Pictures on these pages are of insects collected from alfalfa throughout the Great Basin in association with an NSF Dimensions of Biodiversity project. This is a work in progress: future versions of this document will include a map of occurrences. Any questions to: forister@gmail.com
Insecta; Microcoryphia Meinertellidae 13 mm

Ephemeroptera Mayflies

2 pair wings. 1st pair large triangular - 2nd small rounded. Antennae short - bristlelike.

Lack of scales at the base of the legs and antennae. Rock Bristletails
Lepidoptera

White lateral stripe- head not black- 4 prolegs & 1 end pair-

1st-2nd instar

Pieridae

Colias

2 mm
Lepidoptera | Geometridae | 3 mm | Measuringworms, inchworms, loopers. Adult: slender bodies and relatively large, broad forewings, often crossed by thin wavy lines.
Browm moth wings with fringe 8 mm long wing.

Diamondback Moth

Lepidoptera Plutellidae Plutella xylostella 8 mm

Diamondback Moth

Lepidoptera Noctuidae 4 & 14 mm

4 proleg pairs plus end pair. White strip on side and bristles common on small dark turbulces.

4 proleg pairs plus end pair. White strip on side and bristles common on small dark turbulces.
Wings bent over at ends from drying from EtOH.
All brown with white cross stripe 1/3 from wing tip.

Lepidoptera micro-moth 4.5 mm
Lepidoptera
Gelechiidae
4-7 mm

Micro-moth. All gray coloring.

Odonata
Tortricidae
10 mm

Bell shaped wings.
Lepidoptera
Hesperiidae
20 mm wingspread

Lepidoptera
Hesperiidae
25 mm wing span
Thymelicus lineola. European Skipper, female. Spreading aggressively in Wyoming and Montana.
Lepidoptera  Pterophoridae    15 - 20 mm

Wings very slender, held at right-angles to body when at rest;
outer margin deeply notched; hindwing has three deep lobes.

Legs long, slender (hind tibia 2 to 3 times longer than femur),
forewing outer margin deeply notched; hindwing has three deep lobes.

Odonata  Coenagrionidae    35 mm

Narrow-winged Damselflies

Legs long, slender (hind tibia 2 to 3 times longer than femur),
forewing outer margin deeply notched; hindwing has three deep lobes.

Wings very slender, held at right-angles to body when at rest;
outer margin deeply notched; hindwing has three deep lobes.
Trichoptera

Very long antennae.

Dermaptera
Forficulidae
Earwigs
Neuroptera     Hemerobiidae     7 mm    Brown Lacewings

Antennae not clubbed. Front wing costal veins forked.

Larvae (132) predacious on aphids etc.

Sometimes the 1st instar has large empodium, but later instars do not have it like Chrysopidae larvae do (see #491).

53 & 132
Neuroptera  Coniopterygidae  1.5 mm (larve ~ 1 mm)

Antennae beaded many segmented, large eyes, and if you look at the side of the thorax, much of it looks membranous except for a sclerotized piece going from the legs to the wings. This sclerotized piece has an suture running down the middle that you can see as a thin dark line.

Sample 137.14.
Neuroptera  Chrysopidae  Green Lacewings  17 mm

Front wing costal cross veins are almost all simple, not forked.

Larva like #132 but has large empodium (large spoon like hair between claws).

Orthoptera  Acrididae  23 mm long
Orthoptera     Acrididae
Pale color adult with dorsal stripe.
Adult 50 mm, nymph 28 mm long
Strip on leg solid then seems to get less with age.
Line under eye and going back. Center thorax clear.
Orthoptera     Acrididae
Adult 50 mm, nymph 28 mm long
Pale color adult with dorsal stripe.
Adult 50 mm, nymph 28 mm long
Orthoptera  Gryllidae  Oecanthus.  Common Tree Crickets.  

Body = 8 mm
Diptera Agromyzidae leafminer

- Much smaller than 305.
- Anal cell present.
- Oral vibrissae present.
- Antennal flagellomere and arista yellow.

4 mm

Diptera Agromyzidae leafminer

- Much larger than 50.
- Anal cell present.
- Oral vibrissae present.
- Antennal flagellomere and arista black.

1 mm

305
Diptera 
Agromyzidae 
2 mm
All black. Costa only to R2+3 to ¾ way to apical end. 
Radial veins parallel with each other. Anal cell present.

Diptera 
Chironomidae 
3 mm - 10 mm +
No ocelli. Metanotum with central keel or groove.
Costa ends at wing tip. M unbranched.
Diptera    Anthomyiidae     small 4 + mm  
Calypterate fly.  Anal vein reaches the wing margin.  
Hypopleuron without bristles and no preopercular bristles.

Diptera    Asilidae    Holopogon    6 mm  
Head sunken between eyes.  All black with swollen hind legs.  
Antennae short and thick, long pointed arista.
Diptera
Bibionidae small 6 mm

Short thick antennae in center of face between eyes.
Diptera Bombyliidae < 5 mm long

Diptera Cecidomyiidae 1 mm long

Usually with small first metathoracic segment.

Delicate plant tissue miner.

White fuzzy-hairs mostly removed. Anal cell open or closed near edge. Discal cell usually present. M1 end behind up.

White fuzzy-hairs mostly removed. Anal cell open or closed.
Most with small first metatarsal segment.

Diptera  Cecidomyiidae  < 1 mm in etoh

Diptera  Ceratopogonidae  1 mm

Few veins. Black except ventral abdomen and scutellum & wing base.

Top=Male  Bottom=Female
Diptera     Chamaemyiidae     Leucopis     2 mm

White stripes especially on head. Body gray with small dark spots at each setae and sometimes large circular spots in a row on the abdomen. Larvae are aphid predators. Lip > forward.

Larva 2 mm, top = 169.
Pupae 4.5 mm, mid & bottom = 171.
Diptera  
Chamaemyiidae  
Chamaemyia  
2 mm

Body and head all black. Large eyes.  Larvae aphid predators.

Diptera  
Chloropidae  
1.5 mm

Diptera  Chloropidae  1.5 mm  
Long double joint proboscis.

Diptera  Chloropidae  Incertella?  1-2 mm.  
Femur slender. Thorax +/- stripes. Face w/o ctr ridge.
Diptera Chloropidae 3 mm

No anal cell. 1 break in C vein. Short proboscis.
ALL black except face. Large shiny ocellar triangle.

Diptera Chloropidae 2 mm

All dull black except cream colored face. Short proboscis and dull ocellar triangle. No anal cell.

