

Maureen Beezhold

Oregon Bee Atlas Collection and Identification Report

1 All Your Collections

Maureen Beezhold caught 361 bees across 5 counties from May 26, 2018 to October 06, 2020, representing 52 unique taxa, including 41 unique species.

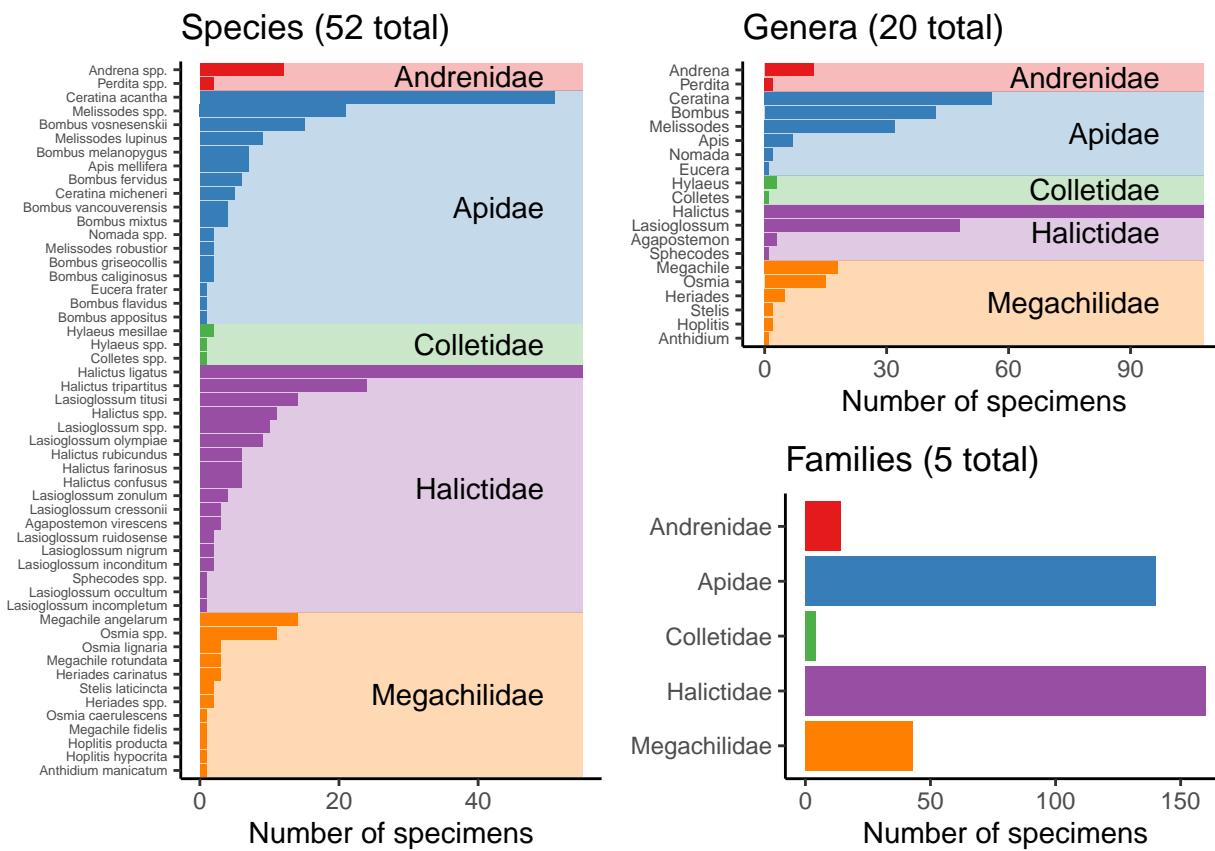


Figure 1: Bees caught by Maureen Beezhold, broken down by species, genus, and family.

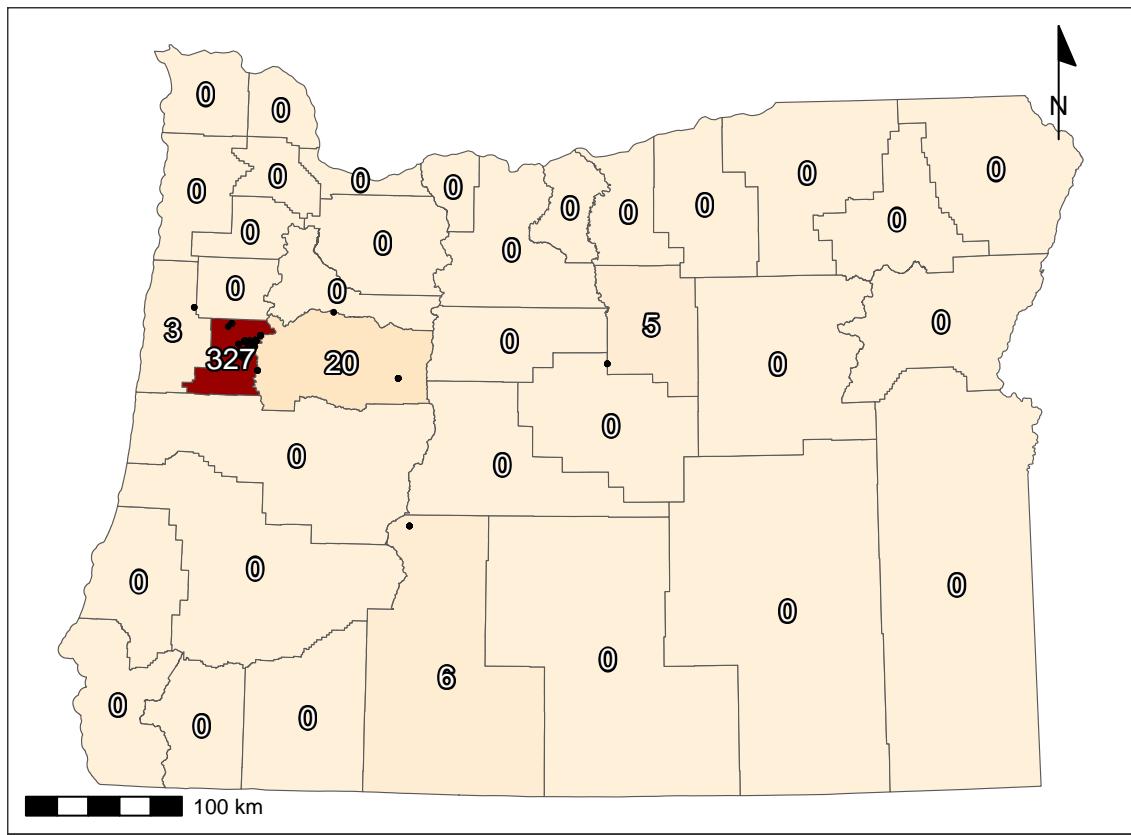


Figure 2: Bee catch locations for Maureen Beezhold (within Oregon), along with total catches per county.

2 Total Catches

Volunteers from the Oregon Bee Atlas project caught 22478 bees across 36 counties from January 24, 2023 to December 13, 2023, representing 90 unique species and 48 unique genera. The **Nimble Net Kudos** (most specimens collected) goes to Scott Sublette, Dan O'Loughlin, and Michael O'Loughlin, who caught a total of 2274, 1283, and 1255 specimens. The *positive* kind of **Darwin Award** (most species collected) goes to Scott Sublette, Ellen Silva, and Michael O'Loughlin, who caught a total of 77, 74, and 72 unique species. Well done!



Figure 3: Bees caught by all volunteers, broken down by species, genus, and family.

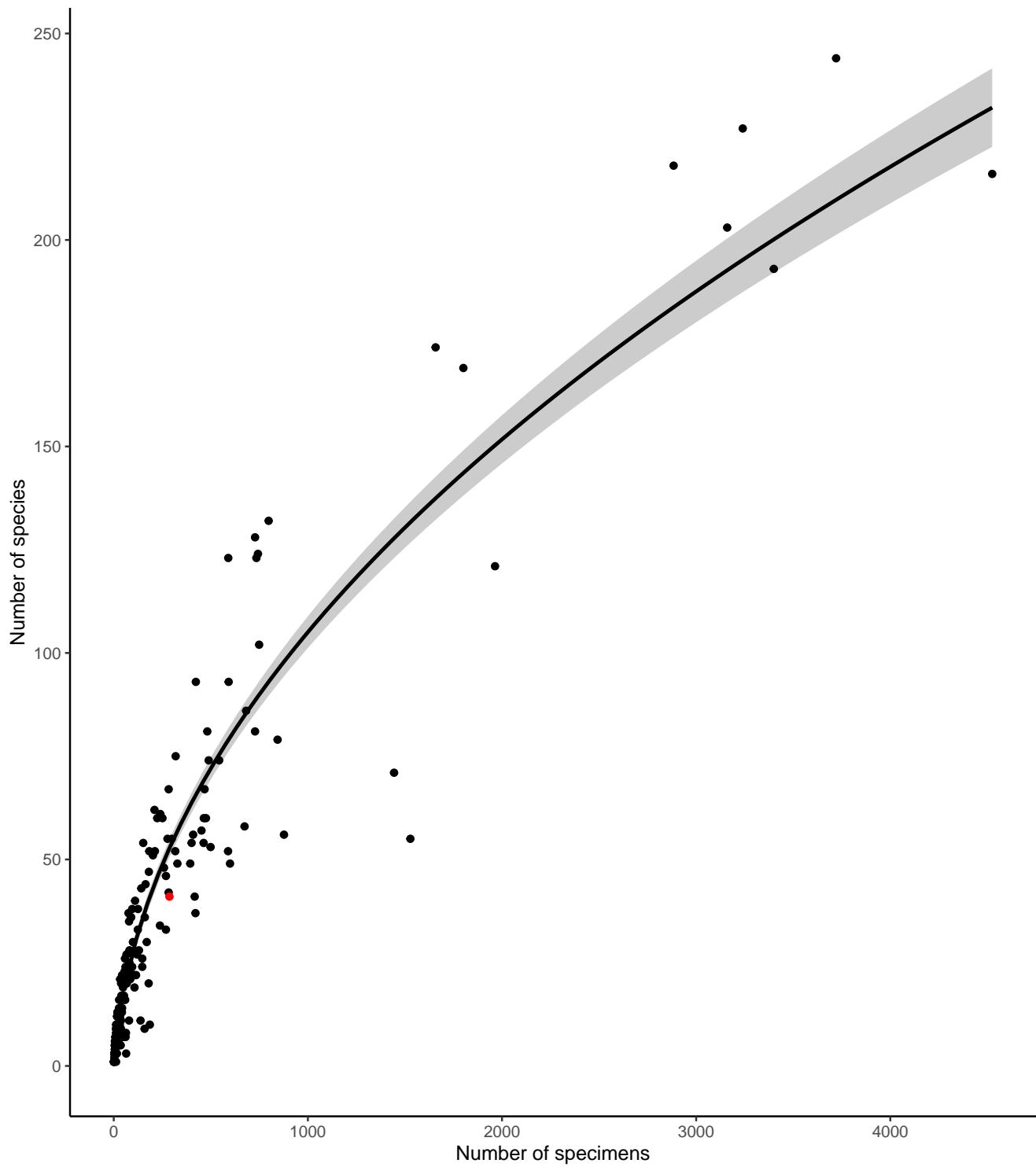


Figure 4: Number of bee specimens and unique bee species caught by all volunteers, with your effort shown in red. This graph should give you an idea of how many specimens you would need to catch to begin seeing rarer bee species.



Figure 5: Total specimens caught per county, along with catch location of each specimen (black dots). For genus- and species-specific information for each county, see Tables 3 and 4.



Figure 6: Total catches per (Level III) ecoregion, along with catch location of each specimen (black dots).

3 Flight Phenology

West of (and including) the Cascade Mountains, most bees (90%) were caught between April 13 and September 02, but the peak of season (50% of specimens) was from May 21 to July 26.



Figure 7: Phenology plot for all bee species caught in or West of the Cascade Mountains, sorted by median abundance times. Percentiles of overall emergence times (50th & 90th) are shown in grey shaded regions. Date ranges for each species (minimum, first, second, third quartiles, and maximum) are shown only for species with >10 specimens.

East of the Cascade Mountains, most bees (90%) were caught between April 28 and September 16, but the peak of season (50% of specimens) was from June 02 to August 07.



Figure 8: Phenology plot for all bee species caught east of the Cascade Mountains, sorted by median abundance times. Percentiles of overall emergence times (50th & 90th) are shown in grey shaded regions. Date ranges for each species (minimum, first, second, third quartiles, and maximum) are shown only for species with >10 specimens.

4 Plant genera

Volunteers collected specimens from a total of 636 unique flower genera, with most volunteers sampling from 19 flower genera (median value). The **Flower Power Kudos** (most sampled flower genera) goes to Michael O'Loughlin, Lori Humphreys, and Dan O'Loughlin, who collected bees from a total of 246, 210, and 188 genera of flowers. Well done!

The flower genera that had the most specimens caught on them were *Ericameria*, *Phacelia*, and *Penstemon*, which yielded a total of 6308, 4129, and 3411 specimens. The flower genera that were popular with the most species of bees were *Phacelia*, *Penstemon*, and *Ericameria*, hosting a total of 179, 167, and 140 unique bee species. See Tables 1 and 2 for more details.



Figure 9: Recorded number of flower genera per county.

Table 1: Number of bee specimens collected from each plant genus. Plants with few records are great targets for future sampling.

Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count
<i>Ericameria</i>	6308	<i>Chaenactis</i>	274	<i>Rupertia</i>	65	<i>Anchusa</i>	26	<i>Alyssum</i>	10	<i>Apium</i>	5	<i>Actaea</i>	2		
<i>Phacelia</i>	4129	<i>Acer</i>	271	<i>Adelphia</i>	64	<i>Dichelostemma</i>	26	<i>Cercis</i>	10	<i>Cistus</i>	5	<i>Allophylum</i>	2		
<i>Penstemon</i>	3411	<i>Sphaeralcea</i>	271	<i>Ageratina</i>	64	<i>Caryopteris</i>	25	<i>Doronicum</i>	10	<i>Corylus</i>	5	<i>Bauhinia</i>	2		
<i>Grindelia</i>	2796	<i>Heracleum</i>	270	<i>Calyptidium</i>	64	<i>Navarretia</i>	25	<i>Echinops</i>	10	<i>Anthriscus</i>	4	<i>Betonica</i>	2		
<i>Rubus</i>	2658	<i>Gaillardia</i>	263	<i>Glebionis</i>	62	<i>Pedicularis</i>	25	<i>Heliospis</i>	10	<i>Aruncus</i>	4	<i>Bromus</i>	2		
<i>Ceanothus</i>	2352	<i>Crataegus</i>	261	<i>Crocidium</i>	62	<i>Petrosedum</i>	25	<i>Hemerocheilis</i>	10	<i>Asperugo</i>	4	<i>Cardionema</i>	2		
<i>Cirsium</i>	2349	<i>Acniphyson</i>	258	<i>Agoseris</i>	60	<i>Pieris</i>	25	<i>Kickxia</i>	10	<i>Beta</i>	4	<i>Castanea</i>	2		
<i>Salix</i>	2169	<i>Gilia</i>	247	<i>Cotinus</i>	60	<i>Erysimum</i>	24	<i>Layia</i>	10	<i>Crassula</i>	4	<i>Celosia</i>	2		
<i>Solidago</i>	1914	<i>Malus</i>	243	<i>Hirschfeldia</i>	59	<i>Lewisia</i>	24	<i>Liatris</i>	10	<i>Damasonium</i>	4	<i>Comandra</i>	2		
<i>Potentilla</i>	1842	<i>Marrubium</i>	234	<i>Iliamna</i>	59	<i>Lobularia</i>	24	<i>Altiella</i>	9	<i>Datura</i>	4	<i>Cormus</i>	2		
<i>Prunus</i>	1726	<i>Vaccinium</i>	225	<i>Persicaria</i>	59	<i>Rhaponticum</i>	24	<i>Choisia</i>	9	<i>Elymus</i>	4	<i>Crocus</i>	2		
<i>Chrysanthemum</i>	1684	<i>Veronica</i>	213	<i>Arbutus</i>	57	<i>Sambucus</i>	24	<i>Diplacus</i>	9	<i>Gypsophila</i>	4	<i>Cydonia</i>	2		
<i>Eriogonum</i>	1588	<i>Philadelphus</i>	204	<i>Foeniculum</i>	57	<i>Stewartia</i>	24	<i>Draba</i>	9	<i>Helleborus</i>	4	<i>Danthonia</i>	2		
<i>Helianthus</i>	1563	<i>Astragalus</i>	202	<i>Blepharipappus</i>	56	<i>Cardamine</i>	23	<i>Fraxinus</i>	9	<i>Holcus</i>	4	<i>Daphne</i>	2		
<i>Lupinus</i>	1506	<i>Raphanus</i>	199	<i>Dales</i>	55	<i>Chamaebatatica</i>	23	<i>Lagophylla</i>	9	<i>Impatiens</i>	4	<i>Dianthus</i>	2		
<i>Ribes</i>	1419	<i>Amansinica</i>	197	<i>Eryngium</i>	55	<i>Phlox</i>	23	<i>Maianthemum</i>	9	<i>Kopsiopsis</i>	4	<i>Dipterostemon</i>	2		
<i>Sympyotrichum</i>	1418	<i>Convolvulus</i>	194	<i>Lithospermum</i>	55	<i>Robinia</i>	23	<i>Melissa</i>	9	<i>Mutarda</i>	4	<i>Echinocystis</i>	2		
<i>Hypochaeris</i>	1393	<i>Hydrophyllum</i>	180	<i>Mertensia</i>	55	<i>Smithiastrum</i>	23	<i>Mimulus</i>	9	<i>Paonia</i>	4	<i>Eucephalus</i>	2		
<i>Arctostaphylos</i>	1332	<i>Polemonium</i>	179	<i>Sorbus</i>	54	<i>Aralia</i>	22	<i>Papaver</i>	9	<i>Pastinaca</i>	4	<i>Festuca</i>	2		
<i>Lomatium</i>	1308	<i>Taraxia</i>	179	<i>Lamium</i>	53	<i>Erythronium</i>	22	<i>Vernonia</i>	9	<i>Prosartes</i>	4	<i>Achlys</i>	1		
<i>Taraxacum</i>	1286	<i>Coreopsis</i>	178	<i>Styrax</i>	53	<i>Leptosiphon</i>	22	<i>Vitez</i>	9	<i>Pseudognaphalium</i>	4	<i>Actinidia</i>	1		
<i>Melilotus</i>	1237	<i>Iris</i>	178	<i>Antennaria</i>	52	<i>Pseudotsuga</i>	22	<i>Aesculus</i>	8	<i>Romanzoffia</i>	4	<i>Allotropa</i>	1		
<i>Calochortus</i>	1224	<i>Amelanchier</i>	177	<i>Cynoglossum</i>	52	<i>Quercus</i>	22	<i>Aronia</i>	8	<i>Scabiosa</i>	4	<i>Alnus</i>	1		
<i>Eriophyllum</i>	1198	<i>Armenia</i>	166	<i>Cytisus</i>	52	<i>Artemisia</i>	21	<i>Baptisia</i>	8	<i>Swainsona</i>	4	<i>Alstroemeria</i>	1		
<i>Erigeron</i>	1173	<i>Angelica</i>	158	<i>Geum</i>	52	<i>Comium</i>	21	<i>Calandrinia</i>	8	<i>Tephrosaris</i>	4	<i>Amaranthus</i>	1		
<i>Lotus</i>	1147	<i>Delphinium</i>	158	<i>Ilex</i>	52	<i>Eurybia</i>	21	<i>Canadanthus</i>	8	<i>Tiarella</i>	4	<i>Anemone</i>	1		
<i>Centauraea</i>	1106	<i>Medicago</i>	158	<i>Aurinia</i>	51	<i>Heuchera</i>	21	<i>Cordylanthus</i>	8	<i>Tradescantia</i>	4	<i>Anethum</i>	1		
<i>Trifolium</i>	1070	<i>Castilleja</i>	154	<i>Boynkinia</i>	51	<i>Micranthes</i>	21	<i>Eruca</i>	8	<i>Triantha</i>	4	<i>Arctium</i>	1		
<i>Leucanthemum</i>	989	<i>Calendula</i>	142	<i>Caragana</i>	51	<i>Sisyrinchium</i>	21	<i>Eupatorium</i>	8	<i>Tribulus</i>	4	<i>Argemone</i>	1		
<i>Vicia</i>	988	<i>Nemophila</i>	142	<i>Viburnum</i>	51	<i>Cicuta</i>	20	<i>Ficaria</i>	8	<i>Tropaeolum</i>	4	<i>Atriplex</i>	1		
<i>Chamaenerion</i>	983	<i>Tanacetum</i>	139	<i>Linum</i>	50	<i>Pinus</i>	20	<i>Lithodora</i>	8	<i>Zeltnera</i>	4	<i>Begonia</i>	1		
<i>Balsamorhiza</i>	914	<i>Marrubium</i>	138	<i>Scandix</i>	50	<i>Populus</i>	20	<i>Nasturtium</i>	8	<i>Agopodium</i>	3	<i>Betula</i>	1		
<i>Lepidium</i>	862	<i>Cornus</i>	135	<i>Nothochelone</i>	49	<i>Bellardia</i>	19	<i>Phyllodoce</i>	8	<i>Armeria</i>	3	<i>Cacaliopsis</i>	1		
<i>Achillea</i>	828	<i>Limnanthes</i>	133	<i>Brodiaea</i>	48	<i>Clematis</i>	19	<i>Poa</i>	8	<i>Asparagus</i>	3	<i>Calibrachoa</i>	1		
<i>Apocynum</i>	804	<i>Verbera</i>	129	<i>Cotoneaster</i>	48	<i>Hymenoxys</i>	19	<i>Spergula</i>	8	<i>Astrantia</i>	3	<i>Carex</i>	1		
<i>Mentha</i>	786	<i>Cardus</i>	123	<i>Tragopogon</i>	48	<i>Ladeania</i>	19	<i>Stanleya</i>	8	<i>Aucuba</i>	3	<i>Catalpa</i>	1		
<i>Sidalcea</i>	767	<i>Mentzelia</i>	122	<i>Tetradymia</i>	47	<i>Abelia</i>	18	<i>Tagetes</i>	8	<i>Brunnera</i>	3	<i>Cerithie</i>	1		
<i>Ranunculus</i>	765	<i>Triteleia</i>	118	<i>Teucrium</i>	47	<i>Alisma</i>	18	<i>Xerophyllum</i>	8	<i>Buzus</i>	3	<i>Chaenomeles</i>	1		
<i>Eschscholzia</i>	764	<i>Dasisphora</i>	114	<i>Echinacea</i>	46	<i>Amorpha</i>	18	<i>Jagua</i>	7	<i>Calocedrus</i>	3	<i>Chamaemelum</i>	1		
<i>Holodiscus</i>	693	<i>Dipsacus</i>	112	<i>Kolkwitzia</i>	44	<i>Ligustrum</i>	19	<i>Pea</i>	8	<i>Asparagus</i>	3	<i>Calibrachoa</i>	1		
<i>Allium</i>	667	<i>Hoasackia</i>	111	<i>Orthocarpus</i>	44	<i>Physaria</i>	18	<i>Circuta</i>	20	<i>Astrantia</i>	3	<i>Corydalis</i>	1		
<i>Bellis</i>	662	<i>Lonicera</i>	110	<i>Stellaria</i>	44	<i>Cymopterus</i>	18	<i>Croton</i>	7	<i>Crocosmia</i>	3	<i>Glechoma</i>	1		
<i>Plagiobothrys</i>	656	<i>Fraseria</i>	109	<i>Chrysolepis</i>	43	<i>Bassia</i>	17	<i>Centranthus</i>	3	<i>Cucumis</i>	3	<i>Gnaphalium</i>	1		
<i>Camassia</i>	648	<i>Euthamia</i>	108	<i>Petroselinum</i>	42	<i>Olsynium</i>	17	<i>Delosperma</i>	7	<i>Cypripedium</i>	1	<i>Eremothera</i>	1		
<i>Spiraea</i>	640	<i>Bistorta</i>	105	<i>Aster</i>	41	<i>Umbellaria</i>	14	<i>Eucryphia</i>	7	<i>Chrysopsis</i>	3	<i>Filipendula</i>	1		
<i>Geranium</i>	607	<i>Dieteria</i>	105	<i>Gayophyllum</i>	41	<i>Vancouveria</i>	17	<i>Glandora</i>	7	<i>Circea</i>	3	<i>Porsythia</i>	1		
<i>Symporicarpas</i>	607	<i>Malva</i>	105	<i>Ligusticum</i>	41	<i>Hydrangea</i>	16	<i>Gleditsia</i>	7	<i>Clinopodium</i>	3	<i>Fremontodendron</i>	1		
<i>Berberis</i>	592	<i>Anthemis</i>	104	<i>Primula</i>	41	<i>Kellokia</i>	16	<i>Clintonia</i>	7	<i>Conioselinum</i>	3	<i>Fuchsia</i>	1		
<i>Rosa</i>	575	<i>Bidens</i>	104	<i>Verbascum</i>	41	<i>Lilium</i>	16	<i>Heliotropium</i>	7	<i>Crocosmia</i>	3	<i>Glechoma</i>	1		
<i>Jacobaea</i>	555	<i>Thymus</i>	103	<i>Columbiadoria</i>	40	<i>Zinnia</i>	16	<i>Hysopus</i>	7	<i>Centranthus</i>	3	<i>Magnolia</i>	1		
<i>Senecio</i>	533	<i>Mahonia</i>	101	<i>Hieracium</i>	40	<i>Kniphofia</i>	7	<i>Isatis</i>	7	<i>Chrysanthemum</i>	3	<i>Phoenicaulis</i>	1		
<i>Salvia</i>	520	<i>Chondrilla</i>	99	<i>Erica</i>	36	<i>Townsendia</i>	7	<i>Delosperma</i>	7	<i>Dahlia</i>	3	<i>Moehringia</i>	1		
<i>Rhus</i>	493	<i>Oenothera</i>	97	<i>Pyracantha</i>	40	<i>Umbellaria</i>	14	<i>Kniphoia</i>	7	<i>Microsteris</i>	3	<i>Grayia</i>	1		
<i>Agastache</i>	489	<i>Stachys</i>	97	<i>Toxicoscordion</i>	40	<i>Urtica</i>	15	<i>Gentiana</i>	15	<i>Deutzia</i>	3	<i>Helianthemum</i>	1		
<i>Madia</i>	484	<i>Purshia</i>	95	<i>Barbarea</i>	38	<i>Pyracantha</i>	38	<i>Parthenocissus</i>	7	<i>Lathyrus</i>	3	<i>Knautia</i>	1		
<i>Daucus</i>	482	<i>Heterotheca</i>	94	<i>Linaris</i>	38	<i>Ipomoea</i>	14	<i>Antirrhinum</i>	6	<i>Microseris</i>	3	<i>Lepicinaria</i>	1		
<i>Sedum</i>	457	<i>Cleomelea</i>	93	<i>Erica</i>	36	<i>Scrophularia</i>	33	<i>Kniphofia</i>	7	<i>Microseris</i>	3	<i>Littoralia</i>	1		
<i>Clarkia</i>	451	<i>Cucurbita</i>	93	<i>Lithophragma</i>	36	<i>Umbellaria</i>	14	<i>Gentianella</i>	15	<i>Microseris</i>	3	<i>Ludwigia</i>	1		
<i>Hackelia</i>	436	<i>Pyrrocoma</i>	93	<i>Calystegia</i>	33	<i>Scutellaria</i>	32	<i>Galanthus</i>	6	<i>Microseris</i>	3	<i>Olea</i>	3		
<i>Sisymbrium</i>	430	<i>Polygonum</i>	91	<i>Microseris</i>	35	<i>Scrophularia</i>	32	<i>Antirrhinum</i>	6	<i>Osmansthus</i>	3	<i>Lunaria</i>	1		
<i>Brassica</i>	423	<i>Plantago</i>	89	<i>Oreocarya</i>	35	<i>Cerastium</i>	13	<i>Pentaglottis</i>	13	<i>Osmansthus</i>	3	<i>Lycopus</i>	1		
<i>Drymocallis</i>	421	<i>Thermopsis</i>	89	<i>Cercocarpus</i>	34	<i>Glycyrrhiza</i>	13	<i>Hastingsia</i>	6	<i>Polygonum</i>	3	<i>Pedicularis</i>	1		
<i>Asclepias</i>	411	<i>Heuchera</i>	88	<i>Opuntia</i>	34	<i>Elaeagnus</i>	12	<i>Caltha</i>	6	<i>Petasites</i>	3	<i>Magnolia</i>	1		
<i>Claytonia</i>	403	<i>Perideridia</i>	86	<i>Pyrrocoma</i>	34	<i>Ipomoea</i>	13	<i>Capella</i>	6	<i>Phoenicaulis</i>	3	<i>Melaleuca</i>	1		
<i>Physocarpus</i>	403	<i>Doellingeria</i>	84	<i>Scrophularia</i>	33	<i>Nothocalais</i>	13	<i>Distichlis</i>	6	<i>Phygostegia</i>	3	<i>Moenchia</i>	1		
<i>Anaphalis</i>	401	<i>Fagopyrum</i>	81	<i>Agapanthus</i>	32	<i>Galanthus</i>	6	<i>Gentianella</i>	15	<i>Microseris</i>	3	<i>Mycelis</i>	1		
<i>Prunella</i>	401	<i>Trichostema</i>	80	<i>Campanula</i>	32	<i>Pentaglottis</i>	13	<i>Hastingsia</i>	6	<i>Microseris</i>	3	<i>Nicotiana</i>	1		
<i>Fragaria</i>	394	<i>Myosotis</i>	79	<i>Chorispora</i>	32	<i>Platanthera</i>	13	<i>Hemizonia</i>	6	<i>Polygonum</i>	2	<i>Nuphar</i>	1		
<i>Plectritis</i>	381	<i>Thlaspi</i>	79	<i>Colomia</i>	32	<i>Reynoutria</i>	13	<i>Tolmiea</i>	6	<i>Pedicularis</i>	2	<i>Polygonum</i>	1		
<i>Nepea</i>	376	<i>Cosmos</i>	78	<i>Lathenaria</i>	32	<i>Sancium</i>	13	<i>Iviesia</i>	6	<i>Polygonum</i>	2	<i>Onobrychis</i>	1		
<i>Lavandula</i>	372	<i>Hesperocniren</i>	78	<i>Satureja</i>	32	<i>Luetkea</i>	11	<i>Ligularia</i>	2	<i>Polygonum</i>	2	<i>Olopanax</i>	1		
<i>Horkelia</i>	352	<i>Solanum</i>	78	<i>Eremogone</i>	31	<i>Matricaria</i>	11	<i>Polygonum</i>	2	<i>Polygonum</i>	2	<i>Osteospermum</i>	1		
<i>Lathyrus</i>	347	<i>Oreostemma</i>	77	<i>Escallonia</i>	31	<i>Teesdalia</i>	13	<i>Nestotus</i>	6	<i>Lobelia</i>	2	<i>Oxythea</i>	1		
<i>Wyethia</i>	341	<i>Syringa</i>	77	<i>Hyacinthodes</i>	31	<i>Tithonia</i>	13	<i>Rheum</i>	6	<i>Lysimachia</i>	2	<i>Parnassia</i>	1		
<i>Monardella</i>	339	<i>Downingia</i>	76	<i>Baccharis</i>	31	<i>Coriandrum</i>	12	<i>Hemizonia</i>	6	<i>Moehringia</i>	2	<i>Pedicularis</i>	1		
<i>Erythranthe</i>	338	<i>Digitalis</i>	75	<i>Alcea</i>	30	<i>Elaeagnus</i>	12	<i>Tolmiea</i>	6	<i>Polygonum</i>	2				

