

## A LIST OF KANSAS HYMENOPTERA.

BY J. C. BRIDWELL, BALDWIN.

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This list is very far from complete, even in the present limited knowledge of the hymenopterous fauna of the state. I have been unable to secure lists of the Kansas hymenoptera in the collections of the State University, in the National Museum, and in the collections of the American Entomological Society. These would add many species to the list.

The list as it stands is based on the species in the collection of the Agricultural College—a list of which was very kindly furnished me by Prof. E. E. Faville—and those in my own collection in the museum of Baker University. To these were added a number of species from Cresson's "List of North American Hymenoptera"; from a "List of aculeate Hymenoptera collected in Northwestern Kansas," by Dr. S. W. Williston, published by W. H. Patton in the Bulletin of the United States Geological and Geographical Survey, volume 5, No. 3; and from a "List of Hymenoptera from Barber county, Kansas," by Professor Cragin. The species in this list marked A are in the Agricultural College collection; those marked B are in the Baker University collection and were collected in the vicinity of Baldwin. I owe great thanks to Mr. W. H. Ashmead, of Washington, and Prof. T. D. A. Cockerell, of the New Mexico Agricultural College, for determinations of species and other favors in my work.

TENTHREDINIDAE.			
Cimbex americana Leach.	A B	Macrophyia intermedia Nort.	A
var. laportei St. Farg.	A	maura Cress.	B
var. luctifera Klug.	A	pannosa Say.	A
Zarea americana Cress.	A	pulchella Klug.	B
Acordulecerus dorsalis Say.	A B	tibiator Nort.	B
Schizocera plumiges Klug.	A	Taxonus albipictus Nort.	B
Atomacera ruficollis Norton.	B	sp.	B
Hylotoma humeralis Beauv.	A B	Tenthredo rufospectus Nort.	B
Pteronus populi.	A	Tenthredopsis atroviolacea Nort.	A B
ventralis Say.	A	Monocetus juniperi Marlatt.	A
robiniae Forbes.	A	Macroxyela aenea Nort.	B
vertebralis.	A	ferruginea Say.	A
Pachynematus auratus.	A	tricolor Norton. Cress. List	
Amauronematus brunneus Nort.	A	UROCERIDAE.	
Harpiphorus boli Nort.	A	Tremex columba L.	A B
maculatus Nort.	A	var. sericeus Say.	A
Dolerus abdominalis Nort.	A	CYNIPIDAE.	
aprilis Nort.	B	Ibalia maculipennis Hald.	A
arvensis Say.	B	Rhodites bicolor Harris.	A
bicolor Beauv.	A B	rosae Lin.	A
Mesoneura obtusa Klug.	A	Diastrophus nebulosus O. S.	A
Monophadnus bardus Say.	A B	Amphibolips coccinea O. S.	A
rubi Harris.	A	confluens Harris.	A
Hoplocampa halcyon Nort.	A B	Acraspis pezomachoides O. S.	A
bridwelli Ashm. MS.	B	erinacei Walsh.	A
Macrophyia albomaculata Nort.	B	globuli.	A
externa Say.	B	volucellae.	A
fulginea Nort.	A	Biorhiza forticornis Walsh.	A

Biorhiza hirta Bass.	A	Pezomachus pettitii Cress.	B
Holaspis fuscigera Ashm.	A	sp.	A
