

Table 3: Lepidoptera Strays And Ephemeral Migrants Recorded From Outagamie County, WI, And Adjacent Areas In 2022

No.	Date	County	Study Site	Locality	Survey Station	Exact/ Vicinity	Latitude ° N	Longitude ° W	Habitat
GEOMETRIDAE									
<i>Macaria aequiferaria</i> (6335)									
1	28 August 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	18 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Sheet	Exact	44.27166	88.41666	Suburban Yard
<i>Coryphista meadii</i> (7290)									
1	9 July 2022	Outagamie	Appleton	719 West Summer Street	on vegetation	Vicinity	44.2717	88.4166	Suburban Yard
1	18 July 2022	Outagamie	Appleton	719 West Summer Street	on vegetation	Vicinity	44.2717	88.4166	Suburban Yard
1	21 Aug. 2022	Outagamie	Fox Cities Paper Trail	Fox Cities Paper Trail by Fox Vally Tech.	UV Trap 1	Exact	44.28647	88.46333	mesic prairie planting and field
1	9 Sept. 2022	Outagamie	Fallen Timbers Env. Center	Goldenrod Lane up to shelter	Bait Trail	Vicinity	44.481	88.405	Hydric hardwood forest/meadow/prairie planting
1	24 Sept. 2022	Outagamie	Fox River Walk	Fox River Walk near Riverside Cemetary	UV Trap 1	Exact	44.26725	88.38157	Mesic to hydric hardwood forest along Fox River
1	1 Oct. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
1	11 Oct. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
1	21 Oct. 2022	Outagamie	Prairie Hill Park	Loop around hill, long trail starting at pond	Bait Trail	Vicinity	44.2926	88.4643	Prairie planting, field, grassy to shrubby wetland, hardwoods
1	22 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken grassland, hydric hardwoods
<i>Disclisoprocta stellata</i> (7417)									
1	19 September 2022	Outagamie	Appleton	719 West Summer Street	netted at night	Vicinity	44.2717	88.4166	Suburban Yard
SPHINGIDAE									
<i>Dolba hylaeus</i> (7784)									
1	10 July 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K, nectaring on <i>Aesclepius</i> Trail 1		End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken grassland, hydric hardwoods
<i>Coratomia amyntor</i> (7786)									
1	22 July 2022	Outagamie	Mosquito Hill Nature Center	Dry-mesic-wet prairie between hill and floodplain	MV Sheet 23	Exact	44.37846	88.70236	Dry-mesic-wet prairie/band of hardwoods
<i>Sphinx eremitus</i> (7796)									
1	22 July 2022	Outagamie	Mosquito Hill Nature Center	Dry-mesic-wet prairie between hill and floodplain	MV Sheet 23	Exact	44.37846	88.70236	Dry-mesic-wet prairie/band of hardwoods
1	2 Aug. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage	MV Sheet 6	Exact	44.64787	88.54208	oak-pine uplands/shrubby savanna near sedge meadow w. bog elements
<i>Sphinx chersis</i> (7802)									
1	22 July 2022	Outagamie	Mosquito Hill Nature Center	Dry-mesic-wet prairie between hill and floodplain	MV Sheet 23	Exact	44.37846	88.70236	Dry-mesic-wet prairie/band of hardwoods
<i>Eumorphia pandorus</i> (7859)									
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Trap 15	Exact	44.65608	88.57867	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Hyles gallii</i> (7893)									
1	21 June 2022	Outagamie	Fallen Timbers Env. Center	White Cedar/White Pine/Hardwood Swamp	vegetation by UV trap	Vicinity	44.48909	88.40363	White Cedar/White Pine/Hardwood Swamp
1	23 June 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Trap 15	Exact	44.65608	88.57867	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
1	14 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
<i>Hyles lineata</i> (7894)									
1	14 June 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	23 June 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Trap 15	Exact	44.65608	88.57867	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
1	9 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	13 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	21 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	13 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Sheet back yard	Exact	44.27166	88.41666	Suburban Yard
1	14 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Sheet back yard	Exact	44.27166	88.41666	Suburban Yard
1	16 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along s edge of prairie west of shelter, by ironweed	UV Trap 26	Exact	44.37867	88.70592	Mesic-wet prairie planting/floodplain forest edge
