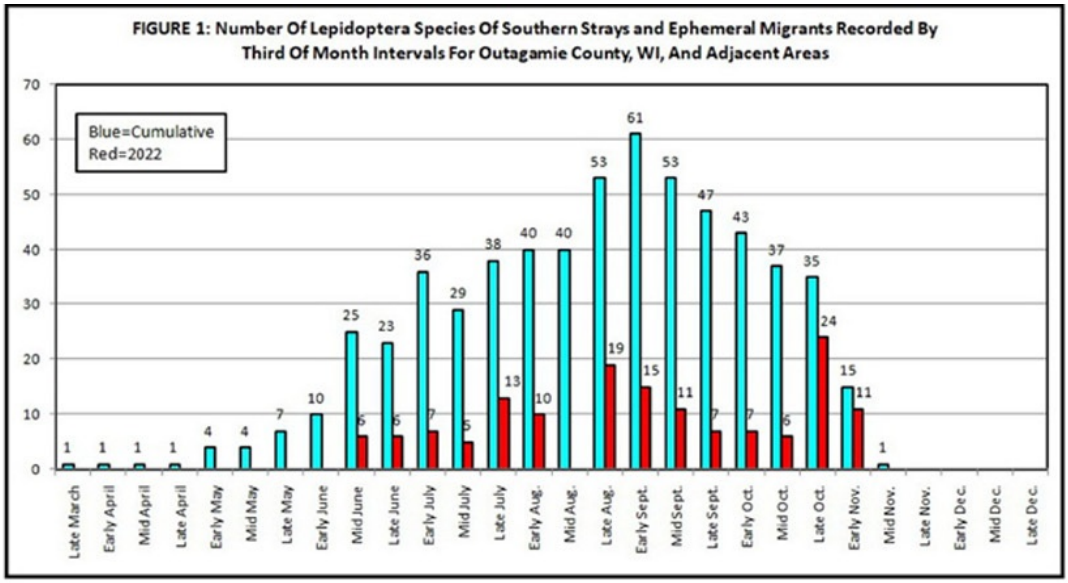
FIGURE 1: Number Of Lepidoptera Species Of Southern Strays and Ephemeral Migrants Recorded By Third Of Month Intervals For Outagamie County, WI, And Adjacent Areas
Blue=Cumulative
Red=2022
Late March
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.
Mid Dec.
Late Dec.

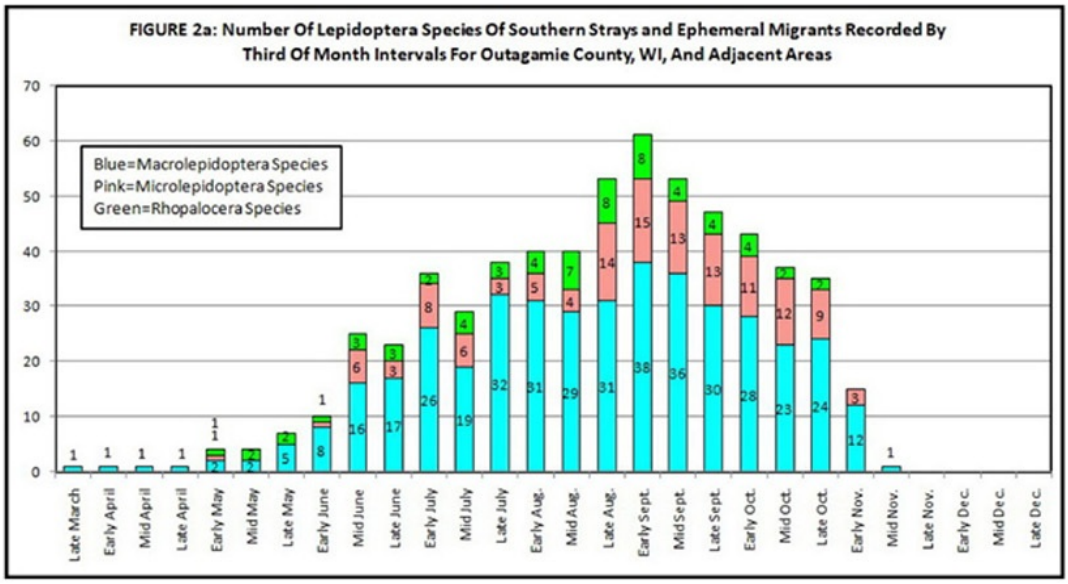
FIGURE 2a: Number Of Lepidoptera Species Of Southern Strays and Ephemeral Migrants Recorded By Third Of Month Intervals For Outagamie County, WI, And Adjacent Areas
Blue=Macrolepidoptera Species
Pink=Microlepidoptera Species
Green=Rhopalocera Species
Late March
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.
Mid Dec.
Late Dec.

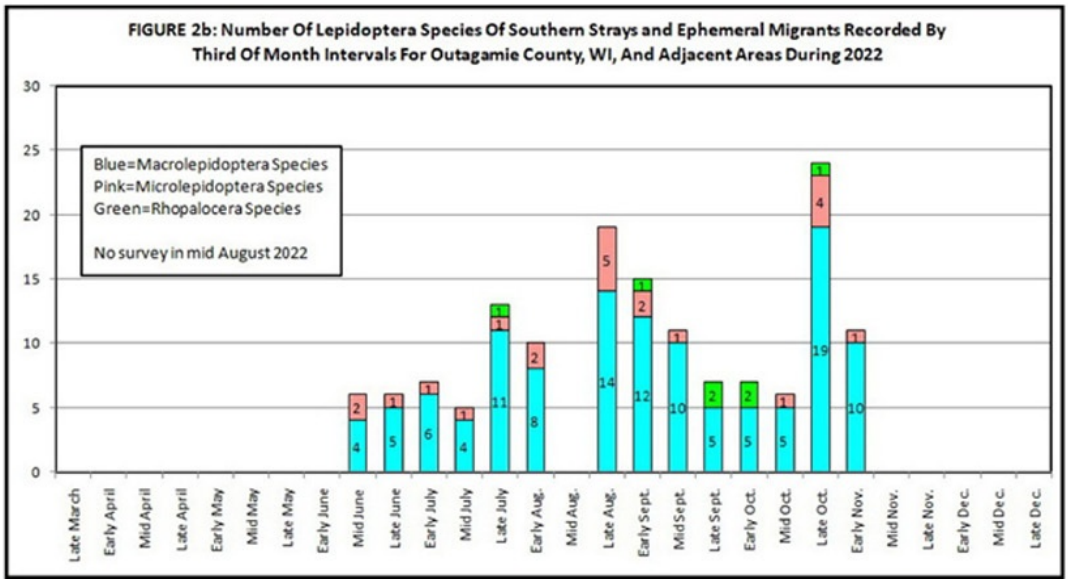
FIGURE 2b: Number Of Lepidoptera Species Of Southern Strays and Ephemeral Migrants Recorded By Third Of Month Intervals For Outagamie County, WI, And Adjacent Areas During 2022
Blue=Macrolepidoptera Species
Pink=Microlepidoptera Species
Green=Rhopalocera Species
No survey in mid August 2022
Late March
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.
Mid Dec.
Late Dec.

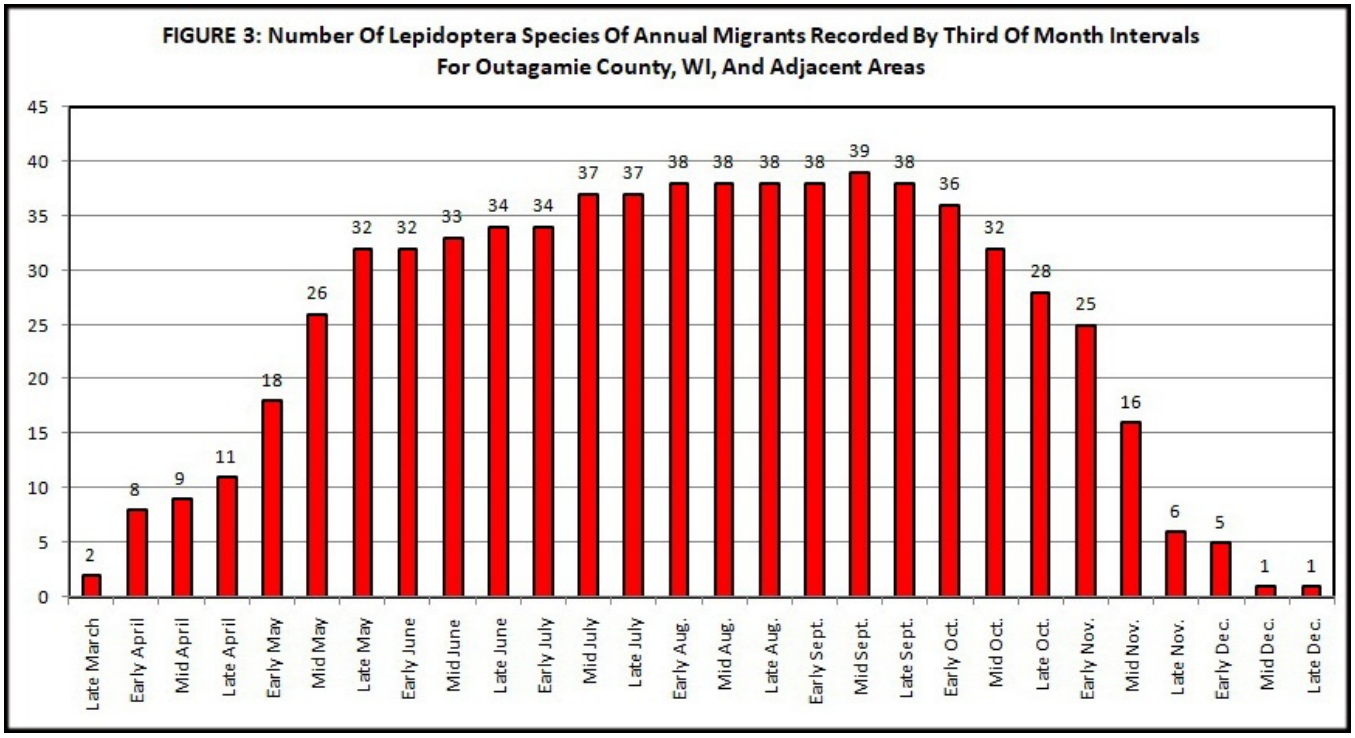
FIGURE 3: Number Of Lepidoptera Species Of Annual Migrants Recorded By Third Of Month Intervals For Outagamie County, WI, And Adjacent Areas
45
40
35
30
25
20
15
10
5
0
2
8
9
11
18
26
32
32
33
34
34
37
37
38
38
38
38
39
38
36
32
28
25
16
6
5
1
1
Late March
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.
Mid Dec.
Late Dec.

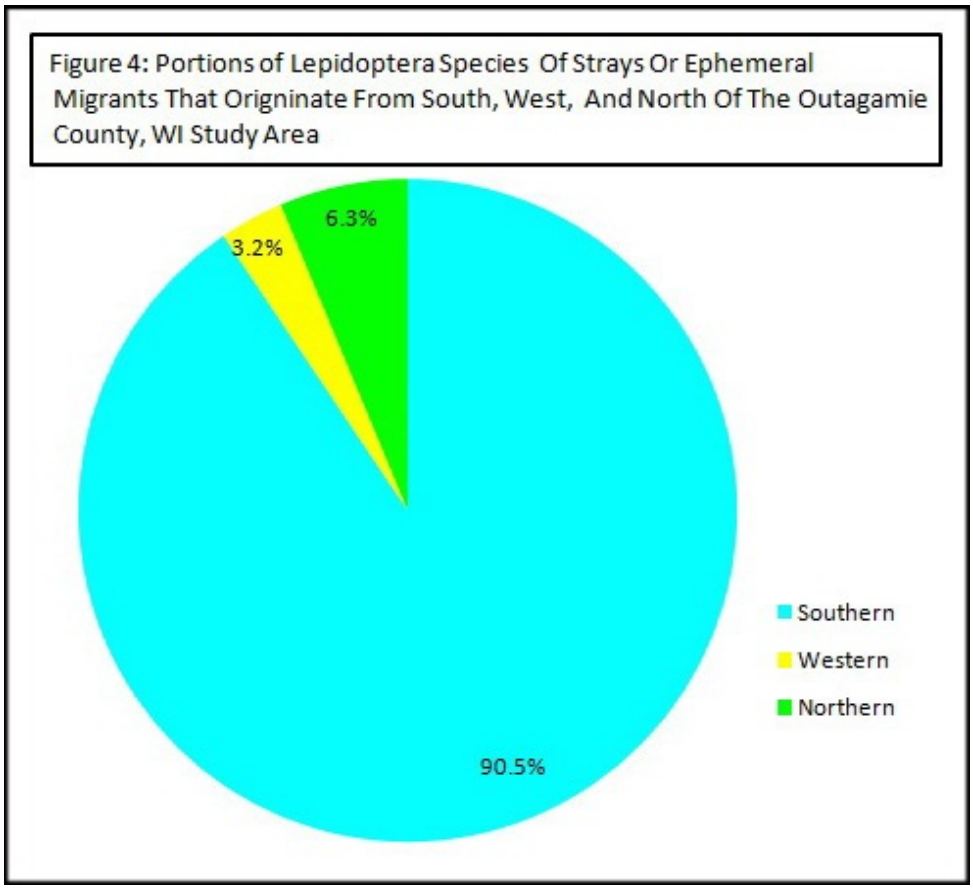
Figure 4: Portions of Lepidoptera Species Of Strays Or Ephemeral Migrants That Origninate From South, West, And North Of The Outagamie County, WI Study Area
6.3%
3.2%
90.5%
Southern
Western
Northern

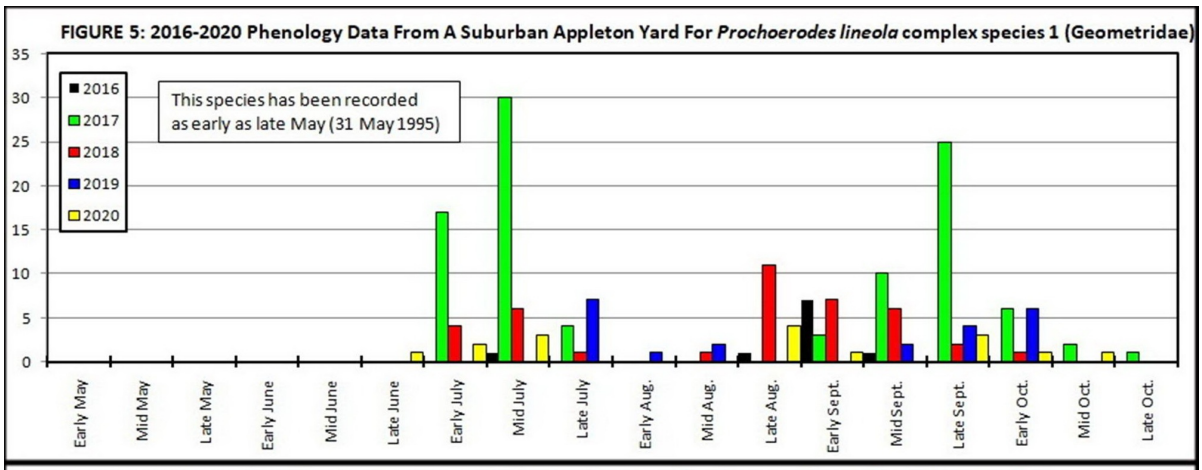
FIGURE 5: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Prochoerodes lineola* complex species 1 (Geometridae)
This species has been recorded as early as late May (31 May 1995)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