globulus Fitch.	A	Ophion bilineatum Say.	A B
mamma Walsh.	A	Ericospelus purgatum Say.	B
Dryophanta laurifoliae Ashm.	A	Thyreodon morio Fab.	A
radicola Ashm.	B	Nototrichys jucundus Say.	A
Ceroptres minutissimum Ashm.	A	Exochilum flavicorne Brullé.	A
pisum O. S.	A	Anomalon ambiguum Nort.	B
Synergus dimorphus O. S.	A	curtum Nort.	A
lignicola O. S.	A	Agrypon metallicum Nort.	B
Encoilidia longicornis Ashm.	B	Opheltes glaucoptenis L.	A
Cothonaspis erythropus.	A	Paniscus albovariegatus Prov.	B
		geminatus Say.	A B
EVANICIDAE.		Compoplex sp.	A
Foenus sp.	A	Limneria fugitiva Say.	A
Hyptia reticulata Say.	A	Temelucha forbesii (Wied.) Ashm.	B
ICHNEUMONIDAE.		Cremartus retinæ Cress.	B
		sp.	A
Ichneumon brevicinctor Say.	A	Mesochorus sp.	A
caeruleus Cress.	A B	Plectiscus sp.	A
cincticornis Cress.	A	Porizon hyalinipennis Cress.	A
comes Cress.	B	Thesilochus sp.	A
fungor Nort.	B	Eiphosoma texana Cress.	A
inurbanus Cress.	B	Pristomerus sp.	A
jucundus Brullé.	A B	Exetastes sp.	A
laetus Brullé.	A	Ceratosoma sp.	A
longulus Cress.	A	Banchus sp.	A
merus Cress.	A	Mesoleptus sp.	A
orpheus Cress.	A	Mesoleius sp.	A
paratus Say.	A	Tryphon sp.	A
rubicundus Cress.	A B	Erromenus sp.	A
signatipes Cress.	A	Exochoides sp.	A
volens Cress.	A	Exochus sp.	A
w-album Cress.	B	Orthocentrus.	
Hoplismenus morulus Say.	B	Bassus lactatorius Fab.	B
Amblyteles atrocoeruleus Cress.	A	scutellaris Cress.	B
jejonus Cress.	B	sychophanta Walsh.	A
rileyi Cress.	A	Rhyssa atrata Fabr.	A B
Trogus exesorius Brullé.	A B	lunator Fabr.	A
Phaegones exiguum Cress.	A	nortoni Cress.	B
Centeterus tuberculifrons Prov.	A	Ephialtes irritator Fabr.	A
Colpognathus hebrus Cress.	B	Pimpla annulipes Brullé.	A B
Herpestomus plutellæ Ashm.	B	conquistor Say.	A
Phygadenon ovalis Prov.	B	petulca Cress.	B
sp.	A	rufovariata Cress.	A B
Cryptus americanus Cress.	A	Glypta vulgaris Cress.	A
extrematis Cress.	A	Lampronota sp.	A
proximus Cress.	A	Meniscus rufipes Cress.	B
similis Cress.		scutellaris Cress.	B
Nerostenus thoracicus Cress.	B	Zorniodes bridwelli Ashm. MS.	B
sp.	A	Labrocysta bimaculata Ashm.	B
Hemiletes sp.	A	Netacoelus laevis Cress.	B

	STEPHANIDÆ.		
Megischus sp.	A	Eubadizon sp.	A
	BRACONIDÆ.	Toxoneura viator Say.	B
Vipio texanus Cress.	B	sp.	A
Iphiaulax eurygaster Brullé.	B	Gymnoscelus sp.	A
Melanobracon charus Riley	B	Macrocentrus sp.	A
erythrogaster Brullé.	B	Zele sp.	A
orbitalis Cress.	B	Deospilus sp.	A
rugosiventris Ashm.	B	Promachus sp.	A
Bracon mellitor Say.	B	Opius brunneiventris Cress.	B
scrutator Say.	A	Alysia rudibunda Say.	B
xanthostigma Cress.	B	Adelura dimidiata.	A
vernoniae Ashm.	B	Rhizarcha americana Ashm.	B
nigrolineatus Ashm.	B	Coelinius meromyzae Forbes.	B
Glyptomorpha rugator Say.	B	Aphidius sp.	A
Spathius laflammei Prov.	B	Lithoplexus sp.	A
simillima Ashm.	B	Urogaster sp.	B
sp.	A		
Hecabolus sp.	A	CHALCIDIDÆ.	