Diptera Chloropidae 3 mm

All black except face. Large shiny ocellar triangle. No anal cell.
Diptera Chloropidae 2-3 mm

Vertebral abdomen light color. Ocellar triangle not shiny.

Long double joint proboscis. Head mostly lighter color.

Diptera Chloropidae Chlorops-1 4 mm.

Hind femur not enlarged.

Large shiny ocellar triangle. Thorax 2 yellow stripes.

Hind tibia with long tibial organ.

Vertebral abdomen light color. Ocellar triangle not shiny.

Diptera Chloropidae 2-3 mm
Diptera     Chloropidae         Chlorops - 2  4-5 mm
4-5 mm.  Black thorax with yellow stripes. Shinny black
Enlarged and curved hind femur; tibia curved.
Femora not thick.

Diptera     Chloropidae      Meromyza   Grass Flies     5 mm
Enlarged and curved hind femur; tibia curved.
Costa extending to R4+5 not to M1. Green eyes. Larvae are
stem borers in grasses. Small ocellar triangle.

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Costa extending to R4+5 not to M1. Green eyes. Larvae are
Enlarged and curved hind femur; tibia curved.
Diptera     Chyromyidae    2 mm

Long w/ brown spots. Green eyes very like BugGuide. Larvae reared from bird nests, mammal burrows, rotting wood. Adults on vegetation.

Diptera     Conopidae          4 - 8 mm

Humpbacked. Wings with fringe was scaly before ethyl. Long legs.

Diptera Culicidae Mosquito 5 mm

Diptera Dolichopodidae 4 mm

Long-legged Flies. Metallic coloring. Male genitalia often large and folded under the abdomen. No frontal suture. "r-m" vein absent or in basal 1/4 of wing. Legs often with ornamentation (expanded).
Diptera  Empididae     2-4 mm

Diptera  Ephydridae     2-3 mm
Diptera     Ephydridae     2 mm

All Black. Rounded frons above mouth. Large oral cavity covered by large spoon like mandibles that drop down a long way.


Diptera     Ephydridae     4 mm

Smoky veins. Rounded frons above mouth. Large oral cavity.

306

285
Diptera     Heleomyzidae     Trixoscelis     2 mm

Dark profemur.  Not as light brown mottled as 93.  Wing veins not smoky edged. Larval biology unknown.
Diptera     Heleomyzidae     Suillia     3 mm

Wing costa vein spiny on some. Usually in shaded areas.

Diptera     Heleomyzidae     5 mm

Diptera     Heleomyzidae     Suillia     3 mm

Diptera     Helomyzidae     Suillia     3 mm

Diptera     Helomyzidae     Suillia     3 mm

Gnaphy

Typically near rotting matter (compost, dung, carrion etc.) or

Dark abdomen and thorax tan with brown stripes.

Dark smoky veins.
Diptera     Lonchopteridae

Pointed-winged Flies
Wings often bent as in photo.
Larvae in decaying vegetation, Males extremely rare-
Larvae in decaying vegetation, Males extremely rare-
No cross veins- terminal arista.   Wings often bent as in photo.
No cross veins- terminal arista.   Wings often bent as in photo.
Probaby parthenogenetic.  Adults feed on nectar.

Diptera     Lauxaniidae

Black.  Preapical tibial bristles.  Flagellum long.  Costa no
no oral vibrissae.
Margin.  No oral vibrissae.  
Preapical tibial bristles.  Flagellum long.  Costa no
Preapical tibial bristles.  Flagellum long.  Costa no

Larval diet:  No oral vibrissae.
Preapical tibial bristles.  Flagellum long.  Costa no
Preapical tibial bristles.  Flagellum long.  Costa no

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Preapical tibial bristles.  Flagellum long.  Costa no

Larval diet:  No oral vibrissae.
Diptera  Lauxaniidae  Minettia  5 mm

No oral vibrissae. Ocellar setae parallel longer than PO. Middle tibia 1 apical spur. C short black setae don't extend to M1.
Freeloader Flies
Male has greatly expanded metatibia - http://bugguide.net/node/view/219974/bgimage. Some sp. commensals of predatory insects, riding on them and feeding on exudates of the victims.

Diptera  Muscidae  8 mm

No black stripe under eye and wide genal area mouth to eye.
Abdomen with irregular dark shapes. Between eyes high.
Anal vein not reaching margin. Lower calypter large.
Diptera              Muscidae               7 mm

Known as fragrant parasites of solitary bees.

R2+3 (the short vein) usually ending in R1 close to the lower calypter large. Anal vein not reaching wing margin. Between eyes dark.

Abdominal spots round. ClipAnal cell vein not reaching wing margin. Lower genal area mouth to eye.

Diptera     Mythicomyiidae     1.5 mm

R2+3 (the short vein) usually ending in R1 close to the lower calypter large. Anal vein not reaching wing margin. Between eyes dark.

Abdominal spots round. ClipAnal cell vein not reaching wing margin. Lower genal area mouth to eye.
Diptera     Phoridae     2-3 mm     Scuttle Flies
Humped back, a low small head, Costal vein ½ length wing. Specialized scavengers, predators, parasitoids, and even true parasites.

Diptera     Phoridae     <1 mm     Scuttle Flies
Humped back, a low small head, Costal vein ½ length wing. Specialized scavengers, predators, parasitoids, and even true parasites.
Diptera     Pipunculidae      3-4 mm

Big-headed flies. Eyes cover large half ball like head.

415

Diptera     Piophilidae      Skipper Flies      4 mm

Light color, round head. Bristles light (including oral vibrissae.
Anal cell & 2A not reaching margin. SC reaches C at a break. Postverticals diverging.

Planthoppers. Adults eat honey dew. Larvae parasitize leafhoppers and planthoppers.
Small scaly moth looking. Scavengers?

Diptera Psychodidae Moth Flies & Sand Flies < 1 mm
Diptera   Scatopsidae  Minute Black Scavenger Flies  1.2 mm

- Thick short antennae. 
- Costa and radialis wing veins heavy and ending 1/2 length of wing. Other veins very faint. 
- Larvae feed on detritus or excrement.

Diptera   Scenopinidae    Scenopinus     3 mm  Window Flies

- Antenna 3 segmented. No arista. 
- Large discal cell. Vein M1+2 ends at or before wing tip.
Diptera     Sciaridae    2 mm     Dark-winged Fungus Gnats.

Adults found near materials that the larvae feed on.
Larvae in excrement and various types of decaying materials.
Tibial spurs present. Posterior spiracle with bristle.
Spherical head; abdomen narrowed at the base. Wing with
costal vein ending at wing tip.