1	16 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Butterfly Garden, nectaring on Phlox	Butterfly Garden	Exact			Butterfly garden with Phlox in bloom
1	19 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Sheet back yard	Exact	44.27166	88.41666	Suburban Yard
1	19 Sept. 2022	Outagamie	Power Line Cut	NW Corner of N Bluemound Drive X Hwy 96:	UV Trap 3	Exact	44.27359	88.45856	Prairie planting in power line cut & slope along highway/field/hardwoods/shrubs
1	11 Oct. 2022	Outagamie	Mosquito Hill Nature Center	Prairie planting trail near building, by Apocynum	MV Trap 24	Exact	44.37935	88.70632	Mesic prairie planting with Apocynum, indian plantain, rosinweed
NOCTUIDAE									
<i>Zanlognatha pedipalis</i> complex species B (8348b)									
4	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S side prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
<i>Zanlognatha cruralis</i> complex species B (8351b)									
1	23 August	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
1	16 Sept.	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
<i>Tetanolita mynesalis</i> (8366)									
1	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
<i>Renia discoloralis</i> (8381)									
1	22 July 2022	Outagamie	Mosquito Hill Nature Center	Dry-mesic-wet prairie between hill and floodplain	MV Sheet 23	Exact	44.37846	88.70236	Dry-mesic-wet prairie/band of hardwoods
12	2 Aug. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking almost to board	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
8	5 Aug. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Trail west of Highway K	UV Trap 13	Exact	44.6576	88.58332	hardwood swamp with sedges and ferns

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<i>Renia adspersgillus</i> (8386)									
2	10 July 2022	Shawano	Navarino Wildlife Area	Trail west of Highway K	UV Trap 13	Exact	44.6576	88.58332	hardwood swamp with sedges and ferns
1	22 July 2022	Outagamie	Mosquito Hill Nature Center	Dry-mesic-wet prairie between hill and floodplain	MV Sheet 23	Exact	44.37846	88.70236	Dry-mesic-wet prairie/band of hardwoods
<i>Mycterophera inexplicata</i> (8413)									
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Trap 15	Exact	44.65608	88.57867	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Hypena minualis</i> (8457)									
1	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
<i>Hypena humuli</i> (8461)									
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S side prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Trail along south side of Hill	Bait Trail S side Hill	Vicinity	44.3793	88.7033	Mesic hardwood forest with aspen and hickories
1	30 Aug. 2022	Outagamie	Appleton	719 West Summer Street	Bait Trap	Vicinity	44.2717	88.4166	Suburban Yard
3	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S side prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
8	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along the south side of the hill	Bait Trail: S side hill	Vicinity	44.379	88.703	Southern mesic hardwood forest
1	7 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	8 Sept. 2022	Outagamie	Appleton	719 West Summer Street	Baited Towel	Vicinity	44.2717	88.4166	Suburban Yard
1	9 Sept. 2022	Outagamie	Fallen Timbers Env. Center	Goldenrod Lane up to shelter	Bait Trail	Vicinity	44.481	88.405	Hydic hardwood forest/meadow/prairie planting
1	24 Oct. 2022	Outagamie	Appleton	719 West Summer Street	Baited Towel	Vicinity	44.2717	88.4166	Suburban Yard
<i>Hypocala andremona</i> (8642)									
1	23 Oct. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Bait Trail: sand barrens	Vicinity	44.6559	88.5784	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Anomis illita</i> (8551)									
1	24 Oct. 2022	Outagamie	Appleton	719 West Summer Street	Baited Towel	Vicinity	44.2717	88.4166	Suburban Yard
3	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
<i>Anticarsia gemmatalis</i> (8574)									
1	23 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
1	23 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
<i>Melipotis jucunda</i> (8607)									
1	8 Sept. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Bait Trail sand barrens	Vicinity	44.6559	88.5783	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Mocis latipes</i> (8743)									
2	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