Doryctes sp.	A	Leucospis affinis Say.	A
Hormiopterus fasciatus Ashm.		Eniasa texana Cress.	A
Marlatt, Manhattan (Ashm.)		Smicra bioculata Cress.	B
Rhogas atricornis Cress.	Cragin	lineata.	A
intermedius Cress.	B	Spilochalcis delira Cress.	A
parasiticus Nort.	B	microgaster Say.	A
rileyi Cress.	B	subobsoleta Cress.	A
terminalis Cress.	A B	torvina Cress.	A
Sigalpus lepturi Ashm.	B	Chalcis coloradensis Cress.	A
sp.	A	flavipes.	A
Chelonus basicinetus Prov.	A	Podagrion mantis Ashm.	A B
electus Cress.	B	Haltichella xanticles Walk.	A
insularis Cress.	A	Perilampus cyaneus Brullé.	A
iridescent Cress.	B	hyalinus Say.	A B
sericeus Say.	A B	platygaster Say.	A B
confusus Ashm.	B	triangularis Say.	B
Acogaster sp.	A	Eurytoma abnormicornis Walsh.	A
Apanteles sp.	A B	auriceps Walsh.	A B
Micropititis ceratomiae Ril.	Cres. List	bolteri Riley.	A B
sp.	A B	diastrophii Walsh.	A B
Agathis rubripes Cress.	B	gigantea Walsh.	B
sp.	A	seminatrix Walsh.	A B
Cremnops haematodes Brullé.		studiosa Say.	A
vulgaris Cress.		succinipedis Ashm.	A
Microdus agilis Cress.	B	dochasemi.	A
annulipes Cress.	A B	Bruchophagus funebris Howard.	B
earinoides Cress.	A	Rileya cecidomyiae.	A
sanctus Say.	A B	Decatoma nubilistigma Walsh.	A
simillimus Cress.	A	simplicistigma Walsh.	A
Meteorus communus Cress.	B	Isosoma hordei Harris.	A B
hyphantriae Riley.	A	charus.	A
vulgaris Cress.	A	secale Fitch.	B
		Megastigmus flavipes Ashm.	A
		psyllae.	A

Diamorus zabriskii Cress.	A	Holcopelte violacea.	A
Syntomaspis melanocerae Ashm.	B	poponoei.	A
albitarsis.	A	Pheurotropis tricincta.	A
Torymus cecidomyiae Walk.	A	Entedon cupricollis.	A
dedignaris.	A	lithocolletidis.	A
flaviventris.	A	Asecodes quercicola.	A
longispinus.	A	Hadrocystus rhodoboemi Ashm.	B
magnificus O. S.	A	Chrysocharis albitarsis Ashm.	B
sackenii Ashm.	B	oscinidis.	A
Orymus labotus Walk.	A	Tetrastichus californica.	A
rosae Ashm.	A	evonymellae.	A
ventricosus.	A	haemon Walker.	A
Eupelmus allynii French.	A	PROCTOTRYPIDAE.	
