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Projected GDD50 accumulation as of 8/1/2021									
Region	Location	1-Aug	1-Sep	1-Oct	1-Nov	•			
Southern	Upper Deerfield (NJ50)	2145	2931	3477	3682				
Central	Howell / Freehold (NJ10)	1896	2630	3109	3249				
Northern	High Point (NJ59)	1490	2045	2352	2384	-			

Forecast: NOAA NCEP Coupled Forecast System model version 2 (CFSv2) forecast system (3.5 months) (USPEST. ORG)

## Pest Scouting Guide: (1600-3000 GDD<sub>50</sub>)

The information provided here gives **scouting ranges** for insect pests as well as forecasting of **GDD**<sub>50</sub> **accumulation predictions** to help time scouting and treatment efforts. This document supports scouting, *it does not replace it*. Keeping good notes on pest development will help dial in scouting and treatment efforts at your local level.

## Location specific GDD<sub>50</sub> models

USPEST.org/dd/model\_app and http://newa.cornell.edu/

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est Scouting - Grov	(1600-3000 GDD50)						
CROP TYPE	Common Name	Scientific Name	GDD Min (50F)	GDD Max (95F)	Reference	Developmental / Target Stage	
Many	Redheaded flea beetle	Systena frontalis	1570	1860	Udel.	2nd generation egg hatch	
Many	Two-banded Japanese weevil	Pseudocneorhinus bifasciatus	1644	2271	RU	Adults	
Willow	Willow twig aphids	Lachnus spp.	1644	2271	5	Typical treatment window	
Conifer	Juniper webworm	Dichomeris marginella	1645	1917	RU	Larvae Treatment	
Euonymus	Euonymus Scale	Unaspis euonymil	1700	-	RU	Prophylactic 2nd generation treatments	
Conifer	Cryptomeria scale	Aspidiotus cryptomeriae	1750	2130	RU, 4	Crawlers emerge (2nd generation)	
Many	Obscure scale	Melanaspis obscura	1774	-	6	Egg hatch / crawler	
Oaks	Oak skeletonizer	Bucculatrix ainsliella	1798	2155	RU	Larvae	
Conifer	Arborvitae leafminer	Argyresthia thuiella	1800	2200	RU	Larvae Treatment (3rd generation)	
Mimosa, Honeylocust	Mimosa webworm	Homadaula anisocentra	1800	2100	RU	Larvae (2nd generation)	
Conifer	Cooley spruce gall adelgid	Adelges cooleyi	1850	1950	RU	Galls open (Spruce)	
Many	Redheaded flea beetle	Systena frontalis	1878	2318	Udel.	2nd generation Adults feeding	
Turf	Hairy chinch bug	Blissus leucopterus	1903	2160	RU	Second generation- 50%- 2nd instars	
Tulip	Tuliptree aphid	Illinoia liriodendri	1917	2033	RU	Nymphs	
Conifer	Zimmerman pine moth	Dioryctria zimmermani	1917	2154	5	Treatment window (adult flight-1700 GDD)	
Mainly Oaks	Orangestriped oakworm	Anisota senatoria	1917	-	6	Egg hatch - early instars	
Conifer	White pine aphid	Cinara strobi	1991	2271	RU	Adults	
Rhododendron	Azalea whitefly	Pealius azaleae	2032	2150	5	Adults/nymphs (3rd generation)	
Maple	Sugar maple borer	Glycobius speciosus	2032	2375	5	Typical treatment window	
Conifer	Maskell scale	lepidosaphes pallia	2035	-	6	Egg hatch / crawler (2nd generation)	
Mainly Tulip	Tulip tree scale	Toumeyella liriodendri	2037	2629	RU	Crawlers (1st generation)	
Mainly Magnolia	Magnolia scale	Neolecanium cornuparvum	2155	2800	RU	Crawlers (1st generation)	
Euonymus	Euonymus Scale	Unaspis euonymil	2235	-	6	Egg hatch / crawler (2nd generation)	
Locust	Locust borer	Magacyllene robiniae	2271	2805	5	Typical treatment window	
Poplar and Willow	Poplar and willow borer	Crytorhynchus lapathi	2271	2806	5	Typical treatment window	
Conifer	Spruce spider mite	Oligonychus ununguis	2375	2806	5	Typical treatment window - fall activity	
Many	Southern red mite	Oligonychus ilicis	2500	2700	5	Typical treatment window	
Maple	Japanese maple scale	Lopholeucaspis japonica	2508	-	6	Egg hatch / crawler (2nd generation)	
Yew, many conifers	Fletcher Scale (Yew)	Parthenolecanium fletcheri	2515	2800	RU	Fall control of overwintering stage	
Conifer	Elongate hemlock scale	Fiorinia externa	2515	2625	RU	Typical treatment window - fall activity	
Hardwoods	Fall webworm	Hyphantria cunea	2793	-	6	Egg hatch / crawler (2nd generation)	
Conifer	Cooley spruce gall adelgid	Adelges cooleyi	2800	3000	3	Fall control of overwintering stage	
Conifer	Eastern spruce gall adelgid	Adelges abietis	2800	3000	3	Fall control of overwintering stage	
· ·			RU	Rutgers Cooperative Extension - Landscape IPM Notes			
te: Growing degree-day values utilize daily average air temperatures with a inimum temperature threshold (a.k.a. 'base') of 50F = GDD50 (max. temp. ireshold set at 95F). These values are accumulated from a biofix date, such			2	http://ccetompkins.org/resources/using-growing-degree-days-for-insect-management https://extension.psu.edu/ipm-basics-for-christmas-trees#section-2			
			3				
January or March 1st in the N	E USA. Provided GDD50 are scouting ranges		4	https://www.canr.msu.edu/ipm/agriculture/christmas_trees/gdd_of_conifer_insects			
and should be truthed.		References	5	https://www.agriculture.nh.gov/publications-forms/documents/landscape-pests.pdf			
Daily GDD50 = (Max + Min temp.) / 2 - 50 (min temp. threshold)		1	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.	Coorespondance with Dr. Kunkel (University of Delaware)-evolving GDD ranges			
		1		nd County Nursery			