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Culex. Linn. Meig.

C. musicus. Tergum purplish, with lateral yellowish spots.
Inhab. Indiana.

Head dull honey-yellow: vortex blackish with yellowish hair: proboscis and palpi black: thorax black-purple, with yellowish hair or scales: wings dusky: poised white, a little dusky at tip: tergum purple, or violaceous, with a band at base, and large lateral spot on each segment of yellowish hair or scales: feet black-violaceous: thighs, excepting at tip, and coxae whitish, sericeous: tarsi, two terminal joints of the posterior pair white.
Length more than one-fifth of an inch.

Chironomus.

C. tanionotus. Stethidium green, trilineate; a black line on the middle of the anterior line.
Inhab. Indiana.

Body bright pea-green: head yellowish, terminal joint of the antennæ blackish: thorax with three dilated, pale honey-yellow vitta; a black line along the middle of the anterior one: wings white: meta-thorax pale honey-yellow, with a blackish spot in the middle, divided by a green line: tergum immacu-
late: *pectus* pale honey-yellow; *feet* pale greenish, anterior *tibiae* and tarsal incisures dusky.

Length more than one-fifth of an inch. 2

C. *devinctus*. Tergum black, incisures white; *feet* with black incisures.

Inhab. Indiana.

*Body* dusky: *stethidium* dusky livid: *thorax* tri-lineate with blackish: *scutel* dull honey-yellow: *halteres* and *wings* white: *tergum* brownish-black; incisures, particularly those near the base, white: *thighs* black, anterior pair pale at base; the others with a white annulus near the tip: *tibiae* and *tarsi* white, with black incisures.

Length nearly one-fifth of an inch.

**Ceratopogon. Meig.**

C. *scutellatus*. Black; *scutel* yellow; abdomen whitish.

Inhab. Indiana.

*Head* blackish: *mouth* yellow: *thorax* pale yellowish, with three black lines, which are widely dilated before, and confluent: *scutel* yellow: *wings* dusky: *poisers* white: *abdomen* whitish: *feet* whitish.

Length nearly one-twentieth of an inch.

Appeared in considerable numbers on the last of August, soon after sunrise.

**Limnobia. Meig.**

L. *livida*. Tergum livid, with a yellowish margin.

Inhab. Mexico.
**Dipterous Insects.**

*Head* yellowish-brown, with a longitudinal fuscous line: *antennæ* fuscous, paler at base; joints rounded: *thorax* yellowish-brown, trilineate with blackish, exterior lines dilated, middle line capillary: *metathorax* with a grey reflection, yellow each side: *poisers* elongated, reaching the tip of the second abdominal segment, yellow, with a lateral dusky line: *wings* with a slight yellowish-brown tint, cross nervures margined with dusky: *tergum* livid, with a darker dorsal, and submarginal line, and yellowish margin: *pleura* bilineate with fuscous; superior line passing round the pectus before the anterior feet, and the inferior line behind them: *feet* yellowish, with an obsolete dusky band towards the tip of the thighs: *venter* livid, with a yellowish margin and obsolete middle line.

Length more than one-fourth of an inch.

The nervures are arranged nearly as in *L. lutea*, Meig.

**Tipula.**

*T. annulicornis*. Pale; *antennæ* annulate with black.

Inhab. Indiana.

*Body* very pale honey-yellow: *antennæ* with a black annulus on each joint: *palpi* black at tip: *wings* immaculate: *tergum* with obsolete, dusky, slightly undulated bands.

Length under one-fourth of an inch.
Platyura.

P. subterminalis. Yellowish; wings with a subterminal band.

Inhab. Indiana.

Body entirely pale honey-yellow: antennæ, excepting the two basal joints, fuscous: ocelli with a small black areola: thorax immaculate: wings with a slight yellowish tinge; a blackish, subterminal band, occupying on the costal margin all the space between the small cross nervure and the tip of the next long nervure, and extending to the thinner margin: tergum a little more dusky than the thorax: tibīæ and tarsi dusky.

Length three-twentieths of an inch.

Nervures as in P. baumhaueri, Meig, but the small cross nervure on the costal margin is perpendicular to the costal edge.

Leia. Meig.

