

## Supplement A.

A list of all identified bee specimens collected in Grand Staircase Escalante National Monument between 2000 and 2003. Bees are arranged by family, subfamily, genus, subgenus, and finally species. New species (n. sp.) are those that differ from all published keys and are unique after comparison with all specimens located at the U.S. National Pollinating Insects Laboratory (a collection of nearly 2 million specimens). They are listed with their closest affiliation. Species that do not match with specimen descriptions exactly, nor with known specimens, but are not entirely distinct may represent either variants or new species. We have conservatively listed these as 'sp.', rather than as new species, with the closest affiliation in parentheses.

Notes of biogeographical interest are in the last column, and are coded as follows: CP: Endemic to the Colorado Plateau; E: Easternmost occurrence of the bee; GB: Endemic to the Great Basin; GSENM: Found only in GSENM; MD: Previously recorded only in the Mojave Desert; NG: New genus for the state of Utah; N: Northernmost occurrence of the bee; NS: New species for the state of Utah; SD: Previously reported only in the Sonoran Desert; S: Southernmost occurrence of the bee; W: Westernmost occurrence of the bee.

\* *Agapostemon angelicus* and *A. texanus* females are impossible to distinguish. The number of specimens reported for each of these two species is for the males only, which can be identified.

## Bee Species in GSENM

**660 species, 55 genera, 49 new species**

**Andrenidae, 181 species, 7 genera, 22 new species**

### Andreninae

<i>Ancylandrena</i> , 1 species		
<i>Ancylandrena timberlakei</i> Zavortink, 1974	1	
<i>Andrena</i> , 71 species, 3 new species		
<i>Andrena (Andrena) frigida</i> Smith, 1853	7	
<i>Andrena (Andrena) macoupinensis</i> Robertson, 1900	26	
<i>Andrena (Andrena) milwaukeeensis</i> Graenicher, 1903	339	
<i>Andrena (Andrena) schuhi</i> LaBerge, 1980	289	
<i>Andrena (Belandrena) sphaeralceae</i> Linsley, 1939	14	
<i>Andrena (Callandrena) accepta</i> Viereck, 1916	6	
<i>Andrena (Callandrena) haynesi</i> Viereck and Cockerell, 1914	3	W
<i>Andrena (Callandrena) helianthi</i> Robertson, 1891	5	
<i>Andrena (Callandrena) neomexicana</i> LaBerge, 1967	10	CP
<i>Andrena (Callandrena) pecosana</i> Cockerell, 1913	14	
<i>Andrena (Callandrena) utahensis</i> LaBerge, 1967	112	
<i>Andrena (Callandrena) vulpicolor</i> Cockerell, 1897	25	
<i>Andrena (Callandrena) n. sp. 1</i>	25	
<i>Andrena (Callandrena) sp. 2 (aff. simulata)</i>	1	
<i>Andrena (Callandrena) sp. 1 (aff. pecosana)</i>	8	
<i>Andrena (Cnemidandrena) ramaleyi</i> Cockerell, 1931	107	
<i>Andrena (Cnemidandrena) costillensis</i> Viereck & Cockerell, 1914	66	
<i>Andrena (Cnemidandrena) sp. 3 (aff. aurihirta)</i>	91	
<i>Andrena (Cnemidandrena) sp. 4 (aff. colletina)</i>	63	
<i>Andrena (Cnemidandrena) n. sp. 2 (aff. costillensis)</i>	21	
<i>Andrena (Conandrena) cheyennorum</i> Viereck & Cockerell, 1914	84	
<i>Andrena (Dactylandrena) porterae</i> Cockerell, 1900	2	
<i>Andrena (Dasyandrena) cristata</i> Viereck, 1917	5	
<i>Andrena (Diandrena) evoluta</i> Linsley & MacSwain, 1961	334	
<i>Andrena (Euandrena) astragali</i> Viereck & Cockerell, 1914	18	S
<i>Andrena (Euandrena) chlorura</i> Cockerell, 1916	23	
<i>Andrena (Euandrena) lawrencei</i> Viereck & Cockerell, 1914	11	
<i>Andrena (Euandrena) nigrihirta</i> (Ashmead, 1890)	13	
<i>Andrena (Euandrena) sp. 5 (aff. auricoma)</i>	1	
<i>Andrena (Euandrena) sp. 6 (aff. nigrihirta)</i>	3	
<i>Andrena (Holandrena) cressonii infasciata</i> Lanham, 1949	48	
<i>Andrena (Leucandrena) barbilabris</i> (Kirby, 1802)	17	
<i>Andrena (Melandrena) cerasifolii</i> Cockerell, 1896	44	

<i>Andrena (Melandrena) lupinorum</i> Cockerell, 1906	1082	
<i>Andrena (Melandrena) sola</i> Viereck, 1917	7	
<i>Andrena (Melandrena) transnigra</i> Viereck, 1904	28	
<i>Andrena (Micrandrena) illinoiensis</i> Robertson, 1891	7	
<i>Andrena (Micrandrena) kristina</i> Lanham, 1983	21	NS, W
<i>Andrena (Micrandrena) melanochoa</i> Cockerell, 1898	2	S
<i>Andrena (Micrandrena) piperi</i> Viereck, 1904	51	
<i>Andrena (Onagrandrena) anograe knowltoni</i> Linsley and MacSwain, 1961	30	
<i>Andrena (Onagrandrena) linsleyana</i> Thorp, 1987	26	CP
<i>Andrena (Parandrena) andrenoides</i> (Cresson, 1878)	84	
<i>Andrena (Parandrena) papagorum</i> Viereck & Cockerell, 1914	3	
<i>Andrena (Parandrena) wellesleyana</i> Robertson, 1897	32	
<i>Andrena (Plastandrena) prunorum</i> Cockerell, 1896	534	
<i>Andrena (Rhaphandrena) prima</i> Casad, 1896	9	
<i>Andrena (Scaphandrena) bruneri</i> Viereck & Cockerell, 1914	82	
<i>Andrena (Scaphandrena) chapmanae</i> Viereck, 1904	31	
<i>Andrena (Scaphandrena) cruciferarum</i> Ribble, 1974	1	NS
<i>Andrena (Scaphandrena) hicksi</i> Cockerell, 1925	2	
<i>Andrena (Scaphandrena) kaibabensis</i> Ribble, 1974	47	CP
<i>Andrena (Scaphandrena) merriami</i> Cockerell, 1901	13	
<i>Andrena (Scaphandrena) montrosensis</i> Viereck and Cockerell, 1914	12	
<i>Andrena (Scaphandrena) nigricula</i> LaBerge & Bouseman, 1977	80	
<i>Andrena (Scaphandrena) scurra</i> Viereck, 1904	40	
<i>Andrena (Scaphandrena) sieverti</i> Cockerell, 1906	6	
<i>Andrena (Scaphandrena) n. sp. (aff. kaibabensis)</i>	16	
<i>Andrena (Scrapheropsis) imitatrix</i> Cresson, 1872	1	
<i>Andrena (Simandrena) angustitarsata</i> Viereck, 1904	13	
<i>Andrena (Thysandrena) medionitens</i> Cockerell, 1902	413	
<i>Andrena (Thysandrena) w-scripta</i> Viereck, 1904	178	
<i>Andrena (Thysandrena) sp. 7 (aff. medionitens)</i>	15	
<i>Andrena (Thysandrena) sp. 8 (aff. w-scripta)</i>	10	
<i>Andrena (Trachandrena) cupreotincta</i> Cockerell, 1901	418	
<i>Andrena (Trachandrena) forbesii</i> Robertson, 1891	1	
<i>Andrena (Trachandrena) salicifloris</i> Cockerell, 1897	1	S
<i>Andrena (Trachandrena) striatifrons</i> Cockerell, 1897	32	
<i>Andrena (Trachandrena) zionensis</i> LaBerge, 1973	234	W
<i>Andrena (Tylandrena) hallii</i> Dunning, 1898	32	
<i>Andrena (Tylandrena) subaustralis</i> Cockerell, 1898	52	

