/8" x 1/2" x 1/8", there are three parallel grooves running diagonally across half of the side into a corner. The specimen is located in this corner.

CONDITION: Excellent.

IDENTIFICATION: Coleoptera: (larva) - **C. A. S. # 278.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is located in the middle of this clear piece, 5/16" x 5/32" x 3/32".

CONDITION: Good.

IDENTIFICATION: Coleoptera: Mordellidae - **C. A. S. # 340.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily seen. This piece was joined to **C. A. S. # 341** and **C. A. S. # 342.**

CONDITION: Good.

IDENTIFICATION: Coleoptera - **C. A. S. # 471.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Coleoptera - **C. A. S. # 481.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Fair.

IDENTIFICATION: Coleoptera - **C. A. S. # 580.**

DETERMINATION: A. Smetana, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Coleoptera: Mordellidae - **C. A. S. # 590.**

DETERMINATION: A. Smetana, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Coleoptera: Cleridae - **C. A. S. # 669.**

DETERMINATION: A. Smetana, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one poor.

IDENTIFICATION: Coleoptera: Chrysomelidae - **C. A. S. # 794.**

DETERMINATION: E. C. Becker, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Coleoptera: (larva) - **C. A. S. # 799.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Coleoptera (larva?) - **C. A. S. # 913.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Coleoptera: Mordellidae? - **C. A. S. # 941.**

DETERMINATION: D. Bright, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/4". Coleoptera is on the surface, with the front pair of legs, head, thorax, and part of abdomen removed.

CONDITION: Fair.

IDENTIFICATION: Coleoptera: Dascillidae - **C. A. S. # 975a.**

DETERMINATION: M. J. Campbell, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 5/8". Piece contains one Coleoptera, which lies on the surface and has some of the abdomen removed. The two aphids are clumped together, with legs extended.

CONDITION: Good.

IDENTIFICATION: Coleoptera: Helodidae? - **C. A. S. # 1014.**

DETERMINATION: M. J. Campbell, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/3". Head is missing, as specimen is on surface.

CONDITION: Very good.

IDENTIFICATION: Coleoptera: Orthoperidae? - **C. A. S. # 1017.**

DETERMINATION: D. Bright, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/2". Beetle is centrally located, with legs protruding. From same piece as **C. A. S. # 1015** and **C. A. S. # 1016.**

CONDITION: Excellent.

IDENTIFICATION: Coleoptera: Mordellidae (legs) - **C. A. S. # 1093.**

DETERMINATION: A. Smetana, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/8"x 1/3", thin light amber. Specimen on surface, only the back four legs are present.

CONDITION: Very good.

IDENTIFICATION: Coleoptera: Carabidae? (Larvae) - **C. A. S. # 1114.**

DETERMINATION: M. J. Campbell, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 3/8"x 3/4". Specimens head is dark; all the specimens legs are attached to dark part. Rest of body only visible in outline - piece is broken so that tips of antennae in one piece, rest in the other.

CONDITION: Very good.

IDENTIFICATION: Coleoptera: Chrysomelidae? (legs) (2) - **C. A. S. # 1152.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2". One of the legs is in the centre of the piece and is complete and easily visible to the naked eye. The other is at the side of the amber, the tarsi being damaged.

CONDITION: Fair - excellent.

IDENTIFICATION: Coleoptera: Scydmaenidae - **C. A. S. # 1190.**

DETERMINATION: A. Smetana, 1975 (studied by W. Suter).

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 7/16", cloudy amber. Specimen complete except for tip of posterior end. Specimen has a very narrow waist.

CONDITION: Very good.

IDENTIFICATION: Coleoptera: Mordelidae - **C. A. S. # 1241.**

DETERMINATION: D. Bright, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece $2/3$ "x $3/8$ ". Amber has large white crack running one half its length. Coleoptera specimen near the edge, some legs distinct, all of the beetle is present, though in somewhat damaged condition. An Aphid is present also, centrally located.

CONDITION: Good.

IDENTIFICATION: Coleoptera? (tarsi) - **C. A. S. # 1269.**

DETERMINATION: J. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece $2/3$ "x $1/2$ ", dark amber. Specimen right near the surface, greenish tinge, five segmented tarsi.

CONDITION: Good.

COLLEMBOLA

IDENTIFICATION: Collembola? Insect? **C. A. S. # 3.**

DETERMINATION: J. F. Mc Alpine, July 1972.

COLLECTED: Cedar Lake Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: A tiny piece, $7/32$ "x $5/32$ "x $1/8$ " with one flat and polished sides; the specimen is trapped in the opposite side in the corner.

CONDITION: The specimen is in very poor condition, partially missing with only two appendages to be seen.

IDENTIFICATION: Collembola - **C. A. S. # 4b.**

DETERMINATION: J. F. McAlpine, July 1972.

COLLECTED: Cedar Lake Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: This piece is wedge-like with a depth of $5/16$ ", a height of $1/4$ " and a base of $7/32$ ". The specimen is in the base, or thickest part of the piece, lodged partially in an air bubble or fault.

CONDITION: Full body and all legs very well preserved.

IDENTIFICATION: Collembola: Sminthuridae - **C. A. S. # 110.**

DETERMINATION: J. F. McAlpine 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This clear, almost rectangular shaped piece, $1/4$ "x $1/8$ "x $1/16$ ", has a light "fizzy" effect running through it from end to end. An orange triangular shaped area in the middle of the piece along one length side leans towards the specimen trapped in the slightly more rounded end.

CONDITION: This specimen is excellently preserved.

IDENTIFICATION: Collembola - (nr. *Isotoma grandiceps*) - **C. A. S. # 141.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This droplet is 1/2"x 7/32"x 1/4", fairly smooth and polished on all sides and has one flat length side. The specimen lies in the hump just opposite this flat side about a third of the way from the pointed end. The rounded end has the most dark areas in this fairly clear piece.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Collembola: Sminthuridae - **C. A. S. # 293.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The flatter side of this piece, 9/32" x 1/8" x 3/32" has a curved dark patch on it. The specimen lies near this patch.

CONDITION: Good.

IDENTIFICATION: Collembola - **C. A. S. # 404.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Collembola - **C. A. S. # 724.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Collembola: Poduridae - **C. A. S. # 908.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Collembola - **C. A. S. # 1057a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/8"x 3/4", from same stone as **C. A. S. # 1057b.** Contains thirteen Aphids, clustered in groups of three to five. The Collembola can be seen from the largest flat surface adjacent to the row of five Aphids. Also contains an Acarina in the rounded bulge of the stone.

CONDITION: Good.

IDENTIFICATION: Collembola: Tomoceroidea: Oncopoduridae - **C. A. S. # 1094.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 1/3", round, thin, light amber. Specimens near surface. Only one antenna visible.

CONDITION: Good.

IDENTIFICATION: Collembola - **C. A. S. # 1095.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 1 1/4". Near surface. Both antenna visible, with wings curved back. To the right is a Collembola - only one leg and both antennae visible. Just above it is a four legged mite.

CONDITION: Excellent.

IDENTIFICATION: Collembola: Arthropleona - **C. A. S. # 1163c.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/3"x 3/8". Collembola is beside and under the Diptera. Both specimens are curled in on themselves. Wings of Diptera only somewhat visible.

CONDITION: Very good.

IDENTIFICATION: Collembola: Arthropleona - **C. A. S. # 1234.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 1/3". Specimen near side, dorso-ventral view. Complete specimen.

CONDITION: Very good.

DIPTERA

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 12.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A round, cupped, or shell-like piece with a dark band crossing a third of it. The diameter is about 5/32". The specimen is on the edge broken by the circumference and surrounded by the dark band.

CONDITION: The abdomen is missing but the head, thorax, and four legs of this specimen are preserved in excellent condition.

IDENTIFICATION: Diptera: Cecidomyiidae: Lestremiinae: *Cretocordylomyia quadriseris*
Gagné 1976. - **C. A. S. # 24.**

DETERMINATION: R. J. Gagné 1976.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, 1/2"x 5/32"x 1/8", is canoe-like in shape coming to a point at both ends of it's length. The specimen is found in the middle at the bottom of the piece (canoe) near two surfaces at a corner, with a crack on the one surface very close by. Most of the piece is clear yellow.

CONDITION: This specimen is complete and in excellent shape.

IDENTIFICATION: Diptera: Cecidomyiidae: Porricondylinae: **HOLOTYPE** *Cretowinnertzia angustata* Gagné 1976. - **C. A. S. # 25.**

DETERMINATION: R. J. Gagné 1976.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece, 11/32"x 9/32"x 1/8", with a notch on one side and several small black particles throughout the clear yellow. Contains a specimen in one of the corners of the same side as the notch. There is a piece of dirt next to the specimen, the insect being close to the side surface.

CONDITION: This specimen is complete and in good shape.

IDENTIFICATION: Diptera: Cecidomyiidae - **C. A. S. # 26.**

DETERMINATION: R. J. Gagné, 1976. (Studied by Gagné, October, 1976 - too poor for determination).

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This rectangular piece is 1/4"x 1/8"x 5/32". One of the 1/4"x 1/8" sides contains the specimen very close to the surface. This side has tiny cracks throughout most of it and a black spot below the specimen near the surface. Orange areas circle below the specimen in the heart of the piece.

CONDITION: This specimen is only fairly well preserved.

IDENTIFICATION: Diptera: (Cecidomyiidae or Ceratopogonidae) - **C. A. S. # 27.**

DETERMINATION: R. J. Gagné. (studied by Gagné October 1976 - too poor for determination).

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece is like a roughly shaped isosceles triangle with each side being 3/16" and the depth being 1/8". If the flattest side forms the base then the specimen is found close to the opposite corner at the top of the triangle at one end of a crack that cuts this top corner off from the rest of the piece. The specimen is on the surface.

CONDITION: Most of the specimen is preserved in good condition.

IDENTIFICATION: Diptera: Cecidomyiidae (fragments only) - **C. A. S. # 28.**

DETERMINATION: R. J. Gagné. (studied by Gagné, October 1976 - too poor for determination).

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This rounded little piece, $1/4" \times 5/32" \times 3/16"$, has one larger flat side that tips the piece on an angle. The specimen is in one of the corners opposite this flat side, embedded right at the surface.

CONDITION: This specimen is in poor condition exposed to the surface leaving only part of the body and three or four legs.

IDENTIFICATION: Diptera: Phoroidea: **HOLOTYPE:** *Prioriphora canadambra* McAlpine and Martin 1966 - **C. A. S. # 29.**

DETERMINATION: J. F. McAlpine and J. E. H. Martin 1966.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A long thin wedge, $7/16" \times 1/8" \times 1/8"$, with all sides flat and polished and the specimen trapped in the point.

CONDITION: This specimen is excellently preserved with only the wings missing.

IDENTIFICATION: Diptera: Phoroidea: **HOLOTYPE:** *Sciadophora bostoni* McAlpine and Martin 1966 - **C. A. S. # 30.**

DETERMINATION: J. F. McAlpine and J. E. H. Martin 1966.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

NOTE: Specimen returned to Philip Boston, October 2, 1978.

DESCRIPTION: A long, thin, rectangular piece, $11/32" \times 3/32" \times 1/16"$, clear yellow, with the specimen clearly seen with the naked eye in the slightly narrower end.

CONDITION: An excellent specimen with all appendages and body parts easily seen. (Photographed).

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 32a.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A large piece, $27/32" \times 5/8" \times 1/4"$, flat and polished on one side exposing the whole interior. One specimen is near the middle of the piece on the surface of the large rough side and the other specimen is below the first, close to the large flat side where it meets the bottom of the piece. The circumference areas are darker.

CONDITION: The first specimen described is only a set of legs with the rest of the specimen missing. The legs are preserved fairly well. The second specimen is a complete insect well preserved.

IDENTIFICATION: Diptera: Sciaridae - **C. A. S. # 34.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This squared off piece, $1/8" \times 3/16" \times 1/8"$, has a rounded side stretching from diagonal corners to cut off one corner of the square. The specimen is trapped against one of the sides near a fault.

CONDITION: Excellently preserved are the legs, part of the wings, the genitalia and the head

with the rest of the insect cut off by the edge of the piece and missing.

IDENTIFICATION: Diptera? (insect head?) - **C. A. S. # 35.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small, flat piece, $9/32$ "x $3/16$ "x $1/16$ ", fairly clear yellow throughout, and polished flat on one larger side. The specimen is located on the surface opposite this polished side and is the only black particle in the piece.

CONDITION: Only a head (?) preserved in poor condition.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 38.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A rough triangular piece, $1/4$ "x $9/32$ "x $9/32$ "x $1/8$ ", flat and polished on one side, with the specimens (easily seen with naked eye) trapped in the broken-off side. The smaller specimen is in the legs of the larger one. A crack cuts across one corner of the triangle ending up at the specimens.

CONDITION: Both specimens are excellently preserved.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 39.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A seven sided piece, $1/4$ "x $7/32$ "x $7/32$ ", with all but one side flat and polished. The rough side contains the specimen trapped at the surface.

CONDITION: The head, part of the thorax, some legs and the antennae are preserved in good condition.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 40.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This small, flat piece, $9/32$ "x $1/4$ "x $1/8$ ", is polished straight on one side; the side that also has a large unpolished groove on it. The specimen (the only black speck in the piece) is trapped near the surface of the polished edge of another side and near a rounded corner.

CONDITION: The entire specimen is preserved in very good condition.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 41.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A small shell-like fragment, $1/4$ "x $5/32$ "x $1/16$ ", tapering to a rounded point, with a groove and crack in it, at the end. This end holds the specimen which is the only dark spot in the piece.

CONDITION: Very little of this specimen is preserved and it's condition is poor.

IDENTIFICATION: Diptera: Chironomidae. (Smittia?) - **C. A. S. # 42.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small lop-sided cube, $3/16" \times 3/16" \times 1/8"$, with one layer of darker orange running through the middle of it. The specimen is clearly seen at the widest end of the piece close to two surfaces.

CONDITION: An excellent specimen retaining all its parts.

IDENTIFICATION: Diptera: Scatopsidae - **C. A. S. # 43.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A triangular piece with rough sides, $7/32" \times 1/4" \times 1/4" \times 1/16"$, and wispy orange streaks throughout. The specimen is easily seen in this clear piece.

CONDITION: A very well preserved specimen.

IDENTIFICATION: Diptera: Brachycera - **C. A. S. # 44.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A tiny piece, $7/32" \times 3/32" \times 1/16"$, flat and polished on one side. The piece is fairly clear of debris except for the specimen trapped toward one end.

CONDITION: This specimen is poorly preserved with only the wing tip, tarsi, and haltere to be seen.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 45.**

DETERMINATION: Examined by Dr. E. L. Kessel -L-72-111 returned without comment by P. D. Arnaud July 3, 1975 on retirement of Dr. Kessel. Restudied by J. F. McAlpine & P. T. Dang - (embedded in plastic).

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A tiny piece, $5/32" \times 1/8" \times 3/32"$, flat polished on one side, white on another and clear on the remaining sides. The specimen lies exposed on the surface of the corner where the polished side, the white side, and a clear side come together.

CONDITION: This specimen is exposed at the surface and is in fair condition.

IDENTIFICATION: Diptera: Tipuloidea (legs?) - **C. A. S. # 47.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This droplet, $7/16" \times 1/4" \times 5/32"$, is smooth and polished on one side, made up of one long droplet with another about half as long as the first. The specimen lies across the middle of the piece running from the polished side to the opposite side. Scales (?) May also be seen along the side joining the second smaller droplet.

CONDITION: This specimen is in good condition.

IDENTIFICATION: (a) - Diptera: Chironomidae (4) - C. A. S. # 48.

(b) - Diptera?: antenna(e).

DETERMINATION: J. F. McAlpine.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, $13/32$ "x $9/32$ "x $1/8$ ", has a fragment clipped out of the side opposite the longest side. All of the sides are polished but not flat. There is one specimen in the point formed by the longest side and another specimen in the closest corner to that point, right beside where the fragment was chipped. A third specimen lies in the chipped area itself and a fourth is easily seen near the surface of the piece close to the middle. A fifth specimen lies close to the fourth, running from the one side up towards the chipped area.

CONDITION: All the specimens are in excellent shape except the one lying in the chipped area part of which has been broken away. There are eleven or more segments of the fifth specimen to be seen.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 49.

DETERMINATION: J. F. McAlpine, 1967.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A rounded flat piece, $7/32$ " in diameter and $3/32$ " in depth, with a scratch on its one smooth polished side. There are two fault lines through the middle of the piece and a small black speck near the surface of the largest rough side and not very far from the specimen which is lodged in an edge.

CONDITION: Only the legs and a wing of this specimen are to be seen but these are in good condition.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 50.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A small, thin piece, $9/32$ "x $1/8$ "x $1/16$ ", with one fault running the width of the piece near the specimen, which is lodged on the surface of one of the two flat and polished sides.

CONDITION: This specimen is in good condition except for some of the legs which have been broken off.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 51.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece, $7/32$ "x $7/32$ "x $1/16$ ", is polished on one side that is curved. The specimen lies where this side curves into the groove at one end. There are four or five fault lines running the width of the piece just below the specimen.

CONDITION: The specimen is preserved very well.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 52.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A rounded, almost shell-like piece, $7/32$ "x $3/16$ "x $1/16$ ", curved and polished on one side with the specimen being the only black speck in the yellow piece, lying in the thinnest part on a wispy orange band that runs through the one end of the band.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 53.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece, $9/32$ "x $3/16$ "x $1/8$ ", is polished and almost flat on one side, the side the specimen is found in near the surface of one of the corners. There is a crack, or groove, in the opposite corner to the specimen and one long side of the piece shows the signs of being broken away from another piece.

CONDITION: This specimen is excellently preserved.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 54.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece is almost a triangle, $11/32$ "x $1/4$ "x $5/16$ "x $1/8$ ", with a dark black ridge near the surface extending along one side and into a corner. The specimen lies in the centre of the piece with a fault running right through it.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 55.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This almost triangular piece, $1/4$ "x $1/4$ "x $3/16$ "x $3/32$ ", is rounded on the side opposite the sharp, rough point which holds the specimen. This specimen is right at the surface of the point lying against the groove. The rest of the piece is clear except for a fault beside the specimen and some wispy orange line through the middle areas.

CONDITION: Some of this specimen may be cut off by the point of the piece but most of it is preserved in very good condition.

IDENTIFICATION: Diptera: Empididae - C. A. S. # 57.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This fairly clear smooth piece, $1/4$ "x $1/8$ "x $3/32$ ", is rounded at one end and squared at the other end near the specimen. This specimen is on a rounded, smooth, length-wise side at the surface and can be seen with the naked eye, being the only dark speck in the piece.

CONDITION: This specimen is excellently preserved.

IDENTIFICATION: Diptera: Empididae - **C. A. S. # 58.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small rough piece, $9/32$ " long x $1/8$ " x $1/8$ " x $1/8$ ", almost triangular by the end view, with the specimen lodged in the very centre of the length and exposed on one side. One long side is slightly polished.

CONDITION: The specimen is in fair condition with most of the insect preserved.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 60.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A clear squared piece, $3/16$ " x $5/32$ " x $3/32$ ", flat and polished on all but one of the sides with the first specimen seen with the naked eye in the very middle of the piece and the second specimen directly above the first, lying exposed from the only rough surface.

NOTE: Specimen sent to Dr. D. Russel, Canadian National Museum, June 27, 1973 (for display purposes).

CONDITION: The first specimen is excellent! The second specimen is some legs (cut away from a body by the side of the piece) in good condition.

IDENTIFICATION: Diptera: Sciadoceridae - **C. A. S. # 61.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A long rectangular piece, $5/16$ " x $1/8$ " x $1/16$ ", contouring to a point at a corner of one end. The opposite end has a darker orange area which holds the specimen. One of the large sides as well as the two narrow "length" sides are flat and polished. The other sides are smooth but curved.

CONDITION: This specimen is in very good condition.

IDENTIFICATION: Diptera: Scatopsidae - **C. A. S. # 64.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A lop-sided rectangle, $5/16$ " x $1/8$ " x $1/16$ ", slightly narrower at one end than the other. All sides are flat and polished. An orange band runs almost diagonally across this clear piece just beside the specimen which is easily seen toward the wider end of the piece.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: Empididae: Hybotinae - **C. A. S. # 66.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This long, slender droplet, $13/32$ " x $1/8$ " x $1/16$ ", has one large smooth and polished flat side and one almost squared end, with the other end containing the specimen

being rounded. There are some small black specks at the feet of the specimen (which is exposed on the surface of the large untreated side.

CONDITION: Except for part of the right side that is exposed, the specimen is very well preserved.

IDENTIFICATION: Diptera: Chironomyidae - **C. A. S. # 67.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1950 by R. D. Bird and W. J. Brown .

DESCRIPTION: This triangular piece, $9/32$ "x $7/32$ "x $1/4$ "x $5/32$ ", is flat and polished on all but one rough side in which the specimen is trapped near one corner. There are orange wispy areas throughout the piece with the specimen lodged in the darkest of these. The central areas are clear yellow.

CONDITION: Most of this specimen is preserved in good condition.

IDENTIFICATION: Diptera: Dolichopodidae - **C. A. S. # 68.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A rectangular piece, $1/4$ "x $1/8$ "x $1/16$ ", clear yellow throughout with wispy orange areas. The specimen is clearly seen with the naked eye. It lies at one end of the piece, against the end, with a tiny fault area beside it.

CONDITION: This specimen is in very good shape.

IDENTIFICATION: Diptera: Empididae: Tachidrominae nr. *Drapetis* - **C. A. S. # 70.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This six sided piece, $7/3$ "x $3/16$ "x $1/8$ ", has the specimen lodged where the longest side meets one of the two largest polished flat surfaces. All six sides are polished flat and there is a fault running through the thorax of the specimen.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Diptera: Fungivoroidea: Sciaridae - **C. A. S. # 73.**

DETERMINATION: R. J. Gagné 1976.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This triangular piece, $11/32$ "x $9/32$ "x $1/4$ "x $3/32$ ", is flat and polished on all sides. It is clear yellow with three light wispy orange lines running through it, two of which are at either tip of the specimen which lies along the longest side of the triangle near the corner with the smallest side.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Diptera: Nematocera - **C. A. S. # 74.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, $5/16$ "x $1/4$ "x $1/8$ ", is flat and smooth on one large side (except for

a few long grooves) and rough on all the others. The specimen lies in the closest adjacent corner to the "pointiest" corner. There are large fault areas and some bubbles throughout the centre of the piece.

CONDITION: Most of the specimen remains preserved in good condition.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 83.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A rough irregular piece, $15/32$ " x $3/16$ " x $1/8$ ", with two flat and polished surfaces and many dark orange areas and swirls throughout the piece. The specimen lies close to one end, about the middle of the piece at the end of the polished surfaces opposite the pointed end.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: Chironomidae - C. A. S. # 84.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This rough, lop-sided rectangular piece, $3/8$ " x $9/32$ " x $1/8$ ", is flat and polished on two sides, the larger side having two cracked areas on it. The specimen lies in the side opposite the smaller flat side right beside one of the cracks. The interior of the piece is crossed with orange and black areas through most of the piece.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Diptera: Anisopodidae - C. A. S. # 85.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A clear, oval piece, $1/4$ " x $3/16$ " x $1/8$ ", with a large crack cutting off about $1/3$ of the circumference at one end. One large surface is flat and polished. The specimen is found on this crack at one end of the piece. There are bubbles away from the specimen toward the middle of the piece too.

CONDITION: This specimen is fairly well preserved (head, wings).

IDENTIFICATION: Diptera: (biting fly?) - C. A. S. # 86a, 86b.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: (a) - This almost triangular droplet, $3/16$ " x $5/32$ " x $3/32$ ", is flat and polished on one side and curved and polished on another. It is clear except for the specimen in the middle with a fault or crack going right through the centre of the insect.

(b) - A little lump of a piece, $1/4$ " x $3/16$ " x $1/8$ ", rising from a flat and polished surface. A groove on the circumference of this flat surface marks the spot where the specimen is resting and a crack stretches from here to the other side of the piece.

CONDITION: (a) - This specimen is in good condition.

(b) - The legs and wings are all that remain of this specimen but they remain in

good condition.