L. bivittata. Honey-yellow; trunk bilineate, and tergum with two series of black punctures.

Inhab. Indiana.

Body rather pale honey-yellow: antennæ black at tip: stemmata very distinct, in a curved line: thorax a little hairy, on each side a dilated black vitta: wings fasciate near the tip: tergum on each side with a series of oval black spots: coxae white.

Length over three-twentieths of an inch.

Taken on the window in June.
Mycetophila. Meig.

M. discoidea. Thorax pale with a blackish disk; wings with a fuscous spot.
Inhab. Indiana.

Head blackish: antennæ whitish, at tip blackish: thorax pale honey-yellow; disk blackish owing to three vittæ of that colour being confluent into one: wings hyaline, with a fuscous spot on the connecting nervures: tergum blackish, somewhat sericeous: poisers whitish: feet whitish, with blackish tarsi: abdomen whitish at base.

Length more than one-tenth of an inch.
Belongs to Meigen’s first division of the genus.

M. nubila. Dusky; wings immaculate; feet whitish.
Inhab. Indiana.

Body dusky, brownish: antennæ first and second joints yellowish: thorax on the humerus dull honey-yellow: scutel dull yellowish: wings hyaline, immaculate: poisers whitish, capitulum dusky before the tip: abdomen slender, gradually enlarging to the tip: tergum with the tips of the segments pale; anal segment pale: feet whitish, dusky towards the tips; spines one-third the length of the first tarsal joint.

Length three-twentieths of an inch.
Belongs to Meigen’s fifth division.

Sciara. Meig.

S. unicolor. Velvet black; wings with a slight violaceous tinge.
Inhab. Mexico.

Body velvet black, with numerous short hairs: thorax with a minute humeral, obsolete piceous spot, and another at base of the wings: scutel with an obsolete piceous spot on each side: wings large, black, with a violaceous tinge; the apicial furcate nervure, as well as all the other nervures, equally definite.

Length nearly three-tenths of an inch.

S. exilis. Halteres nearly half the length of the abdomen.

Inhab. Indiana.

Body dusky: antennæ as long as the body: stethidiun yellowish-white: thorax blackish: wings dusky; apicial forked nervure wide, the inferior portion hardly arquated: halteres subclavate, about half as long as the abdomen, a little dusky: abdomen a little hairy: feet pale.

Length ⅔ one-thirtieth of an inch.

Penthetria. Meig.

P. heros. Black; costal margin of the wings fuscous.

Inhab. Mexico.

Body entirely velvet black: wings dusky; costal margin fuscous; costal edge black; nervures of the disk pale.

Length 2 two-fifths of an inch.

This I believe to be the largest species, yet discovered, of this small genus. The arrangement of
the nervures differ considerably from that of *P. holosericea*, Latr. as represented by Meigen. The male is much smaller and nearly corresponds in the arrangement of its nervures.

**Dilophus. Meig.**

*D. stygius.* Velvet black, immaculate.
Inhab. Mexico.

Body velvet black: thorax with a transverse series of approximate spines on the collar, interrupted in the middle, and a series of smaller ones before the middle of the thorax: wings blackish a little tinged with violaceous: anterior tibiae with a series of acute spines on the anterior middle and tip.

Length one-fourth of an inch.

**Beris.**

*B. fuscitarsis.* Nob. When describing this species I observed that "The scutel of my specimen is wanting; I cannot therefore ascertain its number of spines." I have since obtained individuals in Indiana and find that the scutel is altogether destitute of spines or radii. It differs in this respect from all the known species.

**Xylophagus. Meig.**

*X. fasciatus.* Wings dusky, fasciated; abdomen fasciated.
Inhab. Indiana.

Body dusky: thorax —— posterior portion ho-
ney-yellow: _poisers_ blackish at tip: _wings_ dusky, a more distinct band on the middle and at tip: _feet_ honey-yellow; hind _tibiae_ blackish: _tergum_ yellow, basal half of the four basal segments black; remaining segments nearly all black.

Length over two-fifths of an inch.

By an accident the head and anterior part of the thorax of this fine specimen were destroyed, but the above description will sufficiently indicate the species. The wing nervures resemble those of the _ma-culatus_, Fabr.

