

Supplementary material, S1. New and noteworthy records of Manitoban bees

From: Jason Gibbs, Emily Hanuschuk, Reid Miller, Melanie Dubois, Massimo Martini, Steve Robinson, Phoenix Nakagawa, Cory S. Sheffield, Sophie Cardinal, and Thomas M. Onuferko. 2022. A checklist of the bees (Hymenoptera: Apoidea) of Manitoba, Canada. *The Canadian Entomologist*, 154. <https://doi.org/10.4039/tce.2022.39>.

ANDRENINAE: Andrenini

***Andrena (Callandrena s. l.) placata* Mitchell 1960** (*simplex/solidiginis* group) (new provincial record)

Material examined. **Springfield** • Nourse (4.7 km NW), 49.914, –96.433 – 1 ♀, 2019-08-08, leg. Hanuschuk E., ex. *Solidago nemoralis* (WRME).

Notes. Oligolectic on *Solidago* and *Symphotrichum* (Compositae).

***Andrena (Cnemidandrena) parnassiae* Cockerell 1902** (*scutellinitens* group) (new provincial record)

Material examined. • **Stuartburn** • Gardenton, 49.06, –96.76 – 1 ♀, 1995-08-08, leg. Borkowsky C. (WRME) • Tall Grass Prairie Preserve, 49.074, –96.763 – 3 ♀, 2020-08-10, leg. Gibbs J., ex. *Parnassia* (WRME).

Notes. Oligolectic on *Parnassia* (Celastraceae). Attempts to collect this bee in other locations and at other times have been unsuccessful. A single record from Edmonton, Alberta suggests this species may be widespread, albeit exceedingly rare in collections (Criddle 1925).

***Andrena (Cnemidandrena) runcinatae* Cockerell 1906** (*scutellinitens* group) (new provincial record)

Material examined. • **Clanwilliam–Erickson** • Erickson, 50.49, –99.91 – 1 ♀, 1963-07-31, leg. Pengelly D.H. (WRME) • **Glenboro–South Cypress** • Aweme, 49.7603, –99.6219 – 1 ♂, 2010-07-08, leg. Wareham K. & Patterson S. (WRME) • **YellowQuill** 27, 49.68083, –99.55444 – 1 ♂, 2005-07-12, leg. Patenaude A.M. (WRME) – 1 ♀, 2006-07-11, leg. Patenaude A.M. (WRME) • **YellowQuill** 29, 49.68083, –99.55417 – 1 ♂, 2006-06-19, leg. Patenaude A.M. (WRME) • **Saint Laurent** • Saint Laurent (7 km NNE), 50.474, –97.923 – 2 ♀♀, 2020-07-25, leg. Martini M., ex. *Lactuca tatarica* (WRME) – 1 ♀, 2020-07-25, leg. Shukla-Bergen S., ex. *Sonchus arvensis* (WRME) • **Two Borders** • Broomhill WMA, 49.401, –101.012 – 1 ♀, 2022-07-12, leg. Miller R. (WRME) • **Woodlands** • Woodlands (6 km NNW), 50.258, –97.694 – 2 ♀, 2020-07-22, leg. Martini M., ex. *Cirsium flodmanii* (WRME).

Notes. *Andrena runcinatae* has been treated as senior synonym of *A. robervalensis* in the past (Gusenleitner *et al.* 2005), but the latter was resurrected after examination of specimens from the type series of both (Gibbs *et al.* 2017). The species differ in the sculpturing of the clypeus with *A. runcinatae* being distinctly more polished on the apical portion. *Andrena robervalensis* was recorded from Manitoba (Donovan 1977), but those specimens were not examined. One is deposited at the INHS but could not be located. Donovan's description of the species was consistent with the types we examined, but he did not treat *A. runcinatae* in his revision. We record *A. runcinatae* based on the specimens above, which are distinctly polished on the lower half of the clypeus. LaBerge determined the CNC specimen above as

A. robervalensis and this name was used in a recent thesis (Martini 2022). More detailed study from throughout the range of these species is needed to clarify their identity and range. It is possible that *A. peckhami* recorded in the literature is a misinterpretation of this species.

***Andrena (Conandrena) bradleyi* Viereck 1907 (new provincial record)**

Material examined. • **Division 1** • Stony Creek, 49.263, -95.281 – 1 ♂, 1983–05–05, leg. Galloway T.D. (WRME).

Notes. Oligolectic on Ericaceae. An additional male specimen, identified through a photograph, was collected in RM Brokenhead, 50.263, -96.573, in May, 2020 by T. Lawton.

***Andrena (Ptilandrena) cf. campanulae* Viereck and Cockerell, 1914**

Material examined. • **Armstrong** • Inwood (7.1 km NNW), 50.566, -97.546 – 1 ♀, 2019-06-27, leg. Hanuschuk E. (WRME) • **Clematis WMA**, Tillenius Trail, 50.61 –97.508 – 2 ♂, 2018-07-08, leg. Gibbs J. (WRME) • **Clematis WMA**, 50.568, -97.667 – 1 ♀, 2022-07-05, leg. Hettiarachchi T. (WRME).

Notes. *Andrena campanulae* was treated as synonym of *A. geranii*, which is notable for its distinctly acute galea. Two females from Manitoba are known with a DNA barcode matching individuals collected from Minnesota, Saskatchewan, and Alberta. DNA barcodes are clearly distinct from ‘true’ *A. geranii* sequenced from Michigan.

***Andrena (Ptilandrena) aff. nigrihirta* (Ashmead 1890)**

Notes. This species is rather abundant in traps. It was previously recorded as *A. geranii* Robertson in an MSc thesis (Patenaude 2007), but unpublished DNA barcode data and morphological examination clearly separate it from *A. geranii*. It is perhaps closest to *A. nigrihirta* but differs in some respects, including in having an apically curved hind tibial spur.

***Andrena (Micrandrena) nigrae* Robertson 1905 (*illinoiensis* group) (new provincial record)**

Material examined. • **Ste. Anne** • Giroux, 49.578075, -96.548456 – 2 ♂, 2019-05-13, leg. Shukla-Bergen S., ex. *Salix* (WRME) • **Winnipeg** • Fort Garry, 49.8, -97.1667 – 1 adult 1923-05-23, leg. Kiteley E.J. (WRME) • University of Manitoba, 49.811, -97.1364 – 3 ♂, 2017-05-19, leg. Gibbs J. (WRME) – 1 ♀, 2018-05-19, leg. Gibbs J. (WRME) • **Winnipeg**, 49.88, -97.17 – 1 adult 1924-05-26, leg. Mitchener A.V. (WRME).

Notes. Oligolectic on *Salix* (Salicaceae).

***Andrena (Plastandrena) crataegi* Robertson 1893 (*crataegi* group) (new provincial record)**

Material examined. • **Glenboro–South Cypress** • Aweme, 49.709329, -99.603173 – 1 ♀ 1917-07-3, leg. N. Criddle (CNC) • **Spruce Woods PP**, 49.6599, -99.2823 – 2 ♀, 2020-05-22, leg. Miller R. (WRME) – 2 ♂, 2020-05-22, leg. Miller R. (WRME) – 1 ♂, 2020-05-22, leg. Miller R. Martini M. (WRME) – 1 ♀, 2017-05-27, leg. Gibbs J. (WRME) • **Hanover** • Grunthal, 49.382, -96.894 – 1 ♂, 2019-05-23, leg. Shukla-Bergen S., ex. *Amelanchier alnifolia* (WRME) • **Prairie Lakes** • Ninette, 49.3996, -99.630467 – 1 ♀ 1958-06-14, leg. Hurley R.L. (CNC) • **Reynolds** • Sandilands, 49.676, -95.898 – 1 ♂, 2018-05-21, leg. Hanuschuk E., ex. *Prunus* (WRME) – 1 ♂, 2018-05-21, leg. Hanuschuk E., ex. *Amelanchier* (WRME) • **St. Clements** • Beaconia, 50.42999, -96.55654 – 1 ♀, 2019-07-11, leg. Martini M. (WRME) • **Whitemouth** • Seven Sisters Falls, 50.095, -96.042 – 1 ♂, 2018-05-28, leg. Gibbs J., ex. *Prunus virginiana* (WRME).

Notes. LaBerge (1969) notes a gap in the distribution for the species in Manitoba and North Dakota. These records demonstrate that the distribution is continuous across the continent.

***Andrena (Plastandrena) prunorum prunorum* Cockerell 1896**

Material examined. • **Cornwallis** • CFB Shilo (4.3 km NW), 49.828, -99.689 – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-05-23, leg. Hanuschuk E. (WRME) • CFB Shilo (4.5 km SW), 49.778, -99.689 – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-06-12, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-08-04, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, -99.392 – 1 ♀, 2019-08-28, leg. Hanuschuk E. (WRME) • Aweme (7.1 km SW), 49.665, -99.677 – 1 ♀, 2018-07-17, leg. Hanuschuk E. (WRME) • Aweme, 49.709329, -99.603173 – 1 ♀ 1925-05-15, leg. R.D. Bird (CNC) – 2 ♂ 1925-05-25, leg. R.D. Bird (CNC) • Spruce Woods PP, 49.6599, -99.2823 – 1 ♂, 2020-05-22, leg. Miller R. (WRME) – 1 ♀, 2019-06-09, leg. Gibbs J. (WRME) – 1 ♀, 2019-06-09, leg. Gibbs J., ex. *Rosa* (WRME) – 1 ♀, 2018-05-29, leg. Manitoba Conservation Data Centre (WRME) – 1 ♂, 2019-05-17, leg. Miller R. (WRME) • Spirit Sands, Spruce Woods PP, 49.6637, -99.2858, – 1 ♀, 2019-05-30, leg. Onuferko T. (CMNC) • **Hanover** • Grunthal, 49.384, -96.889 – 1 ♀, 2019-08-19, leg. Shukla-Bergen S. (WRME) • **North Cypress–Langford** • CFB Shilo (5 km NE), 49.836, -99.584 – 5 ♂, 2019-05-23, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-08-04, leg. Hanuschuk E. (WRME) • CFB Shilo (9 km E), 49.807, -99.511 – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) • Spruce Woods PP (4.2 km N), 49.842, -99.251 – 1 ♂, 2018-07-06, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** • Portage Sand Hills WMA (3 km W), 49.8, -98.324 – 1 ♀, 2019-06-14, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-08-16, leg. Hanuschuk E. (WRME) • **Ste. Anne** • Giroux, 49.559453, -96.59951 – 1 ♀, 2019-05-13, leg. Shukla-Bergen S. (WRME).

Additional record. **Glenboro–South Cypress**: 1 ♀, Spruce Woods PP (American Museum of Natural History; det W.E. LaBerge).

Notes. *Andrena prunorum* is not a new provincial record (Criddle *et al.* 1924), but our records extend the range of this western species to near the Boreal Forest in Manitoba.

***Andrena (Taeniandrena) wilkella* (Kirby 1802)** (new provincial record)

Material examined. • Alexander – 1 ♀ • Armstrong – 4 ♀ 1 ♂ • Birds Hill PP – 4 ♀ • Brokenhead – 1 ♂ • Cartier – 1 ♂ • Cornwallis – 1 ♂ • De Salaberry – 1 ♀ • Division 19 – 2 ♀ • Dufferin – 1 ♂ • Emerson–Franklin – 6 ♀ 15 ♂ • Glenboro–South Cypress – 1 ♂ • Grey – 4 ♂ • Hanover – 15 ♀ 9 ♂ • La Broquerie – 4 ♀ • Neepawa – 1 ♂ • Piney – 1 ♀ • Portage la Prairie (RM) – 5 ♀ 3 ♂ • Reynolds – 1 ♀ 10 ♂ • Ritchot – 1 ♂ • Rockwood – 13 ♀ • Saint Laurent – 2 ♀ 2 ♂ • Woodlands – 8 ♀ 2 ♂.

Notes. *Andrena wilkella* is an introduced species with preference for Fabaceae. Previously documented by Jason Gibbs on iNaturalist (6875037, 27763831, 27533503). The only records farther west are in British Columbia, suggestive of a distinct translocation of *A. wilkella* to the west coast (Criddle *et al.* 1924; Sheffield and Heron 2018).

***Andrena (Trachandrena) cyanophila* Cockerell 1906**

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.01575, -96.85853 – 1 ♀, 2018-06-28, leg. Shaw A., ex. *Dasiphora fruticosa* (WRME) • **Ellice–Archie** • St. Lazare, 50.418442, -101.36038 – 1 ♀, 2015-06-24, leg. Oylnyk M., ex. *Amorpha* (WRME) – 3 ♀, 2015-07-02, leg. Oylnyk M., ex. *Amorpha* (WRME) • **Glenboro–South Cypress** • Assiniboine

Corridor WMA, 49.584, -99.392 – 2 ♀, 2019-06-26, leg. Hanuschuk E. (WRME) • Aweme, 49.7626, -99.6173 – 2 ♀, 2009-07-09, leg. Chernos C. & Patterson S. (WRME) • CFB Shilo, 49.7603, -99.6189 – 3 ♀, 2009-06-25, leg. Chernos C. & Patterson S. (WRME) – 5 ♀, 2009-06-30, leg. Chernos C. & Patterson S. (WRME) • Glenboro (2.5 km W), 49.565, -99.325 – 3 ♀, 2019-06-26, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-06-26, leg. Hanuschuk E. (WRME) • Glenboro (7.5 km W), 49.563, -99.394 – 59 ♀, 2019-06-26, leg. Hanuschuk E. (WRME) – 22 ♂, 2019-06-26, leg. Hanuschuk E. (WRME) • near Aweme, 49.71, -99.6 – 5 ♀, 1983-07-12, leg. Galloway T.D. (WRME) • CFB Shilo, 49.760256, -99.621888 – 1 ♀, 1900-01-00, leg. Chernos C. & Patterson S. (WRME) – 1 ♀, 2011-06-30, leg. Wareham K. & Patterson S. (WRME) • YellowQuill 27, 49.68083, -99.55444 – 1 ♀, 2006-06-06, leg. Patenaude A.M. (WRME) – 1 ♀, 2006-06-20, leg. Patenaude A.M. (WRME) – 3 ♀, 2006-06-27, leg. Patenaude A.M. (WRME) • YellowQuill 28, 49.69111, -99.57472 – 2 ♀, 2006-06-27, leg. Patenaude A.M. (WRME) • YellowQuill 29, 49.68083, -99.55417 – 1 ♀, 2006-06-19, leg. Patenaude A.M. (WRME) – 1 ♀, 2006-06-20, leg. Patenaude A.M. (WRME) – 1 ♀, 2006-07-11, leg. Patenaude A.M. (WRME) • **North Cypress–Langford** • CFB Shilo, 49.8363, -99.5841 – 1 ♀, 2009-06-30, leg. Chernos C. & Patterson S. (WRME) • **Portage la Prairie** • Portage la Prairie, 49.96, -98.31 – 4 ♂, 2001-06-21, leg. Elliott B., ex. *Brassica oleracea* (WRME) • **Portage la Prairie (RM)** • Delta Marsh WMA, 50.176, -98.313 – 1 ♀, 2018-06-20, leg. Hanuschuk E. (WRME) • **Shellmouth–Boulton** • Shellmouth, 50.942836, -101.41199 – 1 ♀, 2015-07-01, leg. Olynyk M., ex. *Amorpha* (WRME) – 1 ♀, 2015-07-01, leg. Olynyk M., ex. *Amorpha* (WRME).

Notes. Specimens in the province have previously been misidentified as *A. quintilis* Robertson. *Andrena quintilis* may also occur in Manitoba based on nearby records in the USA, but it has never been seen in the province. Efforts to collect *A. quintilis* from its preferred hostplant *Amorpha* were unsuccessful. The distribution map for *A. cyanophila* in LaBerge (1973) is switched with that of *A. striatifrons* Cockerell.

PANURGINAE: Calliopsini

***Calliopsis (Calliopsis) andreniformis* Smith 1853**

Material examined. • Birds Hill PP – 5 ♀ 8 ♂ • Brokenhead – 1 ♂ • Emerson–Franklin – 4 ♀ 4 ♂ • Glenboro–South Cypress – 3 ♀ 7 ♂ 1 adult • Hanover – 10 ♀ • Portage la Prairie – 8 ♀ 18 ♂ • Portage la Prairie (RM) – 5 ♀ 5 ♂ • Reynolds – 1 ♀ 3 ♂ • Rockwood – 2 ♀ 2 ♂ • Springfield – 3 ♀ 1 ♂ • St. Clements – 2 ♀ 2 ♂ • Two Borders – 2 ♀ 1 ♂ • Winnipeg – 2 ♂.

Notes. *Calliopsis andreniformis* was first recorded in a thesis by Patenaude (2007).

***Calliopsis (Nomadopsis) australior* Cockerell 1897** (new Canadian record)

Material examined. • **Dufferin** • Carman, 49.45916, -98.02441 – 1 ♀, 2019-08-02, leg. Martini M. (WRME) • **Grassland** • Elgin (5 km W), 49.44, -100.35 – 5 ♂, 1997-07-25, leg. Preston W.B. (WRME) • **Wallace–Woodworth** • Virden (19.4 km WSW), 49.8039, -101.1943 – 1 ♀, – 1 ♂, 2021-07-23, leg. Abel O. (CMNC) • Virden (19.6 km WSW), 49.8014, -101.1961 – 2 ♀, 2021-07-23, leg. Abel O. (CMNC).

PANURGINAE: Perditiini

***Perdita (Perdita) fallax* Cockerell 1896** (*octomaculata* group) (new provincial record)

Material examined. **Glenboro–South Cypress • Spirit Sands, Spruce Woods PP**, 49.6637, –99.2858, – 1 ♀, 2019-07-30, leg. Onuferko T. (CMNC).

***Perdita (Perdita) tridentata* Stevens 1919** (*octomaculata* group) (new Canadian record)

Material examined. • **Glenboro–South Cypress • Spirit Sands, Spruce Woods PP**, 49.6637, –99.2858, – 4 ♀, 2019-07-30, leg. Onuferko T. (CMNC) – 1 ♀, 2019-08-10, leg. Onuferko T. (CMNC) • **Spruce Woods PP**, 49.663, –99.289 – 5 ♂, 2020-08-22, leg. Gibbs J., ex. *Helianthus* (WRME) – 2 ♀, 2020-08-22, leg. Gibbs J., ex. *Helianthus* (WRME) – 3 ♂, 2020-08-22, leg. Gibbs J., ex. *Helianthus* (WRME).

Notes. *Perdita tridentata* is oligolectic on *Helianthus*. Also, it's been recorded from Alberta and Saskatchewan (Cory Sheffield, unpublished data).

PANURGINAE: Protandrenini

***Protandrena (Pterosarus) albertensis* (Cockerell 1937) stat. nov.**

Material examined. • **Glenboro–South Cypress • Aweme** (2.6 km WNW), 49.716, –99.644 – 1 ♀, 2018-08-22, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM) • Delta**, 50.185, –98.32 – 1 ♀, 1974-08-25, leg. Galloway T.D. (WRME) • **Rockwood • Oak Hammock Marsh Interpretive Centre** (4.7 km SW), 50.142, –97.184 – 1 ♂, 2019-07-12, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-07-12, leg. Hanuschuk E. (WRME) • **Saint Laurent • Saint Laurent** (7 km NNE), 50.474, –97.923 – 4 ♀, 2020-07-25, leg. Martini M., ex. *Lactuca tatarica* (WRME) – 1 ♂, 2020-07-25, leg. Martini M., ex. *Lactuca tatarica* (WRME) – 1 ♀, 2020-07-25, leg. Shukla-Bergen S., ex. *Helianthus maximiliani* (WRME) – 5 ♀, 2020-07-25, leg. Shukla-Bergen S., ex. *Sonchus arvensis* (WRME).

Notes. *Protandrena albertensis* is a specialist on Compositae. The males have distinctly inflated tarsi, more so than any other member of the subgenus *Pterosarus*. Females match the holotype female closely including a distinctly rounded labral process. They are quite distinct from *P. piercei*, which is larger with a distinct propleural process in the female. The subspecific name was applied in a thesis by Martini (2022).

***Protandrena (Pterosarus) albitarsis* (Cresson 1872)** (new provincial record)

Material examined. • **Coldwell • Oak Point** (6 km NNE), 50.552, –97.977 – 1 ♀, 2020-07-10, leg. Martini M., ex. *Rudbeckia hirta* (WRME) – 2 ♂, 2020-07-10, leg. Martini M., ex. *Rudbeckia hirta* (WRME) • **Emerson–Franklin • Ridgeville**, 49.119, –97.011 – 1 ♂, 2019-08-22, leg. Shukla-Bergen S., ex. *Helianthus pauciflorus* (WRME) • **Glenboro–South Cypress • Aweme** (7.1 km SW), 49.665, –99.677 – 1 ♂, 2018-08-07, leg. Hanuschuk E. (WRME) • **Rhineland • Altona**, 49.1, –97.57 – 3 ♀, 1951-08-10, leg. Askew W.L. (WRME) – 1 ♂, 1951-08-10, leg. Askew W.L. (WRME) • **Saint Laurent • Saint Laurent** (7 km NNE), 50.474, –97.923 – 1 ♀, 2020-07-25, leg. Shukla-Bergen S., ex. *Helianthus maximiliani* (WRME) – 1 ♂, 2020-07-25, leg. Shukla-Bergen S., ex. *Helianthus maximiliani* (WRME).

Notes. *Protandrena albitarsis* is a specialist on Compositae (Hurd 1979). It was previously recorded in theses by Hanuschuk (2021) and Martini (2022). Specimens were compared directly to the lectotype.

***Protandrena (Pterosarus) piercei* (Crawford 1903)** (new provincial record).

Material examined. • **Coldwell** • Coldwell, 50.5546, -97.9749 – 1 ♀, 2020-08-18, leg. Miller R., ex. *Helianthus* (WRME) • **Rhineland** • Altona, 49.1, -97.57 – 1 ♀, 1951-08-10, leg. Askew W.L., ex. *Helianthus* (CNC).

Notes. *Protandrena piercei* is oligolectic on *Helianthus*. Also, newly recorded from Holdfast, Saskatchewan (CNC).

***Protandrena (Pterosarus) renimaculata* (Cockerell 1896)**

Material examined. • **Glenboro–South Cypress** • Sec27 Twp8 Rge16 near Treesbank, 49.68083, -99.55444 – 1 ♀, 2005-09-20, leg. Patenaude A.M. (WRME) • **Grahamdale** • Saint Martin (7.5 km SSW), 51.652, -98.715 – 1 ♀, 2020-08-24, leg. Shukla-Bergen S., ex. *Grindelia squarrosa* (WRME) • **Ritchot** • Glenlea, 49.6, -97.1 – 1 ♂, 1970-08-14, leg. Ellis R. (WRME) • **Rockwood** • Oak Hammock Marsh, 50.172, -97.135 – 7 ♀, 2020-08-12, leg. Gibbs J., ex. *Grindelia squarrosa* (WRME) – 1 ♂, 2020-08-12, leg. Gibbs J., ex. *Grindelia squarrosa* (WRME) – 1 ♀, 2020-08-26, leg. Gibbs J., ex. *Symphotrichum* (WRME) • **Saint Laurent** • Saint Laurent (7 km NNE), 50.474, -97.923 – 1 ♂, 2020-08-05, leg. Shukla-Bergen S., ex. *Symphotrichum ericodes* (WRME) • **Winnipeg** • St. James, 49.9, -97.2 – 1 ♂, 1962-08-19, leg. Garland J.A. (WRME) • Winnipeg, 49.88, -97.17 – 1 ♀, 1985-09-07, leg. Leferink J. (WRME).

Notes. *Protandrena renimaculata* is oligolectic on *Grindelia* (Compositae) and related taxa. First recorded in a thesis by Patenaude (2007) as *Pseudopanurgus renimaculatus*.

***Protandrena (Pterosarus) perlaevis* (Cockerell 1896)**

Material examined. • **Glenboro–South Cypress** • Aweme, 49.7087, -99.6031 – 1 ♀, 2010-08-19, leg. Wareham K. & Patterson S. (WRME) • Glenboro (2.5 km W), 49.565, -99.325 – 1 ♀, 2019-08-28, leg. Hanuschuk E., ex. *Helianthus decapetalus* (WRME) • Spruce Woods PP, 49.6802, -99.1475 – 1 ♀, 2018-07-02, leg. Manitoba Conservation Data Centre (WRME) – 1 ♀, 2018-07-20, leg. Hanuschuk E. (WRME) • YellowQuill Mixed-Grass Prairie Preserve, 49.6808, -99.5542 – 1 ♀, 2005-08-03 (WRME) • **Portage la Prairie (RM)** • Delta Marsh Field Station, 50.184, -98.384 – 1 ♀, 1984-08-24, leg. Gadawski S.E. (WRME) • **Rhineland** • Altona, 49.1, -97.57 – 7 ♀, 1951-08-10, leg. Askew W.L., ex. *Helianthus* (WRME) – 19 ♀, 1951-08-10, leg. Askew W.L. (WRME) – 3 ♂, 1951-08-10, leg. Askew W.L. (WRME) – 1 ♀, 1953-08-21, leg. Barrett C.F. (WRME) – 3 ♀, 1953-08-26, leg. Barrett C.F. (WRME) – 2 ♀, 1953-08-27, leg. Barrett C.F. (WRME) • **Stuartburn** • Gardenton, 49.079, -96.709 – 1 ♀, 2019-08-28, leg. Shukla-Bergen S., ex. *Helianthus pauciflorus* (WRME) • Tall Grass Prairie Preserve, 49.07, -96.707 – 1 ♂, 2020-08-10, leg. Gibbs J., ex. *Helianthus* (WRME) • **Tache** • Linden, 49.679, -96.895 – 1 ♂, 2019-08-09, leg. Shukla-Bergen S. (WRME) • **Winkler** • Winkler, 49.18, -97.93 – 1 ♀, 1950-09-05, leg. Barrett C.F. (WRME).

Notes. *Protandrena perlaevis* is oligolectic on *Helianthus*. It was previously recorded in a thesis by Patenaude (2007) as *Pseudopanurgus simulans* (Swenk & Cockerell).

APINAE: Bombini

***Bombus (Pyrobombus) impatiens* Cresson 1863** (new provincial record)

Records. • **Glenboro–South Cypress** • CFB Shilo, – 1 ♀, 2016-09-05, (iNaturalist: 41632675) • **Winnipeg** • Fort Whyte, 1 ♀, 2018-08-11 (BumblebeeWatch: 34342) • Bishop Grandin Greenway, 1 ♀, 2018-07-17 (BumblebeeWatch: 35571).

Notes. Three records from Manitoba are known based on photographs submitted to community-science platforms. These have been examined and verified. The species is adventive for the province. It is unclear whether these records represent natural range expansions or escapes from greenhouse populations.

Bombus (Thoracobombus) pensylvanicus (De Geer 1773)

Published records (Sheffield *et al.* 2014). Provincial record.