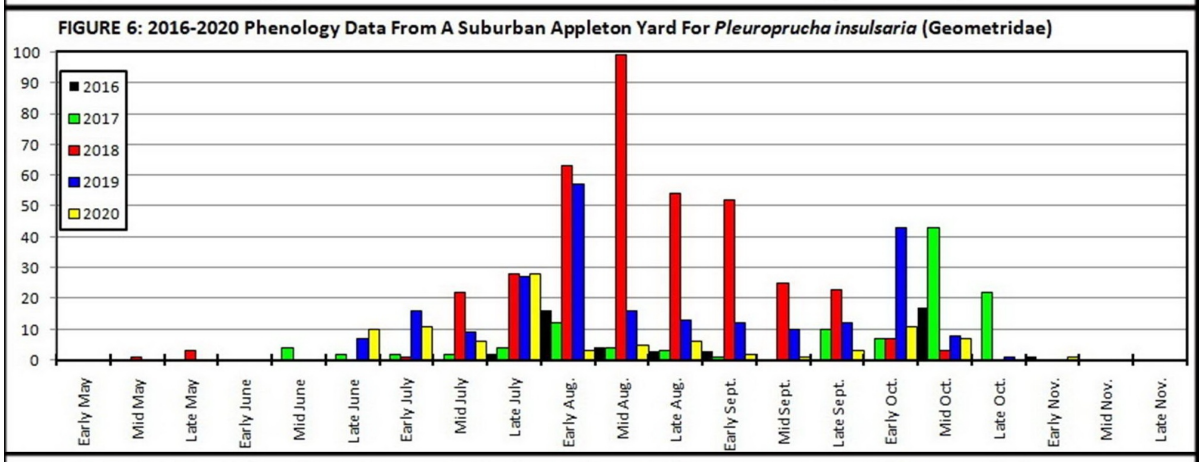
FIGURE 6: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Pleuroprucha insulsaria* (Geometridae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

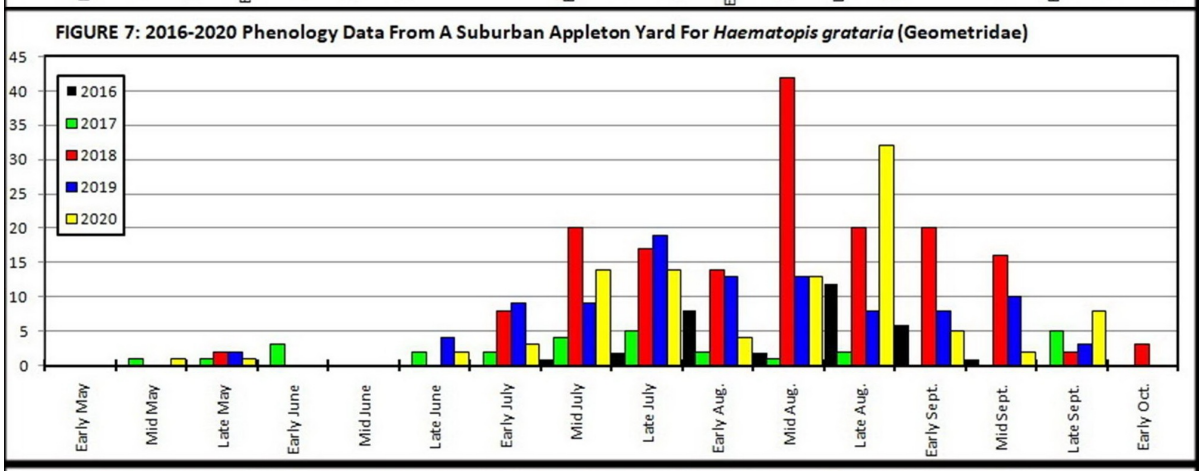
FIGURE 7: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Haematopis grataria* (Geometridae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.

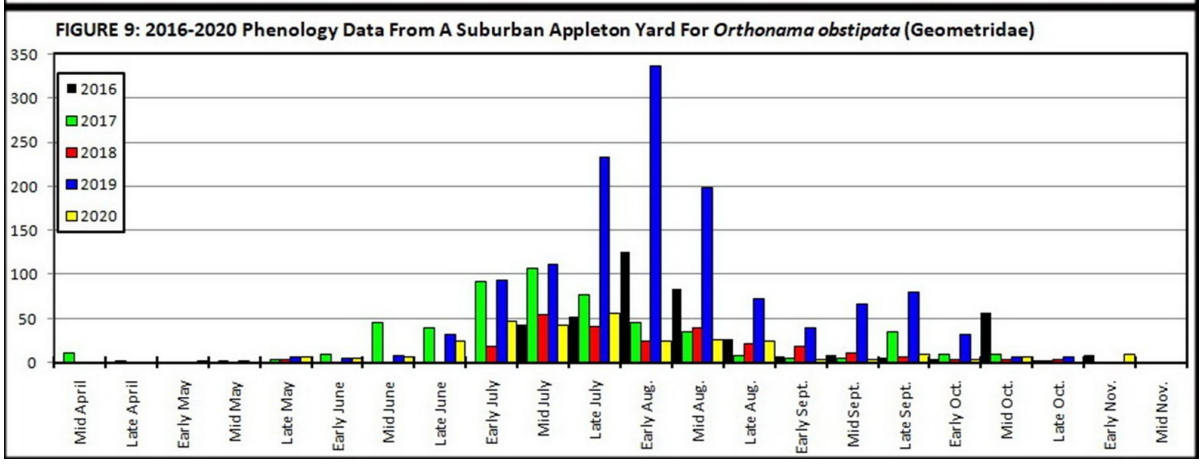
FIGURE 9: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Orthonama obstipata* (Geometridae)
2016
2017
2018
2019
2020
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.

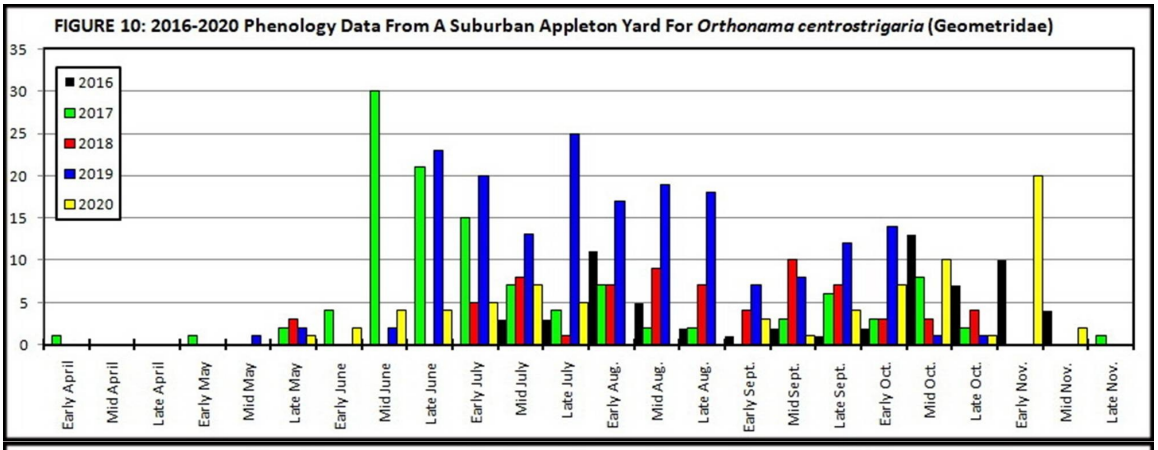
FIGURE 10: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Orthonama centrostrigaria* (Geometridae)
2016
2017
2018
2019
2020
0
5
10
15
20
25
30
35
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

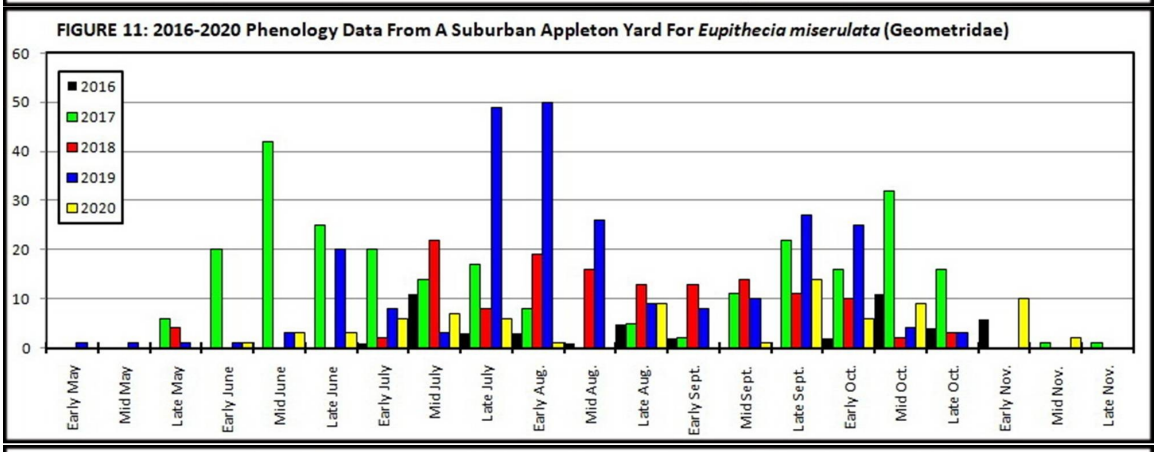
FIGURE 11: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Eupithecia miserulata* (Geometridae)
2016
2017
2018
2019
2020
0
10
20
30
40
50
60
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

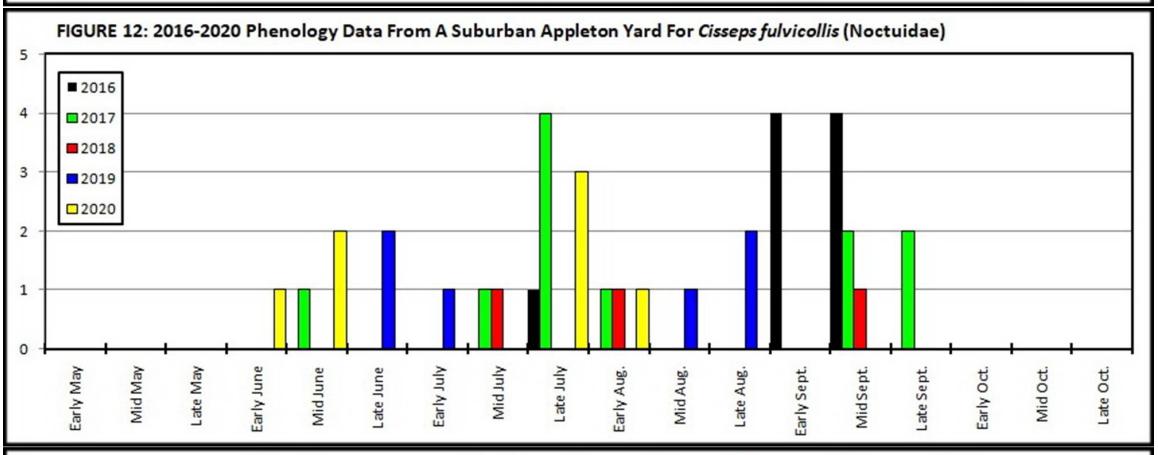
FIGURE 12: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Cisseps fulvicollis* (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
4
5
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

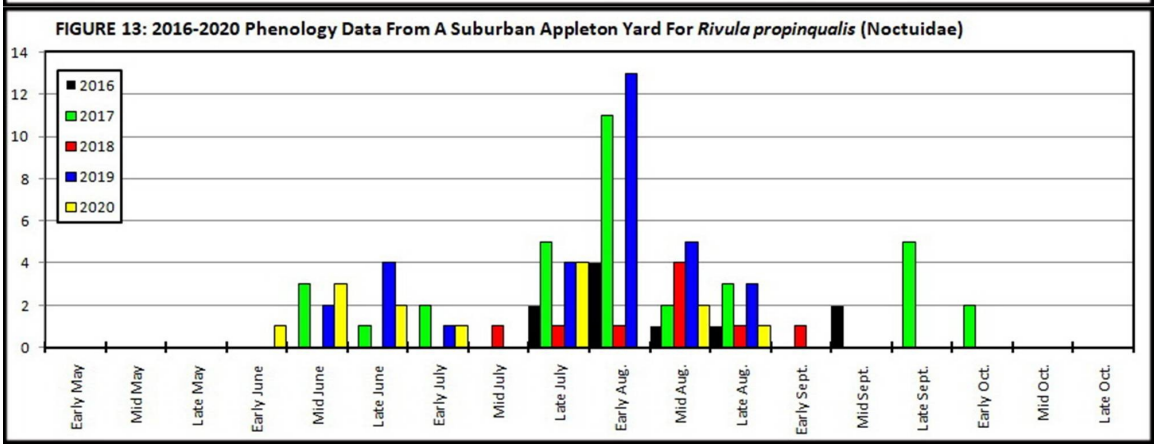
FIGURE 13: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Rivula propinqualis* (Noctuidae)
2016
2017
2018
2019
2020
0
2
4
6
8
10
12
14
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

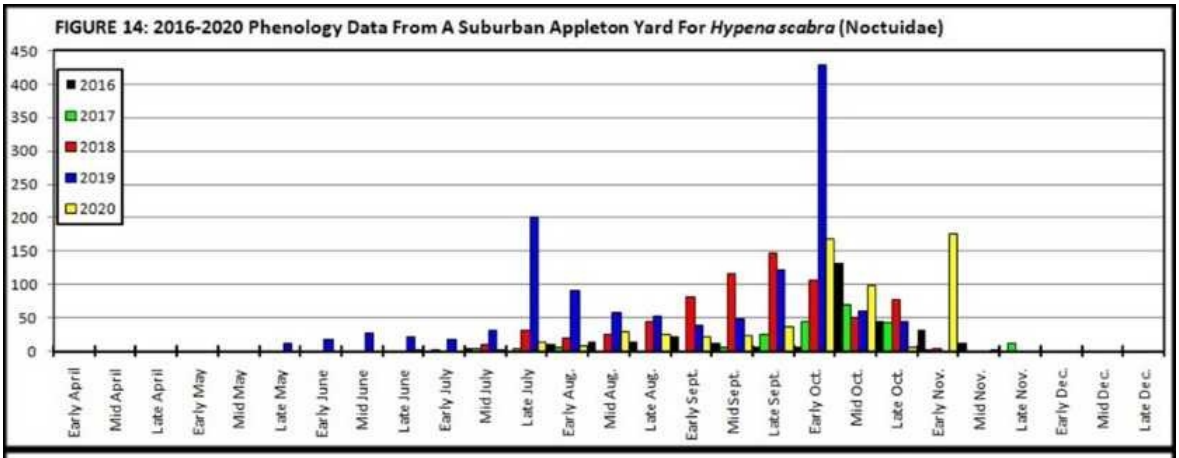
FIGURE 14: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Hypena scabra* (Noctuidae)
2016
2017
2018
2019
2020
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.
Mid Dec.
Late Dec.