Panurginae

<i>Calliopsis</i> , 4 species		
<i>Calliopsis (Calliopsima) chlorops</i> Cockerell, 1899	116	
<i>Calliopsis (Calliopsima) philiphunteri</i> Shinn and Engel, 2003	32	
<i>Calliopsis (Nomadopsis) puellae</i> (Cockerell, 1933)	35	
<i>Calliopsis (Nomadopsis) timberlakei</i> (Rozen, 1958)	19	
<i>Macrotera</i> , 4 species, 1 new species		
<i>Macrotera (Macroterella) opacella</i> (Timberlake, 1956)	61	
<i>Macrotera (Macroteropsis) arcuata</i> (Fox, 1893)	1	
<i>Macrotera (Macroteropsis) latior</i> (Cockerell, 1896)	1	
<i>Macrotera (Macroteropsis) n. sp. (aff. portalis)</i>	3	
<i>Panurginus</i> , 2 species		
<i>Panurginus</i> sp. 1	1	
<i>Panurginus</i> sp. 2	6	
<i>Perdita</i> , 87 species, 16 new species		
<i>Perdita (Allomacrotera) moabensis</i> Timberlake, 1971	36	CP
<i>Perdita (Cockerellia) albipennis</i> Cresson, 1868	81	
<i>Perdita (Cockerellia) coreopsidis kansensis</i> Timberlake, 1953	1	
<i>Perdita (Cockerellia) imbellis</i> Timberlake, 1968	74	CP
<i>Perdita (Cockerellia) lingualis</i> Cockerell, 1896	3	S
<i>Perdita (Cockerellia) perpulchra</i> Cockerell, 1896	121	
<i>Perdita (Cockerellia) verbessinae</i> Cockerell, 1896	12	
<i>Perdita (Epimacrotera) crassula</i> Timberlake, 1958	2	
<i>Perdita (Glossoperdita) n. sp. 14 (aff. giliae)</i>	164	
<i>Perdita (Hexaperdita) asteris</i> Cockerell, 1896	81	
<i>Perdita (Hexaperdita) heterothecae</i> Cockerell, 1900	18	NS
<i>Perdita (Perdita) aridella</i> Timberlake, 1960	1095	
<i>Perdita (Perdita) calloleuca</i> Cockerell, 1922	5859	
<i>Perdita (Perdita) croceipes</i> Timberlake, 1960	11	N
<i>Perdita (Perdita) crotonis juabensis</i> Timberlake, 1962	1	
<i>Perdita (Perdita) depressa</i> Timberlake, 1968	133	
<i>Perdita (Perdita) dubia parilis</i> Timberlake, 1958	120	
<i>Perdita (Perdita) electa</i> Timberlake, 1960	67	
<i>Perdita (Perdita) euzonata</i> Timberlake, 1964	6	
<i>Perdita (Perdita) fallax</i> Cockerell, 1896	300	
<i>Perdita (Perdita) festiva</i> Timberlake, 1958	898	CP
<i>Perdita (Perdita) glabrescens</i> Timberlake, 1962	1	NS
<i>Perdita (Perdita) hirsuta</i> Cockerell, 1896	3	NS, MD
<i>Perdita (Perdita) holoxantha</i> Timberlake, 1962	11	CP
<i>Perdita (Perdita) idonea</i> Timberlake, 1968	56	
<i>Perdita (Perdita) knowltoni</i> Timberlake, 1960	268	CP

<i>Perdita (Perdita) labergei</i> Timberlake, 1960	54	
<i>Perdita (Perdita) lepidosparti</i> Timberlake, 1958	7	
<i>Perdita (Perdita) luteola</i> Cockerell, 1894	383	
<i>Perdita (Perdita) mesillensis</i> Timberlake, 1968	23	NS
<i>Perdita (Perdita) morula</i> Timberlake, 1980	200	
<i>Perdita (Perdita) munda</i> Timberlake, 1958	61	CP
<i>Perdita (Perdita) nasuta obscuresscens</i> Timberlake, 1962	55	
<i>Perdita (Perdita) nuda</i> Cockerell, 1896	199	
<i>Perdita (Perdita) phymatae</i> Cockerell, 1895	706	
<i>Perdita (Perdita) rectangulata</i> Cockerell, 1896	115	NS
<i>Perdita (Perdita) salicis imperialis</i> Cockerell, 1925	67	
<i>Perdita (Perdita) salicis salicis</i> Cockerell, 1896	97	
<i>Perdita (Perdita) salicis subtristis</i> Cockerell, 1933	128	
<i>Perdita (Perdita) similis</i> Timberlake, 1958	1533	
<i>Perdita (Perdita) subfasciata</i> Cockerell, 1897	2617	
<i>Perdita (Perdita) tortifoliae</i> Cockerell, 1906	350	
<i>Perdita (Perdita) vestita</i> Timberlake, 1958	263	CP
<i>Perdita (Perdita) wilmattae miriconis</i> Cockerell, 1922	18	GB
<i>Perdita (Perdita) xanthochroa</i> Timberlake, 1960	198	CP
<i>Perdita (Perdita) xerophila discrepans</i> Timberlake, 1962	64	E, MD
<i>Perdita (Perdita) zebrata flavens</i> Timberlake, 1958	2663	
<i>Perdita (Perdita) zebrata zebrata</i> Cresson, 1878	85	
<i>Perdita (Perdita) sp. 2 (aff. xanthochroa)</i>	7	
<i>Perdita (Perdita) sp. 3 (aff. varley)</i>	1	
<i>Perdita (Perdita) sp. 4 (aff. punctifera)</i>	5	
<i>Perdita (Perdita) sp. 5 (aff. munda)</i>	103	
<i>Perdita (Perdita) sp. 6 (aff. luteiventris)</i>	13	
<i>Perdita (Perdita) sp. 7 (aff. lateralis)</i>	33	
<i>Perdita (Perdita) sp. 8 (aff. koebelei)</i>	3	
<i>Perdita (Perdita) sp. 9 (aff. fuscipes)</i>	35	
<i>Perdita (Perdita) sp. 10 (aff. aridella)</i>	422	
<i>Perdita (Perdita) sp. 11 (aff. apacheorum)</i>	41	
<i>Perdita (Perdita) sp. E1</i>	171	
<i>Perdita (Perdita) sp. E4</i>	25	
<i>Perdita (Perdita) sp. E8</i>	1	
<i>Perdita (Perdita) n. sp. 1</i>	270	
<i>Perdita (Perdita) n. sp. 2 (aff. zebrata)</i>	166	
<i>Perdita (Perdita) n. sp. 3 (aff. tortifoliae)</i>	1	
<i>Perdita (Perdita) n. sp. 4 (aff. subfasciata)</i>	145	
<i>Perdita (Perdita) n. sp. 5 (aff. sphaeralceae)</i>	15	
<i>Perdita (Perdita) n. sp. 6 (aff. luteola)</i>	1	