Material examined. **Ellice–Archie** • McAuley – 1 ♀, 1948-07-18(?), leg. McAuley D.R. (CNC).

Notes. This record was carefully examined to ensure it was not an aberrant colour morph of *B. nevadensis* Cresson. The position of the ocelli, the anterior keel of mandible reaching apical margin, the proximal process of hind basitarsus pointed and longer than broad, and the colour pattern all indicate that this is indeed *B. pensylvanicus*. The colour pattern is distinct from *B. borealis* and *B. fervidus* and the surface sculpturing of tergum five is consistent with that of *B. pensylvanicus*. Although the collector's name and location being identical is suspicious, Douglas Robert McAuley (1929–2019) studied agriculture at the University of Manitoba and was in fact from the town of McAuley, Manitoba. Another *B. pensylvanicus* record from Alberta (Sheffield *et al.* 2014) was subsequently shown by Cory Sheffield to be a misdetermined *B. rufocinctus* (COSEWIC 2018). This is the only known record from the Prairie Provinces. The nearest record known to us is from North Dakota, approximately 275 km southeast.

EUCERINAE: Emphorini

Diadasia (Coquillettapis) diminuta (Cresson 1878) (new provincial record)

Material examined. **Glenboro–South Cypress** • Spruce Woods PP, 49.731, –99.297 – 1 ♀, 2006-07-10, leg. Patenaude A.M. (WRME) • **Two Borders** • Broomhill WMA, 49.413, –101.031 – 1 ♀, 2022-07-12, leg. Miller R. and Freeth E. (WRME).

Notes. *Diadasia diminuta* is oligolectic on *Sphaeralcea* (Malvaceae).

Diadasia (Dasiapis) ochracea (Cockerell 1930) (new Canadian record)

Material examined. **Elton** • 49.9605 –99.8544 – 1 ♀, 2016-08-24 (AAFC) • **Glenboro–South Cypress** • Spruce Woods PP, 49.731, –99.297 – 1 ♀, 2006-07-10, leg. Patenaude A.M. (WRME).

Notes. *Diadasia ochracea* is oligolectic on *Sphaeralcea*.

EUCERINAE: Eucerini

Eucera (Synhalonia) atriventris (Smith 1854) (new Canadian record)

Material examined. • **Brokenhead** • Mars Hill WMA, 50.237, –96.613 – 2 ♀, 2019-06-24, leg. Hanuschuk E. (WRME) • Mars Hill WMA, 50.266, –96.568 – 1 ♂, 2019-06-05, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Spruce Woods PP, 49.7293, –99.2995 – 1 ♂, 2018-05-29, leg. Manitoba Conservation Data Centre (WRME) • **Reynolds** • Sandilands, 49.3, –96.2 – 1 ♀, 1975-05-25, leg. Galloway T. D. (WRME) • Sandilands PF, 49.635, –95.922 – 1 ♂, 2018-05-21, leg. Hanuschuk E. (WRME) • Sandilands PF, 49.694, –95.93 – 1 ♂, 2018-05-21, leg. Hanuschuk E. (WRME) – 1 ♂, 2018-06-13, leg. Hanuschuk E. (WRME) • Ste. Rita (3 km W), 49.89, –96.32 – 1 ♂, 2014-06-07, leg. Wrigley RE

(WRME) • **Springfield** • Nourse (1.6 km N), 49.899, -96.394 – 1 ♀, 2019-06-20, leg. Hanuschuk E. (WRME) • **Ste. Anne** • Giroux, 49.593, -96.594 – 1 ♂, 2019-06-13, leg. Shukla-Bergen S. (WRME) • **Whitemouth** • Seven Sisters Falls, 50.095, -96.042 – 1 ♂, 2018-05-28, leg. Gibbs J. (WRME) • **Whiteshell Provincial Park** • Seven Sisters Falls (9.7 km E), 50.11, -95.887 – 2 ♀, 2018-05-28, leg. Hanuschuk E. (WRME) – 3 ♂, 2018-05-28, leg. Hanuschuk E. (WRME).

Eucera (Synhalonia) cf. chrysobotryae (Cockerell 1908) (new Canadian record)

Material examined. • **Ellice–Archie** • Fort Ellice, 50.4, -101.3 – 1 ♂, 2013-06-20, leg. Wrigley R.E. (WRME) • **St. Lazare**, 50.408376, -101.29426 – 4 ♀, 2015-06-14, leg. Olynyk M. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, -99.392 – 1 ♀, 2019-05-30, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** • Portage Sandhills, 49.8, -98.253 – 1 ♀, 2018-05-16, leg. Manitoba Conservation Data Centre (WRME) • **Stuartburn** • Tall Grass Prairie Preserve, 49.073139, -96.767306 – 1 ♂, 2011-06-06, leg. Semmler S. (WRME) • **Wallace–Woodworth** • Kirkella (1.4 km NW), 50.033, -101.378 – 1 ♀, 2018-06-17, leg. Gibbs J. (WRME)

Notes. The identification of *Eucera (Synhalonia)* is challenging, so additional study of this species is required. The specimen from Fort Ellice above was reported by Wrigley *et al.* (2021).

Eucera (Synhalonia) hamata (Bradley 1942) (new provincial record)

Material examined. • **North Cypress–Langford** • Whitemud WMA, 50.168, -99.278 – 2 ♂, 2022-06-23, leg. Miller R. and Freeth E. (WRME).

Notes. Easily recognized by the apically reflexed tibial spurs.

Melissodes (Eumelissodes) bidentis Cockerell 1914 (new Canadian record)

Material examined. • **Glenboro–South Cypress** • Glenboro (7.5 km W), 49.563, -99.394 – 1 ♀, 2019-08-09, leg. Hanuschuk E. (WRME) • **Spruce Woods PP**, 49.6802, -99.1475 – 1 ♀, 2018-07-02, leg. Manitoba Conservation Data Centre (WRME).

Notes. *Melissodes bidentis* is oligolectic on Compositae. Occurrence in Manitoba confirmed by K. Wright.

Melissodes (Eumelissodes) coreopsis Robertson 1905 (new provincial record)

Material examined. • **Birds Hill PP** – 2 ♂ • **Emerson–Franklin** – 3 ♀ • **Glenboro–South Cypress** – 27 ♀ – 3 ♂ • **Lakeshore** – 2 ♀ • **North Cypress–Langford** – 1 ♀ • **Portage la Prairie (RM)** – 15 ♀ – 4 ♂ • **Reynolds** – 5 ♀ • **Springfield** – 3 ♀ • **Whitemouth** – 1 ♂ • **Winnipeg** – 2 ♀ – 3 ♂.

Notes. *Melissodes coreopsis* is oligolectic on Compositae, primarily *Helianthus*. Its occurrence in Manitoba was confirmed by K. Wright.

Melissodes (Eumelissodes) denticulatus Smith 1854 (new provincial record)

Material examined. • **Emerson–Franklin** • Carlowrie (1.6 km S), 49.237, -96.964 – 1 ♀, 2019-08-15, leg. Hanuschuk E. (WRME) • **Rhineland** • Altona (10 km NW), 49.191, -97.664 – 1 ♀, 2020-08-18–25, leg. Killewald M. (WRME) – 1 ♀, 2021-07-23–30, leg. Killewald M. (WRME).

Notes. *Melissodes denticulatus* is oligolectic on *Vernonia* (Compositae). One specimen was collected approximately 4 km north of the Rat River, where the rare plant *Vernonia fasciculata* has been documented.

***Melissodes (Eumelissodes) menuachus* Cresson 1868** (new provincial record)

Material examined. **Cornwallis** • 1 ♀, 49° 42' 35.3988" N, -99° 39' 19.5624" W – 1 ♀, 2018-06-06, leg. Dubois M. (AAFC) – 1 ♀, 2018-06-12, leg. Dubois M. (AAFC) • **Elton** • 49° 54' 4.68" N, -99° 58' 9.9516" W – 1 ♀, 2018-06-20 (AAFC) • **Glenboro–South Cypress** • Spruce Woods PP, 49.6802, -99.1475 – 1 ♀, 2018-07-02, leg. Manitoba Conservation Data Centre (WRME) • **North Cypress–Langford** • CFB Shilo, 49.83632, -99.58411 – 1 ♂, 2009-06-30, leg. Patterson S. & Chernos C. (WRME).

***Melissodes (Eumelissodes) subagilis* Cockerell 1905** (new provincial record)

Material examined. • **Glenboro–South Cypress** • Aweme, 49.7084, -99.6007 – 2 ♀, 2009-09-23, leg. Patterson S. (WRME).

Notes. *Melissodes subagilis* is oligolectic on *Grindelia*. The first specimens were determined by K. Wright.

***Melissodes (Eumelissodes) trinodis* Robertson 1901** (new provincial record)

Material examined. • Alexander – 4 ♀ • Birds Hill PP – 65 ♀ – 16 ♂ • Brokenhead – 3 ♂ • Cornwallis – 3 ♀ • De Salaberry – 1 ♂ • Dufferin – 1 ♀ – 1 ♂ • Ellice–Archie – 2 ♂ • Emerson–Franklin – 29 ♀ – 4 ♂ • Glenboro–South Cypress – 272 ♀ – 64 ♂ – 8 adults • Hanover – 9 ♀ – 1 ♂ • Lakeshore – 1 ♀ • North Cypress–Langford – 5 ♀ • Piney – 2 ♂ • Portage la Prairie (RM) – 26 ♀ – 9 ♂ • Reynolds – 9 ♀ – 4 ♂ • Ritchot – 15 ♀ – 1 ♂ • Rockwood – 10 ♀ – 7 ♂ – 1 adult • Roland – 1 ♂ • Springfield – 14 ♀ – 17 ♂ • St. Clements – 14 ♀ – 1 ♂ • St. Francois Xavier – 2 ♀ • Stuarburn – 4 ♀ – 4 ♂ • Stuartburn – 340 ♀ – 11 ♂ • Tache – 2 ♂ • Two Borders – 2 ♂ • Whiteshell PP – 2 ♀ – 1 ♂ • Winnipeg – 113 ♀ – 8 ♂ • Woodlands – 3 ♀ – 1 ♂.

Notes. *Melissodes trinodis* is oligolectic on *Helianthus* and related composite flowers. Also recorded in recent theses (Hanuschuk 2021; Martini 2022).

***Melissodes (Eumelissodes) wheeleri* Cockerell 1906** (new provincial record)

Material examined. • Armstrong – 2 ♀ – 2 ♂ • Birds Hill PP – 9 ♀ – 4 ♂ • Brokenhead – 5 ♀ • Cornwallis – 13 ♀ – 10 ♂ • Division 19 – 5 ♀ – 2 ♂ • Ellice–Archie – 20 ♀ • Emerson–Franklin – 3 ♀ – 2 ♂ • Glenboro–South Cypress – 8 ♀ • Grahamdale – 3 ♀ • Hanover – 1 ♀ • North Cypress–Langford – 3 ♂ • Portage la Prairie (RM) – 23 ♀ – 14 ♂ • Reynolds – 3 ♀ – 3 ♂ • Rockwood – 1 ♀ • Shellmouth–Boulton – 1 ♀ • Springfield – 10 ♀ – 2 ♂ • Two Borders – 2 ♀ – 1 ♂ • West Interlake – 1 ♀ • Whitemouth – 1 ♀.

Notes. *Melissodes wheeleri* is oligolectic on Compositae. Identifications were confirmed, in part, by K. Wright. Specimens from Fort Ellice were also reported by Wrigley *et al.* (2021).

***Melissodes (Heliomelissodes) desponsus* Smith 1854** (new provincial record)

Material examined. • **Springfield** • Dugald–Cooks Creek Diversion, 49.90045, -96.88905 – 1 ♀, 2018-08-02, leg. Shaw A. (WRME) • **Stuartburn** • Tall Grass Prairie Preserve, 49.16269, -96.69574 – 1 ♀, 2018-08-13, leg. Miller R. (WRME) • Tall Grass Prairie Preserve, 49.17177, -96.67296 – 1 ♂, 2018-07-17, leg. Miller R. (WRME).

Notes. *Melissodes desponsus* is oligolectic on *Cirsium* (Compositae). A recent molecular phylogeny suggests that *M. (Heliomelissodes)* should be synonymized with *M. (Eumelissodes)* (Wright *et al.* 2020), however, both names were described in the same publication, so priority does not apply. We do not wish to act as first reviser in this context, so do not treat these genus-group names as synonyms.

***Melissodes (Melissodes) bimaculatus bimaculatus (Lepelletier 1825)* (new provincial record)**

Material examined. • **Stanley** • Winkler (3.2 km SW), 49.1672, -97.9777 – 1 ♀, 2019-07-15, leg. Goosen J.P. (WRME) – 5 ♀, 2019-07-18, leg. Goosen J.P. (WRME) – 1 ♂, 2019-07-18, leg. Goosen J.P. (WRME) • **Two Borders** • Broomhill WMA, 49.402, -101.008 – 1 ♀, 2022-08-20, leg. Miller R. and Freeth E. (WRME).

Notes. *Melissodes bimaculatus* is very broadly polylectic. It was also recorded on iNaturalist from Winkler (89156559, 88783054, 88781964) and locations in southern Ontario.

NOMADINAE: Ammobatoidini

***Holcopasites calliopsidis calliopsidis (Linsley 1943)* (new provincial record)**

Material examined. • **Portage la Prairie** • Portage la Prairie, 49.962, -98.293 – 2 ♀, 1974-06-27, leg. Galloway T.D. (WRME) – 2 ♂, 1974-06-27, leg. Galloway T.D. (WRME) • **Rockwood** • Oak Hammock Marsh, 50.182, -97.159 – 1 ♂, 2022-07-14, leg. Miller R. (WRME).

Notes. *Holcopasites calliopsidis* is a cleptoparasite of *Calliopsis andreniformis*. It has also been recorded on iNaturalist (28702638) at Warren, MB, 2019-07-12.

***Holcopasites heliopsis (Robertson 1897)* (new provincial record)**

Material examined. • **Two Borders** • Pierson (7 km E), 49.1811, -101.1662 – 1 ♂, 2019-06-17, leg. Hainsworth S. (WRME) • **Westlake–Gladstone** • Gladstone – 1 ♂, 1958-08-04, Brooks A. Brooks J. (CNC).

Notes. *Holcopasites heliopsis* is an unconfirmed brood parasite of *Calliopsis nebraskensis* Crawford (Hurd and Linsley 1972), but to date we are unaware of that species in Manitoba. The mesoscutellum is distinctly cloven medially, mesepisternum is rugosopunctate, and the setal patches are small relative to the similar *H. pulchellus* (Cresson).

Holcopasites stevensi (Crawford 1915)

Material examined. • **Sifton** • Virden (10.6 km SSE), 49.7736, -100.8414 – 1 ♀, 2021-08-13, leg. Abel O. (CMNC) • **Westbourne** • Westbourne – 9 ♀, 1953-08-27, leg. Brooks A.R. (CNC).

Notes. It is noteworthy that a long series of *Calliopsis coloradensis* Cresson (3 females and 17 males) was collected in the same event at Westbourne. *Calliopsis coloradensis* is only known in Manitoba from a few collecting events and is not a previously recorded hosts of *H. stevensi*. Two other members of the subgenus *C. (Calliopsima)* are confirmed or potential hosts of *H. stevensi* (Rozen 1965).

NOMADINAE: Epeolini

***Tripeolus eliseae Rightmyer 2017 (verbesinae group)* (new provincial record)**

Material examined. • **Rockwood** • Oak Hammock Marsh, 50.175, -97.155 – 1 ♀, 2020-08-26, leg. Gibbs J., ex. *Solidago* (WRME) • **Whitemouth** • Seven Sisters, 50.12, -96.04 – 1 ♀, 1985-07-24, leg. Galloway T.D. (WRME) • **Winnipeg** • Winnipeg, 49.8788, -97.1919 – 1 ♂, 2019-07-12, leg. Gibbs J. (WRME).

***Triepeolus cf. grindeliae* Cockerell 1907** (*verbesinae* group) (new Canadian record)

Material examined. • **Springfield** • Anola, 49.9142, -96.4327 – 1 ♂, 2020-07-12, leg. Miller R. Sereacki L. (WRME) • **Division 19** • Grand Rapids (78 km SSE), 52.516, -98.892 – 1 ♂, 2020-07-31, leg. Shukla-Bergen S. (WRME).

Notes. The *Triepeolus verbesinae* group is taxonomically complex and in need of revision (Rightmyer 2008). This morphospecies differs from *T. eliseae* in the yellowish setae and complete T1 apical band (grey setae and interrupted band in *T. eliseae*). It seems to match the type of *T. grindeliae* from Colorado (Thomas Onuferko, unpublished data), but additional study is needed.

***Triepeolus helianthi* Robertson 1897** (new provincial record)

Material examined. • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.593, -99.346 – 1 ♀, 2019-08-28, leg. Hanuschuk E. (WRME) • Aweme (7.1 km SW), 49.665, -99.677 – 2 ♂, 2018-07-17, leg. Hanuschuk E. (WRME) – 1 ♂, 2018-08-22, leg. Hanuschuk E. (WRME) • Glenboro (7.5 km W), 49.563, -99.394 – 1 ♀, 2019-08-09, leg. Hanuschuk E. (WRME) • Spruce Woods PP, 49.66, -99.28 – 1 ♀, 1978-08-25, leg. Galloway T.D. (WRME) • Spruce Woods PP, 49.6802, -99.1475 – 4 ♀, 2018-07-02, leg. Manitoba Conservation Data Centre (WRME) – 1 ♂, 2018-07-02, leg. Manitoba Conservation Data Centre (WRME) • **Ritchot** • Glenlea, 49.646, -97.138 – 1 ♂, 2018-08-19, leg. Bannerman J. (WRME) • **Rockwood** • Oak Hammock Marsh, 50.175, -97.155 – 2 ♀, 2020-08-26, leg. Gibbs J., ex. *Helianthus* (WRME) – 16 ♀, 2020-08-26, leg. Gibbs J. (WRME) • Oak Hammock Marsh WMA, 50.182, -97.161 – 1 ♂, 2019-08-19, leg. Hanuschuk E., ex. *Helianthus decapetalus* (WRME) • **Sifton** • Pipestone (9.5 km ENE), 49.5967, -100.8256 – 1 ♂, 2019-06-17, leg. Hainsworth S. (WRME) • **Stuartburn** • Tall Grass Prairie Preserve, 49.11847, -96.66463 – 1 ♂, 2018-08-14, leg. Miller R. (WRME) • **Tache** • Linden, 49.679, -96.889 – 1 ♀, 2019-08-09, leg. Shukla-Bergen S. (WRME) • **Winnipeg** • Winnipeg, 49.89, -97.13 – 1 ♀, 1950-08-31, leg. Bergen P. (WRME) • **Woodlands** • Erinview, 50.38574, -97.52912 – 1 ♂, 2019-07-22, leg. Martini M. (WRME).

Notes. Two of the specimens listed above were compared in a recent study of unusually pale specimens of nomadine bees (Onuferko 2021).

***Triepeolus michiganensis* Mitchell, 1962** (new Canadian record)

Material examined. • **Armstrong** • Clematis Wildlife Management Area, 50.61, -97.508 – 1 ♂, 2019-07-24, leg. Hanuschuk E. (WRME).

Notes. Published records of *Triepeolus michiganensis* in Ontario (Romankova 2004) are misidentified, although the species does occur in that province (Thomas Onuferko, unpublished data).

***Triepeolus obliteratus* Graenicher, 1911** (*simplex* group) (new provincial record)]

Material examined. • Armstrong – 1 adult • Birds Hill PP – 2 ♀ – 3 ♂ • Carberry – 1 ♀ (CNC) • Coldwell – 2 ♀ • Division 19 – 1 ♂ • Dufferin – 2 ♀ • Glenboro–South Cypress – 5 ♀ – 11 ♂ – 1 ♀ (CNC) – 1 ♀ (Onuferko coll.) • Grahamdale – 2 ♀ • North Cypress–Langford – 1 ♀ – 1 ♂ • Portage la Prairie – 1 ♀ – 1 ♂ • Portage la Prairie (RM) – 7 ♀ – 6 ♂ • Reynolds – 1 ♂ • Ritchot – 1 ♀ – 1 ♂ • Rockwood – 10 ♀ • Roland – 2 ♀ • Springfield – 1 ♀ – 2 ♂ • St. Andrews – 2 ♀ • St. Clements – 1 ♀ • Stuartburn – 1 ♂ • Tache – 1 ♀ • Wallace–Woodworth – 2 ♀ (CMNC) • Whitemouth – 1 ♀ • Winnipeg – 2 ♀ • Yellowhead – 1 ♀.

Notes. *Triepeolus obliterated* was also recorded on iNaturalist (15971912) and in recent theses (Hanuschuk 2021; Martini 2022).

***Triepeolus occidentalis* (Cresson, 1878)** (new provincial record)

Material examined. • **North Cypress–Langford** • Spruce Woods PP (1.2 km N), 49.812, –99.303 – 1 ♀, 2018-08-29, leg. Hanuschuk E. (WRME) • Spruce Woods PP (4.2 km N), 49.842, –99.251 – 1 ♀, 2018-08-29, leg. Hanuschuk E. (WRME).

Notes. Thomas Onuferko compared the specimens above directly with the lectotype.

***Triepeolus pectoralis* (Robertson 1897)** (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.01, –96.909 – 4 ♀, 2020-08-27, leg. Gibbs J., ex. *Heterotheca* (WRME) – 1 ♀, 2020-08-27, leg. Gibbs J., ex. *Symphyotrichum* (WRME) – 1 ♀, 2020-08-27, leg. Gibbs J. (WRME) • Birds Hill PP, 50.0115, –96.9065 – 1 ♂, 2017-08-05, leg. Gibbs J. & Nozoe G.Y., ex. *Dalea purpurea* (WRME) – 1 ♂, 2017-08-05, leg. Gibbs J. & Nozoe G.Y., ex. *Solidago* (WRME) – 1 ♀, 2017-08-12, leg. Gibbs J. & Nozoe G.Y., ex. *Solidago* (WRME) – 3 ♀, 2017-08-12, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♂, 2017-08-12, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♀, 2017-08-13, leg. Gibbs J. & Nozoe G.Y. (WRME) • **Ellice–Archie** • St. Lazare, 50.403289, –101.31083 – 1 ♀, 2014-08-19, leg. Olynyk M. (WRME) • **Emerson–Franklin** • Carlowrie (3.5 KM SE), 49.238, –96.917 – 1 ♀, 2019-07-29, leg. Hanuschuk E. (WRME) • **Morden** • Morden, 49.18, –98.1 – 1 ♀, 1985-08-20, leg. Leferink J. (WRME) • **Reynolds** • Medika, 49.70731, –95.89994 – 1 ♀, 2019-07-31, leg. Martini M. (WRME) • Sandilands PF, 49.6, –96.1 – 1 ♀, 1983-08-30, leg. Galloway T.D. (WRME) • **Rockwood** • Oak Hammock Marsh, 50.175, –97.155 – 1 ♀, 2020-08-26, leg. Gibbs J., ex. *Symphyotrichum* (WRME) – 3 ♀, 2020-08-26, leg. Gibbs J. (WRME).

Notes. *Melissodes druriellus* (Kirby) has been identified as a likely host. The St. Lazare specimen above was also recorded by Wrigley *et al.* (2021).

***Triepeolus subalpinus* Cockerell, 1910** (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.01, –96.909 – 1 ♀, 2020-08-27, leg. Gibbs J., ex. *Solidago* (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.593, –99.346 – 1 ♀, 2019-08-28, leg. Hanuschuk E. (WRME) • **Rockwood** • Oak Hammock Marsh, 50.172, –97.135 – 1 ♀, 2020-08-12, leg. Gibbs J., ex. *Grindelia squarrosa* (WRME) • Oak Hammock Marsh, 50.175, –97.155 – 1 ♀, 2020-08-26, leg. Gibbs J. (WRME) • **Sifton** • Virden (10.6 km SSE), 49.7736, –100.8414 – 1 ♀, 2021-08-13, leg. Abel O. (CMNC) • **Springfield** • Dugald – Cooks Creek Diversion, 49.90021, –96.79614 – 1 ♂, 2018-07-26, leg. Shaw A. (WRME) • Nourse (4.7 km NW), 49.914, –96.433 – 1 ♂, 2019-08-08, leg. Hanuschuk E., ex. *Erigeron glabellus* (WRME) • **Teulon** • Teulon, 50.38, –97.26 – 1 ♀, 1900-01-00, leg. Hunter A.J. (WRME) • **Winnipeg** • Winnipeg, 49.89, –97.13 – 1 ♀,

1922-08-18, leg. Penkiw N. (WRME); Winnipeg, 49.896, -97.139 – 1 ♂, 1916-08-02, leg. Wallis J.B. (CNC).

NOMADINAE: Melectini

***Brachymelecta californica* (Cresson, 1878)**

Material examined. • **Glenboro–South Cypress** • Treesbank, 49.635, -99.604 – 2 ♀, 2018-07-01, leg. Manitoba Conservation Data Centre (WRME).

Notes. *Brachymelecta californica* has been reported as a cleptoparasite of seven species of *Anthophora* (Hurd and Linsley 1951; Hurd 1979; Orr *et al.* 2016), including two known from Manitoba, *A. bomboides* Kirby and *A. occidentalis* Cresson (Cockerell 1899; Linsley and MacSwain 1942). The Manitoba specimens were collected in a blue vane trap with a long series of *A. occidentalis* and were included in a recent revision of the genus (Onuferko *et al.* 2021).

***Brachymelecta interrupta* (Cresson, 1872) (new Canadian record)**

Material examined. • **Grassland** • Lauder Sandhills WMA, 49.462, -100.689 – 1 ♀, 2022-08-19, leg. Miller R., Freeth E. (WRME).

Notes. The specimen was collected in a blue vane trap. The recorded host, *Anthophora walshii*, has also been collected at Lauder Sandhills.

NOMADINAE: Neolarrini

***Neolarra (Phileremulus) vigilans* (Cockerell 1895) (new provincial record)**

Material examined. • **Glenboro–South Cypress** • Spruce Woods PP, 49.66, -99.28 – 1 ♂, 2018-07-02, leg. Gibbs J., ex. *Dalea candida* (WRME) – 2 ♂, 2019-07-06, leg. Gibbs J., ex. *Dalea candida* (WRME) • Spirit Sands, Spruce Woods PP, 49.6637, -99.2858 – 4 ♀, 2019-07-16, leg. Onuferko T. (CMNC) – 3 ♀ 2 ♂, 2019-07-16, leg. Onuferko T. (Onuferko coll.).

Notes. The expected host of *N. vigilans* in Manitoba is *Perdita perpallida*, based on co-occurrence of these species in the same dune habitat and using the same flowers, *Dalea candida*. It should be noted that other *Perdita* species occur in the vicinity. *Neolarra vigilans* is a widely distributed and highly variable species that is cleptoparasitic on *Perdita* species that do not occur in Manitoba (Shanks 1977). The taxonomy of the species should be revisited.

