

Other Insect Activity for 1000 - 2500 GDD (~ July)

Crop type	Common Name	Scientific Name	GDD Min (50F)	GDD Max (95F)	Reference	Developmental / Target Stage
Many	Redheaded flea beetle	<i>Systema frontalis</i>	1028	1570	Unv. Del	2nd generation of un-hatched eggs
Locust	Locust leafminer	<i>Odontota dorsalis</i>	1029	1388	RU	Adults
Juglandaceae	Walnut Caterpillar	<i>Datana integerrima</i>	1029	1514	2	Larvae Treatment
Turf	Bluegrass billbug	<i>Sphenophorus parvulus</i>	1094	1217	RU	Larvae (40%)
Many	Oriental Beetle	<i>Anomala orientalis</i>	1147	-	6	Adult emergence
Dogwood	Dogwood sawfly	<i>Macremphytus tarsatus</i>	1151	1500	RU	Larvae Treatment
Tulip	Tuliptree aphid	<i>Illinoia liriodendri</i>	1151	1514	RU	Nymphs / adults
Boxwood	Boxwood leafminer	<i>Monoarthralpalpus flavus</i>	1200	1400	5	Larvae Treatment
Conifer	Northern pine weevil	<i>Pissodes nemorensis</i>	1200	1400	4	2nd generation adults active
Conifer	Pales weevil	<i>Hylobius pales</i>	1200	1400	4	Adults 2nd generation
Conifer	Pine root collar weevil	<i>Hylobius radialis</i>	1200	1400	4	2nd generation adults active
Conifer	White pine weevil	<i>Pissodes strobi</i>	1200	1400	4	2nd generation adults active
Rhododendron	Azalea whitefly	<i>Pealius azaleae</i>	1250	1500	5	Adults/nymphs (2nd generation)
Turf	Bluegrass sod webworm	<i>Parapediasia teterrella</i>	1250	1920	RU	Larvae
Privet	Privet rust mite	<i>Aculus ligustri</i>	1266	1515	5	Second typical treatment window
Many	Lacebugs (on hawthorn)	<i>Corythucha cydoniae</i>	1266	1544	RU	Nymphs / adults
Many	Leafhoppers	Species within Cicadellidae	1266	1544	RU	Nymphs / adults
Birch	Birch Skeletonizer	<i>Bucculatrix canadensisella</i>	1266	1580	5	Typical treatment window
Many	Fall webworm	<i>Hyphantria cunea</i>	1266	1795	2	Caterpillars present - larvae treatment
Many	Two spotted spider mite	<i>Tetranychus urticae</i>	1300	2000	RU	Nymphs / adults
Turf	N. Masked chafer	<i>Cyclocephala borealis</i>	1377	1579	RU	Adults (90%)
Lilac	Lilac leafminer	<i>Caloptilia syringella</i>	1388	1644	5	Typical treatment window
Conifer	Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	1500	1775	RU	Adults/nymphs (Douglas Fir)
Many	Redheaded flea beetle	<i>Systema frontalis</i>	1570	1860	Unv. Del	2nd generation egg hatch
Many	Japanese beetle	<i>Popillia japonica</i>	1590	1925	RU	Adults (90%)
Conifer	Rust-mites	<i>Nalepella and Setoptus spp.</i>	1644	2030	RU	Nymphs / adults
Many	Two-banded Japanese weevil	<i>Pseudocneorhinus bifasciatus</i>	1644	2271	RU	Adults
Willow	Willow twig aphids	<i>Lachnus spp.</i>	1644	2271	5	Typical treatment window
Conifer	Juniper webworm	<i>Dichomeris marginella</i>	1645	1917	RU	Larvae Treatment
Oaks	Oak skeletonizer	<i>Bucculatrix ainsliella</i>	1798	2155	RU	Larvae
Mimosa, Honeylocust	Mimosa webworm	<i>Homadaula anisocentra</i>	1800	2100	RU	Larvae (2nd generation)
Conifer	Arborvitae leafminer	<i>Argyresthia thuiella</i>	1800	2200	RU	Larvae Treatment (3rd generation)
Conifer	Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	1850	1950	RU	Galls open (Spruce)
Turf	Hairy chinch bug	<i>Blissus leucopterus</i>	1903	2160	RU	Second generation- 50%- 2nd instars
Tulip	Tuliptree aphid	<i>Illinoia liriodendri</i>	1917	2033	RU	Nymphs
Conifer	Zimmerman pine moth	<i>Dioryctria zimmermani</i>	1917	2154	5	Treatment window (adult flight-1700 GDD)
Mainly Oaks	Orangestriped oakworm	<i>Anisota senatoria</i>	1917	-	6	Egg hatch - early instars
Conifer	White pine aphid	<i>Cinara strobi</i>	1991	2271	RU	Adults
Rhododendron	Azalea whitefly	<i>Pealius azaleae</i>	2032	2150	5	Adults/nymphs (3rd generation)
Conifer	Spruce spider mite	<i>Oligonychus ununguis</i>	2375	2806	5	Typical treatment window
Many	Southern red mite	<i>Oligonychus ilicis</i>	2500	2700	5	Typical treatment window

Note: Growing degree-day values utilize daily average air temperatures with a minimum temperature threshold (a.k.a. "base") of 50F = GDD50 (max. temp. threshold set at 95F). These values are accumulated from a biofix date, such as January or March 1st in the NE USA. Provided GDD50 are scouting ranges and should be truthed.

Daily GDD50 =
 $(\text{Max} + \text{Min temp.}) / 2 - 50 \text{ (min temp. threshold)}$

References

RU	Rutgers Cooperative Extension - Landscape IPM Notes
2	http://cctompkins.org/resources/using-growing-degree-days-for-insect-management
3	https://extension.psu.edu/ipm-basics-for-christmas-trees#section-2
4	https://www.canr.msu.edu/ipm/agriculture/christmas_trees/gdd_of_conifer_insects
5	https://www.agriculture.nh.gov/publications-forms/documents/landscape-pests.pdf
6	https://extension.umd.edu/ipm/pest-predictive-calendar-landscapenursery
7	https://www.canr.msu.edu/ipm/agriculture/christmas_trees/gdd_of_landscape_insects
Unv. Del.	Correspondance with Dr. Kunkel (University of Delaware)-evolving GDD ranges

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