<i>Perdita (Perdita)</i> n. sp. 7 (aff. <i>laticincta</i> )	6
<i>Perdita (Perdita)</i> n. sp. 8 (aff. <i>laticincta</i> )	2
<i>Perdita (Perdita)</i> n. sp. 9 (aff. <i>gerhardi</i> )	2
<i>Perdita (Perdita)</i> n. sp. 10 (aff. <i>eremica</i> )	192
<i>Perdita (Perdita)</i> n. sp. 11 (aff. <i>elongaticeps</i> )	1
<i>Perdita (Perdita)</i> n. sp. 12 (aff. <i>cuspidata</i> )	13
<i>Perdita (Perdita)</i> n. sp. 13 (aff. <i>confusa</i> )	157
<i>Perdita (Perdita)</i> n. sp. 14 (aff. <i>zonalis</i> )	12
<i>Perdita (Perdita)</i> n. sp. 15	103
<i>Perdita (Procockerellia) albonotata</i> Timberlake, 1954	26
<i>Perdita (Pygoperdita) duplonotata</i> Timberlake, 1956	527
<i>Perdita (Pygoperdita) fallugiaie</i> Timberlake, 1956	11
<i>Perdita (Pygoperdita) mormonica</i> Timberlake, 1956	3
<i>Perdita (Pygoperdita) sp. 1</i> (aff. <i>mohavensis</i> )	7
<i>Perdita (Xeromacrotera) cephalotes</i> (Cresson, 1878)	252
<i>Perdita</i> sp. E2	8
<i>Perdita</i> sp. E5	7
<i>Perdita</i> sp. E3	1
<i>Perdita</i> sp. E9	27
<i>Perdita</i> sp. E10	5
<i>Perdita</i> sp. E11	1
<i>Perdita</i> sp. E12	2
<i>Perdita</i> sp. E13	5
<i>Pseudopanurgus</i> , 12 species, 2 new species	
<i>Pseudopanurgus (Heterosarus) bakeri</i> (Cockerell, 1896)	1
<i>Pseudopanurgus (Heterosarus)</i> n. sp.	64
<i>Pseudopanurgus (Heterosarus)</i> sp. E1	6
<i>Pseudopanurgus (Heterosarus)</i> sp. E2	11
<i>Pseudopanurgus (Heterosarus)</i> sp. E3	62
<i>Pseudopanurgus (Pterosarus) irregularis</i> (Cockerell, 1922)	158
<i>Pseudopanurgus (Pterosarus)</i> sp. 1 (aff. <i>porterae</i> )	1
<i>Pseudopanurgus (Pterosarus)</i> sp. E1	36
<i>Pseudopanurgus (Pterosarus)</i> sp. E2	6
<i>Pseudopanurgus (Pterosarus)</i> sp. E3	36
<i>Pseudopanurgus (Pterosarus)</i> sp. E4	1
<i>Pseudopanurgus (Pterosarus)</i> n. sp. (aff. <i>irregularis</i> )	377

**Apidae, 158 species, 22 genera, 4 new species**

Apinae

*Anthophora*, 22 species, 3 new species

<i>Anthophora (Anthophoroides)</i> n. sp. 1	7
<i>Anthophora (Anthophoroides)</i> n. sp. 2	114

<i>Anthophora (Anthophoroides) pueblo</i> Orr, 2016	2	CP
<i>Anthophora (Heliophila) albata</i> Cresson, 1876	271	
<i>Anthophora (Lophanthophora) affabilis</i> Cresson, 1878	39	
<i>Anthophora (Lophanthophora) dammersi</i> Timberlake, 1937	26	
<i>Anthophora (Lophanthophora) neglecta</i> Timberlake and Cockerell, 1936	130	
<i>Anthophora (Lophanthophora) pacifica</i> Cresson, 1878	41	
<i>Anthophora (Lophanthophora) porterae</i> Cockerell, 1900	19	
<i>Anthophora (Lophanthophora) ursina</i> Cresson, 1869	26	
<i>Anthophora (Melea) bomboides</i> Kirby, 1838	57	
<i>Anthophora (Melea) occidentalis</i> Cresson, 1869	59	
<i>Anthophora (Micranthophora) albata</i> Cresson, 1876	2	
<i>Anthophora (Micranthophora) curta</i> Provancher, 1895	7	
<i>Anthophora (Micranthophora) escalante</i> Orr, 2017	4	CP
<i>Anthophora (Micranthophora) peritomae</i> Cockerell, 1905	390	
<i>Anthophora (Micranthophora) petrophila</i> Cockerell, 1905	747	
<i>Anthophora (Mystacanthophora) montana</i> Cresson, 1869	26	
<i>Anthophora (Mystacanthophora) urbana</i> Cresson, 1878	1326	
<i>Anthophora (Pyganthophora) edwardsii</i> Cresson, 1878	1	
<i>Anthophora (Pyganthophora) lesquerellae</i> (Cockerell, 1896)	81	
<i>Anthophora (Pyganthophora) n. sp.</i>	17	
<i>Anthophorula</i> , 2 species		
<i>Anthophorula (Anthophorula) albata</i> (Timberlake, 1947)	30	
<i>Anthophorula (Anthophorula) crenulata</i> (Timberlake, 1980)	38	
<i>Apis</i> , 1 species		
<i>Apis mellifera</i> Linnaeus, 1758	2474	
<i>Bombus</i> , 6 species		
<i>Bombus (Bombias) nevadensis</i> Cresson, 1874	11	
<i>Bombus (Bombus) occidentalis</i> Greene, 1858	6	
<i>Bombus (Thoracobombus) fervidus</i> (Fabricius, 1798)	27	
<i>Bombus (Pyrobombus) huntii</i> Greene, 1860	183	
<i>Bombus (Pyrobombus) melanopygus</i> Nylander, 1848	49	
<i>Bombus (Cullumanobombus) morrisoni</i> Cresson, 1878	492	
<i>Diadasia</i> , 8 species		
<i>Diadasia australis</i> (Cresson, 1878)	166	
<i>Diadasia diminuta</i> (Cresson, 1878)	599	
<i>Diadasia enavata</i> (Cresson, 1872)	52	
<i>Diadasia lutzi</i> Cockerell, 1924	135	
<i>Diadasia martialis</i> Timberlake, 1940	10	NS
<i>Diadasia ochracea</i> (Cockerell, 1903)	16	
<i>Diadasia rinconis</i> Cockerell, 1897	11	

<i>Diadasia vallicola</i> Timberlake, 1940	1	N
<i>Eucera</i> , 11 species		
<i>Eucera (Synhalonia) acerba</i> (Cresson, 1879)	8	
<i>Eucera (Synhalonia) edwardsii</i> (Cresson, 1878)	4	
<i>Eucera (Synhalonia) frater</i> (Cresson, 1878)	128	S
<i>Eucera (Synhalonia) fulvitaris</i> (Cresson, 1878)	160	
<i>Eucera (Synhalonia) lunata</i> (Timberlake, 1969)	6	N, MD
<i>Eucera (Synhalonia) mohavensis</i> (Timberlake, 1969)	44	
<i>Eucera (Synhalonia) phaceliae</i> (Cockerell, 1911)	71	
<i>Eucera (Synhalonia) primaveris</i> (Timberlake, 1969)	34	
<i>Eucera (Synhalonia) quadricincta</i> (Timberlake, 1969)	6	
<i>Eucera (Synhalonia) speciosa</i> (Cresson, 1878)	8	
<i>Eucera (Synhalonia) territella</i> (Cockerell, 1905)	87	
<i>Exomalopsis</i> , 1 species		
<i>Exomalopsis (Phanomalopsis) solidaginis</i> Cockerell, 1898	244	
<i>Habropoda</i> , 3 species		
<i>Habropoda cineraria</i> (Smith, 1879)	77	
<i>Habropoda excellens</i> (Timberlake, 1962)	73	
<i>Habropoda morrisoni</i> (Cresson, 1878)	236	
<i>Melissodes</i> , 27 species		
<i>Melissodes (Callimelissodes) coloradensis</i> Cresson, 1878	2	
<i>Melissodes (Callimelissodes) compositus</i> Tucker, 1909	1	
<i>Melissodes (Callimelissodes) glenwoodensis</i> Cockerell, 1905	172	
<i>Melissodes (Eumelissodes) agilis</i> Cresson, 1878	93	
<i>Melissodes (Eumelissodes) bicoloratus</i> LaBerge, 1961	38	
<i>Melissodes (Eumelissodes) bimatrix</i> LaBerge, 1961	378	
<i>Melissodes (Eumelissodes) brevipyga</i> LaBerge, 1961	2	
<i>Melissodes (Eumelissodes) grindeliae</i> Cockerell, 1898	171	
<i>Melissodes (Eumelissodes) illatus</i> Lovell and Cockerell, 1906	1	
<i>Melissodes (Eumelissodes) lutulentus</i> LaBerge, 1961	79	
<i>Melissodes (Eumelissodes) menuachus</i> Cresson, 1868	17	
<i>Melissodes (Eumelissodes) montanus</i> Cresson, 1878	9	
<i>Melissodes (Eumelissodes) pallidisignatus</i> Cockerell, 1905	105	
<i>Melissodes (Eumelissodes) perlusus</i> Cockerell, 1925	48	
<i>Melissodes (Eumelissodes) perpolitus</i> LaBerge, 1961	63	
<i>Melissodes (Eumelissodes) rustica</i> (Kirby, 1802)	357	
<i>Melissodes (Eumelissodes) saponellus</i> Cockerell, 1908	28	
<i>Melissodes (Eumelissodes) semilupinus</i> Cockerell, 1905	133	
<i>Melissodes (Eumelissodes) snowii</i> Cresson, 1878	9	
<i>Melissodes (Eumelissodes) subagilis</i> Cockerell, 1905	4	
<i>Melissodes (Eumelissodes) submenuacha</i> Cockerell 1897	4	