flavovariegatus.	A	Pristocera atra Klug.	A
Charitopus magnificus.	A	armifera Say.	A
Ratzeburgia amphicerivora.	A	Sierola sp.	A
Encyrtus anasae Ashm.	A	Epyris occidentalis Ashmead.	A
chiloneurus.	A	rufipes Say.	A
pachypsyliae Howard.	A	Mesitius vancouverensis Ashm.	A
Psilophrys pallipes.	A	nevadensis Ashm.	A
Copidosoma intermedium Howard.	A	minutus Ashm.	A
Comys bicolor Howard.	A	californicus Ashm.	B
Bococharis marlatti.	A	Goniozus cellularis Say.	A
Homalotylus apricalis.	A	foveolatus Ashm.	A
Coccophagus lecanii Fitch.	A	platynatae Ashm.	A
Aphelinus diaspidis Howard.	A	Gonatopus bicolor Ashm.	A
Tridymus metallicus.	A	Anteon rugosus Ashm.	A
Syntasis ficigerae.	A	poponoei Ashm.	A
purpuriventris.	A	Habropelte fuscipennis Ashm.	A
Isocratus vulgaris.	A	Megaspilus poponoei Ashm.	A
Merisus destructor Say.	A	Aphanogmus varipes Ashm.	A
Metapalenia spectabilis Walsh.	B	Phanurus ovivorus Ashm.	A
Sphegigaster caeruliventris.	A	Telenomus nigriscapus Ashm.	A
aeneiventris.	A	noctuae Ashm.	A
Cyrtogaster xanthopus.	A	californicus Ashm.	A
Pteromalus nigricornis Prov.	A	persimilis Ashm.	A
puparum L.	A B	graptae Howard.	A
bruchivorus.	A	ichthyurae Ashm.	A
Euplectrus hircinus.	A	bifidus Riley.	A
Cirrospilus flavicinctus Riley.	A	podisi Ashm.	A B
Elasmus albicoxa Howard.	A	Trissolcus euchisti Ashm.	A B
pullatus Howard.	A	Pentacantha canadensis Ashm.	
nollae.	A	Ashmead, Synopsis Proctotrypidae	
tischeriae Howard.	A	Prosacantha fuscipennis Ashm.	A
Sympiesis dolichogaster.	A	sericeus.	A
nigrifemora.	A	Hoplogyron sp.	A
nigripes.	A	Caloteleia marlatti Ashm.	
quercicola.	A	Ashmead, Synopsis Proctotrypidae	
chenopodii.	A	Macroteleia macrogaster Ashm.	A
Hippocephalus multilineatus.	A	n. sp.	A
Eulophus collaris.	A	Ophistacantha sp.	A
Lophocomus verticillatus.	A	Anteris nigriceps Ashm.	A

Idris laeviceps Ashm.	A	Myrmecina sp.	A
Scelio hyalinipennis Ashm.	A	Cremastogaster sp.	A
Amblyaspis occidentalis Ashm.	A		MUTILLIDÆ.
Leptacis longiventris Ashm.	A	Mutilla hexagona Say.	Cragin A
Trisachis rubicola Ashm.	B	ornativentris Cress.	A
Polygnotus solidaginis Ashm.	A	sayi Blake.	A
baccharicola Ashm.	A	scrupea Say.	A
Isocybus pallipes Say.	B	oajaca.	A
Proctotrypes pallidus Say.	A B	Sphaerophthalma asopus Cress.	A
caudatus Say.	A	aureola Cress. Crag.	
rufigaster Prov.	A	auripilis Blake.	A
quadriiceps Ashm.	A	balteola Blake.	A
Leptorhaptus conicus Ashm.	B	bioculata Cress.	A
Pantoclis megaplasta Ashm. Popenoe, Manhattan (Ashm. Syn. Proctotryp.)		californica Rad.	A
Diapria erythropus Ashm.	A	canadensis Blake.	A
virginica Ashm.	A	caneo Blake.	A
Trichopria sp.	A	castor Blake.	
Monoleta sp.	A	Cresson's List	
		contumax Cress.	A
		fenestrata St. Farg.	
		Cragin A B	
PELECINIDÆ.		ferrugata Fabr.	A B
Pelecinus polyurator Drury.	A B	fulvohirta Cress.	A
		hector Blake.	
		Cresson's List A	
CHRYSIDIDÆ.		luteola Blake.	
Omalus sp.	A	Cresson's List	
Notozus sp.	A	marpesia Blake.	
Holopyga ventralis Say.	A	Cresson's List	
Hedychridium dimidiatum Say.	A	monticola Cress.	A
Hedychrum violaceum Brullé.	A	mutata Blake.	A
Chrysis clara Cress.	A	occidentalis Linn.	
coerulans Fabr.	A	Cragin A B	
intricata Brullé.	A	propinqua Cress.	A
parvula Fabr.	A B	pygmaea Blake.	A
perpulchra Cress.	A	4-guttata Say.	
texana Gribodo.	B	Cragin A	
venusta Cress.	A	scaevola Blake.	A B
verticalis Patton.	A	simillima Smith.	