Table 2: Number of bee species collected from each plant genus

Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count	Genus	Count
<i>Phacelia</i>	179	<i>Fragaria</i>	41	<i>Aster</i>	19	<i>Coriandrum</i>	10	<i>Alyssum</i>	5	<i>Aliciella</i>	3	<i>Achlys</i>	1		
<i>Penstemon</i>	167	<i>Triteleia</i>	41	<i>Boysinia</i>	19	<i>Cynara</i>	10	<i>Baptisia</i>	5	<i>Anthriscus</i>	3	<i>Actinidia</i>	1		
<i>Ericameria</i>	140	<i>Angelica</i>	40	<i>Digitalis</i>	19	<i>Dicentra</i>	10	<i>Canadanthus</i>	5	<i>Armeria</i>	3	<i>Allotropa</i>	1		
<i>Grindelia</i>	133	<i>Bellis</i>	40	<i>Alcea</i>	18	<i>Hymenoxys</i>	10	<i>Croton</i>	5	<i>Asparagus</i>	3	<i>Alnus</i>	1		
<i>Rubus</i>	129	<i>Collinsia</i>	40	<i>Antennaria</i>	18	<i>Lythrum</i>	10	<i>Delosperma</i>	5	<i>Astrantia</i>	3	<i>Alstroemeria</i>	1		
<i>Cirsium</i>	126	<i>Marrubium</i>	40	<i>Arbutus</i>	18	<i>Orthocarpus</i>	10	<i>Diplacus</i>	5	<i>Bassia</i>	3	<i>Amaranthus</i>	1		
<i>Eriophyllum</i>	123	<i>Onopordum</i>	40	<i>Caragana</i>	18	<i>Primula</i>	10	<i>Galanthus</i>	5	<i>Boechera</i>	3	<i>Anemone</i>	1		
<i>Erigeron</i>	120	<i>Lonicera</i>	39	<i>Cosmos</i>	18	<i>Caluna</i>	9	<i>Glandora</i>	5	<i>Brunnera</i>	3	<i>Anethum</i>	1		
<i>Potentilla</i>	120	<i>Cryptantha</i>	38	<i>Hesperochiron</i>	18	<i>Erythronium</i>	9	<i>Heliotropium</i>	5	<i>Capsella</i>	3	<i>Arctium</i>	1		
<i>Sympotrichum</i>	119	<i>Heracleum</i>	38	<i>Hieracium</i>	18	<i>Euonymus</i>	9	<i>Isatis</i>	5	<i>Centromadia</i>	3	<i>Argemone</i>	1		
<i>Solidago</i>	117	<i>Raphanus</i>	38	<i>Lactuca</i>	18	<i>Hydrangea</i>	9	<i>Kalmia</i>	5	<i>Chrysopsis</i>	3	<i>Atriplex</i>	1		
<i>Ceanothus</i>	115	<i>Diasiphora</i>	37	<i>Lamium</i>	18	<i>Leptosiphon</i>	9	<i>Leucophysalis</i>	5	<i>Cirsaea</i>	3	<i>Aucuba</i>	1		
<i>Melilotus</i>	113	<i>Medicago</i>	37	<i>Lasthenia</i>	18	<i>Narcissus</i>	9	<i>Matriaria</i>	5	<i>Clinopodium</i>	3	<i>Begonia</i>	1		
<i>Lupinus</i>	109	<i>Anthemis</i>	36	<i>Ligusticum</i>	18	<i>Oreocarya</i>	9	<i>Notholithocarpus</i>	5	<i>Conioselinum</i>	3	<i>Betonica</i>	1		
<i>Trifolium</i>	109	<i>Crataegus</i>	35	<i>Plantago</i>	18	<i>Petrosedum</i>	9	<i>Pilosella</i>	5	<i>Crassula</i>	3	<i>Betula</i>	1		
<i>Eriogonum</i>	108	<i>Tanacetum</i>	35	<i>Adelinia</i>	17	<i>Platanthera</i>	9	<i>Rheum</i>	5	<i>Cucumis</i>	3	<i>Buxus</i>	1		
<i>Salix</i>	105	<i>Claytonia</i>	34	<i>Columbiadoria</i>	17	<i>Salsola</i>	9	<i>Sambucus</i>	5	<i>Cymopterus</i>	3	<i>Calochortis</i>	1		
<i>Chrysanthemus</i>	102	<i>Eriodictyon</i>	34	<i>Cotoneaster</i>	17	<i>Scrophularia</i>	9	<i>Symplytum</i>	5	<i>Dahlia</i>	3	<i>Calibrachoa</i>	1		
<i>Calochortus</i>	100	<i>Hydrophyllum</i>	34	<i>Downingia</i>	17	<i>Aconitum</i>	8	<i>Townsendia</i>	5	<i>Daturu</i>	3	<i>Calocedrus</i>	1		
<i>Chamaenerion</i>	98	<i>Castilleja</i>	33	<i>Foeniculum</i>	17	<i>Aronia</i>	8	<i>Abronia</i>	4	<i>Deutzia</i>	3	<i>Carex</i>	1		
<i>Achillea</i>	97	<i>Corrus</i>	33	<i>Hirschfeldia</i>	17	<i>Bellardia</i>	8	<i>Aesculus</i>	4	<i>Echinops</i>	3	<i>Catalpa</i>	1		
<i>Centauraea</i>	96	<i>Descurainia</i>	33	<i>Linaria</i>	17	<i>Cakile</i>	8	<i>Ajuga</i>	4	<i>Eriastrum</i>	3	<i>Cerinthe</i>	1		
<i>Senecio</i>	96	<i>Oenothera</i>	33	<i>Linum</i>	17	<i>Cardamine</i>	8	<i>Aruncus</i>	4	<i>Frazinius</i>	3	<i>Chaenomeles</i>	1		
<i>Ribes</i>	95	<i>Rhus</i>	33	<i>Persicaria</i>	17	<i>Cercis</i>	8	<i>Asperugo</i>	4	<i>Fritillaria</i>	3	<i>Chamaemelum</i>	1		
<i>Rosa</i>	90	<i>Amelanchier</i>	32	<i>Viburnum</i>	17	<i>Chorispora</i>	8	<i>Calandrinia</i>	4	<i>Galium</i>	3	<i>Chimaphila</i>	1		
<i>Geranium</i>	85	<i>Dipsacus</i>	32	<i>Dichelostemma</i>	16	<i>Cuscuta</i>	8	<i>Choisya</i>	4	<i>Gleditsia</i>	3	<i>Clindonia</i>	1		
<i>Leucanthemum</i>	84	<i>Marath</i>	32	<i>Kolkwitzia</i>	16	<i>Elaeagnus</i>	8	<i>Cistus</i>	4	<i>Actaea</i>	2	<i>Cormus</i>	1		
<i>Prunus</i>	84	<i>Oreostemma</i>	32	<i>Lapsana</i>	16	<i>Escallonia</i>	8	<i>Cordylanthus</i>	4	<i>Aegopodium</i>	2	<i>Corydalis</i>	1		
<i>Helianthus</i>	83	<i>Sphaeralcea</i>	32	<i>Leontodon</i>	16	<i>Hemizonella</i>	8	<i>Damasonium</i>	4	<i>Allophylum</i>	2	<i>Corylus</i>	1		
<i>Vicia</i>	83	<i>Corcospis</i>	31	<i>Mertensia</i>	16	<i>Jasmea</i>	8	<i>Distichlis</i>	4	<i>Apium</i>	2	<i>Cypripedium</i>	1		
<i>Allium</i>	82	<i>Delphinium</i>	31	<i>Nothochelone</i>	16	<i>Lobularia</i>	8	<i>Draba</i>	4	<i>Arum</i>	2	<i>Elymus</i>	1		
<i>Camassia</i>	81	<i>Philadelphus</i>	31	<i>Stephanomeria</i>	16	<i>Pieris</i>	8	<i>Eruga</i>	4	<i>Bauhinia</i>	2	<i>Eremothera</i>	1		
<i>Spiraea</i>	81	<i>Thymus</i>	31	<i>Styrax</i>	16	<i>Robinia</i>	8	<i>Humeralis</i>	4	<i>Beta</i>	2	<i>Fagus</i>	1		
<i>Sidalcea</i>	80	<i>Vaccinium</i>	31	<i>Blepharipappus</i>	15	<i>Torella</i>	8	<i>Hesperis</i>	4	<i>Bromus</i>	2	<i>Filipendula</i>	1		
<i>Arctostaphylos</i>	79	<i>Acer</i>	30	<i>Crocidium</i>	15	<i>Weigela</i>	8	<i>Hibiscus</i>	4	<i>Camellia</i>	2	<i>Forsythia</i>	1		
<i>Taraxacum</i>	79	<i>Carduus</i>	30	<i>Echinacea</i>	15	<i>Zinnia</i>	8	<i>Hylotelephium</i>	4	<i>Cardionema</i>	2	<i>Fremontodendron</i>	1		
<i>Plagiobothrys</i>	78	<i>Frasera</i>	30	<i>Ilex</i>	15	<i>Abelia</i>	7	<i>Lavula</i>	4	<i>Castanea</i>	2	<i>Fuchsia</i>	1		
<i>Salvia</i>	77	<i>Amsinckia</i>	29	<i>Microseris</i>	15	<i>Agapanthus</i>	7	<i>Lagerstroemia</i>	4	<i>Celosia</i>	2	<i>Glechoma</i>	1		
<i>Hypochaeris</i>	76	<i>Iliamna</i>	29	<i>Pyrocoma</i>	15	<i>Amorpha</i>	7	<i>Layia</i>	4	<i>Centranthus</i>	2	<i>Gnaphalium</i>	1		
<i>Lotus</i>	75	<i>Menziesia</i>	29	<i>Trichostema</i>	15	<i>Aralia</i>	7	<i>Nasturtium</i>	4	<i>Daphne</i>	2	<i>Knautia</i>	1		
<i>Balsamorhiza</i>	74	<i>Nemophila</i>	29	<i>Borago</i>	14	<i>Pentaglottis</i>	7	<i>Oreoteca</i>	4	<i>Comandra</i>	2	<i>Grayia</i>	1		
<i>Syphocarpas</i>	74	<i>Polemonium</i>	29	<i>Colomia</i>	14	<i>Ipomopsis</i>	7	<i>Ozalis</i>	4	<i>Dipterostemon</i>	2	<i>Leucocrinum</i>	1		
<i>Lomatium</i>	72	<i>Mahonia</i>	28	<i>Erysimum</i>	14	<i>Conium</i>	7	<i>Mimulus</i>	4	<i>Crocus</i>	2	<i>Holcus</i>	1		
<i>Anaphalis</i>	71	<i>Viola</i>	28	<i>Sonchus</i>	14	<i>Cotinus</i>	7	<i>Pastinaca</i>	4	<i>Echinocystis</i>	2	<i>Leycesteria</i>	1		
<i>Erythranthe</i>	70	<i>Myosotis</i>	27	<i>Stellaria</i>	14	<i>Doronicum</i>	7	<i>Photinia</i>	4	<i>Euechephala</i>	2	<i>Limonium</i>	1		
<i>Agastache</i>	69	<i>Purshia</i>	27	<i>Tragopogon</i>	14	<i>Narthecium</i>	4	<i>Phyllodoce</i>	4	<i>Eucryphia</i>	2	<i>Linnaea</i>	1		
<i>Apocynum</i>	68	<i>Bistorta</i>	26	<i>Artemisia</i>	13	<i>Ficaria</i>	7	<i>Helleborus</i>	3	<i>Pestuca</i>	2	<i>Ludwigia</i>	1		
<i>Nepeta</i>	68	<i>Fagopyrum</i>	26	<i>Campanula</i>	13	<i>Ipomopsis</i>	7	<i>Pinus</i>	4	<i>Garrya</i>	2	<i>Lunaria</i>	1		
<i>Asclepias</i>	67	<i>Packera</i>	26	<i>Cercocarpus</i>	13	<i>Litium</i>	7	<i>Polygonum</i>	4	<i>Gratiola</i>	2	<i>Lycopus</i>	1		
<i>Mentha</i>	65	<i>Solanum</i>	26	<i>Chrysolepis</i>	13	<i>Olsynium</i>	7	<i>Scabiosa</i>	4	<i>Kniphofia</i>	2	<i>Machaeranthera</i>	1		
<i>Ranunculus</i>	65	<i>Verbena</i>	26	<i>Gutierrezia</i>	13	<i>Doronicum</i>	7	<i>Scutellaria</i>	4	<i>Lychnis</i>	2	<i>Magnolia</i>	1		
<i>Wyethia</i>	65	<i>Whipplea</i>	26	<i>Helianthella</i>	13	<i>Swainsona</i>	4	<i>Tithonia</i>	4	<i>Ligularia</i>	2	<i>Metaleuca</i>	1		
<i>Sisymbrium</i>	64	<i>Acimopsis</i>	25	<i>Oemleria</i>	13	<i>Ceratium</i>	7	<i>Impatiens</i>	3	<i>Liquoria</i>	2	<i>Mycelis</i>	1		
<i>Clarkia</i>	62	<i>Dalea</i>	25	<i>Phlox</i>	13	<i>Populus</i>	7	<i>Pinus</i>	4	<i>Physalis</i>	2	<i>Nicotiana</i>	1		
<i>Drymocallis</i>	62	<i>Doellingeria</i>	25	<i>Satureja</i>	13	<i>Reynoutria</i>	4	<i>Polygonatum</i>	3	<i>Podosphaera</i>	2	<i>Osteospermum</i>	1		
<i>Eschscholzia</i>	61	<i>Erodium</i>	25	<i>Sisyrinchium</i>	13	<i>Sabulina</i>	7	<i>Romanzoffia</i>	4	<i>Potentilla</i>	2	<i>Paeonia</i>	2		
<i>Gilia</i>	61	<i>Monarda</i>	25	<i>Anchusa</i>	12	<i>Scandix</i>	7	<i>Scabiosa</i>	4	<i>Pelargonium</i>	2	<i>Pedicularis</i>	1		
<i>Jacobaea</i>	61	<i>Polygonum</i>	25	<i>Argentina</i>	12	<i>Scutellaria</i>	7	<i>Smilacaria</i>	3	<i>Peltargon</i>	2	<i>Pedicularis</i>	1		
<i>Plectritis</i>	61	<i>Syringa</i>	25	<i>Spergularia</i>	12	<i>Veronica</i>	6	<i>Minuartia</i>	3	<i>Petunia</i>	2	<i>Phedimus</i>	1		
<i>Hackelia</i>	59	<i>Calendula</i>	24	<i>Teucrium</i>	12	<i>Buddleja</i>	6	<i>Phoenicaulis</i>	2	<i>Phedimus</i>	1	<i>Platycodon</i>	1		
<i>Rudebeckia</i>	59	<i>Cucurbita</i>	24	<i>Lithophragma</i>	12	<i>Cathla</i>	6	<i>Polygonatum</i>	3	<i>Physostegia</i>	2	<i>Pleiacanthus</i>	1		
<i>Lepidium</i>	59	<i>Agoseris</i>	22	<i>Navarretia</i>	12	<i>Cicuta</i>	6	<i>Impatiens</i>	3	<i>Omphalodes</i>	2	<i>Polystichum</i>	1		
<i>Crepis</i>	51	<i>Brodiaea</i>	22	<i>Opuntia</i>	12	<i>Ivesia</i>	3	<i>Montia</i>	3	<i>Podosphaera</i>	2	<i>Pteridium</i>	1		
<i>Lavandula</i>	51	<i>Diceria</i>	22	<i>Rupertia</i>	12	<i>Gentiana</i>	6	<i>Portulaca</i>	2	<i>Patrinia</i>	2	<i>Rhamnus</i>	1		
<i>Berberis</i>	50	<i>Perideridia</i>	22	<i>Eryngium</i>	12	<i>Hastingsia</i>	6	<i>Juniperus</i>	3	<i>Polygonatum</i>	2	<i>Sarcobatus</i>	1		
<i>Chaenactis</i>	50	<i>Malva</i>	22	<i>Hyacinthoides</i>	11	<i>Erybia</i>	12	<i>Lippia</i>	3	<i>Pelargonium</i>	2	<i>Scutellaria</i>	1		
<i>Hypericum</i>	49	<i>Cynoglossum</i>	21	<i>Navarretia</i>	11	<i>Sanicula</i>	3	<i>Minuartia</i>	3	<i>Petunia</i>	2	<i>Stokesia</i>	1		
<i>Gaillardia</i>	48	<i>Euphorbia</i>	21	<i>Arabis</i>	11	<i>Sanguisorba</i>	6	<i>Phoenicaulis</i>	2	<i>Petroselinum</i>	2	<i>Thlaspi</i>	1		
<i>Prunella</i>	48	<i>Euthamia</i>	21	<i>Chamaebatia</i>	11	<i>Scorzonera</i>	6	<i>Pyracantha</i>	3	<i>Physostegia</i>	2	<i>Trilepidium</i>	1		
<i>Veronica</i>	48	<i>Geum</i>	21	<i>Clematis</i>	11	<i>Lithodora</i>	6	<i>Securigera</i>	3	<i>Pseudognaphalium</i>	2	<i>Tordilis</i>	2		
<i>Madia</i>	46	<i>Bidens</i>	20	<i>Echium</i>	11	<i>Maianthemum</i>	6	<i>Stanleya</i>	2	<i>Pulmonaria</i>	2	<i>Streptanthus</i>	1		
<i>Lathyrus</i>	45	<i>Calyptegia</i>	20	<i>Eremogone</i>	11	<i>Noccea</i>	6	<i>Silybum</i>	3	<i>Saponaria</i>	1	<i>Tilia</i>	1		
<i>Taraxia</i>	45	<i>Frangula</i>	20	<i>Gaultheria</i>	11	<i>Poaa</i>	3	<i>Silene</i>	6	<i>Sarcobatus</i>	1	<i>Tiquilia</i>	1		
<i>Cichorium</i>	44	<i>Gutierrezia</i>	20	<i>Hyacinthoides</i>	11	<i>Petroselinum</i>	6	<i>Smelowskia</i>	3	<i>Silphium</i>	2	<i>Tolmiea</i>	1		
<i>Epilobium</i>	44	<i>Limnanthes</i>	20	<i>Ladeania</i>	11	<i>Polygonatum</i>	6	<i>Tephrosieris</i>	3	<i>Solidago</i>	2	<i>Trillium</i>	1		
<i>Arnica</i>	43	<i>Lithospermum</i>	20	<i>Lewisia</i>	11	<i>Pyrenopezia</i>	6	<i>Tribulus</i>	3	<i>Tulipa</i>	2	<i>Trifolium</i>	1		
<i>Astragalus</i>	43	<i>Rorippa</i>	20	<i>Micranthes</i>	11	<i>Quercus</i>	6	<i>Tropaeolum</i>	3	<i>Veratrum</i>	2	<i>Tiquilia</i>	1		
<i>Convallaria</i>	42	<i>Heuchera</i>	19	<i>Tetradymia</i>	11	<i>Vernonia</i>	6								