IDENTIFICATION: Diptera: Mycetophiloidea (3 tarsi; same specimen as 87b) - **C. A. S. # 87a.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece is very tiny, 1/8"x 3/32"x 1/32", almost flat on one side and clear yellow throughout except for the three segments of the specimens trapped near the middle.

CONDITION: This specimen is not very well preserved in two pieces.

IDENTIFICATION: Diptera: Mycetophiloidea (abdomen, wing tip, genitalia and some leg parts; same specimen as 87a) - **C. A. S. # 87b.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece 3/16"x 1/16"x 1/16", is also clear yellow, tiny, and very fragile. The only dark area in this piece is the specimen situated near the point end of the piece. A light orange line runs through the opposite end.

CONDITION: This specimen is not very well preserved.

IDENTIFICATION: Diptera: Mycetophilidae (same specimen as 88b) - **C. A. S. # 88a.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece is a very tiny, rough, fragile piece, 3/16"x 1/16"x 1/16", with one small orange area at one end, criss-crossed with cracks, that lies beside the specimen which is the only dark speck in the piece.

CONDITION: This insect is in good condition.

IDENTIFICATION: Diptera: Mycetophilidae - **C. A. S. # 88b.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece 1/4"x 3/16"x 1/8", with one flat and polished side opposite the length side in which parts of this specimen are trapped. There is one dark orange "diamond" on an edge of the specimen side.

CONDITION: This insect is in good condition.

IDENTIFICATION: Diptera: Chironomidae: (♀ adult) - **C. A. S. # 105.**

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This wedge shaped piece, 5/16"x 3/16"x 1/8", comes to a point at the end opposite the specimen with half of the piece clear yellow except for some bubbles in the middle. A dark orange area extends straight across the width of the piece above which is found the specimen in the opposite corner to the point. A large fault runs perpendicular to the dark orange line.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: (wing tips) - **C. A. S. # 115.**

DETERMINATION: M. MacKay, 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This 1/2"x 7/16"x 3/16" piece is flat and polished on one side with a large chip on the surface of the opposite large side. The first specimen is found on the lip of this chip on the highest raised side and the second specimen is beside the first in this same raised area but along the edge of the piece.

CONDITION: Both specimens are in good condition.

IDENTIFICATION: Diptera: Ceratopogonidae: **HOLOTYPE** and 5 **PARATYPES** -
Minyohelea pumilis Borkent 1995 (slide mounted) - **C. A. S. # 131.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This 7/16"x 5/16"x 1/8" piece is smooth and polished on all sides. Three specimens are found in the corner opposite the rounded point and another is in the point itself. Specimens five and six are together in the corner adjacent to the first three specimens. All the specimens are easily found.

CONDITION: These insects are in good condition.

IDENTIFICATION: Diptera: Cecidomyiidae? - **C. A. S. # 133.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This droplet, 3/8"x 9/32"x 7/32", is polished smooth on all sides with a flat end and a round pointed end. The interior of the piece is clouded in light and dark debris but the specimen is easily seen near the surface of one length side almost at the half-way point.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: Ceratopogonidae? Or Chironomidae? - **C. A. S. # 134.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This large dark triangular piece, 9/16"x 1/2"x 1/2"x 1/4", has one large side that is flat and polished. The opposite side to this has a lumpy raised surface that contains two specimens along the side of the triangle. The third specimen lies down in the middle of the lower surface of this side.

CONDITION: These specimens are in good condition.

IDENTIFICATION: Diptera: Acalypteradae? Or Bombylliidae? - **C. A. S. # 140.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This large triangular piece, 11/16"x 9/16"x 5/8"x 5/32", is very dark with a

large crack the full length of one of its two big sides. Looking at the opposite side to this the specimen lies in the lightest area of the longest side in towards the middle of the piece.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Diptera (2) - **C. A. S. # 159.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This $1/2'' \times 3/8'' \times 1/4''$ piece has one long curved side running diagonally from opposite corners on one side. One specimen is found about the middle bend of this side deep in the piece and another lies at the corner at the end of the longest arm of this side. The third specimen is near the second but along the end side.

CONDITION: These specimens are in good shape.

IDENTIFICATION: Diptera? - **C. A. S. # 175.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This very, very tiny chip of a piece, $1/8'' \times 3/32'' \times 1/16''$, has one point corner with the others normal to a cube. The specimen lies on the rough surface of one side. The middle of the piece is fairly clear orange.

CONDITION: This is a fairly poor specimen.

IDENTIFICATION: Diptera?: (insect leg) - **C. A. S. # 177.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This very clear yellow piece, $1/4'' \times 7/32'' \times 3/32''$, has the specimen trapped clearly in the side opposite the "V"-shaped or chipped side.

CONDITION: The part of this specimen that is preserved is in excellent condition.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 179.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This $7/32'' \times 5/32'' \times 3/32''$ piece is clear yellow, almost diamond shaped with the specimen clearly in the centre as the only debris or flaw.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: Sciadoceridae? or Drosophiloidea? - **C. A. S. # 196.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This tiny orange droplet, $9/32'' \times 3/16'' \times 3/32''$, is smooth and polished with one flat length side opposite the side trapping the specimen in its middle exposed on the surface along the only large crack in the piece.

CONDITION: This specimen is fairly well preserved but missing some portions because of

exposure to the surface.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 198.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This small triangular piece, $9/32" \times 9/32" \times 5/16" \times 3/32"$, is fairly clear yellow and orange holding the specimen in the middle close to (or even slightly exposed) to the flattest large side and near the irregular side of the triangle. The other sides of the triangle are straight.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 199.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This tiny rough triangle, $3/16" \times 3/16" \times 3/16" \times 3/32"$, is clear yellow and orange except for the specimen crammed in the corner opposite the groove running the length of one smaller side.

CONDITION: This specimen is in excellent condition.

IDENTIFICATION: Diptera: Rhagionidae? - **C. A. S. # 202.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This rounded flat piece, $9/32" \times 1/4" \times 1/16"$, has one large flat and polished surface. Looking through this side the specimen is exposed on the large rough surface at the opposite side of the piece from the groove found on the perimeter lying under a large crack or fault.

CONDITION: A complete wing is excellently preserved with part of a leg and other parts of the body also appearing.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 204.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This is a long tiny piece, $5/16" \times 1/8" \times 1/8"$, flat and polished on two length sides, contouring from a wider rough rounded end almost to a point. The specimen is easily seen in this clear yellow piece near the pointier end almost exposed to the rough length surface.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: Nematocera - **C. A. S. # 211.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This $3/8" \times 9/32" \times 3/16"$ piece is clear yellow and orange with orange patterns through the middle and a crack splitting the piece in halves. The specimen lies in the

centre of this crack.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Diptera: Chironomidae: (Podominae) - **C. A. S. # 218.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This larger piece, $3/4" \times 19/32" \times 1/4"$, is smooth, curved and polished on much of its two large sides with a fairly wide clear yellow area running the width and thickness of the middle of the piece. Close to the largest polished surface down at one end of the yellow band near the length side with the groove in it is found the first specimen. Looking through the opposite side of the piece in the middle of the yellow band three other specimens are found at different depths in the amber. This same sides chips off to a narrower thickness at one end revealing a fifth tiny specimen near the surface of another smaller, lighter yellow area near where the groove mentioned above terminates at one end.

CONDITION: All these specimens are well preserved.

IDENTIFICATION: Diptera: Chironomidae: Orthodadunae - **C. A. S. # 220.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This large cloudy piece, $11/16" \times 13/32" \times 5/16"$, is smooth and rounded. The narrowest length side has a groove wrapped around it beside which the specimen lies half exposed near the surface in the middle of the side.

CONDITION: Part of the thorax and all the abdomen of this specimen are missing but the rest is in good condition.

IDENTIFICATION: Diptera: Phoridae?: Phoridae?: Sciadoceridae? - **C. A. S. # 222**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This triangle, $3/8" \times 13/32" \times 3/8" \times 1/8"$, has a groove along one side of it opposite the angle in which the specimen is trapped. The rest of the piece is yellow with some light orange patterns.

CONDITION: This specimen is fairly well preserved.

IDENTIFICATION: Diptera: Scatopsidae - **C. A. S. # 223.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This almost rectangular shaped piece, $3/8" \times 13/32" \times 1/4"$, bulges to a point along one length side and is fairly smooth and polished. The specimen lies along the surface of the length side with the groove, opposite the bulging side. It lies just under a chip.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Diptera: Chironomidae and insect legs (Diptera?) - **C. A. S. # 224.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This diamond shaped piece, 7/16" (point to point) x 1/4" x 3/16", is fairly flat and polished with the specimen lying in the shorter, rougher pointed end with another set of legs just above its head. The piece is dark orange and yellow.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 226.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This large 1/2" x 9/16" x 1/4" piece has one flat and polished side on the outside part of one arm of its almost open "V"-shape. The specimen lies very plainly on the inside part of this same thick arm of this orange and yellow striped piece.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Diptera: Sciadoceridae - **C. A. S. # 227.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This small wedge, 9/32" x 3/16" x 1/8", is flat and polished on one of the large length sides and two others. The specimen lies at the thicker end of the wedge near the surface of the large polished side. A dark orange area stretches the width of the piece on the point side of the specimen.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Diptera: Ceratopogonidae: **PARATYPE** ♀ *Peronehelea chrimikalydia* Borkent 1995 (slide mounted) - **C. A. S. # 228.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This 9/16" x 5/16" x 3/16" piece is polished on all but one rough side where it was broken away from a larger piece. It is flat on the opposite large side to the one which exposes the specimen at its surface about the middle of the side at the end of a very slight ridge which seems to be the only irregularity in the smooth polished surface.

CONDITION: What remains of this specimen is well preserved.

IDENTIFICATION: Diptera: Chironomidae (head and thorax) - **C. A. S. # 229.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This flat 11/32" x 7/32" x 1/8" piece has one rough irregular length side with the rest being smooth and polished. One end is straight and the other comes to a blunt point with half the piece clear yellow and the other along the irregular side, orange. The specimen lies exposed along the rough side near the wide end.

CONDITION: What remains of this specimen is in good shape.

IDENTIFICATION: Diptera: Chironomidae: Tanypodinae? - **C. A. S. # 230a,b.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: 230 a - This broad, flat piece, $5/8" \times 11/16" \times 3/32"$, is flat and polished on one large side. The specimen lies between the parallel grooves about the end of the shorter one. A smaller flat and polished surface gives a good view of the specimen from the rougher opposite end.

230 b - This flat $13/16" \times 7/16" \times 5/32"$ piece is smooth and polished on all but the wider rounded rough end with the very large groove in it. One large length side shows the specimen between a groove and a chip along the longest narrowest side of the piece.

CONDITION: Both specimens are very well preserved.

IDENTIFICATION: Diptera: Sciadoceridae - **C. A. S. # 231.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This flat, debris filled piece, $9/16" \times 5/16" \times 3/32"$, has a flat end contouring to a point at the other end. This specimen lies at the straight end in the opposite corner to the point near the best polished large side of the piece.

CONDITION: What remains of this specimen is in fair condition.

IDENTIFICATION: Diptera: Ceratopogonidae: (Forcipomiya)? - **C. A. S. # 240b.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This light yellow and orange round edged piece, $3/8" \times 7/16" \times 1/8"$, has one straight edge and one flat and polished large side with the other large side being curved and polished. The specimen lies very plainly towards the middle of the piece.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Diptera: Nematocera - **C. A. S. # 243.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This small $5/16" \times 9/32" \times 5/32"$ chunk is curved and polished on one broad side and fairly rough on the other. A groove extends from one end half the length of the piece on this rough side pointing the way to the specimen exposed on the surface of the opposite end in the middle of the round point. (better seen from the rough side, is incomplete).

CONDITION: This is a poor specimen.

IDENTIFICATION: Diptera: Ironomyiidae: **HOLOTYPE** ♂ *Cretonomyia pristina* McAlpine 1973 - **C. A. S. # 250.**

DETERMINATION: J. F. McAlpine, 1970.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: Two irregular fragments, large piece $3/8'' \times 5/32''$, and a small piece $3/16'' \times 3/32''$, broken from the larger piece. Large piece contains a relatively large fly about $3/16''$ long; small piece contains one antenna and labellum of same fly.

CONDITION: Most of fly including antennae, head, thorax, and abdomen clearly visible. One wing and part of other, and tip of abdomen missing.

IDENTIFICATION: Diptera: Sciadoceridae (12) - **C. A. S. # 256.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The twelve specimens are very easily seen in this piece.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae; **PARATYPE** ♂ *Culicoides annosus* Borkent 1995 (slide mounted) - **C. A. S. # 262.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in the middle of the smooth side of this piece $1/2'' \times 9/32'' \times 1/8''$.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomoidea (3) - **C. A. S. # 267.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $9/16'' \times 3/8'' \times 3/16''$, has a long deep groove dividing one of its sides. The specimen is located in the middle of the larger half of this side.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 268.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One of the large flat sides of this piece, $19/32'' \times 9/32'' \times 5/32''$, has a section about $1/4$ of its area cut away. The specimen is easily seen in the smooth part of this side.

CONDITION: Excellent.

IDENTIFICATION: Diptera? (leg) - **C. A. S. # 285.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen runs the length of the piece $1/4'' \times 5/32'' \times 3/32''$ near the surface.

CONDITION: Good.

IDENTIFICATION: (a) - Diptera: Ceratopogonidae: Sciadoceridae - **C. A. S. # 287.**

(b) - Diptera: Sciadoceridae larva? (insect remains).

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $19/32'' \times 9/32'' \times 5/32''$, has a large notch the width of one side, dividing the side so that the left half is much smaller than the right half. One specimen is found in the top left hand side of the notch and another to the right of the lower side and a third just below the notch. Below and to the right of the third specimen lies a round indentation. Three more specimens are located to the right of this indentation. The seventh specimen is on a smooth flattened arrowhead along an edge joining two sides.

CONDITION: 5 good, 2 poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 296.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One specimen lies in the corner of the flattest side of this $11/16'' \times 19/32'' \times 3/32''$ piece. Two other specimens lie in the centre of the opposite side.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 297.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen lies in the corner of this $9/16'' \times 9/32'' \times 1/8''$ triangular piece.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 299.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece has a large barb-shaped groove on one of its sides. The specimen is located on the edge near the point of the barb.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 303.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Parts of the specimen are found in each of the three sections of the piece.

CONDITION: Fair.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 320.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this flat clear piece.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae: **PARATYPE** ♀ *Leptoconops primaevus*

Borkent 1995 (slide mounted) - **C. A. S. # 335.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: There is a deep wide groove running the width of one side. The specimen lies beside this groove.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae? - **C. A. S. # 337.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily seen. Piece originally joined with **C. A. S. # 336.**

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae (3) **ALLOTYPE** ♀ *Peronehelea chrimikalydia* Borkent 1995 (slide mounted) + 2 **PARATYPES** - *Peronehelea chrimikalydia* Borkent 1995 (slide mounted) **C. A. S. # 339.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One end of the piece has a hook-like appearance upon which two specimens are found. A third is found in the centre of the piece and the fourth at the end opposite the hook.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae (4) - **C. A. S. # 348.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The five specimens form a semi-circle in one corner of the piece.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae (2) - **C. A. S. # 358.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: All specimens are easily located.

CONDITION: Two good, one poor.

IDENTIFICATION: Diptera (leg) - **C. A. S. # 360.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens are easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Scatopsidae - **C. A. S. # 372.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 378.**

DETERMINATION: B. V. Peterson.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen lies in the corner which is marked off by a crack in the piece.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 379.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Cecidomyiidae: **PARATYPE** *Cretomiastor ferejunctus* Gagné,
1976 (2) - **C. A. S. # 380.**

DETERMINATION: R. J. Gagné, October 1976.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 381.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 385.**

CONDITION: Excellent. Photograph available.

IDENTIFICATION: Diptera: Nematocera - **C. A. S. # 384.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 383.**

CONDITION: Legs and mouth parts preserved.

IDENTIFICATION: Diptera? (insect leg) - **C. A. S. # 385.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 381.**

CONDITION: Leg.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 386.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Nematocera - **C. A. S. # 389.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Scatopsidae - **C. A. S. # 392.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 395** and **C. A. S. # 396.**

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 395.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 392** and **C. A. S. # 396.**

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Scatopsidae (2) - **C. A. S. # 396.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located. Same piece as **C. A. S. # 393** and **C. A. S. # 395.**

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 397.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 398.**

CONDITION: Poor.

IDENTIFICATION: Diptera? (abdomen) - **C. A. S. # 398.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 397.**

CONDITION: Abdomen.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 400.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Empididae: Tachydromiinae (3) - **C. A. S. # 405.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 406.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae? - **C. A. S. # 408.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is hidden at the narrow end of the piece.

CONDITION: Poor.

IDENTIFICATION: Diptera: Chironomidae (2) - **C. A. S. # 414.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 416.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 422.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Cecidomyiidae: **PARATYPE** *Cretomiaster ferejunctus* Gagné
1976 - **C. A. S. # 425.**

DETERMINATION: R. J. Gagné, 1976.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 430.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 439.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Fair.

IDENTIFICATION: Diptera (2) - **C. A. S. # 444.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Chironomidae? - **C. A. S. # 446.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 447.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Scatopsidae - **C. A. S. # 448.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: (wing and legs) - **C. A. S. # 451.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor (fractured wing and legs).

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 452.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 454.**

CONDITION: Good.

IDENTIFICATION: Diptera (wing?) - **C. A. S. # 456.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae: **PARATYPE** ♀ *Leptoconops primaevus*
Borkent 1995 (slide mounted) - **C. A. S. # 462.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Sciadoceridae - **C. A. S. # 463.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 472.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Scatopsidae (15+) - **C. A. S. # 474.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Chironomidae (5) - **C. A. S. # 483.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Same piece as **C. A. S. # 473**, **C. A. S. # 484**, **C. A. S. # 485**, and **C. A. S. #**

486.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 484.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Same piece as **C. A. S. # 473, C. A. S. # 483, C. A. S. # 485, and C. A. S. #**

486.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 485.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Same piece as **C. A. S. # 473, C. A. S. # 483, C. A. S. # 484, and C. A. S. #**

486.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae (2) - **C. A. S. # 486.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Same piece as **C. A. S. # 473, C. A. S. # 483, C. A. S. # 484, and C. A. S. #**

485.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 492.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 497.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Forcipomyia - **C. A. S. # 501.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 502.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 503.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 504.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 505.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 506.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 507.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 508.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 509.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 510.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 511.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Forcipomyia - **C. A. S. # 512.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Forcipomyia - **C. A. S. # 513.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Forcipomyia - **C. A. S. # 514.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 515.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Phoroidea? Empididae? Or Dolichopodidae? -
C. A. S. # 516.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: (a) - Diptera: Ceratopogonidae: Forcipomyia: **PARATYPE** ♂ *Culicoides*
obuncus Borkent 1995, (slide mounted) CNC # 22063 - **C. A. S. # 517.**

(b) - Chironomidae (2).

DETERMINATION: (a) - A. Borkent, 1995.

(b) - J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 518.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 519.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 520.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 521.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 522.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: **PARATYPE** *Peronehelea chrimikalydia*
Borkent 1995 (slide mounted) - **C. A. S. # 523.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae (2) - **C. A. S. # 524.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae? - **C. A. S. # 525.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1950 by W. J. Brown and R. Bird.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 526.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1950 by W. J. Brown and R. Bird.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 527.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1950 by W. J. Brown and R. Bird.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 528.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 529.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1950 by W. J. Brown and R. Bird.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: **HOLOTYPE** ♂ *Adelohelea glabra* Borkent
1995 (slide mounted) CNC # 21663 - **C. A. S. # 530.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 531.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 532.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 535.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 545.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 548.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 553.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 555.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae? (2) - **C. A. S. # 556.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: (legs) - **C. A. S. # 560.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Legs.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 562.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 565.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 567.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Sciadophora (n. sp.) - **C. A. S. # 568.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera? (legs) - **C. A. S. # 571.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Legs.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 573.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera? - **C. A. S. # 589.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Cecidomyiidae: Lestremiinae: **HOLOTYPE** ♂ *Cretocatocha mcalpinei* Gagné 1976 - **C. A. S. # 593.**

DETERMINATION: R. J. Gagné, October 1976.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 594.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 601.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 602.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: The specimen is found in the rounded corner of this square piece.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: **PARATYPE** ♀ *Leptoconops primaevus*
Borkent 1995 (slide mounted) - **C. A. S. # 614.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera? (legs) - **C. A. S. # 615.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 617.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 622.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 629.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 631.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 632.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: (a) - Diptera: Ceratopogonidae - **C. A. S. # 636.**

(b) - Diptera: Chironomidae.

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: All three specimens in good condition.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 643.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Diptera: Chironomidae: Diamesinae - **C. A. S. # 645.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 648.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one poor.

IDENTIFICATION: Diptera: Empididae - **C. A. S. # 656.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 658.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Limoniidae: **HOLOTYPE** ♂ *Dicranomyia albertensis*

Krzeminski & Teskey 1987. CNC # 19080 - **C. A. S. # 661b.**

DETERMINATION: W. Krzeminski & H. J. Teskey, 1987.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 666.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 667.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: (legs) - **C. A. S. # 669.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 676.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 680.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Two good, one poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 684.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae (4) - **C. A. S. # 686.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Diptera: Ceratopogonidae: **ALLOTYPE** ♀ *Palaeobrachypogon vetus*
Borkent 1995 (slide mounted) - **C. A. S. # 692.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 693.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 695.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Sciadoceridae - **C. A. S. # 699.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 705.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera (legs) **C. A. S. # 708.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae: **ALLOTYPE** ♀, *Minyohelea pumilis* Borkent
1995 (slide mounted) - **C. A. S. # 709.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 713.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 716.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 718.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 721.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae: **ALLOTYPE** ♀ *Leptoconops primaevus*
Borkent 1995 (slide mounted) - **C. A. S. # 733.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 737.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Scatopsidae - **C. A. S. # 742.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 743.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 749.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 756.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 763.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae: **PARATYPE** ♀ *Palaeobrachypogon vetus*
Borkent 1995 (slide mounted) - **C. A. S. # 764.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 765.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Psychodidae: *Sycorax* - **C. A. S. # 766.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Forcipomyiinae with Acarina Erythraeidae na
leptus (parasite mite) - **C. A. S. # 768.**

DETERMINATION: J. F. McAlpine, P. T. Dang, and J. Robillard, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 769.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 777.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 779.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Diptera: Cecidomyiidae **PARATYPE** *Cretomiastor ferejunctus* Gagné
1976 - **C. A. S. # 781a.**

DETERMINATION: R. J. Gagné, 1976.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Specimen in good condition.

IDENTIFICATION: Diptera: Cecidomyiidae **PARATYPE** *Cretomiastor ferejunctus* Gagné
1976 - **C. A. S. # 781b.**

DETERMINATION: R. J. Gagné, 1976.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Specimen in good condition.

IDENTIFICATION: (a) - Diptera: Chironomidae (2) - **C. A. S. # 791.**

(b) - Diptera: Ceratopogonidae **HOLOTYPE** ♂ *Culicoides bullus* Borkent
1995 (slide mounted).

DETERMINATION: (a) - P. T. Dang, 1974.

(b) - A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one poor.

IDENTIFICATION: Diptera: Ceratopogonidae **HOLOTYPE** ♂ *Leptoconops primaevus*
Borkent 1995 (slide mounted) - **C. A. S. # 792.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 795.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae (2) - **C. A. S. # 802.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one poor.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 807.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey..

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae: Culicoides - **C. A. S. # 810.**

DETERMINATION: P. T. Dang, 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Diptera: Sciadoceridae - **C. A. S. # 811.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 827.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 830.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 831.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 838.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Cecidomyiidae **PARATYPE** *Cretomiaster ferejunctus* Gagné

1976 - **C. A. S. # 839.**

DETERMINATION: R. J. Gagné, 1976.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: The specimen is partially exposed and should be embedded in plastic before further study.

IDENTIFICATION: (a) - Diptera: Ceratopogonidae - **C. A. S. # 840.**

(b) - Diptera: Chironomidae.

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One poor, one good.