<i>Melissodes (Eumelissodes) tristis</i> Cockerell, 1894	495	
<i>Melissodes (Eumelissodes) utahensis</i> LaBerge, 1961	122	
<i>Melissodes (Eumelissodes) verbosinarum</i> Cockerell, 1905	45	
<i>Melissodes (Tachymelissodes) dagosus</i> Cockerell, 1909	5	
<i>Melissodes</i> sp. E1	6	
<i>Melissodes</i> sp. M1	43	
<i>Svastra</i> , 2 species		
<i>Svastra (Epimelissodes) helianthelli</i> (Cockerell, 1905)	6	
<i>Svastra (Epimelissodes) obliqua expurgata</i> (Cockerell, 1925)	7	
<i>Zacosmia</i> , 1 species		
<i>Zacosmia maculata</i> (Cresson, 1879)	27	
<i>Melecta</i> , 5 species		
<i>Melecta (Melecta) alexanderi</i> Griswold and Parker, 1999	1	
<i>Melecta (Melecta) bohartorum</i> Linsley, 1939	2	
<i>Melecta (Melecta) pacifica</i> Cresson, 1878	3	
<i>Melecta (Melecta) separata separata</i> Cresson, 1879	4	
<i>Melecta (Melecta) thoracica</i> Cresson, 1875	73	
<i>Xeromelecta</i> , 1 species		
<i>Xeromelecta (Melectomorpha) californica</i> (Cresson, 1878)	29	
Nomadinae		
<i>Epeolus</i> , 5 species		
<i>Epeolus mesillae mesillae</i> (Cockerell, 1895)	6	
<i>Epeolus minimus</i> (Robertson, 1902)	56	
<i>Epeolus pusillus</i> Cresson, 1864	37	
<i>Epeolus scutellaris</i> Say, 1824	4	
<i>Epeolus</i> sp. 3	1	
<i>Hexepeolus</i> , 1 species		NG, MD
<i>Hexepeolus rhodogyne</i> Linsley and Michener, 1937	1	
<i>Holcopasites</i> , 1 species		
<i>Holcopasites pulchellus</i> (Cresson, 1878)	8	
<i>Neolarra</i> , 5 species		
<i>Neolarra (Neolarra) penicula</i> Shanks, 1978	6	
<i>Neolarra (Neolarra)</i> sp. 1	22	
<i>Neolarra (Neolarra) verbosinae</i> (Cockerell, 1895)	7	
<i>Neolarra (Phileremulus) cockerelli</i> (Crawford, 1916)	11	
<i>Neolarra (Phileremulus) vigilans</i> (Cockerell, 1895)	8	
<i>Nomada</i> , 34 species, 1 new species		
<i>Nomada (Centrias) crotchii</i> Cresson, 1878	18	
<i>Nomada (Centrias) munda</i> Cresson, 1878	2	
<i>Nomada (Centrias)</i> sp. E1	13	

<i>Nomada (Centrias)</i> sp. E2	8	
<i>Nomada (Holonomada) edwardsii</i> Cresson, 1878	39	
<i>Nomada (Holonomada) parkeri</i> Evans, 1972	9	
<i>Nomada (Laminomada)</i> n. sp.	3	
<i>Nomada (Micronomada)</i> sp. E1	4	
<i>Nomada (Micronomada)</i> sp. E2	4	
<i>Nomada (Micronomada)</i> sp. E3	1	
<i>Nomada (Micronomada)</i> sp. E4	5	
<i>Nomada (Nomada)</i> sp. E1	161	
<i>Nomada (Nomada)</i> sp. E2	17	
<i>Nomada (Nomada)</i> sp. E3	118	
<i>Nomada (Nomada)</i> sp. E4	153	
<i>Nomada (Nomada)</i> sp. E5	13	
<i>Nomada (Nomada)</i> sp. E6	4	
<i>Nomada (Nomada)</i> sp. E7	23	
<i>Nomada (Nomada)</i> sp. E8	40	
<i>Nomada (Nomada)</i> sp. E10	2	
<i>Nomada (Nomada)</i> sp. E11	28	
<i>Nomada (Nomada)</i> sp. E12	8	
<i>Nomada (Nomada)</i> sp. E13	1	
<i>Nomada (Nomada)</i> sp. E14	7	
<i>Nomada (Nomada)</i> sp. E15	18	
<i>Nomada (Nomada)</i> sp. E16	14	
<i>Nomada (Nomada)</i> sp. E17	4	
<i>Nomada (Nomada)</i> sp. E18	26	
<i>Nomada (Nomada)</i> sp. E19	3	
<i>Nomada (Nomada)</i> sp. E20	1	
<i>Nomada (Nomada)</i> sp. E22	11	
<i>Nomada (Nomada)</i> sp. E23	4	
<i>Nomada (Nomada)</i> sp. E25	1	
<i>Nomada (Nomadita) mutans</i> Cockerell, 1910	5	
<i>Oreopasites</i> , 1 species		
<i>Oreopasites</i> sp.	1	
<i>Paranomada</i> , 1 species		
<i>Paranomada</i> sp. 1 (aff. <i>nitida</i> )	1	NG, SD
<i>Triepeolus</i> , 14 species		
<i>Triepeolus balteatus</i> Cockerell, 1921	26	S
<i>Triepeolus dacotensis</i> (Stevens, 1919)	3	
<i>Triepeolus denverensis</i> Cockerell, 1910	4	
<i>Triepeolus diversipes</i> Cockerell, 1924	3	
<i>Triepeolus eldoradensis</i> (Cockerell, 1910)	16	

