

Benjamin H.G. Acorn, Connor J. Nelson, Scott E. Nielsen, and Carol M. Frost. 2026.

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Supplementary material, Table S1. Total count of individuals for all butterfly species, arranged by distinct combinations of site, transect type, and orientation of the Malaise trap. These counts are pooled across the entire sampling period for each combination. Combinations that did not capture any butterflies are excluded from this table. PERP, trap oriented to catch insects flying perpendicularly to the transect; PAR, trap oriented to catch insects flying along the transect

Site	Transect	Orientation	Species	Number of butterflies collected	Direction	Latitude	Longitude
2	Interior forest	PERP	<i>Callophrys augustinus</i>	6	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Interior forest	PERP	<i>Callophrys polios</i>	1	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Interior forest	PERP	<i>Colias interior</i>	1	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Interior forest	PERP	<i>Glaucopsyche lygdamus</i>	2	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Boloria selene</i>	1	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Callophrys augustinus</i>	5	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Colias interior</i>	14	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Colias philodice</i>	1	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Erynnis persius</i>	2	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Erynnis spp.</i>	1	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Limenitis arthemis</i>	1	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
2	Seismic line	PERP	<i>Oeneis chryxus</i>	2	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W

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Site	Transect	Orientation	Species	Number of butterflies collected	Direction	Latitude	Longitude
2	Seismic line	PERP	<i>Phyciodes cocyta</i>	2	east–west	57° 32′ 11.71″ N	111° 18′ 9.88″ W
4	Interior forest	PERP	<i>Boloria eunomia</i>	1	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
4	Seismic line	PAR	<i>Callophrys polios</i>	1	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
4	Seismic line	PAR	<i>Erynnis persius</i>	1	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
4	Seismic line	PAR	<i>Limenitis arthemis</i>	1	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
4	Seismic line	PERP	<i>Boloria eunomia</i>	4	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
4	Seismic line	PERP	<i>Callophrys augustinus</i>	1	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
4	Seismic line	PERP	<i>Colias interior</i>	1	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
4	Seismic line	PERP	<i>Glaucopsyche lygdamus</i>	5	east–west	57° 32′ 18.64″ N	111° 13′ 16.33″ W
12	Interior forest	PAR	<i>Erynnis persius</i>	1	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Interior forest	PERP	<i>Glaucopsyche lygdamus</i>	6	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PAR	<i>Callophrys augustinus</i>	2	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PAR	<i>Colias interior</i>	1	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PAR	<i>Oeneis chryxus</i>	1	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PERP	<i>Boloria eunomia</i>	2	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PERP	<i>Callophrys augustinus</i>	2	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W

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Site	Transect	Orientation	Species	Number of butterflies collected	Direction	Latitude	Longitude
12	Seismic line	PERP	<i>Callophrys</i> Unknown	3	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PERP	<i>Colias interior</i>	4	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PERP	<i>Erynnis persius</i>	1	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PERP	<i>Glaucopsyche</i> <i>lygdamus</i>	3	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PERP	<i>Phyciodes cocyta</i>	3	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
12	Seismic line	PERP	<i>Plebejus spp.</i>	1	north–south	57° 32′ 8.37″ N	111° 12′ 2.68″ W
15	Interior forest	PAR	<i>Colias interior</i>	1	east–west	57° 32′ 34.34″ N	111° 11′ 17.40″ W
15	Interior forest	PERP	<i>Callophrys</i> <i>augustinus</i>	1	east–west	57° 32′ 34.34″ N	111° 11′ 17.40″ W
15	Seismic line	PERP	<i>Callophrys</i> <i>augustinus</i>	2	east–west	57° 32′ 34.34″ N	111° 11′ 17.40″ W
15	Seismic line	PERP	<i>Callophrys polios</i>	1	east–west	57° 32′ 34.34″ N	111° 11′ 17.40″ W
15	Seismic line	PERP	<i>Erynnis persius</i>	1	east–west	57° 32′ 34.34″ N	111° 11′ 17.40″ W
19	Interior forest	PERP	<i>Phyciodes cocyta</i>	1	north–south	57° 31′ 1.56″ N	111° 12′ 11.84″ W
19	Seismic line	PAR	<i>Callophrys</i> <i>augustinus</i>	1	north–south	57° 31′ 1.56″ N	111° 12′ 11.84″ W
19	Seismic line	PERP	<i>Callophrys</i> <i>augustinus</i>	6	north–south	57° 31′ 1.56″ N	111° 12′ 11.84″ W
19	Seismic line	PERP	<i>Callophrys</i> <i>augustinus</i>	12	north–south	57° 31′ 1.56″ N	111° 12′ 11.84″ W

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Site	Transect	Orientation	Species	Number of butterflies collected	Direction	Latitude	Longitude
19	Seismic line	PERP	<i>Callophrys polios</i>	6	north–south	57° 31' 1.56" N	111° 12' 11.84" W
19	Seismic line	PERP	<i>Colias interior</i>	7	north–south	57° 31' 1.56" N	111° 12' 11.84" W
19	Seismic line	PERP	<i>Erynnis persius</i>	4	north–south	57° 31' 1.56" N	111° 12' 11.84" W
19	Seismic line	PERP	<i>Oeneis chryxus</i>	1	north–south	57° 31' 1.56" N	111° 12' 11.84" W
19	Seismic line	PERP	<i>Phyciodes cocyta</i>	2	north–south	57° 31' 1.56 " N	111° 12' 11.84" W