IDENTIFICATION: Diptera: (legs) - **C. A. S. # 854.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Culicoides - **C. A. S. # 855.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 864.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Sciadoceridae (2) - **C. A. S. # 866.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: Dasyhelea - **C. A. S. # 880.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: **HOLOTYPE** ♂ *Peronehelea chrimikalydia*
Borkent 1995 (slide mounted) - **C. A. S. # 882.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 886.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 894.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 900.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 902.**

DETERMINATION: P. T. Dang, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Diptera: Cecidomyiinae: **PARATYPE** *Cretomiastor ferejunctus* Gagné
1976 - **C. A. S. # 906.**

DETERMINATION: R. J. Gagné, 1976.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Diptera?: Ceratopogonidae? (legs) - **C. A. S. # 918.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: Only four legs are visible at one edge of piece. Size about 1/4" long, 3/16"
wide, rectangular.

CONDITION: Two legs complete, front two showing only tarsi.

IDENTIFICATION: Diptera: Empididae - **C. A. S. # 920.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece about 1/4"x 1/4" rounded on corners. Specimen on side, wings over thorax - ovipositor distended - legs extended ventrad.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae? - **C. A. S. # 922.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2", rounded corners. Specimen has only legs and part of body visible, with two best towards body.

CONDITION: Only legs and lower part of the body are present.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 924.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In triangular piece, 1/4"x 1/3". Specimen near surface, with legs projecting down.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: 2 - **PARATYPES** ♀ *Leptoconops primaevus* Borkent 1995 (slide mounted) - **C. A. S. # 929.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/8"x 3/8", specimens wings and first two sets of legs held against body.

CONDITION: Very good.

IDENTIFICATION: Diptera: Nematocera: Ceratopogonidae? - **C. A. S. # 931.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 2/3". There is one diptera in which one front leg, part of the abdomen, and all but a tip of one wing have been ground away.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 937.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/4", clear amber. Specimen near surface, with head nearest surface. The wings are distended.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 944.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece, 1/4"x 1/4". Specimen's antennae both curled to the right.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae: **HOLOTYPE** ♂ *Palaeobrachypogon remmi*

Borkent 1995 (slide mounted) - **C. A. S. # 947.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2". Both specimens near surface. One of the specimens is whole. One has only a head, thorax and Part of an abdomen.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 948.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/3". Light amber specimens. Left antennae bent in middle at right angles.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 952.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 2/3". Specimen has only 2-3 legs visible, with only part of an abdomen and no head or thorax remaining. Wings are, however clearly visible.

CONDITION: Poor.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 953.**

DETERMINATION: P. T. Dang, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/3". Specimen is near surface and is highly fragmented.

CONDITION: Fair.

IDENTIFICATION: Diptera: Mycetophilidae - **C. A. S. # 954.**

DETERMINATION: J. Vockeroth, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/2". Diptera specimen has one wing partially hidden by abdomen; the apex of the other wing not existing.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Phoroidea: Phoridae? (6) - **C. A. S. # 955.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 1/3". Contains one complete, two mostly complete, and fragments (legs, head, abdomen) of three other specimens.

CONDITION: Fair to good.

IDENTIFICATION: Diptera - **C. A. S. # 958.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 2/3". Specimen contains only legs and part of thorax.

CONDITION: Good (legs only).

IDENTIFICATION: Diptera? (legs) - **C. A. S. # 966.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/4"x 1/2". Legs only are visible; near the surface.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 967.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 3/4". ♂ specimen with wings extended.

CONDITION: Excellent (Photo).

IDENTIFICATION: Diptera: Ceratopogonidae? - **C. A. S. # 971.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/2". The diptera is near the surface, and is somewhat fragmented, with the head and wings obscured.

CONDITION: Fair.

IDENTIFICATION: Diptera: Chironomidae.- **C. A. S. # 981.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 2/3", semi-circular. Specimens wings are outstretched, and is a male.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 982.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/4"x 1/4". Specimens wings are both upright over thorax, head is

near surface.

CONDITION: Good.

IDENTIFICATION: (a) - Diptera: Chironomidae (2) - **C. A. S. # 984.**

(b) - Diptera: Mycetophilidae.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 5/8". Amber contains two female Chironomidae, one heading to left, other heading straight upward above the first one. One Mycetophilidae with wings, legs and abdomen visible, in the edge of the piece directly behind the first Chironomid. Two aphids found below the Chironomids, one in side view, other in dorso-ventral view.

NOTE: The supposed Mycetophilidae (most of one wing, fragment of body) apparently has a closed distal cell; radial area also unlike Mycetophilidae. I think it is probably brachycerous, possibly Empididae. J. Vockeroth, June 1976.

CONDITION: Good - very good.

IDENTIFICATION: Diptera: Ceratopogonidae: **HOLOTYPE** ♂ *Heleageron arenatus* Borkent 1995 (slide mounted) - **C. A. S. # 985.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 3/8". Specimen male, complete, with abdomen nearly clean.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 986.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/2", round. Specimen in a very small piece with many bubbles in the amber. Antennae and mouthparts very well exposed, specimen is male.

CONDITION: Very good.

IDENTIFICATION: Diptera: Sciadiphoridae (7) - **C. A. S. # 987.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/3". Contains at least seven male and female specimens of diptera, as well as two Acarina, found near cluster of three Diptera, best seen from the flattened surface.

CONDITION: Most in very good condition.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 991.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/2". Contains a reddish coloured Aphid, and a Diptera, visible from the rounded face near a fractured area. Amber is yellow containing a variety of

fragments.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1002.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 2/3". Specimen contains a head, two front legs, a left middle leg, and part of the thorax.

CONDITION: Fair.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1013.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/4"x 1/3". Front half of specimen highly visible, rear half obscured due to specimen being turned in on itself - two legs are only partially present.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1015.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2". Both specimens on side, back to back from same stone as **C. A. S. #1016** and **C. A. S. # 1017**. One ♂ and one ♀.

CONDITION: Very good.

IDENTIFICATION: (a) - Diptera: Empididae (2) (wings) - **C. A. S. # 1019.**

(b) - Diptera: Ceratopogonidae **PARATYPE** ♂ *Culicoides obuncus*
Borkent 1995 (slide mounted).

(c) - Diptera: Tiphliidae? (2) (legs).

DETERMINATION: (a) - J. F. McAlpine, 1975.

(b) - A. Borkent, 1995.

(c) - J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 3/8", dark amber. Specimen contains a pair of Diptera wings, under which lies an Aphid. Four of the seven Aphids are clumped together with a complete Diptera. Of the Aphids, six are large and black, one being very small and light coloured. The two Diptera legs present are found just beyond the clump of four Aphids.

CONDITION: Wings - very good; legs - good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1025.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 2/3". Wings nicely visible, though body is slightly fragmented. Head is at right angles down with respect to the rest of the insect.

CONDITION: Good.

IDENTIFICATION: Diptera: Cecidomyiidae: Lestremiinae (Studied by R. J. Gagné, October 1976 - too poor for identification) - **C. A. S. # 1026.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 3/4". Hymenoptera and Diptera found almost together.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1027.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 2/3". Amber is in two parts - one clear orange, and a part heavily fractured to the point of opaqueness. Specimen is in the clear part, with wings fully exposed.

CONDITION: Very good.

IDENTIFICATION: (a) - Diptera: Ceratopogonidae: **PARATYPE** ♂, **PARATYPE** ♀
Heleageron arenatus Borkent 1995 (slide mounted) - **C. A. S. # 1040.**

(b) - Diptera: Ceratopogonidae: **PARATYPE** ♀ *Heleageron arenatus*
Borkent 1995 (slide mounted).

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 13/16". Three of the specimens are clumped together, two of these in damaged condition. A fourth is visible under this clump deeper in the stone, in good condition.

CONDITION: Two very good, two fair.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1044.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/3". Specimen is male, with all important parts visible.
Specimen lies near the surface of the unpolished side.

CONDITION: Very good.

IDENTIFICATION: Diptera: Tipulidae - **C. A. S. # 1049.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/3"x 5/8". Specimens head is bent towards body. All is present except tarsi, to be found in **C. A. S. # 1050.**

CONDITION: Excellent.

IDENTIFICATION: Diptera: Tipulidae (tarsi) - **C. A. S. # 1050.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/3"x 5/8". From **C. A. S. # 1049**.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1052**.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 1/3", dark amber. Contains two specimens, a complete male on one side, and visible from the other, a female with head, three legs and part of thorax visible.

CONDITION: Male - excellent, female - fair.

IDENTIFICATION: Diptera: Cecidomyiidae: Scatopsidae - **C. A. S. # 1054**.

DETERMINATION: R. J. Gagné, October, 1976.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/4", light amber. Stocky body, tarsi of some legs end outside of stone.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1059**.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/2", light amber. Specimen just beside light brown stain. Specimen is a complete male in the clear piece with all parts clearly exposed.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1060a**.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2". Contains three specimens - an Acarina in a bubble, an Aphid, and a female Chironomidae. The Diptera and Aphid being right next to one another.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1068**.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/2". Specimen near edge, back to edge.

CONDITION: Good.

IDENTIFICATION: Diptera (two sets of legs) - **C. A. S. # 1070**.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/3". Contains three sets of legs, two together, off to the side.

The spider legs have some abdomen attached. The set nearest the spider is also held together, but the third set is somewhat scattered.

CONDITION: Fair - good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1071.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 5/8", thin amber. Specimen in middle, wings partially obscured, male.

CONDITION: Very good.

IDENTIFICATION: Diptera: Chironomidae? - **C. A. S. # 1074.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 3/8". Specimen near surface, one wing partially visible, head is not visible. Specimen should be embedded in plastic as it is a crumbly piece.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1081.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 2/3". Specimen on surface. One wing only half visible. Genitalia well exposed; male.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae: **ALLOTYPE** ♀ *Adelohelea glabra* Borkent 1995 (slide mounted) CNC # 21663 - **C. A. S. # 1089.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 7/8". Specimen near surface to one side. Thorax and head are only partially present. Left wing only is visible.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1090.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/3", light amber. Specimen near surface, legs in, at an obscure angle.

CONDITION: Very good.

IDENTIFICATION: Diptera: Empididae: **HOLOTYPE** ♂ *Nemedromia campania* Grimaldi &

Cummings 1999. - **C. A. S. # 1091.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 3/4". Specimen on surface, with wings exposed by crack in amber. Filled with polishing powder.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1101.**

DETERMINATION: P. T. Dang, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Specimen on rounded surface. View is obscured on this side by a pock mark full of polishing powder over the insect. Insect is therefore incomplete, legs and antennae being present.

CONDITION: Fair - good.

IDENTIFICATION: Diptera?: Nematocera? - **C. A. S. # 1105.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/8"x 3/8". Amber contains four long legs, missing the tarsi.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1107.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Specimen on its side, with both wings fully exposed.

CONDITION: Very good.

IDENTIFICATION: Diptera: Empididae: Hybotinae - **C. A. S. # 1115a.**

DETERMINATION: H. Teskey, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/8"x 1". Specimen centrally located. Legs are twisted to one side.

One wing is extended, the other is folded in.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1116.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 1/3". Wings only are present, in a corner.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1123.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2". View of the insect from flat side is ventral. One wing is partially exposed.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae (♀) - **C. A. S. # 1125.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2", odd-shaped piece. Specimen on very edge, one wing visible. Legs end at end of piece.

CONDITION: Very good.

IDENTIFICATION: Diptera: Sciadoceridae (2) - **C. A. S. # 1128.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 5/8", darkish amber. Contains two flies, one complete with wings visible, and one more fragmentary beside it. Whole specimen on its side. Same piece as **C. A. S. # 1129.**

CONDITION: One very good, 1 poor.

IDENTIFICATION: Diptera: Phoroidea: Sciadoceridae - **C. A. S. # 1129.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 3/8", cloudy amber. Wings and antennae visible. Specimen near pieces edge. Should be embedded in plastic. Same piece as **C. A. S. # 1128.**

CONDITION: Very good.

IDENTIFICATION: Diptera: Bombyliidae - **C. A. S. # 1133a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/4". Specimen on its side. Very large eyes are visible. Map of wing venation is enclosed with box.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1134.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/2", medium-dark amber. Specimen on edge, part of one wing is missing.

CONDITION: Very good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1135.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 5/8". Diptera's legs are twisted, wings are only somewhat visible. Acarina next to one of the Diptera's legs. Hymenoptera is above the Diptera, to the side, with both wings exposed.

CONDITION: Very good.

IDENTIFICATION: Diptera: Empididae: Tachydromyiinae? (3) - **C. A. S. # 1145.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 5/8". Contains three specimens, two extremely close and somewhat intertwined, and one a short distance away. Map of wing venation is included in box.

CONDITION: Very good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1147.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/4", clear amber. Chironomid easily visible with naked eye. Mite is on its side, has a curved back. What could possibly be three eggs are nearby.

CONDITION: Very good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1150.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3". Specimen on its side, all its legs are curved away from specimens head.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae: Culicoidea - **C. A. S. # 1154.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2". Specimen in corner. Ventral view offered, mouth parts clearly visible. Wings folded over body.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1158.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 3/16", dark amber. Specimen somewhat obscured by a large white crack on one side. A cavity filled with polishing powder on another.

CONDITION: Very good.

IDENTIFICATION: Diptera: Cecidomyiidae?: Lestremiinae - **C. A. S. # 1162.**

DETERMINATION: J. F. McAlpine, 1975. (studied by R. J. Gagné, October 1976: too poor

for determination).

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/4"x 1/3", triangular. Specimen on surface of piece, wings not present. Only five legs and one and one half antennae visible.

CONDITION: Good.

IDENTIFICATION: (a) - Diptera: Chironomidae (♂) - **C. A. S. # 1163b.**

(b) - Diptera: Cecidomyiidae: **PARATYPE** *Cretomiastor ferejunctus*
Gagné 1976.

DETERMINATION: (a) - J. F. McAlpine, 1975.

(b) - R. J. Gagné, October 1976.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 3/8". Cecidomyiidae is on its side, both wings exposed, antennae clearly visible from one side only. One front leg is outstretched, the other is bent at first joint from body. Chironomid is near the end of piece.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Cecidomyiidae: Lestremiinae: **HOLOTYPE** ♂ *Cretomiastor ferejunctus* Gagné 1976 - **C. A. S. # 1163c.**

DETERMINATION: R. J. Gagné, October 1976.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/3"x 3/8". Collembola is beside and under the Diptera. Both specimens are curled in on themselves. Wings of Diptera only somewhat visible.

CONDITION: Very good.

IDENTIFICATION: Diptera: Sciadoceridae - **C. A. S. # 1174.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/2". Specimen in edge of piece - visible from the side only.

Wings not visible - legs are complete - reddish in colour. Specimen should be embedded in plastic.

CONDITION: Very good.

IDENTIFICATION: Diptera: Ceratopogonidae? Chironomidae? (legs) - **C. A. S. # 1196.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", triangular. Contains six insect legs, one of the middle legs being shortened.

CONDITION: Good.

IDENTIFICATION: Diptera: Ceratopogonidae: **HOLOTYPE** ♂ *Palaeobrachypogon vetus*
Borkent 1995 (slide mounted) - **C. A. S. # 1198.**

DETERMINATION: A. Borkent, 1995.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2", thin amber. Specimen's legs all folded in under body.

One wing is visible. Antennae obscured by plant debris, though not mouthparts.

CONDITION: Very good.

IDENTIFICATION: Diptera: Chironomidae? - **C. A. S. # 1211.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 2/3". Specimen centrally located but on the surface. One of the front legs is distorted, extremely long and wavy, and bent behind the specimen.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1216.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 3/4". Specimen visible with naked eye. One wing is visible, mouthparts well exposed. Details on legs excellent.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Chironomidae (♂) - **C. A. S. # 1221.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 7/16". Diptera specimen best visible in the side of the amber.

Specimen is lying against a band of stain. Only one wing is visible. Aphid is found right beside the Diptera.

CONDITION: Very good.

IDENTIFICATION: Diptera: Chironomidae (head, antennae, legs) - **C. A. S. # 1223.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/2". Contains the head, including palpi and mouthparts, an antenna, and several legs of some insect. Scattered throughout the amber are numbers of small hairs.

CONDITION: Very good (parts only).

IDENTIFICATION: Diptera: Chironomidae (6) - **C. A. S. # 1224.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In two pieces - one 1/3"x 5/16", one 15/16"x 7/16". Specimen in small piece is somewhat fragmentary, has long body for Chironomid. In the large piece are five specimens. One of the Chironomids is fragmentary, and was covered with a black coat.

Three legs and an antenna are visible. The other specimens lie close to one another.

CONDITION: Four very good, one good, and one poor - fair.

IDENTIFICATION: Diptera: Ceratopogonidae ♂ - **C. A. S. # 1231.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/2". Specimen near edge of piece. One tarsi is near the edge, details are superb.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Cecidomyiidae: Cecidomyiinae: **PARATYPE** *Cretomiastor ferejunctus* Gagné 1976 - **C. A. S. # 1243.**

DETERMINATION: R. J. Gagné, October 1976.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 1/3"x 1/4". Contains a Diptera near the polished surface, and two Aphids on the irregular side. Cecid's wings are fully exposed, its antennae end near one of the sides.

CONDITION: Very good - excellent.

IDENTIFICATION: Diptera: Chironomidae ♀ - **C. A. S. # 1244.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 3/4"x 1/3". Specimen on surface, wings exposed, eyes very clear.

CONDITION: Excellent (photo).

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1246.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 3/4"x 2/3". Specimen in corner, on surface. Wings only partially exposed.

CONDITION: Very good.

IDENTIFICATION: Diptera: Cecidomyiidae: Cecidomyiinae - **C. A. S. # 1248a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/4"x 1/4". Wings partially exposed, legs folded back.

CONDITION: Very good.

IDENTIFICATION: Diptera: Cecidomyiidae? - **C. A. S. # 1248b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/4"x 1/4". Wings not visible, antennae end at surface. Amber is cloudy, visibility is limited.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1254a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 1/3", semi-circular. Specimen in corner, visible by naked eye, wings exposed, legs tucked in.

CONDITION: Excellent.

IDENTIFICATION: Diptera: Ceratopogonidae - **C. A. S. # 1254b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/3"x 3/8". Specimen on surface, antennae and legs are visible. Specimen is also deformed.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae (♂) - **C. A. S. # 1258a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 2/3"x 3/16". Specimen on surface, legs very well preserved. Abdomen and thorax damaged, no wings, head damaged.

CONDITION: Good - very good.

IDENTIFICATION: Diptera: Sciadoceridae? - **C. A. S. # 1258b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/16"x 2/3". Amber full of hair-like debris. Specimen near edge, legs and part of body present.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1268.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 3/8", very cloudy amber. Specimen in deep crack. One wing is visible, as is some of the body and legs.

CONDITION: Good.

IDENTIFICATION: Diptera: Chironomidae - **C. A. S. # 1272a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/3"x 1/3". Hymenoptera looks like a hybrid - Cynipid wings, but the body does not resemble a Cynipid. Just above the Hymenoptera is a Chironomid, wings exposed.

CONDITION: Good - very good.

IDENTIFICATION: Diptera: Cecidomyiidae - **C. A. S. # 1277.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/3"x 1/3". Specimen in corner of piece. Wings not visible, though all legs are. Abdomen is curled.

CONDITION: Very good.

HEMIPTERA

IDENTIFICATION: Hemiptera: Anthocoridae - **C. A. S. # 5.**

DETERMINATION: J. F. McAlpine, July 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A very tiny fragment, 3/32"x 1/16"x 1/16", orange in colour, with specimen being the only black marking in the piece. (Specimen seen more easily in oil; size and condition of piece makes polishing difficult).

CONDITION: Entire specimen seems to be in good condition but is close or exposed to one surface.

IDENTIFICATION: Hemiptera: Anthocoridae - **C. A. S. # 37.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A long, narrow, thin droplet, 11/32"x 3/32"x 1/16", narrower at one end than the other, with a slight angle on the tip of the wider end. The specimen is near the narrowest end as seen by the naked eye. The piece is flat on one long side with a chip near the opposite end of the specimen.

CONDITION: The complete specimen is excellently preserved.

IDENTIFICATION: Hemiptera - **C. A. S. # 149.**

DETERMINATION: K. G. A. Hamilton, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This large flat droplet, 5/8"x 1/2"x 1/8", is clear yellow throughout, flat and polished on its two broad sides. When looking through the larger flat side the specimen is in the fat end of the piece beside the crack on the opposite surface.

CONDITION: This specimen is poorly preserved.

IDENTIFICATION: Hemiptera (nymphs?) (4) - **C. A. S. # 150.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This piece, 5/8"x 1/2"x 1/8", is flat with one long rounded side cutting a bulging diagonal that almost makes a rectangle a triangle. One specimen lies near where this curved side meets the straightest side, close to the surface of this straight side. The

other three specimens are found about the middle of the smaller curved side and towards the middle of this fairly clear yellow piece.

CONDITION: These specimens are in fairly good shape.

IDENTIFICATION: Hemiptera: Reduvidae - **C. A. S. # 173.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This thin square piece, 7/32" square by 1/16" thick, is fairly clear with different shades of orange. The specimen is right in the middle at the end of a fault line that extends from one side.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Hemiptera: Anthocoridae - **C. A. S. # 286.**

DETERMINATION: L. Kelton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is located at the narrower end of this 11/32" x 5/32" x 5/32" piece.

CONDITION: Good.

IDENTIFICATION: Hemiptera: Reduviidae? - **C. A. S. # 345.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Poor.

IDENTIFICATION: Hemiptera: Nabid - **C. A. S. # 478.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hemiptera: Anthocoridae - **C. A. S. # 644.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hemiptera - **C. A. S. # 814.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Poor.

IDENTIFICATION: Hemiptera: Anthocoridae - **C. A. S. # 850.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hemiptera - **C. A. S. # 911.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Hemiptera: Anthocoridae? (nymph) - **C. A. S. # 1131.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 3/16", clear light amber. One leg of specimen protrudes considerably. The rest are more towards body. Specimens body is curled somewhat.

CONDITION: Excellent.

IDENTIFICATION: Hemiptera? (legs) - **C. A. S. # 1133b.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 2/3". Specimen in corner, reddish in colour. Damaged and incomplete parts of legs.

CONDITION: Fair - good.

HEMIPTERA

IDENTIFICATION: Hemiptera: Reduvioidae? - **C. A. S. # 345.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Poor.

HOMOPTERA

IDENTIFICATION: Homoptera: Adelgidae. *(To Manitoba Museum of Man and Nature, September 14, 1979 - as a gift) - **C. A. S. # 6.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A very tiny specimen is in the rounded corner of this 1/4"x 7/32"x 1/8" piece seen by tilting the piece on end. The sides opposite this corner are darker than the light orange and yellow interior of the piece.

CONDITION: Entire specimen well preserved.

IDENTIFICATION: Homoptera: Psocid - **C. A. S. # 8.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A rough piece, 1/4"x 1/4"x 1/8", with one point sticking out at one of the corners and two polished flat sides. The specimen lies just below the distinctive point in the clear area of the piece. There are darker areas at the bottom of the piece opposite the point.

CONDITION: The entire specimen is in excellent condition with both wings clearly visible.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 10.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small piece, 7/32"x 3/32"x 1/8", flat and polished on one side, contouring to a point. The specimen is about half-way between the point and the base end, close to a corner of two sides. The piece contains many bubbles and cracks.

CONDITION: The specimen is in fair to good condition, most legs to be seen.

IDENTIFICATION: Homoptera; Aphidoidea: Adelgids? (3) - **C. A. S. # 11.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: An L-shaped piece with three specimens trapped about the middle of the longer arm of the letter. The letter is 3/8" high, 7/32" wide, and 3/8" deep.

CONDITION: The three specimens are very well preserved.

IDENTIFICATION: Homoptera - **C. A. S. # 31a,31b,31c.**

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: 31a - A small, rough, and crumbly piece, 3/16"x 5/32"x 1/8", wider at one end than the other. There is one black area running from one side down into the wider end just above the two trapped specimens which are situated near each other.

31b - Another small, crumbly piece, rounded and clear yellow, 1/8"x 3/32"x 1/16". The specimen is trapped near the middle of one side close to the surface.

31c - A small triangular piece, 1/4"x 3/32"x 1/16"x 1/8", with three polished flat sides. The specimens are at the surface of the largest rough side where it joins the smaller rough side and are less than 1/16" apart.