<i>Triepeolus helianthi</i> (Robertson, 1897)	4	
<i>Triepeolus micropygius</i> Robertson, 1903	2	
<i>Triepeolus norae</i> Cockerell, 1907	1	
<i>Triepeolus subalpinus</i> Cockerell, 1910	21	
<i>Triepeolus timberlakei</i> Cockerell, 1929	34	
<i>Triepeolus</i> sp. 42	6	
<i>Triepeolus</i> sp. 51	1	
<i>Triepeolus</i> sp. 69	5	
<i>Triepeolus</i> sp. 76	1	
<b>Xylocopinae</b>		
<i>Ceratina</i> , 4 species		
<i>Ceratina (Zadontomerus) apacheorum</i> Daly, 1973	265	
<i>Ceratina (Zadontomerus) nanula</i> Cockerell, 1897	5188	
<i>Ceratina (Zadontomerus) neomexicana</i> Cockerell, 1901	608	
<i>Ceratina (Zadontomerus) pacifica</i> H. S. Smith, 1907	678	
<i>Xylocopa</i> , 2 species		
<i>Xylocopa (Xylocopoides) californica</i> Cresson, 1864	199	
<i>Xylocopa (Notoxylocopa) tabaniformis androleuca</i> Michener, 1940	27	
<b>Colletidae, 34 species, 2 genera, 6 new species</b>		
<b>Colletinae</b>		
<i>Colletes</i> , 22 species, 3 new species		
<i>Colletes compactus</i> Cresson, 1868	43	
<i>Colletes daleae</i> Cockerell, 1897	687	
<i>Colletes eulophi</i> Robertson, 1891	70	
<i>Colletes fulgidus fulgidus</i> Swenk, 1904	1	
<i>Colletes gypsicolens</i> Cockerell, 1897	416	
<i>Colletes intermixtus</i> Swenk, 1905	2	
<i>Colletes kincaidii</i> Cockerell, 1898	1	
<i>Colletes larreae</i> Timberlake, 1951	73	
<i>Colletes laticinctus</i> Timberlake, 1951	33	
<i>Colletes louisae</i> Cockerell, 1897	265	
<i>Colletes lutzi lutzi</i> Timberlake, 1943	6	
<i>Colletes mandibularis</i> Smith, 1853	9	
<i>Colletes petalostemonis</i> Swenk, 1906	178	W
<i>Colletes phaceliae</i> Cockerell, 1906	1359	
<i>Colletes simulans nevadensis</i> Swenk, 1908	96	
<i>Colletes slevini</i> Cockerell, 1925	503	
<i>Colletes sphaeralceae</i> Timberlake, 1951	316	
<i>Colletes</i> sp. 1	57	
<i>Colletes</i> sp. 2 (aff. <i>petalostemonis</i> )	32	

	<i>Colletes</i> n. sp. 1 (aff. <i>algarobiae</i> )	2
	<i>Colletes</i> n. sp. 2 (aff. <i>aberrans</i> )	6
	<i>Colletes</i> n. sp. 3	4
Hylaeinae		
	<i>Hylaeus</i> , 12 species, 3 new species	
	<i>Hylaeus</i> ( <i>Hylaeus</i> ) <i>leptocephalus</i> (Morawitz, 1871)	16
	<i>Hylaeus</i> ( <i>Hylaeus</i> ) <i>granulatus</i> (Metz, 1911)	6
	<i>Hylaeus</i> ( <i>Hylaeus</i> ) <i>mesillae cressoni</i> (Cockerell, 1907)	605
	<i>Hylaeus</i> ( <i>Hylaeus</i> ) <i>rudbeckiae</i> (Cockerell and Casad, 1895)	2
	<i>Hylaeus</i> ( <i>Hylaeus</i> ) <i>verticalis</i> (Cresson, 1869)	1
	<i>Hylaeus</i> ( <i>Hylaeus</i> ) sp. 1 (aff. <i>mesillae</i> )	195
	<i>Hylaeus</i> ( <i>Paraprosopis</i> ) <i>coloradensis</i> (Cockerell, 1896)	2
	<i>Hylaeus</i> ( <i>Paraprosopis</i> ) <i>megalotis</i> (Swenk and Cockerell, 1910)	929
	<i>Hylaeus</i> ( <i>Paraprosopis</i> ) <i>wootoni</i> (Cockerell, 1896)	494
	<i>Hylaeus</i> ( <i>Paraprosopis</i> ) n. sp. 1 (aff. <i>cookii</i> )	1228
	<i>Hylaeus</i> ( <i>Paraprosopis</i> ) n. sp. 2	129
	<i>Hylaeus</i> ( <i>Prosopis</i> ) n. sp. 3	1010
<b>Halictidae, 114 species, 7 genera, 2 new species</b>		
Halictinae		
	<i>Agapostemon</i> , 5 species, 1 new species	
	<i>Agapostemon</i> ( <i>Agapostemon</i> ) <i>angelicus</i> Cockerell, 1924	231*
	<i>Agapostemon</i> ( <i>Agapostemon</i> ) <i>texanus</i> Cresson, 1872	185*
	<i>Agapostemon</i> ( <i>Agapostemon</i> ) <i>femoratus</i> Crawford, 1901	2
	<i>Agapostemon</i> ( <i>Agapostemon</i> ) <i>melliventris</i> Cresson, 1874	15
	<i>Agapostemon</i> ( <i>Agapostemon</i> ) n. sp. (aff. <i>splendens</i> )	7
	<i>Halictus</i> , 5 species	
	<i>Halictus</i> ( <i>Nealictus</i> ) <i>farinosus</i> Smith, 1853	170
	<i>Halictus</i> ( <i>Odontalictus</i> ) <i>ligatus</i> Say, 1837	33
	<i>Halictus</i> ( <i>Protohalictus</i> ) <i>rubicundus</i> (Christ, 1791)	12
	<i>Halictus</i> ( <i>Seladonia</i> ) <i>confusus</i> Smith, 1853	8
	<i>Halictus</i> ( <i>Seladonia</i> ) <i>tripartitus</i> Cockerell, 1895	3676
	<i>Lasioglossum</i> , 76 species	
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>abundipunctum</i> Gibbs, 2010	208
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>albohirtum</i> (Crawford, 1907)	581
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>aliud</i> (Sandhouse, 1924)	28
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>brunneiventre</i> (Crawford, 1907)	7
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>clarissimum</i> (Ellis, 1914)	9
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>clematisellum</i> (Cockerell, 1904)	557
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>griswoldi</i> Gibbs, 2009	1
	<i>Lasioglossum</i> ( <i>Dialictus</i> ) <i>hudsoniellum</i> (Cockerell, 1919)	86