1	24 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
<i>Catocala patrix</i> (8771)									
1	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S side prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
<i>Garella nilotica</i> (8771)									
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Paved trail next to shelter in prairie planting	MV Sheet 10	Exact	44.37886	88.70471	Mesic-wet prairie planting/floodplain forest edge
1	27 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	28 Aug. 2022	Shawano	Navarino Wildlife Area	Trail west of Highway K	UV Trap 13	Exact	44.6576	88.58332	hardwood swamp with sedges and ferns
1	9 Sept. 2022	Outagamie	Fallen Timbers Env. Center	Start of Deep Forest Trail	UV Trap 21	Exact	44.47773	88.40607	Hydic hardwood forest with rich understorey
1	17 Sept. 2022	Winnebago	Wiwowash Trail	Winnebago County Rec. Trail just south of County Line	UV Trap 1	Exact	44.23431	88.62284	Sedge Meadow/Shrubby Wetland
1	11 Oct. 2022	Outagamie	Mosquito Hill Nature Center	Prairie planting trail near building, by Apocynum	MV Trap 24	Exact	44.37935	88.70632	Mesic prairie planting with Apocynum, indian plantain, rosinweed
<i>Amyna stricta</i> (9070)									
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
<i>Oruza albocostaliata</i> (9025)									
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Trap 15	Exact	44.65608	88.57867	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Perigea xanthioides</i> (9689)									
1	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S side prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
<i>Condica sutor</i> (9699)									
3	3 Nov. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
2	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
2	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail W of McDonald Road S of Pikes Peak Flowage	Bait Trail 4	Vicinity	44.64792	88.5469	Mesic hardwood-pine forest near sedge meadow/marsh
1	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Trail 3 on twig	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
<i>Trichoplusia ni</i> (8887)									
1	31 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Front Porch	Exact	44.2719	88.41656	Suburban Yard
1	21 Oct. 2022	Outagamie	Prairie Hill Park	Fields & prairie planting with New England Aster	Diurnal	Vicinity	44.2926	88.4643	Prairie planting/fields with New England Aster
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-seric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods

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No.	Date	County	Study Site	Locality	Survey Station	Exact/Vicinity	Latitude ° N	Longitude ° W	Habitat
<i>Pseudoplusia includens</i> (8890)									
1	16 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along s edge of prairie west of shelter, by ironweed	UV Trap 26	Exact	44.37867	88.70592	Mesic-wet prairie planting/floodplain forest edge
2	16 Sept. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
1	20 Sept. 2022	Shawano	Navarino Wildlife Area	Sandy road east of Highway	Bait Trail 1	End	44.6576	88.58332	mesic-xeric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
1	20 Sept. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Bait Trail:sand barrens	Vicinity	44.6559	88.5784	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
1	21 Oct. 2022	Outagamie	Prairie Hill Park	Fields & prairie planting with New England Aster	Diurnal	Vicinity	44.2926	88.4643	Prairie planting/fields with New England Aster
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Bait Trail:sand barrens	Vicinity	44.6559	88.5784	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Rachiplusia ou</i> (8895)									
1	20 Sept. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	UV Sheet 22	Exact	44.65792	88.57579	hydric hardwoods, shrubby wetland, sandy braken grassland, royal/interrupted ferns
<i>Megalographa biloba</i> (8907)									
1	1 Nov. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
1	3 Nov. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
<i>Autographa californica</i> (8914)									
1	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
<i>Callopietria floridensis</i> (9630)									
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to first hill	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S side prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