CONDITION: 31a - Both specimens in this piece are well preserved but, the piece itself is very

crumbly.

31b - This specimen is poorly preserved.

31c - These specimens are preserved in fair condition.

IDENTIFICATION: Homoptera: Psocidae - C. A. S. # 32b.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This large, flat, thin piece, 5/8"x 9/16"x 1/8", is polished flat on one large side.

The circumference areas are dark and the central areas have wispy orange lines running through them. The specimen is just off centre in the middle of the piece, close to the large, rough surface.

CONDITION: A well preserved specimen including an excellent wing.

IDENTIFICATION: Homoptera: Psyllidae? - C. A. S. # 46.

DETERMINATION: K. G. A. Hamilton 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This squared-off piece, 13/32"x 7/32"x 3/16", contours to a point at the corner of one end. All the sides are flat and polished and the specimen lies at the squared end of the piece along the same length that the point is on, near the surface. The piece is wider at the pointed end than the squared-off end.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphididae? - C. A. S. # 56a,56b.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: 56a - A small rough piece, 13/32"x 7/32"x 5/16"x 1/8", almost triangular in shape with one flat and polished side. The specimen lies near the most regular point of the triangle right on the surface beside a light orange pattern in the amber.

56b - A very tiny piece, 5/32"x 3/32"x 1/16", smooth and polished on two sides with the specimen located on the surface of the side opposite the largest polished side seen through a little chipped area.

CONDITION: Both specimen are in fair condition.

IDENTIFICATION: Homoptera: Aphidoid - C. A. S. # 69.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This is a tiny rough piece, 1/8"x 1/8"x 1/16", that is almost square. The specimen lies in one corner beside a fault line and adjacent to a corner cut off by a dark orange line and opposite a dark piece of debris which is beside another darker orange line.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Homoptera: Aphids (2) - C. A. S. # 76.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This multi-sided, wedged piece, $9/32 \times 7/32 \times 3/16$ ", is smooth and polished on all sides. Looking straight down on the piece, balanced on its narrowest length side, the first two specimens are found in the very centre of the piece and the third specimen is below and off to one side of these about half way down an adjacent side.

CONDITION: The first two specimens are in fair condition and the third is an excellent specimen.

IDENTIFICATION: Homoptera: Aphid (wingless) - **C. A. S. # 77b.**

DETERMINATION: C. M. Yoshimoto, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A triangular piece, $1/4 \times 5/32 \times 5/32 \times 5/32$ ", flat and polished on its three length sides. The specimen lies along one of these length sides near the corner with another length side and in a small clear orange area. Closer to the one end with the groove in it than the other rough end.

CONDITION: Good condition.

IDENTIFICATION: Homoptera: Aphididae - **C. A. S. # 92.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A very jagged, irregular, fragile piece, $11/32 \times 5/32 \times 1/16$ ", with two slightly curved main sections. The specimen lies in the curve of the longer, narrower section going into the shorter, fatter section on a darker area right on the bend. It is almost the same colour as the darker speckled area and is difficult to see against that back-drop.

CONDITION: This is a very well preserved specimen.

IDENTIFICATION: Homoptera: (Cercopidae): **HOLOTYPE** ♂ *Jascopus notabilis* Hamilton 1970 - **C. A. S. # 99.**

DETERMINATION: K. G. A. Hamilton, 1970.

PUBLICATION: The Canadian Entomologist, Vol. 103, November 1970 by K. G. A. Hamilton. (pp. 943-946). CNC No. 11628.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This thin piece, $5/16 \times 5/16 \times 1/16$ ", is flat and polished on one side with a crack running the width of the piece cutting off the wide, rough end that bends open. The specimen lies in the middle of this wide end between the end and the crack. The rest of the piece is filled with debris and the corners at the other end of the piece from the specimen end are rounded.

CONDITION: This specimen is very well preserved.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 100.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A triangular shaped piece, $5/16 \times 3/16 \times 1/4 \times 3/32$ ", flat and polished on four

sides. The specimen lies not too far from the middle of the piece toward the angle formed by the longest side of the triangle and the shortest side. Two other dark specks lie on either side of the specimen and all three specks are encased in a circle, perhaps a bubble. There are two black points of debris from the intermediate sized side of the triangle and orange "swirls" fill the interior of the piece.

CONDITION: This specimen is in fairly good condition.

IDENTIFICATION: Homoptera: Aphid - C. A. S. # 106.

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This drop-like piece, $7/16$ "x $3/16$ "x $1/8$ ", is clear yellow with some orange areas scattered through it. One length is flat and polished with the rest of the drop rounded except for the almost squared end. The specimen lies near the rounded end almost half-way between the flat surface and the peak of the curve of the circumference of the drop.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphid - C. A. S. # 109.

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This larger, flat piece, $19/32$ "x $1/12$ "x $5/32$ ", is polished smooth on its two large sides. The specimen lies in the clear yellow middle of the piece beside a brownish orange speck that almost looks like a wing tip and a thin orange area that runs the width of the piece. There are other areas of light debris in the piece also.

CONDITION: This specimen is fairly well preserved.

IDENTIFICATION: Homoptera: Aphids (3) - C. A. S. # 112.

DETERMINATION: M. MacKay, 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This $1/2$ "x $3/8$ "x $1/4$ " piece is flat and polished on two sides. It contours so that one length side is very much narrower than its opposite length side, almost becoming a pointed edge. This side has a large "hunk" chipped out of one end of it. The specimens are in the side opposite this one, right about the middle. One specimen lies on top of another and a third is very close by in a clear area. The two together are found along a fuzzy area that stretches almost the full length of the side. Another of these fuzzy, almost cracked looking areas runs lengthwise through the heart of this piece.

CONDITION: These specimens are in good condition.

IDENTIFICATION: Homoptera: Aphids (4) - C. A. S. # 114.

DETERMINATION: J. F. McAlpine 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This very tiny piece, $7/32$ "x $3/32$ "x $3/32$ ", is flat and polished on one side and rounded smooth on another with its third side remaining rough. Looking at the piece through the rounded side, the more pointed end has a large dark area covering the whole

point with the opposite end having some more black debris. The first specimen lies half-tucked under the large black area towards the middle of the piece and a second specimen is just a little further towards the centre. The third and largest specimen is at the surface of this rounded side about half-way between the two ends and a fourth is right beside the third.

CONDITION: These specimens are in fair condition.

IDENTIFICATION: Homoptera: Anthocoridae? - **C. A. S. # 115.**

DETERMINATION: M. MacKay, 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This 1/2"x 7/16"x 3/16" piece is flat and polished on one side with a large chip on the surface of the opposite large side. The first specimen is found on the lip of this chip on the highest raised side and the second specimen is beside the first in this same raised area but along the edge of the piece.

CONDITION: Both specimens are in good condition.

IDENTIFICATION: Homoptera: Scale insect? (see Eriococcus) - **C. A. S. # 119.**

DETERMINATION: M. Mackay, 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This very tiny, crumbly piece, 3/16"x 3/16"x 1/16", is very fragile, filled with cracks. There is one dark area near the edge of the piece forming a point and another in the middle near one of the large surfaces. The specimen is near the opposite large surface to this second black area and just beside it. Two corners of the almost square piece have crumbled off.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 120.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This larger piece, 9/16"x 7/16"x 3/16", is flat and polished on two large sides and one smaller side. The two specimens are right near each other close to the smaller flat side about 1/3 of the way across from the rounder end of the piece. There are eight or nine other dark specks in this piece of whirling orange and yellow.

CONDITION: These specimens are in good condition.

IDENTIFICATION: Homoptera: Aphid? - **C. A. S. # 121b.**

DETERMINATION: M. MacKay, 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost rectangular piece, 3/8"x 7/32"x 5/32", is smooth and polished on all sides with two flat length sides, the specimen being closer to the narrower one. This specimen is found near the surface about half way between the curved end and the wedge-wise groove carved in this side.

CONDITION: Both these specimens are in fairly good condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 122.**

DETERMINATION: R. Richards, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small triangular piece, $7/32$ "x $3/16$ "x $1/4$ "x $3/16$ ", flat polished on all sides (five). The specimen lies near the side with the groove in it that cuts off one angle of the triangle. The insect is trapped along the only line of debris in the piece and partly in a little fault.

CONDITION: This specimen is well preserved but in a difficult place to see it.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 124.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This tiny piece, $1/4$ "x $7/32$ "x $5/32$ ", is flat and polished on one large side and two smaller sides. Four of the specimens may be seen clearly, through the large flat side, surrounding the tiny chip on the surface and a fifth specimen is beside a fault along one of the opposite sides, leading to the point of the piece, in the clear yellow. The other side leading to this point is lined with orange fault areas and has a black area at the point.

CONDITION: These specimens are well preserved.

IDENTIFICATION: Homoptera: Thysanoptera: (Thrips) - **C. A. S. # 132.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This large multi-sided piece, $5/8$ "x $1/2$ "x $1/4$ ", has one large flat and polished base surface. The specimen is in the very centre of the piece close to where the only other two flat and polished surfaces meet. This piece is smooth and polished on all sides, clear yellow with light orange patterns throughout.

CONDITION: This specimen is excellently preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 137.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This is a narrow droplet, $1/2$ "x $3/16$ "x $1/8$ ", more pointed at one end than the other and polished smooth on all sides. The specimen is easily seen near the blunter end.

CONDITION: This specimen is in good shape.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 138.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This long piece, $9/16$ "x $1/4$ "x $5/32$ ", is flat and polished on its two large length sides. The specimen lies toward the pointier, thinner end of the piece in the only clear area. The remainder of the piece has longitudinal light and dark orange line running the length.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 145.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This piece, 11/16"x 1/2"x 3/16", has most of its debris along one shorter length side. The rest of the piece is fairly clear yellow. The two specimens are along the widest end close to the surface opposite the surface with the lengthwise groove in it.

CONDITION: These specimens are in good condition.

IDENTIFICATION: Homoptera: Psocids (2) - **C. A. S. # 146.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This 7/16"x 7/16"x 13/32" piece is smooth except for the side where it was broken off another piece. The two specimens are in the clearest corner of the largest side near the surface. They are situated side by side near the only air bubble in the piece.

CONDITION: These specimens are in good condition.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 148.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This fairly smooth and rounded piece, 17/32"x 5/16"x 3/16", is fatter and pointed bluntly at one end and rougher, thinner, and wider at the other. On the longest curved side where it joins the wider end of the piece a large crack may be found where a large chunk has been glued back to the main piece. Two specimens lie in the middle of this glued piece and two other specimens are very near the crack on the point side of the repair work.

CONDITION: These specimens are in good shape.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 153.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This large piece, 1/32"x 7/16"x 3/8", has two flat and polished surfaces to mark the aphid specimen which lies near the wider end of the piece close to the broken surface that runs the length of the piece. It is easy to see in the slightly cloudy orange. Also contains an additional aphid and beetle deep in black.

CONDITION: These specimens are well preserved.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 160.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This flat 5/8"x 7/16"x 1/8" piece has a whitish yellow mineral mixed with the amber for at least half of one large side and one quarter of the other. The specimens lie in

the middle of the clearer end, one on top of the other. Their condition is blurred by a white speck of debris on one side.

CONDITION: These specimens are in fair shape.

IDENTIFICATION: Homoptera: Thrips? - **C. A. S. # 161.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This piece, 1/2"x 1/2"x 3/16", is smooth and polished on one side, the side holding the specimen close to the surface (near the side with the groove in it) down towards the adjacent corner from the pointiest corner of the piece.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 164.**

DETERMINATION: K. G. A. Hamilton, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This small piece, 3/8"x 3/16"x 5/32", holds the specimen in the widest end opposite the pointed end, up slightly on the hump that forms one whole length side. This piece is cloudy orange-yellow with some debris.

CONDITION: This specimen has some parts in good condition but most of it is only fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 165.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This piece, 5/16"x 5/16"x 3/16", is fairly clear yellow with some orange areas and debris. The specimens lie near the thickest pointiest corner of the piece in the centre of the amber.

CONDITION: These two specimens are well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 168.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: Most of this 5/16"x 1/4"x 3/16" piece is a hard, rough coloured rock with the rest a light yellow, rough amber. The specimen is near where the two join, about the middle of the piece.

CONDITION: The specimen is well preserved.

IDENTIFICATION: Homoptera: Aphids? (2) - **C. A. S. # 169.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This triangular 15/32"x 13/32"x 15/16"x 1/8" piece, has one side, with the round indentation in one corner, clearer than the other large side with the black crack running through it. The specimens are in an opposite corner to this indentation beside the black area on the curved surface that runs the whole length of this opposite side. Some of

the other debris in this piece may be proved to be insect upon further study.

CONDITION: J. F. McAlpine, 1972.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 171.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This piece, $17/32$ "x $11/32$ "x $7/32$ ", is narrower at one end than the other with a width-wise groove on one large side towards the narrower end. The two specimens are closer to the opposite side to this groove in the widest and thickest area of the piece. A third specimen may be close by?

CONDITION: These specimens are well preserved.

IDENTIFICATION: Homoptera?: Aphid? - **C. A. S. # 172.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This $13/32$ "x $3/8$ "x $5/16$ "x $3/16$ " dark triangle holds the specimen, trapped beside a crack that cuts off one corner, in the side opposite the corner with the deep groove in it. The rest of the piece is full of debris. (Possibly another specimen).

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 176.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This tiny piece, $3/16$ "x $5/32$ "x $3/32$ ", has two flat surfaces and one pointed corner. One side, opposite this corner, is slightly "V"- shaped holding the specimen at the bottom of the "V" in the very heart of this piece. A large dark piece of debris extends from the opposite side to the specimen.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 178.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This rounded wedge piece, $3/16$ "x $3/16$ "x $3/32$ ", is clear yellow, smooth and polished. The specimen is in the middle of the end side opposite the point of the wedge.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 180.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This large, flat, irregular piece, $15/16$ "x $5/8$ "x $1/8$ ", is polished on both large surfaces and full of debris. One rough end has both corners broken off, one resulting in a large curve toward the middle beside which two specimens are found. The other two specimens are in the adjacent corner, the most rounded and regular of the piece.

CONDITION: Only part of the beetle is preserved but the other three specimens are good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 181.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This triangular piece, $11/16" \times 19/32" \times 17/32" \times 1/4"$, is clear yellow with a little debris. The specimen lies in the middle of the amber between the two parallel lines carved on the surface of one large side.

CONDITION: This specimen is fairly well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 182.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This small thin piece, $1/4" \times 1/4" \times 3/32"$, is rough around the edges, fairly clear yellow and orange, with a little debris. The specimen is plainly seen in its only point.

CONDITION: This specimen is in good shape.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 183.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This tiny triangular piece, $7/32" \times 7/32" \times 3/16" \times 5/32"$, has one side that curves in toward the middle of the piece, to the thinnest point. The tiny specimen lies near this point, in this orange piece, with two bubbles between it and the point, the second having debris in it.

CONDITION: This is a good specimen.

IDENTIFICATION: Homoptera: Aphid: (Paleoaphis?) - **C. A. S. # 184.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This triangular piece, $9/32" \times 7/32" \times 3/16" \times 3/16"$, has four flat and polished surfaces. The specimen is found where these four sides come together to a point.

CONDITION: This specimen is fairly well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 185.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This small rounded piece, $1/4" \times 1/4" \times 3/16"$, is smoothly polished on all sides. One flat side has a groove its full length. The specimen lies in the middle of the opposite side amid bits of debris.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphids: Paleoaphis (7) - **C. A. S. # 186.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This triangular piece, 11/16"x 5/8"x 5/8"x 1/4", has a groove along one side and another in an adjacent corner. Just in the interior from this corner are five specimens fairly close to each other in this debris filled piece. About one third of the way down from the adjacent corner along the opposite side another small specimen is found beside the only big specimen.

CONDITION: All these specimens are fairly good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 187.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This flat yellow piece, 5/16"x 5/16"x 1/16", is flat and polished on three sides. The specimen lies about half-way along the smallest of these flat surfaces close to the large flat side with the grooves in it.

CONDITION: This specimen is poorly preserved.

IDENTIFICATION: Homoptera: Aphidoidea: Adelgidae? - **C. A. S. # 200.**

DETERMINATION: W. R. Richards, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This clear yellow-orange piece, 1/4"x 1/8"x 1/16", holds the specimen near the less pointed end right in the middle. The perimeter of the piece is a little darker.

CONDITION: This specimen is in good condition, all features clearly seen.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 201.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This clear light orange triangle, 5/16"x 7/32"x 1/4"x 1/8", is flat and polished on four of its five sides with the specimen trapped in the very middle beside a fault that extends to one of the angles, the one opposite the longest side.

CONDITION: This is a good specimen.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 203.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This 5/8"x 5/16"x 1/4" piece is flat and polished on one of the narrow length sides, dark orange in colour with some debris and the other sides smooth and rounded.

The specimens lie in the very middle close to the flat surface and the large length side with the groove in one end of it.

CONDITION: All specimens are well preserved.

IDENTIFICATION: Homoptera: Aphidoidea (caste skin?) - **C. A. S. # 208.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This 3/8"x 3/8"x 1/4" piece swells from a smooth rounded base to a smooth rounded point. The specimen lies near the short, flat and polished side opposite the point about half-way between the two large surfaces.

CONDITION: This specimen is only fairly well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 210.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This very tiny piece, 1/8"x 5/32"x 3/32", has a flat end and a "v"-shaped end which holds the specimen in the thicker arm of the "v". One large side is rounded with the other flat and rough.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 216.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This wedge shaped piece, 9/32"x 1/4"x 3/16", has a large circular chip out of the large flat and polished length (from the point to the opposite end) side, the other side being mostly smooth and rounded. The specimen lies very near the surface of the slightly rough second most marked side of the length opposite the sharp edge of the wedge near the wide end of the piece.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 221.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This small piece, 7/32"x 3/16"x 1/8", is flat and polished on two sides and rounded smooth on the others. The specimen lies in some dark orange amber where the two flat sides come together to a point. A black speck of debris is found in the very heart of this orange and yellow piece.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 232.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This 5/8"x 15/32"x 1/8" yellow piece is filled with debris and almost straight along one side with the other sides curved. The specimen lies in one corner of the straight side cut off fully by a groove on one side and partially by a shorter groove on the other large side.

CONDITION: This is a fair specimen.

IDENTIFICATION: Homoptera: Aphid: Paleoaphis? - **C. A. S. # 233.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This clear yellow triangular shaped piece, $13/32$ "x $3/16$ "x $3/8$ ", is flat and polished contouring to a point at one end with the specimen lying in the rearmost corner to this point. There is very little debris only on the edges of the piece.

CONDITION: This specimen is fairly well preserved.

IDENTIFICATION: Homoptera: Aphid - C. A. S. # 234.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This very clear orange-yellow $7/16$ "x $9/32$ "x $1/8$ " piece is flat and polished with rounded edges except for one straight length side along which the specimen lies toward the thinner end of the piece.

CONDITION: This is a very good specimen.

IDENTIFICATION: Homoptera: Aphid - C. A. S. # 235.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This fairly clear rounded edge piece, $3/8$ "x $11/32$ "x $3/32$ ", is flat and polished on its two large sides. The specimen lies in the thinnest, narrowest, rounded end near the smaller flat area beside small pieces of debris.

CONDITION: This specimen is fairly well preserved.

IDENTIFICATION: Homoptera: Aphids (2) - C. A. S. # 237.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This polished $7/16$ "x $3/8$ "x $3/32$ " piece is flat on one large surface with all the narrow sides curved except for one almost straight side. The two specimens are near this straight side, one in the corner closest to the groove on the large flat side and the other on the opposite side of the groove. These specimens are close to the opposite surface to the groove.

CONDITION: These specimens are in fair shape.

IDENTIFICATION: Homoptera: Aphid - C. A. S. # 238.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This small $5/16$ "x $5/16$ "x $3/32$ " piece, has a very dark, debris filled end with one large side of the piece flat. The specimen lies in the opposite light orange and yellow end to the dark end in the clearest rounded tip of the piece exposed on the flat side.

CONDITION: What remains of this specimen is well preserved.

IDENTIFICATION: Homoptera: Aphids (2) - C. A. S. # 239.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This clear 15/32"x 1/4"x 1/8" orange and yellow piece is thicker and wider at one end than the other with the two length sides flat and polished. The first specimen is trapped along one narrow length side near where it curves in toward the middle of the piece and the second lies at the wide end near the middle.

CONDITION: Both these specimens are in fair condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 241.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This long double pointed piece, 11/16"x 9/32"x 5/16", is polished smooth on all sides and filed to a sharpened point at the end opposite the rounded point at the other end. The specimen is in this filed point near the surface of the longest slightly curved length side that is clearest of the fairly clear yellow piece.

CONDITION: This specimen is in poor condition.

IDENTIFICATION: Homoptera: Coccoidea (scale insect) - **C. A. S. # 242.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This tiny piece, 1/4"x 3/16"x 3/32", hooks around to a point at one end with one length side almost flat and polished. The tiny specimen lies in the widest and thickest part of the piece in a clear yellow area beside a darker orange area that stretches longitudinally down the length of the piece.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Homoptera: Aphid (and insect?) - **C. A. S. # 247.**

DETERMINATION: Gillespie, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This wedge-shaped piece, 7/16"x 11/32"x 3/16", is flat and polished on the two large sides leading to the rounded wedge edge. One end bulges to a rounded point, the thickest part of the piece, holding one specimen in the rounded polished surface coming off the smaller of the two large wedge surfaces. The second specimen is down toward the middle of the piece in the heart of the amber.

CONDITION: The first specimen is good but the second is only in fair condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 248.**

DETERMINATION: W. R. Richards, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This 3/8"x 7/32"x 1/8" piece is flat and polished on one large length side, stretching almost to a point at one end and straight at the other. The specimen is trapped about the middle of the piece right by a fault and an irregular orange line. Wispy crack-like lines fill the middle area above the specimen but the piece is free of debris.

CONDITION: This is a very good specimen.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 249.**

DETERMINATION: Gillespie, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This small wedge-like piece, $11/32" \times 1/4" \times 5/32"$, is flat and polished on one large length side. The specimen lies near the large untreated side in the middle of the gradual groove that distinguishes this side of the piece. Along the wedge of the piece are a few faults, a little debris and a chip on each of the two large surfaces, the flat side one being very near the surface.

CONDITION: This is a good specimen.

IDENTIFICATION: Homoptera: Aphids (8) - **C. A. S. # 252.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Piece is $1/8" \times 1/2" \times 9/16"$. All eight specimens are seen on smoother of the two large flat sides.

CONDITION: Four in good condition, four in poor condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 253.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This four sided piece, $1/8" \times 11/32" \times 1/2"$ has one irregular side. The specimen can be seen through the side of the piece opposite the irregular side.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 255.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This tiny piece, $3/32" \times 5/32" \times 3/16"$ has one large flat smooth side. The specimen is found in the corner of this side.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids - **C. A. S. # 257.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimens are in two of the three corners of this $15/16" \times 11/16" \times 1/8"$ piece.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Adelgidae - **C. A. S. # 259.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This $9/32" \times 5/16" \times 1/8"$ piece has an oval-shaped groove along the rounded edge joining two sides. The specimen is easily located in this groove.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 260.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $9/32'' \times 5/32'' \times 1/8''$, has a section jutting out from the top right hand corner. One specimen is found at the top of this section and the other is on the right angle joining this section to the rest of the piece.

CONDITION: One good, one poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 261.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Two sides of this piece, $11/32'' \times 3/16'' \times 3/32''$, meet in a narrow edge. The specimen is found towards the end of this edge which is contained in the file groove on the smoother of the two sides.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 265.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This small piece, $9/32'' \times 5/32'' \times 3/32''$, has one polished side. The specimen is located in the corner of this side near the thinner piece jutting out.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 266.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: On one of the large sides of this piece, $9/32'' \times 5/32'' \times 3/32''$, there are some darkish arcs across the width. The specimen is located at the base of these arcs.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 269.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $5/16'' \times 3/16'' \times 3/32''$, has two edges meeting in a corner at a point. One specimen is at this point and the other is in the opposite corner.