5 County records

Table 3: Number of bee specimens from each county, by genus. You may want to focus your sampling in under-sampled counties.

	Baker	Benton	Clackamas	Columbia	Coos	Crook	Curry	Deshutes	Douglas	Gilliam	Grant	Hamilton	Hood River	Jackson	Jefferson	Klamath	Lake	Linn	Lincoln	Malheur	Mariette	Morrow	Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wasco	Washington	Wheeler	Yamhill	TOTAL				
<i>Agapostemon</i>	26	65	47	1	66	1	53	3	126	6	10	77	363	3	65	21	40	31	3	176	67	19	41	10	18	1	72	28	20	26	92	74	87	2045			
<i>Andrena</i>	162	672	343	23	335	3	345	91	853	28	60	140	435	111	715	314	849	774	517	668	126	100	205	470	30	222	155	213	14	138	168	205	586	732	301	849	11952
<i>Anthidiellum</i>	1	4	0	0	0	0	0	23	0	13	3	0	7	7	0	11	3	28	26	48	16	1	1	0	5	0	0	1	0	0	6	8	2	5	0	219	
<i>Anthidium</i>	12	30	32	2	29	20	39	7	85	7	1	69	65	36	66	39	79	47	55	56	53	15	16	51	1	19	5	1	8	11	6	25	35	120	17	41	1200
<i>Anthophora</i>	38	6	9	1	7	3	125	24	527	18	32	88	351	19	205	55	107	183	410	56	1	14	232	15	20	0	0	20	0	19	29	92	57	33	90	11	2897
<i>Anthophorula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
<i>Apis</i>	1	77	42	16	9	5	5	36	30	49	1	4	1	79	34	3	58	58	5	23	29	37	15	73	0	99	26	17	4	34	8	2	127	103	6	181	1297
<i>Ashmeadiella</i>	40	0	0	0	0	0	0	44	1	132	7	2	33	182	33	63	28	44	53	70	16	0	38	30	0	3	0	11	0	5	3	16	9	2	19	1	885
<i>Atoposmia</i>	17	0	1	0	0	0	2	2	4	2	0	23	34	7	131	7	9	35	8	28	0	1	0	1	0	0	4	0	15	2	25	0	0	2	0	360	
<i>Biastes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	8	13	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
<i>Bombus</i>	266	571	401	217	382	66	284	486	813	277	17	437	886	561	738	291	283	1438	416	1370	681	549	150	651	31	547	90	56	266	258	238	356	279	925	176	659	16112
<i>Brachymerlecta</i>	4	0	0	0	0	0	0	12	5	58	2	0	25	23	2	98	0	26	37	112	9	0	1	14	4	1	0	0	0	3	1	1	0	1	7	0	446
<i>Callopis</i>	9	0	0	0	0	0	0	0	5	20	32	0	0	34	11	1	7	46	63	34	0	0	0	0	1	0	18	0	3	0	1	0	3	0	288		
<i>Ceratina</i>	21	492	137	6	170	5	89	18	212	149	2	55	48	152	311	47	475	115	77	722	76	36	7	355	3	271	296	29	9	42	30	26	71	604	55	836	6049
<i>Chelostoma</i>	21	0	0	0	0	0	2	4	113	3	0	16	12	0	14	2	4	17	9	1	0	2	1	0	0	0	0	16	0	0	2	5	9	0	1	0	254
<i>Coelioxys</i>	22	4	2	2	8	0	9	1	44	2	3	11	44	9	18	5	16	17	25	14	12	8	20	15	4	0	2	0	0	2	8	4	2	3	4	343	
<i>Colletes</i>	49	13	1	1	2	6	164	28	828	8	69	89	206	40	120	74	49	37	269	63	81	21	126	8	30	0	1	114	29	26	10	48	185	15	61	6	2877
<i>Diadasia</i>	107	1	0	0	0	0	8	1	19	14	0	31	63	3	25	0	46	44	7	0	0	1	246	1	0	0	0	11	0	1	12	9	0	1	42	2	695
<i>Dianthidium</i>	50	2	1	0	0	0	79	7	76	5	0	31	79	3	110	12	115	50	72	13	1	3	71	0	4	0	0	1	0	10	1	15	10	0	19	1	841
<i>Dioctrys</i>	1	0	0	0	0	0	1	0	4	0	0	2	4	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
<i>Dufourea</i>	4	0	0	0	0	0	0	0	48	3	0	9	46	121	65	15	35	26	3	29	0	11	0	5	0	0	0	0	4	9	3	3	0	0	20	1	460
<i>Epeorus</i>	4	1	0	1	0	8	1	1	19	0	3	3	12	0	17	2	10	4	6	8	5	1	2	2	0	0	0	4	3	1	2	0	1	3	2	0	126
<i>Eucera</i>	32	57	21	0	3	1	25	2	65	0	16	22	44	21	39	23	73	44	22	54	3	4	60	23	2	6	33	60	1	33	33	34	252	48	57	110	1323
<i>Habropoda</i>	9	1	1	0	0	8	6	6	104	5	1	19	6	52	1	34	31	27	51	38	0	21	0	0	0	1	6	38	0	1	4	101	0	3	0	576	
<i>Holcitis</i>	340	689	289	26	328	20	302	99	444	89	18	174	315	554	559	132	905	703	357	488	281	115	344	687	67	205	191	77	44	256	273	225	544	912	407	999	12458
<i>Heriades</i>	4	16	6	0	16	0	6	2	119	14	0	4	1	24	19	28	49	66	5	21	7	3	0	39	8	23	2	1	0	8	2	2	0	55	2	13	565
<i>Hesparapis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
<i>Holcopastes</i>	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
<i>Hoplitis</i>	52	14	9	1	6	0	35	3	100	11	3	95	214	65	86	150	222	49	73	51	3	37	22	49	5	5	6	35	1	20	33	74	40	59	21	10	1659
<i>Hyaleuc</i>	92	80	50	4	40	2	66	43	427	19	9	69	209	46	230	107	338	217	275	176	26	19	18	114	40	34	74	141	7	40	34	68	151	170	77	111	3623
<i>Lasioglossum</i>	319	955	340	67	302	26	607	95	945	118	52	297	678	197	724	258	965	704	555	736	698	157	438	646	53	234	329	268	161	199	191	282	514	1079	620	901	15710
<i>Megachile</i>	133	153	65	15	122	5	80	44	558	121	90	138	240	183	327	97	214	456	215	251	109	132	162	206	37	40	16	104	13	131	36	60	113	277	67	41	5051
<i>Melisctea</i>	0	0	0	1	0	0	7	0	10	0	0	10	9	0	1	6	16	5	17	1	0	0	5	0	0	0	2	0	3	5	9	18	1	9	1	136	
<i>Melissodes</i>	116	293	78	4	107	9	161	41	477	51	53	70	223	30	197	20	101	212	207	166	93	30	328	303	16	105	24	153	9	35	39	24	110	496	78	265	4724
<i>Micralictoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	
<i>Neolarrus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
<i>Nomada</i>	22	209	70	1	69	2	104	19	447	5	5	80	48	26	108	80	211	121	60	193	28	26	37	55	4	52	53	31	3	29	40	51	138	153	44	217	2841
<i>Normia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
<i>Oreopasites</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
<i>Osmia</i>	351	266	222	9	91	3	387	94	989	89	26	707	676	581	1054	656	1103	684	742	651	46	206	131	385	35	125	148	148	19	154	303	533	922	406	207	309	13458
<i>Panurginus</i>	18	42	60	3	6	0	35	15	1	7	65	6	38	104	15	0	321	6	13	82	42	22															

