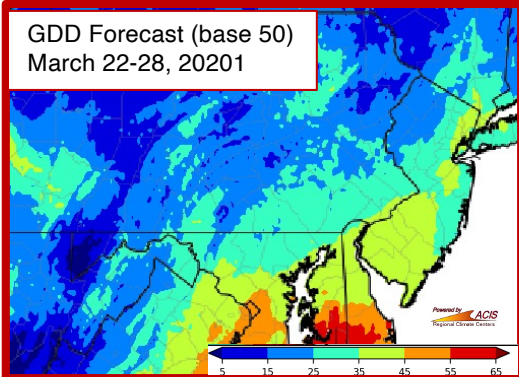


GDD Forecast (base 50)  
March 22-28, 20201



## Pest Scouting Guide: (60-150 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 can be obtained at:  
([USPEST.org/dd/model\\_app](http://USPEST.org/dd/model_app) and <http://newa.cornell.edu/>)

Contact Tim Waller ([twaller@njaes.rutgers.edu](mailto:twaller@njaes.rutgers.edu)) for more information

**Please sign up for the Rutgers Plant and Pest Advisory – LONT Edition for regular updates**

### Boxwood Blight Risk Assessment as of 3/29/2021

Region	Location	CODE	29-Mar	30-Mar	31-Mar	1-Apr	2-Apr
Southern	Upper Deerfield	NJ50	Very Low	Very Low	Very Low	Very Low	Very Low
Central	Howell / Freehold	NJ10	Very Low	Very Low	Very Low	Very Low	Very Low
Northern	High Point	NJ59	Very Low	Very Low	Very Low	Very Low	Very Low

Please check your local boxwood blight risk at ([https://uspest.org/risk/boxwood\\_app](https://uspest.org/risk/boxwood_app))

### Projected GDD50 accumulation as of 3/29/2021

Region	Location	April 1st	May 1st	June 1st	July 1st	August 1st
Southern	Upper Deerfield (NJ50)	75	185	591	1269	2111
Central	Howell / Freehold (NJ10)	61	142	490	1111	1906
Northern	High Point (NJ59)	24	30	242	695	1301

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

### Pest Scouting - Growing Degree-day Ranges

(60-150 GDD<sub>50</sub>)

CROP TYPE	Common name	Scientific name	GDD50 Range		GDD50 Reference	Developmental / Target Stage
			MIN	MAX		
			min: 50 °F	max: 95 °F		
Many	Southern red mite	<i>Oligonychus ilicis</i>	69	157	RU	Spring hatch
Conifer	Eastern pine shoot borer	<i>Eucosma gloriola</i>	75	200	4	1st adults active
Malus, Prunus, many	Eastern tent caterpillar	<i>Malacosoma americanum</i>	90	190	2	Larvae treatment before tents apparent
Many	Gypsy moth	<i>Lymantria dispar</i>	90	448	RU	Larvae treatment (early instars)
Conifer	Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	90	180	4	1st adults active - Douglas fir
Conifer	Balsam twig aphid	<i>Mindarus abietinus</i>	100	150	4	Stem mothers present (control target)
Conifer	Pine engraver (Ips bark beetle)	<i>Ips spp.</i>	100	150	4	1st adults active
Conifer	European pine sawfly	<i>Neodiprion sertifer</i>	100	195	4	1st larvae active
Pieris	Andromeda lace bug	<i>Stephanitis takeyai</i>	115	279	RU	Nymphs (1st generation)
Azalea	Azalea lace bug	<i>Stephanitis pyrioides</i>	118	372	RU	Nymphs (1st generation)
Conifer	Larch casebearer	<i>Coleophora laricella</i>	120	150	4	Egg hatch
Conifer	Nantucket pine tip moth	<i>Rhyacionia frustrana</i>	121	448	RU	1st generation egg hatch
Birch	Birch leafminer	<i>Fenusa pusilla</i>	123	290	RU	Adults - egg laying
Many	Gypsy moth	<i>Lymantria dispar</i>	145	200	4	Egg hatch, 1st larvae
Holly	Holly leaf miner	<i>Phytomyza ilicis</i>	147	265	RU	Adults - egg laying
Many	Cankerworms, inch-worms, loopers	(many)	148	290	2	Larvae treatment
Lilac, ash, privet, many	Lilac / Ash Borer	<i>Podoseia syringae</i>	148	299	2	Adult flight
Yews, Rhododendrons, many	Black Vine Weevil	<i>Otiophynchus sulcatus</i>	148	400	2	Pupation / Adult emergence
Dogwood, many	Dogwood Borer	<i>Synanthedon scitula</i>	148	700	2	Adult activity
Conifer	Spruce spider mite	<i>Oligonychus ununguis</i>	150	175	4	1st egg hatch
Conifer	Spruce needleminer	<i>Endothenia albolineana</i>	150	200	4	1st larvae active
Conifer	Balsam gall midge	<i>Paradiplosis tumifex</i>	150	300	4	Adults laying eggs

WE **R** HERE WHEN YOU NEED US

#### References

as of 3/29/21 T. J. Waller

- RU Rutgers Cooperative Extension - IPM Notes
- <http://ccetompkins.org/resources/using-growing-degree-days-for-insect-management>
- <https://extension.psu.edu/ipm-basics-for-christmas-trees#section-2>
- [https://www.canr.msu.edu/ipm/agriculture/christmas\\_trees/gdd\\_of\\_conifer\\_insects](https://www.canr.msu.edu/ipm/agriculture/christmas_trees/gdd_of_conifer_insects)
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