CONDITION: One is in good condition but the other is in very poor condition as complete insect can not be seen.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 270.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This arrowhead shaped piece, $15/32'' \times 11/32'' \times 1/16''$, has a large smooth flat side with three points at one end. The specimen is near the middle point.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 271.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: There is a specimen near each of the four corners of this rectangular piece $11/32'' \times 5/16'' \times 3/32''$.

CONDITION: Good.

IDENTIFICATION: Homoptera: Adelgidae? - **C. A. S. # 273.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $3/8'' \times 9/32'' \times 1/8''$, has a round indentation in the corner of the large flat side. The specimen is located in the complimentary corner of that side.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 274.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $11/32'' \times 1/4'' \times 3/32''$, has one rough edge. The specimen is located near the end of the rough edge which is opposite the longest side.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 279.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: There are five specimens found in this piece, $11/32'' \times 3/16'' \times 1/16''$.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 280.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $9/16'' \times 9/32'' \times 5/32''$, has a large nick at the top of one of the sides. Below the nick, the cracks in the piece form a square. The specimen is inside the square.

CONDITION: Good.

IDENTIFICATION: Homoptera: Adelgidae? (2) - **C. A. S. # 281.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This clear piece, $9/32'' \times 5/32'' \times 3/32''$, has a point jutting out from it. The two specimens are found close together near the point.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 284.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in the centre of this clear piece.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 289.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is at the pointed end of this 5/16" x 1/8" x 3/32" piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 291.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: At the end of this 3/8" x 9/32" x 1/4" piece, two sides come together at an edge.

The specimen lies near the crack perpendicular to this edge.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 292.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in this piece, 9/32" x 1/8" x 3/32" near the surface
in the middle of one side.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 294.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in the middle of this tiny clear piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 302.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in the centre of this clear piece.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 304.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: On one of the ends of this piece there is a large deep gouge which overlaps the edge separating it from a large flat side. The specimen is located just above the large flat side.

CONDITION: Good.

IDENTIFICATION: Homoptera: Adelgidae (4) - **C. A. S. # 305.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The four specimens are all clearly seen on the same side of the piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 306.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this clear piece.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids - **C. A. S. # 307.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this clear piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 308.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimens are located in three of the four corners of the large flat side.

CONDITION: All in good condition.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 309.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece has a large point at one end of it. One specimen is near the point and the other is a little further in towards the centre.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid (winged) - **C. A. S. # 310.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: On one side there is a small round indentation. The specimen lies beside this indentation.

CONDITION: Good.

IDENTIFICATION: Homoptera: Leafhopper - **C. A. S. # 311.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this clear piece.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 313.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: There is a right angle cut out of one of the corners. The specimen lies above the right angle.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 316.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: There is a "v"-shaped nick taken out of the sides of the piece. The specimen lies along the edge near the "v".

CONDITION: Good.

IDENTIFICATION: (a) - Homoptera: Scale insects (3) - **C. A. S. # 317.**

(b) - Homoptera: Aphid.

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The three good specimens are on one side of the piece close together and the poor specimen lies on the other side near an edge.

CONDITION: 3 good, 1 poor.

IDENTIFICATION: Homoptera: Scale insect - **C. A. S. # 318.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located right in the heart of this clear piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 322.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this tiny piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 323.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This specimen is easily seen in this clear tiny piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 324.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One end of this piece juts out more than the other. The specimen lies at the opposite end of the piece from this longer end.

CONDITION: Good.

IDENTIFICATION: Homoptera: Scale insect - **C. A. S. # 328.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen lies on the flat base of this kettle-shaped piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 333.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The 2nd largest piece has the wing venation and body of the neuropteran and each of the two smallest pieces contains at least one aphid nymph.

NOTE: (Made April 9th, 1974) - The neuropteran is in the medium-sized (2nd largest) piece; it is located on the pointed portion very near the surface more or less between the two smaller lobes of the point. Head - antennae - thorax - legs - abdomen, genitalia, 2 right wings and most of left wings present. Counterpart of one wing on small piece.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 338.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 339.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One end of the piece has a hook-like appearance upon which two specimens are found. A third is found in the centre of the piece and the fourth at the end opposite the hook.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 344.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: There is a "y"-shaped fracture coming out from the corner that the piece is in.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 346.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 348.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The five specimens form a semi-circle in one corner of the piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 349.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 350.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids: Adelgids (3) - **C. A. S. # 355.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One specimen located on each side of the piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 356.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is located on the rounded point of the piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Adelgids (2) - **C. A. S. # 357.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Both specimens are on the rounded side, one near the flat end and one in the centre.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 358.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: All specimens are easily located.

CONDITION: Two good, one poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 361.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 362.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 363.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 364.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 366.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 367.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 370.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: On one side of the piece there is a large crack running the length of it. The specimen lies in a semi-ovular clearing beside the crack.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 373.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 374.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 377.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 388.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 390.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen lies in the "v"-shaped crack at the wider end of one of the sides of the piece..

CONDITION: Good.

IDENTIFICATION: Homoptera: Scale insect - **C. A. S. # 391.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 393.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Adelgid? - **C. A. S. # 394.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 401.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 402.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (6) - **C. A. S. # 403.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 407.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid: Cixiidae (head); Cercopidae (wing) (3) - **C. A. S. # 410.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located. Same piece as **C. A. S. # 411** and **C. A. S. # 412**.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids (7) - **C. A. S. # 411**.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Same piece as **C. A. S. # 410** and **412**.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids (3). (see **C. A. S. # 410** - (1) Cercopidae? (wing)) - **C. A. S. # 412**.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Same piece as **C. A. S. # 410** and **C. A. S. # 411**.

CONDITION: 1 good, 1 poor, 1 wing base.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 413**.

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids - **C. A. S. # 417**.

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 418**.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The two specimens lie one on top of the other at the end of the piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 428**.

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Membracidae - **C. A. S. # 432**.

DETERMINATION: K. G. A. Hamilton, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 436.**
DETERMINATION: K. G. A. Hamilton, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 435.**
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 437.**
DETERMINATION: K. G. A. Hamilton, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 441.**
DETERMINATION: K. G. A. Hamilton, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 443.**
DETERMINATION: W. R. Richards, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 445.**
DETERMINATION: K. G. A. Hamilton, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 449.**
DETERMINATION: K. G. A. Hamilton, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera (2) - **C. A. S. # 450.**
DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: There is a section cut away at one of the ends of the piece. One specimen is on the narrow top edge and the other on the large flat side.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 453.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 452** and **C. A. S. # 454.**

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 454.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 452** and **C. A. S. # 453.**

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 458.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 465.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 466.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 467.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Alatoïd (nymph) - **C. A. S. # 468.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 470.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 469.**
CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid (winged) - **C. A. S. # 476.**

DETERMINATION: W. R. Richards, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 477.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 479.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 489.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 490.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily located.
CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 491.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 495.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids - **C. A. S. # 499.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 500.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Psocid (wing) - **C. A. S. # 521.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 533.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 536.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: scale insect - **C. A. S. # 539.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 540.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 544.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 549.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Small, odd shaped piece.

CONDITION: Good.

IDENTIFICATION: Homoptera: Thysanoptera: Aeolothripidae - **C. A. S. # 550.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 551.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 557.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 558.**
DETERMINATION: J. F. McAlpine, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 559.**
DETERMINATION: J. F. McAlpine, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 563.**
DETERMINATION: J. E. H. Martin, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 566.**
DETERMINATION: J. E. H. Martin, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 570.**
DETERMINATION: J. E. H. Martin, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimens easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 573.**
DETERMINATION: J. E. H. Martin, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 575.**
DETERMINATION: J. E. H. Martin, 1973.
COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 576.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Scale insect - **C. A. S. #579.**

DETERMINATION: K. G. A. Hamilton, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 581.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 582.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 585.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 586.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 588.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 592.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 595.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 597.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 600.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Both specimens in good condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 603.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 605.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 607.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: All five specimens in good condition.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 608.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Three good, one fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 609.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 610.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 611.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 620.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 621.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 625.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 626.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 632.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 634.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 635.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 636.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: All three specimens in good condition.

IDENTIFICATION: Homoptera: Aphids (10) - **C. A. S. # 637.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 638.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 639.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid (winged) - **C. A. S. # 641.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 653.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One in poor condition, one in good condition.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 654.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 655.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 660.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 663.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 670.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 677.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 679.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 680.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Two good, one poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 681.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 689.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one poor.

IDENTIFICATION: Homoptera: Scale insect - **C. A. S. # 691.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera? - **C. A. S. # 693.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 700.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 703.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 707.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 712.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 715.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 719.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 725.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 726.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 728.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: (a) - Homoptera: Aphid - **C. A. S. # 732.**

(b) - Homoptera: Cicadellidae: Ledrini.

(c) - Homoptera: Thysanoptera.

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 734.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Scale insect - **C. A. S. # 739.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: (a) - Homoptera: Aphids (8) - **C. A. S. # 741.**

(b) - Homoptera: Scale insects (7).

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Cicadellidae: Petalocephala - **C. A. S. # 745.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 746.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 752.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 753.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 755.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 757.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 758.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 760.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 771.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 772.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 773.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 776.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 780.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 782**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 783.**

DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 784.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 790.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 793.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 796.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 797.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 800.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimens easily seen.
CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 801.**
DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (9) - **C. A. S. # 804.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimens easily seen.
CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 805.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 809.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 814.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimens easily seen.
CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 816.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 817.**
DETERMINATION: K. G. A. Hamilton, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 820.**
DETERMINATION: J. F. McAlpine, 1974.
COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Jascopidae - **C. A. S. # 822.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 825.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 827.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 828.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (15) - **C. A. S. # 833.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 834.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 835.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 836.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 837.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 838.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 841.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 842.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 843.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 846.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 847.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 848.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Caliscelidae - **C. A. S. # 852.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphid (winged) - **C. A. S. # 853.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Scale insect - **C. A. S. # 858.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (9) - **C. A. S. # 859.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 860.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 861.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 862.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid (winged) - **C. A. S. # 868.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 871.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 872.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 873.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 874.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 875.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 876.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimens easily seen.
CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 877.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 883.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 888.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 889.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 890.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.
DESCRIPTION: Specimen easily seen.
CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 891.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 892.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 893.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 896.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 897.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 898.**

DETERMINATION: W. R. Richards, 1974

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 902.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Homoptera: Thysanoptera - **C. A. S. # 910.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Cicadellidae: Typhloybini - **C. A. S. # 917.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: In piece 3/8"x 1/4".

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 921.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece about 1/2"x 3/4", rounded corners. Specimen on back. Only five legs visible.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 923.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 5/8", light amber. The three specimens are found in close proximity to each other.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 925.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/8"x 1/4", amber is coloured both in a dark and light band. Specimen is in the smaller light band.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 926.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/16"x 1/4", medium coloured amber.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 927.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 3/4", dark amber. Three specimens are scattered and only partly visible.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 928b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/8"x 3/4". Specimen's left antennae forward, right antennae best at right angles.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 932.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/8"x 3/8", half circular in shape. Two of the four specimens are only partially present.

CONDITION: Good and fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 933.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In a piece 3/8"x 1/2". Specimen on its side.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 934.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In a piece, 1/4"x 1/3", two specimens - both have distended legs.

CONDITION: Fairly good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 936.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2". The aphid specimen has distended legs. The Psocoptera is present only in the head and mouthpieces.

CONDITION: Aphid is very good, Psocoptera - poor - head, antennae present only.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 938.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In a piece 3/4"x 3/8", specimen has legs extended.

CONDITION: Good.

IDENTIFICATION: Homoptera: Thysanoptera - **C. A. S. # 939.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 3/8". Specimen has five legs and both antennae visible.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 940.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2". Specimen is winged, with only one wing clearly visible.
Legs are extended but twisted.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 941.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/4". Aphid has only two middle and two hind legs visible.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 943.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 3/8". Specimen has only four legs visible, missing one front and one middle leg. Two antennae directed at right angles to each other.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 946.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/4"x 1". Specimens antennae at right angles to head.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 949.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1". Semi-circular piece. Specimen has antennae extending at right angles to body.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 950.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/2". Specimen on its side. One hind leg is pointed back, one towards the specimens front.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 951.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2". Specimen has one antennae pointed up, the other down.
CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 956.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/3" semi-circular amber. Specimens left antennae is directed forward, his right one backward and downward.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 959.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/2". The two specimens are close together, one in a brownish stain, the other in clear amber.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 962.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/4"x 3/4". Three specimens; two together in excellent condition, one apart, heavily fragmented.

CONDITION: Two excellent, one poor.

IDENTIFICATION: Homoptera: Aphids (5-6) - **C. A. S. # 963.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 1/2", light amber. Amber contains five-six specimens plus fragments.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 969.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2" dark amber. Right leg and proboscis extended.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 970.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 2/3". Includes in piece a clump of peculiar hairs on the same side as the darkest aphid.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 973.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/4"x 1 1/4" light amber. Specimen has one leg obscured from sight.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 974.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 2/3" rounded. Specimen near edge of piece and is fragmented.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 975a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 5/8". The two aphids are clumped together, with legs extended.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 975b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/3" very thin amber. The three specimens are somewhat fragmented.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 975c.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 5/8". One aphid is complete, the other has only the back half in the piece.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera: Aphid (winged) - **C. A. S. # 976.**

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/2". Specimen on edge - wings and part of abdomen alone remain.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 977.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2". Specimen fragmented - only four legs visible.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 978.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/2". Contains four specimens - one on the surface partially exposed, the other three scattered throughout.

CONDITION: Three excellent, one fair.

IDENTIFICATION: Homoptera: Aphid (larva) - **C. A. S. # 980.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 3/4", semi-circle. Specimen is highly fragmented. There are abundant inclusions of unknown origin in piece.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 984.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 5/8". Amber contains two female Chironomidae, one heading to left, other heading straight upward above the first one. One Mycetophilidae with wings, legs and abdomen visible, in the edge of the piece directly behind the first Chironomid.

Two aphids found below the Chironomids, one in side view, other in dorso-ventral view.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 988.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 7/16". Specimens visible from side - one leg and antenna extended above thorax.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 989.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/2", dark amber. The three specimens are clumped together in the one clear corner of the stone.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 990.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 3/8", triangular piece. Specimen reddish coloured in a lemon yellow piece.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 991.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/2". Contains a reddish coloured aphid, and a Diptera, visible from the rounded face near a fractured area. Amber is yellow containing a variety of fragments.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 992.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 2/3", triangular. Specimen is red in colour, and presents a lateral view.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 993.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 7/8" rounded. Reddish stain near head of best specimen.

CONDITION: Two poor, one very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 994.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/3", rounded. Stone contains one Aphid and one unidentified Arthropod.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 995.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/2". Specimen located in the centre of a clear yellow piece.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 998.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 5/8". Amber is full of fragments; the specimen being fragmented itself.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1000.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/3". Mouthparts extended beyond body for a distance equal to body length.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 1003.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/2". One specimens antennae both curve down. The other, a very small aphid, is visible from the other side only.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1004.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/3", drop shaped. Specimen is located next to a brown-red stain.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 1005.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 3/4". Piece contains two Aphids, one large and one small, separated by a rod-like structure, probably plant.

CONDITION: One fair, one good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1006.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/3". Specimen has legs on left side only.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1009.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In broken piece 7/8"x 1/2". Specimen is male, with both wings exposed flat. Also present is an Aphid, unusually elongated.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1010.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 5/8". Contains three left, and part of a fourth, legs of a spider, right on the surface - white in colour - Aphid is visible on flat side, being parallel to surface.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 1011.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 5/12". Legs outstretched for one, not visible for the other specimen.

CONDITION: One excellent, one good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1012.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 3/16". Specimens antennae are at right angles to body.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphids (6-7) - **C. A. S. # 1018.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 2/3", light amber. Piece contains large fragment of leaf. Aphids are strung out in a line.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphids (7) - **C. A. S. # 1019.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 3/8", dark amber. Specimen contains a pair of Diptera wings, under which lies an Aphid. Four of the seven Aphids are clumped together with a complete Diptera. Of the Aphids, six are large and black, one being very small and light coloured. The two Diptera legs present are found just beyond the clump of four Aphids.

CONDITION: Good to very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1022.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/4". Contains an Aphid right against broken side.

Hymenoptera slightly obscured by cloudiness of amber. From same stone as **C. A. S. # 1023.**

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1023.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/2", rounded. Specimen has right antenna bent upwards. From same stone as **C. A. S. # 1022** - large black Aphid.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (9) - **C. A. S. # 1029.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 3/8". Aphids are found running in a line throughout the length of the piece.

CONDITION: Fair to excellent.

IDENTIFICATION: Homoptera: Aphidoidea (Aphid or Scale insect)? - **C. A. S. # 1032.**

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/3", triangle. Specimen near surface. A possible rostrum is visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 1034.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 5/8". Contains one very large Aphid, with a high hump on its back. Also contains a more regular Aphid.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (7) - **C. A. S. # 1041.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 5/8", triangular. Aphids are contained in two clumps of three with one solitary Aphid off to the side. Aphids are quite small.

CONDITION: Good to very good.

IDENTIFICATION: Homoptera?: Aphid? - **C. A. S. # 1042.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 2/3", rounded. Specimen is near surface, and has been compressed as to make identification difficult.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 1051.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/2". The two Aphids are near the surface. One is somewhat fragmentary, but the legs are outstretched, the other, the body is good but no legs are visible from the top view, only from bottom - both lie almost together.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera: Aphids (2) - **C. A. S. # 1055.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 2/3", medium dark amber. The specimens are at opposite corners, one on its side, the other on its back.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid - **C. A. S. # 1056.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/3", dark amber. Specimen on its side deep in the amber.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphids (13) - **C. A. S. # 1057a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/8"x 3/4", from same stone as **C. A. S. # 1057b.** Contains thirteen Aphids, clustered in groups of three to five. The Collembola can be seen from the largest flat surface adjacent to the row of five Aphids. Also contains an Acarina in the rounded bulge of the stone.

CONDITION: Fair to excellent.

IDENTIFICATION: Homoptera: Aphids (5) - **C. A. S. # 1057b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/8"x 1/2". All specimens are in the same proximity.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid. - **C. A. S. # 1060a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2". Contains three specimens - an Acarina in a bubble, an Aphid, and a female Chironomidae. The Diptera and Aphid being right next to one another.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid - **C. A. S. # 1060b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2", thin. Specimens right antenna is bent at a 45° angle, the left is curved under the specimens body.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Coccoidea - **C. A. S. # 1061.**

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2", thin amber. Contains a male scale insect in one corner, two mites together but at different depths, and two or three spider legs on another side.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid - **C. A. S. # 1063.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 2/3", darkish amber. Specimen has only one leg visible.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid - **C. A. S. # 1064.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2". Contains a small mite near surface of one side, and an Aphid visible from the other side.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1065.**

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 5/8". Specimen very large for Aphidoidea - does not look like an Aphid. Body itself in somewhat poor condition.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid - **C. A. S. # 1069.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 3/4". Large spider in centre of piece - tips of two of its legs broken off near by. An Aphid is located on the opposite side in a dark bubble.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1073.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 7/16". Specimen is partially obscured by large bubble in amber - legs on one side only are visible.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1075.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 5/8". Specimen near side. Both antennae are outstretched. On left side, only one leg is visible.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1078a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 7/8", L-shaped crumbly piece. Specimens are together.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphidoidea: Aphids (5) - **C. A. S. # 1078b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 7/8", crumbly piece. Specimens scattered throughout piece. Two Aphids are together.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera: Aphid? - **C. A. S. # 1079.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 5/8", square. Specimen near surface. Only part is present.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1080.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/3", half heart, clear amber. Specimens legs are all extended, specimen reddish-brown in colour.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1083.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 3/8". Specimen near surface, with one front leg bent forward. Specimen reddish-brown.

CONDITION: Very good.

IDENTIFICATION: (a) - Homoptera: Thysanoptera - **C. A. S. # 1092.**

(b) - Homoptera: Aphidoidea.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/2". Specimens on curved surface but are visible also through the flat surface. Specimens are close together in a line.

CONDITION: (a) - Excellent.

(b) - Fair.

IDENTIFICATION: Homoptera: Thysanoptera: Thripidae - **C. A. S. # 1095.**

DETERMINATION: W. R. Richards.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 1 1/4". Near surface. Both antenna visible, with wings curved back. To the right is a Collembola - only one leg and both antennae visible. Just above it is a four legged mite.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Thysanoptera: Lepismatidae: Microcoryphia ("machilid") - **C. A. S. # 1097.**

DETERMINATION: Pedro Wygodzinsky, May 26, 1976.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 5/8". Specimen in corner, 1/3" long. Large compound eye visible. Specimen is a mottled green-brown in colour.

CONDITION: Excellent (photographed by Thos. Stovell, May 24, 1976).

IDENTIFICATION: Homoptera: Aphids (3) - **C. A. S. # 1099.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2". Contains three Aphids close together, and one adult Neuropteroid, missing a head.

CONDITION: Two Aphids - very good, one Aphid - fair.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1100.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/4"x 3/16". Specimen somewhat obscured by leaf remains so that legs are clearly visible for one side only - red brown in colour.

CONDITION: Good.

IDENTIFICATION: Homoptera: Fulgoridae (legs only) - **C. A. S. # 1103.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/4"x 7/16". Three legs only are visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera?: Aphidoidea? - **C. A. S. # 1104.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/4", oval-shaped. Specimen in centre of piece. Badly fragmented, reddish-pink in colour.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphidoidea (6) - **C. A. S. # 1109.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/8"x 1/3". Amber contains six Aphids, three full and one half Aphid together, the other two in the area of the Hymenoptera.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1110.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 1". Specimen on side, near edge, with one antennae visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (winged) - **C. A. S. # 1111.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Specimen near surface, all parts exposed looking down. Amber was broken, and re-glued, so fracture marks are visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1112.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3", light amber. Specimen is in a corner. Both antennae are exposed, but the legs are obscured on one side, and only partially visible on the other.

CONDITION: Good.

IDENTIFICATION: Homoptera: Fulgoridae: Issidae? (nymph) - **C. A. S. # 1121.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2", lightish. Specimen is near surface. Specimen is light red in colour, almost transparent.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Thysanoptera: Thripidae? - **C. A. S. # 1124.**

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 2/3". Leaf filled amber. Specimen in corner, somewhat fragmented.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Thysanoptera: Thripidae (immature) - **C. A. S. # 1126.**

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2", light amber. Specimen on its side, both antennae visible. Legs are bunched in and are not really visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (winged) - **C. A. S. # 1138.**

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/3". Dorsal view displayed. All four wings visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Fulgoridae? (leg) - **C. A. S. # 1139.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 3/8". Contains leg visible from polished side. Leg is pinkish, transparent.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1140.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8". Specimen visible from side only. Ventral view displayed. Specimen is greenish coloured crawler.

CONDITION: Very good.

IDENTIFICATION: (a) - Homoptera: Scale insect (σ) - **C. A. S. # 1142.**

(b) - Homoptera: Scale insect (nymph).

DETERMINATION: W. R. Richards, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/8"x 5/8". Contains one male Scale insect, and right next to it, a Scale nymph. The male Scale is on its side, one wing clearly visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1144.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2". Specimen visible from rounded surface. Specimens antennae at right angles to body.

CONDITION: Very good.

IDENTIFICATION: (a) - Homoptera: Aphidoidea (crawler) - **C. A. S. # 1146.**

(b) - Homoptera: Aphidoidea (winged).

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 3/8", mottled amber. Contains two specimens, one in each corner. The one Aphid is winged, wings outstretched, with venation visible.

CONDITION: (a) - Very good.

(b) - Good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphids (crawlers) (8) - **C. A. S. # 1149.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 13/16"x 3/4". Contains eight Aphids, all in one corner. Amber contains much plant debris, obscuring somewhat, the view of the Aphids.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1155.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/3". Specimen facing downward, visible from rounded surface only. Large clump of white, glassy material beside Aphid.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid (crawler) - **C. A. S. # 1157.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8", dark amber. Specimen contains one Aphid, and one insect antennae, the antenna ending at the surface of the amber.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid (crawler) - **C. A. S. # 1159b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8". Contains a very small spider, large hair protruding, and an Aphid off in a corner.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Thysanoptera: Thripidae - **C. A. S. # 1161.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/4", clear amber. Specimen on its back, wings folded over back, but still visible. Mouthparts are visible..

