Table 4: Macrolepidoptera Species of Strays and Ephemeral Migrants Recorded from Different Survey Methods in Suburban Appleton (up to 2020)

		Cumulative % At Bait	Cumulative % At Lights	2016 % At Bait	2017 % At Bait	2018 % At Bait	2019 % At Bait	2020 % At Bait	2016 MV Trap	2017 MV Trap	2018 MV Trap	2019 MV Trap	2020 MV Trap	2016 Bait	2017 Bait	2018 Bait	2019 Bait	2020 Bait	MV Total	UV Total	UV/spotlights	Bait Total	Scale Excretion	2017 Malaise	Nectaring	Reared	Unspecified
		% Species		Percent of Species By Year					Total Species at MV by Year					Total Species at Bait by Year					Cumulative Total Species								
		48%	82%	60%	59%	65%	54%	53%	22	26	29	20	17	16	21	29	15	8	65	27	10	48	1	3	10	3	9
Macrolepidoptera Species		% Individuals		Percent of Individuals By Year					Total Individuals By Year					Total Individuals By Year					Cumulative Total Individuals								
*=This species was not found at bait during the Appleton study, but I have found it at bait during other surveys.																											
8381	*Renia discoloralis*	100%	0%				100%										1					1					
8545	*Anomis erosa*	100%	0%																			1					
8551	*Anomis illita*	100%	0%			100%										1						1					
8600	*Melipotis indomita*	100%	0%			100%										1						1					
8649	*Ascalapha odorata*	100%	0%		100%	100%		100%							3	2		2				9					
8745	*Mocis texana*	100%	0%			100%										1						2					
8792	*Catocala vidua*	100%	0%				100%										1					1					
8793	*Catocala maestosa*	100%	0%																			1					
8794	*Catocala lacrymosa*	100%	0%																			1					
9331	*Apamea cristata*	100%	0%			100%										1						1					
9332	*Apamea vulgaris*	100%	0%			100%										2						2					1
9671	*Spodoptera dolichos*	100%	0%	100%										1								1					
9672	*Spodoptera eridania*	100%	0%	100%										1								3					
9693	*Condica mobilis*	100%	0%		100%										1							1					
10428	*Dargida procinctus*	100%	0%			100%										4						4					
10661	*Agrotis maldefida*	100%	0%			100%										1						1					
10664	*Agrotis subterranea*	100%	0%		100%										3							3					
8351b	*Zanclognatha cruralis* sp. B	100%	0%			100%										1						1					
9699	*Condica sutor***	95%	3%	90%	100%	100%	100%	100%	1					9	5	20	1	3	1			38					
10456	*Leucania adjuta*	89%	11%		89%					1					8				1			8					
8574	*Anticarsia gemmatalis*	86%	14%	86%	80%	100%		100%	1	1				12	4	1		1	2	1		18					
10911	*Anicla infecta*	77%	23%	67%	80%	100%	100%	67%					1	2	4	1	1	2	1	2		10					
9630	*Callopistria floridensis*	76%	24%	0%		80%	100%	0%	1		6		1			24	2		8			26					
9637	*Magusa divaricata*	71%	29%	65%	71%	78%	81%	42%	12	8	12	2	12	22	32	81	30	13	46	27		178					1
8890	*Pseudoplusia includens*	63%	35%	41%	73%	58%	0%	25%	16	24	12		3	11	100	34		2	55	26		147			4		
9679	*Elaphria chalcedonia*	62%	38%	75%	75%	100%	50%		1	1		1		3	3	1	1		3	2		8					
8461	*Hypena humuli*	60%	40%		46%	58%	50%	76%		7	22	4	6		6	34	4	19	39	3		63					10
8889	*Ctenoplusia oxygramma*	56%	37%	50%	63%	60%	0%	0%	2	2	1	1		2	10	3			6	4		15		1	1		
8743	*Mocis latipes*	54%	46%	50%	100%		0%		5			1		5	1				6			7					
7290	*Coryphista meadii*	50%	42%	0%	0%	47%	77%	14%	3	5	16	9	11			25	36	2	44	8		63	7		1		6