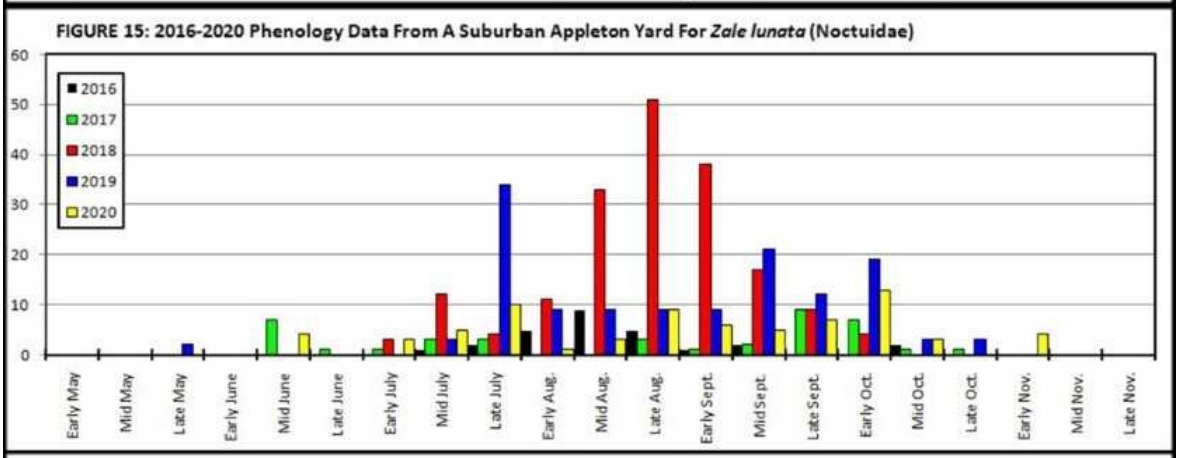
FIGURE 15: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Zale lunata* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

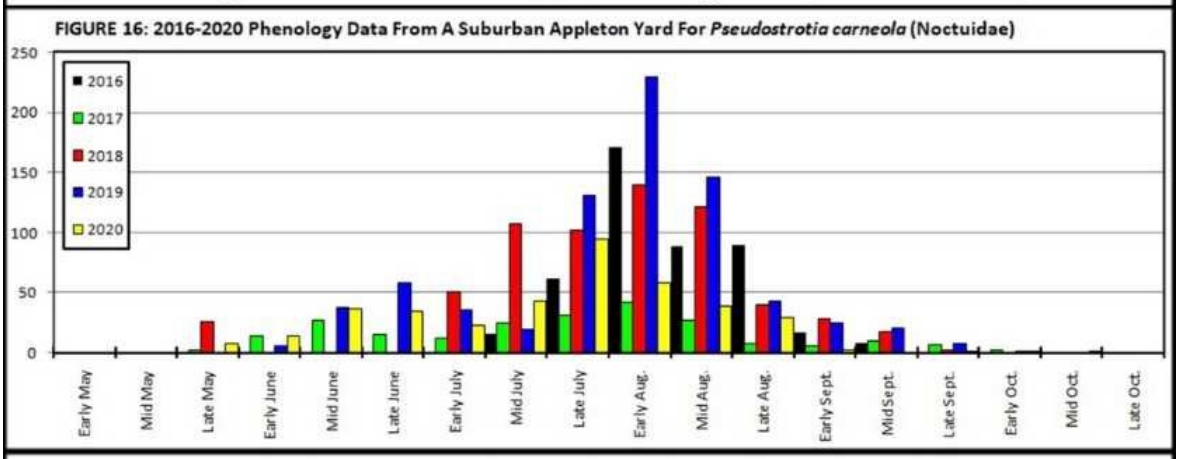
FIGURE 16: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Pseudostrotia carneola* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

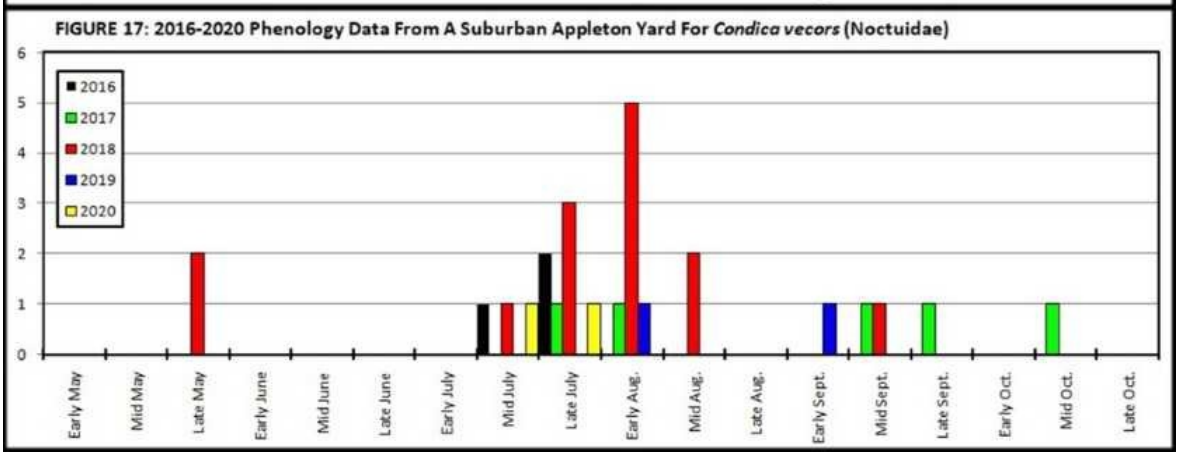
FIGURE 17: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Condica vecors* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

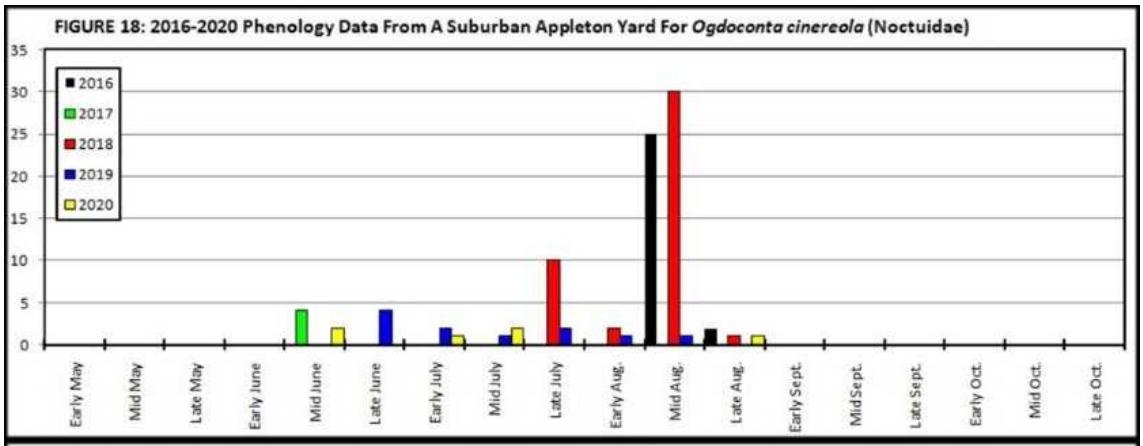

FIGURE 18: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Ogdoconta cinereola* (Noctuidae)

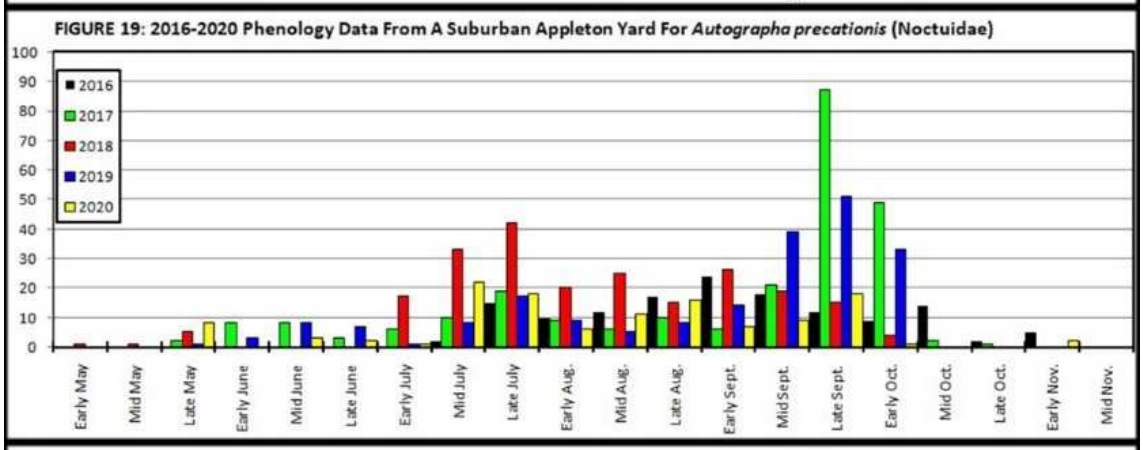

FIGURE 19: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Autographa precationis* (Noctuidae)

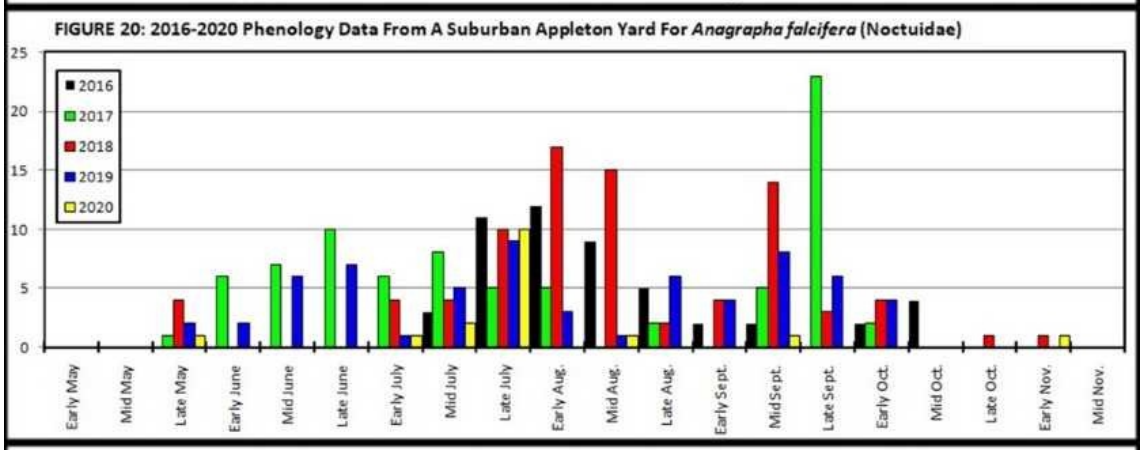

FIGURE 20: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Anagrapha falcifera* (Noctuidae)

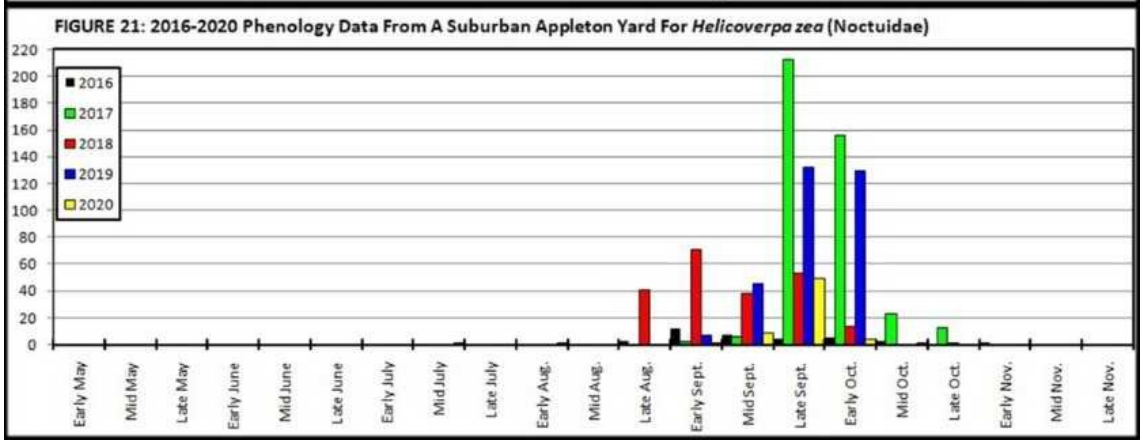

FIGURE 21: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Helicoverpa zea* (Noctuidae)

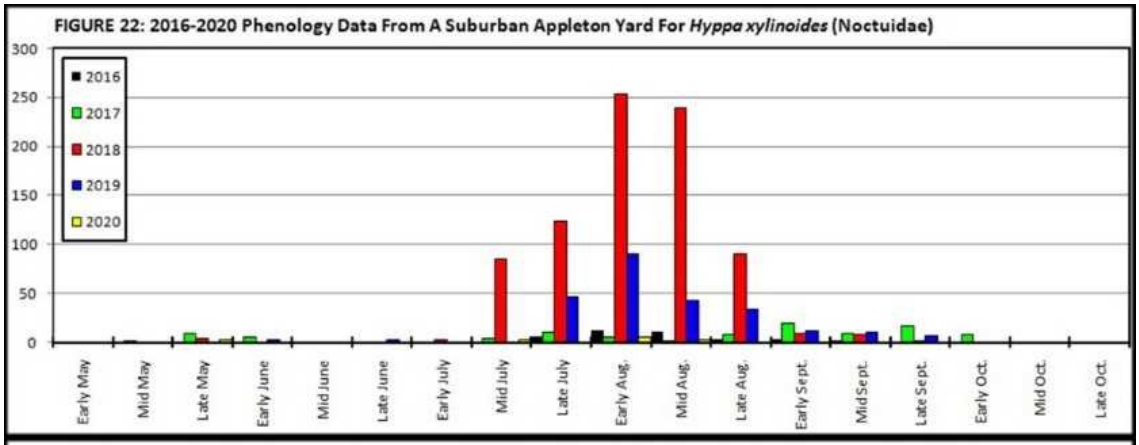
FIGURE 22: 2016-2020 Phenology Data From A Suburban Appleton Yard For Hyppa xylinoides (Noctuidae)
2016
2017
2018
2019
2020
300
250
200
150
100
50
0
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

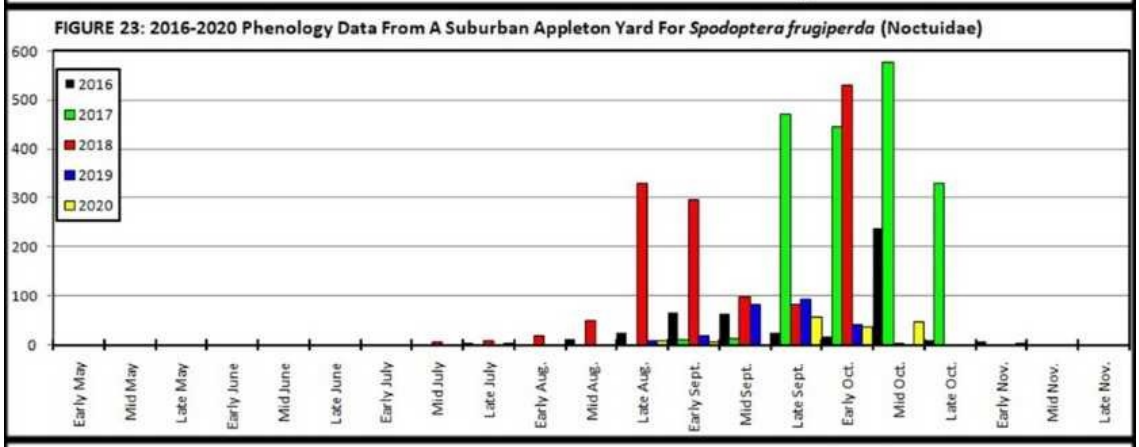
FIGURE 23: 2016-2020 Phenology Data From A Suburban Appleton Yard For Spodoptera frugiperda (Noctuidae)
2016
2017
2018
2019
2020
600
500
400
300
200
100
0
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