CONDITION: Excellent.

IDENTIFICATION: (a) - Homoptera: Thysanoptera (♀) - **C. A. S. # 1163a.**

(b) - Homoptera: Thripidae.

DETERMINATION: (a) - J. F. McAlpine, 1975.

(b) - H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 3/8". Specimen is in centre of brown depression in the middle of the piece. Specimen has all legs and antennae visible, the back pair of legs being least visible. Six segmented antennae.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1164.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/4"x 3/16". Specimen near edge of piece, all legs and antennae extended.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphids (crawlers) (6) - **C. A. S. # 1167.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 3/4", rounded. Amber somewhat cloudy - the Aphids are surrounded by a reddish haze. The Aphids concentrated on the one half.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid (crawler) - **C. A. S. # 1168.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2". Specimen is near the side of the amber, on its side, with antennae outstretched, legs tucked in. Specimen partially obscured by reddish cloud of debris nearby.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1169.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 5/16". Specimen near surface with only two to four legs and (or)

antennae visible. Specimen red-pink in colour, and is badly distorted.

CONDITION: Poor - fair.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1170.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 13?16"x 5/13". Specimen partially obscured by stream of debris.

Specimen is unusually squat for an Aphid - has only four legs visible.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera: Aphid (crawler) - **C. A. S. # 1171.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3", light clear amber. Specimen is in one of the two dark corners, lying on its side, with only three legs visible.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 1172.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 7/16", irregular. Contains four Aphids, of which only three are easily visible. Two of the Aphids are obscured by a ball of dirt. All four Aphids are together. The Mite, an elongate specimen, is visible in one of the clear corners.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (crawlers) - **C. A. S. # 1173.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/8"x 1/4". Contains two specimens - one Aphid had slightly curved antennae, one has straight antennae. One Aphid is lying beside an air bubble.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1176.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 9/16"x 1/2", triangular. Specimen is quite small for an Aphid.

Specimen is in the middle of a fracture, so that part of the Aphid is obscured.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1177.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", irregular. Specimen visible dorso-ventrally. Specimen is

in a haze of debris, and is itself in poor condition. Body and antennae badly damaged - legs are visible.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1178.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Specimen near edge of piece. Three legs only are visible, two on the body.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1179.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2". Specimen visible dorso-ventrally. Only four legs are visible, as a leaf imprint obscures vision.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1180.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", lightish amber. Specimen quite large for an Aphid.

Specimen has only five legs visible from the side on which the Aphid is partially obscured by a brownish stain.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1181.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", cloudy amber. Specimen very small for an Aphid. Legs and antennae just visible. Specimen blurry.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1183.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 9/16"x 7/16". Specimen near surface, visible dorsally from this side.

All legs and antennae visible. Specimen somewhat small for an Aphid.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (4) - **C. A. S. # 1184.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 2/3", thin flat, lightly coloured amber. Contains fragments of four Aphids and two mites in varying conditions. Aphids are reddish tinged in colour.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphid - C. A. S. # 1185.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", irregular. Contains one small Aphid crawler, as well as one long-legged mite. Also present is what is probably a short-legged mite, or possibly an Aphid, at right angles to viewing surface.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea (3) - C. A. S. # 1186.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2". Contains three Aphids, two visible dorso-ventrally, one, a side view. Two of the Aphids are extremely visible, one near the end is somewhat indistinct.

CONDITION: Very good - excellent.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1187.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 1/4". Specimens has legs bent in towards body. View is dorso-ventrally.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1188.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/2", triangular. Contains a small Aphid sitting on its side near a large spider leg.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea (4) - C. A. S. # 1189.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2", triangular, light amber. Aphids are clustered together, two lie on top of each other, one is near the edge and is thus hard to see, and the other is amongst the debris that fills this piece.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1192.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/16"x 1/16". Specimen's antennae are curved, one up, one down. Specimen more or less on its side, most of its legs being visible. Small white debris particles surround it.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid (crawler) - **C. A. S. # 1194.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/2". Contains a small Aphid. Aphids legs are bent under the body, its antennae bend out at right angles to the body.

CONDITION: Very good.

IDENTIFICATION: Homoptera? Aphidoidea? - **C. A. S. # 1195.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 9/16"x 1/4". Four legs are distinguishable in this badly distorted specimen.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphidoidea: Aphid - **C. A. S. # 1197.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", rounded. Contains one distorted Aphid, and one possible body segment.

CONDITION: Poor - fair.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1200.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/16"x 7/16". Specimen in a corner of the piece surrounded on two sides by debris. All legs and antennae are visible.

CONDITION: Good -very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1201.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8", clear, light amber. Specimen is centrally located, visible with the naked eye. View is dorso-ventral.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (4) - C. A. S. # 1202.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/4"x 1/4", round. Contains four very small Aphids found near each other just over a depression in the amber.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1205.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/3". Specimen on top of plant stain. Left set of legs only visible as a result.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1207.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 2/3". Specimen reddish-brown in colour, is on its side, underneath plant debris.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphid - C. A. S. # 1208.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2". Specimen near the side of the piece. Specimens legs only are visible as a large clump of plant matter lies on top of the Aphid.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1209.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/8"x 1/2". Contains three mites and one Aphid. One mite near the edge is very long legged. Near this is the Aphid, a small, complete specimen. In another clear corner is an almost transparent mite. In another corner, somewhat hidden by polishing powder, is the last mite, a mite with a greenish tinge.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1210.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/3", light, cloudy amber. Specimen is red in colour, dorso-ventral view, with details somewhat indistinct due to the cloudiness of the amber.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea (crawlers) (3) - **C. A. S. # 1213.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 1/3". Contains three Aphids, one large one, one small, and one medium small. Also scattered through the amber are numerous hairs or scales.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphids (8-10) - **C. A. S. # 1219.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2", dark amber. Amber contains much plant debris. Also contains eight to ten small Aphids scattered throughout but concentrated on one side, and a small mite.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1221.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 7/16". Diptera specimen best visible in the side of the amber.

Specimen is lying against a band of stain. Only one wing is visible. Aphid is found right beside the Diptera.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea (crawlers)(8) - **C. A. S. # 1225.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8". Contains eight Aphids, all quite small, concentrated on one side of the piece.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1226.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/4"x 1/2". Contains three quite small Aphids, each found in a different corner, in a dorso-ventral position.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1229.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/4"x 1/3". Very small Aphid near the surface, legs are indistinct.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1230.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1"x 3/8". Piece has been cut from a larger piece. Aphid specimen near cut face. Specimen's body is black, its four visible legs are pink; some are detached. Also present is a mite, near rounded surface.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1232.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Contains a Trichoptera ♂, wings fully exposed. Some of the mouthparts are broken off. The Aphid is beside one of the Trichoptera's wings.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1236.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 2/3"x 2/3". Dorso-ventral view. Only five legs are clearly visible. Medium sized specimen.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1239.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 2/3"x 1/2". Large black Aphid, on its back, with only some legs visible.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphid - **C. A. S. # 1241.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 2/3"x 3/8". Amber has large white crack running one half its length. Coleoptera specimen near the edge, some legs distinct, all of the beetle is present, though in somewhat damaged condition. An Aphid is present also, centrally located.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1242.**

DETERMINATION: H. Morrison, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 2/3"x 3/8", lightish amber. Dorso-ventral view. One front leg is bent as to be obscured. All other parts are clearly visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (crawlers)(2) - **C. A. S. # 1243.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 1/3"x 1/4". Contains a Diptera near the polished surface, and two Aphids on the irregular side. Cecid's wings are fully exposed, its antennae end near one of the sides.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - **C. A. S. # 1243a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 2/3". Reddish in colour. Several legs are broken off.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Aphidoidea (25) - **C. A. S. # 1245.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/3"x 1/4". Contains twenty-five Aphids, quite small, scattered throughout.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (crawlers) (3) - **C. A. S. # 1247.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/8"x 1/2". Two Aphids lying side by side. One destroyed Aphid near some debris.

CONDITION: One fair, two good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1249.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 2/3"x 1/3", triangular. Very small Aphid. Both antennae and two legs, bottom same side, visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1250.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 2/3"x 1/2". Specimen on surface, covered by a piece of debris. Three legs only are visible.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1251.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 1/4", triangular. Specimen near surface. Only one antenna visible.

CONDITION: Excellent.

IDENTIFICATION: Homoptera: Aphidoidea (crawler) - C. A. S. # 1253.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1"x 1/3", dark piece. Specimen near surface, badly deformed.

CONDITION: Fair - good.

IDENTIFICATION: Homoptera?: Aphidoidea? - C. A. S. # 1256.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/4"x 1/4". Specimen in corner, badly deformed, with its legs stretched out.

CONDITION: Poor.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1259.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 1/2". Specimen in a corner, near the surface. All legs and antennae visible. Quite small for an Aphid.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Serphitidae: *Serphites* Brues - C. A. S. # 1260.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/4"x 1/4". One wing fully exposed. Large mouthparts fully exposed. Legs not easily visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea - C. A. S. # 1263.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/3"x 1/2". Specimen visible just to the right of a surface stain. Antennae are in poor condition.

CONDITION: Good - very good.

IDENTIFICATION: Homoptera: Aphidoidea (crawlers) (5) - C. A. S. # 1264.

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1"x 1/3". Contains five Aphids, all in one end. Two are clumped together and are hard to distinguish. The other three are clearly visible.

CONDITION: Very good.

IDENTIFICATION: Homoptera: Aphidoidea (fragments of 4-5) - **C. A. S. # 1266.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 5/8"x 1/2". Fragments of four to five Aphids scattered throughout piece. Red-brown in colour.

CONDITION: Fair.

IDENTIFICATION: Homoptera: Psyllidae - **C. A. S. # 1272b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 3/8"x 1/3". Specimen near the end of the piece, in cloudy amber, so the details are somewhat obscured. Legs are visible however.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea - **C. A. S. # 1275.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 2/3"x 1/3". Specimen on its side, only two legs visible.

CONDITION: Good.

IDENTIFICATION: Homoptera: Aphidoidea: **HOLOTYPE** ♂ *Palaeoaphis archimedia*

Richards 1966. Type No. 9170 in CNC - **C. A. S. # 1280.**

DETERMINATION: W. R. Richards, 1966.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: Stored in Amber Collection in oil in standard three dram vial.

CONDITION: Specimen missing.

HYMENOPTERA

IDENTIFICATION: Hymenoptera: **HOLOTYPE** ♂ *Archaeromma nearctica* Yoshimoto 1975,
CNC No. 13544 - **C. A. S. # 76.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This multi-sided, wedged piece, 9/32"x 7/32"x 3/16", is smooth and polished

on all sides. Looking straight down on the piece, balanced on its narrowest length side, the first two specimens are found in the very centre of the piece and the third specimen is below and off to one side of these about half way down an adjacent side.

CONDITION: The first two specimens are in fair condition and the third is an excellent specimen.

IDENTIFICATION: Hymenoptera: **HOLOTYPE** ♂ *Baeomorpha ovatata* Yoshimoto 1975
CNC. No. 13548 - **C. A. S. # 77a.**

DETERMINATION: C. M. Yoshimoto, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A five sided piece, 1/4"x 1/4"x 5/32", with all but one side flat and polished. The specimen lies in the middle of this fairly clear orange and yellow piece toward the point that lies opposite the unpolished side. The specimen is encased in a clear yellow, drop-like area.

CONDITION: Very well preserved while the other two specimens are in good condition.

IDENTIFICATION: Hymenoptera: Chalcidoidea: ?*Baeomorpha* + Aphid molting cast - **C. A. S. # 77c.**

DETERMINATION: C. M. Yoshimoto, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A round lump of a piece, 11/32"x 3/16"x 1/8", rising from a flat and polished surface. The specimen lies just off centre in the clear middle area of the piece close to the polished side.

CONDITION: Very well preserved while the other two specimens are in good condition.

IDENTIFICATION: Hymenoptera: Cynipoidea: ?Cynipidae - **C. A. S. # 78.**

DETERMINATION: A. Rasnitsyn 1988.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This wedged shaped, 7/32"x 7/32"x 1/8", is flat and polished on three sides and slightly curved on the last side. The specimen is easily seen in the squared corner encased in the dirtiest part of this fairly clear piece.

CONDITION: This specimen is very well preserved - needs re-polishing.

IDENTIFICATION: Hymenoptera: **PARATYPE** ♀ *Mymaromma* sp. nov. *Ooctonus*(?)
minutissimus Brues. *Archaeromma neartica* Yoshimoto 1975 - **C. A. S. # 79.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This very thin piece, 9/32"x 5/32"x 1/16", is almost triangular with one of its large surfaces smooth and the other smooth and polished. The piece has two orange bands running through its clear yellow area, and one band right beside the specimen which lies clearly near the middle of the piece.

CONDITION: This specimen is in very good condition.

IDENTIFICATION: Hymenoptera: **ALLOTYPE:** *Baeomorpha distincta* Yoshimoto 1975 CNC # 13546 - **C. A. S. # 80.**

DETERMINATION: C. M. Yoshimoto 1972. Correction - L. Masner, 15-VII- 1988 (**NOT ALLOTYPE!**).

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, 1/2"x 1/4"x 1/8", is flat and polished on two large sides and almost flat on one of the two other length sides that is untreated and has a slight upwards bend. It is this last side that exposes the specimen about at its middle. The piece is clear yellow with light and dark orange lines bending with the specimen side.

CONDITION: What remains preserved of the specimen (2 legs, 2 wings and the abdomen) is in very good condition.

IDENTIFICATION: (a) - Hymenoptera - **C. A. S. # 81.**

(b) - Hymenoptera: Serphitidae.

DETERMINATION: (a) - C. M. Yoshimoto, 1972.

(b) - A. Rasnitsyn, 1988.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, 3/8"x 9/32"x 3/16", is flat and polished on a large and small length side, the rest of the piece being fairly smooth. The specimen lies near one end of the smaller flat side, near the polished off corner, trapped in an orange area running across the end of the piece. The rest of the piece is fairly clear with long orange areas sweeping across the opposite side from the specimen.

CONDITION: This insect is in good condition.

IDENTIFICATION: (a) - Hymenoptera: (σ) Eulophidae, subfamily nov - **C. A. S. # 82.**

(b) - Hymenoptera: Tetracampidae: Baeomorphinae: **ALLOTYPE** ♀

Baeomorpha distincta Yoshimoto 1975. CNC # 13546.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: A tiny droplet, 5/32"x 1/8"x 3/32", with on flat and polished surface. The specimen lies on the surface of the large rough side. A large crack splits the entire piece in half running through the abdomen of the specimen. This piece is clear yellow with tiny, wispy, light orange lines and cracks running all through it.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Hymenoptera: Chalcidoidea - **C. A. S. # 125.**

DETERMINATION: C. M. Yoshimoto, 1975 - larger specimen of Chalcidoidea (neither Tetracampidae, nor Trichogrammatidae, nor Mymaridae) teste G. A. P. Gibson, 1988.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This flat droplet; 7/16" from point to rounded end 3/8" wide x 3/32" thick; is smooth and polished on both sides with a large chip running on the surface the width of the piece on one side. Bits and pieces of this specimen are strewn throughout this yellow piece with some debris.

CONDITION: This specimen is poorly preserved.

IDENTIFICATION: (a) - Hymenoptera: Chalcidoidea - **C. A. S. # 130.**

(b) - Hymenoptera: ?Tetracampidae.

DETERMINATION: (a) - J. F. McAlpine, May 1972.

(b) - A. Rasnitsyn 1988.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This piece, 3/8"x 1/4"x 3/16" is flat and polished on one large side and two smaller surfaces with the interior being a very clear yellow. The specimen is plainly seen in the pointiest corner.

CONDITION: The whole insect is preserved in good condition.

IDENTIFICATION: Hymenoptera: *Serphites* sp - **C. A. S. # 151.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This 11/32"x 3/8"x 5/32" piece is flat and polished on all but one large side.

The specimen lies exposed on this rough surface along the shortest side of this clear yellow piece. A wide orange band runs the width of the piece below the specimen and in the opposite corner there is a large chip out of the largest flat surface.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Hymenoptera: Tetracampidae? - **C. A. S. # 152.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This lumpy 7/16"x 1/4"x 7/32" piece has one flat and polished side. One large length side has a large yellow lump near the flat side. The specimen lies on this lump on the flat surface side of it.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Hymenoptera: Gasteruptionidae s. l. - **C. A. S. # 155.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This rounded cube piece, 3/8"x 5/16"x 9/32", holds the specimen in the flatter end with the crack in it. This crack (where the piece has been glued) goes right through the middle of the specimen which is encased in a clear yellow circle. The rest of the piece is dark cloudy orange.

CONDITION: This specimen is in excellent condition.

IDENTIFICATION: Hymenoptera: (new genera of Mymarommidae) - **C. A. S. # 158.**

DETERMINATION: L. Masner, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This long contouring slender droplet, 15/32"x 7/32"x 1/8", is clear yellow with a few wispy orange areas through it. The specimen lies at the wide end opposite the rounded point end near one corner close to the surface with the slight groove in it.

CONDITION: This specimen is well preserved.

IDENTIFICATION: (a) - Hymenoptera: Chalcidoid - **C. A. S. # 170.**

(b) - Hymenoptera: Serphites.

DETERMINATION: L. Masner, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This $13/32$ "x $7/32$ "x $1/8$ " droplet contours from a wider end to a rounded narrower end near which the specimens are found opposite each other, one on each of the narrower length sides. The rest of the yellow and orange piece is free of debris.

CONDITION: Both specimens are in excellent condition.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 188.**

DETERMINATION: L. Masner, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This large wedge, $5/8$ "x $11/32$ "x $7/32$ ", is flat and polished on three sides with a chunk chipped out of one end. The specimen lies in the middle of the smallest flat surface, the side opposite the point of the wedge.

CONDITION: This specimen is in very good condition.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 189.**

DETERMINATION: L. Masner, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This piece, $1/2$ "x $3/8$ "x $5/16$ ", has three flat and polished sides and comes to a slight point at one end. The specimen is trapped in the middle of the smallest of the flat sides partly encased in a fault. The rest of the orange and yellow piece is scattered with debris.

CONDITION: This specimen is in very good condition.

IDENTIFICATION: (a) - Hymenoptera: **HOLOTYPE** ♂ *Triadomerus bulbosus* Yoshimoto 1975 CNC No. 13545 - **C. A. S. # 190.**

(b) - Hymenoptera?: Chalcid? (pair of antennae).

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This large darker piece, $5/8$ "x $1/2$ "x $1/4$ ", is flatter at one end, turning to a rounded point at the other. The first specimen is found along one of the two large length sides near the surface between the short parallel grooves. The second specimen is to the wing side of the first between the groove and the point of the piece and right on the surface.

CONDITION: Both specimens are very well preserved.

IDENTIFICATION: (a) - Hymenoptera: Chalcid - **C. A. S. # 191.**

(b) - Hymenoptera: (?*Baeomorpha*); Common type.

DETERMINATION: (a) L. Masner, 1972.

(b) A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This tiny yellow wedge, 7/32"x 1/8"x 5/32", has the specimen trapped in the very centre of orange area. The piece is flat and polished on three sides contouring to the point of the wedge.

CONDITION: This is an excellent specimen!

IDENTIFICATION: Hymenoptera: Braconidae: Doryctini - **C. A. S. # 194.**

DETERMINATION: L. Masner, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost triangular piece, 5/16"x 5/16"x 3/16"x 1/8", is fairly clear yellow, flat and polished on three sides. The specimen is in the very centre of this piece, easily seen.

CONDITION: This is an excellent specimen.

IDENTIFICATION: Hymenoptera: Formicidae: **PARATYPE** *Sphecomyrma canadensis*
Wilson 1988 - **C. A. S. # 205.**

DETERMINATION: Wilson, 1988.

COLLECTED: Near Medicine Hat, Alberta, August 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost triangular piece, 13/32"x 7/16"x 7/16"x 1/8", is flat and polished on three smaller sides and one large surface. The specimen lies in the angle with the chip out of it right against the chip and the large rough surface. The rest of this yellow and orange piece is filled with debris.

CONDITION: This specimen is not very well preserved.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 217.**

DETERMINATION: L. Masner, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This dark 5/16"x 5/16"x 9/32" chunk has a crooked ridge or groove in the middle of one side with parallel grooves between which the specimen lies very near the surface on the opposite side.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Hymenoptera: Serphites - **C. A. S. # 240a.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This 11/32"x 1/4"x 1/8" orange and yellow piece has three flat and polished length sides and is wider at one end than the other. The specimen lies where the largest flat side meets the smallest near the narrower end. The specimen faces a piece of debris in an adjacent corner.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 240c.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This larger fat piece, $15/32" \times 7/16" \times 7/32"$, has two flat and polished sides with a large curved and polished side wider at one end than the other which holds the specimen in its narrower end at the surface exposed by a slight chip near the corner.

CONDITION: What remains of this specimen is good.

IDENTIFICATION: Hymenoptera (abdomen) - **C. A. S. # 258.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The smallest of the three pieces, $3/16" \times 3/16" \times 3/32"$, contains the specimen. On one of the large flat sides there is a funnel shaped groove near the top. The specimen is located below and to the left of this groove.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 263.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One of the large triangular sides of this piece, $1/2" \times 5/32" \times 3/32"$, has an opaque section in the centre of it. The specimen is seen next to the opaque section.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae (2) - **C. A. S. # 267.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $9/16" \times 3/8" \times 3/16"$, has a long deep groove dividing one of its sides. The specimen is located in the middle of the larger half of this side.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 272.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $3/16" \times 3/16" \times 1/8"$, has an opaque pentagonal side. The specimen is located near one of the points in the clearest section of this side.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 276.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in this very clear piece, $9/32" \times 5/32" \times 3/32"$.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Cynipidae - **C. A. S. # 282.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Of the two long edges of this piece, 1/4" x 1/8" x 3/32", one is curved. The specimen lies in the corner along this curved edge.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 283.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is seen easily in this clear 5/16" x 1/8" x 1/16" piece.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymarommidae: Braconidae (head) - **C. A. S. # 287.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, 19/32" x 9/32" x 5/32", has a large notch the width of one side, dividing the side so that the left half is much smaller than the right half. One specimen is found in the top left hand side of the notch and another to the right of the lower side and a third just below the notch. Below and to the right of the third specimen lies a round indentation. Three more specimens are located to the right of this indentation. The seventh specimen is on a smooth flattened arrowhead along an edge joining two sides.

CONDITION: 5 good, 2 poor.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 290.**

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One side of this 1/2" x 3/8" x 3/32" piece, has a gouge running the length of one of its edges. The specimen is in a corner of this side near the gouge.

CONDITION: Good.

IDENTIFICATION: Hymenoptera; Mymaridae - **C. A. S. # 307.**

DETERMINATION: C. M. Yoshimoto 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this clear piece.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scoliodea (leg) - **C. A. S. # 314.**

DETERMINATION: C. M. Yoshimoto, 1973; Apocrita sedis - A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: One specimen lies on the tip jutting out from the piece and the other three are near the centre of the piece.

CONDITION: 3 good, 1 poor.

IDENTIFICATION: Hymenoptera: Chalcidoidea: Tetracampidae: Baeomorphae: *Baeomorpha dubitata* Yoshimoto 1975 - **C. A. S. # 321.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily located in this flat clear piece.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 325.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in this tiny clear piece.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Formicidae: **HOLOTYPE** ♂ *Sphecomyrma canadensis* Wilson 1988 - **C. A. S. # 330.**

DETERMINATION: Wilson, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Ichneumonoidea - **C. A. S. # 342.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located. This piece was joined to **C. A. S. # 340** and **C. A. S. # 341**. (Incomplete and damaged, flagellum 12 segment with elongate sensilla).

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Mymarommidae - **C. A. S. # 343.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 354.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 359.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is located on the surface of the small flat end.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 365.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 369.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen lies in the lower left corner just below the file marks which run
the length of one side.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Tetracampidae - **C. A. S. # 375.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Trichogrammatidae - **C. A. S. # 400.**

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Cynipidae - **C. A. S. # 409.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 415.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 425.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphitidae: Serphites - **C. A. S. # 426.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 433.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Formicidae (head) - **C. A. S. # 439.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Fair.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 442.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located. Same piece as **C. A. S. # 440.**

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 460.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 469.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 470.**

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 473.**

DETERMINATION: L. Masner, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Same piece as **C. A. S. # 483**, **C. A. S. # 484**, **C. A. S. # 485** and **C. A. S. # 486**.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 480**.