8607	*Melipotis jucunda*	50%	50%			50%					1					1			1			1					
8651	*Lesmone detrahens*	50%	50%			50%					1					1			1			1					
8962	*Paectes abrostoloides*	50%	50%			50%					1					1			1			1					
9520	*Achatodes zeae*	50%	50%			100%										1					1	1					

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		Cumulative % At Bait	Cumulative % At Lights	2016 % At Bait	2017 % At Bait	2018 % At Bait	2019 % At Bait	2020 % At Bait	2016 MV Trap	2017 MV Trap	2018 MV Trap	2019 MV Trap	2020 MV Trap	2016 Bait	2017 Bait	2018 Bait	2019 Bait	2020 Bait	MV Total	UV Total	UV/spotlights	Bait Total	Scale Excretion	2017 Malaise	Nectaring	Reared	Unspecified
		% Species		Percent of Species By Year					Total Species at MV by Year					Total Species at Bait by Year					Cumulative Total Species								
		48%	82%	0%	0%	0%	0%	0%	16	21	23	17	14	5	7	29	5	0	49	17	8	12	0	1	6	2	4
Macrolepidoptera Species		% Individuals		Percent of Individuals By Year					Total Individuals By Year					Total Individuals By Year					Cumulative Total Individuals								
10461	*Leucania ursula*	50%	50%			100%										1			1	1		1					
8887	*Trichoplusia ni*	44%	50%	33%	56%	69%	27%	0%	2	3		10	2	2	10	9	6		17	14		27		2	3		11
9070	*Amyna stricta* (formerly *octo*)	43%	57%	25%	67%				3					1	2				3	1		3					
8457	*Hypena minualis*	40%	60%	33%	100%									1	1					3		2					
9246	*Acronicta clarescens*	40%	60%			67%	0%	0%			1	1	1			2			3			2					
8386	*Renia adspergillus*	33%	67%	100%										1						2		1					
8598	*Melipotis fasciolaris*	33%	67%				33%					2					1		2			1					
8914	*Autographa californica*	30%	70%		67%		17%	0%		1		5	1		2		1		7			3					
8895	*Rachiplusia ou*	22%	67%	0%	38%	14%			1	3	5				3	1			9	3		4			1		3
8366	*Tetanolita mynesalis*	20%	80%	20%	0%	0%	100%		3	2	1			1			1		6	1	1	2					
7140	*Cyclophora nanaria*	10%	90%	0%		100%	0%	0%	4			3	2			1			9			1					
8907	*Megalographa biloba*	10%	88%	0%	17%	0%	11%		3	3	3	22			1		3		31	4		4			1		5
8974	*Characoma nilotica*	8%	92%	0%	25%	0%	0%	0%	1	5	6	5	4		2				21	2		2					
6331	*Macaria promiscuata**	0%	100%		0%					1									1								
6332	*Psamatodes abydata**	0%	100%		0%					1									1								
6335	*Macaria aequiferaria**	0%	100%		0%					1									1								
6353	*Macaria multilineata**	0%	100%		0%	0%				1	1								2								
6443	*Glenoides texanaria**	0%	100%			0%					1								1								
6586	*Iridopsis defectaria**	0%	100%																1								
7053	*Dichorda iridaria*	0%	100%																		3						
7094	*Lobocleta ossularia**	0%	100%			0%					1								1								
7771	*Agrius cingulata*	0%	100%					0%					1						1								
7775	*Manduca sexta*	0%	100%																		2						1
7776	*Manduca quinquemaculata*	0%	0%																							2	
7786	*Ceratomia amyntor*	0%	100%																	1							
7802	*Sphinx chersis*	0%	50%																		1					1	
7892	*Hyles euphorbiae*	0%	100%		0%					1									1								
7893	*Hyles gallii*	0%	100%		0%					4									4								
7894	*Hyles lineata*	0%	76%	0%		0%	0%		1		24	6							31	6					12		
8067	*Cisthene plumbea*	0%	100%																	1							
8367	*Tetanolita* species nr. *palligera**	0%	100%																	2							