**Thereva. Latr.**

_T. albifrons._ Black, with gray hair: thorax with a blackish vitta.

Inhab. Indiana.

_Body_ black, with numerous gray hairs: _front_ silvery: _antennae_ ——: _rostrum_ dirty honey-yellow: _thorax_ with a broad fuscous vitta: _wings_ hyaline: _poisers_ black at tip: _tergum_ with the segments tipped with a more dense margin of gray hairs, wider and more obvious on the sides: _venter_, the two middle segments with a pale terminal margin: _feet_ blackish; _tibiae_ dirty honey-yellow.

Length 5 three-tenths of an inch.

Resembles _frontalis_, Nob. but is much smaller.

**Anthrax.**

_A. edititia._ Black with fulvous hair: wings fuscous at base.
Inhab.

Body black, covered with dense fulvous hair: cheeks naked; proboscis rather prominent, black; antennae, two basal joints yellowish; wings hyaline, basal half fuscous, including all the costal cellule and the middle transverse nervures which are darker than the other part; two exterior transverse nervures margined with blackish; halteres reddish-brown; tip yellow; tergum each side and at tip yellowish; venter, except on the two or three basal segments, yellowish; feet fulvous; tarsi blackish.

Length over two-fifths of an inch.

Belongs to Wiedemann’s fifth tribe.

A. limatulus. Wings fuscous at base and with three fuscous points.

Inhab. Indiana.

Body brownish-black; occiput plumceous, near the neck black, with a black indented line passing up to the vertex; wings dusky, fuscous at base, chiefly on the costal portion of it, which extends attenuating beyond the middle; anastomosis, in the hyaline portion, margined with fuscous; tergum with four series of silvery points, or rather abbreviated transverse lines.

Length ½ three-tenths of an inch.

2 two-fifths of an inch.
Var. a. Posterior cross nervure of the central wing cellule not margined.
Belongs to Wiedemann’s second tribe.

**Dasypogon.** Meig.

**D. cephicus.** Black, with short cinereous hair. Inhab. Mexico.

*Hypostoma, mystax,* and *gene* silvery: *antennæ* black, first joint of the style longer than the second: *vertex* concave, but not very profound: *stemma* on a common elevation: *thorax* with a slight appearance of lineations before: *poisers* yellow at tip: *nervures* black: *tergum* with the segments having short white hair each side: *metathorax* also somewhat silvery each side: *anterior coxae* with a slender, arquated, transverse, black common line, and a longitudinal black line of separation: *anterior tibiae* with silvery hair.

Length one-fourth of an inch.

The nervures of the wings are arranged more like those of an Asilus than of a Dasypogon, but the bi-articulate style proves the generic affinity.

**Laphria.**

**L. saniosa.** Black; abdomen sanguineous. Inhab. Indiana.

*Body* blued-black: *head* black; *front* with a silvery reflection: *posterior* and *inferior orbits* reflect-
ing silvery: wings black violet: abdomen sanguineous, first segment of the tergum blackish.

Length nearly half an inch.

**Raphomyia.** Meig.

R. rufirostra. Black; thorax lineate.

Inhab. Indiana.

*Body* hairy, black: proboscis honey-yellow, black at base: thorax blackish-cinereous, opake, with three polished, black, equal lines obsolete behind, and two less obvious ones on each side, connected to the exterior of the dorsal ones in a humeral spot: wings with a yellowish tinge towards the base, and a large fuscous carpal spot; middle cellule very short, but little longer than broad: poisers honey-yellow, with a fuscous capitulum: tergum polished: feet very hairy, polished; anterior tarsi, first joint as long as the tibia and rather more dilated.

Length 2 three-twentiths of an inch.

**Sargus.**

S. trivittatus. Green; thorax dull darker lines; tergum fasciate.

Inhab. Indiana.

*Body* grass green, not metallic, nor brilliantly polished: antennae terminal joint rounded, yellow; seta black: stemmata equidistant, in a fuscous areola: thorax trilineate with dull reddish-brown: poisers blackish at tip: tergum, segments, excepting the
basal one, with a broad dusky band at their bases: feet dull yellowish, darker at their tips.
Length from two-fifths to half an inch.