Table 4: Number of bee specimens from each county, by species

	Baker	Benton	Cleaveland	Clatsop	Columbia	Coos	Crook	Curry	Dodge	Douglas	Gilliam	Grant	Hamilton	Hood River	Jackson	Jefferson	Josephine	Klamath	Lake	Lane	Lincoln	Malheur	Marion	Morrow	Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wallowa	Wasco	Washington	Wheeler	Yamhill	Total	
<i>Agapostemon femoratus</i>	1	0	0	0	0	0	0	0	24	0	0	0	0	0	2	0	0	0	118	0	0	0	0	0	0	0	1	0	0	0	0	1	540				
<i>Agapostemon melliventris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21					
<i>Agapostemon subtilior</i>	15	2	14	0	7	0	11	1	64	0	2	27	87	0	53	4	14	13	106	10	20	0	43	21	13	16	4	3	0	28	1	1	0	13	25	35	653
<i>Agapostemon virescens</i>	0	62	8	0	22	0	0	0	1	1	0	1	2	0	0	0	10	2	0	0	20	2	2	43	1	22	5	2	0	11	0	11	5	63	44	37	379
<i>Andrena amphibola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7				
<i>Andrena angustitarsata</i>	0	0	1	0	0	0	0	5	0	0	0	0	0	1	0	0	0	0	2	1	3	7	0	0	0	0	0	0	0	0	0	1	32				
<i>Andrena annectens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3				
<i>Andrena astragali</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	7				
<i>Andrena barbilabris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena birtwelli</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3				
<i>Andrena candida</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	3	2	0	0	0	0	0	0	0	0	0	0	0	13				
<i>Andrena candidiformis</i>	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	3	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	13				
<i>Andrena cerasifolii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena chapmanae</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena chlorogaster</i>	0	0	0	0	0	1	0	1	0	3	0	0	0	1	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	21				
<i>Andrena cleodora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena commoda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena costellensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena crataegi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena cressonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	14				
<i>Andrena cupreotincta</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	4	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	15				
<i>Andrena cyanophila</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena evoluta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9				
<i>Andrena fuscicauda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena hippotes</i>	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	8				
<i>Andrena illinoiensis</i>	0	0	2	0	0	0	0	2	0	2	0	0	1	12	0	0	0	1	4	0	1	0	0	0	21	0	2	0	0	0	0	0	0	55			
<i>Andrena lawrencei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena macounipennis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3				
<i>Andrena medionitens</i>	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
<i>Andrena melanochroa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena merriami</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena microchlora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	14				
<i>Andrena miranda</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena miserabilis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena nevadensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena nigrocaerulea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28				
<i>Andrena nivalis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena nothocalaidis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena pallidifovea</i>	0	0	2	0	0	0	1	0	0	2	4	0	0	2	1	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25				
<i>Andrena parnemata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena perplexa</i>	0	0	3	2	0	0	0	0	0	0	0	0	0	3	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29				
<i>Andrena piperi</i>	1	0	0	0	0	0	0	0	0	45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59				
<i>Andrena prunorum</i>	13	32	2	0	8	0	4	5	52	0	5	6	17	0	33	12	9	28	11	9	5	1	7	18	3	11	5	11	1	31	8	8	16	16	31	426	
<i>Andrena salicifloris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Andrena scura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	44				
<i>Andrena sladeni</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4				
<i>Andrena stratiotis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3				
<i>Andrena topazana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5				
<i>Andrena transigra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4				
<i>Andrena trevoris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena vicina</i>	0	0	8	0	2	0	0	0	0	11	0	0	0	0	3	0	1	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	49				
<i>Andrena vicinoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3				
<i>Andrena w-scripta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Andrena walleyi</i>	0																																				

Table 4: Number of bee specimens from each county, by species (continued)

	Baker	Benton	Clatskanie	Columbia	Cross	Crook	Douglas	Grant	Hood River	Jackson	Jefferson	Josephine	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow	Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wasco	Washington	Wheeler	Yamhill	TOTAL						
<i>Anthophora affabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1							
<i>Anthophora albata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5							
<i>Anthophora bomboides</i>	5	0	3	0	1	0	1	3	1	0	0	4	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5							
<i>Anthophora californica</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2							
<i>Anthophora cratichii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1							
<i>Anthophora curta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9							
<i>Anthophora edwardsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2							
<i>Anthophora exigua</i>	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7							
<i>Anthophora maculifrons</i>	0	0	0	0	0	0	0	0	25	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32							
<i>Anthophora pacifica</i>	10	2	0	0	0	0	9	0	11	0	0	4	3	0	0	2	20	6	37	3	0	0	0	0	0	0	1	4	12	0							
<i>Anthophora peritoma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1							
<i>Anthophora porterae</i>	1	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10							
<i>Anthophora terminalis</i>	0	0	0	0	0	0	0	0	5	2	0	2	7	9	11	0	0	5	1	0	0	2	0	0	0	0	0	0	0	50							
<i>Anthophora urbana</i>	7	1	1	0	0	0	36	3	199	7	18	34	114	1	139	14	45	66	205	33	0	10	131	9	6	0	0	2	0	4	0	1	28	1	1119		
<i>Anthophora ursina</i>	2	0	0	0	0	0	4	0	2	0	0	4	0	0	1	0	0	0	35	0	0	0	2	0	0	1	8	6	0	0	0	65					
<i>Anthophorula chionura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	38							
<i>Apis mellifera</i>	1	77	42	16	9	5	5	36	30	49	1	4	1	79	34	3	58	58	5	23	29	37	15	73	0	99	26	17	4	34	8	2	127	103	6	181	1297
<i>Ashmeadiella atlantae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4							
<i>Ashmeadiella buconis</i>	6	0	0	0	0	0	11	0	6	0	0	7	11	0	0	0	1	4	13	0	0	1	11	0	0	0	0	0	0	6	0	77					
<i>Ashmeadiella cactorum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0	0	0	4	0	0	0	0	0	0	10							
<i>Ashmeadiella californica</i>	3	0	0	0	0	0	0	5	0	0	2	0	6	23	15	13	1	4	2	8	2	0	19	0	0	0	0	0	0	0	0	103					
<i>Ashmeadiella cubiceps</i>	2	0	0	0	0	0	1	0	1	0	0	3	8	5	6	0	0	0	4	1	0	0	0	0	0	0	0	0	0	31							
<i>Ashmeadiella difigita</i>	0	0	0	0	0	0	0	0	1	0	0	0	23	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	31							
<i>Ashmeadiella foreata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1							
<i>Ashmeadiella foxiella</i>	1	0	0	0	0	0	6	0	0	0	1	3	0	1	0	0	4	0	1	4	0	0	3	0	0	0	0	0	0	26							
<i>Ashmeadiella propodis</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3							
<i>Ashmeadiella timberlakei</i>	1	0	0	0	0	0	0	0	10	0	0	4	4	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	1	26							
<i>Atoposmia obiecta</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	1	5	3	0	0	0	1	0	0	0	0	0	0	0	0	0	17							
<i>Atoposmia anthodysa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3							
<i>Atoposmia copelandica</i>	7	0	0	0	0	0	0	0	1	2	1	0	13	6	0	5	2	3	6	2	0	0	0	1	0	0	0	0	0	64							
<i>Atoposmia elongata</i>	4	0	0	0	0	0	0	0	0	0	0	1	1	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62							
<i>Atoposmia oregonia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	10							
<i>Atoposmia triodonta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	5							
<i>Biastes fulviventris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1							
<i>Bombus appositus</i>	8	6	2	0	1	0	0	0	2	4	0	1	13	16	6	0	0	3	8	4	1	6	0	27	0	2	1	0	0	7	5	7	153				
<i>Bombus caliginosus</i>	0	28	3	21	12	14	0	37	2	34	0	0	0	1	8	2	3	10	0	139	94	3	0	19	0	32	14	0	61	0	0	0	35	629			
<i>Bombus centralis</i>	56	0	0	0	0	0	63	0	40	0	6	67	141	0	0	7	0	37	65	0	0	0	13	0	6	0	0	14	0	44	34	46	11	1	55	0	706
<i>Bombus fervidus</i>	18	60	5	26	34	1	24	6	14	8	2	18	147	25	3	5	12	14	30	77	65	16	24	79	2	7	4	1	8	20	9	16	23	103	23	95	1024
<i>Bombus flavifrons</i>	6	32	1	2	0	0	0	8	4	3	0	10	1	27	40	1	8	35	4	78	11	42	0	13	1	0	1	0	10	4	6	8	1	12	0	3	372
<i>Bombus flavidus</i>	4	51	88	18	81	1	4	0	3	12	0	19	13	59	35	2	8	49	14	198	21	78	0	15	1	150	9	0	8	50	45	3	91	0	25	1163	
<i>Bombus griseocollis</i>	36	20	2	0	9	0	3	0	38	0	6	10	6	1	5	27	2	5	4	7	0	1	30	72	1	1	2	24	0	41	5	12	27	21	19	27	464
<i>Bombus huntii</i>	35	0	0	0	0	0	0	40	0	128	0	1	27	196	0	1	16	2	24	45	0	0	63	1	3	0	1	4	0	17	16	4	4	0	3	631	
<i>Bombus impatiens</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1							
<i>Bombus insularis</i>	18	0	0	0	1	0	0	0	2	1	0	6	20	8	49	0	3	72	22	1	0	1	0	0	0	0	0	0	7	0	0	0	0	229			
<i>Bombus melanopygus</i>	0	77	50	13	25	15	3	73	21	6	0	12	29	26	17	160	0	74	47	25	0	41	0	75	2	0	9	0	1	3	2	56	0	15	877		
<i>Bombus mixtus</i>	10	118	98	87	95	7	4	51	15	26	0	14	3	82	99	41	101	58	2	308	182	69	1	111	4	114	20	0	82	11	19	46	2	215	9	129	2233
<i>Bombus morrisoni</i>	0	0	0	0	0	0	3	0	29	0	0	2	0	0	3	0	4	4	4	1	0	0	10	0	0	0	0	0	0	0	1	0	0	57			
<i>Bombus nevadensis</i>	6	1	2	0	2	0	8	0	12	0	0	2	17	1	4	5	0	1	1	0	0	0	5	3	1	0	0	4	0	21	10	10	10	8	3	147	
<i>Bombus occidentalis</i>	1	0	3	0	0	0	0	0	0	7	1	0	2	4	3	1	1	0	10	8	2	0	20	0	0	0	0	0	0	1	8	0	0	0	72		
<i>Bombus rufocinctus</i>	0	1	0	1	4																																

Table 4: Number of bee specimens from each county, by species (*continued*)

Table 4: Number of bee specimens from each county, by species (continued)

	Baker	Benton	Clatskanie	Columbia	Cross	Crook	Curry	Douglas	Gilliam	Grant	Hood River	Harney	Jackson	Jefferson	Josephine	Klamath	Lane	Linn	Malheur	Marion	Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wasco	Washington	Wheeler	Yamhill	TOTAL									
<i>Eucera edwardsii</i>	6	5	3	0	0	0	2	0	7	0	0	6	4	1	0	1	8	30	0	1	0	4	0	3	0	1	6	5	5	33	20	5	22	200						
<i>Eucera frater</i>	3	16	0	0	3	1	4	0	1	0	0	2	3	0	0	2	10	5	1	8	30	0	1	0	4	0	3	0	1	6	5	5	33	20	5	22	200			
<i>Eucera fulvitorsis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7		
<i>Eucera hirdi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
<i>Eucera lunata</i>	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	23		
<i>Eucera virgata</i>	1	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	24			
<i>Habropoda cineraria</i>	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29			
<i>Habropoda danneri</i>	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	2	1	4	3	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78			
<i>Habropoda depressa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	12	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	24			
<i>Habropoda miserabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34			
<i>Habropoda tristissima</i>	9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25			
<i>Halictus confusus</i>	2	25	36	3	39	0	11	10	4	8	0	3	13	4	42	3	13	14	5	18	22	14	0	25	0	45	27	0	6	8	4	4	0	86	1	40	535			
<i>Halictus farinosus</i>	13	69	2	0	2	4	24	29	29	30	3	32	38	38	45	57	90	124	159	78	1	3	14	90	8	3	15	4	1	78	4	29	53	50	22	73	1314			
<i>Halictus ligatus</i>	221	306	116	4	91	5	94	0	99	21	7	59	105	19	185	15	474	324	18	148	73	10	227	367	41	58	63	34	12	72	105	60	176	340	202	395	4546			
<i>Halictus rubicundus</i>	7	73	22	14	37	3	12	25	22	3	0	6	18	2	68	7	55	21	13	96	93	16	13	50	2	22	27	5	20	17	10	23	10	109	11	64	996			
<i>Halictus tripartitus</i>	89	169	81	2	97	5	151	28	272	13	2	64	124	65	174	45	254	84	152	102	1	66	70	134	14	30	51	19	0	44	98	89	188	234	154	363	3528			
<i>Halictus virgatulus</i>	1	1	0	1	0	0	1	0	0	0	0	0	411	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420			
<i>Heriades carinata</i>	0	2	0	0	1	0	0	0	27	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55				
<i>Heriades carinatus</i>	0	4	0	0	1	0	0	0	15	1	0	0	0	0	0	0	0	13	1	0	1	0	0	0	0	24	0	3	2	0	0	0	0	0	0	0	270			
<i>Heriades cressoni</i>	4	2	0	0	0	0	0	1	25	4	0	2	0	0	1	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42				
<i>Heriades variolosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
<i>Heriades carinata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6			
<i>Holcopasites pulchellus</i>	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
<i>Hoplitis albifrons</i>	5	0	0	0	1	0	3	0	1	3	0	8	2	3	11	4	12	8	14	3	0	0	3	2	1	1	0	0	0	0	0	0	0	0	0	0	90			
<i>Hoplitis boharti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24			
<i>Hoplitis emarginata</i>	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	11	0	0	0	0	9	0	15	0	0	0	0	0	0	0	0	0	0	0	38				
<i>Hoplitis fulgidula</i>	3	0	0	0	0	0	0	3	0	7	2	1	10	47	0	8	6	23	3	20	4	0	2	0	1	2	0	0	0	0	0	0	0	0	0	3	152			
<i>Hoplitis grinnelli</i>	0	6	0	0	0	0	0	0	4	0	0	0	2	0	2	1	4	2	0	5	0	0	2	3	1	0	1	9	0	1	0	0	0	0	0	3	51			
<i>Hoplitis hypocrita</i>	3	1	0	0	0	0	0	6	0	14	0	0	3	6	0	2	6	5	0	2	2	0	0	10	6	0	0	2	2	0	1	0	0	0	0	5	1	1	2	80
<i>Hoplitis louiseae</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	8	0	2	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23			
<i>Hoplitis orthognatha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10			
<i>Hoplitis plagiostoma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
<i>Hoplitis producta</i>	1	7	1	0	1	0	2	1	2	0	0	2	3	2	2	8	9	1	2	2	0	8	1	18	0	0	3	6	0	0	0	0	0	0	0	0	290			
<i>Hoplitis rematula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9				
<i>Hoplitis sambuci</i>	1	0	0	0	0	0	2	0	1	2	0	1	3	0	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43				
<i>Hoplitis uvulalis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
<i>Hylaeus Mesiilacae</i>	11	1	0	0	3	0	1	0	15	1	0	0	10	0	3	2	6	0	12	0	0	0	4	1	2	2	0	0	0	0	0	0	0	0	0	2	10	6	92	
<i>Hylaeus basalis</i>	0	0	1	0	0	0	0	0	6	0	0	3	0	0	6	7	6	18	10	3	0	2	0	1	0	0	0	3	0	0	0	0	0	0	0	0	67			
<i>Hylaeus mesililacae</i>	14	9	0	0	7	1	1	0	50	0	0	4	27	2	9	5	16	35	1	6	1	0	6	25	0	7	13	5	0	11	2	0	0	0	0	0	0	0	57	
<i>Hylaeus nunenmacheri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21			
<i>Lasioglossum aberrans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57			
<i>Lasioglossum albitinneum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7			
<i>Lasioglossum albiguttatum</i>	2	0	1	0	0	0	0	1	49	0	0	6	10	3	11	7	5	8	10	12	0	3	2	0	0	0	0	4	2	2	0	0	0	0	143					
<i>Lasioglossum argemonis</i>	0	1	0																																					