***Neolarra (Phileremulus) mallochi* (Crawford 1912) stat. rev. (new provincial record)**

Material examined. • **Two Borders** • Bernice WMA, 49.382, -100.851 – 4 ♀ 2 ♂, 2022-08-20, leg. Miller R. and Freeth E. (WRME).

Notes. Considered a synonym of *N. vigilans* by Shanks (1977), the specimens above differ substantially from the specimens from Spruce Woods above and *N. vigilans* we have examined from the southwestern USA. Although colour and pubescence differences between the two populations could be related to local adaptations for dune habitats at Spruce Woods, there are distinct structural differences in the shape of the labrum, orientation of the mandibles, shape of flagellomeres, and shape of the male pygidial plate. The males above seem to match the holotype images of *N. mallochi* at the USNM (available at <https://collections.nmnh.si.edu/search/ento/>). The type locality is Medicine Hat, Alberta. Although Shanks (1977) argued variation was intraspecific, we find it hard to justify so many structural, pubescence, and colour differences for

a single species. DNA barcode data for specimens identified as *N. vigilans* on BOLD show deep divergences suggestive of multiple species. A specimen from Medicine Hat has 11.8% sequence divergence, using a Kimura two-parameter model, from two Spruce Wood specimens.

NOMADINAE: Nomadini

Nomada is certainly one of the most problematic bee taxa in North America. Only eight Manitoban species were recorded in a recent survey of Canadian prairie bees (Sheffield *et al.* 2014). The number is certainly much higher, but the genus is in desperate need of revision. We recognize 29 species/morphospecies for the province but assigning species names confidently is a challenge and many should be considered tentative until the genus is properly revised. Identification of most *Nomada* with bidentate mandibles in North America should be considered with skepticism until revised.

***Nomada alpha* Cockerell 1905** (*ruficornis* group) (new provincial record)

Nomada alpha Cockerell, 1905. Bull. Colo. Agr. Exp. Sta. 94: 81.

Nomada alpha paralpha Cockerell, 1921. Am. Mus. Novit. 24: 3. (new synonymy)

Nomada alpha dialpha Cockerell, 1921. Am. Mus. Novit. 24: 3. (new synonymy)

Material examined. • **Lac du Bonnet** • Milner Ridge, 50.163, -96.242 – 2 ♀, 1989-06-03, leg. Preston W.B. (WRME) • **Reynolds** • Julius Road, 50.06, -96.246 – 1 ♀, 2005-05-17, leg. Wrigley R.E. (WRME) • Sandilands, 49.676, -95.898 – 1 ♀, 2018-05-21, leg. Gibbs J. (WRME) • **St. Andrews** • Lockport, 50.08, -96.942 – 1 ♀, 1976-05-27, leg. Lee J. (WRME) • **Whiteshell Provincial Park** • Red Rock Lake, 49.9, -95.5 – 1 ♀, 1976-05-23, leg. Christie J.E. (WRME).

Notes. *Nomada alpha alpha* has only recently been documented outside of a narrow area in Colorado (Gibbs *et al.* 2017; Fredenburg *et al.* 2021). Two additional subspecies have been recognized—largely based on colour differences—*N. alpha dialpha* Cockerell 1921 and *N. alpha paralpha* Cockerell 1921. Both were collected on the same day from Walden, Colorado and deposited at the AMNH; the nominal subspecies is from Fort Collins, Colorado. All the type localities are within 100 km, with about 1000 m difference in altitude between Walden and Fort Collins. We feel these must be treated as synonyms in the absence of strong support for species-level differences. Recognition of sympatric subspecies with such limited material using superficial differences does not seem appropriate.

***Nomada articulata* Smith 1854** (*erigeronis* group) (new provincial record)

Material examined. • **Armstrong** • Clematis WMA, 50.61, -97.508 – 1 ♀, 2019-05-06, leg. Hanuschuk E. (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 50.011, -96.93 – 1 ♂, 2018-05-25, leg. Hanuschuk E., *ex. Fragaria* (WRME) • **Brokenhead** • Libau (13.5 km E), 50.251, -96.512 – 1 ♀, 2019-06-05, leg. Hanuschuk E. (WRME) • Mars Hill WMA, 50.237, -96.613 – 1 ♂, 2019-06-05, leg. Hanuschuk E. (WRME) • **Cornwallis** • CFB Shilo (4.3 km NW), 49.828, -99.689 – 1 ♂, 2019-05-23, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Aweme, 49.7084, -99.6007 – 1 ♀, 2010-06-02, leg. Wareham K. & Patterson S. (WRME) • CFB Shilo, 49.83632, -99.5841060488699 – 1 ♀, 2011-06-30, leg. Wareham K. & Patterson S. (WRME) • Spruce Woods PP, 49.6603, -99.269 – 1 ♀, 2019-06-09, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.7293, -99.2995 – 1 ♀, 2018-05-29, leg. Manitoba Conservation Data Centre (WRME) • **North Cypress–Langford** • CFB Shilo,

49.836112, -99.5844650993228 – 1 ♀, 2011-06-23, leg. Wareham K. & Patterson S. (WRME) – 4 ♀, 2011-06-28, leg. Wareham K. & Patterson S. (WRME) – 1 ♀, 2011-06-30, leg. Wareham K. & Patterson S. (WRME) • CFB Shilo (5 km NE), 49.836, -99.584 – 1 ♂, 2019-05-23, leg. Hanuschuk E. (WRME) • **Piney** • Badger, 49.118, -95.979 – 1 ♂, 2019-06-11, leg. Shukla-Bergen S. (WRME) • **Portage la Prairie (RM)** • Portage La Prairie (4.6 km SW), 49.93, -98.33 – 1 ♀, 2018-06-04, leg. Hanuschuk E. (WRME) • Portage la Prairie (8.7 km S), 49.887, -98.297 – 2 ♀, 2018-06-04, leg. Hanuschuk E. (WRME) – 1 ♀, 2018-06-27, leg. Hanuschuk E. (WRME) • Portage Sand Hills WMA (2.5 km E), 49.799, -98.217 – 1 ♂, 2019-06-14, leg. Tanner J., ex. *Crepis tectorum* (WRME) – 1 ♀, 2019-07-05, leg. Hanuschuk E. (WRME) • Portage Sand Hills WMA (3 km W), 49.8, -98.324 – 1 ♀, 2019-07-05, leg. Hanuschuk E. (WRME) • Portage Sand Hills WMA (6.5 km E), 49.798, -98.165 – 1 ♂, 2019-06-14, leg. Hanuschuk E., ex. *Erigeron annuus* (WRME) • **Sifton** • Virden (10.7 km SSE), 49.7710, -100.8448 – 1 ♀, 2021-07-23, leg. Abel O. (CMNC).

Notes. *Nomada articulata* attacks nests of *Agapostemon*, including *A. virescens* and *A. sericeus* (Abrams and Eickwort 1980, 1981; Eickwort and Abrams 1980).

***Nomada australis* Mitchell 1962 (*erigeronis* group) (new provincial record)**

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.011, -96.902 – 1 ♀, 2019-06-13, leg. Gibbs J., ex. *Cornus* (WRME) • Birds Hill PP, 50.014, -96.918 – 1 ♀, 2019-06-27, leg. Nozoe & Gibbs (WRME) • Birds Hill PP, 50.033, -96.862 – 2 ♀, 2019-06-13, leg. Gibbs J. (WRME) – 1 ♂, 2019-06-13, leg. Gibbs J. (WRME) • **Brokenhead** • Mars Hill WMA, 50.266, -96.568 – 1 ♀, 2019-06-24, leg. Hanuschuk E. (WRME) • Mars Sandhills, 50.267, -96.5745 – 1 ♀, 2020-05-31, leg. Miller R. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, -99.392 – 1 ♀, 2019-06-26, leg. Hanuschuk E. (WRME) • CFB Shilo, 49.83632, -99.5841060488699 – 1 ♀, 2011-06-28, leg. Wareham K. & Patterson S. (WRME) • Spruce Woods PP, 49.6604, -99.2688 – 3 ♂, 2017-05-27, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.664, -99.29 – 1 ♀, 2017-05-27, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.6905, -99.2668 – 1 ♀, 2018-05-29, leg. Manitoba Conservation Data Centre (WRME) • **Lac du Bonnet** • Seddons Corner (6 km E), 50.0625, -96.2003 – 4 ♀, 2020-06-06, leg. Wrigley R.E. (WRME) • **Reynolds** • Sandilands, 49.676, -95.898 – 1 ♀, 2018-05-21, leg. Gibbs J. (WRME) • **Stuartburn** • Lonesand, 49.221, -96.309 – 1 ♀, 2019-06-04, leg. Shukla-Bergen S. (WRME).

Notes. *Nomada australis* likely attacks nests of *Agapostemon splendens* based on frequent co-occurrence, and the behaviour of its close relative *N. articulata*.

***Nomada banksi* Cockerell 1907 (*ruficornis* group) (new provincial record)**

Material examined. • **Portage la Prairie (RM)** • Portage Sandhills, 49.798, -98.239 – 1 ♀, 2020-08-18, leg. Gibbs J. (WRME) – 1 ♀, 2020-08-18, leg. Gibbs J., ex. *Solidago* (WRME).

Notes. One of very few late summer *Nomada* in the province, *Nomada banksi* likely attacks *Andrena asteris* Robertson (Ascher *et al.* 2014), which was also collected in the same location.

***Nomada composita* Mitchell 1962 (*ruficornis* group) (new provincial record)**

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.02, -96.88 – 1 ♂, 1981-06-28, leg. Galloway T.D. (WRME) • **Cartier** • St. Eustache, 49.98645, -97.84953 – 1 ♀,

2019-07-18, leg. Martini M. (WRME) • **Franklin** • Senkiw, 49.2064, -96.8717 – 1 ♂,
2020-05-16, leg. Miller R. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA
– 3 ♀, 2005-05-24 (WRME) • Treesbank (8 km N) – 1 ♂, 1992-05-28, leg. Henne D.C.,
(WRME) • **Hanover** • Mitchell, 49.545, -96.782 – 1 ♂, 2019-06-18, leg. Shukla-Bergen S.
(WRME) • **Portage la Prairie (RM)** • Portage la Prairie (14 km N), 50.105, -98.33 – 3 ♀,
2001-07-12, leg. Elliott B., ex. *Daucus carota* (WRME) – 1 ♂, 2001-07-12, leg. Elliott B., ex.
Daucus carota (WRME) • **Ritchot** • La Barriere Park, 49.72, -97.17 – 1 ♀, 1978-06-13, leg.
Broatch J. (WRME) • **Rockwood** • Norris Lake PP, 50.483, -97.419 – 1 ♀, 2019-06-06, leg.
Gibbs J., ex. *Prunus virginiana* (WRME) • **Ste. Anne** • La Coulée, 49.646, -96.584 – 1 ♂,
2019-06-12, leg. Shukla-Bergen S. (WRME) • **Yellowhead** • Shoal Lake,
50.4600844, -100.52033 – 1 ♀, 2014-08-07, leg. Olynyk M. (WRME).

***Nomada crawfordi crawfordi* Cockerell 1905 (*ruficornis* group) (new Canadian record)**

Material examined. • **Brandon** • Brandon, 49.83, -99.85 – 1 ♂, 1980-07-01, leg.
Bygarski W. (WRME) • **Cartier** • St. Eustache, 49.98645, -97.84953 – 4 ♀, 2019-07-18, leg.
Martini M. (WRME) – 1 ♂, 2019-07-18, leg. Martini M. (WRME) • **Dufferin** • Carman,
49.498, -98.043 – 2 ♀, 2018-07-17, leg. Bannerman J. (WRME) • Carman, 49.499, -99.036 –
1 ♀, 2018-07-10, ex. *Brassica* (WRME) • **Norfolk Treherne** • Rathwell, 49.60625, -98.55692 –
1 ♀, 2019-07-23, leg. Martini M. (WRME) • **Rockwood** • Oak Hammock Marsh WMA,
50.182, -97.161 – 1 ♀, 2019-07-12, leg. Hanuschuk E., ex. *Melilotus alba* (WRME) •
St. Francois Xavier • St. Francois Xavier, 49.95047, -97.52193 – 1 ♂, 2019-07-18, leg.
Martini M. (WRME).

Notes. *Nomada crawfordi* is a large distinctive species. Comparisons were made with
other similarly large, well-maculated species in museum collections to confirm the identity.
Although it is uncommonly collected, it does not appear to be restricted to pristine habitat.
Andrena lupinorum Cockerell and *A. miranda* Smith were captured in Carman during the same
period.

***Nomada denticulata* Robertson 1902 (*ruficornis* group) (new provincial record)**

Material examined. • **Armstrong** • Sandridge WMA, 50.581, -97.495 – 1 ♀, 2019-06-27,
leg. Hanuschuk E. (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 50.033, -96.863 –
1 ♀, 2018-05-25, leg. Hanuschuk E. (WRME) • **North Cypress–Langford** • CFB Shilo,
49.836112, -99.5844650993228 – 2 ♀, 2011-06-23, leg. Wareham K. & Patterson S. (WRME) •
Portage la Prairie (RM) • Portage la Prairie (10 km E), 49.95, -98.13 – 1 ♂, 2001-07-11, leg.
Elliott B., ex. *Daucus carota/Raphanus sativus* (WRME) • Portage La Prairie (4.6 km SW),
49.93, -98.33 – 1 ♀, 2018-06-04, leg. Hanuschuk E. (WRME) • **Reynolds** • Hadashville,
49.676, -95.898 – 2 ♀, 2018-05-21, leg. Hanuschuk E. (WRME) • Sandilands, 49.6, -96.1 –
1 ♀, 1976-05-19, leg. Galloway T.D. (WRME) – 1 ♀, 1976-05-22, leg. Galloway T.D. (WRME)
• **Ste. Anne** • Giroux, 49.5926375, -96.593721 – 1 ♂, 2019-05-13, leg. Shukla-Bergen S.
(WRME) • **Whitemouth** • Seven Sisters, 50.07689, -96.09504 – 1 ♀, 1984-05-29, leg.
Galloway T.D. (WRME) • Seven Sisters, 50.12, -96.04 – 2 ♀, 1980-05-20, leg. Galloway T.D.
(WRME) – 1 ♀, 1980-05-27, leg. Galloway T.D. (WRME) – 1 ♀, 1981-06-01, leg.
Galloway T.D. (WRME) – 1 ♀, 1983-06-07, leg. Galloway T.D. (WRME).

***Nomada depressa* Cresson 1863 (*ruficornis* group) (new provincial record)**

Material examined. • **Winnipeg** • Winnipeg, 49.8129, -97.1427 – 1 ♂, 2018-05-19, leg. Gibbs J., ex. *Amelanchier* (WRME) • Winnipeg, 49.8685, -97.163 – 1 ♀, 1990-05-28, leg. Preston W.B. (WRME) – 3 ♀, 1990-05-29, leg. Preston W.B. (WRME) – 1 ♀, 1990-06-16, leg. Preston W.B. (WRME) – 1 ♀, 1993-05-22, leg. Preston W.B. (WRME) – 1 ♀, 1995-05-25, leg. Preston W.B. (WRME) • Winnipeg, 49.8685, -97.1628 – 1 ♀, 1989-05-20, leg. Preston W.B. (WRME) • Winnipeg, 49.88, -97.17 – 1 ♀, 1908-05-30, leg. Wallis J.B. (WRME).

***Nomada fervida* Smith 1854** (*vegana* group) (new provincial record)

Nomada arenicola Swenk 1912 (new synonymy)

Material examined. • **Dufferin** • Roseisle, 49.57298, -98.41458 – 1 ♀, 2019-07-23, leg. Martini M. (WRME) • **Glenboro–South Cypress** • Parsons Hill, 49.6826, -99.2696 – 1 ♂, 2018-07-02, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.66, -99.28 – 3 ♂, 2018-06-22, leg. Gibbs J., ex. *Euphorbia esula* (WRME) – 1 ♀, 2018-06-22, leg. Gibbs J. (WRME) – 4 ♂, 2018-06-22, leg. Gibbs J. (WRME) – 3 ♂, 2018-07-02, leg. Gibbs J. (WRME) – 1 ♀, 2019-07-06, leg. Gibbs J., ex. *Heterotheca* (WRME) • YellowQuill 28, 49.69111, -99.57472 – 1 ♀, 2006-05-16, leg. Patenaude A. (WRME) • Spirit Sands, Spruce Woods PP, 49.6637, -99.2858 – 1 ♀, 2019-07-16, leg. Onuferko T. (Onuferko coll.) – 2 ♂, 2019-07-16, leg. Onuferko T. (Onuferko coll.) • **North Cypress–Langford** • CFB Shilo (5 km NE), 49.836, -99.584 – 1 ♂, 2019-08-21, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** • Portage Sand Hills WMA (2.5 km E), 49.799, -98.217 – 2 ♂, 2019-07-05, leg. Hanuschuk E. (WRME) • Portage la Prairie (8.7 km S), 49.887, -98.297 – 1 ♂, 2018-06-27, leg. Chhoker K. (WRME).

Notes. Comparison of *N. arenicola* from the Great Plains to *N. fervida*, ostensibly limited to sandy habitats of eastern North America, revealed no anatomical differences. DNA barcodes of Manitoban specimens match published *N. fervida* sequences (Droege *et al.* 2010). Droege *et al.* (2010) noted it was strange that *N. fervida* did not occur in the Nebraska Sand Hills, which is where the type series of *N. arenicola* was collected. This synonymy was also proposed in unpublished notes by Roy Snelling. This species was also recorded on iNaturalist (14326650).

***Nomada cf. florilega* Lovell and Cockerell 1905** (*ruficornis* group)

Material examined. • **De Salaberry** • Otterburne, 49.481, -97.012 – 1 ♂, 2019-06-26, leg. Shukla-Bergen S. (WRME) • **Division 19** • Gypsumville (67.5 km NNW), 52.354, -98.888 – 1 ♀, 2020-07-06, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) – 1 ♀, 2020-07-21, leg. Martini M., ex. *Melilotus albus* (WRME) – 1 ♀, 2020-07-21, leg. Shukla-Bergen S., ex. *Solidago ptarmicodes* (WRME) • **Dufferin** • Carman, 49.498, -98.043 – 1 ♀, 2018-07-12, leg. Bannerman J. (WRME) • **Ellice–Archie** • St Lazare, 50.408376, -101.29426 – 1 ♀, 2015-07-02, leg. Olynyk M. (WRME) • **Lac du Bonnet** • Seddons Corner (6 km E), 50.0625, -96.2003 – 1 ♀, 2020-06-06, leg. Wrigley R.E. (WRME) • **Piney** • Spur Woods Wildlife Management Area, 49.0881, -96.0868 – 1 ♀, 2019-06-14, leg. Nakagawa P. (WRME) • **Prairie View** • Solsgirth, 50.573921, -100.90137 – 1 ♀, 2015-06-30, leg. Olynyk M. (WRME).

Notes. It would be premature to apply this name with confidence, but this certainly represents a distinctive morphospecies for the province. These specimens seem allied to *N. pygmaea* Cresson, but additional study is needed to confirm their identity.

***Nomada fuscicincta* Swenk 1915** (*ruficornis* group: bidentate mandible) (new Canadian record)

Material examined. • **Brokenhead** • Libau (13.5 km E), 50.251, –96.512 – 1 ♀, 2019-06-24, leg. Hanuschuk E., ex. *Zizia aurea* (WRME) • **Emerson–Franklin** • Senkiw, 49.207, –96.872 – 6 ♂, 2019-06-10, leg. Hanuschuk E., ex. *Zizia aurea* (WRME) – 1 ♂, 2019-06-10, leg. Tanner J., ex. *Zizia aurea* (WRME) • Senkiw (3.3 km W), 49.209, –96.917 – 1 ♀, 2019-06-10, leg. Hanuschuk E. (WRME) • **Franklin** • Carlowrie, 49.2378, –96.9166 – 1 ♀, 2020-06-27, leg. Miller R. (WRME) • **Hanover** • Friedensfeld, 49.458, –96.714 – 1 ♂, 2019-06-19, leg. Shukla-Bergen S. (WRME) • Trentham, 49.399, –96.661 – 2 ♀, 2019-06-10, leg. Shukla-Bergen S., ex. *Zizia aurea* (WRME) – 2 ♂, 2019-06-10, leg. Shukla-Bergen S., ex. *Zizia aurea* (WRME) • **Winnipeg** • Winnipeg, 49.854, –97.246 – 1 ♀, 2018-06-15, leg. Hanuschuk E. (WRME).

Notes. The small size of *N. fuscicincta* and its co-occurrence with the small *Andrena ziziae* Robertson, suggest a likely host–cleptoparasite relationship. The identification of this poorly recorded species was made through comparison to specimens from the type series at BBSL.

***Nomada gracilis* Cresson 1863 (*ruficornis* group) (new provincial record)**

Material examined. • **Emerson–Franklin** • Senkiw, 49.207, –99.872 – 1 ♀, 2019-05-17, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Aweme, 49.71, –99.6 – 1 ♀, 1933-05-13, leg. Criddle N. (WRME) • **Winnipeg** • Winnipeg, 49.9043, –97.0214 – 1 ♂, 2020-04-23, leg. Miller R. (WRME).

Notes. *Nomada gracilis* is a relatively distinctive early-spring species. It is treated here as a senior synonym of *N. inepta* Mitchell 1962, following Sheffield *et al.* (2009). This species was recorded using the latter name in a thesis (Hanuschuk 2021).

***Nomada integerrima* Dalla Torre 1896 (*ruficornis* group) (new provincial record)**

Material examined. • **Brandon** • Brandon, 49.83, –99.95 – 1 ♂, 1948-06-09, leg. Robinson A.G., ex. *Gooseberry* (WRME) • **Cornwallis** • CFB Shilo (4.5 km SW), 49.778, –99.689 – 1 ♂, 2019-05-23, leg. Hanuschuk E. (WRME) • **Duck Mountain Provincial Park** • East Blue Lake, 51.59, –100.91 – 2 ♀, 1974-06-08, leg. Galloway T.D. (WRME) • East Blue Lake, 51.606, –100.914 – 1 ♀, 1974-06-08, leg. Galloway T.D. (WRME) • **Emerson–Franklin** • Senkiw, 49.207, –96.872 – 1 ♀, 2019-06-10, leg. Hanuschuk E. (WRME) • **Franklin** • Senkiw, 49.2064, –96.8717 – 1 ♂, 2020-05-16, leg. Miller R. (WRME) • **Gillam** • Hwy 280 E of Gillam, 56.3314, –94.4931 – 3 ♀, 2015-06-21, leg. Lawton T. (WRME) – 2 ♂, 2015-06-21, leg. Lawton T. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, –99.392 – 1 ♀, 2019-05-30, leg. Hanuschuk E. (WRME) • Assiniboine Corridor WMA – 3 ♀, 2005-05-24 (WRME) – 1 ♂, 2005-05-24 (WRME) • Glenboro (7.5 km W), 49.563, –99.394 – 2 ♀, 2019-06-26, leg. Hanuschuk E. (WRME) • Spruce Woods PP, 49.664, –99.29 – 1 ♀, 2017-05-27, leg. Gibbs J. (WRME) – 1 ♂, 2017-05-27, leg. Gibbs J. (WRME) • Spirit Sands, 49.6637, –99.2858 – 1 ♀, 2019-06-18, leg. Onuferko T.M. (CMNC) • **North Cypress–Langford** • CFB Shilo (5 km NE), 49.836, –99.584 – 1 ♂, 2019-05-23, leg. Hanuschuk E. (WRME) • Spruce Woods PP (4.2 km N), 49.842, –99.251 – 1 ♀, 2018-06-09, leg. Hanuschuk E. (WRME) • **Reynolds** • Hadashville, 49.676, –95.898 – 2 ♀, 2018-06-13, leg. Hanuschuk E. (WRME) • **Winnipeg** • Winnipeg, 49.89, –97.13 – 1 ♂, 1922-05-10, leg. Pankiw N. (WRME).

Notes. Identification of *N. integerrima* was based on notes taken by Jason Gibbs of the type series at INHS.

***Nomada lehighensis* Cockerell 1903** (*ruficornis* group)

Material examined. • **Armstrong** • Inwood (7.1 km NNW), 50.566, -97.546 – 1 ♀, 2019-06-06, leg. Hanuschuk E. (WRME) • **Brandon** • Brandon, 49.83, -99.95 – 1 ♀, 1950-06-21, leg. Barrett C.F., ex. *Euphorbia esula* (WRME) – 1 ♀, 1950-06-21, leg. Bird R.D., ex. *Euphorbia esula* (WRME) – 1 ♀, 1950-06-21, leg. Bird R.D. (WRME) – 1 ♀, 1950-06-21, leg. Stephen W.P, ex. *Cornus sp.* (WRME) – 2 ♀, 1950-06-21, leg. Stephen W.P, ex. *Euphorbia esula* (WRME) • **Ellice–Archie** • St Lazare, 50.408376, -101.29426 – 1 ♀, 2015-06-14, leg. Olynyk M. (WRME) • **Emerson–Franklin** • Carlowrie (1.6 km S), 49.237, -96.964 – 2 ♀, 2019-06-10, leg. Hanuschuk E. (WRME) • **Lac Du Bonnet** • Seddon’s Corner (15 km E), 50.062, -96.082 – 1 ♀, 1980-05-28, leg. Arntfield P.W. (WRME) • **Portage la Prairie** • Portage la Prairie, 49.9623, -98.2911 – 1 ♀, 2020-06-13, leg. Miller R. Sorokowski B. (WRME) • **Portage la Prairie (RM)** • Portage La Prairie (8 km SW), 49.901, -98.343 – 1 ♂, 2018-06-04, leg. Hanuschuk E. (WRME) • Portage Sand Hills WMA (6.5 km E), 49.798, -98.165 – 1 ♀, 2019-06-14, leg. Hanuschuk E., ex. *Erigeron glabellus* (WRME) – 4 ♀, 2019-06-14, leg. Hanuschuk E. (WRME) • **Springfield** • Nourse (3.3 km W), 49.895, -96.43 – 1 ♂, 2019-05-29, leg. Hanuschuk E. (WRME) • **Victoria Beach** • Victoria Beach, 50.784, -96.592 – 1 ♀, 1986-07-05, leg. Manaire L. (WRME) • **Whitemouth** • Seven Sisters, 50.12, -96.04 – 1 ♀, 1982-07-22, leg. Galloway T.D. (WRME) • Seven Sisters Falls, 50.095, -96.042 – 2 ♀, 2018-05-28, leg. Gibbs J. (WRME) • **Whiteshell Provincial Park** • Whiteshell PP, 49.74, -95.2 – 1 ♀, 1989-07-01, leg. Mackay A. J. (WRME) • **Winnipeg** • Winnipeg, 49.89, -97.13 – 1 ♀, 1930-06-27, leg. Cumming W.A. (WRME) – 1 ♀, 1931-06-17, leg. Cumming W. A. (WRME) • Winnipeg, 49.88, -97.17 – 2 ♀, 2020-06-02, leg. Wrigley R.E. (WRME).