Diptera     Sepsidae    4 mm     Black Scavenger Flies

Larvae in excrement and various types of decaying materials.
Spherical head; abdomen narrowed at the base. Wing with
posterior spiracle with bristle. Larvae in excrement and various types of decaying materials.

Diptera     Sepsidae    2 mm     Dark-winged Fungus Gnats.
Humpbacked with thick antennae and wing venation strong on front edge with wide wings.

Diptera     Simuliidae       Lesser Dung Flies        3 mm
Lots strong setae.  Hind larval basal segment short and

Diptera     Sphaeroceridae  Lesser Dung Flies 3 mm
375  326  326  375
Diptera  
Syrphidae  
Toxomerus  
Hover Flies  
6 mm

Pics: All oriented with narrow head to the pointed left end.

Top = Side view with white stripes.
Mid = Dorsal view with white stripes.
Bottom = Ventral view showing pseudo legs on each segment.

Toxomerus genus has sharp "V" hind margin of eye & Spurinc vein in wings (blue line) & face characteristic.

Diptera  
Syrphidae  
Hover Flies  
6 mm

42

353
Diptera  Syrphidae  Orthonevra   Hover Flies        6 mm
Dark metallic. 6 mm. Flagellomeres long with dorsal arista.
Patterned eyes. Thorax with 4 dark bands.
Antennae thick with 5 segments, but 3rd annulated (looks like 4 segments) making it look more than 5.
Thorax with 4 dark bands.
Antennae thick with 5 segments, but 3rd annulated (looks like 4 segments) making it look more than 5.
Diptera     Tachinidae     Phasia      2.5 mm
Venation unique for this genus- curved M meeting R4+5.
Parasites of possibly mirids, Geocoris, Lygus?

Large Calypers. Females have conspicuous cerci used as claspers. Bent vein M intersecting R4+5 far from wing margin in circle. Hosts heteropteran families (Lygaeidae, Rhopalidae, Coreidae, Nabidae).

Diptera     Tachinidae     Leucostoma     5 mm.
Tachinids in general have a line of seta on hypopleura and pteropleura of possibly mirids, Cecconis, Lygaea.

323
Diptera Tachinidae 5 mm

Typical - key out again?
Tachinids in general have a line of seta on hypopleura and pteropleura.

Diptera Tachinidae Gymnosoma 8-10 mm.

Hosts of this genus are Pentatomidae.
Venation characteristic. Abdomen naked red/orange roundish with marks (dots or stripe) down middle.
Scutellum apical setae widely separated, not crossing.
Diptera  Tephritidae  4 mm  Fruit Fly

Net pattern on wings - central dark spot.

Wings without pattern.  **Tephritidae** generally have incomplete subcosta; right angled subcosta vein; anal cell usually with acute distal projection posteriorly.
Diptera     Tephritidae     4 mm     Fruit Fly

Wing pattern many circles overlapping - no big dark spot.

3 clear circles at tip with dark center.

Diptera     Tephritidae     5 mm     Fruit Fly

Wing pattern many circles overlapping - no big dark spot.

3 clear circles at tip with dark center.
Diptera     Tephritidae
Coleoptera     Anthicidae   Notoxus    4.5 mm long
Hood over head, hairy, patterns on elytra
Coleoptera  Anthicidae  3.5 mm long

No hood. Several genera similar.

Coleoptera  Brentidae  2 mm

Small pear shaped white scaled weevil
Coleoptera  Bruchidae  Acanthoscelides  2.5 mm

Seed weevils. Very common. Metafemur with several denticles on ventralmesal margin near apical end.

Coleoptera  Bruchidae  Callisoscelides  3 mm

Seed weevils. No lateral pronotal lateral carina. Redish legs. Pygidium without glabrous spot.
Coleoptera  
Carabidae  
Bembidion  
3 mm
No elytral recurved central carina. Small apical palpomere.

Coleoptera  
Chrysomelidae  
Chaetocnema  
3 mm
Swollen hind femur. Punctures in rows like 399, but hind femur with indentation and 1st tarsal seg short.
Typical flea beetle with swollen hind femur.

Coleoptera Chrysomelidae Glypta. 3 mm

Black jumping. Punctures confused on thorax & elytra.

Coleoptera Chrysomelidae Phyllotreta. 2 mm
Coleoptera      Chrysomelidae      Phyllotreta      1.5 mm

Black, swollen femur, dorsal aspect characteristic.
No elytral punctures like Phyllotreta-2.

Coleoptera      Chrysomelidae      Psylliodes      3 mm

Wollen hind femur. Punctures in rows.
1st hind tarsa ½ as long as tibia.
1st hind tibia as long as hind femur.

Coleoptera      Chrysomelidae      Phyllotreta      1.5 mm

Punctures in rows.
n1st hind tarsa ½ as long as tibia.
Coleoptera  Chrysomelidae  Monoxia  4.5 mm

Light brown, motled & short hairs. Variable and some have no dark spots.

Coleoptera  Chrysomelidae  Pachybrachis  4 mm

Striped stocky beetles with 3 black stripes on each side between pairs of lined punctures.
Coleoptera  Chrysomelidae  Aphthona  5 mm
- metallic purple with jumping femur - basal pronotal depression - antennal callus with ridge extending over eye - open procoxae.

Spotted Cucumber Beetle
Coleoptera  Chrysomelidae  Diabrotica undecimpunctata  7 mm
Coleoptera  Chrysomelidae  Xanthogaleruca  8 mm

Elm Leaf Beetle.  Black striped / yellow background. Hourglass spot mid pronotum and round spots on each side pronotum. In Etoh all dark, must dry to see patterns.

Golden Tortoise Beetle. Coleoptera  Chrysomelidae  Charidotella sexpunctata  8 mm
Coleoptera  Cleridae  Phyllobaenus  4 mm

Thorax narrower than head or body.
Eyes large & bulging.
Large Max. Palps.
Body with hairs sticking out all over.
Typical larva of Lady Beetles. This one only 3 mm but can get much larger depending on species. Predacious on various life from mites to aphids to larger insects.

Coleoptera  Coccinellidae

Typical larva of Lady Beetles. This one only 3 mm but can get much larger depending on species. Predacious on various life from mites to aphids to larger insects.
**Coleoptera**  
**Coccinellidae**  
**Stethrus**  
1 mm

- Postcoxal line reaching and joining margin of ventrite.
- Probably eats spider mites & others.
- Prosternum protruding over mouthparts. Prosternum not carinate with 2 lines. Smaller than Scymnus.