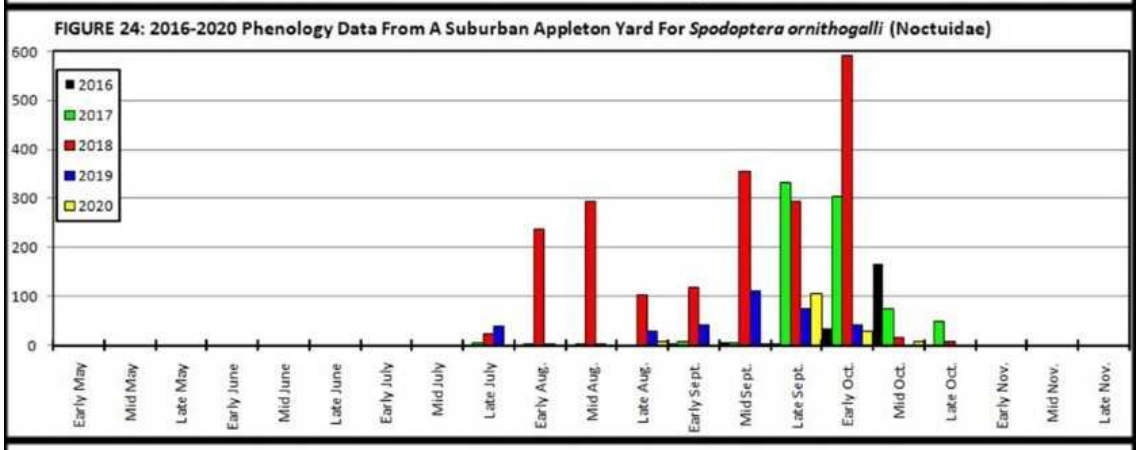
FIGURE 24: 2016-2020 Phenology Data From A Suburban Appleton Yard For Spodoptera ornithogalli (Noctuidae)
2016
2017
2018
2019
2020
600
500
400
300
200
100
0
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

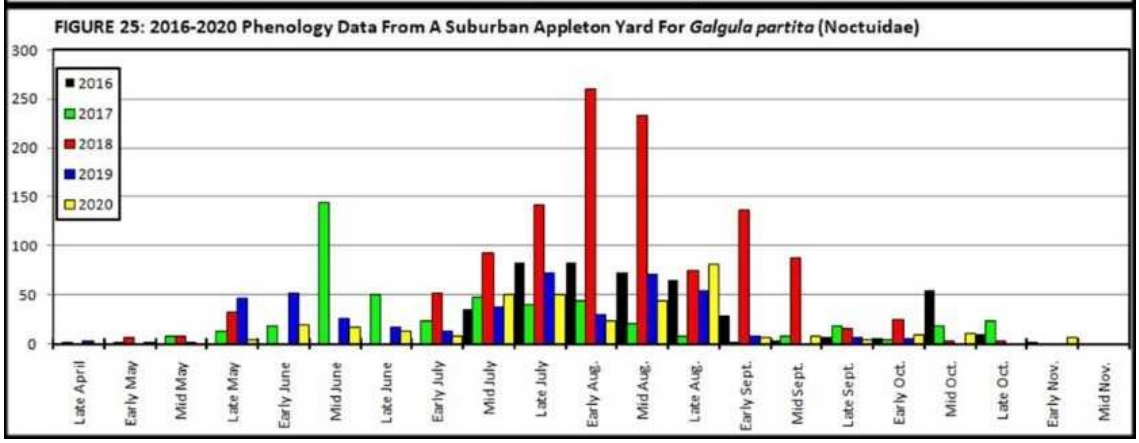
FIGURE 25: 2016-2020 Phenology Data From A Suburban Appleton Yard For Galgula partita (Noctuidae)
2016
2017
2018
2019
2020
300
250
200
150
100
50
0
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.

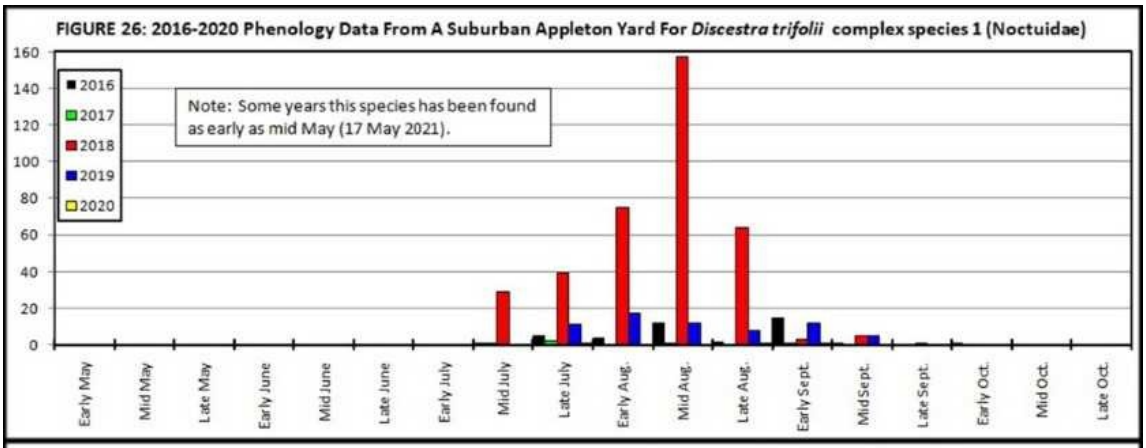
FIGURE 26: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Discestra trifolii* complex species 1 (Noctuidae)
Note: Some years this species has been found as early as mid May (17 May 2021).
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

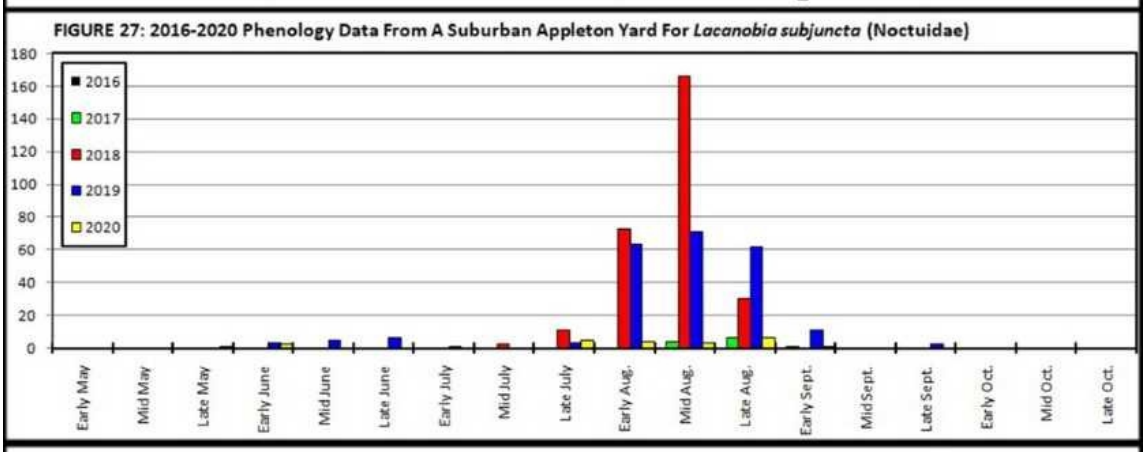
FIGURE 27: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Lacanobia subjuncta* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

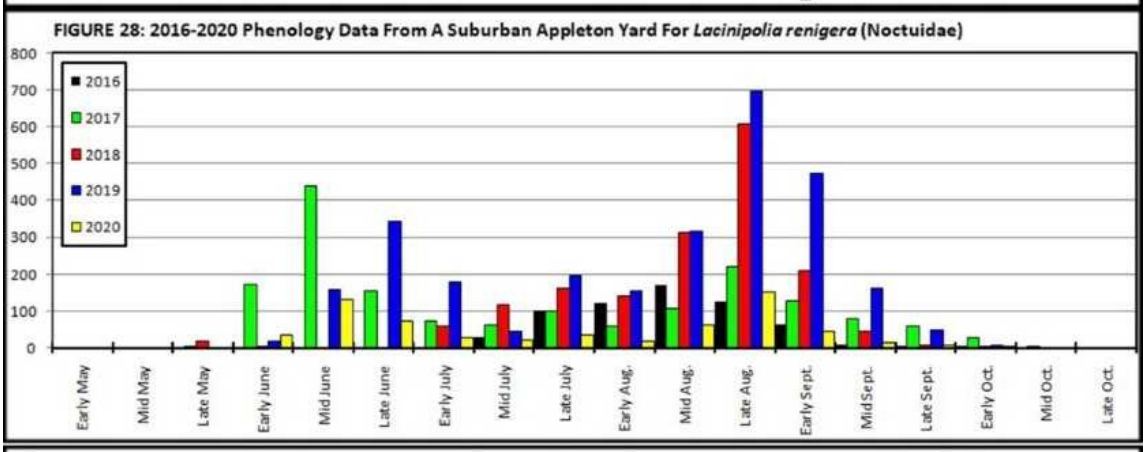
FIGURE 28: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Lacinipolia renigera* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

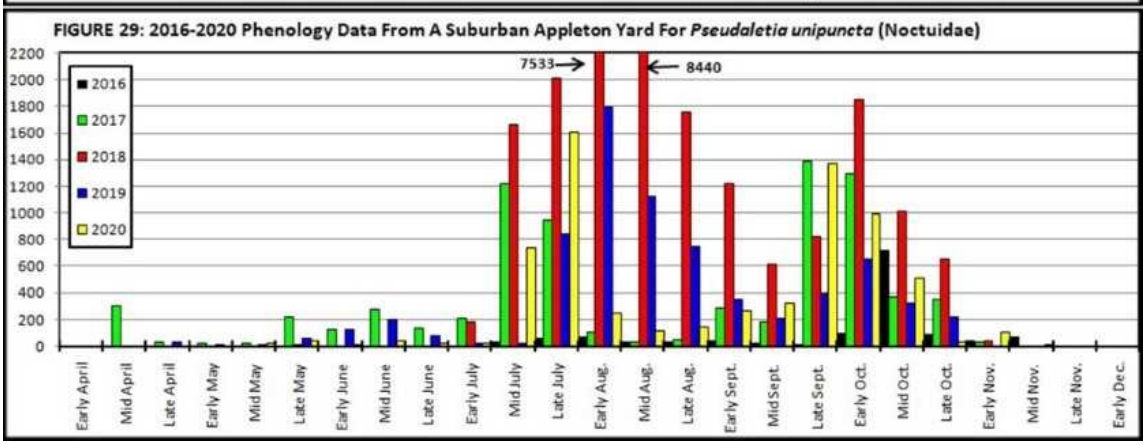
FIGURE 29: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Pseudaletia unipuncta* (Noctuidae)
7533
8440
2016
2017
2018
2019
2020
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.

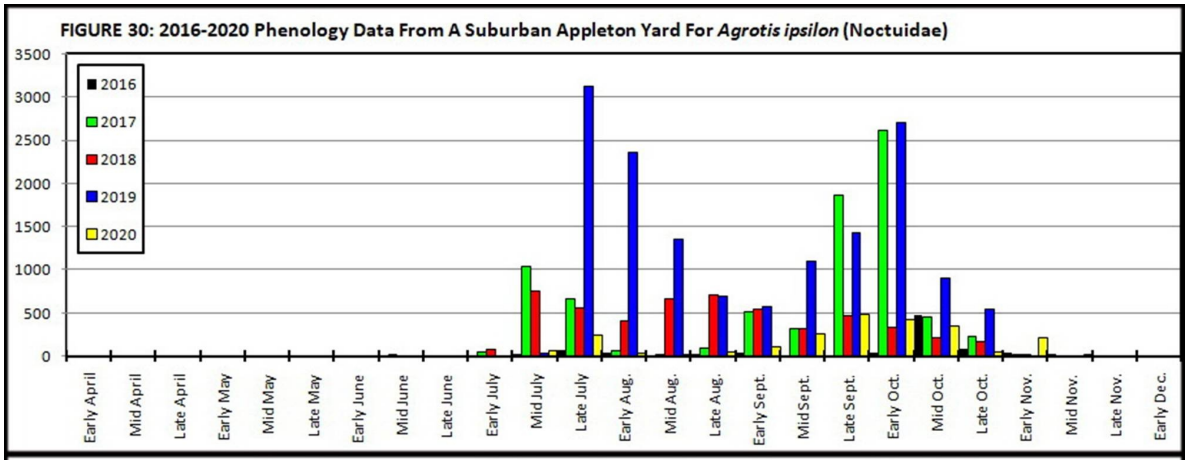
FIGURE 30: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Agrotis ipsilon* (Noctuidae)
2016
2017
2018
2019
2020
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.

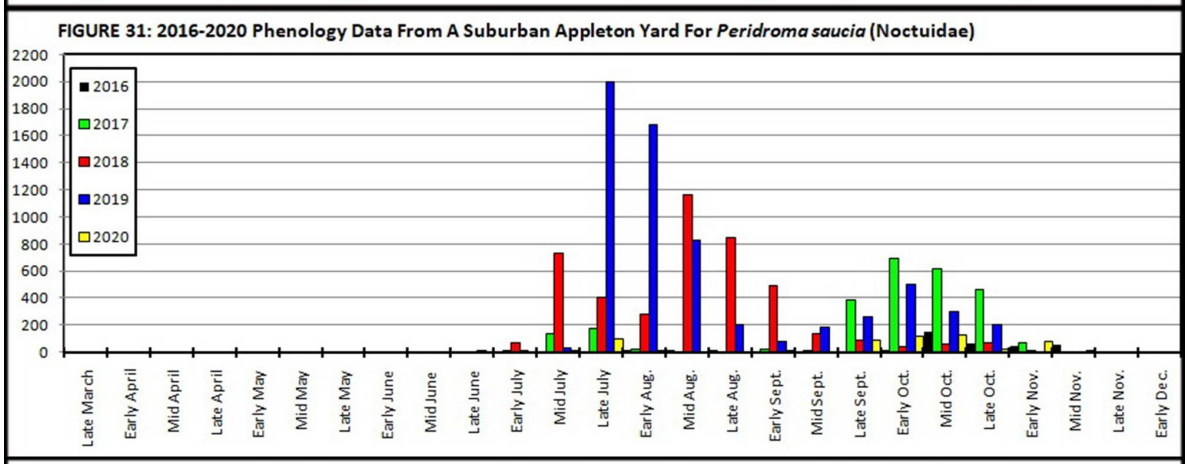
FIGURE 31: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Peridroma saucia* (Noctuidae)
2016
2017
2018
2019
2020
Late March
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.