		Cragin A B	
FORMICIDÆ.		vesta Cress.	A
Camponotus herculaneus Lin.	A	Photopsis hyalina Blake.	A
v. pennsylvanica DeG. B		palida Blake.	A
Formica spp.	A B	tapajos Blake.	Cragin A
Lasius alienus Forst.	B	unicolor Cress.	Cragin
spp.	A B	Myrmosa unicolor Say.	A
Tapinoma sp.	A		SCOLIIDÆ.
PONERIDÆ.		Tiphia inornata Say.	Patt., Crag. A B
Ponera sp.		Paratiphia albilabris Spin.	Patton
Amblypone sp.		Myzine confluens Cress.	A
		interrupta Say.	Patton A
MYRMICIDÆ.		sexcincta Fab.	Patt., Crag. A B
Echiton sp. (Labidius).	A		
Pogonomyrmex occidentalis Cress.	A		
Myrmica sp.	A		
Monomorium sp.	A		
Pheidole sp.	A		

<i>Scolia bicincta</i> Fab.	A B	SPHECID.E.
<i>lecontei</i> Cress.	Patton	<i>Ammophila aberti</i> Hald. Patton
<i>Elis octomaculata</i> Say.	Patton	<i>intercepta</i> St. Farg.
<i>plumipes</i> Drury.	Cragin A	Patton, Cragin A B
<i>xantiana</i> Sauss.	A	<i>pictipennis</i> Walsh. A B
<i>atrata</i> .	A	<i>procera</i> Klug. Patton
<i>4-notata</i> Fabr.	B	<i>Pelopoeus cementarius</i> Drury.
		Cragin A B
		<i>Chalybion caeruleum</i> Lin. Crag. A B
<i>Sapyga</i> 2 spp.	B	<i>Chlorion caeruleum</i> Drury. Crag. A B
		<i>Isodontia philadelphica</i> St. Farg. A
		<i>Sphecodes ichneumonea</i> Lin.
		Patton, Cragin A B
		<i>pennsylvanicus</i> Lin. Cragin A
		<i>Harpactopus rufiventris</i> Cress.
		Patton, Cragin A
		<i>Priononyx atrata</i> St. Farg.
		Patton, Cragin A B
		LARRIDAE.
<i>Pompilus aethiops</i> Cress.	Cragin A B	<i>Astata bicolor</i> Say. A
<i>atrox</i> Dahlb.	Cragin A B	<i>unicolor</i> Say. A
<i>biguttatus</i> Fabr.	A	<i>Lysoda triloba</i> Say. A
<i>cylindricus</i> Cress.	A B	<i>Larra aethiops</i> Cress. Patton
<i>terrugineus</i> Say.	A	<i>argentea</i> Beauv. A B
<i>humilis</i> Cress.	A	<i>divisa</i> Patton. Patton
<i>hyacinthinus</i> Cress.	A	<i>quebecensis</i> Prov. B
<i>ichneumoniformis</i> Patton.	Patton	<i>Tachytes abdominalis</i> Say. A
<i>ingenuus</i> Cress.	A	<i>caelebs</i> Patton. Patton
<i>interruptus</i> Say.	A	<i>distinctus</i> Smith. A
<i>marginatus</i> Say.	A	<i>elongatus</i> Cress. A
<i>maurus</i> Cress.	B	<i>pepticus</i> Say. A
<i>philadelphicus</i> St. Farg.	A B	<i>rufofasciatus</i> Cress. A
<i>subviolaceus</i> Cress.	A	<i>texanus</i> Cress. Patton
<i>tenebrosus</i> Cress.	A	<i>validus</i> Cress. A
<i>tropicus</i> Lin.	Cragin A B	<i>minimus</i> . A
<i>willistoni</i> Patton.	Patton	BEMBECIDAE.