A large species, destitute of the highly polished metallic colour so striking in many species. The thoracic lines are so dilated as to give the thorax the appearance of being entirely dull reddish-brown.

**Nemoletus. Meig.**

*N. polyposus.* Black; feet yellowish; thighs black at base.
Inhab. Mexico.

Body black, with a slight tinge of purplish, polished: wings white, costal and basal nervures yellowish: poisers white: feet honey-yellow; thighs, except at tip, black; tarsi, terminal joint black; posterior tibiae black in the middle: venter immaculate.
Length more than three-twentieths of an inch.
This is closely allied to the species which I described under the name of *pallipes.*

**Stratiomys.**

*S. trivittata.* Greenish; thorax with three, tergum with one black vitta.
Inhab. Mexico.

Head yellowish-green; front and vertex brownish, each with a transverse, somewhat undulated line: antennæ reddish-brown, paler at base: thorax green, with three broad black vittæ: scutel greenish, two-
Dipterous Insects.

spined, immaculate: poiser pea-green: tergum yellowish-green, with a dilated, crenate vitta: pectus with a broad black vitta: proboscis and point each side on the hypostoma, black.

Length nearly seven-twentieths of an inch.

S. goniphora. Black; thorax with minute golden hairs; beneath greenish.

Inhab. Mexico.

Head yellowish-white, two undulated black frontal bands: vertex black, yellowish behind: hypostoma with a lateral black dot, sometimes obsolete: proboscis black: antennæ black: occiput black: thorax with numerous small golden hairs; a yellowish line over the wings: scutel black, posterior margin and and spines yellow: wings hyaline; costal nervures and cellule yellowish; middle nervures blackish: tergum black, with lateral yellow triangles and tip; beneath pale greenish: pectus on the disk black: feet yellowish, a line beneath the thighs black: venter on the posterior disk ferruginous.

Length more than three-tenths of an inch.

Baccha.

B. costata. Body black; tergum with white bands.

Inhab. Indiana.

Head silvery; a shining black line from the vertex to the mouth, much constricted on the middle of
the front: antennæ obsolely honey-yellow at base: occiput plumbeous with a silvery reflection: thorax black: poisers white: wings hyaline with a somewhat narrow costal margin, not reaching the tip: scutel margined with yellow: tergum black; first, second, and third segments with an oblique white spot on each side at base, and remaining segments tipped with white; feet black; anterior pairs, base of the tibiae and tip of the thighs honey-yellow; posterior tibiae honey-yellow at base.

Length half an inch.

Xylota. Meig.

X. arquata. Blackish; tergum fulvous with whitish arcs.

Inhab. Mexico.

Body blackish: head above with greenish hair, below the antennæ with whitish hair: vertex blackish; tubercle of the antennæ black: antennæ black-fuscous: hypostoma with a naked black vitta before, and another on each side, from the anterior canthus of the eye to the tip: thorax with short hair; with three slender lines on the disk: scutel yellowish at tip: wings hyaline: tergum fulvous; first segment black; remaining segments, excepting the terminal one, with a blackish middle and whitish transverse arquated line each side: feet, knees and posterior tibiae honey-yellow: venter yellowish, more dusky at tip.
Length about seven-twentieths of an inch.

Var. a. Tergum black, with transverse arquated lines; posterior margins of the segments yellow.

**Milesia. Fabr. Meig.**

*M. barda.* With yellow hair; tergum black, yellow at base.

Inhab. Indiana.

Body black: *hypostoma* with silvery hair and longitudinal, polished, naked line: *antennae* piceous: *front* covered by yellow hair: *thorax* densely covered by yellow hair, black in the middle: *scutel* piceous, covered by yellow hair: *wings* with a large fuscous spot on the middle, obsolete in the male: *poisers* piceous: *tergum* black, covered by black hair; basal segment and second segment at base covered by yellow hair: *feet* hairy; *tarsi* piceous: *posterior thighs* of the male much thickened and with their tibiae arquated.

Length three-fifths of an inch.

This I formerly considered as *Eristalis posticatus*, Fabr. but his attributed characters of "thorax immaculatus" and "femoribus posticis dentatis" seem to prove it distinct.

**Syrphus. Fabr. Meig.**

1. *S. stegnus.* Blackish-blue; tergum fasciate with glaucous.
Inhab. Mexico.