**Coleoptera**  
**Coccinellidae**  
**Diomus**  
1.5 mm

- Postcoxal line reaching and joining margin of ventrite.
Coleoptera  Coccinellidae  Scymnus  2-3 mm

Larvae with waxy scales. Larger than Stethrus. No tan spots.

Prosternum carinate with 2 lines.
Prosternum not protruding over mouthparts.
Coleoptera  Coccinellidae  Hyperaspis quadrivittata  3 mm
Black with marginal and central pale stripes.

Coleoptera  Coccinellidae  Hyperaspis undulata  3 mm
Shiny black with pale spots thorax and elytra. Undulata refers to wavy line on edge.
Coleoptera Coccinellidae Hyperaspis? 3 mm
Pale spot each side pronotum & elytra. No other spots on head
Aphids and scale insects; probably other small, soft-bodied insects as well

Coleoptera Coccinellidae Hyperaspis 1 4 mm
2 dots and side slash on each elytra. No other spots on head

311
Coleoptera  Coccinellidae  Hippodamia apicalis  4 mm

Apical marking connecting at the midline suture. Pronotum with pale median spot at base. Tarsal claw with small median tooth.

3 spots on each side with one spot shared near front.

Coleoptera  Coccinellidae  Coccinella septempunctata  7 mm

3 spots on each side with one spot shared near front.
Coleoptera  Coccinellidae
Hippodamia caseyi  6 mm
Casey’s Lady Beetle

Coleoptera  Coccinellidae
Coccinella transversoguttata  6-9 mm
**Coleoptera  Coccinellidae  Coccinella novemnotata**

4.7-7 mm

Head with broad, pale band between eyes- anterior pronotal margin entirely pale- elytral suture narrowly blackish- elytra with or without spots.

**Coleoptera  Coccinellidae  Hippodamia convergens**

8 mm

Converging lines on pronotum. Variable patterns on elytra.
Alfalfa Weevil

Head black, prolegs every segment
Brown banded scales - prothorax long white stripe

Coleoptera Curculionidae Hypera postica
6 mm

204

186 4x6b = 204
Coleoptera  Curculionidae  Mecinus pascuorum  1.5-2 mm
Host: plantain (Plantago lanceolata) Adventive
Reddish brown elytra characteristic but has to be dried to see.

Coleoptera  Curculionidae  Anthonomus  2-3 mm
Long rostrum. Covered with white flat scales.
Coleoptera  Curculionidae  Sitona  4.5 mm

Bristly surface and marked with mid dorsal stripe.

Coleoptera  Curculionidae  Entiminae

Light brown covered with wide scales and papillae sticking up.

Scroble lateral and angled down.
Coleoptera     Curculionidae      Sitona   5 mm
Black-retriculate broad prothorax.
1 ocellus in middle of top of head.
Black - elytra w/ orange spots & lines of white hairs.

Coleoptera    Dermestidae     5 mm
1 ocellus in middle of top of head.
Black-retriculate broad prothorax.

Coleoptera Dermestidae 5 mm

411

172
Coleoptera Latridiidae 2 mm

Coleoptera    Leiodidae      3 mm
Brown circular beetle. Club without reduced 8th which many Leiodidae have.

Coleoptera    Meloloea Lyra    Blister Beetles   10 mm
All black. Elytra are soft & flexible. Tarsal claws cleft to base. Pronotum narrower than head or elytra. Produce cantharidan (blistering agent).
Coleoptera     Melyridae     Dasytinae     4 mm

Coleoptera Melyridae Collops A 4.5 mm

Soft-winged Flower Beetles. Larvae predacious.
Top = male (large 2nd antennae segment).

Coleoptera Melyridae Collops B 8 mm

Soft-winged Flower Beetles. Larvae predacious.
♀ prothorax +/- all orange.
Coleoptera
Melyridae
Malachius
5 mm
Orange lateral pronotum & orange spots.
Larvae predacious.

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Coleoptera
Mordellidae
Mordellistaena
5 mm
All black with a sharp spine at end of abdomen. Mordellistaena is by 2 or more lateral ridges of small spines.
Larvae predacious.

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Coleoptera
Mordellidae
Mordellistaena
5 mm
Orange lateral pronotum & orange spots.
Larvae predacious.
Coleoptera     Scraptiidae

Pentaria

Brown with 4 yellow spots on elytra. Emarginate eyes. Large max palps. Wedge shaped, but without spine at end of abdomen like mordelids.

All brown no patterns. Emarginate eyes. Large max palps. Wedge shaped, but without spine at end of abdomen like mordelids.

Coleoptera     Scraptiidae  

2 mm.  

261  

273
Coleoptera     Staphylinidae     6 mm     Rove Beetles
Head and legs missing from top. Brown and upflexed abdomen.

Short elytra, curved up abdomen. Head and legs missing from top. Brown and upflexed abdomen.

Coleoptera     Staphylinidae     1-5 mm     Rove Beetles
Bottom possibly same species.

291

192
**Hemiptera**

**Anthocoridae** 1 mm

Predator. Characteristic white and black dorsal surface.

**Hemiptera**

**Coreidae** 7 mm

Wing apical membrane with lots of veins (compare with Lygaeidae, which has 4 main veins in wing membrane). Mostly dark dorsally and cream ventral.
Hemiptera     Coreidae     12 mm

Many spines on hind ventral femur different than #271.

Brown patterned with light strips from head to thorax.

4 big spines apical 1/3 hind femur. Head shorter & narrower than thorax.

Many veins in wing membrane.

Hemiptera     Coreidae     10 mm

Brown patterned with light strips from head to thorax.

All black with bulging eyes. Many veins in wing membrane.

Hemiptera     Coreidae     12 mm

4 big spines apical 1/3 hind femur. Head shorter & narrower than thorax.

Many veins in wing membrane.
Hemiptera  Coreidae  9 mm

Light colored with red dots.  Head shorter & narrower than thorax.  Many veins in wing membrane.  Nymphs red head and white spots on abdomen.

Hemiptera  Coreidae  7 mm

Nymph.  Don't know the adult appearance.  Pale with 2 big spots & 4 small spots on dorsal abdomen.  Spots disappear after drying.

Nymphs.  Spots on abdomen.  Pale with 2 big spots & 4 small spots on dorsal abdomen.
Hemiptera     Coreidae     8 mm
Nymph. 3 white spots abound a red spot on abdomen.