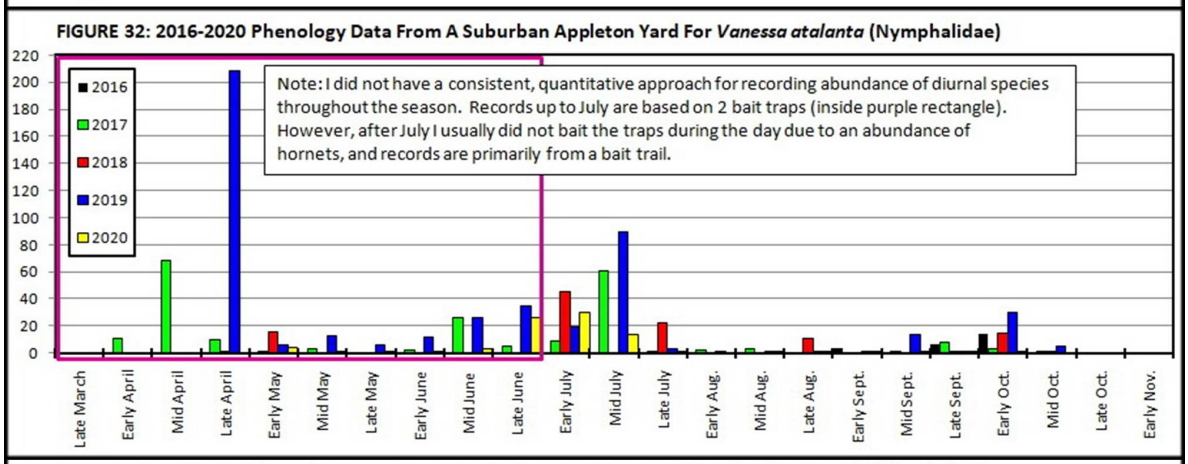
FIGURE 32: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Vanessa atalanta* (Nymphalidae)
Note: I did not have a consistent, quantitative approach for recording abundance of diurnal species throughout the season. Records up to July are based on 2 bait traps (inside purple rectangle). However, after July I usually did not bait the traps during the day due to an abundance of hornets, and records are primarily from a bait trail.
2016
2017
2018
2019
2020
Late March
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.

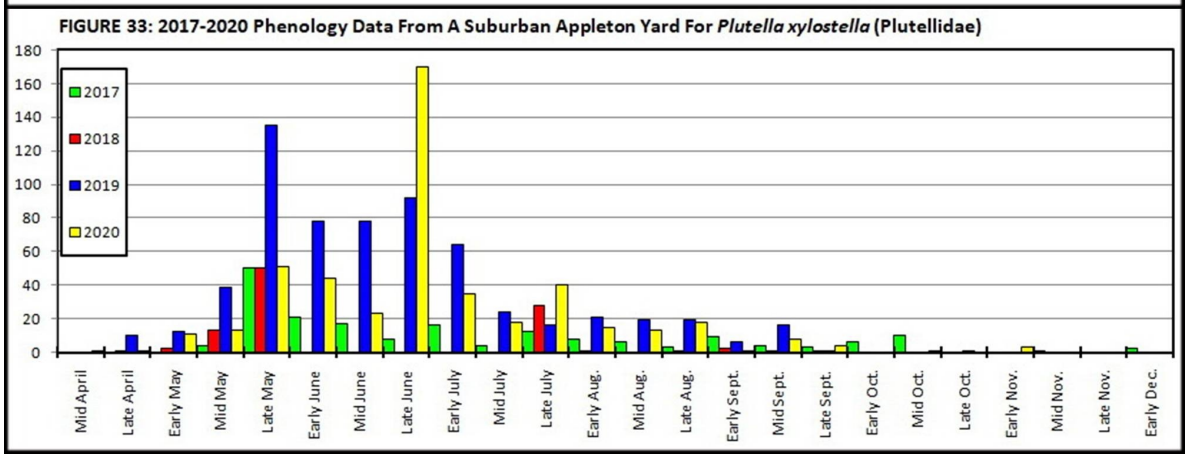
FIGURE 33: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Plutella xylostella* (Plutellidae)
2017
2018
2019
2020
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.
Early Dec.

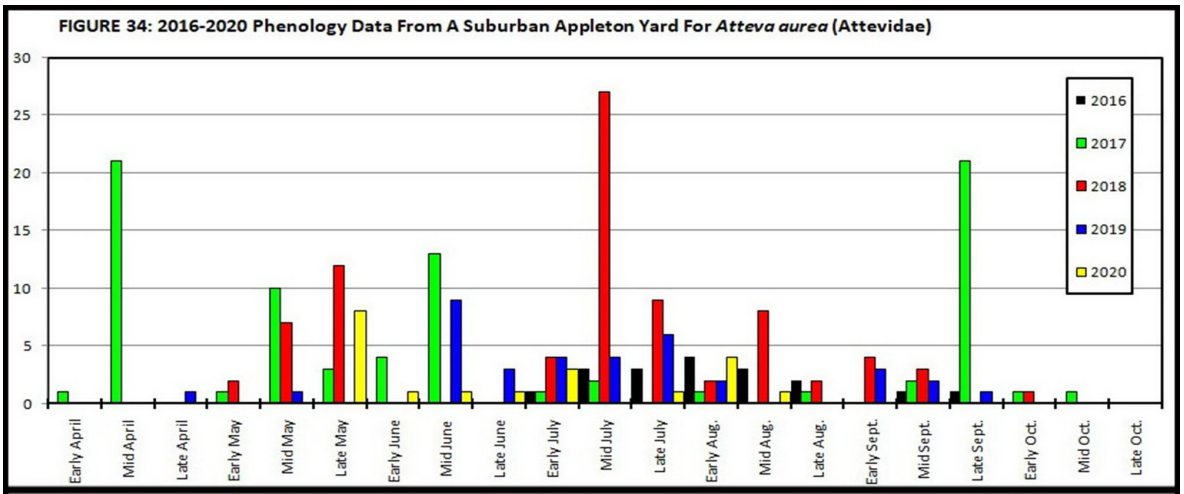
FIGURE 34: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Atteva aurea* (Attevidae)
2016
2017
2018
2019
2020
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

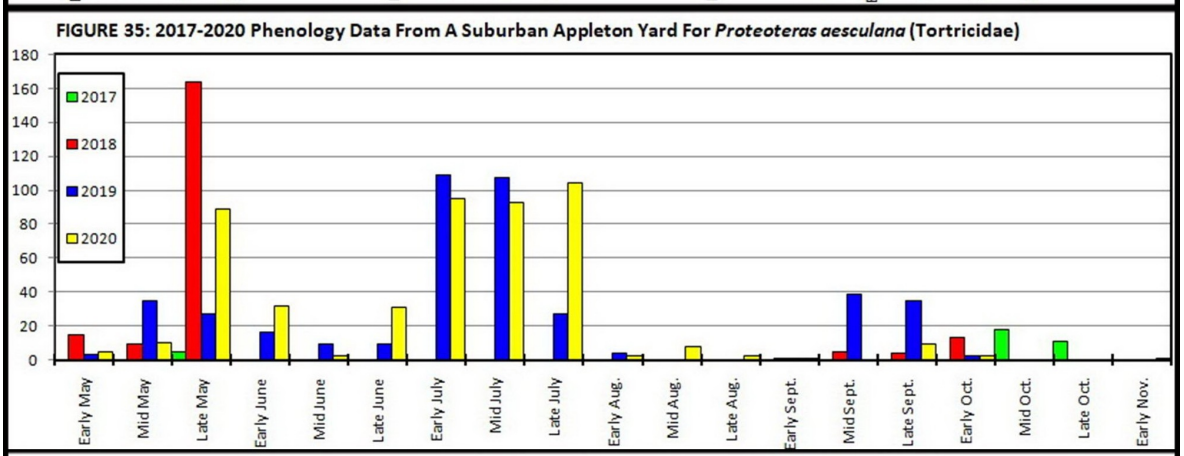
FIGURE 35: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Proteoteras aesculana* (Tortricidae)
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.

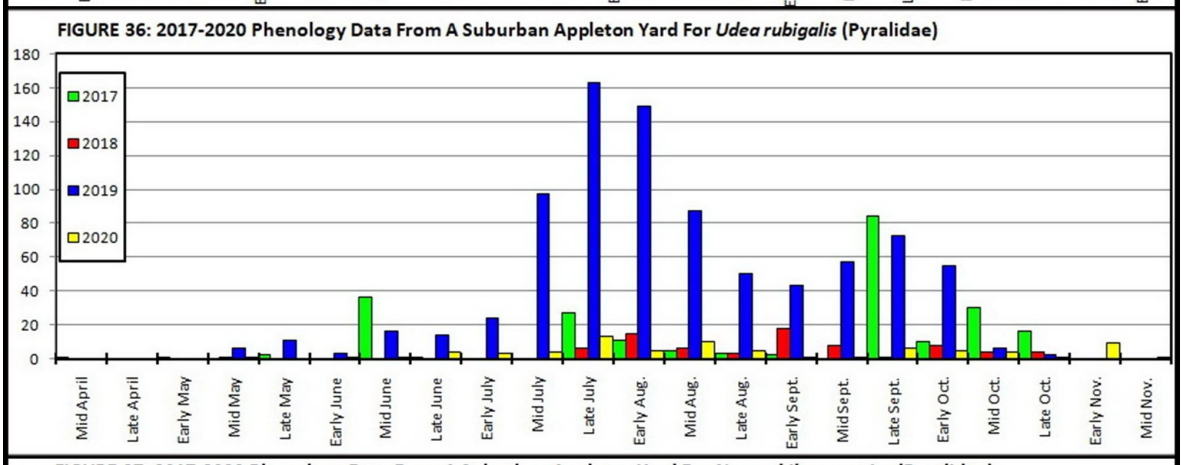
FIGURE 36: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Udea rubigalis* (Pyralidae)
2017
2018
2019
2020
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.

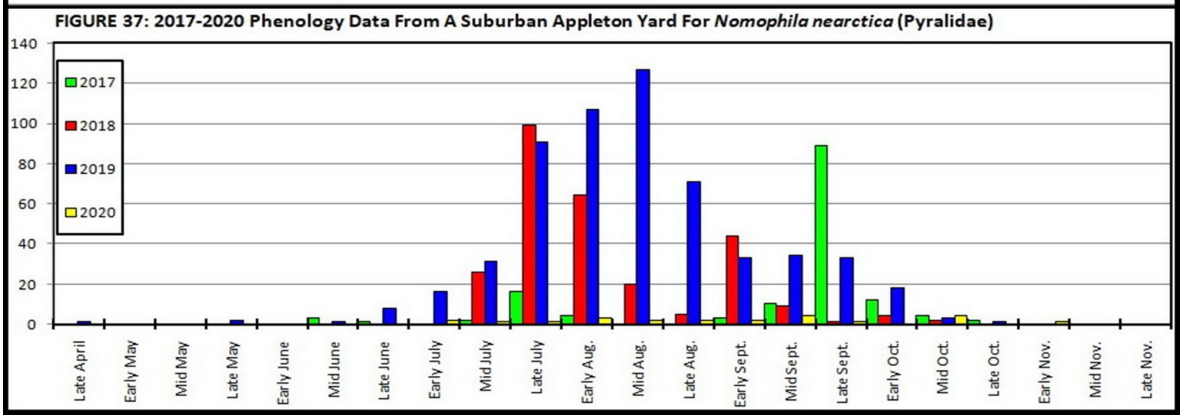
FIGURE 37: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Nomophila nearctica* (Pyralidae)
2017
2018
2019
2020
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

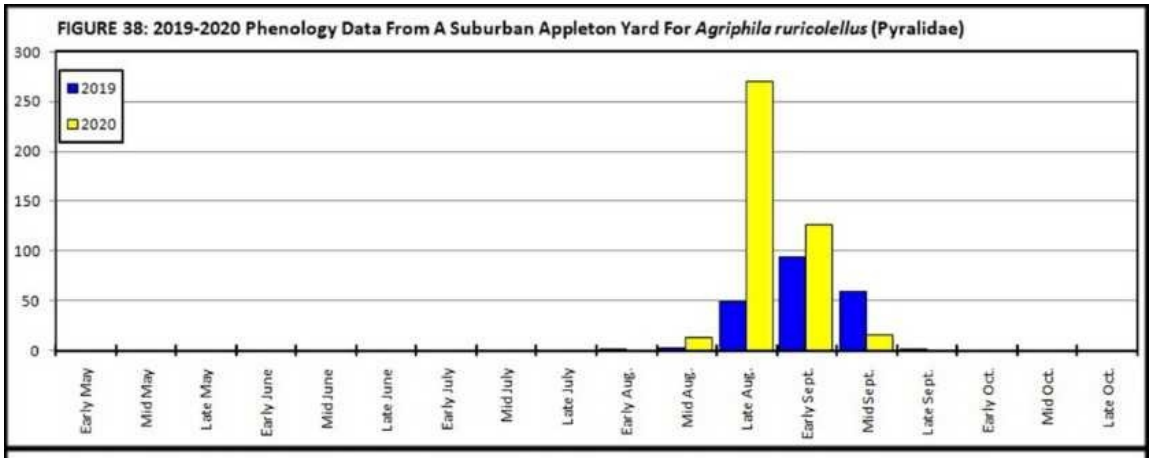
FIGURE 38: 2019-2020 Phenology Data From A Suburban Appleton Yard For *Agriphila ruricolellus* (Pyralidae)
2019
2020
300
250
200
150
100
50
0
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

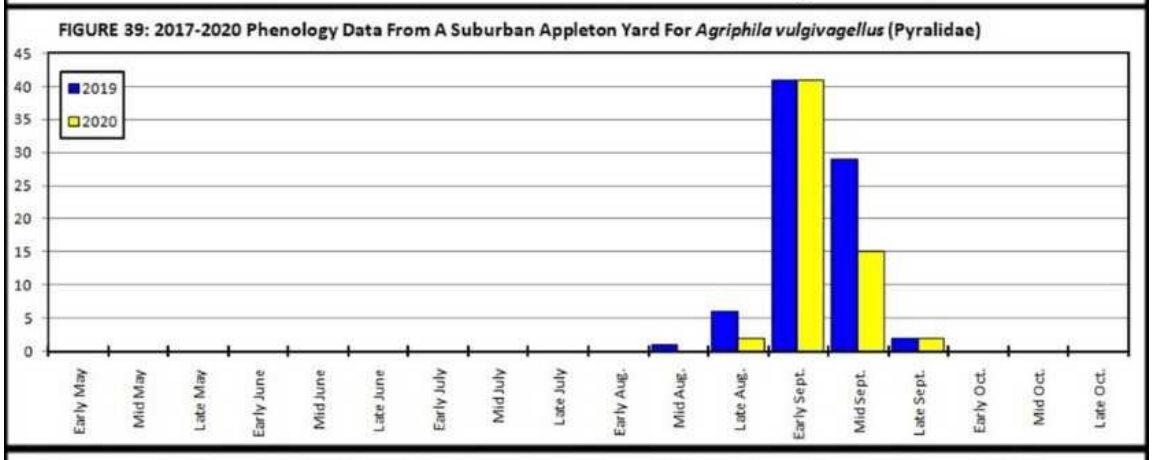
FIGURE 39: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Agriphila vulgivagellus* (Pyralidae)
2019
2020
45
40
35
30
25
20
15
10
5
0
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

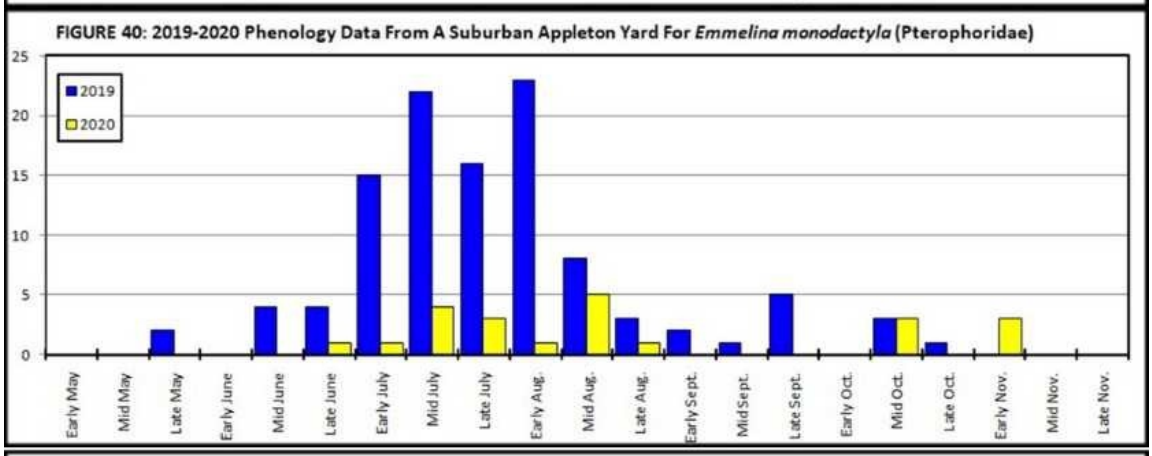
FIGURE 40: 2019-2020 Phenology Data From A Suburban Appleton Yard For *Emmelina monodactyla* (Pterophoridae)
2019
2020
25
20
15
10
5
0
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.
Mid Nov.
Late Nov.