Body black-blue: hypostoma with dull cinereous irregular rugosities: antennæ, terminal joint beneath dull honey-yellow: wings hyaline, between the mediastinal and postcostal nervures yellowish: poisers yellow: tergum velvet black, opake, with polished glaucous bands, the first one interrupted; second and third occupying the basal half of the segments, the outer margin and the narrow tip, together with a longitudinal line; terminal segment entirely glaucous: tibiae honey-yellow: venter cupreous.

Length less than three-tenths of an inch.

\( 2. \) S. mutuus. Tergum yellow, with blackish bands and spots.

Inhab. Mexico.

Head beneath and behind plumbeous: posterior orbits dull yellowish: front and vertex brassy black: hypostoma prominent, yellow: antennæ, beneath honey-yellow: thorax olivaceous, with a blue vitta, and yellow one over the wings: scutel dull yellowish, paler at tip: tergum with five broad blackish-purple bands, concealing the incisures, and on the middle of the third and fourth segments are two small blackish spots; terminal band somewhat trilobate: feet yellow; posterior tarsi blackish: venter yellow, tinged at tip with ferruginous.

Length one-fourth of an inch.

Closely allied to S. marginatus, Nob. but the abdomen is much more elongated.
DIPTEROUS INSECTS.

3. *S. eetypus*. Segments of the tergum edged with yellow and with a lateral oblique line.

Inhab. Mexico.

Head yellow: proboscis black: vertex blackish: occiput black: posterior and inferior orbits gray: mouth, each side and beneath black: thorax green-gray, with an obsolete capillary line reflecting yellowish: scutel honey-yellow, darker on the middle base: poisers yellow: tergum black, edged all round with yellow; second segment with two yellow dots; third and fourth segments with their basal edges and dorsal line yellow, and on each side a wider line originating from the base, and curving a little towards the dorsal line, abbreviated; rounded at tip and tinged with rufous; fifth segment rufous with three black spots: pectus blue-black: feet white; posterior tarsi blackish.

Length less than one-fifth of an inch.


E. trifasciatus. Thorax grayish, trifasciate; tergum with a band; incisures yellow.

Inhab. Indiana.

Head white, on the vertex a little olivaceous; behind dark olive, with white orbits: antennae with the seta naked, and with a spot above on the front elevation of the hypostoma, and mouth each side honey-yellow: thorax gray-olive, with three equidistant blackish bands; middle band as broad as the
other two together; posterior band terminal: wings tinged with yellowish, particularly in the middle: scutel pale honey-yellow: tergum black; second segment with a broad honey-yellow band, interrupted in the middle, and with the third and fourth segments bright-yellow on the posterior margin: feet rufous, tibiae paler at base; posterior thighs blackish at base.

Length over half an inch.


Body blackish-violaceous: hypostoma dull honey-yellow, with small hairs reflecting whitish: thorax, each side, and scutel paler: wings blackish at base; this colour is confined to the basal cellules and the costal margin to the middle.

Length \( \frac{5}{6} \) thirteen-twentieths of an inch.

The eyes of the specimen are in contact on the vertex.

2. V. postica. Obscure violaceous; hypostoma whitish with a lateral black line. Inhab. Mexico.

Body blackish-violaceous: head whitish, tinged with obscure yellowish: antennæ fuscous: hypostoma with a black line each side: orbits behind and above silvery: thorax each side and before the scutel, dull honey-yellow: scutel honey-yellow: wings
hyaline, transverse nervures of the middle margined with blackish: tergum yellowish-violaceous, darker on the tips of the segments; third and fourth segments with a small white spot on each side at their bases: venter with a yellow disk: feet blackish: tibiae dirty honey-yellow.

Length half an inch. 3

Viewed from before, the posterior segments of the tergum have a hoary appearance, in consequence of having numerous short hairs of that colour. The eyes in the specimen are distant on the vertex.

3. V. marginata. Black, head white; tergum with black bands.

Inhab. Mexico.