Hemiptera     Coreidae     8 mm
Adult. Brown covered with lots of dark spots.
Hemiptera  Geocoridae  Geocoris atricolor  4 mm

All black with pale joints of antennae.

Big-eyed Bugs.
Wing membrane with only 4 or 5 veins.

Mostly dark dorsal and ventral (compare with Coreidae).

Hemiptera, Lygaeidae
3-4 mm
Hemiptera     Miridae     2 mm.

Reddish brown.  1st antennal seg broad.  Large eyes that wrap around pronotum.  Like Anthocoridae nymphs, but not with few higher lines.

Light green.  Small eyes - speckled legs.  Dorsum mostly clear.

Hemiptera     Miridae     2 mm.
Hemiptera     Miridae

Redish nymphs.  2 mm
Hemiptera  
Miridae  
2.5 mm  
Shades of brown. Large eyes. Spotted legs and antennae.

Hemiptera  
Miridae  
2-3 mm  
Male of 340?  
Anthochorid like. Black with clear spots on wings. Antenna 1 & 2 thickened.
Hemiptera     Miridae     3 mm   Female of # 15

Elongate body and wings black with white cuneus break.

All black with smoky elytral membrane.

White narrow scales sparcely covering all. Body stocky.

Views: side, dorsal, & head.
Hemiptera Miridae
Light Green
3 mm

Ant like mirid
Small nymph to adult with partial wings
3 mm – 10 mm
Hemiptera Miridae 4 mm
Cream - no marks - narrow
Hemiptera  Miridae  4 mm

Likel 15, but more black (Anthochora-like small) and long.

Hemiptera  Miridae  4 mm

Black & brown with white markings. Red eyes.

One large & 1 small cell in membrane.

Black & brown with white markings. Red eyes.

Hemiptera  Miridae  4 mm

174  79
Spiky nymph. Never associated it with an adult.

Hemiptera  Miridae I think.      5 mm

Red & Black bug  (Bugguide).

Hemiptera  Miridae      Oncerometopus      5 mm
**Western Tarnished Plant Bug**

- Hemiptera
- Miridae
- Lygus

- Length: 5-6 mm
- Extremely variable
- Heart shaped scutellum
- Light green to rust red, thorax rough with 2 spots
- Nymphs: 1-5 spots
- All black with yellowish legs

Additional Information:
- 37 = top
- 59 = bottom
Hemiptera     Miridae     7-8 mm Grass Mirid

Elongated with darker spots on hemilera and 2 small very dark spots on pronotum, membrane dark. 2 long, longitudinal stripes on scutellum.

Long and narrow with long antennae.
Hemiptera  Nabidae  8 mm

Predators.  Raptorial legs.  Ventral tips of front and middle

Hemiptera  Nabidae  8 mm
Hemiptera  Pentatomidae  15 mm  
Green/tan Stink Bugs  
Nymphs of this ??? sp 51

Hemiptera  Pentatomidae  Chlorochroa  10 mm  
Rugose dark dorsal with orange on tip of scutellum and edge of abdomen. Primarily a seed feeder preferring leguminous plants.
Hemiptera  Reduviidae  9 mm  Nymph. Curved beak resting between front coxae.

Hemiptera  Rhopalidae  8 mm  Scentless Plant Bugs  No scent gland between med and hind coxa (Coreidae has them). Usually light colored and less than 10 mm.
Hemiptera            Rhyparochromidae                         5 mm
Dirt-colored Seed Bugs.
2 white scutellar spots. Wing apical membrane - only 4 or 5
veins like Lygaeidae. Suture between abdominal segments 3-4
curving forward (arrow). Suture between abdominal segments 3-4
curving forward from femur. Spines inside thickened front femur.
Spines inside thickened from femur. Spines inside thickened from femur.

Hemiptera        Rhyparochromidae     Raglius sp.      5 mm
Dirt-colored Seed Bugs. Like sp 121 but different species.
Suture between abdominal segments 3-4 curving forward
2 white scutellar spots. Wing apical membrane - only 4 or 5
Hemiptera     Tingidae     3 mm     Lace Bugs

All tan.

Hemiptera     Scutelleridae     Shield-baked Bugs     9 mm.

Tibia without strong spines & shoulder rounded & large shield.

85

275
Lace Bugs: 5 mm is w/out antennae. Reticulated wings. Overlapping distal portions of wings. Frons with 3 ridges.

Hemiptera Tingidae Melanorrhopala clavata. 5 mm

Homoptera Achilidae 5 mm

Hemiptera 349

349 412
Homoptera     Cercopidae   Froghoppers   6-7 mm
When dry covered with silvery hairs that hide patterns.
Like 270 but with stripe on back of head and thorax.

Homoptera     Cercopidae   Froghoppers   6 mm
Eyes dark and ocelli almost invisible centered on clypeal
Edge. All tan with 2 dots on front edge.
Cercopids have large spines on hind tibia & antennae in
Front of eyes.

270  

379
Homoptera     Cerocopidae      Froghoppers  11 mm
Large tan, 2 red ocelli close to center line away from clypeal edge. Antennae in front of eyes.

Homoptera     Clastopteridae (once in Cercopidae)  3 mm.
Broad front end with big eyes and narrow tail end with eye spots that look more realistic than the "real" front.
Homoptera
Cicadellidae 2.5 mm

All pale wings w/ white spots.
Ocelli on front edge midway to middle of a broadly rounded front edge.
Arista reaches back to rear edge of eye.
Homoptera Cicadellidae 3 mm

Solid black all over. Short antenna. Stocky.

Small green. Long antennae. Ocelli on front edge closer to eyes than middle between large eyes.

Homoptera Cicadellidae 3 mm
Homoptera  Cicadellidae  3.5 mm
Orange with ocelli on front edge near eyes.
Antennae long extending way behind eyes.

Homoptera  Cicadellidae  2 mm
Clear wings with 2 smoky bands.
Homoptera Cicadellidae 3.5 mm

Less melanized version of 203, but the same. Long arista.
Black abdomen, light green wings. Ocelli frontal edge near eyes. Horizontal striped frons.

Homoptera Cicadellidae 4 mm

Darker than 196, but the same. Long arista.
Black abdomen, light green wings. Ocelli frontal edge near eyes. Horizontal striped frons.

196 (=203)

203 (=196 official #)
Homoptera  Cicadellidae  4 mm

Frons with horizontal stripes - body light w/ dark forward area. Long antenna. Ocelli on front edge near eyes.

Small green, dark dorsal abdomen. Long antenna. Ocelli on front edge near eyes.

Possibly one that has not expanded its wings and hardened.

