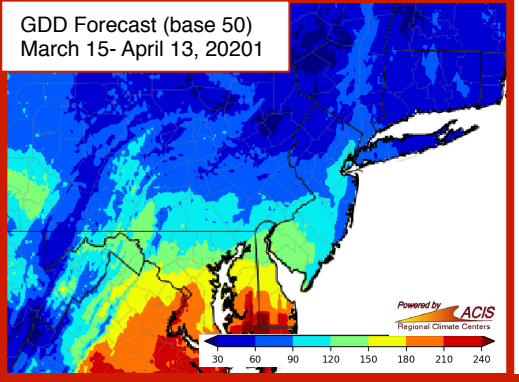

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RU – Plant and Pest Advisory
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Pest Scouting Guide: (150-250 GDD_{50})

Projected GDD50 accumulation as of 4/15/2021

Region	Location	1-Apr	1-May	1-Jun	1-Jul	Aug. 1st
Southern	Upper Deerfield (NJ50)	75	230	636	1314	2156
Central	Howell / Freehold (NJ10)	67	165	513	1135	1929
Northern	High Point (NJ59)	21	56	268	721	1327

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

Boxwood Blight Risk Assessment as of 4/15/2021

Region	Location	CODE	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr
Southern	Upper Deerfield	NJ50	Low	Very Low	Very Low	Very Low	Very Low
Central	Howell / Freehold	NJ10	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**)*

Pest Scouting - Growing Degree-day Ranges (150-250 GDD50)

Crop type	Common name	Scientific name	GDD50 Range MIN (min: 50 °F)	GDD50 Range MAX (max: 95 °F)	GDD50 Reference	Developmental / Target Stage
Malus, Prunus, many	Eastern tent caterpillar	*Malacosoma americanum*	90	190	2	Larvae treatment before tents apparent (near 150-GDD50)
Elm, Service berry	Woolly elm aphid	*Eriosoma americana*	121	246	2 (6)	Control target
Conifer	Hemlock woolly adelgid	*Adelges tsugae*	150	150	RU	Eggs and 10% hatch
Conifer	Spruce spider mite	*Oligonychus ununguis*	150	175	4	1st egg hatch
Conifer	Spruce needleminer	*Endothenia albolineana*	150	200	4	1st larvae active
Conifer	Balsam gall midge	*Paradiplosis tumifex*	150	300	4	Adults laying eggs
Witchhazel, River birch	Spiny witchhazel gall aphid	*Hamamelistes spinosus*	171	-	6	Control target
Birch	Birch leafminer	*Fenusa pusilla*	190	290	RU	Larvae (1st generation)
Conifer	Spruce spider mite	*Oligonychus ununguis*	190	363	RU	Immatures/Adults
Honeylocust	Honeylocust pod gall midge	*Dasineura gleditchiae*	192	229	RU	Larvae
Holly	Holly leafminer	*Phytomyza ilicis*	192	290	RU	Egg hatch
Holly	*Native holly leafminer	*Phytomyza ilicicola*	192	298	2	Egg hatch
Rhododendron	Rhododendron borer	*Synanthedon rhododendri*	192	298	2	Typical treatment window
Larch	Larch sawfly	*Pristophora erichsonii*	192	299	2	Typical treatment window
Andromeda	Andromeda lacebug	*Stephanitis takeyai*	192	303	RU	Adults
Rhododendron	Rhododendron gall midge	*Clinodiplosis rhododendri*	192	363	RU	Larvae
Willows, Cottonwood, Poplar	Imported willow leaf beetle	*Plagiodera versicolora*	192	448	RU	Larvae/Adults
Privet	Privet thrips	*Dendrothrips ornatus*	192	618	2	Typical treatment window
Lilac, ash, privet, many	Lilac / Ash Borer	*Podosesia syringae*	200	299	RU	Adults - 1st Treatment
Spruce	Spruce budworm	*Choristoneura fumiferana*	200	300	5	Larvae
Elm	Elm leafminer	*Fenusa ulmi*	215	240	5	Adult emergence
Wild and cultivated roses	Roseslug sawfly	*Endelomyia aethiops*	230	-	6	Egg hatch / early instars
Deciduous, many	Hawthorn lacebug	*Corythucha cydoniae*	239	363	RU	Nymphs/Adults
Conifer	Arborvitae leafminer	*Argyresthia thuiella*	245	360	RU	Larvae Treatments
Prunus	American plum borer	*Euzophera semifuneralis*	245	440	5	Adult flight, egg laying
Boxwood	Boxwood mites	*Eurytetranychus buxi*	245	600	RU	All Stages
Lilac	Lilac leafminer	*Caloptilia syringella*	246	363	5	Larvae Treatments
Holly	Holly leafminer	*Phytomyza ilicis*	246	448	RU	Larvae Treatment
Yew	Taxus mealybug	*Dysmicoccus wistariae*	246	618	RU	Adults/Crawlers
Conifer	Pine sawflies (Red-headed)	*Neodiprion lecontei*	246	1388	RU	Larvae (1st generation)
Boxwood	Boxwood leafminer	*Monarthropalpusi flavus*	249	-	6	Adult emergence
Conifer	Eastern spruce gall adelgid	*Adelges abietis*	250	310	5	egg hatch, galls begin forming (not a control target)

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 =
(Max + Min temp.) / 2 - 50 *(min. temp. threshold)*

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References

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