<i>Priocnemis conicus</i> Say.	A	<i>Sphecius speciosus</i> Drury. A B
<i>fulvicornis</i> Cress.	Cra. A B	<i>Megastizus brevipennis</i> Walsh.
<i>nigripes</i> Cress.	A	Cresson's List, Cragin A
<i>nothus</i> Cress.	A	<i>Stizus unicinctus</i> Say. Patton A
<i>terminatus</i> Say.	A	<i>Microbembex monodonta</i> Say. Patton
<i>unifasciatus</i> Say.	A	<i>Molendula emarginata</i> Cress. Patton A
<i>Agenia architecta</i> Say.	A	<i>speciosa</i> Cress. Patton
<i>calcarata</i> Cress.	A	<i>ventralis</i> Say. Patton A
<i>iridipennis</i> Cress.	A	<i>signata</i> . A
<i>mellipes</i> Say.	A	NYSSONIDAE.
<i>Planiceps concolor</i> Smith.	Patton	<i>Gorytes</i> sp. A B
<i>Aporus fasciatus</i> Smith.	A	<i>Hoplisus rufoluteus</i> Pack. A
<i>Ceropales bipunctata</i> Say.	A	<i>Euspongus bipunctatus</i> Say. A B
<i>brevicornis</i> Patton.	Patton	
<i>elegans</i> Cress.	Patton	
<i>fulvipes</i> Cress.	A	
<i>longipes</i> Smith.	A	
<i>nigripes</i> Cress.	A	
<i>texana</i> Cress.	Patton A	
<i>Pepsis formosa</i> Say.	Patt., Crag. A	
<i>marginata</i> Beauv.	B	

Alyson melleus Say.	A	Trypoxyton albopilosum Fox.	B
oppositus Say.	A	Crabro chrysarginus St. Farg.	B
Paranysson texanus Cress.	A	interruptus St. Farg.	A B
Nysson aurinotus Say.	A	nigrifrons Cress.	B
opulentus Garts.	A	6-maculatus Say.	B
PHILANTHIDAE.		stirpicola Pack.	A B
Philanthus albifrons Cress.	A	colon Cress.	B
gloriosus Cress.	A	Thyreopus sp.	A
inversus Patton.	Patton	Anacrabo ocellatus Pack.	A
punctatus Say.	A	Oxybelus emarginatus Say.	A B
scutellaris Cress.	A	4-notatus Say.	A
ventilabris Fabr.	A	EUMENIDAE.	
var. frontalis Cress.	A	Zethus sp.	B
Eucerceris canaliculatus Say.	Patton	Eumenes belfragei Cress.	Cragin A
laticeps Cress.	Patton	bolli Cress.	Patton A
rubripes Cress.	Cress. List	fraternus Say.	A
superbus Cress.	Patton	Monobia quadridens Lin.	A B
unicornis Patton.	Patton	Nortonia symmorphia Sauss.	A
zonatus Say.	A	Odynerus annulatus Say.	
Cerceris bicornuta Guer.	A	Patton, Cragin A B	
blakei Cress.	A	anormis Say.	A
clypeata Dahlb.	A	arvensis Sauss.	Cragin A B
compar Cress.	Cresson's List	cultus Cress.	B
deserta Say.	A	dorsalis Fab.	Cragin A B
finitima Cress.	A	evectionis Cress.	Cragin
fulvipes Cress.	Patton	foraminatus Sauss.	A
fumipennis Say.	B Greenwood Co.	hidalgicus Sauss.	Cragin
kennicottii Cress.	A	mohicanus Sauss.	B
occipitomaculata Pack.	Cresson's List	pedestris Sauss.	B
rufinoda Cress.	A	pennsylvanicus.	B
sexta Say.	Patton	saecularis Sauss.	B
venator Cress.	B Greenwood Co.	unifasciatus Sauss.	B
peckhami Ashm.	B Greenwood Co.	vagus Sauss.	Patton
MIMESIDAE.		venustus.	B
Mimesa tibialis Cress.	A	Pterochilus 5-fasciatus Say.	Pat., Cr. A
Psen sp.	A	VESPIDAE.	