Head white; vertex black; face with a black line extending to the tip of the hypostoma: hypostoma with a line each side, and all beneath black: orbits beneath white, behind glaucous: antennae dark honey-yellow, seta very densely plumose, appearing like a solid mass, black: thorax with a vitta on each side over the wings, and two spots at base, yellowish-white: wings with the middle cross nervures margined with dusky: tergum pale yellow with a black dorsal vitta, and black posterior margins to the segments: venter whitish, at tip black: feet black; tibiae at base white; tarsi at base tinged with rufous.

Length seven-twentieths of an inch, the other sex half an inch.

If it be true that the male, in this genus, is distin-
guished invariably by the contact of the eyes on the vertex, then the male of the present species is nearly double the size of the female, and the former has the more densely plumose antennæ; in this case also the male of the violacea, has the loosely plumose anten-
næ, and the female of the postica has the loosely plumous antennæ.

Psilopus. Meig.

This brilliant species varies in the colour of its thighs, which in my description are stated to be green; a specimen taken in Indiana has whitish thighs.

This species also occurs in Mexico.

Chrysotus. Meig.

Body blackish: head dull plumbeous: thorax ci-
ncreous, with three brown lines: wings immaculate: 
poisers white: feet dark honey-yellow; thighs black at base and above.
Length rather over one-tenth of an inch.

2. C. concinnarius. Green-brassy; tergum blue to-
wards the tip.
DIPTEROUS INSECTS.

Inhab. Mexico.

Head violaceous, with a cinereous reflection: palpi with a cinereous reflection: antennæ black: thorax green with a gray olivaceous reflection: wings hyaline, obsoletely tinged with yellowish on the costal margin: poisers white: tergum with a gray reflection, brassy-green at base, and violaceous towards the tip: thighs green: tibiae whitish.

Length one-fourth of an inch.

3. C. abdominalis. Green, polished; feet white.
Inhab. Indiana,


Length 3 one-tenth of an inch.

MEDETERUS. Fisch.

1. M. lateralis. Tergum pale, with a lateral series of polished spots.
Inhab. Indiana.

Head silvery: proboscis and antennæ yellowish, seta of the latter with the first joint very short: eyes (when recent) green polished, with a cupreous reflection: thorax green, somewhat pruinose, with a dorsal rather compound vitta: wings hyaline: poisers whitish: tergum dull yellowish, with a series of
brassy spots on each side, posterior two largest: *feet*
and *venter* whitish.
Length nearly three-twentieths of an inch.
The dorsal vitta is impressed behind.

2. *M. punctipennis.* Thorax variegated; wings with brown spots.
Inhab. Mexico.
*Thorax* olive-brown, trilineate; middle line slender, dull yellowish, obsoletely zigzag; outer lines cinereous with black points: *scutel* brown, cinereous in the middle: *wings* hyaline, with many irregular fuscous spots, hardly to be traced into four bands: *poisers* yellow: *tergum* cupreous, posterior margins of the segments blackish: *feet* white; *tarsi* blackish.
Length nearly one-fifth of an inch.

**Dolichopus.** *F. Meig.*

*D. abdominalis.* Green; abdomen rufous.
Inhab. Indiana.
*Head* silvery: *antenne,* first and second joints black, third —: *thorax* polished green: *wings* hyaline: *abdomen,* excepting the terminal joint, rufous: *halteres* white: *pleura* and *pectus* blackish, pruinose: *feet* white; *tarsi* dusky.
Length less than three-twentieths of an inch.

**Scenopinus.** *Latr. Fabr.*

*S. nubilipes.* Black; thorax submetallic; thighs black.
Inhab. Indiana.

Body black: head and thorax with numerous short hairs, giving it a granulated appearance, the latter with an obsolete rufous lateral tubercle near the humerus, disk slightly metallic: wings very slightly dusky: poises blackish: tergum transversely grooved: thighs black; tibiae dull honey-yellow; tarsi, particularly the posterior pair, whitish.

Length less than one-fifth of an inch.

Closely allied to S. pallipes, Nob., but may be distinguished by the colour of the feet.

**Conops. Fabr.**

*C. tibialis*. Black; two-thirds of the wing fuscous; tibiae white at base.

Inhab. Indiana.