1	8 Sept. 2022	Outagamie	Appleton	719 West Summer Street	Bait Trap	Vicinity	44.2717	88.4166	Suburban Yard
<i>Schinia obscurata</i> (11118)									
1	23 June 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Trap 15	Exact	44.65608	88.57867	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Apamea cristata</i> (9331)									
1	22 June 2022	Shawano	Navarino Wildlife Area	Upland clearing on trail W of Hwy K	UV Sheet 17	Exact	44.65897	88.58372	Oak-pine upland small clearing near mesic-hydric hardwoods
1	21 July 2022	Outagamie	Appleton	719 West Summer Street	Bait Trap	Vicinity	44.2717	88.4166	Suburban Yard
1	22 July 2022	Outagamie	Mosquito Hill Nature Center	Long trail up the hill near the top	UV Trap 28	Vicinity	44.382	88.705	Mesic hardwood forest/sandstone bluff
<i>Magasa divaricata</i> (9637)									
1	20 Sept. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	UV Sheet 22	Exact	44.65792	88.57579	hydric hardwoods, shrubby wetland, sandy braken grassland, royal/interrupted ferns
1	1 Oct. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
1	5 Oct. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
12	11 Oct. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
1	21 Oct. 2022	Outagamie	Prairie Hill Park	Loop around hill, long trail starting at pond	Bait Trail	Vicinity	44.2926	88.4643	Prairie planting, field, grassy to shrubby wetland, hardwoods
3	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Bait Trail:sand barrens	Vicinity	44.6559	88.5784	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
8	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
1	24 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
1	3 Nov. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	UV Trap 24	Exact	44.65792	88.57645	hydric hardwoods, shrubby wetland, sandy braken grassland, royal/interrupted ferns
2	3 Nov. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
4	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
1	9 Nov. 2022	Shawano	Navarino Wildlife Area	Second bog along trail N of Navarino Nature Center	Bait Trail: bog	Vicinity	44.6426	88.5213	Bog with white pine, tamarack, bog birch, abundant leatherleaf
2	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail W of McDonald Road S of Pikes Peak Flowage	Bait Trail 4	Vicinity	44.64792	88.5469	Mesic hardwood-pine forest near sedge meadow/marsh
<i>Elaphria versicolor</i> (9678)									
1	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail W of McDonald Road S of Pikes Peak Flowage	Bait Trail 4	Vicinity	44.64792	88.5469	Mesic hardwood-pine forest near sedge meadow/marsh
<i>Elaphria chalconia</i> (9679)									
1	23 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
1	23 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
<i>Elaphria grata</i> (9684)									
2	22 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Bait Trail:sand barrens	Vicinity	44.6559	88.5784	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
2	9 Nov. 2022	Shawano	Navarino Wildlife Area	Trail E of McDonald Road S of Pikes Peak Flowage, parking lot to board walk	Bait Trail 3	Vicinity	44.6478	88.5437	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
1	10 Nov. 2022	Shawano	Navarino Wildlife Area	Trail W of McDonald Road S of Pikes Peak Flowage	Bait Trail 4	Vicinity	44.64792	88.5469	Mesic hardwood-pine forest near sedge meadow/marsh
<i>Sericaglaea signata</i> (9941)									
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken geassland, hydric hardwoods
<i>Dargida procinctus</i> (10428)									
1	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S and east sides of the prairie planting	Bait Trail S side prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain forest edge
1	8 Sept. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Bait Trail sand barrens	Vicinity	44.6559	88.5783	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
<i>Anicla infecta</i> (10911)									
1	26 Aug. 2022	Outagamie	Appleton	719 West Summer Street	Bait Trap	Vicinity	44.2717	88.4166	Suburban Yard

Table 3: Lepidoptera Strays And Ephemeral Migrants Recorded From Outagamie County, WI, And Adjacent Areas In 2022									
No.	Date	County	Study Site	Locality	Survey Station	Exact/Vicinity	Latitude ° N	Longitude ° W	Habitat