Table 4: Number of bee specimens from each county, by species (*continued*)

	Baker	Benton	Clackamas	Columbia	Coos	Crook	Curry	Dodge	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson	Josephine	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow	Multnomah	Polk	Sherman	Tillamook	Umatilla	Wasco	Washington	Wheeler	Yamhill	Total			
<i>Lasioglossum macropinense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Lasioglossum macropodopson</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Lasioglossum marinense</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Lasioglossum megastictum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<i>Lasioglossum melleps</i>	0	0	0	0	0	0	0	0	1	0	0	5	2	0	0	0	0	15	1	13	16	3	2	0	0	0	0	0	0	0	0	0	0					
<i>Lasioglossum nevadense</i>	0	0	1	0	0	0	3	0	28	0	0	5	2	0	2	0	5	1	2	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0				
<i>Lasioglossum nigrum</i>	0	1	1	0	3	0	2	0	8	6	0	1	4	3	16	3	6	5	6	14	1	8	0	4	0	0	0	0	0	0	0	0	4	112				
<i>Lasioglossum novascotiae</i>	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5				
<i>Lasioglossum occultum</i>	0	15	13	0	5	6	0	4	10	0	0	0	0	1	8	2	3	8	1	17	14	3	0	14	0	4	5	0	10	0	0	0	5	25	0	60	233	
<i>Lasioglossum olympiae</i>	0	208	37	1	10	0	7	1	0	9	0	3	0	7	64	6	5	45	31	59	6	15	0	66	0	6	59	0	0	3	25	3	28	95	0	108	907	
<i>Lasioglossum orthocarpi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8			
<i>Lasioglossum ovaliceps</i>	2	0	0	0	1	0	4	0	12	0	0	1	3	3	7	2	5	2	11	0	0	1	0	0	1	4	0	0	0	0	0	0	0	1	2	1	70	
<i>Lasioglossum pacatum</i>	0	0	0	0	0	1	0	1	0	2	0	1	2	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	16			
<i>Lasioglossum pacificum</i>	0	13	17	0	6	1	0	4	0	1	0	0	0	3	3	0	7	2	0	23	28	0	0	19	0	5	1	0	5	0	0	0	7	28	0	16	189	
<i>Lasioglossum pavonatum</i>	0	0	0	0	0	0	5	0	8	0	7	0	0	0	1	0	1	0	0	15	44	0	0	0	0	0	0	0	0	0	0	0	0	0	95			
<i>Lasioglossum prasinogaster</i>	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	8				
<i>Lasioglossum pruinosum</i>	1	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	2	0	0	0	0	3	10	5	1	0	0	8	0	4	0	0	5	0	46		
<i>Lasioglossum pulveris</i>	14	0	0	0	0	0	0	40	0	79	0	7	35	81	0	2	24	1	6	14	1	0	0	58	1	4	0	0	50	0	17	11	10	25	2	151	1	634
<i>Lasioglossum punctatoventre</i>	5	0	0	0	0	0	0	0	0	1	1	0	2	2	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18			
<i>Lasioglossum quebecense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	4	2	1	0	0	0	0	0	0	0	0	0	0	0	18			
<i>Lasioglossum robustum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28			
<i>Lasioglossum rudivisus</i>	3	14	5	0	6	0	4	3	7	2	0	3	19	1	17	3	34	8	5	31	2	6	0	10	1	5	28	0	1	2	2	0	2	11	11	47	293	
<i>Lasioglossum sandhousei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22			
<i>Lasioglossum sedi</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10			
<i>Lasioglossum sequiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14		
<i>Lasioglossum sisymbrii</i>	19	8	9	0	4	0	12	0	33	0	0	10	40	6	11	30	5	7	24	22	1	2	36	26	2	3	10	0	0	7	9	18	9	27	3	35	428	
<i>Lasioglossum regulariforme</i>	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14			
<i>Lasioglossum tenax</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8			
<i>Lasioglossum testaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
<i>Lasioglossum timberlakei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
<i>Lasioglossum titus</i>	1	251	64	8	31	0	12	4	1	1	0	33	26	0	44	0	64	65	15	58	20	6	12	191	5	4	56	1	2	1	15	11	8	206	8	101	1325	
<i>Lasioglossum trizonatum</i>	0	0	0	0	0	0	8	0	3	0	0	3	6	0	0	0	3	3	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39			
<i>Lasioglossum tuolumnense</i>	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19			
<i>Lasioglossum villosulum</i>	0	60	40	18	45	0	0	0	0	7	0	0	0	4	0	0	1	0	0	0	38	91	14	0	65	0	27	6	1	33	0	0	0	18	62	0	75	605
<i>Lasioglossum yukonae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
<i>Lasioglossum zephyrus</i>	0	1	0	0	0	0	2	0	0	2	0	0	3	1	0	0	0	0	0	6	23	0	1	9	0	2	3	0	0	1	0	0	0	0	1			
<i>Lasioglossum zonulorum</i>	0	9	6	10	14	2	0	5	0	1	0	0	0	0	2	0	0	0	0	18	37	0	0	8	0	7	2	0	0	0	0	0	0	0	2	137		
<i>Megachile addenda</i>	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7			
<i>Megachile angelarum</i>	0	51	9	0	6	0	14	0	53	1	3	3	1	9	10	2	10	17	6	22	0	15	0	31	2	15	1	2	0	4	0	0	0	0	24	6	4	321
<i>Megachile anograe</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11			
<i>Megachile apicalis</i>	5	1	0	0	0	0	1	0	10	1	5	1	2	5	16	11	3	4	0	5	0	0	0	3	0	1	0	0	0	0	0	0	0	0	133			
<i>Megachile brevis</i>	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	17			
<i>Megachile cunctularia</i>	0	2	0	0	0	0	0	1	3	1	0	1	1	0	3	0	0	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	24			
<i>Megachile cleonis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
<i>Megachile coquilletti</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10			
<i>Megachile fidela</i>	0	6	0	0	1	0	4	2	0	6	0	1	3	4	20	0	11	16	8	17	1	5	0	15	0	2	0	0	0	0	0	0	0	1	0	3	126	
<i>Megachile frigida</i>	0	0	0	0	0	0	0	0	2	0	0	3	0	1	0	0	1	0	2	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	15			
<i>Megachile gemula</i>	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	2	16		
<i>Megachile gentilis</i>	0	1	0	0	0	0	0	0	4	0	0	0	0	0	0	1	0	1	1	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	14			
<i>Megachile gravita</i>	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	12	0																					

Table 4: Number of bee specimens from each county, by species (continued)

	Baker	Benton	Clackamas	Columbia	Cross	Crook	Douglas	Grant	Harney	Hood River	Jackson	Jefferson	Josephine	Klamath	Lake	Lane	Linn	Malheur	Marion	Morrow	Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wasco	Washington	Wheeler	Yamhill	TOTAL					
<i>Melecta separata</i>	0	0	0	0	0	3	0	4	0	0	1	4	0	1	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	1	35					
<i>Melecta thoracica</i>	0	0	0	0	0	1	0	4	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8						
<i>Melissodes agilis</i>	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	8					
<i>Melissodes bimacris</i>	0	0	0	0	0	1	0	6	0	2	0	0	0	0	0	0	3	1	0	8	1	0	0	5	0	0	0	0	0	1	38					
<i>Melissodes clarkiae</i>	0	5	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6					
<i>Melissodes communis</i>	0	0	0	1	0	0	0	0	7	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	10					
<i>Melissodes dagosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5					
<i>Melissodes lupinus</i>	1	115	8	0	1	0	3	3	2	0	0	2	3	0	2	0	3	13	8	45	2	6	2	152	2	0	8	0	0	0	1	2	72	5	42	503
<i>Melissodes lustrus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1					
<i>Melissodes metenus</i>	2	7	1	0	0	0	25	3	0	0	0	5	1	0	2	0	0	3	2	13	2	0	0	10	0	0	0	0	0	0	8	0	3	87		
<i>Melissodes microstictus</i>	2	8	1	0	9	0	15	4	29	8	0	21	3	5	25	0	33	3	3	5	6	5	0	10	0	6	0	0	4	0	0	0	5	0	11	221
<i>Melissodes pallidostigatus</i>	0	12	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15				
<i>Melissodes rivalis</i>	1	0	0	0	0	0	0	1	0	10	0	4	1	2	1	0	0	0	1	1	7	4	0	1	1	1	0	0	0	0	1	1	39			
<i>Melissodes robustior</i>	0	8	0	0	3	0	0	0	17	0	1	0	2	0	0	0	3	0	9	0	0	0	19	2	14	0	0	0	1	0	0	0	21	0	1	101
<i>Melissodes semilupinus</i>	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	16				
<i>Microlictoides ruficaudus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
<i>Neocarra vigilans</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Nomia melanander</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5				
<i>Osmia aglaia</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
<i>Osmia albilateralis</i>	1	0	0	0	0	0	0	0	1	0	0	0	1	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
<i>Osmia atriventris</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
<i>Osmia atrocyanea</i>	7	3	0	0	1	0	3	0	1	0	1	4	4	4	0	9	5	8	2	0	6	0	1	0	10	0	0	1	0	3	1	2	0	1	7	87
<i>Osmia bakeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
<i>Osmia bella</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7		
<i>Osmia brevis</i>	33	0	1	0	0	0	2	0	5	0	0	18	5	0	9	8	9	4	3	0	0	0	2	1	0	0	0	0	1	5	6	0	0	1	113	
<i>Osmia bruneri</i>	5	0	0	0	0	0	2	1	10	0	1	17	22	0	11	3	7	0	17	0	0	0	4	0	3	0	4	3	0	5	0	119				
<i>Osmia buechala</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12				
<i>Osmia caeruleocephala</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1				
<i>Osmia californica</i>	1	0	0	0	0	0	8	0	1	0	0	3	3	0	1	0	0	0	6	0	0	0	2	0	0	0	0	0	0	0	0	27				
<i>Osmia calla</i>	2	0	0	0	0	0	5	0	15	0	0	26	17	0	5	2	0	4	14	0	0	0	1	0	0	0	0	0	0	0	0	1	0	96		
<i>Osmia carra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
<i>Osmia carfornensis</i>	0	0	0	0	0	0	1	0	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9		
<i>Osmia cobaltina</i>	0	0	0	0	0	0	0	3	0	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16			
<i>Osmia coloradensis</i>	1	0	0	0	1	0	5	0	1	0	0	4	0	0	4	1	9	1	5	1	0	1	0	3	0	1	0	3	0	0	0	2	1	45		
<i>Osmia cornifrons</i>	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	7	2	0	0	0	0	0	0	26			
<i>Osmia cyanella</i>	15	3	0	0	0	0	9	1	4	2	0	3	0	0	8	5	10	1	0	5	0	1	0	1	0	0	0	2	0	2	1	4	3	82		
<i>Osmia densa</i>	7	1	1	0	0	0	12	1	7	4	0	8	2	2	2	16	7	90	3	8	3	0	4	0	3	0	0	0	5	7	8	1	0	2	202	
<i>Osmia dolorosa</i>	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6			
<i>Osmia edtnae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
<i>Osmia enixa</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	6			
<i>Osmia exigua</i>	3	0	0	0	0	0	1	1	0	2	0	5	0	0	3	4	4	4	7	2	0	0	0	3	0	0	0	0	0	0	0	0	1	0	44	
<i>Osmia gabrieli</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<i>Osmia gaudiosa</i>	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	9		
<i>Osmia gitarrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
<i>Osmia glauca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8		
<i>Osmia integrata</i>	0	0	0	0	0	0	1	0	7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9		
<i>Osmia inurbana</i>	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
<i>Osmia juxta</i>	3	0	0	0	0	0	0	0	2	0	0	0	0	0	8	5	7	5	0	1	0	3	0	0	0	0	0	0	0	0	0	0	1	39		
<i>Osmia kincaidii</i>	5	0	0	0	0	0	5	0	18	0	0	3	10																							

Table 4: Number of bee specimens from each county, by species (continued)