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphitidae - **C. A. S. # 498**.

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen lies in a lighter colored chip which is still barely connected to the main piece.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Braconidae? - **C. A. S. # 517**.

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Braconidae - **C. A. S. # 534**.

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Ceraphronidae: Chrysididae: Cleptinae - **C. A. S. # 538**.

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Fair.

IDENTIFICATION: Hymenoptera: Tetracampidae: Scelionidae - **C. A. S. # 542**.

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymarommidae: Mymaridae: Mymaromminae:

Archaeromma minutissima (Brues) - **C. A. S. # 543.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymarommidae: Mymaridae: Mymaromminae:

Archaeromma minutissima (Brues) - **C. A. S. # 546.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 554.**

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 562.**

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 574.**

DETERMINATION: C. M. Yoshimoto, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 592.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Both in good condition.

IDENTIFICATION: Hymenoptera: Mymaridae: Mymaromminae: **PARATYPE** *Archaeromma*

nearctica Yoshimoto 1975 - **C. A. S. # 598.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 612.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 616.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymaridae: Mymarinae: **HOLOTYPE** ♂ *Macalpinia canadensis* Yoshimoto 1975 CNC. # 13549 - **C. A. S. # 618.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 627.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Hymenoptera: Bethyridae - **C. A. S. # 633.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Platygasteridae: Serphidae - **C. A. S. # 646.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 648.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one poor.

IDENTIFICATION: Hymenoptera: Diapriidae cf. Ismarinae - **C. A. S. # 661a.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Tetracampidae - **C. A. S. # 671.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Tetracampidae: Baeomorpha - **C. A. S. # 673.**

DETERMINATION: C. M. Yoshimoto, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Megaspilidae: Mymaridae: Mymarommatidae (2) - **C. A. S. # 678.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: One good, one fair.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 683.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 685.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 694.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Calcidoidea: Tetracampidae: Baeomorphae: **PARATYPE**

Baeomorpha ovatata Yoshimoto 1975 CNC - **C. A. S. # 698.**

DETERMINATION: C. M. Yoshimoto, 1975.

REFERENCE: Canadian Entomologist Vol. 107, May 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 704.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 722.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Scelionidae (2) - **C. A. S. # 723.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Stigmaphronidae - **C. A. S. # 731.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 735.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 740.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 744.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymaridae: Mymaromminae: *Archaeromma minutissima* (Brues) - **C. A. S. # 748.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma minutissimus* (Brues) - **C. A. S. # 751.**

DETERMINATION: C. M. Yoshimoto, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Paxylommatidae: Ichneumonidae - **C. A. S. # 759.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Tetracampidae: **PARATYPE** *Baeomorpha distincta* Yoshimoto. (CNC) - **C. A. S. # 770.**

DETERMINATION: C. M. Yoshimoto, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: (a) - Hymenoptera: Serphidae (2) - **C. A. S. # 785.**

(b) - Hymenoptera: Scelionidae.

DETERMINATION: (a) - L. Masner, 1974.

(b) - A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimens easily seen.

CONDITION: Two good, one poor.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 786.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 787.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 798.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 808.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 812.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 815.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 821.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 824.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymaridae: Mymaromminae: *Archaeromma minutissima* (Brues) - **C. A. S. # 845.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 849.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 854.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimens easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Tetracampidae: **ALLOTYPE** ♀ *Baeomorpha elongata* Yoshimoto, 1975 CNC # 13547 - **C. A. S. # 856.**

DETERMINATION: C. M. Yoshimoto, 1975.

REFERENCE: Canadian Entomologist Vol. 107, May 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Braconidae - **C. A. S. # 879.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Bethyridae - **C. A. S. # 885.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Mymaridae: Triadomerinae: **ALLOTYPE** ♀ *Triadomerus bulbosus* Yoshimoto 1975 - **C. A. S. # 899.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Platygasteridae - **C. A. S. # 907.**

DETERMINATION: L. Masner, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Braconidae: Rogadinae - **C. A. S. # 914.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: (a) - Hymenoptera: Proctotrupoidea - **C. A. S. # 919.**

(b) - Hymenoptera: Scelionidae.

DETERMINATION: (a) - C. M. Yoshimoto, 1975.

(b) - A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece about 1/2" x 5/16", dark amber. Specimen near surface - greenish - outstretched above body; one antenna with rectangular band - other one straight.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 928a.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: Specimen easily seen.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Serphites: Serphitidae - **C. A. S. # 935.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In a piece, 3/4" x 1/2", specimen has long, thread-like waist, two wings, one over each other on the thorax.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Mymaridae vel Tetracampidae - **C. A. S. # 942.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1"x 5/8". Specimen is on surface, and is missing antennae and wings.

CONDITION: Poor.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 957.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/8"x 1/4" clear amber. Specimen very near all surfaces. Specimens antennae curve to right angles to head.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Serphidae - **C. A. S. # 968.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/3" clear amber. Contains a Hymenoptera, with most of wings absent, on the surface, and one arthropod leg.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae: Scelioninae - **C. A. S. # 972.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/3". Specimens antennae curled back over head.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Serphitidae - **C. A. S. # 983.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/4". Fairly large specimen in small piece. Wings straight up - stuck up, otherwise complete.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 1001.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 1/2". Specimens left antenna is bent at right angles away, the right one is double bent.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma nearctica* Yoshimoto 1975 ♂ -

C. A. S. # 1009.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In broken piece 7/8"x 1/2". Specimen is male, with both wings exposed flat.

Also present is an Aphid, unusually elongated.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Proctotrupoidea: Scelionidae - **C. A. S. # 1016.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/3", flattened on both sides. Specimen near edge, with wings hidden. From same stone as **C. A. S. # 1015** and **C. A. S. # 1017.**

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma minutissima* Yoshimoto 1975 - **C. A. S. # 1020.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/3", clear amber. Right and left antennae perpendicular to each other, with the right one standing straight up.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma nearctica* Yoshimoto 1975 - **C. A. S. # 1022.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/4". Contains an Aphid right against broken side.

Hymenoptera slightly obscured by cloudiness of amber. From same stone as **C. A. S. # 1023.**

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 1026.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 3/4". Hymenoptera and Diptera found almost together.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma nearctica* Yoshimoto - **C. A. S. # 1030.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/2". Specimens antennae are almost as long as body - male.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Serphites: Serphidae - C. A. S. # 1033.

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 3/4"x 1/2", banded amber. Specimen has thin waist, and mouthparts are visible.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Scelionidae - C. A. S. # 1036.

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 2/3"x 1/2". Specimen near edge of piece in thin section. Wings exposed.

CONDITION: Very good - excellent.

IDENTIFICATION: Hymenoptera: Braconidae (Det. L. Masner, 1975); *Dubitata* Brues (Det. H. Morrison, 1975); *Maimetohidae* gen. Nov. ♂, (Det. A. Rasnitsyn, 1988) - C. A. S. # 1038.

DETERMINATION: As indicated above.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2" angular. Long antennae curving away from head, specimen on its side.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Scelionidae - C. A. S. # 1047.

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/4"x 2/3", thin amber. Specimen is greenish in colour, and is on the surface. Part of the back is obscured because of a pock mark.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - C. A. S. # 1106.

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 3/4". Amber has been broken and glued, with the result that the specimen is obscured somewhat by a crack, and that the specimen has a break in it.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Chalcidoidea: *Baeomorpha* - C. A. S. # 1108.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 3/8". Specimens wings and abdomen partially obscured by a clump of debris.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma nearctica* (♀) Yoshimoto 1975 - C. A. S. # 1109.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/8"x 1/3". Amber contains six Aphids, three full and one half Aphid together, the other two in the area of the Hymenoptera.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma minutissimum* Yoshimoto 1975 - C. A. S. # 1113.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 3/8". Specimen near side. Antennae perpendicular to each other.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma nearctica* Yoshimoto 1975 - C. A. S. # 1115b.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/8"x 1/4", darkish amber. One wing appears to have been broken off.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Chalcidoidea: Tetracampidae: *Baeomorpha?* - C. A. S. # 1118.

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2". In far corner, specimen is partially obscured by polishing powder.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma nearctica* Yoshimoto 1975 - C. A. S. # 1119.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Specimen on its side, both wings parallel to the surface. Antennae bent and twisted.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Tetracampoidea: *Baeomorpha* - C. A. S. # 1122.

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/4", light amber. Specimen near surface. Hymenoptera is at a 45° angle to this surface, back end down.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Dryinidae - **C. A. S. # 1130.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/8"x 1/2". Specimen runs 2/3 length of piece. While the whole specimen is not visible, the specimen is whole; a crack obscuring part. The specimen should be embedded in plastic before the dorsal side is polished.

NOTE: On loan to N. Ponomarenko, Moscow. (L. Masner, September 1977, Loan No. 77-116).

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Chalcidoidea: *Tkidomerus bulbosus?* - **C. A. S. # 1132.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/4". Specimen facing down, wings over body, with both antennae bent the same direction.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Cynipoidea: Cynipidae or Iliidae s. l. (fore metosomal terga 1-3 short!) - **C. A. S. # 1135.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 5/8". Diptera's legs are twisted, wings are only somewhat visible. Acarina next to one of the Diptera's legs. Hymenoptera is above the Diptera, to the side, with both wings exposed.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Serphitidae - **C. A. S. # 1137.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 3/8"x 3/8", clear light amber. Specimen is easily visible to naked eye. Wings only fragmentary. Specimen badly distorted.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae: Scelioninae - **C. A. S. # 1148.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/4". Specimen on very edge of piece. One antennae is in a lighter colour of amber. The body of specimen is in among plant debris. Wings are visible.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Formicidae: Poneribae - **C. A. S. # 1156.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3", dark amber. Specimen filled width of amber. Two of the legs are incomplete, ending at surface of amber.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma minutissimus* (Brues) - **C. A. S. # 1159a.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 2/3", medium-dark amber. Specimen near surface, one wing and all legs and antennae visible. Specimen located near intersection of two facets.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma minutissima* (Brues) - **C. A. S. # 1160a.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/4"x 1/3". Visible from curved side only. Specimen on its side, antennae at right angles to body. Both wings exposed.

CONDITION: Excellent.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma* (♂) - **C. A. S. # 1203.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/4"x 1/3". Specimen near surface, above a darkish stain. Specimen indistinct, legs and antennae hard to distinguish.

CONDITION: Fair.

IDENTIFICATION: Hymenoptera: Mymaridae: *Archaeromma minutissima* - **C. A. S. # 1204.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 7/16". Two of the legs, the front two of one side, are crossed. The other legs are straight, though pointed in any direction. Both antennae are curved, one like a question mark.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: (legs) - **C. A. S. # 1212.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/12"x 5/12", pie-shaped piece. Specimen lies in tip of piece, is somewhat fragmentary. Some legs are broken.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: (possibly Scelionidae) - **C. A. S. # 1218.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3". Psocoptera near surface, one wing is present. Psocoptera is somewhat damaged, some legs are detached and the body is indistinct. Also present are six legs.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Scelionidae - **C. A. S. # 1228.**

DETERMINATION: L. Masner, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/3". Specimen near edge of piece. One of the specimen's front legs is bent up on itself. Both wings visible.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Mymaridae: Thidsmerinae? - **C. A. S. # 1240.**

DETERMINATION: C. M. Yoshimoto, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1973 by P. Boston.

DESCRIPTION: In piece 2/3"x 1/2". Specimen centrally located. Very long antenna. Specimen's body is compressed, wings are present though indistinct.

CONDITION: Good.

IDENTIFICATION: Hymenoptera: Formicidae, Myrmecinae? - **C. A. S. # 1271.**

DETERMINATION: Ivanochko, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 3/4". Contains a large ant, dorso-ventral view. Just above the ant is a large termite, on the surface. Legs of termite very clear. Mite fragments throughout.

CONDITION: Very good.

IDENTIFICATION: Hymenoptera: Cynipidea? - **C. A. S. # 1272a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/3"x 1/3". Hymenoptera looks like a hybrid - Cynipid wings, but the body does not resemble a Cynipid. Just above the Hymenoptera is a Chironomid, wings exposed.

CONDITION: Good - very good.

IDENTIFICATION: Hymenoptera: 1 specimen in pill box; 1 specimen in oil - **C. A. S. # 1281.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Cedar Lake Manitoba

DESCRIPTION: In piece 1/4" x 9/16" x 1/4".

CONDITION: Good.

LEPIDOPTERA

IDENTIFICATION: Lepidoptera: (head capsule) - **C. A. S. # 93.**

DETERMINATION: M. R. MacKay.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece has been described as being 3/8" x 7/16" x 1/8", appearing with some frass and webbing. The piece is polished flat on one large side with all the other sides rounded and fairly smooth except for one rough, jagged side. The specimen is trapped near one of the corners of the side opposite this rough side. It is found with some dark specks in the same area. (A full, very detailed description with diagrams is found in "publications"). In the adjacent corner to this specimen may be found additional specimens upon closer inspection of the debris.

PUBLICATION: MacKay, M. R. 1970. Science, Vol. 167, pp. 379-380, 23 January 1970, by M. R. MacKay (E. R. I. Ottawa).

CONDITION: This specimen is in poor condition.

IDENTIFICATION: Lepidoptera? - like a Bucculatrix cocoon? - **C. A. S. # 127.**

DETERMINATION: M. R. MacKay.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This long thin piece, 7/16"x 3/16"x 5/32", is wider at one end than at the other and yet not as thick at that same end as the other. The specimen is between the end with the groove in it and the chips in the two flat and polished length sides and lies near the corner of the piece.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Lepidoptera or Trichoptera (legs and antennae) - **C. A. S. # 225.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This darker, two sectioned piece, 3/8"x 5/16"x 3/16", was split in half and glued right in the middle. It is slightly wider at one end than the other and most of the specimen remaining is in the lighter coloured amber beside the crack at the slightly wider side. The rest is in the other side.

CONDITION: What remains of this specimen is well preserved.

IDENTIFICATION: Lepidoptera? (insect larva) - **C. A. S. # 301.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION:

CONDITION: The piece is shattered.

IDENTIFICATION: Lepidoptera: Incurvarioidea - **C. A. S. # 674.**

DETERMINATION: E. Munroe, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen. Loaned to Dr. Matura, May 27, 1974.

CONDITION: Good.

IDENTIFICATION: Lepidoptera: (larva) - **C. A. S. # 867.**

DETERMINATION: A. Matura, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

MISCELLANEOUS

IDENTIFICATION: Abdomen of insect? - **C. A. S. # 4a.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake Manitoba, August 1963 by J. E. H. Martin & J. F. McAlpine.

DESCRIPTION: This piece 5/16"x 1/4" (almost square) x 1/8", is relatively clear except for one dark corner. The specimen is exposed on one of the two largest flat surfaces. It is large, dark, and ribbed.

CONDITION: Possibly an abdomen but poorly preserved.

IDENTIFICATION: Insect legs ? - **C. A. S. # 7.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A small lumpy piece, 3/16"x 3/16"x 1/8", with dark orange and black areas in the middle and many cracks and fault lines throughout. The specimen is located near the middle of the longest side.

CONDITION: This piece is fragile and therefore difficult to polish. When in oil, three legs are clearly visible as being well preserved. Part of a fourth leg is also to be seen.

IDENTIFICATION: Possibly a insect body with a wing? - **C. A. S. # 9.**

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A tiny piece, 1/4" long, shaped squarely, contouring to a point. The specimen is situated in the end opposite this point under the broken-off corner edge.

CONDITION: The specimen is very poorly preserved.

IDENTIFICATION: Crustacea: Ostracoda? - **C. A. S. # 90.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A very, very tiny, fragile piece, 1/8"x 1/32"x 1/32", half of which is the grey area of the specimen. The other parts of the piece are clear yellow.

CONDITION: This specimen is in poor condition.

IDENTIFICATION: Filmy, membranous material with traces of wing veins? Or tracheal tubes?
- C. A. S. # 91.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, July 1950 by R. D. Bird and W. J. Brown.

DESCRIPTION: This piece, 5/16"x 3/16"x 5/32", is flat and polished on two length sides that lead to a squared-off, blunt point at one end. The other end is roughly rounded with very dark areas on the surface. Near this side the specimen is found as being filmy, membranous material. The rest of the piece is, for the most part, clear yellow.

CONDITION: This is a poorly preserved specimen.

IDENTIFICATION: Plant remains? - C. A. S. # 94.

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This pointed piece, 13/32"x 3/16"x 3/16", is flat and polished on one side leading to the point. This side has a large chip out of it about one third of the way down from the point. The full length of the piece has a black twig-like fibre running through it as well as other debris reaching to the surface of the piece.

CONDITION: These specimens are in fair condition.

IDENTIFICATION: Plant remains?, flower? - C. A. S. # 95 a,b,c.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: (a) - A large rounded rough piece, 1/2"x 3/38" x 1/4", with a very large chip out of one corner containing the sections of the specimen. The interior of the piece holds other small pieces of debris in the clear yellow.

(b) - Another section of the specimen in "a" is found along one side of this irregular, triangular piece, 1/4"x 1/4"x 3/16"x 1/8". Each corner bends to a rough point with the interior fairly clear.

(c) - Four sections of the specimen in "a" and "b" are found on the large rough side opposite the roughly rounded side of this 3/16"x 5/32"x 1/16" piece. The rest of this piece is also fairly clear.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Plant debris etc. - C. A. S. # 96.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost triangular piece, 3/8"x 1/4"x 7/32"x 5/16", is flat and polished on two length sides that have a common groove stretching across the middle of their surfaces

across the common corner. The third length side is rough and slightly curved. Throughout the interior of the piece are dark areas in the clear yellow that are to be studied.

CONDITION: Any specimens here are in poor condition.

IDENTIFICATION: Debris? - C. A. S. # 97.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: A long pointed piece, 9/16"x 1/4"x 3/16", flat and polished on most of one side with a large twig-like piece of dark orange running almost the full length of the piece.

Other debris is also to be found in this piece.

CONDITION: Any specimens in this piece are in poor condition.

IDENTIFICATION: Bark? Needles? - C. A. S. # 98a,b.

DETERMINATION: ?

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: 98a - A bulging triangle, 5/8"x 5/8"x 9/16"x 1/4", with one flat and polished side exposing the whole interior of the piece. A large dark line of debris stretches across to cut off one whole corner and there are many other smaller darker areas in the piece.

98b - A large quadrangular figure, 11/16"x 9/16"x 7/32", flat and polished on one side and narrower at one end than the other. The narrower end is flat. A large dark twig-like area stretches across the interior of the piece the full length of the end opposite the narrow end. Other bits of debris are also to be found in the interior.

CONDITION: Any specimens in both pieces are in fair condition.

IDENTIFICATION: 2 large tarsi - C. A. S. # 101.

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This almost rectangular shaped piece, 3/8"x 1/4"x 1/8", is polished on most surfaces. On one of the two largest sides there is an almost butterfly shaped chip taken out. Just beside this chip towards the middle of the piece is the first specimen near the surface. The other specimen is on the other side of the chip in the corner and facing more into the interior. There is a long chip and groove the width of the piece on the other largest side at the opposite end to these specimens.

CONDITION: These specimens are well preserved.

IDENTIFICATION: 2 insect legs? - C. A. S. # 102.

DETERMINATION: M. MacKay 1967.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This is a very tiny triangular piece, about 1/8" on all four sides, with three flat and polished surfaces and one rough side with a large groove in it. The specimen lies in the side opposite this groove (the one side of the triangle parallel to the groove) right on the surface.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Antenna - **C. A. S. # 108.**

DETERMINATION: M. MacKay 1969.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, $11/32" \times 3/16" \times 3/16"$, is flat and polished on three length sides with the specimen extending from the one polished side (between the other two polished sides) down into the middle of the piece about half-way between the two ends. Throughout this piece there are orange lines and curves.

CONDITION: This specimen is in good condition.

IDENTIFICATION: Insect thorax and leg? - **C. A. S. # 116a,b.**

DETERMINATION: J. F. McAlpine, 1972

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: 116a - This small piece, $15/32" \times 9/32" \times 5/32"$, is smooth and rounded except for the side broken away from 116b. This piece comes to a sharp point at one corner. The specimen first seen lies on the side opposite the broken side and other parts lie exposed on the broken side.

116b - This much larger piece, $1/2" \times 1/2" \times 1/4"$, is also smooth and rounded on all but one broken off side. The specimen is in the middle of the broken side exposed at the surface.

CONDITION: These specimens are poorly preserved.

IDENTIFICATION: Insect? - **C. A. S. # 135.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This $5/16" \times 9/32" \times 3/16"$ piece is rounded and smooth on most sides with dark yellow areas all along the longest straight side. The largest rounded side holds the specimen located near the edge cut off in the thickest part of the piece.

CONDITION: This specimen is poorly preserved.

IDENTIFICATION: Insect legs? - **C. A. S. # 136.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This clear yellow triangular piece, $15/32" \times 9/32" \times 15/32" \times 3/16"$, has the specimen as the only dark area in it coming from one of the longest sides. It is very easily seen. There are scratches on the outside and one fault beside the specimen in the interior but no other debris.

CONDITION: This specimen is well preserved.

IDENTIFICATION: Insect? - **C. A. S. # 139.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This $5/16" \times 3/16" \times 1/4"$ piece is fairly clear of debris except along its longest

side, the one terminating in the long point. The specimen is in the very heart of the piece opposite the largest flat side.

CONDITION: This specimen is in poor condition.

IDENTIFICATION: Mite?, Aphid? or spider? and one insect - **C. A. S. # 142.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This irregular triangular piece, $3/4" \times 13/16" \times 11/16" \times 1/8"$, has three "arms"; a fat one, a long one, and a smaller one. It is clear yellow with some black and orange debris. The first specimen is in the centre of the fat arm and the second specimen is at the sharpest tip of the long arm.

CONDITION: These specimens are in fair condition.

IDENTIFICATION: Mite? or Spider? - **C. A. S. # 144.**

DETERMINATION: J. F. McAlpine, May 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This large $1" \times 3/4" \times 3/16"$ piece is full of debris. The specimen lies in the side opposite the long straight side about $1/4$ of the way from the rounder end. It is small and near the edge.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Seed, insect or spore? - **C. A. S. # 174.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This piece, $5/16" \times 1/4" \times 5/32"$, is mostly made up of shades of orange although there is one yellow stretch in which lies the specimen, along one side that extends into the middle opposite the groove. One large side is flat and untreated.

IDENTIFICATION: Plant remains or insect? - **C. A. S. # 195.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This tiny clear piece, $7/32" \times 3/32" \times 3/32"$, is squared on one end and contoured to a point at the other end that contains the specimen which lies beside the only other piece of debris in the piece.

CONDITION: This specimen is in poor shape.

IDENTIFICATION: Arthropod: Arachnid or insect? - **C. A. S. # 214.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This tiny piece, $3/16" \times 3/16" \times 1/16"$, is flat and polished on one large side and rounded and polished on the other. The specimen lies very near the surface of the flat side near the end of the largest fault in this light orange piece.

CONDITION: This specimen is in fair condition.

IDENTIFICATION: Other insects (2) - **C. A. S. # 218.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This larger piece, $3/4$ "x $19/32$ "x $1/4$ ", is smooth, curved and polished on much of its two large sides with a fairly wide clear yellow area running the width and thickness of the middle of the piece. Close to the largest polished surface down at one end of the yellow band near the length side with the groove in it is found the first specimen. Looking through the opposite side of the piece in the middle of the yellow band three other specimens are found at different depths in the amber. This same sides chips off to a narrower thickness at one end revealing a fifth tiny specimen near the surface of another smaller, lighter yellow area near where the groove mentioned above terminates at one end.

CONDITION: All these specimens are well preserved.

IDENTIFICATION: Lepidoptera or Trichoptera (legs and antennae) - **C. A. S. # 225.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This darker, two sectioned piece, $3/8$ "x $5/16$ "x $3/16$ ", was split in half and glued right in the middle. It is slightly wider at one end than the other and most of the specimen remaining is in the lighter coloured amber beside the crack at the slightly wider side. The rest is in the other side.