Diarsia esurialis (10920)									
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Forest on top of hill	UV Trap 9	Exact	44.3807	88.70355	Mesic hardwood forest with dense may apple in understory
HESPERIIDAE									
Hylephila phyleus (4013)									
4	30 Sept. 2022	Outagamie	Prairie Hill Park	Fields & prairie planting; 3 on New England Aster	Diurnal	Vicinity	44.2926	88.4643	Prairie planting/fields with New England Aster
1	10 Oct. 2022	Outagamie	Prairie Hill Park	Fields & prairie planting	Diurnal	Vicinity	44.2926	88.4643	Prairie planting/fields with New England Aster
1	21 Oct. 2022	Outagamie	Prairie Hill Park	Fields & prairie planting	Diurnal	Vicinity	44.2926	88.4643	Prairie planting/fields with New England Aster
LYCAENIDAE									
Hemiargus isola (4360)									
1	8 Sept. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Diurnal:sand barrens	Vicinity	44.6559	88.5783	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
NYMPHALIDAE									
Junonia coenia (4440)									
1	30 July 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	Diurnal:sand barrens	Vicinity	44.6559	88.5783	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
1	30 Sept. 2022	Outagamie	Prairie Hill Park	Fields & prairie planting	Diurnal	Vicinity	44.2926	88.4643	Prairie planting/fields with New England Aster
1	10 Oct. 2022	Outagamie	Prairie Hill Park	Fields & prairie planting	Diurnal	Vicinity	44.2926	88.4643	Prairie planting/fields with New England Aster
TINEIDAE									
Acrolophus popeanella (0373)									
1	21 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
Acrolophus propinqua (0374)									
1	22 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
DEPRESSARIDAE									
Gonioterma mistrella (1032)									
1	31 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Sheet	E	44.27166	88.41656	Suburban Yard
PLUTELLIDAE									
Plutella porrectella (2363)									
1	14 June 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
YPSOLOPHIDAE									
Ypsolopha barberella (2370)									
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Paved trail next to shelter in prairie planting	MV Sheet 10	Exact	44.37886	88.70471	Mesic-wet prairie planting/floodplain forest edge

Table 3: Lepidoptera Strays And Ephemeral Migrants Recorded From Outagamie County, WI, And Adjacent Areas In 2022

No.	Date	County	Study Site	Locality	Survey Station	Exact/Vicinity	Latitude ° N	Longitude ° W	Habitat
PYRALIDAE									
<i>Dicymolomia julianalis</i> (4889) [not all 2022 records have been databased]									
1	22 June 2022	Shawano	Navarino Wildlife Area	Trail west of Highway K	UV Trap 13	Exact	44.6576	88.58332	hardwood swamp with sedges and ferns
1	1 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	8 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	15 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	18 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	21 July 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
4	22 July 2022	Outagamie	Mosquito Hill Nature Center	Dry-mesic-wet prairie between hill and floodplain	MV Sheet 23	Exact	44.37846	88.70236	Dry-mesic-wet prairie/band of hardwoods
2	22 July 2022	Outagamie	Mosquito Hill Nature Center	Long trail up the hill near the top	UV Trap 28	Vicinity	44.382	88.705	Mesic hardwood forest/sandstone bluff
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Trap 15	Exact	44.65608	88.57867	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Trail west of Highway K	UV Trap 13	Exact	44.6576	88.58332	hardwood swamp with sedges and ferns
1	7 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	9 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	10 Aug. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
25	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Paved trail next to shelter in prairie planting	MV Sheet 10	Exact	44.37886	88.70471	Mesic-wet prairie planting/floodplain forest edge
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Forest on top of hill	UV Trap 9	Exact	44.3807	88.70355	Mesic hardwood forest with dense may apple in understory
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Trail along south side of prairie planting	UV Trap 20	Exact	44.37823	88.70248	Mesic-wet prairie planting/floodplain forest edge