Homoptera  Cicadellidae  4 mm
Homoptera  Cicadellidae  3-4 mm
Most common leaf hopper.

Homoptera  Cicadellidae  4 mm
Like #7 but dark?
Homoptera  Cicadellidae  4.5 mm
Sharp pointed head. All tan color.
Ocelli on front edge next to eye.
Arista back to wings. Wings slightly darkened veins.

Homoptera  Cicadellidae  3-5 mm
Ocelli on front ridge near eye. Frons stripes.
Ocelli partially surrounded by spot. Wings patterned.
Homoptera  Cicadellidae  4-5 mm

B / W pattern nymphs & adults with striped legs.

Homoptera  Cicadellidae  3+ mm nymph

Hubrispore- (head at top)- red eyes- central light stripe.

Homoptera  Cicadellidae  330

330

73
Homoptera  Cicadellidae  5 mm

Motled pattern nymph #46 & Adult #143
Long arista. Ocelli on edge in front of eyes.

Red eyes - banded legs - reticulated wings and white undersides of head. Long arista. Ocelli on front edge almost touching eyes.

Homoptera  Cicadellidae  5 mm
Homoptera  Cicadellidae  7 mm
White / Brown Longitudinal Stripes
Eyes on rounded front edge, near edge.
3 Long lines head to tail under wings. Wings with long lines.
Transverse line between eyes on front edge.
Homoptera  Cicadellidae  Sharpshooter  5.5 mm
Homoptera    Cicadellidae

Short arista +/-, Ocelli on edge in front of eyes.
7 mm speckled darker than 143 and longer

Homoptera    Cicadellidae

299

XX
Homoptera  Cicadellidae  7 mm

Qcelli mid frons, frons flat & reticulate
Pale, frons flat/concave & reticulate

Antennal arista short not reaching past prothorax.

Antennal arista short not reaching past prothorax.

Nymphs with dots all over.

Tan with Qcelli on front edge. Light band across prothorax.

Nymphs with dots all over.

Tan with Qcelli on front edge. Light band across prothorax.
Homoptera  Cicadellidae  7 mm Sharpshooter.

- Short arista. Opaque green.
- Ocelli near eyes toward center with a dark line going forward and down over edge to antennae.

Homoptera  Cicadellidae  4-8 mm

- Light green/tan adult. Arista long reach to rear of eye.

Homoptera  Cicadellidae  7 mm Sharpshooter.

- Short arista. Opaque green.
- Ocelli near eyes toward center with a dark line going forward and down over edge to antennae.

- Transparent wings. Eyes wrap.
Homoptera  Cicadellidae  Shooter brown 2 sp here I think look at eyes
Both with long antennal arista. Ocelli from edge near eyes.

Homoptera  Cicadellidae  Sharpshooter 9 mm
Ocelli on central area. Long antennal arista reaching past prothorax.

All light tan without marks.
Homoptera

Cicadellidae

9 mm.

Clear wings with dark veins. Antennae under eyes.

Head flat. Pale.

Arista short. Ocelli front edge near eyes.

Wings shorter than sharp abdomen.

Homoptera

Cixiidae

4.5 mm

9 mm.

Clear wings with dark veins. Antennae under eyes.

Head flat. Pale.

Arista short. Ocelli front edge near eyes.

Wings shorter than sharp abdomen.
Homoptera Delphacidae 3 mm

Black body - white spot dorsal abdomen, black wings - cream color head & legs - large hind tibial spur and large thumb like basal antennal segment.

Nymph and Adult

Nymph cream colored with narrow black stripes each side dorsal abdomen. Large hind tibial spur and large thumb like basal antennal segment.

Homoptera Delphacidae 4 mm

Body and wings veins.
Homoptera     Dictyopharidae      5-8 mm

Nymph- tan with frontal extension.

Adult frontal extension which is straight in life.

Homoptera      Fulgoridae ?    4 mm

Nymph.  3 ridged on front between antennae.

Big spines on legs. Antennae below eyes.

Not sure of family without characters available.

Homoptera     Fulgoridae  4 mm

307

Homoptera     Dicynothoridiae  5-8 mm

189
Homoptera    Fulgoridae ?    1 mm

Nymph. 3 ridged on front between antennae. 
No spines on legs. Antennae below eyes.

Homoptera    Membracidae    Micrutalis    3.5 mm.
Abdomen & head cream colored. Black thorax (over abdomen). No projections.
Abdomen & head cream colored.
Homoptera  Membracidae  5 mm.

Smaller than 87 with 2 dark spots on dorsal ridge plus lighter spot on top front.

Homoptera  Membracidae  4.5 mm.

Like 87 all pale except cloudy ends of wings & head. Still beautiful before acetone treatment.

One in sample.
Homoptera  Membracidae  6 mm

Rounded pronotum on sides and from (see 427).
Special end cell almost triangular (see 245).
No black spots on ridge or prominent veins. Front wing.

87

Dark head and body. Frontal extension. Front wing end cell long and rounded not triangular.

245
Homoptera     Homoptera     Membracidae     8 mm

Like 87, but instead of rounded pronotum, the sides stick out with sharp points.

Homoptera     Psyllidae     4 mm     Jumping Plant Lice

Wings patterned and body brown.

Homoptera     Membracidae     8 mm

XX
Homoptera
Psyllidae
3 mm
Jumping Plant Lice
Wings clear and body pinkish.

Homoptera
Psyllidae
4 mm
Jumping Plant Lice
Wings patterned and body brown.
Homoptera  Psyllidae  4 mm  Jumping Plant Lice.

Wings clear and black/white pattern on all body parts.

Homoptera  Psyllidae  2.5 mm (including wings)

Large stigma and smoky veins with Y at tip.
Homoptera  Psyllidae  3-4 mm Jumping Plant Lice.

Homoptera  Scale 1st instar crawler < 1 mm.

Body cream color and wings speckled.
Hymenoptera
Andrenidae
9 mm (many smaller)

Andrenidae dark body with lots of fur and sutures & long hind wing long cell. 3 submarginal cells (some 2).

Abdomen attached with a broad waist. Most primary parasites of Homoptera. Possibly several species. Light, dark, bicolored.
Hymenoptera    Apidae    Apis melifera  12 mm long

Honey Bee.

Hymenoptera    Apidae    Bombus  14 mm

Bumblebee. All black with light hairs on thorax. Dark short hairs on face (above & below antennae).
Hymenoptera

Hymenoptera
Bethylidae
Epyrinae
2 mm long
Parasite

Small - Long antennae. Black thorax, brown body -

Hymenoptera Braconidae

1-2 mm long
Hymenoptera     Braconidae     2.2 mm.