	Baker	Benton	Clackamas	Columbia	Crook	Curry	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Josephine	Klamath	Lane	Linn	Malheur	Marion	Morrow	Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wallowa	Wasco	Washington	Wheeler	Yamhill	TOTAL						
<i>Osmia rostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1							
<i>Osmia sananofae</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1							
<i>Osmia similima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2							
<i>Osmia sladeni</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Osmia tanneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Osmia tersula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Osmia texana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Osmia tristella</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6						
<i>Osmia vandykei</i>	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4						
<i>Osmia visenda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Peponapis pruinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3						
<i>Perdita albipennis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4						
<i>Perdita nevadensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Protosmia rubifloris</i>	0	17	23	0	19	0	0	1	0	0	0	0	0	11	155	2	169	10	2	63	0	0	0	16	0	16	12	0	0	0	0	24	39	0	77	656	
<i>Pseudanthidium nanum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	16				
<i>Sphecodes arvensiformis</i>	0	1	0	1	5	0	0	0	1	0	0	1	1	0	1	0	0	1	3	0	1	1	0	1	0	0	1	1	2	25							
<i>Sphecodes davisi</i>	0	0	4	0	3	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12						
<i>Sphecodes kincaidii</i>	0	0	1	0	0	4	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	2						
<i>Sphecodes olympicus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Sphecodes pecosensis</i>	0	0	0	0	0	0	0	0	0	7	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15						
<i>Stelis ashmeadiellus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2						
<i>Stelis carinifex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2						
<i>Stelis laticincta</i>	0	4	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	7	0	4	0	0	0	0	0	0	0	0	29						
<i>Stelis monticola</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6						
<i>Stelis rubi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Stelis submarginalis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	6						
<i>Trachusa timberlakei</i>	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1	0	0	3	0	0	2	0	0	0	0	0	0	0	0	0	14						
<i>Triopeltalus argyreus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2						
<i>Triopeltalus californicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Triopeltalus concavus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4						
<i>Triopeltalus helianthi</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2						
<i>Triopeltalus heterurus</i>	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	11						
<i>Triopeltalus lunatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1						
<i>Triopeltalus melanarius</i>	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0	0	0	20						
<i>Triopeltalus paenpectoralis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	9						
<i>Triopeltalus utahensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10						
<i>Xylocopa californica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	12	1	0	0	0	0	0	0	0	0	0	0	0	21						
<i>Xylocopa tabaniformis</i>	0	0	0	0	0	1	1	0	0	8	0	0	0	17	0	55	17	1	16	0	0	0	0	0	0	0	0	0	0	116							
<i>Xylocopa virginica</i>	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7						
<i>Zacosmia maculata</i>	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5						
TOTAL	1265	3073	1104	312	1105	115	1463	752	3362	614	109	1356	2923	1462	2979	867	3288	3371	2500	3314	1455	964	1458	2929	214	1320	916	408	415	984	701	909	1375	3459	1299	3669	57809

Table 5: Your determination accuracy in 2023.

Taxon
No specimens identified

6 Taxonomic Accuracy, 2023

In 2023, you did not have specimens to identify.

In 2023, volunteers from the Oregon Bee Atlas project identified 45.4 % (9918) of the 21864 bee specimens to the level of genus, with an average accuracy of 94.6%. Volunteers also identified 0% (0) of the specimens to species level, and had an average accuracy of NaN% (see Table 6). Nicely done!

Table 6: Determination accuracy for all volunteers in 2023.

	Taxon	Specimens ID-ed	Correct ID	% Correct
Family				
	<i>Andrenidae</i>	1171	1121	95.7
	<i>Apidae</i>	3080	3039	98.7
	<i>Colletidae</i>	422	396	93.8
	<i>Halictidae</i>	2297	2266	98.7
	<i>Megachilidae</i>	3020	2970	98.3
	<i>Melittidae</i>	4	1	25.0
	<i>TOTAL</i>	9994	9793	98.0
Genus				
	<i>Agapostemon</i>	86	86	100.0
	<i>Andrena</i>	682	662	97.1
	<i>Anthidiellum</i>	30	7	23.3
	<i>Anthidium</i>	125	124	99.2
	<i>Anthophora</i>	198	184	92.9
	<i>Apis</i>	85	85	100.0
	<i>Ashmeadiella</i>	58	47	81.0
	<i>Atoposmia</i>	46	44	95.7
	<i>Biastes</i>	3	3	100.0
	<i>Bombus</i>	1671	1670	99.9
	<i>Brachymelecta</i>	5	5	100.0
	<i>Calliopsis</i>	21	10	47.6
	<i>Ceratina</i>	273	268	98.2
	<i>Chelostoma</i>	27	24	88.9
	<i>Coelioxys</i>	43	42	97.7
	<i>Colletes</i>	265	245	92.5
	<i>Diadasia</i>	71	59	83.1
	<i>Dianthidium</i>	97	78	80.4
	<i>Dioxytis</i>	2	1	50.0
	<i>Dufourea</i>	53	52	98.1
	<i>Epeolus</i>	10	9	90.0
	<i>Eucera</i>	60	57	95.0
	<i>Habropoda</i>	49	47	95.9
	<i>Halictus</i>	902	862	95.6
	<i>Heriades</i>	40	29	72.5
	<i>Hesperapis</i>	4	1	25.0
	<i>Holcopasites</i>	1	1	100.0
	<i>Hoplitis</i>	231	195	84.4
	<i>Hylaeus</i>	157	151	96.2

Table 6: Determination accuracy for all volunteers in 2023. (*continued*)

Taxon	Specimens ID-ed	Correct ID	% Correct
<i>Lasioglossum</i>	1163	1101	94.7
<i>Megachile</i>	562	546	97.2
<i>Melecta</i>	21	20	95.2
<i>Melissodes</i>	370	322	87.0
<i>Micralictoides</i>	14	14	100.0
<i>Neolarra</i>	3	3	100.0
<i>Nomada</i>	207	201	97.1
<i>Osmia</i>	1670	1639	98.1
<i>Panurginus</i>	140	120	85.7
<i>Perdita</i>	319	249	78.1
<i>Protandrena</i>	8	7	87.5
<i>Protosmia</i>	48	33	68.8
<i>Pseudoanthidium</i>	4	1	25.0
<i>Sphecodes</i>	79	65	82.3
<i>Stelis</i>	31	21	67.7
<i>Trachusa</i>	6	5	83.3
<i>Triepeolus</i>	43	41	95.3
<i>Xylocopa</i>	10	9	90.0
TOTAL	9993	9445	94.5
Species			
<i>Anthidiellum robertsoni</i>	7	7	100.0
<i>Apis mellifera</i>	68	68	100.0
<i>Bombus appositus</i>	8	7	87.5
<i>Bombus caliginosus</i>	32	24	75.0
<i>Bombus centralis</i>	43	38	88.4
<i>Bombus fervidus</i>	43	43	100.0
<i>Bombus flavidus</i>	23	22	95.7
<i>Bombus flavifrons</i>	57	54	94.7
<i>Bombus frigidus</i>	3	0	0.0
<i>Bombus griseocollis</i>	46	46	100.0
<i>Bombus huntii</i>	50	46	92.0
<i>Bombus insularis</i>	9	7	77.8
<i>Bombus kirbiellus</i>	1	0	0.0
<i>Bombus melanopygus</i>	42	20	47.6
<i>Bombus mixtus</i>	139	121	87.1
<i>Bombus morrisoni</i>	4	4	100.0
<i>Bombus nevadensis</i>	13	12	92.3
<i>Bombus occidentalis</i>	5	3	60.0
<i>Bombus rufocinctus</i>	6	4	66.7
<i>Bombus sitkensis</i>	29	15	51.7
<i>Bombus sylvicola</i>	45	14	31.1
<i>Bombus vagans</i>	4	2	50.0
<i>Bombus vancouverensis</i>	259	257	99.2
<i>Bombus vandykei</i>	31	24	77.4
<i>Bombus vosnesenskii</i>	269	252	93.7
<i>Brachymelecta californica</i>	3	3	100.0
<i>Ceratina pacifica</i>	1	0	0.0
<i>Halictus confusus</i>	35	28	80.0
<i>Halictus farinosus</i>	28	24	85.7
<i>Halictus ligatus</i>	208	207	99.5
<i>Halictus rubicundus</i>	16	15	93.8

Table 6: Determination accuracy for all volunteers in 2023. (*continued*)

Taxon	Specimens ID-ed	Correct ID	% Correct
<i>Halictus tripartitus</i>	108	107	99.1
<i>Halictus virgatellus</i>	7	6	85.7
<i>Holcopasites pulchellus</i>	1	1	100.0
<i>Lasioglossum anhypops</i>	3	3	100.0
<i>Lasioglossum aspilurum</i>	1	1	100.0
<i>Lasioglossum boreale</i>	2	2	100.0
<i>Lasioglossum cooleyi</i>	23	0	0.0
<i>Lasioglossum cressonii</i>	1	1	100.0
<i>Lasioglossum diatretum</i>	1	1	100.0
<i>Lasioglossum diversopunctatum</i>	4	4	100.0
<i>Lasioglossum glabriventre</i>	1	1	100.0
<i>Lasioglossum helianthi</i>	1	0	0.0
<i>Lasioglossum incompletum</i>	74	72	97.3
<i>Lasioglossum inconditum</i>	2	2	100.0
<i>Lasioglossum kincaidii</i>	2	2	100.0
<i>Lasioglossum nevadense</i>	1	1	100.0
<i>Lasioglossum olympiae</i>	1	1	100.0
<i>Lasioglossum ovaliceps</i>	5	5	100.0
<i>Lasioglossum pavonotum</i>	10	10	100.0
<i>Lasioglossum pruinosum</i>	4	4	100.0
<i>Lasioglossum pulveris</i>	6	6	100.0
<i>Lasioglossum quebecense</i>	1	0	0.0
<i>Lasioglossum ruidosense</i>	3	3	100.0
<i>Lasioglossum sisymbrii</i>	19	19	100.0
<i>Lasioglossum titusi</i>	24	20	83.3
<i>Lasioglossum zephyrus</i>	1	1	100.0
<i>Lasioglossum zonulum</i>	4	4	100.0
<i>Megachile perihirta</i>	1	0	0.0
<i>Micralictoides ruficaudus</i>	14	14	100.0
<i>Osmia atrocyanea</i>	1	0	0.0
<i>Osmia brevis</i>	2	0	0.0
<i>Osmia coloradensis</i>	1	0	0.0
<i>Osmia cyanella</i>	3	0	0.0
<i>Osmia densa</i>	5	0	0.0
<i>Osmia sculleni</i>	3	0	0.0
<i>Protosmia rubifloris</i>	15	15	100.0
<i>Trachusa timberlakei</i>	5	5	100.0
TOTAL	1887	1678	88.9

Table 7: Your determination accuracy.

Taxon
No specimens identified

7 Taxonomic Accuracy, All Years

Over your time in the Atlas you identified 0 of your 361 specimens to genus level and 0 to species level (see Table 7). In total, volunteers from the Oregon Bee Atlas project identified 40.5 % (47150) of the 116490 bee specimens to the level of genus, with an average accuracy of 93.9%. Volunteers also identified 0.8% (875) of the specimens to species level, and had an average accuracy of 70.4% (see Table 8). Nicely done!

Table 8: Determination accuracy for all volunteers.

	Taxon	Specimens ID-ed	Correct ID	% Correct
Family				
	<i>Andrenidae</i>	6786	6064	89.4
	<i>Apidae</i>	17614	17375	98.6
	<i>Colletidae</i>	2847	2685	94.3
	<i>Halictidae</i>	14510	14302	98.6
	<i>Megachilidae</i>	11434	11275	98.6
	<i>Melittidae</i>	4	1	25.0
	<i>TOTAL</i>	53195	51702	97.2
Genus				
	<i>Agapostemon</i>	965	961	99.6
	<i>Andrena</i>	4750	4155	87.5
	<i>Anthidiellum</i>	56	24	42.9
	<i>Anthidium</i>	546	539	98.7
	<i>Anthophora</i>	1213	1144	94.3
	<i>Apis</i>	594	585	98.5
	<i>Ashmeadiella</i>	342	291	85.1
	<i>Atoposmia</i>	137	93	67.9
	<i>Biastes</i>	8	6	75.0
	<i>Bombus</i>	7802	7774	99.6
	<i>Brachymelecta</i>	95	71	74.7
	<i>Calliopsis</i>	98	57	58.2
	<i>Ceratina</i>	2971	2923	98.4
	<i>Chelostoma</i>	82	63	76.8
	<i>Coelioxys</i>	152	143	94.1
	<i>Colletes</i>	1346	1229	91.3
	<i>Diadasia</i>	368	322	87.5
	<i>Dianthidium</i>	314	280	89.2
	<i>Dioxygyn</i>	6	3	50.0
	<i>Dufourea</i>	260	217	83.5
	<i>Epeorus</i>	61	43	70.5
	<i>Eucera</i>	635	583	91.8
	<i>Habropoda</i>	279	259	92.8
	<i>Halictus</i>	5622	5393	95.9
	<i>Heriades</i>	223	179	80.3
	<i>Hesperapis</i>	4	1	25.0
	<i>Holcopasites</i>	1	1	100.0
	<i>Hoplitis</i>	748	605	80.9
	<i>Hylaeus</i>	1500	1454	96.9
	<i>Lasioglossum</i>	7189	6828	95.0

Table 8: Determination accuracy for all volunteers. (*continued*)