Notes. *Nomada lehighensis* was also reported by Wrigley *et al.* (2021) based on material examined for this study.

***Nomada luteoloides* Robertson 1895** (*ruficornis* group) (new provincial record)

Material examined. • **Reynolds** • Sandilands, 49.6, -96.1 – 1 ♂, 1976-05-22, leg. Madder M.C.A. (WRME).

Notes. *Nomada luteoloides* is a cleptoparasite of *Andrena carlini* Cockerell (Goldstein and Ascher 2016).

***Nomada obliterata* Cresson 1863** (*ruficornis* group) (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.033, -96.862 – 1 ♀, 2019-06-13, leg. Gibbs J. (WRME) • **Franklin** • Senkiw, 49.2064, -96.8717 – 3 ♀, 2020-05-16, leg. Miller R. (WRME) – 4 ♂, 2020-05-16, leg. Miller R. (WRME) • **Lac du Bonnet** • Seddons Corner (6 km E), 50.0625, -96.2003 – 1 ♀, 2020-06-06, leg. Wrigley R.E. (WRME) • **Portage la Prairie** • Portage la Prairie, 49.97, -98.3 – 1 ♀, 1980-05-18, leg. Galloway T.D. (WRME) • **Portage la Prairie (RM)** • Portage La Prairie (4.6 km SW), 49.93, -98.33 – 1 ♀, 2018-06-04, leg. Hanuschuk E. (WRME) • **Reynolds** • Hadashville, 49.676, -95.899 – 1 ♀, 2019-05-28, leg. Shukla-Bergen S. (WRME) • Hadashville, 49.676, -95.898 – 2 ♀, 2018-05-21, leg. Hanuschuk E. (WRME) – 1 ♂, 2018-05-21, leg. Hanuschuk E. (WRME) • Hadashville, 49.6761, -95.8984 – 2 ♀, 2019-05-28, leg. Morgan K. (WRME) • Hadashville (3.7 km N), 49.712, -95.899 – 1 ♂, 2018-05-21, leg. Hanuschuk E. (WRME) • **Stuartburn** • Lonesand, 49.174, -96.427 – 1 ♀, 2019-06-04, leg. Shukla-Bergen S. (WRME) • Lonesand, 49.193, -96.366 – 1 ♂, 2019-06-04,

leg. Shukla-Bergen S., ex. *Taraxacum officinale* (WRME) • **Whitemouth** • Seven Sisters Falls, 50.095, -96.042 – 2 ♀, 2018-05-28, leg. Gibbs J. (WRME).

Notes. *Nomada obliterated* is an unusual species for having only two submarginal cells.

***Nomada ovata* Robertson 1903** (*ruficornis* group: bidentate mandible)

Material examined. • **De Salaberry** • St-Pierre-Jolys, 49.428, -96.929 – 1 ♂, 2019-06-24, leg. Shukla-Bergen S. (WRME) • **Ellice–Archie** • St. Lazare, 50.48376, -101.29426 – 1 ♀, 2015-06-14, leg. Oylnyk M. (WRME) – 1 ♀, 2015-07-02, leg. Oylnyk M. (WRME) • **Franklin** • Senkiw, 49.2064, -96.8717 – 1 ♂, 2020-05-16, leg. Miller R. (WRME) • **Hecla/Grindstone Provincial Park** • Hecla, 51.1, -96.7 – 1 ♀, 1926-06-08, leg. Hunter A.J. (WRME) • **Shellmouth–Boulton** • Shellmouth, 50.942836, -101.41199 – 1 ♀, 2015-06-14, leg. Oylnyk M. (WRME) • **Whitemouth** • Seven Sisters, 50.12, -96.04 – 1 ♀, 1983-06-09, leg. Galloway T.D. (WRME) • **Yellowhead** • Elphinstone, 50.603652, -100.27767 – 1 ♀, 2015-06-11, leg. Oylnyk M. (WRME).

Notes. *Nomada ovata* was reported previously by Wrigley *et al.* (2021) based on material examined for this study. Several names have been treated as synonyms of *N. ovata* (Alexander and Schwarz 1994) and these and other bidentate species need renewed study.

***Nomada quadrimaculata* (Robertson 1903)** (*ruficornis* group: bidentate mandible) (new Canadian record)

Material examined. • **Clanwilliam–Erickson** • Erickson, 50.49, -99.91 – 1 ♀, 1987-06-26, leg. Pengelly D.H. (WRME) • **Coldwell** • Oak Point (6 km NNE), 50.552, -97.977 – 1 ♀, 2020-06-23, leg. Martini M., ex. *Packera paupercula* (WRME) • **Division 19** • Gypsumville (67.5 km NNW), 52.354, -98.888 – 1 ♀, 2020-07-21, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) – 1 ♀, 2020-07-30, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.593, -99.346 – 1 ♀, 2019-05-30, leg. Hanuschuk E. (WRME) • **Piney** • Spur Woods WWMA, 49.0881, -96.0868 – 1 ♀, 2019-06-14, leg. Nakagawa P. (WRME) • **Springfield** • Hazel (5 mi E), 49.9, -96.7 – 1 ♀, 1970-06-21, leg. Preston W.B. (WRME) • **St. Clements** • Beaconia, 50.44, -96.55 – 1 ♀, 1976-05-23, leg. Adams E.E. (WRME) • **Whiteshell Provincial Park** • Whiteshell, 49.8, -95.4 – 1 ♂, 1949-06-07, leg. Ives W.G.H. (WRME) • **Winnipeg** • Winnipeg, 49.81, -97.137 – 1 ♀, 2017-05-05, leg. Gibbs J. (WRME).

Notes. *Nomada quadrimaculata* has often been considered a synonym of *N. ovata*. The name was resurrected by Gibbs *et al.* (2017) in a checklist of Michigan bees. Identification of most *Nomada* with bidentate mandibles in North America should be considered with skepticism until revised.

***Nomada rubicunda* Olivier 1811** (*erigeronis* group) (new Canadian record)

Material examined. • **Glenboro–South Cypress** • Carberry Sandhills, 49.64, -99.36 – 1 ♀, 2012-06-23, leg. Wrigley R.E. (WRME) • Spirit Sands, 49.664, -99.2951 – 1 ♀, 2019-06-18, leg. Onuferko T.M. (CMNC).

Notes. Restricted to sandy sites where it frequently co-occurs with *Agapostemon splendens*, its likely host (Gibbs *et al.* 2017).

***Nomada sphaerogaster* Cockerell 1903** (*ruficornis* group) (new Canadian record)

Material examined. • **Armstrong** • Inwood (7.1 km NNW), 50.566, -97.546 – 1 ♂, 2019-05-14, leg. Hanuschuk E. (WRME) • **Emerson–Franklin** • Senkiw (3.3 km W), 49.209, -96.917 – 1 ♀, 2019-05-17, leg. Hanuschuk E. (WRME).

Notes. *Nomada sphaerogaster* is a poorly known species. Notes on its taxonomic history were provided in Gibbs *et al.* (2017).

***Nomada valida* Smith 1854** (*ruficornis* group) (new provincial record)

Material examined. • **Glenboro–South Cypress** • Spruce Woods PP, 49.7293, -99.2995 – 1 ♀, 2018-05-29, leg. Manitoba Conservation Data Centre (WRME) • **Reynolds** • Sandilands, 49.6, -96.1 – 1 ♀, 1975-05-09, leg. Galloway T.D. (WRME).

***Nomada vicina* Cresson 1863** (*ruficornis* group) (new provincial record)

Material examined. • **North Cypress–Langford** • Whitemud WMA, 49.765 –98.708 – 1 ♀, 2022-09-01, leg. Martini M. (WRME) • Whitemud WMA, 49.947, -99.228 – 1 ♀, 2022-09-02, leg. Miller R. and Martini M. (WRME).

Notes. The presumed host species, *Andrena hirticincta*, based on co-occurrence and flight seasons (Ascher *et al.* 2014) was also collected at the same time.

***Nomada xantholepis* Cockerell 1911** (*ruficornis* group) (new Canadian record)

Material examined. • **Brandon** • Brandon, 49.83, -99.95 – 1 ♂, 1980-07-23, leg. Bygarski W. (WRME) • **Portage la Prairie** • Portage, 49.9, -98.29 – 1 ♂, 1978-07-08, leg. Broatch J. (WRME) • **Winnipeg** • Winnipeg, 49.875, -97.16 – 1 ♂, 2017-05-13, leg. Gibbs J. (WRME).

Notes. *Nomada xantholepis* is a large and distinctive species with strong metasomal banding. It was identified using images of the holotype provided by the USNM (available at <https://collections.nmnh.si.edu/search/ento/>).

XYLOCOPINAE: Ceratinini

***Ceratina (Zadontomerus) mikmaqi* Rehan & Sheffield 2011** (new provincial record)

Material examined. • Alexander – 2 ♀ • Armstrong – 10 ♀ – 1 ♂ • Birds Hill PP – 62 ♀ – 22 ♂ • Brokenhead – 27 ♀ – 4 ♂ • Coldwell – 1 ♀ • Dallas/Red Rose–Northern Affairs Act – 2 ♀ • De Salaberry – 2 ♀ • Division 19 – 15 ♀ – 1 ♂ • Emerson–Franklin – 28 ♀ – 5 ♂ • Franklin – 1 ♀ • Glenboro–South Cypress – 11 ♀ – 7 ♂ – 1 ♂ (CMNC) • Grahamdale – 10 ♀ • Hanover – 16 ♀ – 18 ♂ • La Broquerie – 2 ♀ • Lac du Bonnet – 2 ♀ • Lakeshore – 1 ♀ • Montcalm – 1 ♀ – 4 ♂ • Pinawa – 1 ♀ • Piney – 13 ♀ – 1 ♂ • Portage la Prairie – 7 ♀ – 2 ♂ • Portage la Prairie (RM) – 38 ♀ – 28 ♂ • Reynolds – 65 ♀ – 22 ♂ • Ritchot – 1 ♀ • Rockwood – 5 ♀ – 7 ♂ – 1 adult • Saint Laurent – 2 ♀ • Sifton – 12 ♀ – 1 ♂ (CMNC) • Springfield – 13 ♀ – 25 ♂ • St. Clements – 5 ♀ – 4 ♂ • St. Francois Xavier – 3 ♂ • Ste. Anne – 23 ♀ – 23 ♂ • Stuartburn – 13 ♀ – 15 ♂ • Tache – 1 ♀ • Teulon – 1 ♀ • Two Borders – 1 ♀ • Wallace–Woodworth – 1 ♀ – 7 ♂ – 2 ♀ (CMNC) • West Interlake – 5 ♀ • Whitemouth – 21 ♀ – 9 ♂ • Whiteshell PP – 8 ♀ – 13 ♂ • Winnipeg – 68 ♀ – 24 ♂ • Woodlands – 6 ♀.

Notes. Prior to its description, *Ceratina mikmaqi* was confused with *C. dupla* Say and *C. calcarata* Robertson (Rehan and Sheffield 2011). Although it has not been recognized previously from the province, it is quite common.

COLLETINAE: Colletini

***Colletes hyalinus hyalinus* Provancher 1888** (*hyalinus* group) (new provincial record)

Material examined. • Birds Hill PP – 1 ♂ • Brandon – 5 ♀ • Cartier – 1 ♀ • Clanwilliam–Erickson – 4 ♀ – 2 ♂ • Coldwell – 3 ♀ • Division 19 – 7 ♀ – 7 ♂ • Dufferin – 2 ♀ • Emerson–Franklin – 3 ♀ – 1 ♂ • Glenboro–South Cypress – 23 ♀ – 1 ♂ – 1 adult • Grahamdale – 2 ♀ • Grey – 1 ♀ • Melita – 1 ♂ • Morden – 1 ♂ • North Cypress–Langford – 2 ♀ • Reynolds – 4 ♂ • Saint Laurent – 3 ♀ • Springfield – 1 ♀ • St. Andrews – 1 ♂ • St. Francois Xavier – 1 ♀ – 3 ♂ • The Pas – 1 ♀ • Winnipeg – 2 ♀ – 1 ♂ • Whitemouth – 1 ♀ • Victoria Beach – 2 ♀ • Cornwallis – 2 ♀ • Mountain – 1 ♂ • Portage la Prairie (RM) – 1 ♀ – 1 ♂ • Ritchot – 1 ♀ • Rockwood – 2 ♀.

Notes. *Colletes hyalinus* is widespread in North America, but apparently not previously known from Manitoba (Stephen 1954).

***Colletes impunctatus lacustris* Swenk 1906** (*clypearis* group) (new provincial record)

Material examined. • **Brokenhead** • Garson, 50.075, –96.7 – 1 ♂, 1975-06-29, leg. Galloway T.D. (WRME) • **Churchill** • Churchill, 58.77, –94.17 – 1 ♂, 1989-07-13, leg. Galloway T.D. (WRME) • **Riding Mountain National Park** • Clear Lake, 50.66, –99.96 – 1 ♀, 1989-07-02, leg. Bird R.D. (WRME).

Notes. Although apparently not recorded previously from Manitoba, this species is widespread and occurs in surrounding regions (Stephen 1954).

***Colletes nigrifrons* Titus 1900** (*consors* group)

Material examined. • **Gillam** • Gillam, 56.35, –94.7 – 1 ♀, 1950-07-15, leg. McAlpine, J.F. (CNC).

Notes. *Colletes nigrifrons* is an uncommon but widespread species in northern and alpine areas. One additional public record is available from the AMNH (AMNH_BEE00216660), which was collected at Kettle Rapids on 1917-07-16 and determined by J.S. Ascher (National University of Singapore).

***Colletes rufocinctus* Cockerell 1929** (*simulans* group)

Material examined. • Magnus – 1 ♀, 1914-09-02, leg. Wallis J.B. (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 49.9983, –96.8869 – 1 ♀, 2019-07-18, leg. Morgan K., ex. *Amorpha canescens* (WRME) • **Rockwood** • Windsor cemetery, 50.345, –97.275 – 1 ♀, 1935-08-24, leg. Hunter A.J., ex. *Solidago* (WRME) • **Teulon** • Teulon, 50.38, –97.26 – 1 ♀, 1938-08-21, leg. Hunter A.J. (WRME).

Notes. *Colletes rufocinctus* was previously known from a single locality in the province, Magnus (Stephen 1954). The exact location of Magnus is unclear as it does not appear in gazetteers. There is a Magnus Avenue in Winnipeg.

***Colletes validus* Cresson 1868** (*inaequalis* group) (new provincial record)

Material examined. • **Reynolds** • Sandilands Res. – 2 ♀, 1938-05-26, leg. Smith D.N. (CNC) – 1 ♀, 1938-05-28, leg. Smith D.N. (CNC) • Sandilands, 49.325, –96.1 – 1 ♀, 1976-05-19, leg. Adams E.E. (WRME) – 2 ♂, 1976-05-19, leg. Adams E.E. (WRME) – 1 ♀, 1976-05-19, leg. Galloway T.D. (WRME) – 2 ♂, 1976-05-19, leg. Galloway T.D. (WRME) – 1 ♀, 1976-05-22, leg. Madder M.C.A. (WRME) – 1 ♂, 1976-05-22, leg. Madder M.C.A. (WRME) – 1 ♂, 1976-05-23, leg. Galloway C.A. (WRME) – 1 ♂, 1976-05-24, leg.

Galloway C.A. (WRME) • Sandilands, 49.5365, -96.3908 – 1 ♀, 1993-06-10, leg. Henne D.C. (WRME) • Sandilands, 49.635, -95.922 – 9 ♂, 2018-05-21, leg. Gibbs J. (WRME).

Notes. *Colletes validus* is oligolectic on Ericaceae. It is easily recognized by its large size and long malar space (Hall *et al.* 2016).

HYLAEINAE: Hylaeini

***Hylaeus (Hylaeus) aff. rudbeckiae* (Cockerell 1896) (*rudbeckiae* group) (new provincial record)**

Material examined. **Division 1** • Douglas Lake, 52.029325, -95.355924 – 1 ♂ 1925-07-15, leg. Bird R.D. (CNC) • **Glenboro–South Cypress** • Aweme, 49.708978, -99.604553 – 1 ♂ 1916-07-12, leg. Sladen (CNC).

Notes. Manitoba records were first separated from other members of the *rudbeckiae* group using unpublished DNA barcode data from WRME. They are morphologically distinct. Ryan Oram (Royal Saskatchewan Museum) is currently revising this group.

***Hylaeus (Hylaeus) fedorica* (Cockerell 1909) (*rudbeckiae* group) (new provincial record)**

Material examined. • **Dufferin** • U of M farm, 49.495499, -98.033682 – 11 ♀, 2017-07-04, leg. Bannerman J. (WRME) • **Winnipeg** • Central Park, 49.895 –97.148 – 1 ♂, 2022-07-05, leg. van Dyck A. (WRME) • Kildonan Park South, 49.941 –97.108 – 1 ♀, 2022-08-09, leg. van Dyck A. (WRME) • St. Vital Park, 49.829 –97.147 – 1 ♀, 2022-08-02, leg. van Dyck A. (WRME) • Stephen Juba Park, 49.897 –97.132 – 1 ♂, 2022-07-05, leg. van Dyck A. (WRME).

Notes. Eleven females were collected in a Malaise trap at the University of Manitoba Ian N. Morison Research farm and four were netted from parks in Winnipeg, all sites within 1 km of a river. This is an extremely uncommon species, which may be associated with riparian areas. It has been previously been reported from ‘Cana.[da]’ (Metz 1911), but no other Canadian records are known to us.

***Hylaeus (Hylaeus) rudbeckiae* (Cockerell and Casad 1895) (*rudbeckiae* group) (new provincial record)**

Material examined. • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, -99.392 – 1 ♀, 2019-08-09, leg. Hanuschuk E. (WRME) • **Wallace–Woodworth** • Kirkella (1.4 km NW), 50.033, -101.378 – 1 ♀, 2018-06-17, leg. Gibbs J. (WRME).

Notes. *Hylaeus rudbeckiae* is closely allied to *H. mesillae*, but females can be distinguished in part by size (Snelling 1970). The occurrence of *H. rudbeckiae* in Canada was questioned by Oram (2018). The Kirkella specimen above was DNA barcoded and is distinct from *H. digitatus*

***Hylaeus (Hylaeus) saniculae* (Robertson 1896) (*rudbeckiae* group) (new provincial record)**

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.02444, -96.8836 – 1 ♀, 1980-06-10, leg. Galloway T.D. (WRME).

***Hylaeus (Prosopis) cf. gaigei* (Cockerell 1916) (new provincial record)**

Material examined. • **Alexander** • Bird River, 50.43321, -95.56145 – 2 ♀, 2019-07-16, leg. Martini M. (WRME) • **Armstrong** • Inwood, 50.50221, -97.5293 – 1 ♀, 2019-07-22, leg.

Martini M. (WRME) • Inwood (5.0 km N), 50.551, -97.508 – 1 ♀, 2019-07-24, leg. Hanuschuk E. (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 50.033, -96.863 – 1 ♀, 2018-06-21, leg. Hanuschuk E. (WRME) • **Division 1** • Whitemouth Lake, 49.44378, -95.49657 – 1 ♀, 2019-07-19, leg. Martini M. (WRME) • **Division 19** • Nopiming PP, 50.45964, -95.37549 – 1 ♀, 2019-07-15, leg. Martini M. (WRME) • **Springfield** • Nourse (2.7 km NE), 49.905, -96.361 – 1 ♀, 2019-06-20, leg. Hanuschuk E. (WRME) • **St. Clements** • Libau (10 km N), 50.36, -96.7261 – 1 ♀, 1989-07-04, leg. Galloway T.D. (WRME) • **Whitemouth** • Seven Sisters, 50.1, -96 – 1 ♀, 1980-06-03, leg. Galloway T.D. (WRME) – 1 ♀, 1981-06-26, leg. Galloway T.D. (WRME) – 1 ♀, 1984-06-16, leg. Galloway T.D. (WRME) • Seven Sisters Falls (1.9 km WSW), 50.095, -96.042 – 1 ♀, 2018-05-28, leg. Hanuschuk E. (WRME) • **Whiteshell Provincial Park** • Seven Sisters Falls (9.7 km E), 50.11, -95.887 – 1 ♀, 2018-05-28, leg. Hanuschuk E. (WRME) – 4 ♀, 2018-07-05, leg. Hanuschuk E. (WRME) – 1 ♀, 2018-07-23, leg. Hanuschuk E. (WRME) • **Winnipeg** • Winnipeg, 49.854, -97.246 – 1 ♀, 2018-06-15, leg. Hanuschuk E. (WRME).

Notes. The identity and validity of *H. gaigei*—described from Michigan’s Upper Peninsula—remains in doubt. It is likely related to *H. modestus*. Specimens in WRME were identified by R. Oram (U. Regina) as part of an ongoing revision (Oram 2018). It was recently recorded from Labrador (Hicks and Sheffield 2021).

***Hylaes (Prosopis) illinoisensis* (Robertson 1896)**

Material examined. • **Division 1** • Whitemouth Lake, 49.28156, -95.5337 – 1 ♂, 2019-07-24, leg. Martini M. (WRME) • **Hanover** • Kleefeld, 49.532, -96.921 – 3 ♀, 2019-07-24, leg. Shukla-Bergen S. (WRME) • **Portage la Prairie** • Portage la Prairie, 49.9621, -98.2912 – 1 ♂, 2020-07-03, leg. Miller R. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** • Delta Beach, 50.185, -98.32 – 5 ♀, 1994-07-15, leg. Diehl J.K. (WRME) • Delta Marsh, 50.152, -98.34 – 1 ♀, 2018-06-20, leg. Hanuschuk E., ex. *Lotus corniculatus* (WRME) • Delta Marsh, 50.176, -98.313 – 1 ♀, 2018-07-12, leg. Hanuschuk E., ex. *Melilotus albus* (WRME) • Delta Marsh Field Station, 50.184, -98.384 – 1 ♂, 1985-06-29, leg. Gadawski S.E. (WRME) • Delta Marsh WMA, 50.17, -98.374 – 11 ♀, 2018-06-20, leg. Hanuschuk E. (WRME) – 7 ♀, 2018-07-12, leg. Hanuschuk E. (WRME) • Delta Marsh WMA, 50.176, -98.313 – 5 ♀, 2018-06-20, leg. Hanuschuk E. (WRME) – 8 ♀, 2018-07-12, leg. Hanuschuk E. (WRME) • Delta Marsh WMA (7.6 km SW), 50.137, -98.407 – 2 ♀, 2018-06-20, leg. Hanuschuk E. (WRME) • **Rockwood** • Oak Hammock Marsh Interpretive Centre (0.71 km S), 50.168, -97.131 – 7 ♂, 2019-06-18, leg. Hanuschuk E. (WRME) – 2 ♀, 2019-07-12, leg. Hanuschuk E. (WRME) – 3 ♂, 2019-07-12, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-08-07, leg. Hanuschuk E. (WRME) • **St. Clements** • Libau (10 km N), 50.36, -96.7261 – 9 ♀, 1989-07-04, leg. Galloway T.D. (WRME) – 12 ♂, 1989-07-04, leg. Galloway T.D. (WRME).

Notes. Previously recorded in a thesis (Hanuschuk 2021), *H. illinoisensis* appears to be associated with wetland areas in the province.

***Hylaes (Prosopis)* “sp. A”**

Material examined. **Birds Hill PP**: 1 ♂, Birds Hill PP, 50.014, -96.917, 2017-08-12, leg. Gibbs J., *Solidago* (WRME); **Glenboro–South Cypress**: 1 ♂, Spruce Woods PP, 49.663, -99.279, 2017-07-07, leg. Gibbs J. & Nozoe G.Y. (WRME); **RM St. Clements**: 3 ♂, Libau (10 km N), 50.36, -96.7261, 1989-07-04, leg. Galloway T.D. (WRME); **RM Whitemouth**: 1 ♂, Seven Sisters Grassland Project, 50.07689, -96.09504, 1984-06-16, leg.

Galloway T.D. (WRME); **Winnipeg**: 2 ♂, Winnipeg; Crescent Park, 49.837361, -97.14348, 1988-06-04, leg. Galloway T.D. (WRME); 1 ♂, Winnipeg; UofM, 49.807501, -97.136626, 1991-06-03, leg. Henne D.C. (WRME).

Notes. Males of *Hylaeus* “sp. A” are distinguished here from *H. modestus* by the denser punctuation of T1 and separated dorsal crests of the penis valves, which form a depressed space. Resolving the identity of this apparently distinct species will require a dedicated taxonomic study.

HALICTINAE: Halictini

Lasioglossum (Dialictus) absimile (Sandhouse 1924) (*viridatum* group) (new Canadian record)

Material examined. • Brokenhead – 6 ♀ • Emerson–Franklin – 5 ♀ • Glenboro–South Cypress – 16 ♀ – 1 ♂ • Hanover – 5 ♀ • North Cypress–Langford – 1 ♀ • Reynolds – 42 ♀ – 1 ♂ • Whitemouth – 1 ♀ • Winnipeg – 16 ♀ – 5 ♂ • Portage la Prairie (RM) – 38 ♀ • Springfield – 1 ♀ • De Salaberry – 10 ♀ • Rockwood – 10 ♀ • St. Francois Xavier – 17 ♀ • Stanley – 4 ♀ • Ste. Anne – 12 ♀ • Montcalm – 3 ♀.

Notes. *Lasioglossum absimile* is a poorly known species, until recently only documented from the type locality in Colorado (Gardner and Gibbs 2021). DNA barcodes and morphology suggest it is closely allied to *L. ephialtum* Gibbs in the *viridatum* species complex. Species delimitation and specimen identification in this complex remain a challenge (Gibbs 2010, 2018).

Lasioglossum (Dialictus) admirandum (Sandhouse 1924) (*viridatum* group)

Material examined. • Armstrong – 1 ♀ • Birds Hill PP – 4 ♀ • Hanover – 2 ♀ • North Cypress–Langford – 1 ♂ • Portage la Prairie – 1 ♀ • Reynolds – 1 ♀ • St. Clements – 2 ♀ • Whitemouth – 6 ♀ • Winnipeg – 3 ♀ – 1 ♂ • Portage la Prairie (RM) – 4 ♀ – 1 ♂ • De Salaberry – 2 ♀ – 1 ♂ • Ellice–Archie – 3 ♀ • Stuartburn – 323 ♀ – 6 ♂ • Montcalm – 1 ♀.

Notes. *Lasioglossum admirandum* is also a member of the *viridatum* group. It was reported previously by Wrigley *et al.* (2021) based on material examined for this study.

Lasioglossum (Dialictus) albohirtum (Crawford 1907) (*albohirtum* group) (new provincial record)

Record. **Cornwallis** • 49° 49' 51.1" N, -99° 44' 07.9" W – 1 ♀, 2016-06-22, Dubois M. (AAFC).