PEMPHREDONIDAE.		Polistes annularis Lin.	B
Cemonus inornatus Say.	A B	aurifer Sauss.	Patton
Passaloecus annulatus Say.	A	bellicosus Cress.	B
Diodontus americanus Pack.	A	canadensis Lin.	B
CRABRONIDAE.		metricus Say.	A
Trypoxyton clavatum Say.	A B	rubiginosus St. Farg.	Cragin
excavatum Smith.	B	texanus Cress.	Cragin B
frigidum Smith.	A	variatus Cress.	Pat., Cr. A B
politum Say.	A B	Vespa germanica Fabr.	A
rubrocinctum Pack.	A B	maculata Lin.	A B
texense Sauss.	A	occidentalis Cress.	A
ANDRENIDÆ.		ANDRENIDÆ.	
Colletes albescens Cress.		Colletes albescens Cress.	A
armata Patton.		armata Patton.	Patton
ciliata Patton.		ciliata Patton.	Patton

<i>Colletes inaequalis</i> Say.	B	<i>Andrena claytoniae</i> Robt.	B
<i>Prosapis modestus</i> Say.		sayi Robt.	B
<i>pygmaea</i> Cress.	B	<i>Parandrena andrenoides</i> Robt.	B
<i>ziziae</i> Robt. ( <i>affinis</i> ).	A	<i>Protandrena cockerelli</i> Dunning.	B
sp. near <i>ziziae</i> Ckll.	B	(Described from a single male specimen taken in 1894 by the late J. E. Taylor, at Topeka.)	
<i>Sphecodes dichroa</i> Smith.	B	<i>Nomia nortoni</i> Cress.	
<i>ranunculi</i> Robt.	B	Cresson's List, Patton, Cragin A	B
<i>clematidis</i> Robt.	B	<i>Eunomia heteropoda</i> Say.	A
<i>mandibularis</i> Cress.	B	APIDAE.	
<i>Halictus confusus</i> Sm.	B	<i>Halictodes marginatus</i> Ckll.	A B
<i>coriaceus</i> Sm. (subquadra-	B	(Formerly <i>Panurgus</i> . This and <i>P.</i> <i>halictulus</i> Cress. are sexes of one species.	
<i>tus</i> Sm.)	B	—Cockerell.)	
<i>disparalis</i> Cr.	B	<i>Pseudopanurgus aethiops</i> Cress. Cragin	
<i>fasciatus</i> Nyl.	B	(Formerly <i>Calliopsis</i> .—Cockerell.)	
<i>flavipes</i> Fabr.	B	<i>Calliopsis andreniformis</i> Smith.	A B
<i>fulvipes</i> Smith.	B	<i>bridwelli</i> Cockerell n. sp.	B
<i>inconspicuus</i> Smith.	B	<i>coloradensis</i> Cress.	