1	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Waterthrush Trail	UV Sheet 23	Exact	44.3782	88.70516	Floodplain sedge meadow with buttonbush and wild rice
3	23 Aug. 2022	Outagamie	Mosquito Hill Nature Center	Lights on building and shed	Building Lights	Vicinity	44.3806	88.707	Field/prairie planting/mesic hardwood forest
6	28 Aug. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	MV Sheet 8	Exact	44.65613	88.57876	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
2	28 Aug. 2022	Shawano	Navarino Wildlife Area	Trail west of Highway K	UV Trap 13	Exact	44.6576	88.58332	hardwood swamp with sedges and ferns
3	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Paved trail next to shelter in prairie planting	UV Sheet 10	Exact	44.37886	88.70471	Mesic-wet prairie planting/floodplain forest edge
2	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Start of prairie trail just past building	UV Trap 24	Exact	44.37935	88.70632	Mesic prairie planting with dogbane, indian plainain, & rosinweed
2	1 Sept. 2022	Outagamie	Mosquito Hill Nature Center	Trail along S side of prairie/floodplain edge	UV Trap 25	Exact	44.37837	88.70298	Mesic-wet prairie planting/floodplain forest edge
1	6 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
2	7 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
1	8 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Light front porch	Exact	44.2719	88.4166	Suburban Yard
6	8 Sept. 2022	Shawano	Navarino Wildlife Area	Trail west of Highway K	UV Sheet 13	Exact	44.6576	88.58332	hardwood swamp with sedges and ferns
1	8 Sept. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	UV Trap 19	Exact	44.65772	88.57643	hydric hardwoods, shrubby wetland, sandy braken grassland, royalinterrupted ferns
1	8 Sept. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	nectaring on <i>Solidago</i>	Vicinity	44.657	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken gasland, hydric hardwoods
1	9 Sept. 2022	Outagamie	Fallen Timbers Env. Center	Start of Deep Forest Trail	UV Trap 21	Exact	44.47773	88.40607	Hydric hardwood forest with rich understory
2	17 Sept. 2022	Winnebago	Wiuwash Trail	Winnebago County Rec. Trail just south of County Line	UV Trap 1	Exact	44.23431	88.62284	Sedge Meadow/Shrubby Wetland
<i>Pyrausta pythialis</i> (5035)									
1	10 July 2022	Shawano	Navarino Wildlife Area	Trail S of Pikes Peak Flowage	UV Trap 6		44.64787	88.54208	Oak-pine savanna-forest/mesic pine-hardwoods/sedge meadow w. bog elements
<i>Hymenia perspectalis</i> (5169)									
1	11 Oct. 2022	Outagamie	Mosquito Hill Nature Center	South, east, and north sides of prairie planting	Bait Trail: prairie	Vicinity	44.3786	88.7035	Wet-mesic prairie planting/floodplain & hillside forest edges
1	23 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken gasland, hydric hardwoods
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken gasland, hydric hardwoods
1	24 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
<i>Spoladea recurvalis</i> (5170)									
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken gasland, hydric hardwoods
1	24 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
<i>Diasemioides janassialis</i> (5172)									
1	24 Oct. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	Bait Trail 1	End	44.65713	88.57	mesic-xeric oak-pine-hardwood forest, barrens, bracken gasland, hydric hardwoods
<i>Apogesha stenialis</i> (5177)									
1	5 Aug. 2022	Shawano	Navarino Wildlife Area	Trail south of Navarino Sedge Meadow	UV Trap 20	Exact	44.6777	88.51277	Hydric hardwood forest/sedge meadow
<i>Euchromius ocella</i> (5454)									
1	7 Sept. 2022	Outagamie	Appleton	719 West Summer Street	UV Sheet	E	44.27166	88.41656	Suburban Yard
1	21 Oct. 2022	Outagamie	Fox Cities Paper Trail	Fox Cities Paper Trail by Fox Vally Tech.	UV Trap 1	Exact	44.28647	88.46333	mesic prairie planting and field
1	22 Oct. 2022	Shawano	Navarino Wildlife Area	Sand barrens E of Hwy K	UV Trap 10	Exact	44.65588	88.57835	sandy oak-pine barrens (jack pine, red pine, blackjack oak)
1	23 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
2	24 Oct. 2022	Outagamie	Appleton	719 West Summer Street	MV Trap	E	44.27166	88.41656	Suburban Yard
1	2 Nov. 2022	Shawano	Navarino Wildlife Area	Sandy trail east of Highway K	UV Trap 24	Exact	44.65792	88.57645	hydric hardwoods, shrubby wetland, sandy braken grassland, royalinterrupted ferns