Notes. *Lasioglossum albohirtum* has been recorded from British Columbia to Saskatchewan (Gibbs 2010). The identity of the Manitoba specimen was confirmed using DNA barcodes, but the specimen was not examined.

Lasioglossum (Dialictus) dreisbachi (Mitchell 1960) (*viridatum* group) (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.0141, -96.9147 – 1 ♀, 2017-09-30, leg. Gardner J., ex. *Solidago* sp. (WRME) • Birds Hill PP, 50.0146, -96.9142 – 1 ♀, 2019-05-30, leg. Morgan K. (WRME) • Birds Hill PP, 50.033, -96.862 – 2 ♀, 2020-07-02, leg. Gibbs J. (WRME) • **Boissevain–Morton** • Turtle Mountain PP, 49, -100 – 1 ♀, 1950-07-08, leg. Bird C. (WRME) • **Hanover** • Trentham, 49.399, -96.661 – 1 ♀, 2019-06-10, leg. Shukla-Bergen S., ex. *Zizia aurea* (WRME) • **La Broquerie** • Trentham, 49.399, -96.611 – 1 ♀, 2019-06-10, leg. Shukla-Bergen S., ex. *Zizia aurea* (WRME) • **Reynolds** • Beausejour (20 km SE), 49.93, -96.33 – 1 ♀, 1996-08-12, leg. McKay T. (WRME) • Sandilands Brokenhead River,

49.647, -96.26 – 1 ♂, 2017-08-27, leg. Gibbs J. (WRME) • **Rockwood** • Oak Hammock Marsh Interpretive Centre (4.7 km SW), 50.142, -97.184 – 1 ♀, 2019-05-28, leg. Hanuschuk E. (WRME) • **Stuartburn** • Lonesand, 49.193, -96.366 – 1 ♀, 2019-06-04, leg. Shukla-Bergen S. (WRME) • **Rosa**, 49.237, -96.744 – 1 ♀, 2019-07-03, leg. Shukla-Bergen S. (WRME) • **Whiteshell Provincial Park** • Seven Sisters Falls (9.7 km E), 50.11, -95.887 – 1 ♀, 2018-05-28, leg. Hanuschuk E. (WRME) • **Winnipeg** • Winnipeg, 49.88, -97.17 – 1 ♀, 1987-05-06, leg. Currey D.M. (WRME).

***Lasioglossum (Dialictus) ellisiae* (Sandhouse 1924) (gemmatum group) (new provincial record)**

Material examined • **Emerson–Franklin** • Carlowrie (3.5 KM SE), 49.238, -96.917 – 2 ♀, 2019-07-29, leg. Hanuschuk E. (WRME) • **Senkiw**, 49.207, -96.872 – 1 ♀, 2019-07-29, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** • Portage La Prairie (4.6 km SW), 49.93, -98.33 – 1 ♀, 2018-06-27, leg. Hanuschuk E. (WRME) – 1 ♀, 2018-07-16, leg. Hanuschuk E. (WRME) – 1 ♀, 2018-08-21, leg. Hanuschuk E. (WRME) • **Portage La Prairie** (8 km SW), 49.901, -98.343 – 1 ♀, 2018-06-04, leg. Hanuschuk E. (WRME) • **Portage la Prairie** (8.7 km S), 49.887, -98.297 – 1 ♀, 2018-07-16, leg. Hanuschuk E. (WRME) • **Reynolds** • **Hadashville**, 49.676, -95.899 – 2 ♀, 2019-05-28, leg. Shukla-Bergen S. (WRME) • **Hadashville**, 49.676, -95.898 – 1 ♀, 2018-05-21, leg. Hanuschuk E. (WRME) – 6 ♀, 2018-06-13, leg. Hanuschuk E. (WRME) – 10 ♀, 2018-07-09, leg. Hanuschuk E. (WRME) – 3 ♀, 2018-07-24, leg. Hanuschuk E. (WRME) – 6 ♀, 2018-08-13, leg. Hanuschuk E. (WRME) • **Hadashville**, 49.6761, -95.8984 – 1 ♀, 2019-05-28, leg. Morgan K. (WRME) – 4 ♀, 2019-05-28, leg. Morgan K. & Shukla-Bergen S. (WRME) • **Sandilands**, 49.676, -95.898 – 1 ♀, 2018-06-13, leg. Hanuschuk E., ex. *Ziziae aurea* (WRME) – 1 ♀, 2018-06-13, leg. Hanuschuk E., ex. *Crepis tectorum* (WRME) • **Ste. Anne** • Giroux, 49.559, -96.599 – 1 ♀, 2019-06-13, leg. Shukla-Bergen S. (WRME) • **Giroux**, 49.599, -96.599 – 1 ♀, 2019-07-18, leg. Shukla-Bergen S. (WRME).

***Lasioglossum (Dialictus) ephialtum* Gibbs 2010 (viridatum group) (new provincial record)**

Material examined. • **Armstrong** • Clematis WMA, 50.61, -97.508 – 1 ♀, 2019-06-06, leg. Hanuschuk E., ex. *Fragaria virginiana* (WRME) • **Inwood** (1 km E), 50.5056, -97.48 – 1 ♀, 2019-06-06, leg. Gibbs J., ex. *Salix* (WRME) • **Inwood** (5.0 km N), 50.551, -97.508 – 4 ♀, 2019-06-27, leg. Hanuschuk E. (WRME) • **Inwood** (7.1 km NNW), 50.566, -97.546 – 2 ♀, 2019-05-14, leg. Hanuschuk E. (WRME) – 2 ♀, 2019-06-27, leg. Hanuschuk E. (WRME) • **Birds Hill Provincial Park** • Roscoe Road (Northern limit of Birds Hill PP), 50.062, -96.883 – 1 ♀, 2018-05-25, leg. Hanuschuk E. (WRME) • **Brokenhead** • **Libau** (13.5 km E), 50.251, -96.512 – 1 ♀, 2019-08-30, leg. Hanuschuk E. (WRME) • **Libau** (4.6 km SE), 50.239, -96.668 – 1 ♀, 2019-07-23, leg. Hanuschuk E. (WRME) • **Coldwell** • **Oak Point** (6 km NNE), 50.552, -97.977 – 1 ♀, 2020-06-23, leg. Martini M., ex. *Campanula rotundifolia* (WRME) • **Emerson–Franklin** • **Roseau River**, 49.176, -96.827 – 1 ♀, 2020-07-22, leg. Gibbs J., ex. *Dalea purpurea* (WRME) – 1 ♀, 2020-07-22, leg. Gibbs J. (WRME) • **Glenboro–South Cypress** • **Glenboro** (7.5 km W), 49.563, -99.394 – 1 ♀, 2019-08-28, leg. Hanuschuk E. (WRME) • **Spruce Woods PP**, 49.6603, -99.269 – 2 ♀, 2019-06-09, leg. Gibbs J. (WRME) • **Grahamdale** • **Hilbre** (3 km SW), 51.479, -98.616 – 1 ♀, 2020-07-14, leg. Martini M., ex. *Dasiphora fruticosa* (WRME) • **Saint Martin** (7.5 km SSW), 51.652, -98.715 – 1 ♀, 2020-07-16, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) • **North Cypress–Langford** • **Spruce Woods PP** (4.2 km N), 49.842, -99.251 – 1 ♂, 2018-08-29, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** •

Portage La Prairie (4.5 km SE), 49.93, -98.262 – 1 ♀, 2018-08-21, leg. Hanuschuk E. (WRME) • Portage Sand Hills WMA (6.5 km E), 49.798, -98.165 – 1 ♀, 2019-05-21, leg. Hanuschuk E., ex. *Taraxacum officinale* (WRME) • **Reynolds** • Hadashville, 49.6761, -95.8984 – 1 ♀, 2019-05-28, leg. Morgan K. (WRME) • Hadashville (3.7 km N), 49.712, -95.899 – 1 ♀, 2018-06-13, leg. Hanuschuk E. (WRME) – 2 ♀, 2018-07-09, leg. Hanuschuk E. (WRME) • **Rockwood** • Norris Lake PP, 50.483, -97.419 – 1 ♀, 2019-06-06, leg. Gibbs J., ex. *Cornus* (WRME) • Oak Hammock Marsh Interpretive Centre (0.71 km S), 50.168, -97.131 – 1 ♀, 2019-05-28, leg. Hanuschuk E. (WRME) • Oak Hammock Marsh Interpretive Centre (4.7 km SW), 50.142, -97.184 – 1 ♀, 2019-07-12, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-08-19, leg. Hanuschuk E. (WRME) • Oak Hammock Marsh WMA, 50.182, -97.161 – 1 ♀, 2019-05-28, leg. Hanuschuk E. (WRME) • Oak Hammock Marsh WMA, 50.204, -97.161 – 2 ♀, 2019-05-28, leg. Hanuschuk E., ex. *Taraxacum officinale* (WRME) – 1 ♀, 2019-06-18, leg. Hanuschuk E., ex. *Potentilla anserina* (WRME) • **Springfield** • Nourse (1.6 km N), 49.899, -96.394 – 1 ♂, 2019-08-20, leg. Hanuschuk E. (WRME) • **Winnipeg** • Winnipeg, 49.814, -97.254 – 1 ♀, 2018-08-14, leg. Hanuschuk E. (WRME) • Winnipeg, 49.825, -97.225 – 1 ♀, 2018-05-22, leg. Hanuschuk E. (WRME) • Winnipeg, 49.854, -97.246 – 1 ♀, 2018-08-14, leg. Hanuschuk E. (WRME).

Notes. See *L. absimile* above. Also recorded in a thesis by Martini (2022).

***Lasioglossum (Dialictus) immigrans* Gardner and Gibbs 2021**

Material examined. • **West Interlake** • Ashern (4.5 km NNW), – 1 ♀ paratype, 2020-06-29, leg. Martini M. (WRME).

Notes. This record is quite surprising given the distribution of the species primarily in Mexico and southwestern USA.

***Lasioglossum (Dialictus) laevissimum* (Smith 1853)**

Notes. *Lasioglossum laevissimum* is a common species but is noteworthy for Manitoba because the type locality is south of Lake Winnipeg.

***Lasioglossum (Dialictus) leucomus* (Lovell 1908) (new provincial record)**

Material examined. • Alexander – 1 ♂ • Armstrong – 35 ♀ – 11 ♂ • Birds Hill PP – 163 ♀ – 10 ♂ – 3 adults • Brandon – 4 ♀ • Brokenhead – 57 ♀ – 3 ♂ • Carberry – 1 ♀ • Division 19 – 4 ♀ – 3 ♂ • Emerson–Franklin – 5 ♀ • Glenboro–South Cypress – 297 ♀ – 18 ♂ • Grahamdale – 2 ♀ • Hanover – 5 ♀ • North Cypress–Langford – 66 ♀ • Piney – 3 ♀ – 1 ♂ • Reynolds – 53 ♀ – 5 ♂ • Saint Laurent – 1 ♀ • St. Clements – 2 ♀ • Whiteshell PP – 8 ♀ – 4 ♂ • Winnipeg – 3 ♀ • Cornwallis – 113 ♀ • Portage la Prairie (RM) – 199 ♀ – 11 ♂ • Springfield – 52 ♀ • Two Borders – 10 ♀ • Sifton – 2 ♀ • Ellice–Archie – 54 ♀ – 1 ♂ • La Broquerie – 7 ♀ • Ste. Anne – 14 ♀ • Stuartburn – 24 ♀ • Stuartburn – 1 ♀.

Notes. *Lasioglossum leucomus* is very similar to *L. succinipenne* (Ellis) and *L. pilosum* (Smith). The occurrence of *L. leucomus* and *L. pilosum* in Manitoba makes identification more challenging for these three species. A larger number of specimens reported as *L. succinipenne* in Patenaude's (2007) thesis require re-examination. DNA barcodes distinguish *L. pilosum* but do not appear useful for separating *L. leucomus* from *L. succinipenne* (Gibbs 2018). *Lasioglossum leucomus* was reported by Wrigley *et al.* (2021) based on material examined for this study.

Lasioglossum (Dialictus) michiganense (Mitchell 1960) (*platyparium* group) (new provincial record)

Material examined. • **Springfield** • Nourse (2.7 km NE), 49.905, -96.361 – 1 ♀, 2019-05-29, leg. Hanuschuk E. (WRME) • **Stuartburn** • Tall Grass Prairie Preserve, 49.17177, -96.67296 – 1 ♀, 2018-06-04, leg. Miller R. (WRME).

Notes. *Lasioglossum michiganense* is a brood parasite believed to attack other members of *L. (Dialictus)*. Along with *L. sitocleptum* Gibbs below, these are the first records of brood parasitic *L. (Dialictus)* from Manitoba. *Lasioglossum michiganense* was recorded earlier in theses (Hanuschuk 2021; Miller 2021).

Lasioglossum (Dialictus) oblongum (Lovell 1905) (*viridatum* group) (new provincial record)

Material examined. • **Armstrong** • Inwood (5.0 km N), 50.551, -97.508 – 1 ♀, 2019-05-06, leg. Hanuschuk E. (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 50.01558, -96.90552 – 1 ♀, 2018-07-26, leg. Shaw A. (WRME) • **Brokenhead** • Libau (4.6 km SE), 50.239, -96.668 – 1 ♀, 2019-06-05, leg. Hanuschuk E. (WRME) • **Franklin** • Senkiw, 49.2064, -96.8717 – 6 ♀, 2020-05-16, leg. Miller R. (WRME) • **Grahamdale** • Fairford (6 km SSW), 51.565, -98.694 – 1 ♀, 2020-07-16, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) • **Saint Martin** (7.5 km SSW), 51.652, -98.715 – 1 ♀, 2020-07-16, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) – 2 ♀, 2020-07-16, leg. Shukla-Bergen S., ex. *Solidago nemoralis* (WRME) • **Hanover** • Grunthal, 49.37, -98.85 – 1 ♀, 2019-05-23, leg. Shukla-Bergen S., ex. *Taraxacum officinale* (WRME) • **Kleefeld**, 49.458, -96.827 – 1 ♀, 2019-05-20, leg. Shukla-Bergen S. (WRME) • **Kleefeld**, 49.473, -96.907 – 1 ♀, 2019-05-27, leg. Shukla-Bergen S., ex. *Taraxacum officinale* (WRME) • **Kleefeld**, 49.502, -96.827 – 1 ♀, 2019-05-20, leg. Shukla-Bergen S. (WRME) • **Pinawa** • Pinawa, 50.162, -95.931 – 1 ♀, 2019-06-28, leg. Shukla-Bergen S. (WRME) • **Portage la Prairie (RM)** • Portage la Prairie (8.7 km S), 49.887, -98.297 – 1 ♀, 2018-06-04, leg. Hanuschuk E. (WRME) • **Portage Sand Hills WMA** (6.5 km E), 49.798, -98.165 – 1 ♀, 2019-05-21, leg. Hanuschuk E., ex. *Taraxacum officinale* (WRME) • **Reynolds** • Sandilands, 49.635, -95.922 – 2 ♂, 2018-08-13, leg. Hanuschuk E., ex. *Solidago canadensis* (WRME) • **Sandilands**, 49.635, -95.915 – 1 ♀, 2019-05-28, leg. Shukla-Bergen S. (WRME) • **Sandilands PF**, 49.635, -95.922 – 1 ♀, 2018-07-09, leg. Hanuschuk E. (WRME) • **Springfield** • Nourse (1.6 km N), 49.899, -96.394 – 1 ♀, 2019-07-16, leg. Hanuschuk E. (WRME) • **Whiteshell Provincial Park** • Seven Sisters Falls (9.7 km E), 50.11, -95.887 – 1 ♀, 2018-07-05, leg. Hanuschuk E. (WRME).

Notes. *Lasioglossum oblongum* is a wood-nesting species (Gibbs 2010). Also recorded in recent theses (Hanuschuk 2021; Martini 2022).

Lasioglossum (Dialictus) pilosum (Smith 1853)

Material examined. • **Armstrong** – 40 ♂ • **Birds Hill PP** – 202 ♀ – 75 ♂ • **Brandon** – 1 ♀ • **Brokenhead** – 141 ♀ – 36 ♂ • **Glenboro–South Cypress** – 111 ♀ – 56 ♂ – 23 adults • **Glenboro–South Cypress** – 5 ♀ • **Grey** – 1 ♀ • **Hanover** – 1 ♀ • **North Cypress–Langford** – 43 ♀ – 11 ♂ • **Piney** – 1 ♀ • **Reynolds** – 39 ♀ – 4 ♂ • **Whiteshell PP** – 1 ♂ • **Winnipeg** – 1 ♀ – 1 ♂ • **Cornwallis** – 22 ♀ – 14 ♂ • **Portage la Prairie (RM)** – 592 ♀ – 85 ♂ • **Springfield** – 17 ♀ – 9 ♂ • **Two Borders** – 57 ♀ • **Ellice–Archie** – 7 ♀ – 1 ♂ • **La Broquerie** – 3 ♀ • **Ste. Anne** – 25 ♀ • **Stuartburn** – 2 ♀ • **Glenboro–South Cypress** – 1 ♂ • **Portage la Prairie (RM)** – 1 ♂.

Notes. *Lasioglossum pilosum* was previously recorded in a thesis by Olynyk (2017) and by Wrigley *et al.* (2021).

***Lasioglossum (Dialictus) planatum (Lovell 1905)* (*viridatum* group) (new provincial record)**

Material examined. • Armstrong – 4 ♀ – 1 adult • Birds Hill PP – 3 ♀ – 1 ♂ • Brokenhead – 4 ♀ • Division 1 – 1 ♀ • Division 19 – 37 ♀ – 1 ♂ • Emerson–Franklin – 8 ♀ • Glenboro–South Cypress – 2 ♀ • Reynolds – 7 ♀ • Swan Valley West – 1 ♀ • Whitemouth – 5 ♀ – 2 ♂ • Whiteshell PP – 4 ♀ • Winnipeg – 9 ♀ – 2 ♂ • Portage la Prairie (RM) – 2 ♀ • Springfield – 7 ♀ • Franklin – 2 ♀ • Rockwood – 2 ♀ • Stuartburn – 96 ♀ • Kelsey – 1 ♀.

***Lasioglossum (Dialictus) prasinogaster Gibbs 2010* (*veganum* group) (new provincial record)**

Material examined. • **Two Borders** • Bernice WMA, 49.382, –100.95 – 1 ♀, 2022-06-07, leg. Miller R. & Freeth E. (WRME).

***Lasioglossum (Dialictus) sitocleptum Gibbs 2010* (*platyparium* group) (new provincial record)**

Material examined. • **Ste. Anne** • Giroux, 49.559453, –96.59951 – 1 ♀, 2019-05-13, leg. Shukla-Bergen S. (WRME).

Notes. *Lasioglossum sitocleptum* is a brood parasite that presumably attacks other *L. (Dialictus)*. *Lasioglossum sitocleptum* is the only brood parasitic *L. (Dialictus)* found primarily west of the Mississippi River (Gibbs 2010), previously recorded from Alberta, Saskatchewan, and Colorado. It is not morphologically separable from *L. furunculum* Gibbs 2011, described from Massachusetts and subsequently documented in southern Ontario (Onuferko *et al.* 2015) but are separated by >2000 km (Gardner and Gibbs 2021). Although these two populations remain quite widely separated, this specimen decreases the distance by a third.

***Lasioglossum (Dialictus) subversans (Mitchell 1960)* (new provincial record)**

Material examined. • **Division 19** • Grand Rapids (78 km SSE), 52.516, –98.892 – 1 ♂, 2020-07-31, leg. Martini M., ex. *Melilotus albus* (WRME) • **Ellice–Archie** • St Lazare, 50.403289, –101.31083 – 1 ♀, 2014-06-09, leg. Olynyk M. (WRME) • **La Broquerie** • La Broquerie, 49.5147, –96.412 – 2 ♀, 2019-07-02, leg. Shukla-Bergen S. (WRME) • **Piney** • Spur Woods WMA, 49.0881, –96.0868 – 1 ♀, 2019-06-14, leg. Nakagawa P. (WRME) • **Reynolds** • Hadashville, 49.676, –95.898 – 1 ♀, 2018-06-13, leg. Hanuschuk E. (WRME) • **Sandilands PF**, 49.635, –95.922 – 1 ♀, 2018-06-13, leg. Hanuschuk E. (WRME) • **Springfield** • Anola, 49.9142, –96.4327 – 1 ♂, 2020-07-12, leg. Miller R. Sereacki L. (WRME) • **Stuartburn** • Lonesand, 49.221, –96.309 – 1 ♀, 2019-06-04, leg. Shukla-Bergen S. (WRME) • **Whitemouth** • Whitemouth Falls PP, 50.114, –96.026 – 1 ♀, 2018-07-05, leg. Hanuschuk E. (WRME) • **Winnipeg** • Winnipeg, 49.825, –97.225 – 1 ♀, 2018-05-22, leg. Hanuschuk E. (WRME).

Notes. The St. Lazare specimen above was recorded by Wrigley *et al.* (2021).

***Lasioglossum (Dialictus) subviridatum (Cockerell 1938)* (*viridatum* group) (new provincial record)**

Material examined. • Birds Hill PP – 9 ♀ – 1 ♂ • Brokenhead – 4 ♀ • Division 19 – 3 ♀ – 4 ♂ • Emerson–Franklin – 1 ♀ • Glenboro–South Cypress – 3 ♀ • Grahamdale – 1 ♀ • Hanover – 3 ♀ • Pembina – 1 ♀ • Piney – 3 ♀ • Portage la Prairie – 7 ♀ • Reynolds – 8 ♀ • Whiteshell PP – 2 ♀ • Springfield – 1 ♀ • Stuartburn – 37 ♀ • Nopaming PP – 2 ♀.

Notes. *Lasioglossum subviridatum* is a wood-nesting species (Gibbs 2010). Species delimitation is problematic in this taxon, so it may represent more than one species (Gibbs 2018).

The type locality is in Saskatchewan, which makes the occurrence of the ‘true’ *L. subviridatum* in Manitoba plausible.

***Lasioglossum (Dialictus) tenax* (Sandhouse 1924)** (new provincial record)

Material examined. • **Whitemouth** • Seven Sisters Falls (2 km WSW), 50.1, –96.04 – 1 ♀, 1983-07-20, leg. Ralley W. (WRME).

Notes. *Lasioglossum tenax* is a solitary species (Packer 1994) found primarily in high latitudes and altitudes.

***Lasioglossum (Hemihalictus) nelumbonis* (Robertson 1890)** (new provincial record)

Material examined. • **Emerson–Franklin** • Carlowrie (3.5 KM SE), 49.238, –96.917 – 1 ♀, 2019-06-10, leg. Hanuschuk E. (WRME).

Notes. Ostensibly *L. nelumbonis* is a specialist on Nymphaceae, but it may just be associated with wetland habitats. It was first recorded in a thesis (Hanuschuk 2021).

***Lasioglossum (Lasioglossum) acuminatum* McGinley 1986** (*forbesii* group) (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.012, –96.93 – 1 ♀, 2018-05-12, leg. Gibbs J., ex. *Arctostaphylos* (WRME) • **Brokenhead** • Mars Hill WMA, 50.266, –96.568 – 1 ♀, 2019-08-13, leg. Hanuschuk E. (WRME) – 6 ♀, 2019-08-30, leg. Hanuschuk E. (WRME) – 2 ♂, 2019-08-30, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Spruce Woods PP, 49.73, –99.294 – 1 ♀, 2018-08-29, leg. Hanuschuk E. (WRME) • Spruce Woods PP, 49.842, –99.251 – 1 ♂, 2018-08-29, leg. Hanuschuk E., ex. *Cirsium arvense* (WRME) • **Piney** • Badger, 49.118, –95.979 – 1 ♀, 2019-06-11, leg. Shukla-Bergen S. (WRME) • **Reynolds** • Sandilands, 49.6, –96.1 – 1 ♀, 1975-05-09, leg. Galloway T.D. (WRME) – 1 ♀, 1976-05-19, leg. Adams E.E. (WRME) – 2 ♀, 1976-07-03, leg. Galloway T.D. (WRME) • Sandilands, 49.635, –95.922 – 1 ♀, 2018-05-21, leg. Gibbs J. (WRME) • **Springfield** • Nourse (4.7 km NW), 49.914, –96.433 – 1 ♀, 2019-06-20, leg. Hanuschuk E. (WRME) • **Victoria Beach** • Victoria Beach, 50.7, –96.55 – 3 ♀, 1979-07-13, leg. Galloway T.D. (WRME).

Notes. *Lasioglossum acuminatum* was first recorded in a thesis (Hanuschuk 2021).

***Lasioglossum (Sphecodogastra) comagenense* (Knerer & Atwood 1964)** (*fulvicorne/fratellum* group) (new provincial record)

Material examined. • **Brandon** • Brandon, 49.83, –99.95 – 1 ♀, 1954-05-18, leg. Cole T.V., ex. *Salix* (WRME) • **Clanwilliam–Erickson** • Erickson, 50.49, –99.91 – 1 ♀, 1983-07-16, leg. Ralley W.E. (WRME) • **Division 19** • Grand Rapids (78 km SSE), 52.516, –98.892 – 1 ♂, 2020-07-21, leg. Martini M., ex. *Melilotus albus* (WRME) – 1 ♂, 2020-07-21, leg. Shukla-Bergen S., ex. *Apocynum androsaemifolium* (WRME) • **Teulon** • Teulon, 50.38, –97.26 – 1 ♀, 1926-06-04, leg. Hunter A.J. (WRME) • **Whitemouth** • Seven Sisters, 50.1, –96 – 1 ♀, 1983-06-06, leg. Ralley W.E. (WRME) • **Whiteshell Provincial Park** • Betula Lake – 1 ♀, 1967-07-31, leg. Webb D.W., ex. *Epilobium angustifolium* (INHS) • **unknown** • NW6-27-28W – 1 ♀, 1990-07-06, leg. Ag. Canada (WRME).

Notes. Although females of *L. comagenense* can be hard to distinguish from related species, the male genitalia are distinctive (Gibbs *et al.* 2013). Also recorded in a thesis by Martini (2022).

***Lasioglossum (Sphecodogastra) lusorium* (Cresson 1872)** (*lusorium* group) (new provincial record)

Material. **RM Cornwallis** • 49° 47' 50.4" N, -99° 44' 07.9" W – 1 ♀, 2016-06-29, Dubois M. (AAFC); **Elton** • 49° 42' 34.2" N, -100° 09' 26.8" W – 1 ♀, 2016-06-20, Dubois M. (AAFC).

Notes. A related species, *L. aberrans* (Crawford), is also known from Manitoba (McGinley 2003). A specimen above was confirmed using DNA barcodes, but they were not examined directly.