<i>lerouxii</i> St. Farg.	B	Patton, Cragin	
<i>ligatus</i> Say.	B	<i>Perdita</i> sp.	A
var. <i>armaticeps</i> Cr.	B	<i>Nomada accepta</i> Cress. Cresson's List	
<i>parallelus</i> Say.	B	<i>bisignata</i> Say.	B
<i>pectoralis</i> Smith.	B	<i>gracilis</i> Cress.	A
<i>stultus</i> Cress.	B	<i>herligbrodtii</i> Cress.	A
<i>albibennis</i> Robt.	B	<i>incerta</i> Cress.	A
<i>forbesii</i> Robt.	B	<i>texana</i> Cress.	Patton
<i>californicus</i> Ashm. MS.	B	<i>Epeolus lectus</i> Cress. Cresson's List	
<i>missouriensis</i> Ashm. MS.	B	<i>occidentalis</i> Cress. Patton A	
<i>Augochlora humeralis</i> Patton. Pat.	B	<i>remigatus</i> Fab.	A
<i>viridula</i> Smith.	B	<i>bifasciatus</i> Cress.	A B
<i>lucidula</i> Smith.	Cragin	<i>Melecta interrupta</i> Cress. Cragin A	
<i>similis</i> Robt.	B	<i>Bombomelecta thoracica</i> Cress. Patton	
<i>confusa</i> Robt. ( <i>purus</i> ). A B		<i>Stelis lateralis</i> Cress.	B
<i>Agapostemon radiatus</i> Say.	A B	<i>Coelioxys deplanata</i> Cress.	A
<i>texanus</i> Cress.	B	<i>8-dentata</i> Say.	B
<i>tricolor</i> St. Fg.	Crag. A	<i>Osmia albiventris</i> Cress.	B
<i>viridula</i> Fab.	B	<i>lignaria</i> Say.	A
<i>Andrena bipunctata</i> Cress.	B	<i>simillima</i> Smith.	B
<i>pulchella</i> Robt.	B	<i>Heriades denticulatum</i> Cress.	B
<i>cragini</i> Ckll. n. sp.	B	<i>carinatum</i> Cress.	B
<i>kansensis</i> Ckll. n. sp.	B	<i>Alcidamea simplex</i> Ckll. ( <i>producta</i> ).	B
<i>bridwelli</i> Ckll. n. sp.	B	<i>Monumetha borealis</i> Cress.	A
<i>imitatrix</i> Cress.	B	<i>Anthidium concinnum</i> Cress.	A
<i>texana</i> Cress.	B	<i>interruptum</i> Say. Cr. List	
<i>vicina</i> Smith.	B	<i>maculifrons</i> Smith.	A
<i>rugosa</i> Robt.	B	<i>Lithurgus compressus</i> Smith.	A
<i>violae</i> Robt.	B	<i>Megachile brevis</i> Say.	A B
<i>laticeps</i> Prov.	B	<i>deflexa</i> Cress. Cress. List	
<i>forbesii</i> Robt.	B	<i>fortis</i> Cress. Cress. List A	
<i>erythrogaster</i> Ashm.	B	<i>latimanus</i> Say.	A
<i>mariae</i> Robt.	B	<i>montivaga</i> Cress.	A
<i>salicinella</i> Ckll.	B	<i>perbrevis</i> Cress.	A
<i>geranii</i> Robt.	B		

Megachile pruina Smith.	A	Anthophora abrupta Say.	A B
relativa Cress.	B	occidentalis Cress.	
Ceratina dupla Say.	A B	Cragin A	
tejonensis Cress.	B	smithii Cress. Cragin	
Melissodes afflita Cress.	A	walshii Cress. A	
agilis Cress.	A	Xylocopa virginica Drury.	A
atripes Cress.	Cragin	Centris lanosa Cress.	Cragin
bimaculata St. Farg.	A B	Apathus variabilis Cress.	A B
condigua Cress.	Cress. List	Bombus bimaculatus Cress.	A
confusa Cress.	A	dubius Cress. Cresson's List	
dapponsa Smith.	A	fervidus Fab. (Apathus	
menuacha Cress.	Cragin A	elatus Fab.) Cragin A	
obliqua Say.	A B	morrisoni Cress. A	
perplexa Cress.	B	pennsylvanicus DeG.	
rustica Say.	B	Patton, Cragin A B	
snowii Cress.	A	scutellaris Cress.	
Synhalonia frater Cress.	B	Patton, Cragin A B	
albata Cress.	Cragin	separatis Cress. A B	
Diadasia apacha Ckll.	B	virginicus Oliv. A B	
enavata Cress.	Cresson's List	Apis mellifica Linn.	A B
Eutechnia taurea Say.	B		