8371	*Bleptina inferior**	0%	100%					0%					1						1								
8398	*Palthis asopialis**	0%	100%																1								
8411	*Colobochyla interpuncta**	0%	100%																1								

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		Cumulative % At Bait	Cumulative % At Lights	2016 % At Bait	2017 % At Bait	2018 % At Bait	2019 % At Bait	2020 % At Bait	2016 MV Trap	2017 MV Trap	2018 MV Trap	2019 MV Trap	2020 MV Trap	2016 Bait	2017 Bait	2018 Bait	2019 Bait	2020 Bait	MV Total	UV Total	UV/spotlights	Bait Total	Scale Excretion	2017 Malaise	Nectaring	Reared	Unspecified
		% Species		Percent of Species By Year					Total Species at MV by Year					Total Species at Bait by Year					Cumulative Total Species								
		48%	82%	0%	0%	0%	0%	0%	7	8	12	8	6	0	0	29	0	0	23	4	3	0	0	0	1	0	0
Macrolepidoptera Species		% Individuals		Percent of Individuals By Year					Total Individuals By Year					Total Individuals By Year					Cumulative Total Individuals								
8432	*Sigela brauneata**	0%	100%			0%					1								1								
8466	*Tathorhynchus exsiccatus*	0%	100%	0%					2										2								
8467	*Hemeroplanis scopulepes**	0%	100%	0%					1										1								
8522	*Gabara subnivosella*	0%	100%			0%					1								1								
8528	*Hypsoropha hormos**	0%	100%				0%					1							1								
8599	*Melipotis perpendicularis**	0%	100%				0%	0%					1						1	1							
8733	*Caenurgia chloropha**	0%	100%																1								
8884	*Mouralia tinctoides**	0%	100%		0%					1									1								
8885	*Argyrogramma verruca**	0%	100%		0%					1									1								
8886	*Enigmogramma basigera**	0%	100%				0%					1							1								
8959	*Paectes pygmaea**	0%	100%	0%					1										1								
8983.1	*Meganola phylla**	0%	100%			0%					1								1								
8991	*Nola cereella**	0%	100%																1								
9037	*Hyperstrotia pervertens**	0%	100%			0%					1								1								
9044	*Marimatha nigrofimbria**	0%	100%		0%	0%					1								1	1	2						
9069	*Amyna bullula*	0%	100%			0%					1								1								
9085	*Tarachidia semiflava*	0%	100%																		1						
9127	*Sprageia leo*	0%	100%			0%					1								1								
9526	*Bellura densa*	0%	100%					0%					1						1								
9665	*Spodoptera exigua**	0%	100%																	1							
9684	*Elaphria grata**	0%	100%		0%		0%					1							1	2							
9714	*Condica confederata**	0%	100%		0%					1									1								
9766	*Cirrhophanus triangulifer*	0%	100%			0%					1								1								
11117	*Schinia lynx*	0%	100%		0%					1									1								
11141	*Schinia thoreaui*	0%	100%				0%					1							1								
11179	*Schinia tertia*	0%	0%																						1		
8348b	*Zanclognatha pedipilalis* sp. B*	0%	100%			0%					1								1								
9257b	*Acronicta impleta* species 2*	0%	100%																		1						
Percent of Species of Strays and Ephemeral Migrants Found at Bait or Lights																											
Any Individuals		48%	82%	60%	59%	65%	54%	53%																			
50% or More of Individuals Recorded		36%	63%	32%	47%	53%	31%	33%																			
70% or More of Individuals Recorded		24%	53%	24%	35%	42%	31%	27%																			
100% of Individuals Recorded		18%	47%	12%	18%	37%	23%	20%																			