***Lasioglossum (Sphecodogastra) quebecense* (Crawford 1907)** (*fulvicorne/fratellum* group) (new provincial record)

Material examined. • **Armstrong** • Inwood (5.0 km N), 50.551, -97.508 – 1 ♀, 2019-05-14, leg. Hanuschuk E. (WRME) • **Narcisse**, 50.684, -97.528 – 1 adult, 2019-06-06, leg. Gibbs J., ex. *Malus* (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 50, -96.8 – 1 ♀, 1985-07-17, leg. Galloway T.D. (WRME) • Birds Hill PP, 50.014, -96.917 – 1 ♀, 2017-09-02, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♀, 2018-05-12, leg. Gibbs J., ex. *Arctostaphylos* (WRME) • Birds Hill PP, 50.02444, -96.88361 – 1 ♀, 1985-07-17, leg. Galloway T.D. (WRME) • Birds Hill PP, 50.0315, -96.8615 – 1 ♂, 2017-08-12, leg. Gibbs J. (WRME) • Birds Hill PP, 50.033, -96.863 – 1 ♂, 2018-08-02, leg. Hanuschuk E. (WRME) • **Bissett–Northern Affairs Act** • Bissett, 51.03944, -95.72081 – 1 ♀, 2019-08-16, leg. Martini M. (WRME) • **Brokenhead** • Mars Hill WMA, 50.237, -96.613 – 1 ♂, 2019-08-13, leg. Hanuschuk E. (WRME) • Mars Hill WMA, 50.266, -96.568 – 1 ♀, 2019-08-30, leg. Hanuschuk E. (WRME) • **Dallas/Red Rose–Northern Affairs Act** • Red Rose, 51.47665, -97.48281 – 1 ♂, 2019-08-15, leg. Martini M. (WRME) • Red Rose, 51.49124, -97.46212 – 1 ♂, 2019-08-15, leg. Martini M. (WRME) • **Division 1** • Whitemouth Lake, 49.504523, -95.554003 – 1 ♂, 2019-07-19, leg. Martini M. (WRME) • **Division 19** • Gypsumville (67.5 km NNW), 52.354, -98.888 – 1 ♂, 2020-07-30, leg. Martini M., ex. *Melilotus albus* (WRME) • **Kelsey** • Wanless, 54.1, -101.3 – 1 ♀, 1954-08-06, leg. Cole T.V., ex. *Trifolium repens* (WRME) – 1 ♀, 1954-08-18, leg. Cole T.V., ex. *Medicago sativa* (WRME) • **Piney** • Spur Woods WMA, 49.0881, -96.0868 – 1 ♀, 2019-06-14, leg. Nakagawa P. (WRME) • **Reynolds** • Hadashville, 49.53932, -96.09509 – 1 ♂, 2019-08-12, leg. Martini M. (WRME) • Hadashville, 49.56781, -96.06765 – 1 ♂, 2019-08-12, leg. Martini M. (WRME) • Marchand, 49.46925, -96.14896 – 1 ♂, 2019-08-12, leg. Martini M. (WRME) • Sandilands, 49.635, -95.922 – 1 ♂, 2018-07-24, leg. Hanuschuk E., ex. *Melilotus albus* (WRME) • Sandilands PF, 49.635, -95.922 – 1 ♀, 2018-07-24, leg. Hanuschuk E. (WRME) • **Springfield** • Nourse (2.7 km NE), 49.905, -96.361 – 1 ♀, 2019-08-08, leg. Hanuschuk E. (WRME) • **Whitemouth** • Seven Sis. Grassland, 50.07689, -96.09504 – 1 ♀, 1984-06-17, leg. Galloway T.D. (WRME) • **Whiteshell Provincial Park** • Seven Sisters Falls (9.7 km E), 50.11, -95.887 – 1 ♀, 2018-08-08, leg. Hanuschuk E. (WRME) • Star Lake, 49.751, -95.255 – 1 ♀, 2018-08-23, leg. Bannerman J. (WRME).

***Lasioglossum (Sphecodogastra) seillean* Gibbs & Packer in Gibbs et al. 2013** (*fulvicorne/fratellum* group) (new provincial record)

Material examined • **Division 19** • Grand Rapids (70 km SSE), 52.591, -98.892 – 1 ♀, 2020-08-15, leg. Shukla-Bergen S., ex. *Hieracium umbellatum* (WRME) – 1 ♀, 2020-08-27, leg. Martini M., ex. *Symphyotrichum laeve* (WRME) • Gypsumville (67.5 km NNW), 52.354, -98.888 – 1 ♂, 2020-07-30, leg. Martini M., ex. *Melilotus albus* (WRME) • Gypsumville

(79 km NNW), 52.456, -98.889 – 1 ♂, 2020-07-30, leg. Martini M., ex. *Solidago rigida* (WRME) • **Whiteshell Provincial Park** • Whiteshell PP, 49.7525, -95.257 – 1 ♀, 2017-08-24, leg. Bannerman J. (WRME).

Notes. Females of *Lasioglossum seillean* are very similar to those of *L. quebecense*, but the males are readily distinguished by their genitalia (Gibbs *et al.* 2013).

***Lasioglossum (Sphecodogastra) truncatum* (Robertson 1901)** (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 49.9983, -96.8869 – 4 ♀, 2019-07-12, leg. Morgan K. (WRME) • Birds Hill PP, 50.00673, -96.90981 – 1 ♀, 2018-07-26, leg. Shaw A. (WRME) • Birds Hill PP, 50.01558, -96.90552 – 1 ♀, 2018-08-16, leg. Shaw A. (WRME) • Birds Hill PP, 50.033, -96.863 – 1 ♀, 2018-07-13, leg. Hanuschuk E. (WRME) • **Brokenhead** • Mars Hill WMA, 50.237, -96.613 – 1 ♀, 2019-07-23, leg. Hanuschuk E. (WRME) • **De Salaberry** • St. Malo, 49.716, -96.936 – 1 ♂, 2019-08-28, leg. Shukla-Bergen S., ex. *Solidago canadensis* (WRME) • **Emerson–Franklin** • Woodmore, 49.108, -96.889 – 1 ♀, 2019-08-22, leg. Shukla-Bergen S., ex. *Solidago rigida* (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.593, -99.346 – 1 ♀, 2019-08-28, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-08-28, leg. Tanner J., ex. *Solidago rigida* (WRME) • **Spruce Woods PP**, 49.654, -99.251 – 1 ♂, 2017-09-10, leg. Gardner J., ex. *Symphytichum* (WRME) • **Spruce Woods PP**, 50.04, -100.195 – 1 ♀, 2019-05-12, leg. Miller R. (WRME) • **Hanover** • Friedensfeld, 49.487, -96.714 – 1 ♀, 2019-07-23, leg. Shukla-Bergen S. (WRME) • **Mitchell**, 49.545, -96.782 – 1 ♀, 2019-06-18, leg. Shukla-Bergen S. (WRME) • **Portage la Prairie (RM)** • Portage La Prairie (4.5 km SE), 49.93, -98.262 – 1 ♀, 2018-08-03, leg. Hanuschuk E. (WRME) • **Portage la Prairie** (8.7 km S), 49.887, -98.297 – 1 ♀, 2018-07-16, leg. Hanuschuk E. (WRME) • **Portage Sand Hills WMA** (4.3 km E), 49.798, -98.255 – 1 ♀, 2019-07-31, leg. Hanuschuk E. (WRME) • **Reynolds** • Hadashville, 49.676, -95.899 – 1 ♀, 2019-05-28, leg. Shukla-Bergen S. (WRME) • **Hadashville**, 49.676, -95.898 – 1 ♀, 2018-05-21, leg. Hanuschuk E. (WRME) • **Hadashville**, 49.6761, -95.8984 – 1 ♀, 2019-05-28, leg. Morgan K. (WRME) – 4 ♀, 2019-05-28, leg. Morgan K. & Shukla-Bergen S. (WRME) • **Sandilands**, 49.676, -95.898 – 1 ♀, 2018-05-21, leg. Hanuschuk E., ex. *Prunus* (WRME) – 2 ♀, 2018-05-21, leg. Hanuschuk E., ex. *Amelanchier* (WRME) • **Sandilands PF**, 49.694, -95.93 – 1 ♀, 2018-07-24, leg. Hanuschuk E. (WRME) • **Salaberry** • Barkfield, 49.34809, -96.84921 – 1 ♀, 2019-07-15, leg. Martini M. (WRME) • **Springfield** • Nourse (1.6 km N), 49.899, -96.394 – 1 ♀, 2019-05-29, leg. Hanuschuk E. (WRME) – 8 ♀, 2019-07-16, leg. Hanuschuk E. (WRME) • **Nourse** (2.7 km NE), 49.905, -96.361 – 2 ♀, 2019-07-16, leg. Hanuschuk E. (WRME) • **Ste. Anne** • Giroux, 49.559, -96.599 – 1 ♀, 2019-06-13, leg. Shukla-Bergen S. (WRME) • **Ste. Anne**, 49.63, -96.656 – 2 ♀, 2019-06-12, leg. Shukla-Bergen S. (WRME) • **Stuartburn** • Gardenton (3.5 km SW), 49.074, -96.739 – 3 ♀, 2020-07-22, leg. Gibbs J., ex. *Dalea purpurea* (WRME) • **Tall Grass Prairie Preserve**, 49.14799, -96.74098 – 1 ♀, 2018-07-16, leg. Miller R. (WRME) • **Two Borders** • Lauder (12.5 km E), 49.4044, -100.8509 – 1 ♀, 2019-05-10, leg. Brooker D. (WRME) • **Whitemouth** • Seven Sisters Falls (1.9 km WSW), 50.095, -96.042 – 1 ♀, 2018-08-08, leg. Hanuschuk E. (WRME).

***Sphecodes atlantis* Mitchell 1956** (*mandibularis* group) (new provincial record)

Material examined. • **Alexander** • Stead, 50.40041, -96.443 – 1 ♂, 2019-08-08, leg. Shukla-Bergen S., ex. *Solidago nemoralis* (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 50.011, -96.93 – 4 ♂, 2018-07-13, leg. Hanuschuk E., ex. *Asclepias ovalifolia* (WRME) –

2 ♂, 2018-08-02, leg. Hanuschuk E. (WRME) – 1 ♂, 2018-08-18, leg. Hanuschuk E., ex. *Solidago canadensis* (WRME) • Birds Hill PP, 50.014, –96.917 – 1 ♂, 2017-09-02, leg. Gibbs J. & Nozoe G.Y. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, –99.392 – 1 ♂, 2019-07-19, leg. Hanuschuk E. (WRME) • Criddle/Vane Homestead PP, 49.709, –99.603 – 1 ♂, 2018-08-07, leg. Hanuschuk E. (WRME) • Morgan’s Hill Prairie, 49.726, –99.22 – 1 ♂, 2006-08-08, leg. Patenaude A.M. (WRME) • Spruce Woods PP, 49.709, –99.264 – 1 ♂, 2018-08-09, leg. Hanuschuk E. (WRME) – 2 ♂, 2018-08-29, leg. Hanuschuk E. (WRME) • Treesbank (3 km S), 49.605, –99.599 – 1 ♂, 2018-07-03, leg. Manitoba Conservation Data Centre (WRME) • **Portage la Prairie (RM)** • Delta Marsh Field Station, 50.184, –98.384 – 1 ♀, 1984-08-16, leg. Gadawski S. (WRME) • Portage Sand Hills WMA (3 km W), 49.8, –98.324 – 3 ♂, 2019-07-31, leg. Hanuschuk E. (WRME) • **Springfield** • Nourse (3.3 km W), 49.895, –96.43 – 1 ♂, 2019-08-08, leg. Hanuschuk E. (WRME) • **Whitemouth** • Seven Sisters Falls, 50.095, –96.042 – 1 ♀, 2018-05-28, leg. Gibbs J. (WRME).

Notes. *Sphcodes atlantis* cannot easily be distinguished from *S. cressonii* (Robertson) or *S. coronus* Mitchell. Size is a primary character for distinguishing the females. Determinations of these three must be considered suspect until the genus is revised.

***Sphcodes banksii* Lovell 1909** (*mandibularis* group) (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.011, –96.93 – 1 ♂, 2018-07-13, leg. Hanuschuk E., ex. *Asclepias ovalifolia* (WRME) • Birds Hill PP, 50.0115, –96.9065 – 1 ♂, 2017-08-05, leg. Gibbs J. & Nozoe G.Y., ex. *Solidago* (WRME) • Birds Hill PP, 50.012, –96.93 – 2 ♂, 2017-09-02, leg. Gibbs J. & Nozoe G.Y. (WRME) • Birds Hill PP, 50.033, –96.862 – 1 ♀, 2019-06-13, leg. Gibbs J. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, –99.392 – 1 ♂, 2019-06-26, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-08-28, leg. Hanuschuk E. (WRME).

Notes. *Sphcodes banksii* is likely a cuckoo of the solitary *L. vierecki* (Crawford) based on size and co-occurrence in their ranges (Gibbs *et al.* 2017). Its co-occurrence with *L. vierecki* in Manitoba lends further credence to the association.

***Sphcodes confertus* Say 1837** (*confertus* group) (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.01, –96.91 – 2 ♀, 2017-07-02, leg. Gibbs J. & Nozoe G.Y. (WRME) • Birds Hill PP, 50.011, –96.902 – 23 ♀, 2018-05-20, leg. Gibbs J. (WRME) – 6 ♀, 2019-06-13, leg. Gibbs J. (WRME) • Birds Hill PP, 50.014, –96.917 – 1 ♂, 2017-09-02, leg. Gibbs J. & Nozoe G.Y. (WRME) • **Brokenhead** • Libau (13.5 km E), 50.251, –96.512 – 3 ♀, 2019-06-24, leg. Hanuschuk E. (WRME) • Mars Hill WMA, 50.239, –96.587 – 1 ♀, 2020-07-29, leg. Gibbs J. (WRME) – 3 ♂, 2020-07-29, leg. Gibbs J. (WRME) • Mars Hill WMA, 50.241, –96.619 – 3 ♂, 2020-07-29, leg. Gibbs J. (WRME) • Mars Hill WMA, 50.266, –96.568 – 1 ♀, 2019-06-24, leg. Hanuschuk E. (WRME) • **Cornwallis** • CFB Shilo (4.3 km NW), 49.828, –99.689 – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) • CFB Shilo (4.5 km SW), 49.778, –99.689 – 1 ♀, 2019-07-10, leg. Hanuschuk E. (WRME) • **De Salaberry** • Debonair, 49.3243, –96.9412 – 1 ♀, 2020-05-16, leg. Miller R. (WRME) • **Glenboro–South Cypress** • Spirit Sands, Spruce Woods PP, 49.6637, –99.2858 – 1 ♀, 2019-07-30, leg. Onuferko T. (CMNC) • **North Cypress–Langford** • CFB Shilo (5 km NE), 49.836, –99.584 – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** • Portage Sand Hills WMA (2.5 km E), 49.799, –98.217 – 1 ♀, 2019-05-21, leg. Hanuschuk E. (WRME) • **Reynolds** • Hadashville,

49.67015, -95.89592 – 1 ♂, 2019-07-31, leg. Martini M. (WRME) • Hadashville,
49.676, -95.898 – 1 ♀, 2018-06-13, leg. Hanuschuk E. (WRME) • Marchand (7 km E),
49.434, -96.276 – 1 ♂, 2020-07-22, leg. Gibbs J., ex. *Melilotus albus* (WRME) • **Two Borders** •
Lauder (12.5 km E), 49.4044, -100.8509 – 4 ♀, 2019-05-10, leg. Brooker D. (WRME) •
Victoria Beach • Victoria Beach, 50.7, -96.55 – 1 ♀, 1923-06-24, leg. Brooks G.S. (WRME).

***Sphecodes coronus* Mitchell 1956** (*mandibularis* group) (new provincial record)

Material examined. • Birds Hill PP – 8 ♀ – 12 ♂ • Brokenhead – 11 ♀ – 5 ♂ • Division
19 – 2 ♂ • Dufferin – 1 ♂ • Emerson–Franklin – 1 ♀ – 1 ♂ • Glenboro–South Cypress – 8 ♀ –
1 ♂ • Hanover – 3 ♀ • North Cypress–Langford – 3 ♀ • Piney – 3 ♀ • Portage la Prairie – 1 ♀ •
Roland – 2 ♂ • Saint Laurent – 1 ♂ • Cornwallis – 2 ♀ • Portage la Prairie (RM) – 9 ♀ – 1 ♂ •
Springfield – 13 ♀ • Two Borders – 1 ♀ • De Salaberry – 1 ♀ • Stuartburn – 1 ♀ • Hanover –
2 ♀.

Notes. See *S. atlantis*.

***Sphecodes cressonii* (Robertson 1903)** (*mandibularis* group) (new provincial record)

Material examined. • **Glenboro–South Cypress** • Glenboro (2.5 km W), 49.565, -99.325
– 1 ♀, 2019-05-30, leg. Hanuschuk E., ex. *Taraxacum officinale* (WRME) • Spruce Woods PP,
49.6044, -99.2688 – 4 ♀, 2017-05-27, leg. Gibbs J. (WRME) • Spruce Woods PP,
49.664, -99.29 – 1 ♀, 2017-05-27, leg. Gibbs J. (WRME) • **Hanover** • Kleefeld,
49.502, -96.903 – 1 ♀, 2019-07-29, leg. Shukla-Bergen S. (WRME) • **Portage la Prairie (RM)**
• Portage Sand Hills WMA (6.5 km E), 49.798, -98.165 – 1 ♀, 2019-06-14, leg. Hanuschuk E.,
ex. *Sisyrinchium montanum* (WRME) • **Reynolds** • Sandilands, 49.635, -95.922 – 1 ♀,
2018-05-21, leg. Gibbs J. (WRME) – 1 ♀, 2018-05-21, leg. Gibbs J., ex. *Fragaria* (WRME) •
Sandilands, 49.676, -95.898 – 1 ♀, 2018-05-21, leg. Gibbs J., ex. *Taraxacum officinale*
(WRME) – 2 ♀, 2018-05-21, leg. Gibbs J. (WRME) • **Whiteshell Provincial Park** • Seven
Sisters Falls (9.7 km E), 50.11, -95.887 – 1 ♂, 2018-08-08, leg. Hanuschuk E. (WRME).

Notes. See *S. atlantis*.

***Sphecodes dichrous* Smith 1853** (*dichrous* group) (new provincial record)

Material examined. • **Armstrong** • Inwood, 50.42184, -97.52914 – 1 ♀, 2019-07-22, leg.
Martini M. (WRME) • Inwood, 50.527407, -97.598703 – 1 ♂, 2019-07-22, leg. Martini M.
(WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 49.9987, -96.8869 – 1 ♂, 2019-08-04,
leg. Miller R. (WRME) • Birds Hill PP, 50.0115, -96.9065 – 1 ♀, 2017-08-13, leg. Gibbs J., ex.
Solidago (WRME) • **Glenboro–South Cypress** • Aweme, 49.71, -99.6 – 1 adult, 1914-08-03,
leg. Criddle N. (WRME) • Spruce Woods PP, 49.662, -99.284 – 1 ♀, 2019-06-09, leg. Gibbs J.,
ex. *Euphorbia esula* (WRME) • **Grahamdale** • Camper, 51.0672, -98.21648 – 1 ♀, 2019-08-13,
leg. Martini M. (WRME) – 1 ♂, 2019-08-13, leg. Martini M. (WRME) • **Norfolk Treherne** •
Rathwell, 49.59126, -98.45653 – 1 ♂, 2019-07-23, leg. Martini M. (WRME) • **North Cypress–
Langford** • CFB Shilo, 49.812399, -99.513083 – 1 adult, 2009-08-13, leg. Patterson S. &
Chernos C. (WRME) • **Piney** • Whitemouth Lake, 49.3113, -95.93269 – 1 ♀, 2019-07-24, leg.
Martini M. (WRME) • **Saint Laurent** • Saint Laurent (7 km NNE), 50.474, -97.923 – 1 ♂,
2020-08-05, leg. Martini M., ex. *Cirsium arvense* (WRME) • **Winnipeg** • Winnipeg,
49.854, -97.246 – 1 ♀, 2018-08-14, leg. Hanuschuk E., ex. *Solidago rigida* (WRME) •
Winnipeg, 49.88, -97.17 – 1 ♂, 1922-07-24, leg. Mitchener A.V. (WRME).

***Sphecodes cf. galerus* Lovell & Cockerell 1907 (*mandibularis* group) (new provincial record)**

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.0115, -96.9065 – 1 ♂, 2017-08-13, leg. Gibbs J., ex. *Solidago* (WRME).

***Sphecodes illinoensis* (Robertson 1903) (*mandibularis* group) (new provincial record)**

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.01, -96.91 – 1 ♀, 1980-06-10, leg. Arntfield P.W. (WRME) – 1 ♂, 2017-08-15, leg. Gibbs J. & Nozoe G.Y. (WRME) • Birds Hill PP, 50.011, -96.93 – 3 ♀, 2018-05-25, leg. Hanuschuk E. (WRME) – 3 ♂, 2018-07-13, leg. Hanuschuk E., ex. *Asclepias ovalifolia* (WRME) – 2 ♀, 2018-07-13, leg. Hanuschuk E. (WRME) – 1 ♀, 2018-08-02, leg. Hanuschuk E., ex. *Solidago canadensis* (WRME) • Birds Hill PP, 50.011, -96.902 – 1 ♀, 2018-05-20, leg. Gibbs J. (WRME) – 1 ♀, 2019-06-13, leg. Gibbs J. (WRME) • Birds Hill PP, 50.0115, -96.9065 – 1 ♂, 2017-08-05, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♀, 2017-08-13, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♂, 2017-08-13, leg. Gibbs J. & Nozoe G.Y. (WRME) • Birds Hill PP, 50.012, -96.93 – 1 ♀, 2017-08-05, leg. Gibbs J. & Nozoe G.Y., ex. *Solidago* (WRME) – 1 ♀, 2017-08-05, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♂, 2017-08-05, leg. Gibbs J. & Nozoe G.Y. (WRME) • Birds Hill PP, 50.0315, -96.8615 – 1 ♀, 2017-08-12, leg. Gibbs J. & Nozoe G.Y. (WRME) • **Brokenhead** • Mars Hill WMA, 50.237, -96.613 – 5 ♂, 2019-08-13, leg. Hanuschuk E. (WRME) – 2 ♂, 2019-08-30, leg. Hanuschuk E. (WRME) • Mars Hill WMA, 50.266, -96.568 – 1 ♀, 2019-06-05, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, -99.392 – 1 ♀, 2019-05-30, leg. Hanuschuk E. (WRME) • **Lakeshore** • Makinak, 51.015, -99.688 – 1 ♀, 2019-08-16, leg. Shukla-Bergen S. (WRME) • **Portage la Prairie (RM)** • Delta Marsh Field Station, 50.184, -98.384 – 1 ♀, 1984-08-19, leg. Gadawski S.E. (WRME) • Portage Sand Hills WMA (2.5 km E), 49.799, -98.217 – 1 ♀, 2019-05-21, leg. Hanuschuk E. (WRME) – 2 ♀, 2019-07-05, leg. Hanuschuk E. (WRME) • **Reynolds** • Sandilands, 49.647, -96.26 – 1 ♂, 2017-08-27, leg. Gibbs J. (WRME) • Sandilands, 49.676, -95.898 – 2 ♀, 2018-05-21, leg. Gibbs J. (WRME).

***Sphecodes johnsonii* Lovell 1909 (*mandibularis* group) (new provincial record)**

Material examined. • **Stuartburn** • Tall Grass Prairie Preserve, 49.074, -96.714 – 1 ♀, 2020-08-10, leg. Gibbs J. (WRME).

Notes. The female, which is approximately 8.5 mm long, looks similar to *S. davisii*, but the first flagellomere is shorter and the pronotal dorsolateral angle is orthogonal (Ascher *et al.* 2014).

***Sphecodes levis* Lovell & Cockerell 1907 (*mandibularis* group) (new provincial record)**

Material examined. • **Reynolds** • Sandilands, 49.647, -96.26 – 1 ♂, 2017-08-27, leg. Gibbs J. (WRME).

***Sphecodes mandibularis* Cresson 1872 (*mandibularis* group) (new provincial record)**

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.012, -96.929 – 1 ♀, 1980-06-10, leg. Galloway T.D. (WRME) • **Brokenhead** • Mars Hill WMA, 50.237, -96.613 – 1 ♀, 2019-06-24, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-08-13, leg. Hanuschuk E. (WRME) • **Franklin** • Carlowrie, 49.2378, -96.9166 – 1 ♀, 2020-06-27, leg. Miller R. (WRME) • **Glenboro–South Cypress** • Spruce Woods PP, 49.709, -99.264 – 1 ♀, 2018-07-06, leg. Hanuschuk E. (WRME) • **Reynolds** • Sandilands, 49.458, -96.238 – 1 ♀, 2019-06-27, leg.

Shukla-Bergen S. (WRME) • Sandilands, 49.647, -96.26 – 1 ♂, 2017-08-27, leg. Gibbs J. (WRME) • **Whitemouth** • Seven Sisters Falls, 50.095, -96.042 – 2 ♀, 2018-05-28, leg. Gibbs J. (WRME).

***Sphecodes pecosensis pecosensis* Cockerell 1904** (*ranunculi* group) (new provincial record)

Material examined. • **Armstrong** • Clematis WMA, 50.61, -97.508 – 1 ♀, 2019-05-06, leg. Hanuschuk E. (WRME) • **Birds Hill Provincial Park** • Birds Hill PP, 50.014, -96.917 – 1 ♀, 2017-07-02, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♂, 2018-05-12, leg. Gibbs J., ex. *Arctostaphylus* (WRME) • Birds Hill PP, 50.01575, -96.85853 – 1 ♀, 2018-06-28, leg. Shaw A., ex. *Dasiphora fruticosa* (WRME) • Birds Hill PP, 50.0193, -96.8704 – 1 ♀, 2019-05-30, leg. Morgan K. (WRME) • **Brandon** • Brandon, 49.83, -99.95 – 1 ♂, 1950-06-21, leg. Stephen W.P. (WRME) • **Brokenhead** • Mars Hill WMA, 50.237, -96.613 – 1 ♀, 2019-08-30, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Aweme, 49.71, -99.6 – 1 ♂, 1992-05-28, leg. Henne D.C. (WRME) • CFB Shilo, 49.76, -99.6218 – 1 ♀, 2010-06-24, leg. Wareham K. & Patterson S. (WRME) – 1 ♀, 2010-07-08, leg. Wareham K. & Patterson S. (WRME) • Criddle/Vane Homestead PP, 49.7084, -99.6007 – 2 ♀, 2010-06-02, leg. Wareham K. & Patterson S. (WRME) – 5 ♂, 2010-06-02, leg. Wareham K. & Patterson S. (WRME) • Spruce Woods PP, 49.6599, -99.2823 – 1 ♂, 2020-05-22, leg. Miller R. (WRME) • Spruce Woods PP, 49.664, -99.29 – 1 ♂, 2017-07-02, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.7293, -99.2995 – 1 ♀, 2018-05-29, leg. Manitoba Conservation Data Centre (WRME) • Spruce Woods PP, 49.73502778, -99.21822222 – 1 ♀, 2006-06-05, leg. Patenaude A.M. (WRME) • **North Cypress–Langford** • CFB Shilo, 49.836, -99.584 – 1 ♂, 2011-06-23, leg. Wareham K. & Patterson S. (WRME) • Spruce Woods PP (1.2 km N), 49.812, -99.303 – 1 ♀, 2018-07-06, leg. Hanuschuk E. (WRME) • **Piney** • Spur Woods WMA, 49.0881, -96.0868 – 3 ♀, 2019-06-14, leg. Nakagawa P. (WRME) • St. Labre, 49.312, -96.117 – 1 ♀, 2019-05-29, leg. Shukla-Bergen S. (WRME) • **Portage la Prairie RM** • Portage la Prairie (10 km E), 49.95, -98.13 – 1 ♀, 2001-07-11, leg. Elliott B. (WRME) • **Reynolds** • Sandilands, 49.6, -96.1 – 1 ♀, 1975-05-25, leg. Galloway T.D. (WRME) • Sandilands, 49.635, -95.922 – 1 ♂, 2018-05-21, leg. Gibbs J., ex. *Amelanchier* (WRME) – 1 ♀, 2018-05-21, leg. Hanuschuk E. (WRME) • Sandilands, 49.676, -95.898 – 1 ♀, 2018-05-21, leg. Gibbs J. (WRME) • **Rockwood** • Windsor cemetery, 50.345, -97.275 – 1 ♂, 1935-08-24, leg. Hunter A.J., ex. *Solidago* (WRME) • **Stuartburn** • Lonesand, 49.221, -96.309 – 1 ♀, 2019-06-04, leg. Shukla-Bergen S. (WRME) • Tall Grass Prairie Preserve, 49.14799, -96.74098 – 1 ♀, 2018-05-15, leg. Miller R. (WRME) • Tolstoi (3 km E), 49.07, -96.767 – 1 ♂, 1998-05-23, leg. Borkowsky C. (WRME).