<i>Lasioglossum (Dialictus) hyalinum</i> (Crawford, 1907)	124
<i>Lasioglossum (Dialictus) impavidum</i> (Sandhouse, 1924)	161
<i>Lasioglossum (Dialictus) incompletum</i> (Crawford, 1907)	1
<i>Lasioglossum (Dialictus) microlepoides</i> (Ellis, 1914)	8
<i>Lasioglossum (Dialictus) nevadense</i> (Crawford, 1907)	892
<i>Lasioglossum (Dialictus) pallidellum</i> (Ellis, 1914)	22
<i>Lasioglossum (Dialictus) perdifficile</i> (Cockerell, 1895)	111
<i>Lasioglossum (Dialictus) perparvum</i> (Ellis, 1914)	5
<i>Lasioglossum (Dialictus) petrellum</i> (Cockerell, 1903)	45
<i>Lasioglossum (Dialictus) prasinogaster</i> Gibbs, 2010	9
<i>Lasioglossum (Dialictus) pruinosum</i> (Robertson, 1892)	143
<i>Lasioglossum (Dialictus) ruidosense</i> (Cockerell, 1897)	275
<i>Lasioglossum (Dialictus) sedi</i> (Sandhouse, 1924)	1
<i>Lasioglossum (Dialictus) semibrunneum</i> (Cockerell, 1895)	10
<i>Lasioglossum (Dialictus) semicaeruleum</i> (Cockerell, 1895)	146
<i>Lasioglossum (Dialictus) tegulare</i> (Robertson, 1890)	88
<i>Lasioglossum (Dialictus) tegulariforme</i> (Crawford, 1907)	41
<i>Lasioglossum (Dialictus) sp. 1</i> (aff. <i>albuquerqueense</i> )	164
<i>Lasioglossum (Dialictus) sp. 2</i> (aff. <i>aliud</i> )	29
<i>Lasioglossum (Dialictus) sp. 3</i> (aff. <i>hudsoniellum</i> )	14
<i>Lasioglossum (Dialictus) sp. 4</i> (aff. <i>hyalinum</i> )	21
<i>Lasioglossum (Dialictus) sp. 5</i> (aff. <i>impavidum</i> )	86
<i>Lasioglossum (Dialictus) sp. 6</i> (aff. <i>pacatum</i> )	3
<i>Lasioglossum (Dialictus) sp. 7</i> (aff. <i>hunteri</i> )	13
<i>Lasioglossum (Dialictus) sp. 8</i> (aff. <i>nevadense</i> )	27
<i>Lasioglossum (Dialictus) sp. 9</i> (aff. <i>pruinosum</i> )	2
<i>Lasioglossum (Dialictus) sp. A</i>	57
<i>Lasioglossum (Dialictus) sp. E1</i>	57
<i>Lasioglossum (Dialictus) sp. E2</i>	34
<i>Lasioglossum (Dialictus) sp. E3</i>	3
<i>Lasioglossum (Dialictus) sp. E5</i>	7
<i>Lasioglossum (Dialictus) sp. E6</i>	52
<i>Lasioglossum (Dialictus) sp. E7</i>	11
<i>Lasioglossum (Dialictus) sp. E8</i>	7
<i>Lasioglossum (Dialictus) sp. E9</i>	59
<i>Lasioglossum (Dialictus) sp. E10</i>	4
<i>Lasioglossum (Dialictus) sp. E11</i>	38
<i>Lasioglossum (Dialictus) sp. E12</i>	1
<i>Lasioglossum (Dialictus) sp. E14</i>	1
<i>Lasioglossum (Dialictus) sp. E16</i>	5
<i>Lasioglossum (Dialictus) sp. E18</i>	4

<i>Lasioglossum (Dialictus) sp. E19</i>	14
<i>Lasioglossum (Dialictus) sp. E22</i>	158
<i>Lasioglossum (Dialictus) sp. E23</i>	51
<i>Lasioglossum (Dialictus) sp. E24</i>	52
<i>Lasioglossum (Dialictus) sp. M2</i>	5
<i>Lasioglossum (Dialictus) sp. M3</i>	5
<i>Lasioglossum (Dialictus) sp. M11</i>	4
<i>Lasioglossum (Dialictus) sp. M15</i>	16
<i>Lasioglossum (Dialictus) sp. M17</i>	52
<i>Lasioglossum (Evyllaesus) sp. E1</i>	52
<i>Lasioglossum (Evyllaesus) sp. E2</i>	180
<i>Lasioglossum (Evyllaesus) sp. E3 (aff. nigrescens)</i>	1
<i>Lasioglossum (Evyllaesus) sp. E5</i>	10
<i>Lasioglossum (Evyllaesus) sp. E7</i>	14
<i>Lasioglossum (Hemihalictus s.l.) inconditum</i> (Cockerell, 1916)	285
<i>Lasioglossum (Hemihalictus s.l.) ovaliceps</i> (Cockerell, 1898)	112
<i>Lasioglossum (Hemihalictus s.l.) pectoraloides</i> (Cockerell, 1895)	4
<i>Lasioglossum (Hemihalictus s.l.) pulveris</i> (Cockerell, 1930)	395
<i>Lasioglossum (Hemihalictus s.l.) swenki</i> (Crawford, 1906)	21
<i>Lasioglossum (Lasioglossum) egregium</i> (Vachal, 1904)	179
<i>Lasioglossum (Lasioglossum) heterorhinum</i> (Cockerell, 1930)	12
<i>Lasioglossum (Lasioglossum) lampronotum</i> (Cameron, 1905)	70
<i>Lasioglossum (Lasioglossum) sisymbrii</i> (Cockerell, 1895)	368
<i>Lasioglossum (Sphecodogastra s.l.) cooleyi</i> (Crawford, 1906)	2
<i>Lasioglossum (Sphecodogastra) lusorium</i> (Cresson, 1872)	49
<i>Lasioglossum (Sphecodogastra s.l.) nigrescens</i> (Crawford, 1907)	14
<i>Lasioglossum (Sphecodogastra) noctivaga</i> Linsley and MacSwain, 1962	11
<i>Sphecodes</i> , 18 species	
<i>Sphecodes sp. E1</i>	11
<i>Sphecodes sp. E2</i>	323
<i>Sphecodes sp. E3</i>	54
<i>Sphecodes sp. E4</i>	2
<i>Sphecodes sp. E5</i>	5
<i>Sphecodes sp. E6</i>	5
<i>Sphecodes sp. E7</i>	52
<i>Sphecodes sp. E8</i>	178
<i>Sphecodes sp. E9</i>	2
<i>Sphecodes sp. E10</i>	1
<i>Sphecodes sp. E11</i>	1

	<i>Sphcodes</i> sp. E12	6	
	<i>Sphcodes</i> sp. E13	4	
	<i>Sphcodes</i> sp. E14	29	
	<i>Sphcodes</i> sp. E15	5	
	<i>Sphcodes</i> sp. E16	2	
	<i>Sphcodes</i> sp. E17	3	
	<i>Sphcodes</i> sp. E18	16	
Nomiinae			
	<i>Dieunomia</i> , 2 species		
	<i>Dieunomia (Dieunomia) heteropoda</i> (Say, 1824)	11	
	<i>Dieunomia (Epinomia) nevadensis</i> (Cresson, 1874)	300	
	<i>Nomia</i> , 1 species		
	<i>Nomia (Acunomia) tetrazonata tetrazonata</i> Cockerell, 1910	2	N
Rophitinae			
	<i>Dufourea</i> , 7 species, 1 new species		
	<i>Dufourea contarovici</i> Bohart, 1980	3	
	<i>Dufourea harveyi</i> (Cockerell, 1906)	1	
	<i>Dufourea malacothricis</i> Timberlake, 1939	138	
	<i>Dufourea sandhouseae</i> (Michener, 1937)	34	
	<i>Dufourea tinsleyi</i> (Cockerell, 1898)	5	
	<i>Dufourea</i> n. sp. 1	8	
	<i>Dufourea</i> sp. (aff. <i>saundersi</i> )	2	
<b>Megachilidae, 173 species, 15 genera, 12 new species</b>			
Megachilinae			
	<i>Anthidiellum</i> , 1 species		
	<i>Anthidiellum (Loyalanthidium) notatum</i> (Latreille, 1809)	89	
	<i>Anthidium</i> , 12 species		
	<i>Anthidium (Anthidium) atripes</i> Cresson, 1879	95	
	<i>Anthidium (Anthidium) atripoides</i> Gonzalez and Griswold, 2013	55	
	<i>Anthidium (Anthidium) cockerelli</i> Schwarz, 1928	34	
	<i>Anthidium (Anthidium) dammersi</i> Cockerell, 1937	27	
	<i>Anthidium (Anthidium) duomarginatum</i> Gonzalez and Griswold, 2013	1	
	<i>Anthidium (Anthidium) emarginatum</i> (Say, 1824)	1	
	<i>Anthidium (Anthidium) maculosum</i> Cresson, 1878	21	
	<i>Anthidium (Anthidium) mormonum</i> Cresson, 1878	149	
	<i>Anthidium (Anthidium) palmarum</i> Cockerell, 1904	6	
	<i>Anthidium (Anthidium) placitum</i> Cresson, 1879	111	
	<i>Anthidium (Anthidium) porterae</i> Cockerell, 1900	2	
	<i>Anthidium (Anthidium) schwarzi</i> Gonzalez and Griswold,	2	