CONDITION: What remains of this specimen is well preserved.

IDENTIFICATION: Insecta incertae sedis: an isolated antennal or cercal segment - **C. A. S. # 245.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This $13/32$ "x $1/4$ "x $1/4$ " piece has its largest side roughly broken away from a larger piece and a groove width-wise carved across an adjacent side to this. The specimen lies near this grooved side in the slightly bigger half close to the rough side about half-way to the end of the piece. The rest of this piece is scattered with debris.

CONDITION: This specimen is in good condition but only a fragment of the whole animal.

IDENTIFICATION: Insect - **C. A. S. # 260.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This piece, $9/32$ " x $5/32$ " x $1/8$ ", has a section jutting out from the top right hand corner. One specimen is found at the top of this section and the other is on the right angle joining this section to the rest of the piece.

CONDITION: One good, one poor.

IDENTIFICATION: Insect - **C. A. S. # 364.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Good.

IDENTIFICATION: Arthropod legs (3) - **C. A. S. # 439.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily located.

CONDITION: Fair.

IDENTIFICATION: Insect legs - **C. A. S. # 482.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Legs.

IDENTIFICATION: Unknown - **C. A. S. # 496.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION:

CONDITION:

IDENTIFICATION: Unknown insect - **C. A. S. # 584.**

DETERMINATION: ?

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Arthropod: Phalangida? (leg) - **C. A. S. # 968.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 5/8"x 1/3" clear amber. Contains a Hymenoptera, with most of wings absent, on the surface, and one arthropod leg.

CONDITION: Good.

IDENTIFICATION: Arthropod? - **C. A. S. # 994.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/3", rounded. Stone contains one Aphid and one unidentified Arthropod.

CONDITION: Poor.

IDENTIFICATION: Insect - **C. A. S. # 1048.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/3", round. Amber contains bubbles, specimen lies on surface - no wings or head visible. Six legs visible.

CONDITION: Poor.

IDENTIFICATION: Plant debris? - **C. A. S. # 1053.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 7/8"x 3/4". Contains unknown specimen, possibly plant, possibly insect, is located in the clear half of the stone.

CONDITION: Very good.

IDENTIFICATION: Insect legs - **C. A. S. # 1066.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/2", triangular. Leg only visible. Leg is enveloped in a dark stain, except for a forked tarsi.

CONDITION: Very good.

IDENTIFICATION: Insect webbing - **C. A. S. # 1067.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/2". Contains silk, probably spider webbing or the remains of a cocoon.

CONDITION: Good.

IDENTIFICATION: Insect (antennae) - **C. A. S. # 1157.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8", dark amber. Specimen contains one Aphid, and one insect antennae, the antenna ending at the surface of the amber.

CONDITION: Very good.

IDENTIFICATION: Insect legs: Trichoptera? - **C. A. S. # 1175.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 7/16". Contains six insect legs - two or three complete. Legs are lightly haired, with apical spurs present at the first two segments of leg.

CONDITION: Good.

IDENTIFICATION: Hairs or scales - **C. A. S. # 1213.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 1/3". Contains three Aphids, one large one, one small, and one medium small. Also scattered through the amber are numerous hairs or scales.

CONDITION: Very good.

IDENTIFICATION: Insect larva? - **C. A. S. # 1279.**

DETERMINATION: H. Teskey, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 3/8". Specimen near one side. No legs or antennae are visible, though body segmentation is.

CONDITION: Good.

NEUROPTERA

IDENTIFICATION: Neuroptera: Neuropteridae: Sisyridae?: (hairy larva ?) - **C. A. S. # 89.**

DETERMINATION: J. F. McAlpine and J. E. H. Martin, 1972.

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This piece, 3/8"x 1/4"x 1/16", is flat and polished on one side and smooth and curved on the other. One big dark area in one corner is rectangular in shape and just above this lies the specimen along one of the length sides in a clear yellow section of the piece.

CONDITION: This specimen is in fairly good condition.

IDENTIFICATION: Neuroptera: Coniopterigidae - **C. A. S. # 251.**

DETERMINATION: J. F. McAlpine, 1972. Loaned to Dr. F. M. Carpenter - L72-64. (see correspondence in Diptera files). Returned September 21, 1976 (unworked).

COLLECTED: Cedar Lake, Manitoba, August 1963 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: No description given for this specimen. (specimen not in CNC).

CONDITION: Excellent.

IDENTIFICATION: Neuroptera: Chrysopidae - **C. A. S. # 326.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This specimen is easily located.

CONDITION: Excellent (good for photo).

IDENTIFICATION: Neuroptera: Coniopterigidae: Aleuropteryginae - **C. A. S. # 333.**

DETERMINATION: E. Rice, 1974.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The 2nd largest piece has the wing venation and body of the neuropteran and each of the two smallest pieces contains at least one aphid nymph.

NOTE: (Made April 9th, 1974) - The neuropteran is in the medium-sized (2nd largest) piece; it is

located on the pointed portion very near the surface more or less between the two smaller lobes of the point. Head - antennae - thorax - legs - abdomen, genitalia, 2 right wings and most of left wings present. Counterpart of one wing on small piece.

CONDITION: Poor.

IDENTIFICATION: Neuroptera: Hemerobiidae: **HOLOTYPE** ♂ *Plesiorobius canadensis*
Klimaszewski 1985 CNC No. 18446 - **C. A. S. # 382.**

DETERMINATION: J. Klimaszewski, 1985.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Excellent. (photograph taken).

IDENTIFICATION: Neuroptera: Sisyridae - **C. A. S. # 383.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located. Same piece as **C. A. S. # 384.**

CONDITION: Good.

IDENTIFICATION: Neuroptera: Berothidae? - **C. A. S. # 421.**

DETERMINATION: E. Rice, 1974.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Neuroptera: Coniopterigidae? - **C. A. S. # 461.**

DETERMINATION: K. G. A. Hamilton, P. T. Dang, W. R. Richards, J. F. McAlpine and J. E.
H. Martin, 1975.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Neuroptera: Coniopterygidae - **C. A. S. # 464.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Neuroptera: (legs & genitalia) - **C. A. S. # 652.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Genitalia in excellent condition.

IDENTIFICATION: Neuroptera: Raphididae - **C. A. S.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Only the head is present.

IDENTIFICATION: Neuroptera?: Chrysopidae? (egg and cast skin) - **C. A. S. # 1096.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/2"x 3/4". Specimen in clear tip. Specimen is pale green-white in colour; quite small. Egg appears to be attached to a thick hair.

CONDITION: Very good.

IDENTIFICATION: Neuroptera: Coniopterygidae - **C. A. S. # 1098.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/3"x 2/3". Specimen near surface in middle of piece. Wings are visible, but bent over. Genitalia well exposed.

CONDITION: Excellent (photo).

IDENTIFICATION: Neuroptera: Neuropteroid - **C. A. S. # 1099.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 5/8"x 1/2". Contains three Aphids close together, and one adult Neuropteroid, missing a head.

CONDITION: Very good.

ORTHOPTERA

IDENTIFICATION: Orthoptera: Isoptera, winged sexual adult - **C. A. S. # 111.**

DETERMINATION: J. F. McAlpine 1972.

COLLECTED: Near Medicine Hat, Alberta, 1968 by J. E. H. Martin and J. F. McAlpine.

DESCRIPTION: This 5/8"x 9/32"x 11/32" piece, has one rough side and one flat and polished. A flat rounded end contours to the wedge point at the other end of this piece and the specimen is very large extending from the rough surface on into the piece to occupy most of the central regions. There is also a large area of black debris below the specimen. (To see wings, shine light on dorsum of thorax)

CONDITION: This specimen is in fairly good condition.

IDENTIFICATION: Orthoptera: Blattodea - **C. A. S. # 288.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in this clear piece.

CONDITION: Good.

IDENTIFICATION: Orthoptera: Isoptera: Termite - **C. A. S. # 322.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: This specimen is easily located in this tiny piece.

CONDITION: Good.

IDENTIFICATION: Orthoptera: Blattidae - **C. A. S. # 371.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily located.

CONDITION: Only leg remaining.

IDENTIFICATION: Orthoptera (leg) - **C. A. S. # 599.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fragments.

IDENTIFICATION: Orthoptera: Blattidae - **C. A. S. # 619.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Orthoptera: Blattidae - **C. A. S. # 649.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Two mites in good shape but roach missing parts of body.

IDENTIFICATION: Orthoptera: Blattidae - **C. A. S. # 650.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen. Found in same piece as **C. A. S. # 650.**

CONDITION: Poor.

IDENTIFICATION: Orthoptera: Blattidae - **C. A. S. # 702.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Fair.

IDENTIFICATION: Orthoptera - **C. A. S. # 818.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Only thorax present.

IDENTIFICATION: Orthoptera: Blattidae - **C. A. S. # 859.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Orthoptera: Blattidae (nymph) - **C. A. S. # 945.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/4"x 3/8". Specimen takes up all the piece, with 3/4" long curved antennae.

CONDITION: Excellent.

IDENTIFICATION: Orthoptera: Protorthopteroid: Grylloblattodea? (legs and cerci) - **C. A. S. # 1037.**

DETERMINATION: J. E. H. Martin & K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1 1/8"x 1/3". Specimen is immature, partially obscured by crack on one side. Specimen has four legs and long cerci visible, as well as part of abdomen.

CONDITION: Very good - excellent.

IDENTIFICATION: Orthoptera?: Blattoidea? (legs) - **C. A. S. # 1088.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 7/8"x 1/3". Specimen in corner, two hind legs only are present.

CONDITION: Very good.

IDENTIFICATION: Orthoptera: Blattidae (leg) - **C. A. S. # 1102.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1 1/3"x 7/8". Leg is 2/3" long, greenish in colour, covered with spikes and smaller hairs. Five tarsal segments are present. Leg obscured on rough side by a crack.

CONDITION: Excellent.

IDENTIFICATION: Orthoptera: Blattodea (nymph) - **C. A. S. # 1127.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/3", darkish amber. Specimen on its side. Antennae unusually short for Blattodea. Specimens back is coloured a mottled green-brown.

CONDITION: Excellent.

IDENTIFICATION: Orthoptera: Blattodea - **C. A. S. # 1233.**

DETERMINATION: A. Smetana, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 3/8". Contains the legs and head of a Blattodea. Most of the body is missing. Antennae very short for Blattodea.

CONDITION: Very good.

IDENTIFICATION: Orthoptera: Blattoidea - **C. A. S. # 1267.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 1/2". Specimen on surface. Head is obliterated, both antennae are visible. Long hairs cover cerci.

CONDITION: Good.

IDENTIFICATION: Orthoptera: Isoptera - **C. A. S. # 1271.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 1/2"x 3/4". Contains a large ant, dorso-ventral view. Just above the ant is a large termite, on the surface. Legs of termite very clear. Mite fragments throughout.

CONDITION: Good - very good.

IDENTIFICATION: Orthoptera: Isoptera - **C. A. S. # 1278.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1969 by J. F. McAlpine and J. E. H. Martin.

DESCRIPTION: In piece 2/3"x 3/4". Specimen in two parts, head is separated. Insect is reddish in colour. One antenna is visible, along with two legs.

CONDITION: Fair.

PLECOPTERA

IDENTIFICATION: Plecoptera - **C. A. S. # 264.**

DETERMINATION: J. E. H. Martin, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in this clear piece.

CONDITION: Good.

PROTURA

IDENTIFICATION: Protura - C. A. S. # 143.

DETERMINATION: K. G. A. Hamilton, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This pebble is 1/2"x 7/16"x 3/16" and has a light yellow marking along half of its perimeter. The whole interior is cloudy with the specimen being in the darkest point of the piece near the surface opposite the side with the crack in it.

CONDITION: The specimen here is in fair shape.

PSEUDOSCORPIONIDA

IDENTIFICATION: Pseudoscorpionida: Chelicera - C. A. S. # 340.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimens easily seen. This piece was joined to C. A. S. # 341 and C. A. S. # 342.

CONDITION: Good.

IDENTIFICATION: Pseudoscorpionida - C. A. S. # 347.

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Shattered piece.

CONDITION: Fragments.

IDENTIFICATION: Pseudoscorpionida (chelicera) - C. A. S. # 904.

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

PSOCOPTERA

IDENTIFICATION: Psocoptera - **C. A. S. # 295.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimen is easily seen in the centre of this clear yellow piece.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 308.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: The specimens are located in three of the four corners on the large flat side.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 336.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen is easily seen. Piece originally joined with **C. A. S. # 337.**

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 352.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 424.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 429.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 493.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 494.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Excellent.

IDENTIFICATION: Psocoptera - **C. A. S. # 537.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily located.

CONDITION: Poor.

IDENTIFICATION: Psocoptera? - **C. A. S. # 547.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Psocoptera - **C. A. S. # 577.**

DETERMINATION: J. F. McAlpine, 1973.

COLLECTED: Near Medicine Hat, Alberta, July 8-11, 1971 by J. F. McAlpine.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 642.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera: Lophioneuridae - **C. A. S. # 661a.**

DETERMINATION: A. Rasnitsyn, 1988.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera: Sphaeropsocus - **C. A. S. # 662.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera: Sphaeropsocus - **C. A. S. # 664.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 688.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Excellent.

IDENTIFICATION: Psocoptera - **C. A. S. # 706.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 729.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 747.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 761.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 788.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, 1973 by P. Boston.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor. Only abdomen remaining.

IDENTIFICATION: Psocoptera - **C. A. S. # 827.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 881.**

DETERMINATION: J. F. McAlpine, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Psocoptera - **C. A. S. # 895.**

DETERMINATION: W. R. Richards, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Poor.

IDENTIFICATION: Psocoptera? - **C. A. S. # 936.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/2". The aphid specimen has distended legs. The Psocoptera is present only in the head and mouthpieces.

CONDITION: Aphid is very good, Psocoptera - poor - head, antennae present only.

IDENTIFICATION: Psocoptera - **C. A. S. # 1028a.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 3?10", dark amber. Specimen is wingless, legs are folded under the body. Probably same species as **C. A. S. # 1028b.**

CONDITION: Excellent.

IDENTIFICATION: Psocoptera - **C. A. S. # 1028b.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/3"x 1/4". Wingless, with feet extended. Probably same species as **C. A. S. # 1028a.**

CONDITION: Good.

IDENTIFICATION: Psocoptera: Lepidoscelidae - **C. A. S. # 1117.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/3"x 1/3". Piece was a chip from large stone. Specimen wingless, with no antennae.

CONDITION: Very good.

IDENTIFICATION: Psocoptera - **C. A. S. # 1218.**

DETERMINATION: K. G. A. Hamilton, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 1/2"x 1/3". Psocoptera near surface, one wing is present. Psocoptera is somewhat damaged, some legs are detached and the body is indistinct. Also present are six legs.

CONDITION: Fair - good.

IDENTIFICATION: Psocoptera? (insect legs and antenna) - **C. A. S. # 1214.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 13/16"x 3/4". Amber has large white depression on back side. A number of legs are protruding from the white depression.

CONDITION: Fair - poor.

IDENTIFICATION: Psocoptera: 1 specimen in pill box; 1 specimen in oil - **C. A. S. # 1281.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Cedar Lake Manitoba

DESCRIPTION: In piece 1/4" x 9/16" x 1/4".

CONDITION: Good.

STREPSIPTERA

IDENTIFICATION: Strepsiptera: (triangulat larvae) - **C. A. S. # 651.**

DETERMINATION: K. G. A. Hamilton, 1974.

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen. Found in same piece as **C. A. S. # 650.**

CONDITION: Good.

THYSANOPTERA

IDENTIFICATION: Thysanoptera: Thrips - **C. A. S. # 218.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This larger piece, 3/4"x 19/32"x 1/4", is smooth, curved and polished on much of its two large sides with a fairly wide clear yellow area running the width and thickness of the middle of the piece. Close to the largest polished surface down at one end of the yellow band near the length side with the groove in it is found the first specimen. Looking through the opposite side of the piece in the middle of the yellow band three other

specimens are found at different depths in the amber. This same sides chips off to a narrower thickness at one end revealing a fifth tiny specimen near the surface of another smaller, lighter yellow area near where the groove mentioned above terminates at one end.

CONDITION: All these specimens are well preserved.

TRICHOPTERA

IDENTIFICATION: Lepidoptera or Trichoptera (legs and antennae) - **C. A. S. # 225.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July 1963 by P. Boston.

DESCRIPTION: This darker, two sectioned piece, 3/8"x 5/16"x 3/16", was split in half and glued right in the middle. It is slightly wider at one end than the other and most of the specimen remaining is in the lighter coloured amber beside the crack at the slightly wider side. The rest is in the other side.

CONDITION: What remains of this specimen is well preserved.

IDENTIFICATION: Trichoptera: **PARATYPE** ♂ *Electralberta cretacica* Botosaneanu. CNC
Type No. 17808 - **C. A. S. # 672.**

DETERMINATION: Botosaneanu. (described as new Family, Genus and, species).

COLLECTED: Near Medicine Hat, Alberta, May 1973 by J. F. McAlpine and H. J. Teskey.

DESCRIPTION: Specimen easily seen.

CONDITION: Good.

IDENTIFICATION: Trichoptera (3) - **C. A. S. # 965.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In Piece 1/4"x 3/4". Amber contains three Trichoptera; one whole specimen, one badly mangled, one with head and antennae good, and one with tips of wings, abdomen, and five legs. The piece also contains one spider.

CONDITION: Very good for all but the badly mangled Trichoptera, which was good.

IDENTIFICATION: Trichoptera: Annulipalpi: Psychomyidae? - **C. A. S. # 1008.**

DETERMINATION: F. Schmidt, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Daze, and Cooper.

DESCRIPTION: In piece 1/2"x 1/3", banded amber. Specimens antennae are both curved first down, then upward. Complete specimen, 1/3" in length. Parts of two other specimens of Trichoptera visible - one has only two tarsi visible, the other, the bottom half, some wings, and part of abdomen.

CONDITION: Excellent.

IDENTIFICATION: Trichoptera ♂ (adult) - **C. A. S. # 1232.**

DETERMINATION: J. F. McAlpine, 1975.

COLLECTED: Near Medicine Hat, Alberta, June 1974 by McAlpine, Cooper, and Daze.

DESCRIPTION: In piece 2/3"x 1/2". Contains a Trichoptera ♂, wings fully exposed. Some of the mouthparts are broken off. The Aphid is beside one of the Trichoptera's wings.

CONDITION: Very good.

ZORAPTERA

IDENTIFICATION: Zoraptera - **C. A. S. # 163.**

DETERMINATION: J. F. McAlpine, 1972.

COLLECTED: Near Medicine Hat, Alberta, July, 1963 by P. Boston.

DESCRIPTION: This "L" shaped almost boot-shaped piece, 3/4"x 5/8"x 1/4", has the specimen trapped in the middle of its long curved side in the centre of the piece.

CONDITION: This specimen is in good condition.

PRIMARY TYPES in AMBER in the CNC

Diptera

Cecidomyiidae: Porricondylinae: **HOLOTYPE** ♂ *Cretowinnertzia angustata* Gagné 1976 - **C. A. S. # 25.**

Phoroidea: **HOLOTYPE** ♂ *Prioriphora canadambra* McAlpine and Martin 1966 - **C. A. S. # 29.**

Phoroidea: **HOLOTYPE** ♂ *Sciadophora bostoni* McAlpine and Martin 1966 - **C. A. S. # 30.**

Ceratopogonidae: **HOLOTYPE** ♂ and 5 **PARATYPES** - *Minyohelea pumilis* Borkent 1995 (slide mounted) - **C. A. S. # 131.**

Ironomyiidae: **HOLOTYPE** ♂ *Cretonomyia pristina* McAlpine 1973 - **C. A. S. # 250.**

Ceratopogonidae: **ALLOTYPE** ♀ *Peronehelea chrimikalydia* Borkent 1995 (slide mounted) + 2 **PARATYPES** *Peronehelea chrimikalydia* Borkent (slide mounted) - **C. A. S. # 339.**

Ceratopogonidae: **HOLOTYPE** ♂ *Adelohelea glabra* Borkent 1995 (slide mounted) CNC. # 21663 - **C. A. S. # 530.**

Cecidomyiidae: Lestremiinae: **HOLOTYPE** ♂ *Cretocatocha mcalpinei* Gagné 1976 - **C. A. S. #**

593.

Limoniidae: **HOLOTYPE** ♂ *Dicranomyia albertensis* Krzeminski & Teskey 1987. CNC # 19080 - C. A. S. # **661b**.

Ceratopogonidae: **ALLOTYPE** ♀ *Palaeobrachypogon vetus* Borkent 1995 (slide mounted) - C. A. S. # **692**.

Ceratopogonidae: **ALLOTYPE** ♀ *Minyohelea pumilis* Borkent 1995 (slide mounted) - C. A. S. # **709**.

Ceratopogonidae: **ALLOTYPE** ♀ *Leptoconops primaevus* Borkent 1995 (slide mounted) - C. A. S. # **733**.

Ceratopogonidae **HOLOTYPE** ♂ *Culicoides bullus* Borkent 1995 (slide mounted) C. A. S. # **791**.

Ceratopogonidae **HOLOTYPE** ♂ *Leptoconops primaevus* Borkent 1995 (slide mounted) - C. A. S. # **792**.

Ceratopogonidae: **HOLOTYPE** ♂ *Peronehelea chrimikalydia* Borkent 1995 (slide mounted) - C. A. S. # **882**.

Ceratopogonidae: **HOLOTYPE** ♂ *Palaeobrachypogon remmi* Borkent 1995 (slide mounted) - C. A. S. # **947**.

Ceratopogonidae: **HOLOTYPE** ♂ *Heleageron arenatus* Borkent 1995 (slide mounted) - C. A. S. # **985**.

Ceratopogonidae: **ALLOTYPE** ♀ *Adelohelea glabra* Borkent 1995 (slide mounted) CNC # 21663 - C. A. S. # **1089**.

Empididae: **HOLOTYPE** ♂ *Nemedromia campania* Grimaldi & Cummings 1999. - C. A. S. # **1091**.

Cecidomyiidae: Lestremiinae **HOLOTYPE** ♂ *Cretomiastor ferejunctus* Gagné 1976 - C. A. S. # **1163c**.

Ceratopogonidae: **HOLOTYPE** ♂ *Palaeobrachypogon vetus* Borkent 1995 (slide mounted) - C. A. S. # **1198**.

Homoptera

Cercopidae **HOLOTYPE** ♂ *Jascopus notabilis* Hamilton 1970 **C. A. S. # 99.**

Aphidoidea: **HOLOTYPE** ♂ *Palaeoaphis archimedia* Richards 1966 - **C. A. S. # 1280.**

HYMENOPTERA

Chalcidoidea **HOLOTYPE** ♂ *Archaeromma nearctica* Yoshimoto 1975 CNC No. 13544 - **C. A. S. # 76.**

Tetracampidae: Baeomorphae **HOLOTYPE** ♂ *Baeomorpha ovata* Yoshimoto 1975 C NC # 13548 - **C. A. S. # 77a.**

Tetracampidae: Baeomorphae **ALLOTYPE** ♀ *Baeomorpha distincta* Yoshimoto 1975 CNC # 13546 - **C. A. S. # 82.**

HOLOTYPE ♂ *Triadomerus bulbosus* Yoshimoto 1975 CNC No. 13545 - **C. A. S. # 190.**

Formicidae: **HOLOTYPE** ♂ *Sphecomyrma canadensis* Wilson 1988 - **C. A. S. # 330.**

Mymaridae: Mymarinae **HOLOTYPE** ♂ *Macalpinia canadensis* Yoshimoto 1975 CNC. # 13549 - **C. A. S. # 618.**

Tetracampidae: **ALLOTYPE** ♀ *Baeomorpha elongata* Yoshimoto 1975 CNC # 13547 - **C. A. S. # 856.**

Mymaridae: Triadomerinae: **ALLOTYPE** ♀ *Triadomerus bulbosus* Yoshimoto 1975 - CNC No. 13545 - **C. A. S. # 899.**

Neuroptera

Hemerobiidae: **HOLOTYPE** ♂ *Plesiorobius canadensis* Klimaszewski 1985 - **C. A. S. # 382.**

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