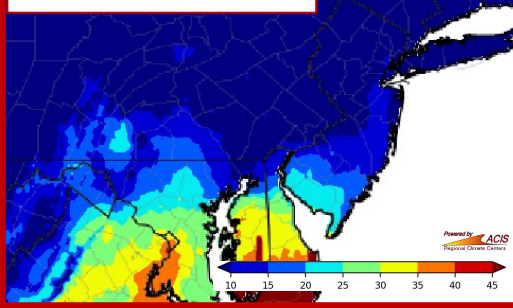


GDD Forecast (base 50)
March 15-17, 20201



Early Season Conifer Pest Scouting (GDD₅₀) information:

The information provided here gives **scouting ranges** for insect pests as well as forecasting of **GDD₅₀ accumulation predictions** to help time scouting and treatment efforts. Location specific GDD₅₀ models, can be obtained at (USPEST.org/dd/model_app and <http://newa.cornell.edu/>). Contact Tim Waller (twaller@njaes.rutgers.edu) for more information.

Projected GDD50 accumulation as of						
Region	Location	March 1st	April 1st	May 1st	June 1st	July 1st
Southern	Upper Deerfield (NJ50)	0	24	133	540	1217
Central	Howell / Freehold (NJ10)	0	14	95	443	1064
Northern	High Point (NJ59)	0	1	7	220	672

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

Early Season Conifer Pest Scouting - Growing Degree-day Ranges

Starting: (0-300 GDD50)

Common name	Scientific name	GGD50 Range		GGD50 Reference	Developmental / Target Stage
		MIN	MAX		
		min: 50 °F	max: 95 °F		
Conifer rust mites	<i>Eriophyidae</i>	7	22	4	Overwintering eggs hatch
Eastern pine weevil	<i>Pissodes nemorensis</i>	7	58	RU	Overwintering adults become active / prevent egg laying
Taxus mealybug	<i>Dysmicoccus wistariae</i>	7	91	2	Spring control of overwintering stage
Cottony taxus scale	<i>Pulvinaria floccifera</i>	7	91	6	Spring control of overwintering stage
Elongate hemlock scale	<i>Fiorinia externa</i>	7	120	2	Spring control of overwintering stage
Spruce spider mite	<i>Oligonychus ununguis</i>	7	121	RU	Overwintering eggs hatch
Pales weevil	<i>Hylobius pales</i>	7	121	RU	Overwintering adults become active / prevent egg laying
White pine aphid	<i>Cinara strobis</i>	22	91	RU	Spring control of overwintering stage
Pine bark adelgid	<i>Pineus strobis</i>	22	58	2	Spring control of overwintering stage
Spruce bud scale	<i>Physokermes piceae</i>	22	120	2	Spring control of overwintering stage
Juniper scale	<i>Carulaspis juniperi</i>	22	148	2	Spring control of overwintering stage
Eastern spruce gall adelgid	<i>Adelges abietis</i>	25	100	3	spring control of overwintering stage
Northern pine weevil	<i>Pissodes approximatus</i>	25	100	4	1st adults active
Zimmerman pine moth	<i>Dioryctria zimmermani</i>	25	100	3	1st larvae active
Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	25	120	3	Spring control of overwintering stage
White pine weevil	<i>Pissodes strobis</i>	25	220	4	1st adults active
European pine sawfly	<i>Neodiprion sertifer</i>	35	145	1	Spring control of overwintering stage
Fletcher scale	<i>Parthenolecanium fletcheri</i>	35	148	2	Spring control of overwintering stage
European pine shoot moth / borer	<i>Rhyacionia buoiana</i>	50	220	4	1st larvae active
Pine tortoise scale	<i>Toumeyella parvicornis</i>	58	148	2	Crawl activity
Pine bark adelgid	<i>Pineus strobis</i>	58	618	2	Spring control of overwintering stage
Balsam twig aphid	<i>Mindarus abietinus</i>	60	100	4	Egg hatch
Eastern pine shoot borer	<i>Eucosma gloriola</i>	75	200	4	1st adults active
Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	90	180	4	1st adults active - Douglas fir
Balsam twig aphid	<i>Mindarus abietinus</i>	100	150	4	Stem mothers present (control target)
Pine engraver (Ips bark beetle)	<i>Ips spp.</i>	100	150	4	1st adults active
European pine sawfly	<i>Neodiprion sertifer</i>	100	195	4	1st larvae active
Larch casebearer	<i>Coleophora laricella</i>	120	150	4	Egg hatch
Nantucket pine tip moth	<i>Rhyacionia frustrana</i>	121	448	RU	1st generation egg hatch
Gypsy moth	<i>Lymantria dispar</i>	145	200	4	Egg hatch, 1st larvae
Spruce spider mite	<i>Oligonychus ununguis</i>	150	175	4	1st egg hatch
Spruce needleminer	<i>Endothenia albolineana</i>	150	200	4	1st larvae active
Balsam gall midge	<i>Paradiplosis tumifex</i>	150	300	4	Adults laying eggs
Spruce budworm	<i>Choristoneura fumiferana</i>	200	300	4	1st larvae active
Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	200	310	4	1st galls visible - Spruce
Arborvitae leafminer	<i>Argyresthia thuella</i>	245	360	4	Larvae in mines; 1st generation
Eastern spruce gall adelgid	<i>Adelges abietis</i>	250	310	4	Egg hatch, galls begin forming
Pine needle scale	<i>Chionaspis pinifoliae</i>	298	448	4	1st generation egg hatch
Pine root collar weevil	<i>Hylobius radialis</i>	300	350	4	1st adults active
Turpentine beetle	<i>Dendroctonus terebrans</i>	300	350	4	Parent beetles colonizing brood material

WE **R** HERE WHEN YOU NEED US

as of 3/17/21 T. Waller

Rutgers Cooperative Extension - IPM Notes	
2	http://csetompkins.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