All black. Thick shorter antennae. Large stigma & few veins.

Hymenoptera     Braconidae    2.5 mm

Hard fused abdominal 1-3 tergites encasing the rest. Large semicircular stigma.
Hymenoptera  Braconidae  2.5 mm.

Red or black side, black dorsal.

Hymenoptera  Braconidae  3 mm.

Hymenoptera  Braconidae

Antenna almost as long as wings. Legs yellow.

Reduced venation. Stigma narrow.

Hymenoptera  Braconidae  4-4 mm.
Hymenoptera     Braconidae     Chelonus     5 mm

Black hard abdominal covering. Subgenus Chelonus - antennal segments: 17 or more.

Microchelonus - 16 or fewer.

Hymenoptera     Braconidae      5 mm + ovipositor

All Red and long antennae and ovipositor.
Brachonidae vs Ichneumonidae

Hymenoptera  Ceraphronidae  2 mm

Long scape attached near mouth. Half moon vein in wing before stigma. Mid-tibia with only 1 apical spur.

Brachonidae generally have that extra vein. Counting cells 1 to 3 helps find that vein, but the yellow veins may be vague or absent.

Ichneumonidae have that extra vein.

The arrow points to a vein that is absent in most Brachonidae (general rule). Ichneumonidae generally have that extra vein.

The key is the vein pointed at and that may be faint.

This does not work for all, but is a general rule that at least provides an easy way to group most of them. Let the experts correct the few mistakes that might be made.
Hymenoptera Chalcididae: *Conura*

- Head and thorax black with white patches - abdomen and femur with patches of brown and white, also 10 varying size teeth.
- Metatibia apically a sharp spine.
- Petiole long.

Hymenoptera Chalcididae: *Psilochalcis*

- All black - tarsi & antennae tan.
- 1st antennal seg anelliform. Abdominal tergite 1 margin arcuate. Hosts Pyralidae & Gelechiidae.
Hymenoptera  Chalcididae  Brachymeria  4 mm

Mostly black, light tegula & parts of legs.
Hymenoptera  Chrysididae  3 mm

All green. Ventral abdomen concave.

Hymenoptera  Colletidae  Hylaeus  5 mm

Plasterer & Masked Bees

Bees = branched hairs. White faces with strong lines - one suture under each antennae. Unique yellow patterning on face beside the eyes. No metallic sheen.
Hymenoptera Crabronidae

Eyes parallel & face square.

1 submarginal cell rectangular.

White on pronotum & scutellum & white strips on all legs.

Usually 2 submarginal cells.

Eyes parallel & face square. No white on pronotum or scutellum.
Hymenoptera Crabronidae 7-8 mm
Yellow stripes on abdomen.
Hymenoptera  
Diapriidae  

Round head. Long antennae on shelf mid front of head.

Leaffopper. 
Grasping spines (holding leg part). Adults predacious on leafhoppers. Adult is an ant-like wingless adult. Fore tarsi of female are large grasping pincers (holding leg part). Pupae on top. Host is an ant-like leafhopper larva (wings are on top). Bottom is an ant-like leafhopper larva (wings are on top).

Hymenoptera  
Dryinidae  

Adult 3 mm

Leaffopper host for larva (with pupa on top). Wings with setal fringes and scattered setae on wings. Adult predacious on leafhoppers.

47  &  117

327
Hymenoptera, Eucharitidae, Pseudochalcura gibbosa, 3 mm

Male with feathery antennae.

All black, huge shiny hind coxae, as long as femur and twice as wide as the femur.

Abdominal petiole attached above hind coxae not between.

Abdomen compressed, 2nd seg large.

Pectinate antennae may be sex difference.
Hymenoptera
Hymenoptera
Encyrtidae

< 1 mm

Encyrtidae - mostly light cream and light brown < 1 mm.

Hymenoptera
Encyrtidae

1 mm +/-

Stocky body. Green. Mesopleuron large & mesocoxa inserted close to procoxa. Axillae large triangular.
Hymenoptera 

**Encyrtidae** 

1.2 mm

- Cream colored with long antennae.
- Elongate (compared to 211) black-thick antennae.
- Hard bodied and head not surrounding pronotum. Stout antennae.
- Intact 1 mm.
Hymenoptera  Encyrtidae

**211**

Hymenoptera  Encyrtidae  1 mm


Only larva light colored and less stocky. Antennae hairy and not compact.
Hymenoptera
Eulophidae
< 1 mm
Metallic green with 2 dark bands on wings.

Hymenoptera
Encyrtidae
2 mm
White band on antennae. Smoky bands on wings.
Hymenoptera     Eulophidae     1-2 mm

Large. Wing veins obvious. Legs all yellow or brown.
Brown abdomen. Green head and thorax. Eyes red and
dark with dark bands.
4 tarsal segments. Flagellum 3-6 segments. Soft bodied.

Hymenoptera     Eulophidae     < 1 mm

Wing veins very faint. Legs with dark bands.
4 tarsal segments. Flagellum 3-6 segments. Soft bodied. Brown

128

263
Hymenoptera Eulophidae

Black/green. Legs with labia and elbows yellow.

Hard body. 4 tarsi. Flagellum 3-6 segments.

eyes red. Legs antennae & head pale.

Pedicel (1st ant seg) huge. Thorax metallic green. Body brown.

Hymenoptera Eulophidae 1-2 mm

Hymenoptera Eulophidae > 1 mm

33 253
Hymenoptera  Eulophidae  Zagrammosoma  1.5 mm
Red eyes, patterned wing, pale ventral & legs, dark dorsal.
Stored in etoh.  150.3.

Hymenoptera  Eupelmidae  3 mm
Green.  7 seg funicle (antenna section).  Mesopuron longer than high with mid coxa attached posterior to midline.
Long oppositor.  Mid tibial spur large & hind coxa large.
Hymenoptera  
Eupelmidae  
3 mm

Wings vestigial. Mesopleuron and mesotibial spurs large. Long ovipositor.

Hymenoptera  
Eurytomidae  
2 mm

Petiole-antennae longer and segments separated. Black with fuzzy antennae and long petiole.
Hymenoptera     Eurytomidae     2.5 mm
Black with yellow on parts of legs. Abdomen appears sessile.

Hymenoptera     Eurytomidae     2 mm
Black head & thorax-brown body. Cynipidae-like but raised, teardrop-shape on the dorsal surface of the thorax (arrow).