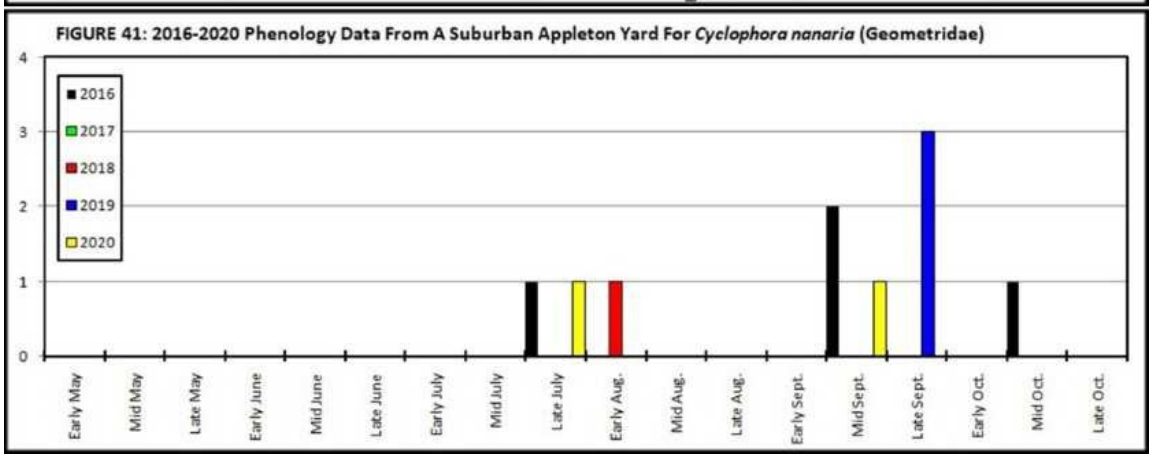
FIGURE 41: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Cyclophora nanaria* (Geometridae)
2016
2017
2018
2019
2020
4
3
2
1
0
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

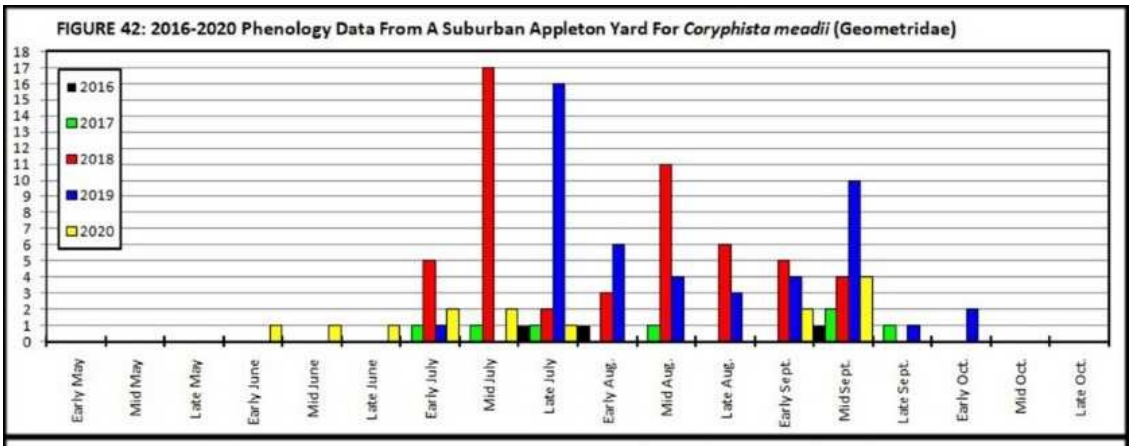
FIGURE 42: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Coryphista meadii* (Geometridae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

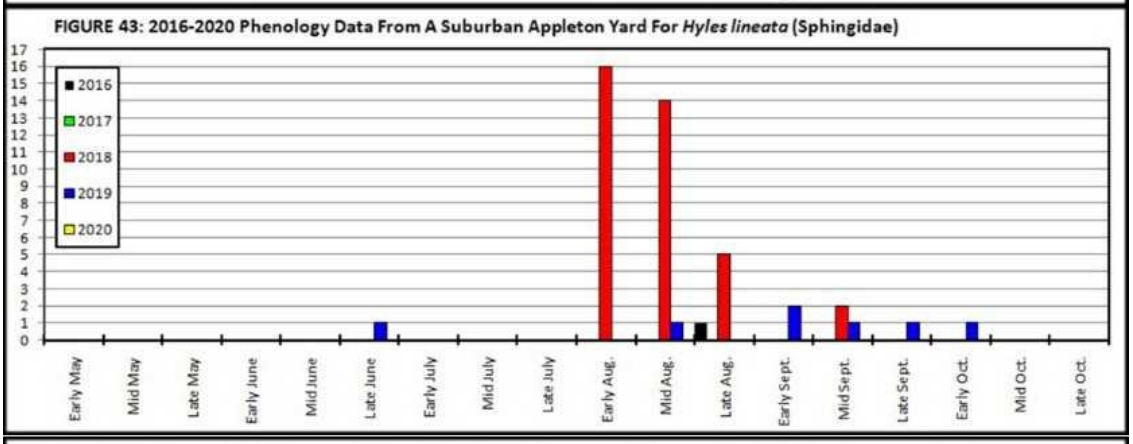
FIGURE 43: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Hyles lineata* (Sphingidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

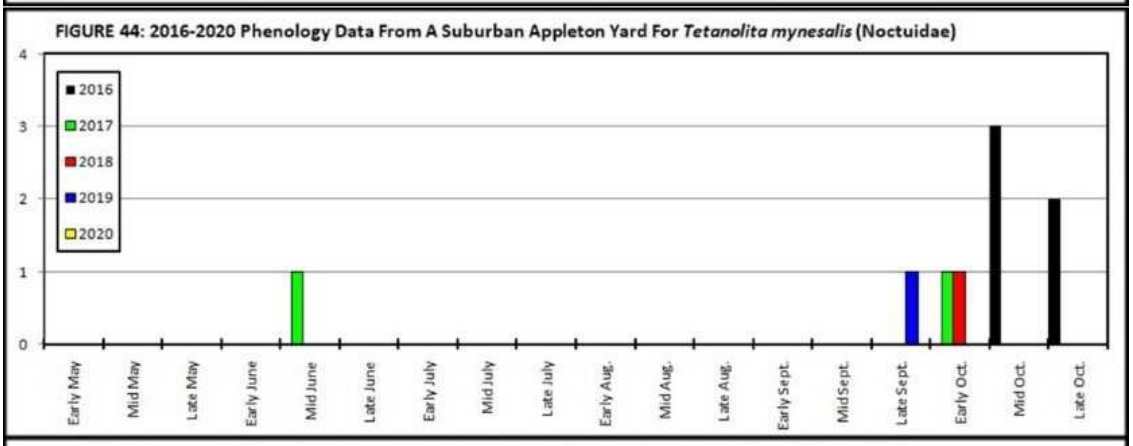
FIGURE 44: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Tetanolita mynesalis* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

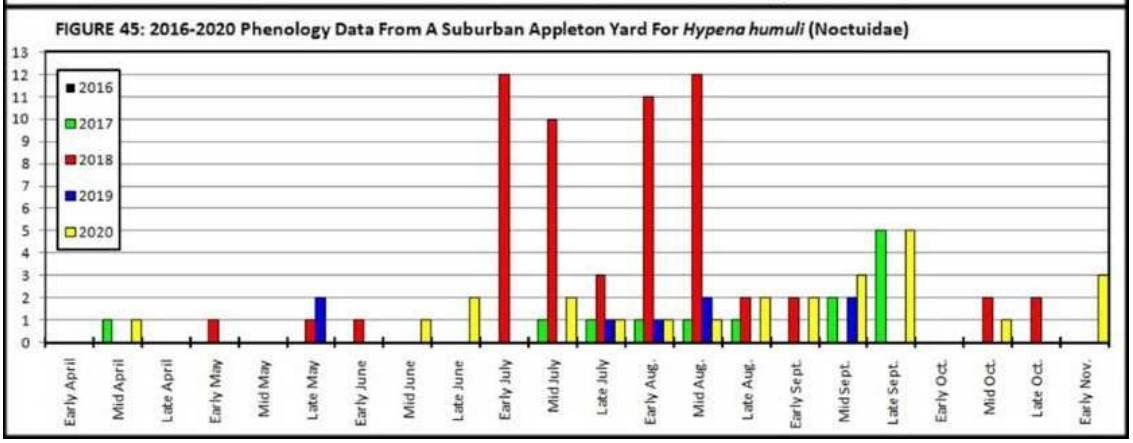
FIGURE 45: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Hypena humuli* (Noctuidae)
2016
2017
2018
2019
2020
Early April
Mid April
Late April
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.

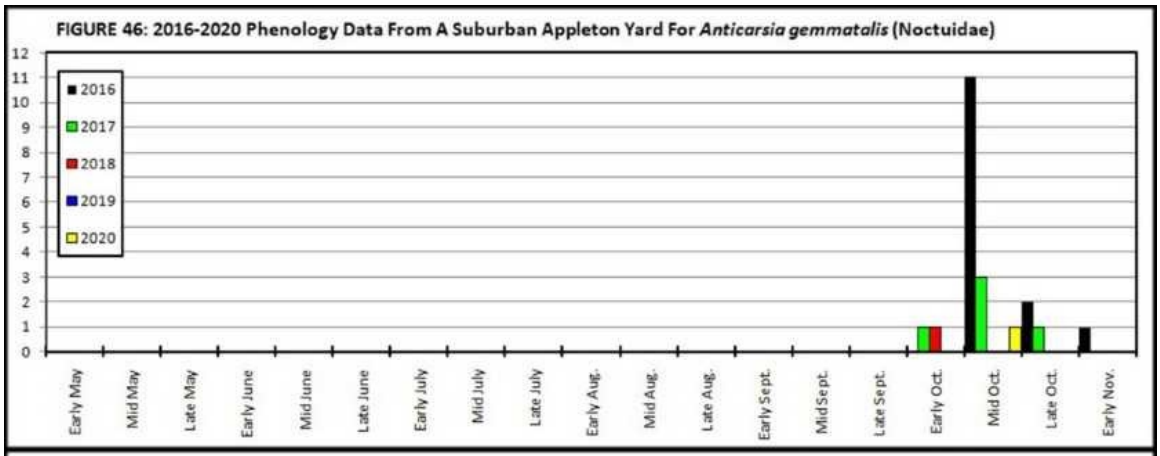

FIGURE 46: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Anticarsia gemmatalis* (Noctuidae)

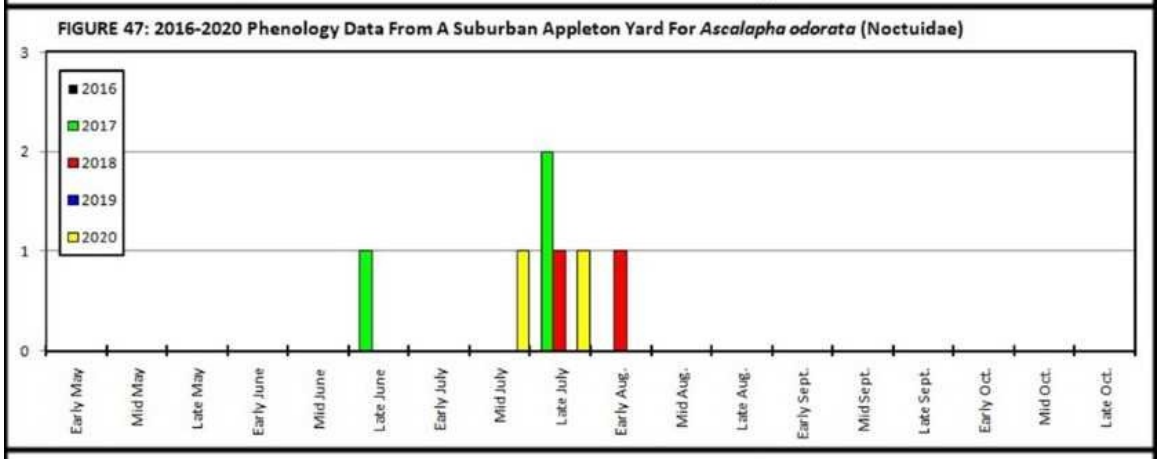

FIGURE 47: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Ascalapha odorata* (Noctuidae)

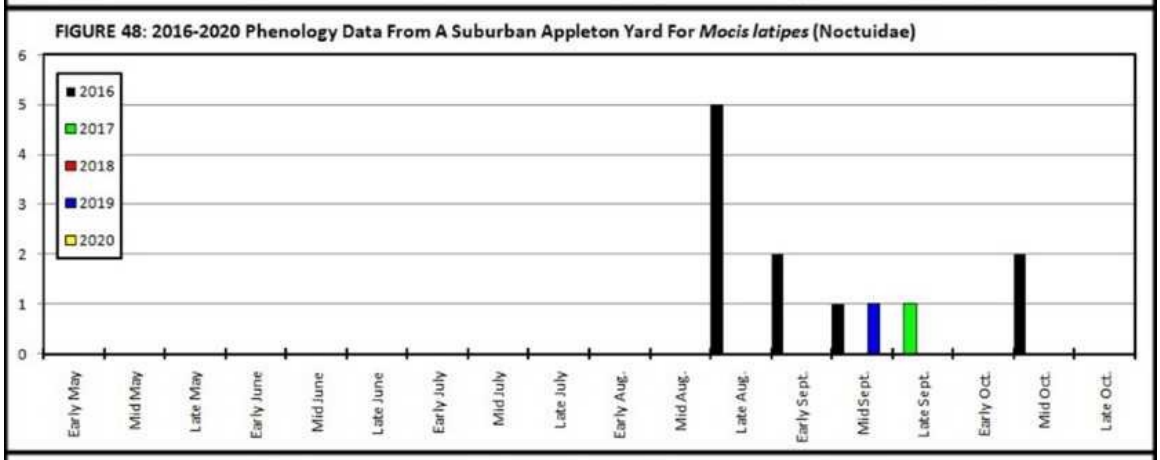

FIGURE 48: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Mocis latipes* (Noctuidae)