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*Ashmeadiella*, 22 species, 3 new species

<i>Ashmeadiella (Arogochila) australis</i> (Cockerell, 1902)	107	
<i>Ashmeadiella (Arogochila) cazieri</i> Michener, 1939	12	
<i>Ashmeadiella (Arogochila) erema</i> Michener, 1939	12	
<i>Ashmeadiella (Arogochila) lutzi</i> (Cockerell, 1930)	10	
<i>Ashmeadiella (Arogochila) n. sp. 1</i> (aff. <i>leachi</i> )	2	
<i>Ashmeadiella (Arogochila) n. sp. 2</i> (aff. <i>micheneri</i> )	76	
<i>Ashmeadiella (Arogochila) n. sp. 3</i> (aff. <i>salviae</i> )	1	
<i>Ashmeadiella (Ashmeadiella) aridula</i> Cockerell, 1910	703	
<i>Ashmeadiella (Ashmeadiella) buconis</i> (Say, 1837)	547	
<i>Ashmeadiella (Ashmeadiella) cactorum</i> (Cockerell, 1897)	678	
<i>Ashmeadiella (Ashmeadiella) californica</i> (Ashmead, 1897)	17	
<i>Ashmeadiella (Ashmeadiella) cubiceps clypeata</i> Michener, 1936	10	NS
<i>Ashmeadiella (Ashmeadiella) difugita</i> Michener, 1939	1	
<i>Ashmeadiella (Ashmeadiella) foveata</i> Michener, 1939	19	
<i>Ashmeadiella (Ashmeadiella) gillettei</i> Titus, 1904	244	
<i>Ashmeadiella (Ashmeadiella) meliloti</i> (Cockerell, 1897)	192	
<i>Ashmeadiella (Ashmeadiella) opuntiae</i> (Cockerell, 1897)	464	
<i>Ashmeadiella (Ashmeadiella) sonora</i> Michener, 1939	103	
<i>Ashmeadiella (Ashmeadiella) vandykiella</i> Michener, 1949	40	NS
<i>Ashmeadiella (Ashmeadiella) sp. 1</i> (aff. <i>rufipes</i> )	4	
<i>Ashmeadiella (Ashmeadiella) sp. 2</i> (aff. <i>titusi</i> )	11	
<i>Ashmeadiella (Cubitognatha) xenomastax</i> Michener, 1939	48	

*Atoposmia*, 4 species, 3 new species

<i>Atoposmia (Atoposmia) sp. 1</i> (aff. <i>triodonta</i> )	4	
<i>Atoposmia (Atoposmia) n. sp. 1</i>	48	
<i>Atoposmia (Atoposmia) n. sp. 2</i> (aff. <i>anthodyta</i> )	11	
<i>Atoposmia (Eremosmia) n. sp. 3</i> (aff. <i>daleae</i> )	47	

*Coelioxys*, 9 species

<i>Coelioxys (Boreocoelioxys) rufitarsis</i> Smith, 1854	3	
<i>Coelioxys (Boreocoelioxys) sayi</i> Robertson, 1897	1	
<i>Coelioxys (Coelioxys) hirsutissimus</i> Cockerell, 1912	2	
<i>Coelioxys (Coelioxys) mitchelli</i> J. R. Baker, 1975	1	NS
<i>Coelioxys (Cyrtocoelioxys) gilensis</i> Cockerell, 1898	5	
<i>Coelioxys (Synocoelioxys) apacheorum</i> Cockerell, 1900	1	
<i>Coelioxys (Synocoelioxys) hunteri</i> Crawford, 1914	11	NS
<i>Coelioxys (Xerocoelioxys) grindeliae</i> Cockerell, 1900	13	
<i>Coelioxys (Xerocoelioxys) mesae</i> Cockerell, 1921	2	

*Diathidium*, 9 species



<i>Dianthidium (Adanthidium) arizonicum</i> Rohwer, 1916	17	NS
<i>Dianthidium (Dianthidium) cressonii</i> (Dalla Torre, 1896)	55	
<i>Dianthidium (Dianthidium) dubium dubium</i> Schwarz, 1928	1	
<i>Dianthidium (Dianthidium) heterulkei heterulkei</i> Schwarz, 1940	1	
<i>Dianthidium (Dianthidium) implicatum</i> Timberlake, 1948	16	
<i>Dianthidium (Dianthidium) parvum</i> (Cresson, 1878)	349	
<i>Dianthidium (Dianthidium) platyurum platyurum</i> Cockerell, 1923	35	
<i>Dianthidium (Dianthidium) pudicum pudicum</i> (Cresson, 1879)	117	
<i>Dianthidium (Dianthidium) ulkei</i> (Cresson, 1878)	302	
<i>Dioxys</i> , 1 species		
<i>Dioxys pomonae pomonae</i> Cockerell, 1910	20	
<i>Dioxys pomonae timberlakei</i> Hurd, 1958	5	
<i>Heriades</i> , 4 species		
<i>Heriades (Neotrypetes) cressoni</i> Michener, 1938	357	
<i>Heriades (Neotrypetes) microphthalma</i> Michener, 1954	730	
<i>Heriades (Neotrypetes) timberlakei</i> Michener, 1938	732	
<i>Heriades (Neotrypetes) variolosa</i> (Cresson, 1872)	1	
<i>Hoplitis</i> , 9 species, 2 new species		
<i>Hoplitis (Alcidamea)</i> n. sp. 2	15	
<i>Hoplitis (Alcidamea) grinnelli</i> (Cockerell, 1910)	28	
<i>Hoplitis (Alcidamea) producta panamintana</i> Michener, 1947	15	
<i>Hoplitis (Cyrtosmia) hypocrita</i> (Cockerell, 1906)	12	
<i>Hoplitis (Dasyosmia) paroselae</i> Michener, 1947	13	
<i>Hoplitis (Monumetha) albifrons argentifrons</i> (Cresson, 1864)	28	
<i>Hoplitis (Penteriades) incanescens</i> (Cockerell, 1922)	82	CP, GSEN M
<i>Hoplitis (Proteriades)</i> n. sp. 1 (aff. <i>shoshone</i> )	26	
<i>Hoplitis (Proteriades) zuni</i> (Parker, 1977)	229	
<i>Lithurgopsis</i> , 1 species		
<i>Lithurgopsis apicalis</i> (Cresson, 1875)	372	
<i>Megachile</i> , 33 species, 1 new species		
<i>Megachile (Argyropile) parallela</i> Smith, 1853	88	
<i>Megachile (Argyropile) rossi</i> Mitchell, 1943	9	
<i>Megachile (Argyropile) townsendiana</i> Cockerell, 1898	3	
<i>Megachile (Chelostomoides) prosopidis</i> Cockerell, 1900	136	
<i>Megachile (Chelostomoides) subexilis</i> Cockerell, 1908	78	
<i>Megachile (Eutricharea) rotundata</i> (Fabricius, 1787)	1	
<i>Megachile (Litomegachile) coquilletti</i> Cockerell, 1915	3	
<i>Megachile (Litomegachile) lippiae</i> Cockerell, 1900	84	

