

Reference



Disease Threat Temperatures

For each disease, we have calculated a threat temperature that predicts when it will become active. Once the threat temperature is reached for curatively controlled diseases, you should begin monitoring for signs of early symptoms. In the case of preventively controlled pests, a preventive action such as pesticide application or cultural practice is usually called for.

Disease	Threat temp (F)	Threat temp (C)
Anthracnose	>65	>18
Bacterial wilt	>60	>16
Bipolaris leaf spot	>70	>21
Brown patch (Rhizoctonia, Waitea)	>60	>16
Curvularia blight	>70	>21
Cyanobacteria (algae)	>55	>13
Decline (bermuda, kikuyu)	>75	>24
Dollar spot	>65	>18
Fairy ring	>65	>18

Disease	Threat temp (F)	Threat temp (C)
Gray leaf spot	>68	>20
Pythium blight	>70	>21
Rapid blight	>45	>7
Red thread	>65	>18
Rust	>55	>13
Snow mold	<62	<17
Southern blight	>70	>21
Spring dead spot	>65 and <80	>18 and <27
Summer patch	>65	>18
Take-all patch	>65	>18

Sample Disease IPM Planner for College Park, MD

	Rate	Units	Area	32 F (0%)		35 F (0%)				44 F (6%)				54 F (36%)				64 F (90%)				72 F (92%)				76 F (71%)				75 F (79%)				69 F (100%)				57 F (56%)				48 F (12%)				37 F (1%)					
				JAN				FEB				MAR				APR				MAY				JUN				JUL				AUG				SEP				OCT				NOV				DEC			
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Cool season turf stress				[Yellow cells]																																															
Aeration: 5/8" hollow core, 2" spacing				[Green cells]																																															
Venting 1/4" solid 1" spacing				[Green cells]																																															
D1 Anthracnose				[Red cells]																																															
D2 Brown patch, Brown ring patch				[Red cells]																																															
D3 Dollar spot				[Red cells]																																															
D4 Fairy ring				[Red cells]																																															
D5 Pythium blight				[Red cells]																																															
D6 Snow molds				[Red cells]																																															
D7 Summer patch				[Red cells]																																															
Light sand topdressing D1	100	lb	1000 ft ²	[Light blue cells]																																															
DMI: D1, 2, 3, 4, 6, 7	1/2 max			[Light blue cells]																																															
Chlorothalonil: D1, 2, 3, 6	Low			[Light blue cells]																																															
Qol: D1, 2, 4, 6, 7	1/2 max			[Light blue cells]																																															
Phosphite: D1, D5	max			[Light blue cells]																																															
Benzimidazole: D1, 2, 3, 7	1/2 max			[Light blue cells]																																															
Dicarboximide D2, D3, D6	max			[Light blue cells]																																															

Climate Appraisal: College Park, MD

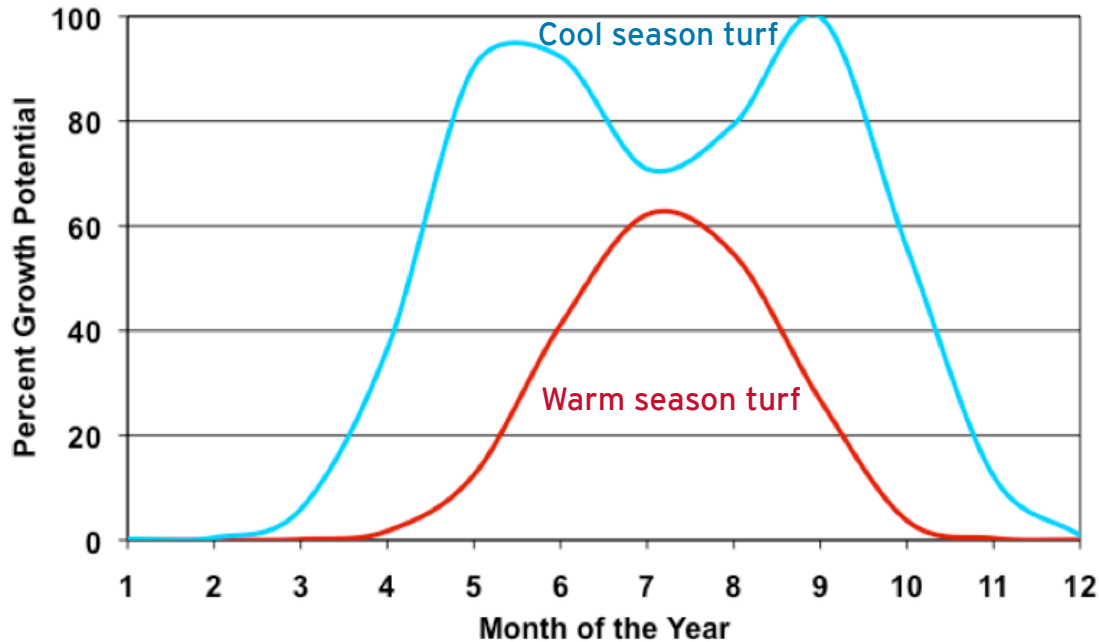
To prepare a Climate Appraisal for your location, see www.paceturf.org/public/ipm_planning_tools

Location: College Park, MD

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg T (F)	32.0	35.1	44.2	53.8	63.5	72.0	76.3	74.8	68.5	57.2	47.5	37.0
Rainfall (in)	3.0	3.0	3.8	3.1	3.7	3.6	3.7	4.2	3.5	3.0	3.2	3.4

Cool Season Grass Maximum N/month lb/1000 sq ft = 0.70

	Cool GP	0	0	6	36	90	92	71	79	100	56	12	1	Total
N lb/1000 sq ft	0.0	0.0	0.0	0.3	0.6	0.6	0.5	0.6	0.7	0.4	0.1	0.0	0.0	3.8
K lb/1000 sq ft	0.000	0.001	0.016	0.102	0.253	0.258	0.198	0.222	0.280	0.156	0.034	0.002	0.002	1.52
P lb/1000 sq ft	0.000	0.000	0.004	0.026	0.063	0.065	0.050	0.056	0.070	0.039	0.009	0.001	0.001	0.38
Ca lb/1000 sq ft	0.000	0.000	0.003	0.020	0.051	0.052	0.040	0.044	0.056	0.031	0.007	0.000	0.000	0.30
Mg lb/1000 sq ft	0.000	0.000	0.002	0.013	0.032	0.032	0.025	0.028	0.035	0.020	0.004	0.000	0.000	0.19
S lb/1000 sq ft	0.000	0.000	0.002	0.015	0.038	0.039	0.030	0.033	0.042	0.023	0.005	0.000	0.000	0.23
Fe lb/1000 sq ft	0.000	0.000	0.000	0.001	0.003	0.003	0.002	0.002	0.003	0.002	0.000	0.000	0.000	0.015
Mn lb/1000 sq ft	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.006



Growth Potential Curves: College Park, MD

Are you a PACE Turf member? If not, please consider signing up for our award-winning information service at:
paceturf.org/members/sign_up