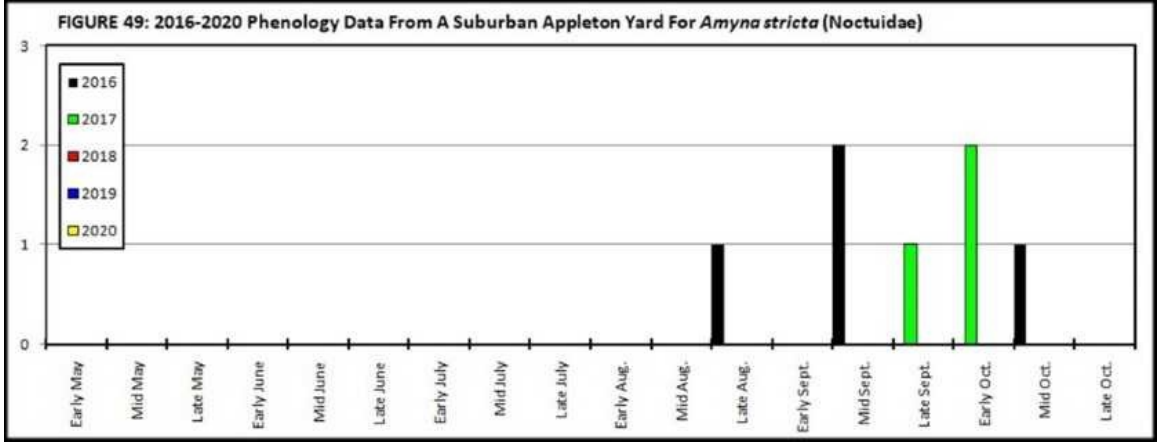

FIGURE 49: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Amyna stricta* (Noctuidae)

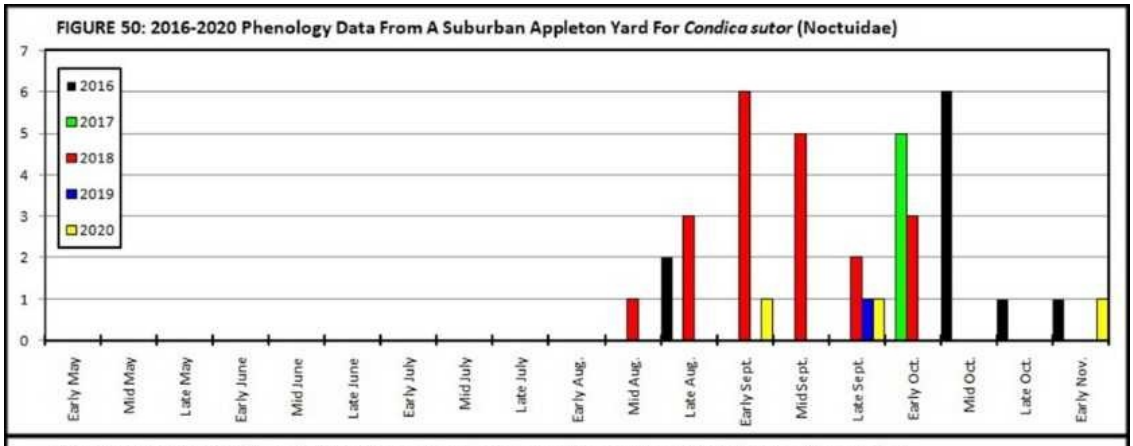
FIGURE 50: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Condica sutor* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.

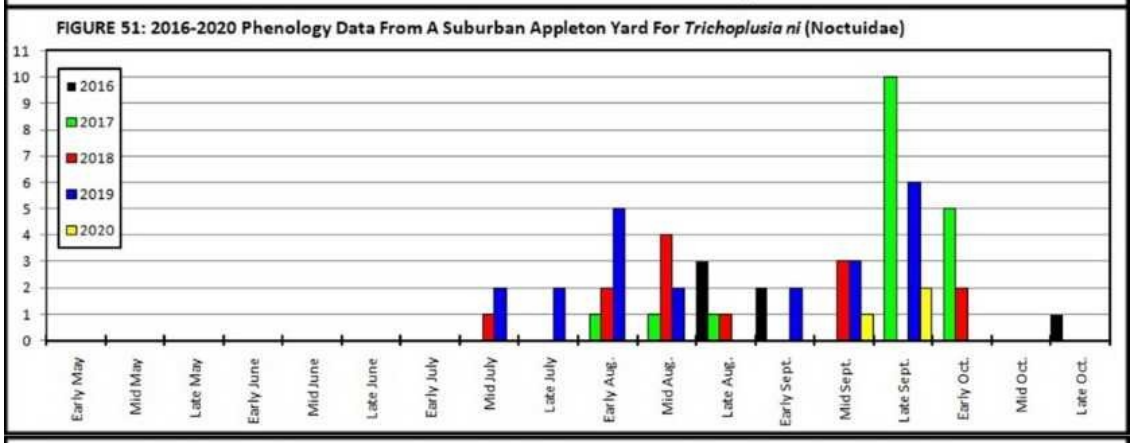
FIGURE 51: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Trichoplusia ni* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

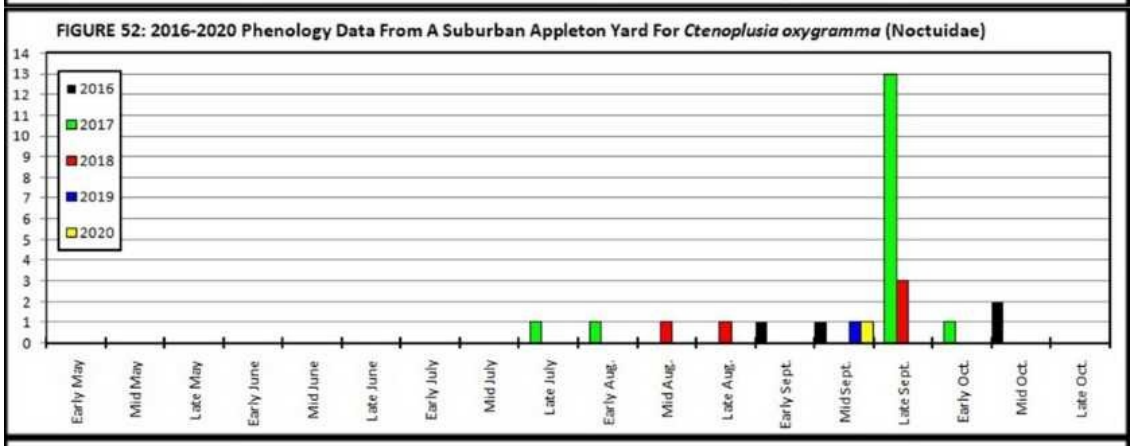
FIGURE 52: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Ctenoplusia oxygramma* (Noctuidae)
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

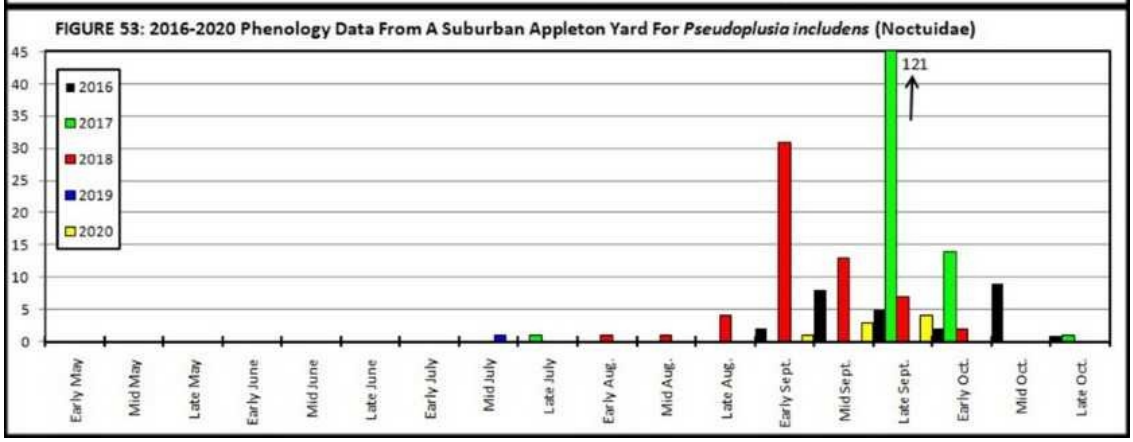
FIGURE 53: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Pseudoplusia includens* (Noctuidae)
121
2016
2017
2018
2019
2020
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

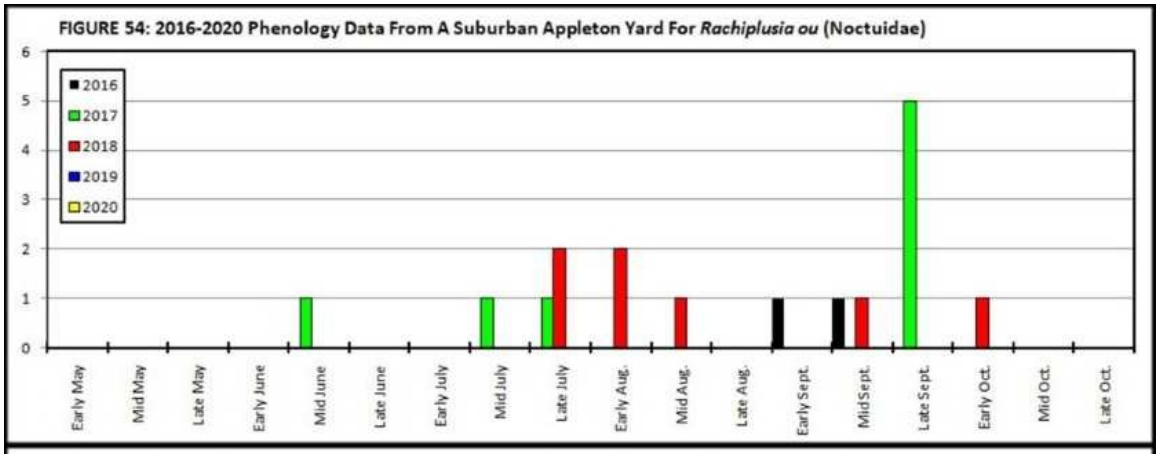
FIGURE 54: 2016-2020 Phenology Data From A Suburban Appleton Yard For Rachiplusia ou (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
4
5
6
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

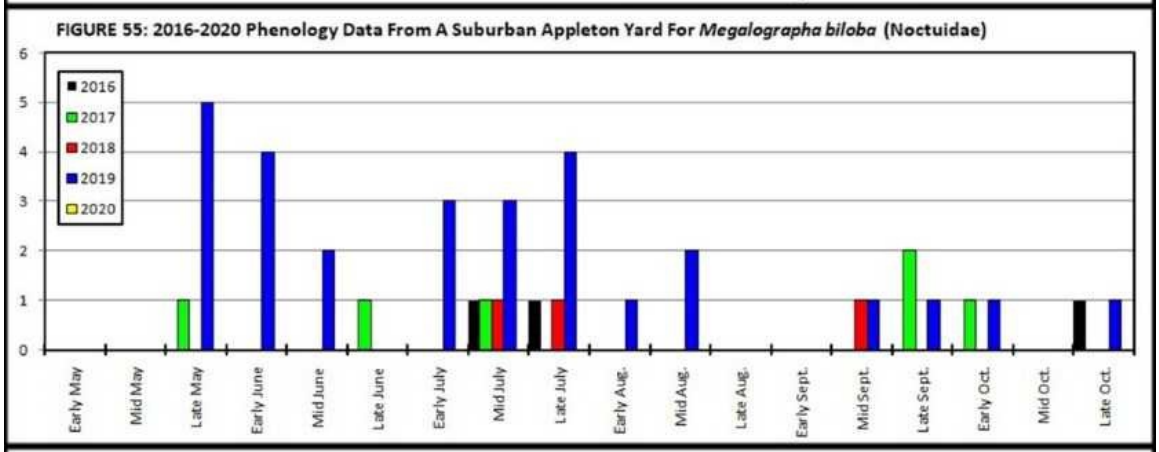
FIGURE 55: 2016-2020 Phenology Data From A Suburban Appleton Yard For Megalographa biloba (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
4
5
6
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

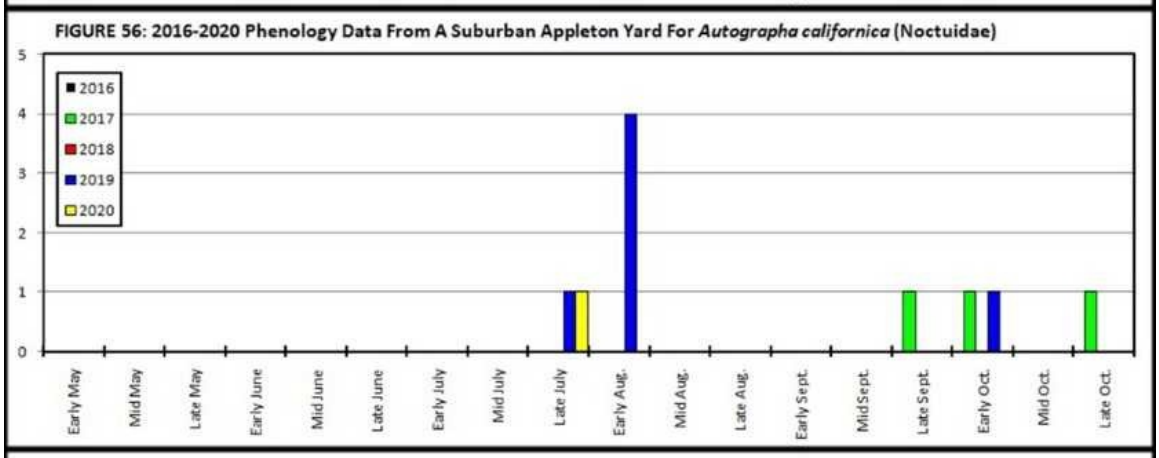
FIGURE 56: 2016-2020 Phenology Data From A Suburban Appleton Yard For Autographa californica (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
4
5
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

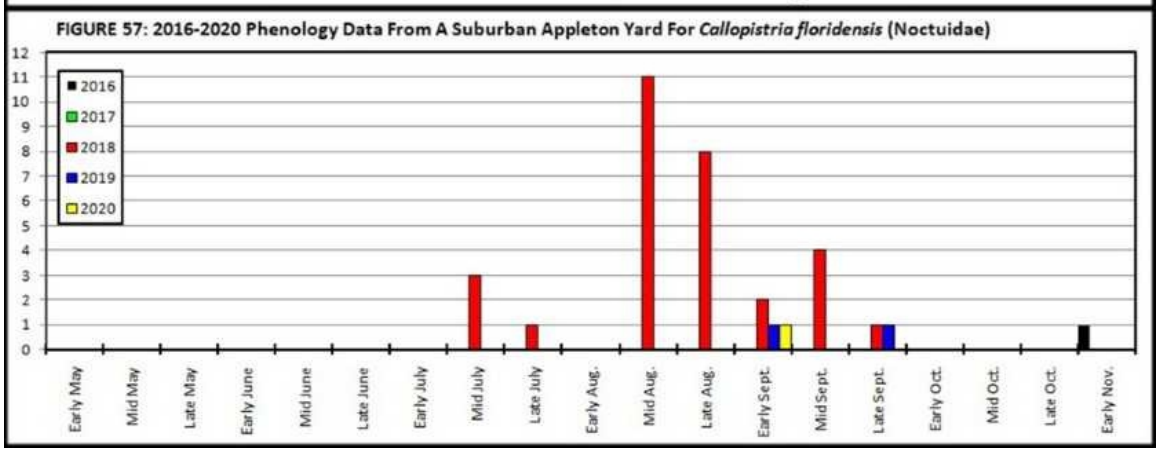
FIGURE 57: 2016-2020 Phenology Data From A Suburban Appleton Yard For Callopistria floridensis (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
4
5
6
7
8
9
10
11
12
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.