Eucoilines are all primary parasites of fly pupae.

Parasitoids of flies mostly, although they also parasitize Neuroptera (lacewings) and other Hymenoptera.
Hymenoptera
Formicidae
Solenopsis

3.5 mm winged. 2 petiole nodes same size. No spines. Not
Hymenoptera Formicidae Solenopsis 2.5 mm

2 petiole nodes.

bifid
ending with
leath on
anterior
clypeal
border.

Antennae. No spine on posterior thorax (propodeum). Clypeus
Fire Ants and Thief Ants. 2 segmented antennal club. 10 seg.

Hymenoptera Formicidae Solenopsis 2 mm

403
One visible in picture. 1 petiole sharp node.
Joining with a deep groove. Erect long hairs on pronotum.
Scare hanging over mandibles. Mesos-notal/propodium
All brown. Bottom pic - clypeal margin convex with curved

Hymenoptera  Formicidae  Formius  2.5 mm
Hymenoptera    Formicidae     Tapinoma      2-3 mm

Node flat.  Thorax without projections and shallow sloping toward abdomen.  Abdomen only 4 segments visible.

Hymenoptera    Formicidae     Formica     3-4 mm

All brown.  1 rounded petiole node.  With a acidopor (small round hole at abdominal end).

7 or more teeth on mandibles.
Hymenoptera  Formicidae    Dorymyrmex    3 mm

One Small sharp node- 1 central Sharp point on propodium
Hymenoptera  Formicidae    Tetramorium    4 mm max

clypeus which surrounds them.
2 rounded pedicel nodes. Arranged in deep pit next to
A pair of spines on propodium (posterior thorax).

(thorax forward of node). Sloping end of thorax.
Hymenoptera  Formicidae  Crematogaster  6 mm

High attach to abdomen. Abdomen heart shape from above.
Large propodium spines (1st node flat, 2nd node bump)
11 seg antennae. Abdomen can bend Abd. over head between
Hymenoptera     Formicidae     Formica     5-7 mm

Node on petiole low and rounded. Propodeum with sharp
high sharp petiole node. Sometimes all brown.
Round hole with circle of hairs (ocelli pore) at rear end.
No points on sloping thorax.
1 high sharp petiole node. Small eyes-

Hymenoptera     Formicidae     Formica     10 mm

Queen Ant- novelty wings removed. Small eyes-.
Most Halictidae have "J" shaped vein (see sp 95).
12 mm  Honey-bellied Agapostemon

Hymenoptera  Halictidae  Agapostemon melliventris

Wings cut off.  Probably queen of sp 23.  1 pedicel node &

Hymenoptera  Formicidae  Formica  10 mm

336

242 (=23)
Hymenoptera     Halictidae     5 mm           Sweat Bees
Notice archad „J“ shaped vein (arrow) in forward wing distal end of first big cell common to most (?) Halictidae.

Hymenoptera     Ichneumonidae     4 mm + ovipositor. All black with light color legs. See „Brachonidae“ diagram to see the difference between these two families.
Hymenoptera Mymaridae  1 mm

Similar to 76, except black & yellow dorsum (top). Red eyes.

Stored in Etoh.

Egg parasite. Antennae high on head spaced wide under straight long suture. Long antennae. Wings with setal fringes.
Hymenoptera       Platygastridae       1-2 mm
Antennae attached near mouth - 10 or less segmented.
1st antennal segment long & slender.
Fore tibia with 1 apical spur.
Forewing without stigma or postmarginal vein.

Hymenoptera     Pompilidae     Spider Wasp     12 mm
Large black wasp with horizontal transverse sulcus across the mesopleuron (circled).
Antennae attached near mouth - 10 or less segmented.
Hymenoptera     Pteromalidae     < 1  mm
Smoky stripe on wing & stippled with hairs like a
Trichogrammatidae.

Hymenoptera     Pteromalidae    Eunotus   1-2  mm
Smoky wings and large flat head wraps around thorax.
Antennae funicle 2 or 3 seg. Light color- club dark. Wing

Green thorax.

331

148
Hymenoptera  Pteromalidae

All black & shiny head wraps around thorax like Eunopus 331

but abdomen flat on top.

1-2 mm
Hymenoptera  Pteromalidae     1.2  mm

Yellow scape & higher wing vein. Abdomen pointed.

Hymenoptera  Pteromalidae     2 mm +/-


Black head & body with brown abdomen femur and scape. In etoh red eyes. Abdomen roundish.

11, 167, 170,

164
Hymenoptera
Pteromalidae
1.5-2.2 mm
Bright green body & head with brown or dark abdomen & yellow legs & scape (first antennal segment).
Hymenoptera Scelionidae < 1 mm

- Black abdomen & brown body. Egg parasites.
- Antennae ~ 2x length of scape.
- Long antennae > 4x length of scape.

Hymenoptera Scelionidae < 1.2 mm

- Black abdomen & brown body. Egg parasites.
- Antennae ~ 2x length of scape.
- Antennae > 1.2 mm

Hymenoptera Scelionidae > 1 mm
Hymenoptera  Scelionidae  1.2 mm

Stocky. Egg parasites.

Wings with strong vein and sigmal vein. Abdomen dorsoventrally compressed.

Antennal flagellum 2x length of scape. Antennae low on face.

Wings with strong vein and sigmal vein. Abdomen dorsoventrally compressed.

Antennal flagellum 2x length of scape. Antennae low on face.

Hymenoptera  Scelionidae  1.5 mm

Scelionidae 1.2 mm. Angled lateral ridges with petiole.

Scelionidae 1.2 mm. Angled lateral ridges with petiole.

Hymenoptera  Scelionidae  1.5 mm

Scelionidae 1.2 mm. Angled lateral ridges with petiole.
Hymenoptera  Scelionidae  Calliscelio  3 mm


Hymenoptera  Scelionidae  Sceli0  3-4 mm

All black. Stout antennae cf to 274. Dorsoventrally flattened abdomen & antennae attached at mouth.
Hymenoptera  
Sphecidae  
Sceliphrinae  
Thread-waisted Wasps.  15 mm

Black head, legs and thorax with orange red abdomen with black spots.
Hymenoptera     Torymidae     2 mm
Metallic green/brown coloration, sculptured thorax, long

stigma large and veins strong.

Long ovipositor. Metacoxae large.
Hymenoptera  Trichogrammatidae  0.5 mm

Smoky band basal wing. Red eyes. 3 larval segments.
Antenna with scape - pedicle - club (funicle missing between pedicle & club).
Egg parasites.