***Sphecodes prosporus* Lovell & Cockerell 1907** (*dichrous* group) (new provincial record)

Material examined. • **Division 19** • Fisher Bay, 51.56822, -97.41889 – 1 ♂, 2019-08-15, leg. Martini M. (WRME) • **North Cypress–Langford** • CFB Shilo, 49.8124, -99.5131 – 1 adult, 2009-08-13, leg. Patterson S. & Chernos C. (WRME) • **Portage la Prairie (RM)** • Delta Marsh Field Station, 50.184, -98.384 – 1 ♂, 1984-08-24, leg. Gadawski S.E. (WRME) • **Reynolds** • Hadashville, 49.64401, -95.88182 – 1 ♂, 2019-07-31, leg. Martini M. (WRME) • Sandilands, 49.647, -96.26 – 2 ♂, 2017-08-27, leg. Gibbs J. (WRME) • **Winnipeg** • Winnipeg, 49.88, -97.17 – 1 ♀, 1936-06-17, leg. Mitchener A.V. (WRME).

***Sphecodes pycnanthemis* Robertson 1897** (*mandibularis* group)

Material examined. • **Portage la Prairie (RM)** • Portage la Prairie, 49.887, -98.297 – 1 ♂, 2019-08-18, leg. Hanuschuk E. (WRME).

Notes. *Sphecodes pycnanthemi* is a poorly known species. New York specimens were compared directly to the lectotype and were subsequently used to assist the identification of the Manitoba specimen.

***Sphecodes smilacinae* Robertson 1897** (*mandibularis* group) (new provincial record)

Material examined. • **Reynolds** • Sandilands, 49.635, -96.915 – 1 ♂, 2017-07-30, leg. Gibbs J. (WRME) – 1 ♂, 2017-08-19, leg. Gibbs J. (WRME) • Sandilands, 49.647, -96.26 – 1 ♂, 2017-08-19, leg. Gibbs J. (WRME).

Note. Both sexes are entirely black. These were originally determined as *S. nigricorpus* Mitchell 1956 using Mitchell's (1960) key, a species known only from the male sex. However, a DNA barcode matches a female specimen from Virginia identified as *S. smilacinae*. *Sphecodes smilacinae* is known only from the female and is unusual for being entirely black. Neither species is commonly recorded in the literature; *S. nigricorpus* being only known from Connecticut and *S. smilacinae* from Illinois and Minnesota (Mitchell 1956; Hurd 1979).

***Sphecodes solonis* Graenicher 1910** (*dichrous* group) (new provincial record)

Material examined. • **Division 1** • Whitemouth Lake, 49.2, -95.6 – 1 ♀, 1979-08-01, leg. Galloway T.D. (WRME) • **Two Borders** • Melita, 49.2681, -101.0294 – 1 ♀, 2020-08-08, leg. Miller R. Sorokowski B. (WRME) • **Whitemouth** • Seven Sisters, 50.1, -96 – 1 ♀, 1983-06-09, leg. Ralley W.E. (WRME) • Seven Sisters, 50.12, -96.04 – 1 ♀, 1983-06-09, leg. Galloway T.D. (WRME) – 1 ♀, 1983-06-19, leg. Galloway T.D. (WRME) • **Winnipeg** • University of Manitoba, golf course, 49.813, -97.14 – 1 ♀, 2019-05-19, leg. Gibbs J. (WRME).

***Sphecodes townesi* Mitchell 1956** (*mandibularis* group) (new provincial record)

Material examined. • **Brokenhead** • Mars Hill WMA, 50.237, -96.613 – 2 ♀, 2019-08-30, leg. Hanuschuk E. (WRME).

Note. *Sphecodes townesi* is similar to *S. levis* above, but DNA barcodes of the male of *S. levis* above one of the female *S. townesi* recorded here, are quite distinct.

ROPHITINAE: Rophitini

***Dufourea harveyi* (Cockerell 1906)** (new provincial record)

Material examined. • **Armstrong** • Clematis WMA, 50.61, -97.508 – 1 ♀, 2019-07-24, leg. Hanuschuk E. (WRME) • **Division 19** • Gypsumville (67.5 km NNW), 52.354, -98.888 – 1 ♂, 2020-07-21, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) – 3 ♀, 2020-07-30, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) – 5 ♀, 2020-08-15, leg. Shukla-Bergen S., ex. *Dasiphora fruticosa* (WRME) • **Stuartburn** • Tall Grass Prairie Preserve, 49.074, -96.714 – 1 ♀, 2020-08-10, leg. Gibbs J. (WRME) • Tall Grass Prairie Preserve, 49.09, -96.754 – 1 ♀, 2020-08-10, leg. Gibbs J., ex. *Dasiphora fruticosa* (WRME).

Notes. *Dufourea harveyi* is oligolectic on *Dasiphora* (Rosaceae). It was previously considered a synonym of *D. fimbriata* (Cresson) (Dumesh and Sheffield 2012; Gibbs *et al.* 2014).

MEGACHILINAE: Anthidiini

***Anthidium (Anthidium) manicatum manicatum* Linnaeus 1758**

Material examined. • **Winnipeg** • Winnipeg, 49.8772, -97.173 – 1 ♀, 2019-07-12, leg. Gibbs J. (WRME) – 1 ♂, 2019-07-12, leg. Gibbs J. (WRME) • Winnipeg, 49.8818, -97.1728 – 1 ♂, 2018-07-08, leg. Gibbs J. (WRME) • Winnipeg, 49.887, -97.131 – 5 ♀, 2018-07-26, ex. *Salvia*, leg. Hanuschuk E. (WRME).

Notes. *Anthidium manicatum* is a widely distributed exotic species, introduced to North American from the Western Palaearctic (Pechuman 1967; Smith 1991; Gibbs and Sheffield 2009; Strange *et al.* 2011). It has been observed in central Winnipeg on iNaturalist (30258330, 87342922, 88640130).

***Dianthidium (Dianthidium) parvum* (Cresson 1878) (new Canadian record)**

Material examined. • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, -99.392 – 1 ♀, 2019-07-19, leg. Hanuschuk E. (WRME) • Assiniboine Corridor WMA, 49.593, -99.346 – 1 ♀, 2019-08-09, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-08-09, leg. Hanuschuk E. (WRME) • Parsons Hill, 49.6826, -99.2696 – 2 ♀, 2018-07-02, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.6611, -99.268 – 1 ♀, 2019-07-06, leg. Dizon C. (WRME) • Spruce Woods PP, 49.73, -99.294 – 1 ♂, 2018-08-09, leg. Hanuschuk E., ex. *Erigeron glabellus* (WRME) • Yellow Quill, 49.709, -99.264 – 1 ♀, 2018-06-22, leg. Gibbs J. (WRME) • Spirit Sands, Spruce Woods PP, 49.6640, -99.2951 – 1 ♀, 2019-07-16, leg. Onuferko T. (CMNC) • **North Cypress–Langford** • CFB Shilo (5 km NE), 49.836, -99.584 – 1 ♀, 2019-07-10, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-08-21, leg. Hanuschuk E. (WRME) – 1 ♂, 2019-08-21, leg. Hanuschuk E. (WRME) • CFB Shilo (9 km E), 49.807, -99.511 – 1 ♀, 2019-08-04, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-08-21, leg. Hanuschuk E. (WRME).

Notes. *Dianthidium parvum* was mentioned in a recent paper without detailed records as *D. concinnum* (Cresson, 1872) (Semmler *et al.* 2018). This is a poorly documented species, so additional taxonomic study is warranted.

***Stelis (Stelis) nitida* Cresson 1878 (*foederalis* group) (new provincial record)**

Material examined. • **Clanwilliam–Erickson** • Erickson, 50.49, -99.91 – 1 ♂, 1985-06-30, leg. Pengelly D.H. (WRME) • **Division 19** • Gypsumville (67.5 km NNW), 52.354, -98.888 – 1 ♀, 2020-07-06, leg. Shukla-Bergen S., ex. *Apocynum androsaemifolium* (WRME).

Notes. *Stelis nitida* has been recorded in neighbouring regions, which suggests that its occurrence in Manitoba is probable. However, it is difficult to distinguish from *S. foederalis*, which is a smaller species. These specimens are larger than *S. foederalis* identified from Manitoba, but it's possible these just are extreme representatives of that species. However, based on the large size of the apical lobes of S6, we feel this record is likely valid. Also recorded in a thesis by Martini (2022).

***Stelis (Stelis) permaculata* Cockerell 1898 (provincial record)**

Material examined. • **Glenboro–South Cypress** • CFB Shilo, 49.8363, -99.5841 – 1 ♀, 2011-08-18, leg. Wareham K. & Patterson S. (WRME) • **Reynolds** • Sandilands, 49.647, -96.26 – 1 ♂, 2017-07-30, leg. Gibbs J. & Nozoe G.Y. (WRME) • **Whitemouth** • Seven Sisters, 50.12, -96.04 – 1 ♀, 1983-07-14, leg. Galloway T.D. (WRME).

Notes. *Stelis permaculata* is a cleptoparasite of *Heriades carinata* (Cresson) (Hicks 1927). Records above were also recorded by Satyshur *et al.* (2021).

***Stelis (Stelis) aff. interrupta* Cresson 1897**

Material examined. • **Churchill** • Churchill, 58.77, –94.17 – 1 ♀, 1989-07-13, leg. Galloway T.D. (WRME).

Notes. Terry Griswold (*in litt.*) considers this an undescribed species.

MEGACHILINAE: Megachilini

***Coelioxys (Cyrtocoelioxys) modestus* Smith 1854** (new provincial record)

Material examined. • **Birds Hill Provincial Park** • Birds Hill PP, 50.01, –96.91 – 1 ♂, 2017-07-15, leg. Gibbs J. & Nozoe G.Y. (WRME) • Birds Hill PP, 50.012, –96.93 – 1 ♀, 2017-08-12, leg. Gibbs J., ex. *Solidago* (WRME) • Birds Hill PP, 50.014, –96.917 – 1 ♂, 2017-07-19, leg. Gibbs J. & Nozoe G.Y. (WRME) • Birds Hill PP, 50.033, –96.863 – 1 ♀, 2018-08-02, leg. Hanuschuk E. (WRME) • **Division 1** • Whitemouth Lake, 49.28176, –95.6435 – 1 ♀, 2019-07-24, leg. Martini M. (WRME) • **Division 19** • Gypsumville (67.5 km NNW), 52.354, –98.888 – 1 ♂, 2020-07-30, leg. Martini M., ex. *Melilotus albus* (WRME) • Gypsumville (79 km NNW), 52.456, –98.889 – 1 ♂, 2020-07-30, leg. Martini M., ex. *Melilotus albus* (WRME) • **Emerson–Franklin** • Senkiw, 49.207, –96.872 – 1 ♀, 2019-08-15, leg. Hanuschuk E., ex. *Euthamia graminifolia* (WRME) • **Glenboro–South Cypress** • Spruce Woods PP, 49.66, –99.28 – 1 ♀, 2018-06-22, leg. Gibbs J. (WRME) – 1 ♂, 2018-06-22, leg. Gibbs J. (WRME) • **Piney** • Whitemouth Lake, 49.29993, –95.83864 – 1 ♂, 2019-07-24, leg. Martini M. (WRME) • **Reynolds** • East Braintree, 49.56228, –95.59776 – 1 ♀, 2019-07-19, leg. Martini M. (WRME) • Marchand (7 km E), 49.444, –96.27 – 1 ♀, 2020-07-22, leg. Gibbs J. (WRME) • Marchand (8.5 km E), 49.452, –96.26 – 1 ♀, 2020-07-22, leg. Gibbs J. (WRME) • Richer (16.5 km E), 49.653, –96.229 – 1 ♂, 2017-07-30, leg. Gibbs J. & Nozoe G.Y. (WRME) • **Winnipeg** • Winnipeg, 49.838, –97.299 – 1 ♀, 2018-07-26, leg. Hanuschuk E., ex. *Melilotus albus* (WRME).

Notes. A cleptoparasite of *Megachile campanulae*. Also recorded on iNaturalist (54090236) and recent theses (Hanuschuk 2021; Martini 2022).

***Coelioxys (Xerocoelioxys) nodis* Baker 1975** (new Canadian record)

Material examined • **Glenboro–South Cypress** • Spruce Woods PP, 49.66, –99.28 – 1 ♂, 2019-07-06, leg. Gibbs J., ex. *Heterotheca* (WRME) • Spruce Woods PP, 49.662, –99.286 – 1 ♀, 2020-08-22, leg. Gibbs J. (WRME) • Spirit Sands, Spruce Woods PP, 49.6637, –99.2858 – 1 ♀, 2019-07-16, leg. Onuferko T. (CMNC) – 1 ♀, 2019-07-30, leg. Onuferko T. (CMNC).

Notes. *Coelioxys nodis* is known only from males from a few locations in the Great Plains (Baker 1975). We record it here with trepidation due to the limited knowledge of the species. The putative female is like that of *C. edita* Cresson but differs slightly from Colorado specimens we have examined. A related species *C. grindeliae* Cockerell is known from neighbouring provinces and states (Baker 1975); however, the sparse genal pubescence and reddish leg colour of the Manitoban specimens do not agree with *C. grindeliae*. The co-occurrence with the newly recorded *M. dakotensis* Mitchell below suggests a possible association.

***Megachile (Megachiloides) dakotensis* Mitchell 1926** (new Canadian record)

Material examined. • **Cornwallis** • CFB Shilo (4.5 km SW), 49.778, –99.689 – 1 ♂, 2019-08-04, leg. Hanuschuk E., ex. *Mulgedium oblongifolium* (WRME) • **Glenboro–South Cypress** • Spruce Woods PP, 49.66, –99.28 – 2 ♂, 2018-06-22, leg. Gibbs J. (WRME) – 2 ♂, 2019-07-06, leg. Gibbs J., ex. *Dalea candida* (WRME) – 1 ♂, 2019-07-06, leg. Gibbs J., ex. *Heuchera* (WRME) – 3 ♂, 2019-07-06, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.663, –99.287 – 1 ♀, 2017-07-07, leg. Gibbs J. & Nozoe G.Y. (WRME) – 1 ♂, 2017-07-07, leg. Gibbs J. & Nozoe G.Y. (WRME) • Spruce Woods PP, 49.663, –99.279 – 2 ♂, 2017-07-07, leg. Gibbs J. & Nozoe G.Y. (WRME) • Spruce Woods PP, 49.7293, –99.2995 – 1 ♂, 2018-05-29, leg. Manitoba Conservation Data Centre (WRME) • Spirit Sands, Spruce Woods PP, 49.6637, –99.2858 – 1 ♂, 2019-07-16, leg. Onuferko T. (CMNC) – 2 ♀, 2019-07-30, leg. Onuferko T. (CMNC); Bald Head Hills, Glenboro (13 mi N) – 1 ♀, 1958-08-18, leg. Chilcott J.G. (CNC).

***Megachile (Megachiloides) wheeleri* Mitchell, 1927** (new provincial record)

Material examined. **Two Borders** • Lyleton – 1 ♂ 1939-08-03, leg. Peterson, L. (Royal Saskatchewan Museum).

***Megachile (Phaenosarus) fortis* Cresson 1872**

Material examined. • **Glenboro–South Cypress** • Aweme – 1 ♂, 1925-08-14, leg. Bird R.D. (CNC).

Notes. *Megachile fortis* was previously recorded in a thesis (Ivanochko 1979).

MEGACHILINAE: Osmiini

***Ashmeadiella (Ashmeadiella) buconis buconis* (Say 1837)** (new provincial record)

Material examined. • **Cornwallis** • CFB Shilo (4.3 km NW), 49.828, –99.689 – 1 ♀, 2019-07-10, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Criddle/Vane Homestead PP, 49.709, –99.603 – 1 ♀, 2018-06-28, leg. Hanuschuk E. (WRME) • Parsons Hill, 49.6826, –99.2696 – 2 ♀, 2018-07-02, leg. Gibbs J. (WRME) • Spruce Woods PP, 49.2, –99.1 – 1 ♀, 1986-07-03, leg. Galloway T.D. (WRME) • Spruce Woods PP, 49.66, –99.28 – 1 ♂, 2019-07-06, leg. Gibbs J., ex. *Heterotheca* (WRME) • Spruce Woods PP, 49.6626, –99.2835 – 1 ♀, 2017-07-07, leg. Gibbs J. & Nozoe G.Y. (WRME) • Spruce Woods PP, 49.73, –99.294 – 1 ♂, 2018-07-06, leg. Chhoker K., ex. *Euphorbia esula* (WRME) – 1 ♀, 2018-07-06, leg. Hanuschuk E., ex. *Heterotheca villosa* (WRME) – 1 ♀, 2018-07-20, leg. Hanuschuk E. (WRME) • Spirit Sands, Spruce Woods PP, 49.6637, –99.2858 – 1 ♀, 2019-07-16, leg. Onuferko T. (CMNC) • **Sifton** • Virden (10.7 km SSE), 49.7710, –100.8448 – 1 ♂, 2021-06-30, leg. Abel O. (CMNC).

Notes. Recorded previously from Parsons Hill on iNaturalist (14326544).

***Hoplitis (Alcidamea) truncata* (Cresson 1878)** (new provincial record)

Material examined. • **Division 19** • Gypsumville (79 km NNW), 52.456, –98.889 – 1 ♀, 2020-07-06, leg. Shukla-Bergen S., ex. *Melilotus albus* (WRME) • **Piney** • Spur Woods WMA, 49.088, –96.0686 – 1 ♀, 2019-08-12, leg. Nakagawa P. Sinclair C., ex. *Agastache foeniculum* (WRME) • **Reynolds** • Sandilands, 49.539, –96.105 – 1 ♀, 2019-06-27, leg. Shukla-Bergen S. (WRME).

Notes. First recorded in a thesis by Martini (2022).

***Osmia (Cephalosmia) subaustralis* Cockerell 1900** (new provincial record)

Material examined. • **Division 19** • Gypsumville (79 km NNW), 52.456, -98.889 – 1 ♀, 2020-07-20, leg. Shukla-Bergen S., ex. *Rudbeckia hirta* (WRME) – 1 ♀, 2020-07-20, leg. Shukla-Bergen S., ex. *Sonchus arvensis* (WRME).

Notes. *Osmia subaustralis* is likely oligolectic on Compositae. It nests in pre-existing cavities (Rust 1974). Eastern populations in Michigan and Ontario seem relatively disjunct from western sites (Rust 1974; Gibbs *et al.* 2017), so these records help fill a gap in its distribution. It was first recorded in a thesis by Martini (2022).

***Osmia (Melanosmia) cyaneonitens* Cockerell 1906** (new provincial record)

Material examined. **Cornwallis** • CFB Shilo (4.3 km NW), 49.828, -99.689 – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) • **North Cypress–Langford** • CFB Shilo (5 km NE), 49.836, -99.584 – 1 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) • **Portage la Prairie (RM)** • Portage Sand Hills Wildlife Management Area, 49.8, -98.324 – 2 ♂, 2019-06-14, leg. Hanuschuk E. (WRME) • Portage Sand Hills Wildlife Management Area, 49.799, -98.217 – 1 ♂, 2019-06-14, leg. Hanuschuk E., ex. *Erysimum asperum* (WRME).

Notes. *Osmia cyaneonitens* was previously recorded on the Barcode of Life Data System (BOLD) (<https://www.boldsystems.org/>). DNA barcodes match other specimens collected from Saskatchewan and Minnesota.

***Osmia (Melanosmia) cf. grindeliae* Cockerell 1910**

Material examined. **Churchill** • Churchill, 58° 53' 57", -94° 06' 39" – 1 ♀, 2004-08-04, leg. Taki. H. & Kevan P.G. (Packer Collection, York University).

Notes. Possibly an undescribed species, this was labelled by Molly Rightmyer as 'sp. A (nr. *grindeliae*)'. The specimen is DNA barcoded and matches other unidentified material from the Yukon and Northwest Territories on BOLD.

***Osmia (Melanosmia) illinoensis* Robertson 1897** (new Canadian record)

Material examined. • **Cornwallis** • CFB Shilo (4.3 km NW), 49.828, -99.689 – 5 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • Assiniboine Corridor WMA, 49.584, -99.392 – 3 ♀, 2019-05-30, leg. Hanuschuk E. (WRME) • Assiniboine Corridor WMA, 49.593, -99.346 – 1 ♀, 2019-05-30, leg. Hanuschuk E. (WRME) • **North Cypress–Langford** • CFB Shilo (5 km NE), 49.836, -99.584 – 3 ♀, 2019-05-23, leg. Hanuschuk E. (WRME) • CFB Shilo (9 km E), 49.807, -99.511 – 1 ♂, 2019-05-23, leg. Hanuschuk E. (WRME).

Notes. *Osmia illinoensis* is a brilliant green species, with very few documented records.

***Osmia (Melanosmia) inspergens* Lovell & Cockerell 1907** (new provincial record)

Material examined. • **Piney** • Sandilands, 49.4, -96.208 – 1 ♂, 2019-05-29, leg. Shukla-Bergen S. (WRME) • **Reynolds** • Sandilands, 49.51, -96.187 – 1 ♀, 2019-06-27, leg. Shukla-Bergen S. (WRME) • Sandilands, 49.635, -95.922 – 1 ♂, 2018-05-21, leg. Gibbs J. (WRME).

***Osmia (Melanosmia) nigrifrons* Cresson 1878**

Notes. Two specimens on BOLD recorded from Manitoba without specific locality information (PCYU). A third record on BOLD has more specific details: Churchill (14 km E), Twin Golf Balls, 58.63, -93.8, 2005-08-02 (WRME), but this specimen cannot be located in WRME.

***Osmia (Melanosmia) paradisica* Sandhouse 1924**

Notes. A DNA barcoded specimen exists on BOLD, which matches samples from the Yukon and Quebec. We were not able to re-examine the voucher.

***Osmia (Melanosmia) proxima* Cresson 1864 (new provincial record)**

Material examined. • Armstrong – 11 ♀ – 2 ♂ • Bifrost–Riverton – 1 ♀ • Birds Hill PP – 2 ♀ • Brokenhead – 1 ♀ • Clanwilliam–Erickson – 3 ♀ • Division 19 – 19 ♀ • Emerson–Franklin – 1 ♀ – 2 ♂ • Glenboro–South Cypress – 1 ♂ • Hanover – 3 ♀ • Reynolds – 7 ♀ – 1 ♂ • The Pas – 1 ♀ • Winnipeg – 5 ♀ • Woodlands – 2 ♀ • Portage la Prairie (RM) – 2 ♀ • Rockwood – 1 ♀ • Springfield – 5 ♀ • Kelsey – 6 ♀ • Stuartburn – 14 ♀ – 2 ♂ • Victoria Beach – 1 ♀ • Franklin – 2 ♀ • La Broquerie – 1 ♀.

***Osmia (Melanosmia) subarctica* Cockerell 1912 (new provincial record)**

Material examined. • **Armstrong** • Inwood (5.0 km N), 50.551, -97.508 – 1 ♀, 2019-06-27, leg. Hanuschuk E. (WRME) • Sandridge WMA, 50.581, -97.495 – 1 ♂, 2019-05-14, leg. Hanuschuk E. (WRME) • **Emerson–Franklin** • Carlowrie (1.6 km S), 49.237, -96.964 – 1 ♂, 2019-06-10, leg. Hanuschuk E. (WRME) • Carlowrie (3.5 km SE), 49.238, -96.917 – 1 ♂, 2019-05-17, leg. Hanuschuk E. (WRME) • Senkiw, 49.207, -96.872 – 1 ♂, 2019-06-10, leg. Hanuschuk E. (WRME) – 1 ♀, 2019-07-04, leg. Hanuschuk E., ex. *Prunella vulgaris* (WRME) • **Franklin** • Senkiw, 49.2064, -96.8717 – 1 ♂, 2020-05-16, leg. Miller R. (WRME) • **Stuartburn** • Tall Grass Prairie Preserve, 49.0902, -96.7359 – 2 ♀, 2010-06-14, leg. Semmler S. (WRME) • Tall Grass Prairie Preserve, 49.0902, -96.7358 – 1 ♀, 2010-06-29, leg. Semmler S. (WRME) • Tall Grass Prairie Preserve, 49.090242, -96.735919 – 1 ♀, 2011-06-24, leg. Semmler S. (WRME) • Tall Grass Prairie Preserve, 49.092042, -96.735919 – 1 ♀, 2011-06-24, leg. Semmler S. (WRME) • tall Grass Prairie Preserve, 49.15752, -96.65021 – 2 ♀, 2018-05-20, leg. Miller R. (WRME) • Tall Grass Prairie Preserve, 49.17545, -96.74058 – 1 ♀, 2018-05-12, leg. Miller R. (WRME) • Vita, 49.149, -96.646 – 1 ♀, 2019-07-11, leg. Shukla-Bergen S. (WRME).

Notes. The type locality is Hudson's Bay, but the province that refers to is unclear. The type was accessioned in 1844 at a time when the Hudson's Bay Company had trading posts across northern Canada, including modern-day Quebec, Ontario, and Manitoba, all of which touch Hudson's Bay.