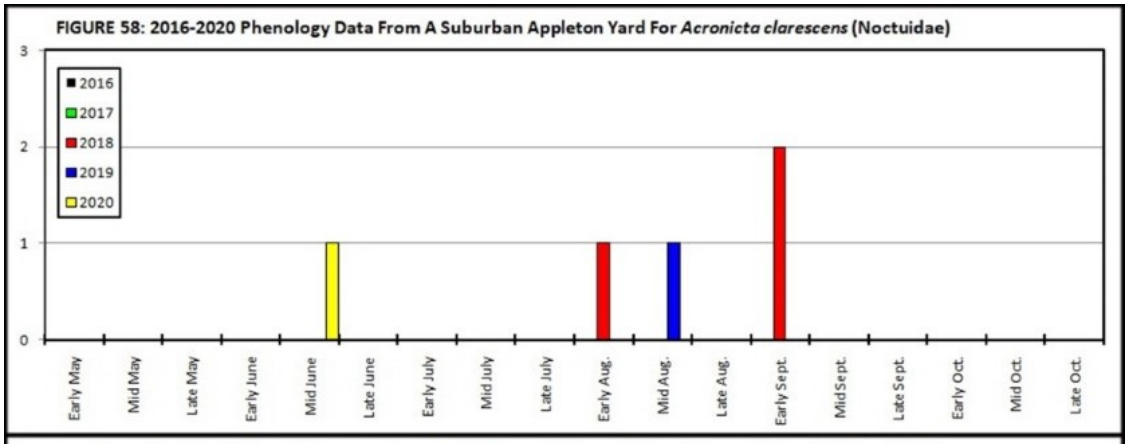
FIGURE 58: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Acronicta clarescens* (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

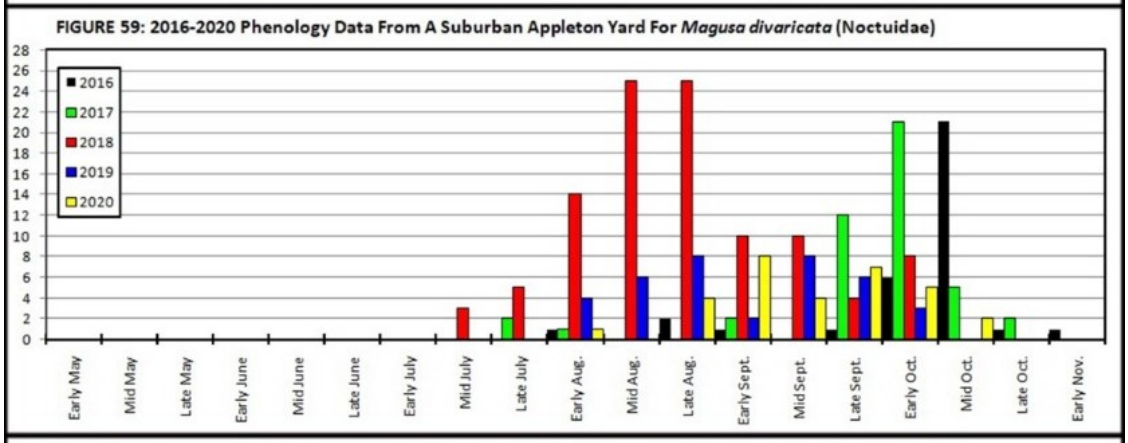
FIGURE 59: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Magusa divaricata* (Noctuidae)
2016
2017
2018
2019
2020
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.
Early Nov.

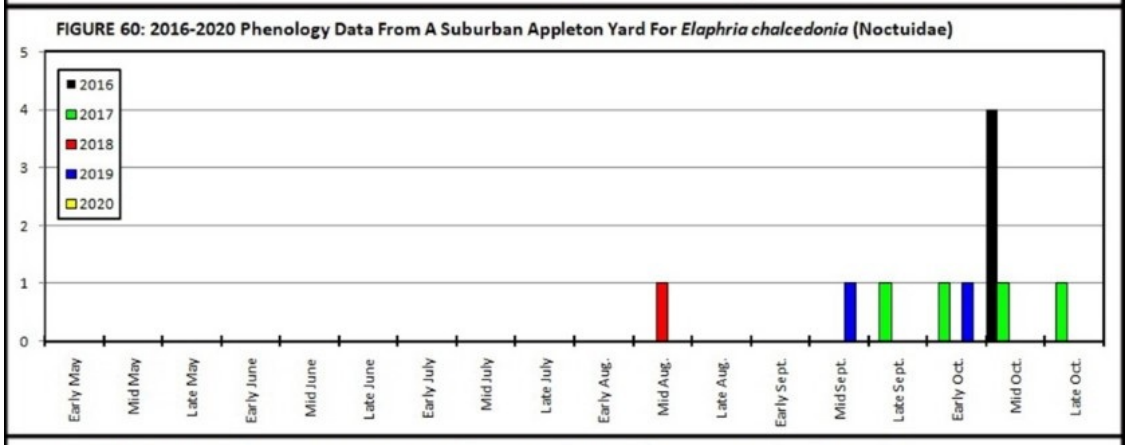
FIGURE 60: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Elaphria chalcedonia* (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
4
5
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

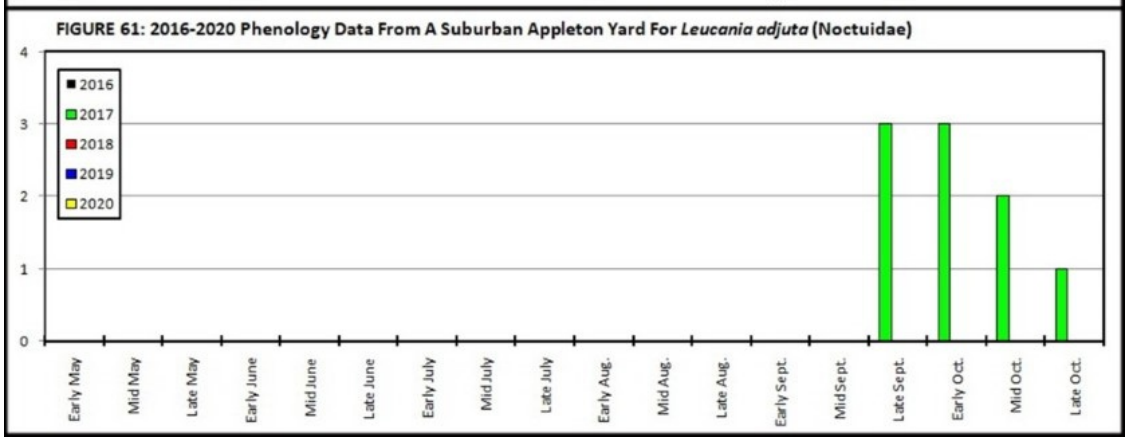
FIGURE 61: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Leucania adjuta* (Noctuidae)
2016
2017
2018
2019
2020
0
1
2
3
4
Early May
Mid May
Late May
Early June
Mid June
Late June
Early July
Mid July
Late July
Early Aug.
Mid Aug.
Late Aug.
Early Sept.
Mid Sept.
Late Sept.
Early Oct.
Mid Oct.
Late Oct.

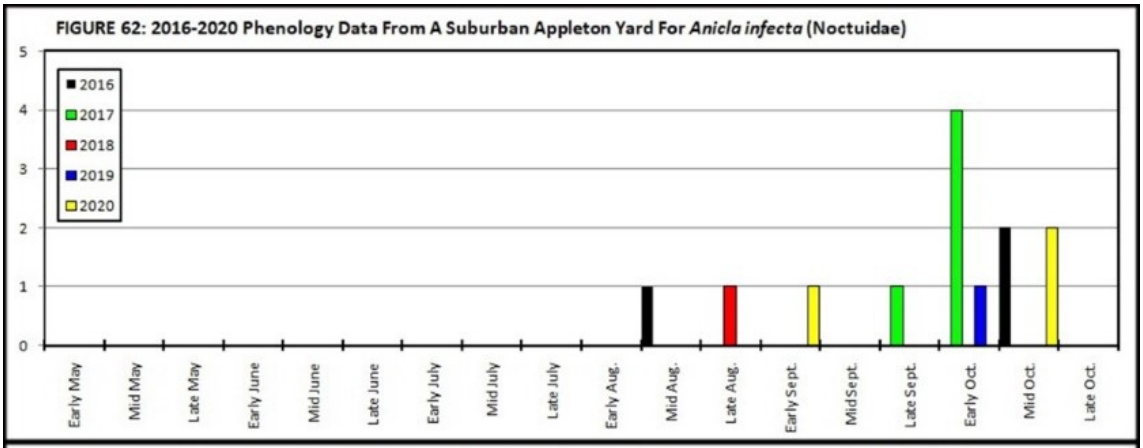

FIGURE 62: 2016-2020 Phenology Data From A Suburban Appleton Yard For *Anicla infecta* (Noctuidae)

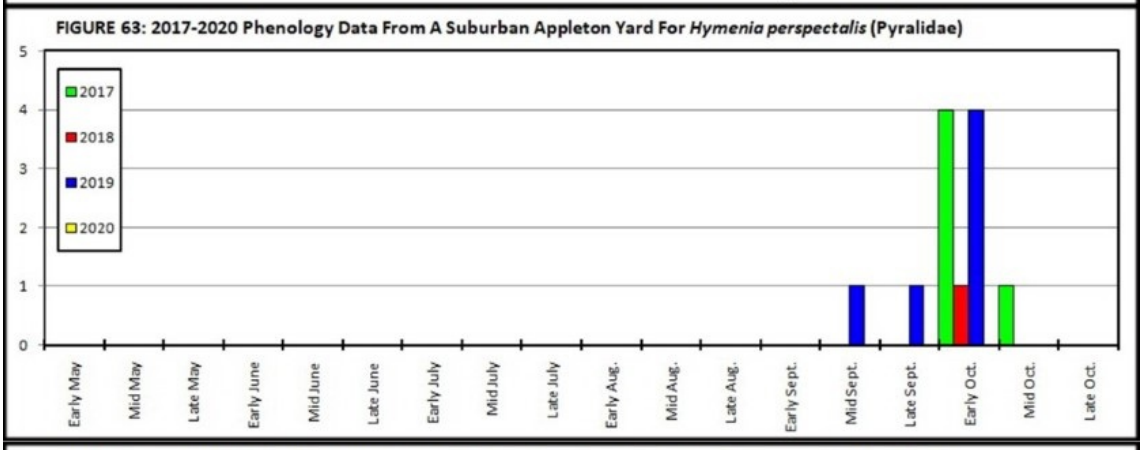

FIGURE 63: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Hymenia perspectalis* (Pyralidae)

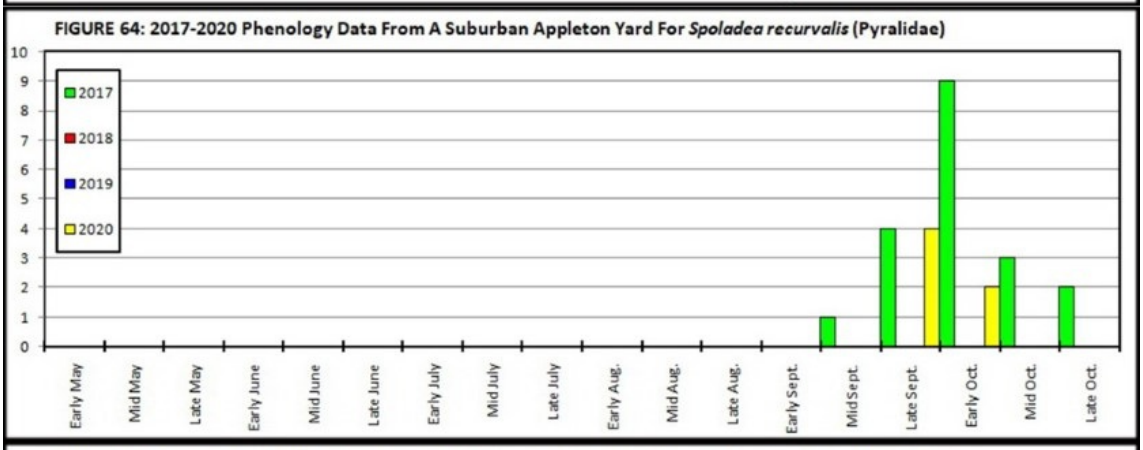

FIGURE 64: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Spoladea recurvalis* (Pyralidae)

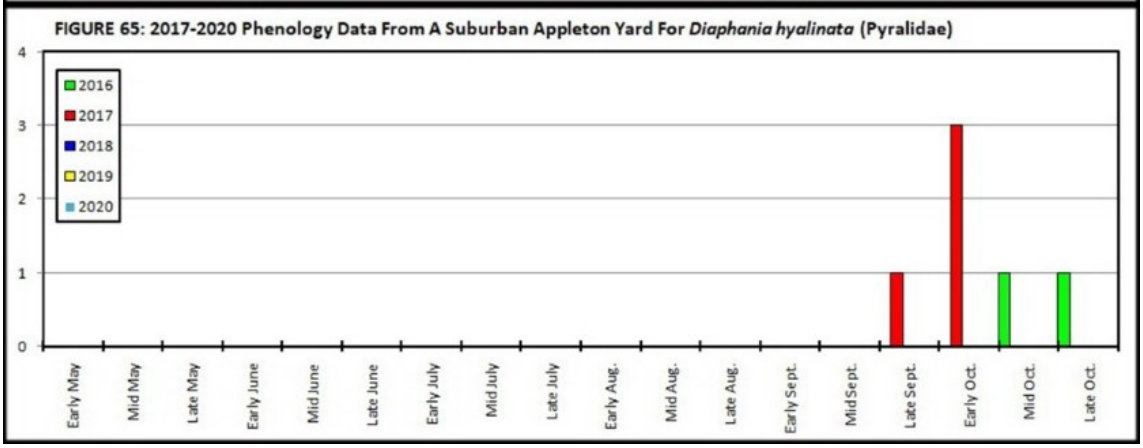

FIGURE 65: 2017-2020 Phenology Data From A Suburban Appleton Yard For *Diaphania hyalinata* (Pyralidae)