Body black, with short hairs: head yellow: vertex black: front with a longitudinal black line, bifarious at the base of the antennae: hypostoma with an impressed saggitate spot: antennae black, terminal joint beneath obscurely rufous: proboscis black: mouth, each side and beneath, black: occiput black, with a white reflection: thorax black; humeral tubercle with a whitish reflection: scutel and metathorax black, the latter with a whitish reflection: wings two-thirds fuscous; central cross nervure very distinct: poises yellow, black at the base of the petiole: tergum, segments edged behind with whitish, or yellowish, on the basal suture the white band is com-
mon; near the tip with more or less of a whitish reflection: feet black; tibiae white at base, anterior and intermediate pairs near the tip with a silvery reflection.

Length from one half to three-fifths of an inch.

Resembles C. sagittaria, Nob. but differs in several characters.

**Phasia. Latr.**

1. *P. atripennis*. Black; abdomen and base of the thighs ferruginous.

Inhab. Indiana.

**Mouth and hypostoma** pale yellowish; **proboscis** black; **palpi** yellowish; **orbits** yellow, somewhat golden; **antennae** black, third joint hardly longer than the second, subovate; **front** with a much dilated velvet-black vitta; **thorax** black, with a dilated golden vitta each side before; **wings** black, opake, gradually paler on the thinner margin; apical cross nervure confluent with the externo-medial nervure before the tip; **poisers** and **scale** yellow; **feet** black; **thighs** at base, coxae and **abdomen** ferruginous.

Length three-tenths of an inch.

The wing nervures are like those of *P. semicinerea*, Meig.

2. *P. jugatoria*. Black, abdomen ferruginous; thorax with golden lines before.

Inhab. Indiana.
Dipterous Insects.

Front golden, with a dilated fuscous vitta: hyposoma whitish, with two black lines each side descending from the antennae: antennæ fuscous, first joint very short, third ovate, longer than the second: proboscis blackish: palpi yellow: thorax black, a transverse golden line before the middle, from which proceed five golden lines to the anterior margin, the lateral ones more dilated and anterior to the wings black, opaque; posterior margin abruptly hyaline; apical cross nervure rectilinear, confluent with the apex of the wing at the tip of the externo-medial nervure: poisers and wing scale pale ferruginous: abdomen pale ferruginous, black at tip: feet black; thighs at base, and coxae pale ferruginous; posterior tibiae deeply ciliated with dilated scale-like hairs.

Length three-tenths of an inch.

This cannot be the Thereva lanipes of Fabr. of which the thoracic lines are said to be white, and the abdomen black, immaculate; neither can it be the Thereva pilipes, Fabr. which is said by Wiedemann to be a Phania, for the antennæ of our species have not the third joint "elongated and linear" as in that genus. It seems also allied to Dictya pennipes, Fabr. which, however, has a large ferruginous spot on the wing.

Ocyptera. Fabr.

O. arcuata. Wings blackish on the costal margin; apical cross-nervure arquated at its origin.
Inhab. Indiana.

**Body** blackish: **hypostoma** yellowish-white; **orbits**; excepting behind and on the vertex, honey-yellow with a gray reflection: **front** with a dilated blackish vitta: **antennæ** with the base of the third joint obsoleteley honey-yellow beneath: **thorax** with yellow hair before the wings: **wings** hyaline; costal margin blackish; terminal cross-nervure not angulated at its origin: **halteres** yellowish: **wing-scales** white: **feet** black; base of the thighs and coxae yellowish: **tergum** pale yellowish; basal segment with the base and dorsal line black; second segment with a large black triangle; third segment with a gray reflection each side; remaining part black: **venter** pale yellowish, at tip black.

Length three-tenths of an inch.

This may readily be distinguished from other species, by the form of the apical cross-nervure.

**Miltogramma.** *Meig.*

**M. trifasciata.** Tergum black, fasciate with gray.

Inhab. Indiana.

Hyposoma and **posterior and inferior orbits** honey-yellow, with a silvery reflection: **antennæ** honey-yellow; **seta** with dense short hairs: **frontal vitta** of equal breadth: **thorax** gray, with many obsolete abbreviated blackish lines: **scutell** gray: **tergum** black; segments, except the basal, silver-gray
on the basal half: venter the same: feet black; thighs on the exterior side with a gray reflection: wings tinged with brownish.
Length less than half an inch.