<i>Megachile (Litomegachile) mendica</i> Cresson, 1878	15	
<i>Megachile (Litomegachile) onobrychidis</i> Cockerell, 1908	5	
<i>Megachile (Litomegachile) texana</i> Cresson, 1878	132	
<i>Megachile (Litomegachile) sp. 2 (aff. brevis)</i>	93	
<i>Megachile (Megachile) montivaga</i> Cresson, 1878	10	
<i>Megachile (Megachiloides) anograe</i> Cockerell, 1908	14	S
<i>Megachile (Megachiloides) casadae</i> Cockerell, 1898	30	
<i>Megachile (Megachiloides) legalis</i> Cresson, 1879	61	
<i>Megachile (Megachiloides) manifesta</i> Cresson, 1878	12	CP
<i>Megachile (Megachiloides) micheneri</i> Mitchell, 1936	1	
<i>Megachile (Megachiloides) mucorosa</i> Cockerell, 1908	2	CP
<i>Megachile (Megachiloides) nevadensis</i> Cresson, 1879	341	
<i>Megachile (Megachiloides) subanograe</i> Mitchell, 1934	59	
<i>Megachile (Megachiloides) sublaurita</i> Mitchell, 1927	79	
<i>Megachile (Megachiloides) subnigra</i> Cresson, 1879	35	
<i>Megachile (Megachiloides) sp. 1</i>	1	
<i>Megachile (Megachiloides) n. sp. (aff. umatillensis)</i>	17	
<i>Megachile (Sayapis) fidelis</i> Cresson, 1878	9	
<i>Megachile (Sayapis) inimica sayi</i> (Cresson, 1878)	150	
<i>Megachile (Sayapis) mellitarsis</i> Cresson, 1878	1	
<i>Megachile (Sayapis) pugnata</i> Say, 1837	1	
<i>Megachile (Xanthosarus) agustini</i> Cockerell, 1905	28	CP
<i>Megachile (Xanthosarus) cochisiana</i> Mitchell, 1934	117	
<i>Megachile (Xanthosarus) perihirta</i> Cockerell, 1898	6	
<i>Megachile (Xeromegachile) sp. 2</i>	1	
<i>Osmia</i> , 44 species, 2 new species		
<i>Osmia (Acanthosmioides) alpestris</i> Rust and Bohart, 1986	4	
<i>Osmia (Acanthosmioides) austromaritima</i> Michener, 1936	7	S
<i>Osmia (Acanthosmioides) integra</i> Cresson, 1878	199	
<i>Osmia (Acanthosmioides) longula</i> Cresson, 1864	2	
<i>Osmia (Acanthosmioides) nigrifrons</i> Cresson, 1878	59	
<i>Osmia (Acanthosmioides) unca</i> Michener, 1937	30	
<i>Osmia (Cephalosmia) californica</i> Cresson, 1864	115	
<i>Osmia (Cephalosmia) grinnelli</i> Cockerell, 1910	38	
<i>Osmia (Cephalosmia) montana montana</i> Cresson, 1864	4	
<i>Osmia (Cephalosmia) subaustralis</i> Cockerell, 1900	1	
<i>Osmia (Helicosmia) coloradensis</i> Cresson, 1878	167	
<i>Osmia (Helicosmia) texana</i> Cresson, 1872	6	
<i>Osmia (Melanosmia) albolateralis</i> Cockerell, 1906	23	
<i>Osmia (Melanosmia) austromaritima</i> Michener, 1936	3	
<i>Osmia (Melanosmia) brevis</i> Cresson, 1864	199	

<i>Osmia (Melanosmia) bruneri</i> Cockerell, 1897	193	
<i>Osmia (Melanosmia) cerasi</i> Cockerell, 1897	16	
<i>Osmia (Melanosmia) clarescens</i> Cockerell, 1911	4	
<i>Osmia (Melanosmia) cobaltina</i> Cresson, 1878	152	
<i>Osmia (Melanosmia) crassa</i> Rust and Bohart, 1986	20	
<i>Osmia (Melanosmia) dakotensis</i> Michener, 1937	35	
<i>Osmia (Melanosmia) ednae</i> Cockerell, 1907	16	S
<i>Osmia (Melanosmia) gaudiosa</i> Cockerell, 1907	96	
<i>Osmia (Melanosmia) iridis</i> Cockerell and Titus, 1902	21	S
<i>Osmia (Melanosmia) kincaidii</i> Cockerell, 1897	175	S
<i>Osmia (Melanosmia) liogastra</i> Cockerell, 1933	6	
<i>Osmia (Melanosmia) marginata</i> Michener, 1936	6	
<i>Osmia (Melanosmia) phenax</i> Cockerell, 1897	45	
<i>Osmia (Melanosmia) prunorum</i> Cockerell, 1897	3	
<i>Osmia (Melanosmia) pusilla</i> Cresson, 1864	2	
<i>Osmia (Melanosmia) rawlinsi</i> Sandhouse, 1939	110	
<i>Osmia (Melanosmia) sanrafaelae</i> Parker, 1985	161	
<i>Osmia (Melanosmia) trevoris</i> Cockerell, 1897	193	
<i>Osmia (Melanosmia) sp. 1 (aff. cyanella)</i>	1	
<i>Osmia (Melanosmia) sp. E1</i>	1	
<i>Osmia (Melanosmia) sp. E2</i>	1	
<i>Osmia (Melanosmia) sp. E3</i>	1	
<i>Osmia (Melanosmia) sp. E4</i>	1	
<i>Osmia (Melanosmia) sp. E5</i>	3	
<i>Osmia (Melanosmia) n. sp. 1</i>	34	CP, GSEN M
<i>Osmia (Melanosmia) n. sp. 2 (aff. enixa)</i>	19	
<i>Osmia (Osmia) lignaria propinqua</i> Cresson, 1864	342	
<i>Osmia (Osmia) ribifloris ribifloris</i> Cockerell, 1900	172	
<i>Osmia (Trichinosmia) latisulcata</i> Michener, 1936	17	
<i>Protosmia</i> , 1 species		
<i>Protosmia (Chelostomopsis) rubifloris</i> (Cockerell, 1898)	110	N, MD
<i>Stelis</i> , 16 species, 2 new species		
<i>Stelis (Dolichostelis) rudbeckiarum</i> Cockerell, 1904	12	
<i>Stelis (Stelis) anasazi</i> Parker and Griswold, 2013	5	
<i>Stelis (Stelis) carnifex</i> Cockerell, 1911	46	
<i>Stelis (Stelis) imperialis</i> Parker and Griswold, 2013	1	
<i>Stelis (Stelis) interrupta</i> Cresson, 1897	2	
<i>Stelis (Stelis) lamelliterga</i> Parker and Griswold, 2013	9	
<i>Stelis (Stelis) lateralis</i> Cresson, 1864	4	

<i>Stelis (Stelis) montana</i> Cresson, 1864	3
<i>Stelis (Stelis)</i> n. sp. 1	2
<i>Stelis (Stelis)</i> n. sp. 2	1
<i>Stelis (Stelis) occidentalis</i> Parker and Griswold, 2013	3
<i>Stelis (Stelis) paiute</i> Parker and Griswold, 2013	1
<i>Stelis (Stelis) palmarum</i> Timberlake, 1941	12
<i>Stelis (Stelis) pavonina</i> (Cockerell, 1908)	1
<i>Stelis (Stelis) robertsoni</i> Timberlake, 1941	2
<i>Stelis (Stelis) submarginata</i> Cresson, 1878	1
<i>Trachusa</i> , 2 species	
<i>Trachusa (Heteranthidium) cordaticeps</i> (Michener, 1949)	4
<i>Trachusa (Heteranthidium) zebrata</i> (Cresson, 1872)	1
<b>Melittidae, 5 species, 1 genus, 2 new species</b>	
<i>Hesperapis</i> , 5 species, 2 new species	
<i>Hesperapis (Carinapis) carinata</i> Stevens, 1919	1
<i>Hesperapis (Carinapis) oliviae</i> (Cockerell, 1897)	26
<i>Hesperapis (Disparapis)</i> sp. 1 (aff. <i>cockerelli</i> )	33
<i>Hesperapis (Disparapis)</i> n. sp. 1 (aff. <i>disparapis</i> )	5
<i>Hesperapis (Panurgomia)</i> n. sp. 2	211