Taxon	Specimens ID-ed	Correct ID	% Correct
<i>Megachile</i>	2279	2223	97.5
<i>Melecta</i>	72	69	95.8
<i>Melissodes</i>	2045	1860	91.0
<i>Micralictoides</i>	16	14	87.5
<i>Neolarra</i>	3	3	100.0
<i>Nomada</i>	1220	1164	95.4
<i>Nomia</i>	2	2	100.0
<i>Oreopasites</i>	3	0	0.0
<i>Osmia</i>	6165	6055	98.2
<i>Panurginus</i>	750	567	75.6
<i>Perdita</i>	1147	1060	92.4
<i>Protandrena</i>	27	9	33.3
<i>Protosmia</i>	268	212	79.1
<i>Pseudoanthidium</i>	6	3	50.0
<i>Sphecodes</i>	454	354	78.0
<i>Stelis</i>	97	64	66.0
<i>Trachusa</i>	8	7	87.5
<i>Triepeolus</i>	176	147	83.5
<i>Xylocopa</i>	62	60	96.8
<i>Zacosmia</i>	1	1	100.0
TOTAL	53168	50100	94.2
Species			
<i>Agapostemon femoratus</i>	181	171	94.5
<i>Agapostemon melliventris</i>	14	14	100.0
<i>Agapostemon subtilior</i>	228	214	93.9
<i>Agapostemon virescens</i>	109	95	87.2
<i>Andrena angustitarsata</i>	18	18	100.0
<i>Andrena astragali</i>	1	1	100.0
<i>Andrena chlorogaster</i>	2	2	100.0
<i>Andrena crataegi</i>	1	1	100.0
<i>Andrena cupreotincta</i>	14	14	100.0
<i>Andrena fuscicauda</i>	2	2	100.0
<i>Andrena illinoiensis</i>	1	1	100.0
<i>Andrena nigrocaerulea</i>	2	2	100.0
<i>Andrena pallidifovea</i>	1	1	100.0
<i>Andrena perplexa</i>	1	1	100.0
<i>Andrena piperi</i>	3	2	66.7
<i>Andrena prunorum</i>	34	34	100.0
<i>Andrena salicifloris</i>	2	2	100.0
<i>Andrena vicina</i>	4	3	75.0
<i>Anthidiellum robertsoni</i>	19	19	100.0
<i>Anthidium atrifrons</i>	3	3	100.0
<i>Anthidium banningense</i>	5	5	100.0
<i>Anthidium duomarginatum</i>	1	0	0.0
<i>Anthidium emarginatum</i>	5	0	0.0
<i>Anthidium manicatum</i>	53	44	83.0
<i>Anthidium mormonum</i>	12	12	100.0
<i>Anthidium oblongatum</i>	14	14	100.0
<i>Anthidium palliventre</i>	33	30	90.9
<i>Anthidium placitum</i>	1	1	100.0
<i>Anthidium tenuiflorae</i>	2	2	100.0
<i>Anthidium utahense</i>	3	3	100.0

Table 8: Determination accuracy for all volunteers. (*continued*)

Taxon	Specimens ID-ed	Correct ID	% Correct
<i>Anthophora bombooides</i>	3	3	100.0
<i>Anthophora californica</i>	1	0	0.0
<i>Anthophora neglecta</i>	3	0	0.0
<i>Anthophora pacifica</i>	3	3	100.0
<i>Anthophora urbana</i>	251	249	99.2
<i>Anthophora ursina</i>	2	0	0.0
<i>Apis mellifera</i>	492	488	99.2
<i>Ashmeadiella aridula</i>	1	0	0.0
<i>Ashmeadiella californica</i>	1	1	100.0
<i>Ashmeadiella clypeodentata</i>	1	0	0.0
<i>Ashmeadiella cubiceps</i>	2	1	50.0
<i>Ashmeadiella difugita</i>	1	0	0.0
<i>Ashmeadiella eurynorhyncha</i>	1	0	0.0
<i>Ashmeadiella timberlakei</i>	1	1	100.0
<i>Atoposmia abjecta</i>	3	3	100.0
<i>Atoposmia copelandica</i>	6	6	100.0
<i>Atoposmia oregonia</i>	4	3	75.0
<i>Atoposmia triodonta</i>	1	0	0.0
<i>Bombus Griseocollis</i>	1	0	0.0
<i>Bombus Mixtus</i>	8	0	0.0
<i>Bombus Nevadensis</i>	1	0	0.0
<i>Bombus appositus</i>	48	36	75.0
<i>Bombus caliginosus</i>	345	273	79.1
<i>Bombus centralis</i>	201	187	93.0
<i>Bombus fervidus</i>	362	325	89.8
<i>Bombus flavidus</i>	145	134	92.4
<i>Bombus flavifrons</i>	541	454	83.9
<i>Bombus frigidus</i>	5	0	0.0
<i>Bombus griseocollis</i>	140	138	98.6
<i>Bombus huntii</i>	160	139	86.9
<i>Bombus insularis</i>	33	25	75.8
<i>Bombus kirbiellus</i>	1	0	0.0
<i>Bombus melanopygus</i>	328	274	83.5
<i>Bombus mixtus</i>	956	877	91.7
<i>Bombus morrisoni</i>	11	10	90.9
<i>Bombus nevadensis</i>	65	58	89.2
<i>Bombus occidentalis</i>	33	27	81.8
<i>Bombus rufocinctus</i>	58	36	62.1
<i>Bombus sitkensis</i>	195	147	75.4
<i>Bombus suckleyi</i>	2	0	0.0
<i>Bombus sylvicola</i>	69	31	44.9
<i>Bombus vagans</i>	24	8	33.3
<i>Bombus vancouverensis</i>	829	802	96.7
<i>Bombus vandykei</i>	86	62	72.1
<i>Bombus vosnesenskii</i>	1378	1284	93.2
<i>Brachymelecta californica</i>	45	43	95.6
<i>Calliopsis zonalis</i>	1	0	0.0
<i>Ceratina acantha</i>	679	665	97.9
<i>Ceratina micheneri</i>	44	43	97.7
<i>Ceratina nanula</i>	3	2	66.7
<i>Ceratina neomexicana</i>	1	1	100.0
<i>Ceratina pacifica</i>	8	6	75.0

Table 8: Determination accuracy for all volunteers. (*continued*)

Taxon	Specimens ID-ed	Correct ID	% Correct
<i>Ceratina sequoiae</i>	5	0	0.0
<i>Ceratina tejonensis</i>	7	2	28.6
<i>Ceratina timberlakei</i>	5	0	0.0
<i>Chelostoma minutum</i>	1	1	100.0
<i>Coelioxys alternatus</i>	1	0	0.0
<i>Coelioxys rufitarsis</i>	4	0	0.0
<i>Coelioxys sayi</i>	2	2	100.0
<i>Coelioxys texanus</i>	4	0	0.0
<i>Diadasia angusticeps</i>	7	7	100.0
<i>Diadasia australis</i>	4	4	100.0
<i>Diadasia diminuta</i>	17	17	100.0
<i>Diadasia enavata</i>	100	99	99.0
<i>Diadasia lutzi</i>	28	6	21.4
<i>Diadasia nigritrons</i>	9	9	100.0
<i>Diadasia opuntiae</i>	8	0	0.0
<i>Dianthidium curvatum</i>	22	22	100.0
<i>Dianthidium heterulkei</i>	9	0	0.0
<i>Dianthidium pudicum</i>	12	12	100.0
<i>Dianthidium subparvum</i>	3	3	100.0
<i>Dianthidium ulkei</i>	24	17	70.8
<i>Dioxys aurifuscus</i>	2	2	100.0
<i>Eucera actuosa</i>	11	10	90.9
<i>Eucera cordleyi</i>	18	4	22.2
<i>Eucera edwardsii</i>	48	20	41.7
<i>Eucera frater</i>	8	8	100.0
<i>Eucera speciosa</i>	19	0	0.0
<i>Habropoda depressa</i>	4	4	100.0
<i>Habropoda miserabilis</i>	7	6	85.7
<i>Habropoda tristissima</i>	3	2	66.7
<i>Halictus Ligatus</i>	4	0	0.0
<i>Halictus confusus</i>	149	122	81.9
<i>Halictus farinosus</i>	284	246	86.6
<i>Halictus ligatus</i>	1475	1464	99.3
<i>Halictus rubicundus</i>	361	333	92.2
<i>Halictus tripartitus</i>	723	684	94.6
<i>Halictus virgatellus</i>	114	109	95.6
<i>Heriades carinata</i>	2	0	0.0
<i>Holcopasites pulchellus</i>	1	1	100.0
<i>Hoplitis albifrons</i>	5	5	100.0
<i>Hoplitis boharti</i>	2	2	100.0
<i>Hoplitis coleii</i>	1	0	0.0
<i>Hoplitis emarginata</i>	1	1	100.0
<i>Hoplitis fulgida</i>	7	7	100.0
<i>Hoplitis grinnelli</i>	8	5	62.5
<i>Hoplitis hypocrita</i>	1	1	100.0
<i>Hoplitis louisae</i>	2	2	100.0
<i>Hoplitis orthognatha</i>	7	7	100.0
<i>Hoplitis producta</i>	12	10	83.3
<i>Hoplitis uvulalis</i>	3	3	100.0
<i>Hoplitis viridimicans</i>	6	4	66.7
<i>Hylaeus basalis</i>	6	3	50.0
<i>Hylaeus mesillae</i>	1	0	0.0

Table 8: Determination accuracy for all volunteers. (*continued*)

Taxon	Specimens ID-ed	Correct ID	% Correct
<i>Hylaeus verticalis</i>	1	0	0.0
<i>Lasioglossum albipenne</i>	3	3	100.0
<i>Lasioglossum albohirtum</i>	7	7	100.0
<i>Lasioglossum allonotus</i>	1	1	100.0
<i>Lasioglossum anhypops</i>	6	5	83.3
<i>Lasioglossum aspilurum</i>	2	2	100.0
<i>Lasioglossum athabascense</i>	2	0	0.0
<i>Lasioglossum boreale</i>	2	2	100.0
<i>Lasioglossum brunneiventre</i>	4	4	100.0
<i>Lasioglossum buccale</i>	3	3	100.0
<i>Lasioglossum colatum</i>	1	1	100.0
<i>Lasioglossum cooleyi</i>	24	1	4.2
<i>Lasioglossum cordleyi</i>	5	5	100.0
<i>Lasioglossum cressonii</i>	30	30	100.0
<i>Lasioglossum diatretum</i>	5	3	60.0
<i>Lasioglossum diversopunctatum</i>	4	4	100.0
<i>Lasioglossum egregium</i>	4	1	25.0
<i>Lasioglossum glabriventre</i>	4	4	100.0
<i>Lasioglossum helianthi</i>	1	0	0.0
<i>Lasioglossum imbrex</i>	7	0	0.0
<i>Lasioglossum incompletum</i>	79	73	92.4
<i>Lasioglossum inconditum</i>	7	5	71.4
<i>Lasioglossum kincaidii</i>	10	10	100.0
<i>Lasioglossum macroprosopum</i>	2	2	100.0
<i>Lasioglossum mellipes</i>	3	0	0.0
<i>Lasioglossum nevadense</i>	9	9	100.0
<i>Lasioglossum novascotiae</i>	1	0	0.0
<i>Lasioglossum occultum</i>	3	2	66.7
<i>Lasioglossum olympiae</i>	138	127	92.0
<i>Lasioglossum ovaliceps</i>	12	12	100.0
<i>Lasioglossum pacificum</i>	64	55	85.9
<i>Lasioglossum pavonotum</i>	59	58	98.3
<i>Lasioglossum pruinosa</i>	12	12	100.0
<i>Lasioglossum pulveris</i>	27	27	100.0
<i>Lasioglossum quebecense</i>	1	0	0.0
<i>Lasioglossum rubicundus</i>	1	0	0.0
<i>Lasioglossum ruidosense</i>	5	5	100.0
<i>Lasioglossum sequoiae</i>	6	0	0.0
<i>Lasioglossum sisymbrii</i>	105	101	96.2
<i>Lasioglossum titusi</i>	260	214	82.3
<i>Lasioglossum villosulum</i>	11	8	72.7
<i>Lasioglossum zephyrus</i>	2	2	100.0
<i>Lasioglossum zonulum</i>	25	22	88.0
<i>Megachile angelarum</i>	25	22	88.0
<i>Megachile anograe</i>	6	0	0.0
<i>Megachile apicalis</i>	4	4	100.0
<i>Megachile brevis</i>	23	1	4.3
<i>Megachile fidelis</i>	6	5	83.3
<i>Megachile melanophaea</i>	2	1	50.0
<i>Megachile mellitarsis</i>	4	4	100.0
<i>Megachile montivaga</i>	1	0	0.0
<i>Megachile nevadensis</i>	8	0	0.0

Table 8: Determination accuracy for all volunteers. (*continued*)

Taxon	Specimens ID-ed	Correct ID	% Correct
<i>Megachile perihirta</i>	61	55	90.2
<i>Megachile pugnata</i>	8	4	50.0
<i>Megachile rotundata</i>	23	22	95.7
<i>Megachile wheeleri</i>	4	4	100.0
<i>Melecta edwardsii</i>	8	8	100.0
<i>Melecta pacifica</i>	5	3	60.0
<i>Melecta separata</i>	4	4	100.0
<i>Melecta thoracica</i>	2	0	0.0
<i>Melissodes agilis</i>	1	1	100.0
<i>Melissodes bimaculatus</i>	2	0	0.0
<i>Melissodes metenuus</i>	3	3	100.0
<i>Melitta americana</i>	2	0	0.0
<i>Micralictoides ruficaudus</i>	14	14	100.0
<i>Nomia melanderi</i>	1	1	100.0
<i>Osmia aglaia</i>	10	0	0.0
<i>Osmia albolateralis</i>	1	0	0.0
<i>Osmia atrocyanea</i>	10	9	90.0
<i>Osmia brevis</i>	2	0	0.0
<i>Osmia bruneri</i>	8	7	87.5
<i>Osmia californica</i>	2	0	0.0
<i>Osmia calla</i>	6	0	0.0
<i>Osmia coloradensis</i>	1	0	0.0
<i>Osmia cornifrons</i>	10	10	100.0
<i>Osmia cyanella</i>	3	0	0.0
<i>Osmia densa</i>	6	1	16.7
<i>Osmia kincaidii</i>	3	3	100.0
<i>Osmia laeta</i>	2	0	0.0
<i>Osmia lignaria</i>	11	11	100.0
<i>Osmia montana</i>	3	3	100.0
<i>Osmia nemoris</i>	5	1	20.0
<i>Osmia sculleni</i>	3	0	0.0
<i>Perdita nevadensis</i>	1	1	100.0
<i>Protosmia rubifloris</i>	168	167	99.4
<i>Pseudoanthidium nanum</i>	2	2	100.0
<i>Stelis laticincta</i>	5	5	100.0
<i>Trachusa timberlakei</i>	5	5	100.0
<i>Triepeolus concavus</i>	4	4	100.0
<i>Triepeolus utahensis</i>	5	2	40.0
<i>Xylocopa californica</i>	1	1	100.0
<i>Xylocopa tabaniformis</i>	16	16	100.0
<i>Xylocopa virginica</i>	1	0	0.0
<i>Zacosmia maculata</i>	1	1	100.0
<i>bombus flavifrons</i>	1	0	0.0
<i>bombus melanopygus</i>	1	0	0.0
<i>bombus sitkensis</i>	1	0	0.0
<i>bombus vosnesenskii</i>	1	0	0.0
TOTAL	13393	12047	89.9