Gonia. Meig.

G. frontosa. Front very prominent, abdominal segments whitish at base.
Inhab. Upper Missouri.

Body black, with rigid hairs: head pale yellowish-white, sericeous: front very prominent, gibbous: eyes placed very far back, oblong-oval, chestnut-brown: stemmata black: antennae blackish-cinereous; seta reclivate, robust, terminal joint longest: proboscis black: palpi pale: thorax immaculate: scutel pale brownish: wings dusky; nervures blackish-brown; costal margin, towards the base brownish: feet black: tergum each side near the base with a large, obsolete, reddish-brown spot; segments whitish at base.
Length nine-twentieths of an inch.

Occurred rather common at Engineer cantonment on the Missouri, late in March, on a wounded tree from which much sap had exuded.

Mesembrina. Meig.

M. pallida. Honey-yellowish; wing nervures margined.
Inhab. Indiana.
Body dull honey-yellowish: head pale yellow: front with a reddish-brown vitta: antennæ very short, hardly half as long as the hypostoma, terminal joint oval: nervures margined with brownish: pectus, pleura and feet paler.
Length two-fifths of an inch.

Cordylura. Fall.

C. qualis. Dark cinereous, hairy; thorax trilineate; head with a cinereous reflection.
Inhab. Indiana.

Body blackish-cinereous: head hemispheric, dark plumbeous, with a silvery reflection: eyes approximate above: antennæ blackish, rounded at tip; bristle short, two-jointed, thickened at base: palpi hairy, black, dilated at tip: proboscis rather long, slender, black: thorax obscurely trilineate with black, and with two less distinct oblique lines each side: wings slightly dusky: tergum very hairy, black, when viewed from behind with a gray reflection, except on the dorsal line and sutures: feet hairy, black.
Length $\frac{5}{6}$ one-fifth of an inch.

Dexia. Meig.

1. D. vertebrata. Abdomen conic, pale yellowish, with a dorsal black line and tip.
Inhab. Indiana.
Orbits, except behind, silvery: front fuscous:
**DIPTEROUS INSECTS.**

*hypostoma* pale livid, with a dark lateral line bounding the orbits: *antennae* yellowish, darker at base; *seta* blackish: *thorax* blackish: *tergum* yellowish-white with a black line, which is somewhat dilated at the tip of each segment; tip of each segment and tail black: *feet* black; *coxae* piceous.

Length half an inch.

Nervures of the wings arranged like those of *D. rustica*, Fabr.

2. *D. analis*. Abdomen yellow, blackish at tip.

Inhab. Indiana.

*Head* silvery; *front* tinged with dull yellowish: *antennae* yellowish, tip of the third joint black: *palpi* yellow: *proboscis* black, yellow at tip: *thorax* black, with a somewhat golden reflection; a dull yellow line each side, passing over the origin of the wings: *wings* hyaline, a little dusky, yellowish at base: *scutellum* yellow: *pectus* black, with a whitish band before: *feet* yellowish; *tarsi* black: *abdomen* pale yellow, tip fuscous.

Length seven-twentieths of an inch.

The proboscis and palpi are much elongated.

**SAPROMYZA. Fall.**

1. *S. connexa*. Pale honey-yellow; head whitish.

Inhab. Indiana.

*Head* whitish: *antennae* pale honey-yellow, terminal joint rounded: *eyes* greenish, somewhat gild-
ed: thorax and scutel honey-yellow: wings with a slight yellowish tinge: tergum paler than the thorax: feet white.

Length three-twentieths of an inch.

Closely resembles S. flava, Linn. of Europe, but is much larger. The S. flava is also an inhabitant of this country.

2. S. bipunctata. Yellowish; wing with spots and costal margin fuscous.

Inhab. Mexico.

Body pale honey-yellow: scutel with two black points on the posterior edge: wings hyaline; costal margin beyond the postcostal nervure, and extending in breadth a little over the subcostal nervure, fuscous; near its tip it extends into the wing so as to form a spot on the externo-medial nervure, this nervure and the interno-medial nervure have each a spot at tip: the two cross-nervures margined: tergum more dusky at tip, with an obsolete blackish dorsal line, and posterior margins of the segments.

Length one-fifth of an inch.