***Osmia (Melanosmia) trevoris* Cockerell 1897 (new provincial record)**

Material examined. • **Armstrong** • Sandridge WMA, 50.581, -97.495 – 1 ♀, 2019-05-06, leg. Hanuschuk E. (WRME) • **Glenboro–South Cypress** • YellowQuill Mixed Grass Prairie Preserve, 49° 40' 51", -99° 33' 16" – 1 ♀, 2005-05-16, leg. Patenaude A. (AMNH) • YellowQuill Mixed Grass Prairie Preserve, 49° 41' 28", -99° 34' 29" – 1 ♀, 2006-05-16, leg. Patenaude A. (AMNH) – 1 ♀, 2006-06-06, leg. Patenaude A. (AMNH) • **Reynolds** • Sandilands, 49.6, -96.1 – 1 ♀, 1976-06-19, leg. Madder M.C.A. (WRME) • **Shellmouth–Boulton** • Shellmouth, 50.942836, -101.41199 – 1 ♀, 2014-06-07, leg. Olynyk M. (WRME).

***Osmia (Melanosmia) virga* Sandhouse 1939**

Material examined. • **Piney** • Sandilands, 49.4, -96.208 – 2 ♀, 2019-05-29, leg. Shukla-Bergen S. (WRME) • **Reynolds** • Sandilands PF, 49.635, -95.922 – 3 ♀, 2018-06-13, leg. Hanuschuk E. (WRME).

Notes. *Osmia virga* is believed to be oligolectic on Ericaceae.

Additional specimens not reported in Gibbs *et al.* (2021) are recorded below.

Material examined (Gibbs *et al.* 2021). • Armstrong – 7 ♀ • La Broquerie – 1 ♀ • Piney – 1 ♂ • Portage la Prairie (RM) – 1 ♀ 1 ♂ • Reynolds – 12 ♀ 7 ♂ • Riding Mountain National Park – 1 ♀ • Springfield – 1 ♀ • Stuartburn – 3 ♀ • Whitemouth – 1 ♂.

Additional material examined. **Division 19** • Grand Rapids (52 km SSE), 52.751, -98.96 – 2 ♀, 2020-07-07, leg. Martini M., ex. *Apocynum androsaemifolium* (WRME) – 6 ♂, 2020-07-07, leg. Martini M., ex. *Apocynum androsaemifolium* (WRME) – 3 ♂, 2020-07-07, leg. Shukla-Bergen S., ex. *Lysimachia ciliata* (WRME) – 18 ♀, 2020-07-20, leg. Martini M., ex. *Apocynum androsaemifolium* (WRME) – 2 ♂, 2020-07-20, leg. Martini M., ex. *Apocynum androsaemifolium* (WRME) – 1 ♀, 2020-07-20, leg. Martini M., ex. *Melilotus albus* (WRME) – 2 ♂, 2020-07-20, leg. Martini M., ex. *Melilotus albus* (WRME) – 1 ♀, 2020-07-20, leg. Shukla-Bergen S., ex. *Lysimachia ciliata* (WRME) – 1 ♀, 2020-07-20, leg. Shukla-Bergen S., ex. *Symphoricarpos occidentalis* (WRME) – 1 ♂, 2020-07-20, leg. Shukla-Bergen S., ex. *Symphoricarpos occidentalis* (WRME) – 2 ♀, 2020-07-31, leg. Martini M., ex. *Apocynum androsaemifolium* (WRME) – 2 ♀, 2020-07-31, leg. Shukla-Bergen S., ex. *Melilotus albus* (WRME) – 1 ♀, 2020-07-31, leg. Shukla-Bergen S., ex. *Symphoricarpos occidentalis* (WRME) • Grand Rapids (70 km SSE), 52.591, -98.892 – 1 ♀, 2020-07-07, leg. Martini M., ex. *Sanicula marilandica* (WRME) – 2 ♀, 2020-07-21, leg. Martini M., ex. *Lysimachia ciliata* (WRME) – 1 ♀, 2020-07-31, leg. Shukla-Bergen S., ex. *Lysimachia ciliata* (WRME) • **Grahamdale** • Hilbre (3 km SW), 51.479, -98.616 – 1 ♀, 2020-07-02, leg. Martini M., ex. *Astragalus laxmannii* (WRME) – 1 ♀, 2020-07-14, leg. Martini M., ex. *Apocynum androsaemifolium* (WRME).

Notes. Another record of *M. nuda* is available on iNaturalist (86771509).

SPECIES REMOVED FROM THE MANITOBA FAUNAL LIST

***Andrena (Ptilandrena) geranii* Robertson 1891**

Published records (Patenaude 2007). Yellow Quill.

Notes. Laberge (1977) recorded *A. geranii* from Beaverlodge, Alberta and east to Quebec, so it may occur in Manitoba. The only published records we have found are from a long series of *A. (Ptilandrena)* collected during Patenaude's thesis work. Patenaude's series have noticeably hooked tibial spurs and a clear impunctate medial line on the clypeus. DNA barcodes from the Manitoban series do not match *A. geranii* from Michigan (Jason Gibbs, unpublished data). We feel they are closer in some respects to *A. nigrihirta*; however, morphological comparison to that species and the related *A. algida* show they are distinct. We include this distinctive species in our list as *A. aff. nigrihirta* until a more complete taxonomic treatment can be undertaken. Both *A. geranii* and *A. nigrihirta* are variable, but we cannot ascribe the name *A. geranii* to any Manitoban specimens we have examined. We also record *Andrena* cf. *campanulae* above, which has been previously treated as a synonym of *A. geranii*.

***Andrena (Gonandrena) platyparia* Robertson 1895**

Published records (LaBerge and Ribble 1972). Winnipeg.

Notes. A male specimen from Winnipeg, determined by W.E. LaBerge, was re-examined from the CNC. It was found to be *A. persimulata*. Similarly, an old record of *A. fragilis* from Aweme (Criddle *et al.* 1924) at the CNC was also determined to be a male *A. persimulata*

***Andrena (Rhacandrena) robertsonii* Dalla Torre 1896**

Published records (Patenaude 2007). Yellow Quill.

Notes. Only a single specimen record from the province is known. Re-examination of the specimen revealed it was instead *Andrena persimulata*, a species also recorded in the same study.

***Andrena (Simandrena) nasonii* Robertson 1895**

Published records (LaBerge 1989). Teulon.

Material examined. 1 ♂, Teulon, 1922-V-22, leg. Hunter A.J. [CNC].

Notes. A single male at the CNC identified by W.E. LaBerge was examined. The specimen has the first flagellomere equal to the third and distinctly longer than the second. Also, the metapostnotum lacks transverse rugae apically and has a flat pleural signum. There are faint indications of tergal fasciae laterally, but these are quite sparse. Based on this combination of characters it seems more likely that this a male *A. wheeleri*, which LaBerge (1989) also reports from Teulon.

***Andrena (Trachandrena) ceanothi* Viereck 1917**

Published records (Patenaude 2007). Yellow Quill.

Notes. Four specimens recorded from the province are known from a thesis by Andrea Patenaude and identified, at least in part, by John Ascher. Re-examination of the specimens revealed them to be *A. sigmundi* (3 ♀ and a ♂), a species also recorded in the same study.

***Andrena (Trachandrena) quintilis* Robertson 1898**

Published records (Sheffield *et al.* 2014). Provincial record.

Notes. Specimens identified as *A. quintilis* were all found to be *Andrena cyanophila*. *Amorpha* is the preferred host plant of *A. quintilis*. Despite some effort to collect from *Amorpha*, no *A. quintilis* have yet been found in Manitoba.

***Colletes albescens* Cresson 1868 (*americanus* group)**

Published records (Stephen 1954). Aweme.

Notes. A single male determined by W.P. Stephen is at the CNC, but we believe it to be *C. americanus* based in part on the shape of the 7th tergum. It was collected by Norman Criddle in Aweme on 1913-09-01. Although Stephen (1954) distinguishes *C. albescens* by the long malar spaces (equal to the mandibular width in males), this specimen has a malar space less than half the mandibular width. The collection date slightly exceeds the range of dates for *C. albescens* and the blooming period of its host plant, *Amorpha*.

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***Lasioglossum (Hemihalictus) pectoraloides* (Cockerell 1895)**

Published records (Criddle *et al.* 1924; Patenaude 2007) Aweme; Yellow Quill.

Notes. Andrea Patenaude recorded 33 specimens in her thesis. These were re-examined and found to be *L. pectorale*. No specimens of *L. pectoraloides* have been examined from Manitoba (Gibbs *et al.* 2013a).

***Lasioglossum (Lasioglossum) forbesii* (Robertson 1890).**

Published records (Canadian Endangered Species Conservation Council 2015). No specific record.

Notes. Until the taxonomic revision by McGinley (1986), this name was used broadly to include what are now known to be multiple species, including *L. acuminatum* and the widespread *L. paraforbesii*. The nearest record to Manitoba recognized by McGinley was in central Wisconsin. Specimens in WRME with this name applied included species from four subgenera of *Lasioglossum*.

***Dianthidium (Dianthidium) concinnum* (Cresson, 1872)**

Published records (Semmler *et al.* 2018). Provincial record.

Notes. This species was misidentified but is now believed to represent *D. parvum* (see above).

***Osmia (Melanosmia) giliarum* Cockerell 1906**

Published records (Sheffield *et al.* 2014). Provincial record (as *O. physariae* Cockerell).

Notes. This species was recorded by Canadian Endangered Species Conservation Council (2015); however, no material is known to us. It could be that this species, like the other *Osmia* spp., excluded below, may eventually prove to be present.

***Osmia (Melanosmia) inurbana* Cresson 1878**

Published records (Sheffield *et al.* 2014). Provincial record.

Notes. No reliable records of this species could be found for the province. Two males at the CNC identified by Sandhouse as the junior synonym *O. eutrichosa* Cockerell are believed to be one each of *O. tersula* and *O. atriventris*. Both have distinct projections on the metabasitarsus, which is inconsistent with *O. inurbana*. *Osmia inurbana* and *O. tersula* may be confused and this group is in need of a detailed study.

***Osmia (Melanosmia) pumila* Cresson 1864**

Published records (Sheffield *et al.* 2014). Provincial record.

Notes. *Osmia pumila* could plausibly occur in southeastern Manitoba, but no specimens have been examined.

***Osmia (Melanosmia) sculleni* Sandhouse 1939**

Published records (Sheffield *et al.* 2014). Provincial record.

Notes. No specimens of this *Hackelia* (Boraginaceae) specialist have been examined. The female has a distinctive clypeus and hamate bristles on the maxilla (Sandhouse 1939).

Literature cited

Abrams, J., and Eickwort, G.C. 1981. Nest switching and guarding by the communal sweat bee *Agapostemon virescens* (Hymenoptera, Halictidae). *Insectes Sociaux*, **28**: 105–116.

<http://doi.org/10.1007/BF02223699>.

- Alexander, B.A., and Schwarz, M. 1994. A catalog of the species of *Nomada* (Hymenoptera: Apoidea) of the world. The University of Kansas Science Bulletin, **55**: 239–270.
- Ascher, J.S., Kornbluth, S., and Goelet, R.G. 2014. Bees (Hymenoptera: Apoidea: Anthophila) of Gardiners Island, Suffolk County, New York. Northeastern Naturalist, **21**: 47–71. <http://doi.org/10.1656/045.021.0105>.
- Baker, J.R. 1975. Taxonomy of five nearctic subgenera of *Coelioxys* (Hymenoptera: Megachilidae). The University of Kansas Science Bulletin, **50**: 49–730.
- Canadian Endangered Species Conservation Council. 2015. Wild Species 2015: The general status of species in Canada.
- Cockerell, T.D.A. 1899. Notes on American bees. The Entomologist, **32**: 154–159.
- Criddle, N. 1925. The Entomological Record, 1924. Annual Report of the Entomological Society of Ontario, **55**: 89–106.
- Criddle, N., Curran, C.H., Viereck, H.L., and Buckell, E.R. 1924. The Entomological Record, 1923. Annual Report of the Entomological Society of Ontario, **54**: 87–102.
- Donovan, B.J. 1977. A revision of North American bees of the subgenus *Cnemidandrena* (Hymenoptera: Andrenidae). University of California Publications in Entomology, **81**: 1–107.
- Droege, S., Rightmyer, M.G., Sheffield, C.S., and Brady, S.G. 2010. New synonymies in the bee genus *Nomada* from North America. **32**: 1–32.
- Dumesh, S., and Sheffield, C.S. 2012. Bees of the genus *Dufourea* Lepeletier (Hymenoptera: Halictidae: Rophitinae) of Canada. Canadian Journal of Arthropod Identification, **20**: 1–36. <http://doi.org/10.3752/cjai.2012.20>.
- Eickwort, G.C., and Abrams, J. 1980. Parasitism of sweat bees in the genus *Agapostemon* by cuckoo bees in the genus *Nomada* (Hymenoptera: Halictidae, Anthophoridae). The Pan-Pacific Entomologist, **56**: 144–152.
- Fredenburg, A.N., Gibbs, J., and Henne, D.C. 2021. A Survey of Wild Bees (Hymenoptera: Anthophila) in Thunder Bay, Ontario, and Their Floral Associations. Journal of the Kansas Entomological Society, **93**: 211–229. <http://doi.org/10.2317/0022-8567-93.3.211>.
- Gardner, J., and Gibbs, J. 2021. New and little-known Canadian *Lasioglossum* (*Dialictus*) (Hymenoptera: Halictidae) and an emended key to species. The Canadian Entomologist, **154**: e3. <http://doi.org/10.4039/tce.2021.47>.
- Gibbs, J. 2010. Revision of the metallic species of *Lasioglossum* (*Dialictus*) in Canada (Hymenoptera, Halictidae, Halictini). Zootaxa, **3073**: 1–382.
- Gibbs, J. 2018. DNA barcoding a nightmare taxon: Assessing barcode index numbers and barcode gaps for sweat bees. Genome, **61**: 21–31. <http://doi.org/10.1139/gen-2017-0096>.
- Gibbs, J., Ascher, J.S., Rightmyer, M.G., and Isaacs, R. 2017. The bees of Michigan

- (Hymenoptera: Apoidea: Anthophila), with notes on distribution, taxonomy, pollination, and natural history. *Zootaxa*, **4352**: 1–160. <http://doi.org/10.11646/zootaxa.4352.1.1>.
- Gibbs, J., Dumesh, S., and Griswold, T.L. 2014. Bees of the genera *Dufourea* and *Dieunomia* of Michigan (Hymenoptera: Apoidea: Halictidae), with a key to the *Dufourea* of the eastern United States. *Journal of Melittology*, **3**: 1–15. <http://doi.org/10.17161/jom.v0i29.4652>.
- Gibbs, J., Hanuschuk, E., and Shukla-Bergen, S. 2021. Rediscovery of the rare bee *Epeoloides pilosulus* in Manitoba (Hymenoptera: Apidae). *Journal of the Kansas Entomological Society*, **93**: 176–182.
- Gibbs, J., Packer, L., Dumesh, S., and Danforth, B.N. 2013. Revision and reclassification of *Lasioglossum (Evylaeus)*, *L. (Hemihalictus)* and *L. (Sphecodogastra)* in eastern North America (Hymenoptera: Apoidea: Halictidae). *Zootaxa*, **3672**: 1–117.
- Gibbs, J., and Sheffield, C.S. 2009. Rapid range expansion of the wool-carder bee, *Anthidium manicatum* (Linnaeus) (Hymenoptera: Megachilidae), in North America. *Journal of the Kansas Entomological Society*, **82**: 21–29. <http://doi.org/10.2317/JKES805.27.1>.
- Goldstein, P.Z., and Ascher, J.S. 2016. Taxonomic and behavioral composition of an island fauna: A survey of bees (Hymenoptera: Apoidea: Anthophila) on Martha's Vineyard, Massachusetts. *Proceedings of the Entomological Society of Washington*, **118**: 37–92. <http://doi.org/10.4289/0013-8797.118.1.37>.
- Gusenleitner, F., Schwarz, M., Ascher, J.S., and Scheuchl, E. 2005. Korrekturen und Nachträge zu Gusenleitner & Schwarz (2002): “Weltweite Checkliste der Bienengattung *Andrena* mit Bemerkungen und Ergänzungen zu paläarktischen Arten (Hymenoptera, Apidae, Andreninae, *Andrena*).” *Entomofauna*, **26**: 437–472.
- Hall, H.G., Almquist, D.T., and Ascher, J.S. 2016. A new species of *Colletes* (Hymenoptera: Apoidea: Colletidae) from northern Florida and Georgia, with notes on the *Colletes* of those states. *Journal of Melittology*,: 1–20. <http://doi.org/10.17161/jom.v0i58.4993>.
- Hanuschuk, E. 2021. The effects of human-driven landscape disturbance on wild bee communities and plant–bee networks across southern Manitoba, Canada. MSc thesis, University of Manitoba, Winnipeg, Manitoba, Canada.
- Hicks, B., and Sheffield, C. 2021. Native bees (Hymenoptera; Apoidea) collected from Labrador, Canada. *Journal of the Acadian Entomological Society*, **17**: 24.
- Hicks, C.H. 1927. *Stelis permaculata* Ckll., a parasite of *Heriades carinatus* Cress. (Hymen.: Stelididae and Megachilidae). *Entomological News*, **38**: 297–300.
- Hurd, P.D. 1979. Superfamily Apoidea. In *Catalog of Hymenoptera in America North of Mexico*. Edited by K. V Krombein, P.D. Hurd Jr., D.R. Smith, and B.D. Burks. Smithsonian Institution Press, Washington, D.C. pp.1741–2209.
- Hurd, P.D., and Linsley, E.G. 1951. The melectine bees of California (Hymenoptera: Anthophoridae). *Bulletin of the California Insect Survey*, **1**: 119–140.
- Hurd, P.D., and Linsley, E.G. 1972. Parasitic bees of the genus *Holcopasites* Ashmead (Hymenoptera: Apoidea). *Smithsonian Contributions to Zoology*,: 1–40.

<http://doi.org/10.5479/si.00810282.114>.

- Ivanochko, M. 1979. Taxonomy, biology and alfalfa pollinating potential of Canadian leaf-cutter bees—genus *Megachile* Latreille (Hymenoptera: Megachilidae). PhD thesis, McGill University, Montreal, Quebec, Canada.
- LaBerge, W.E. 1969. A revision of the bees of the genus *Andrena* of the Western Hemisphere Part II. *Plastandrena*, *Aporandrena*, *Charitandrena*. Transactions of the American Entomological Society, **95**: 1–47.
- LaBerge, W.E. 1973. A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part VI. Subgenus *Trachandrena*. Transactions of the American Entomological Society, **99**: 235–371.
- LaBerge, W.E. 1977. A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part VIII. Subgenera *Thysandrena*, *Dasyandrena*, *Psammandrena*, *Rhacandrena*, *Euandrena*, *Oxyandrena*. Transactions of the American Entomological Society, **103**: 1–143.
- LaBerge, W.E. 1989. A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part XIII. Subgenera *Simandrena* and *Taeniandrena*. Transactions of the American Entomological Society, **115**: 1–56. <http://doi.org/10.2307/25078446>.
- Linsley, E.G., and MacSwain, J.W. 1942. The parasites, predators, and inquiline associates of *Anthophora linsleyi*. The American Midland Naturalist, **27**: 402–417.
- Martini, M. 2022. Pollinator biodiversity and interaction networks in anthropogenic systems – roadside verges and transmission line easements as pollinator habitat in Manitoba, Canada. MSc thesis, University of Manitoba, Winnipeg, Manitoba, Canada.
- McGinley, R.J. 2003. Studies of Halictinae (Apoidea: Halictidae), II: Revision of *Sphcodogastra* Ashmead, floral specialists of Onagraceae. Smithsonian Contributions to Zoology, **610**: 1–55.
- Metz, C.W. 1911. A revision of the genus *Prosopis* in North America [sic]. Transactions of the American Entomological Society, **37**: 85–156 + 8 pls.
- Miller, R.B. 2021. Management and landscape effects on beneficial tallgrass prairie insects – a study of bees and beetles. MSc thesis, University of Manitoba, Winnipeg, Manitoba, Canada.
- Mitchell, T.B. 1956. New species of *Sphcodes* from the eastern United States. Journal of the Elisha Mitchell Scientific Society, **72**: 206–222.
- Mitchell, T.B. 1960. Bees of the Eastern United States: volume I. N. C. Agricultural Experimental Station Technical Bulletin, **141**: 1–538.
- Onuferko, T.M. 2021. Anomalously pale-haired specimens in three genera of cleptoparasitic bees (Hymenoptera: Apidae: Nomadinae). The Great Lakes Entomologist, **54**: 54–58.
- Onuferko, T.M., Kutby, R., and Richards, M.H. 2015. A list of bee species (Hymenoptera: Apoidea) recorded from three municipalities in the Niagara region of Ontario, including a new record of *Lasioglossum furunculum* Gibbs (Halictidae) in Canada. Journal of the

Entomological Society of Ontario, **146**: 3–22.

- Onuferko, T.M., Packer, L., and Genaro, J.A. 2021. *Brachymelecta* Linsley, 1939, previously the rarest North American bee genus, was described from an aberrant specimen and is the senior synonym for *Xeromelecta* Linsley, 1939. *European Journal of Taxonomy*, **754**: 1–51. <http://doi.org/10.5852/ejt.2021.754.1393>.
- Oram, R.J. 2018. Revision of the genus *Hylaeus* Fabricius (Hymenoptera: Colletidae) in Canada. MSc thesis, University of Regina, Regina, Saskatchewan, Canada.
- Orr, M.C., Griswold, T., Pitts, J.P., and Parker, F.D. 2016. A new bee species that excavates sandstone nests. *Current Biology*, **26**: R792–R793. <http://doi.org/10.1016/j.cub.2016.08.001>.
- Packer, L. 1994. *Lasioglossum (Dialictus) tenax* (Sandhouse) (Hymenoptera: Halictidae) as a solitary sweat bee. *Insectes Sociaux*, **41**: 309–313. <http://doi.org/10.1007/BF01242302>.
- Patenaude, A. 2007. Diversity, composition and seasonality of wild bees (Hymenoptera: Apoidea) in a northern mixed-grass prairie preserve. MSc, University of Manitoba, Winnipeg, Manitoba, Canada.
- Pechuman, L.L. 1967. Observations on the behavior of the bee *Anthidium manicatum* (L.). *Journal of the New York Entomological Society*, **75**: 68–73.
- Rehan, S.M., and Sheffield, C.S. 2011. Morphological and molecular delineation of a new species in the *Ceratina dupla* species-group (Hymenoptera: Apidae: Xylocopinae) of eastern North America. *Zootaxa*, **2873**: 35–50.
- Rightmyer, M. 2008. A review of the cleptoparasitic bee genus *Triepeolus* (Hymenoptera: Apidae).—Part I. *Zootaxa*, **1710**: 1–170.
- Romankova, T. 2004. Ontario bees of tribe Epeolini: *Epeolus* Latreille and *Triepeolus* Robertson (Hymenoptera: Apidae, Nomadinae). *Journal of the Entomological Society of Ontario*, **135**: 87–99.
- Rozen, J.G. 1965. Biological Notes on the Cuckoo Bee Genera *Holcopasites* and *Neolarra* (Hymenoptera: Apoidea). *Journal of the New York Entomological Society*, **73**: 87–91.
- Rust, R.W. 1974. The systematics and biology of the genus *Osmia*, subgenera *Osmia*, *Chalcosmia*, and *Cephalosmia* (Hymenoptera: Megachilidae). *The Wasmann Journal of Biology*, **32**: 1–93.
- Sandhouse, G.A. 1939. The North American bees of the genus *Osmia* (Hymenoptera: Apoidea). *Memoirs of the Entomological Society of Washington*, **1**: 1–167.
- Satyshur, C., Evans, T., Forsberg, B., and Gibbs, J. 2021. First records of *Stelis permaculata* Cockerell (Hymenoptera: Megachilidae) in Minnesota, United States of America and Manitoba, Canada. *The Great Lakes Entomologist*, **54**: 1–3.
- Semmler, S.J., Olynyk, M., Miller, R., and Gibbs, J. 2018. First records of the resin bees, *Dianthidium pudicum pudicum* and *D. simile* (Hymenoptera: Megachilidae), in Manitoba, with a key to local species. *Proceedings of the Entomological Society of Manitoba*, **73**: 5–

- Shanks, S.S. 1977. A revision of the cleptoparasitic bee genus *Neolarra* (Hymenoptera: Anthophoridae). *The Wasmann Journal of Biology*, **35**: 212–246.
- Sheffield, C.S., Frier, S.D., and Dumesh, S. 2014. The bees (Hymenoptera: Apoidea, Apiformes) of the Prairies Ecozone, with comparisons to other grasslands of Canada. *In* *Arthropods of Canadian Grasslands (Volume 4): Biodiversity and Systematics Part 2*. Edited by D.J. Giberson and H.A. Cárcamo. Biological Survey of Canada, pp.427–467. <http://doi.org/10.3752/9780968932179.ch11>.
- Sheffield, C.S., Hebert, P.D.N., Kevan, P.G., and Packer, L. 2009. DNA barcoding a regional bee (Hymenoptera: Apoidea) fauna and its potential for ecological studies. *Molecular ecology resources*, **9 Suppl s1**: 196–207. <http://doi.org/10.1111/j.1755-0998.2009.02645.x>.
- Sheffield, C.S., and Heron, J. 2018. The bees of British Columbia (Hymenoptera: Apoidea, Apiformes). *Journal of the Entomological Society of British Columbia*, **115**: 44–85.
- Smith, I.P. 1991. *Anthidium manicatum* (Hymenoptera: Megachilidae): an interesting new Canadian record. *Proceedings of the Entomological Society of Ontario*, **122**: 105–108.
- Snelling, R.R. 1970. Studies on North American bees of the genus *Hylaeus*. 5. The subgenera *Hylaeus*, s. str. and *Paraprosopis* (Hymenoptera: Colletidae). *Los Angeles County Museum Contributions in Science*, **180**: 1–59.
- Stephen, W.P. 1954. A revision of the bee genus *Colletes* in America North of Mexico. *The University of Kansas Science Bulletin*, **36**: 149–527.
- Strange, J.P., Koch, J.B., Gonzalez, V.H., Nemelka, L., and Griswold, T. 2011. Global invasion by *Anthidium manicatum* (Linnaeus) (Hymenoptera: Megachilidae): Assessing potential distribution in North America and beyond. *Biological Invasions*, **13**: 2115–2133. <http://doi.org/10.1007/s10530-011-0030-y>.
- Wright, K.W., Miller, K.B., and Song, H. 2020. A molecular phylogeny of the long-horned bees in the genus *Melissodes* Latreille (Hymenoptera: Apidae: Eucerinae). *Insect Systematics & Evolution*, **52**: 428–443. <http://doi.org/10.1163/1876312X-bja10015>.
- Wrigley, R.E., Westwood, R., Murray, C., Olynyk, M., and de March, L. 2021. Arthropod survey at Fort Ellice, Manitoba. *Newsletter of the Biological Survey of Canada*, **40**: 18–25.