Thomas Pihl

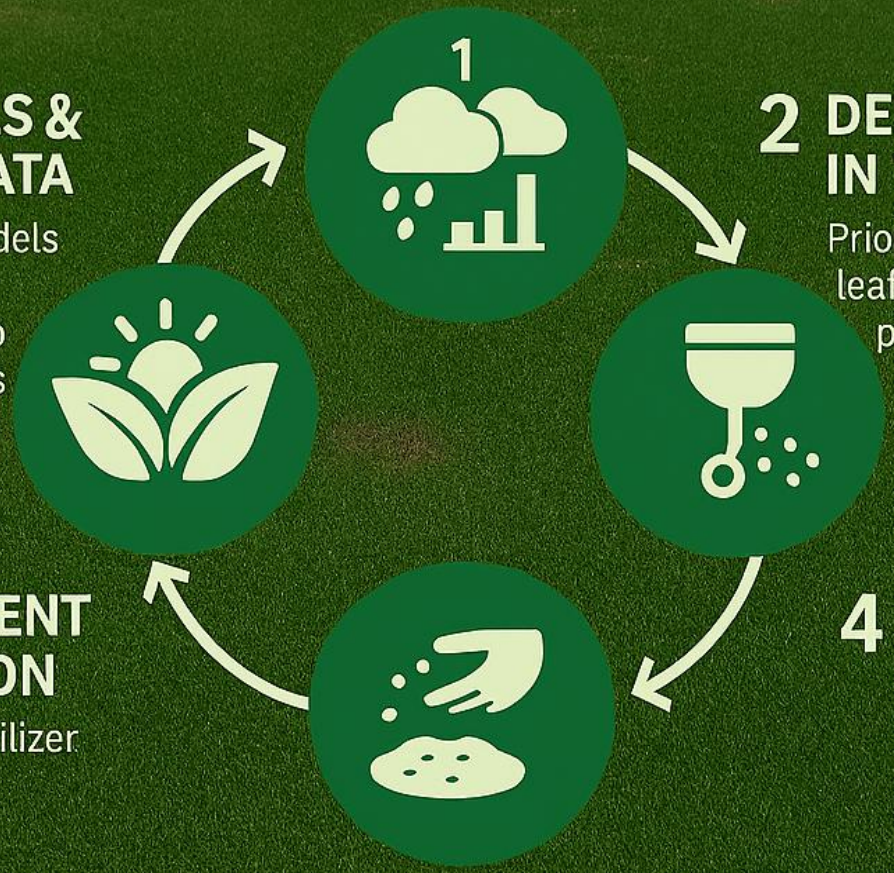
Furesø Golf Club

STERF

- 27 holes + Par 3
- 1,800 members
- Member-owned club
- Approx. 65,000 rounds/year
- Pesticide-free course
- Host of DPWT in 2025



CONTROL OF DOLLAR SPOT



1 RISK MODELS & WEATHER DATA

Use of disease models and local weather stations/sensors to predict risk periods

2 DEW REMOVAL IN THE MORNING

Prioritized effort to reduce leaf wethess and disease pressure

3 LOW, FREQUENT FERTILIZATION

Small doses of fertilizer to strengthen turf resistance

4 HAND-SEEDING OF PATCHES

Rapid reestablishment of affected areas

5 24/7 MONITORING & DATA COLLECTION

Constant awareness and quick reaction

Practical measures and observations

- **Practical measures**
- Prioritize specific greens for dew removal
- Timing of dew removal (shorter period of wet)
- Water greens at night as a short-term solution.
- Dew-control products may help
- Try to delay the perfect conditions for the disease to develop
- Overseed and hand-seed

- **Field observations**
- Grass species and cultivars differ considerably
- Much less dollar spot in mixtures containing *Agrostis canina* and red fescue
- Drought stress triggers disease, most visibly on green approaches
- Data, innovation og timing

Grass selection




My experience comes from
a pesticide-free course

Overnight Leaf Wetness Report - EMNode: Furesø Golfklub, July 2025

Day	T mean (overnight)	RH mean (overnight)	Dew Point Mean (overnight)	Dew Point Delta Mean (overnight)	Low Dew Point Delta (overnight)	Low Dew Point Delta Timestamp (overnight)	Leaf Wetness mean (overnight)	Leaf Wetness Time (overnight)	S-K Probability
	°C	%	°C	°C	°C			minutes	%
1	11.1	88	9.6	1.6	0.8	04:15	1.9	8	21.5
2	15.9	77	12.3	3.5	2.1	00:15	2.1	5	22.3
3	19.3	89	17.7	1.6	1.1	02:00	14.3	538	18.7
4	12.1	77	8.4	3.7	1.6	04:30	[illegible]	[illegible]	18.7
5	14.3	88	12.3	2.0	1.4	23:30	15.0	600	22.8
6	15.3	92	14.1	1.3	1.0	04:00	15.0	675	27.2
7	16.3	91	15.0	1.3	1.0	04:30	[illegible]	318	[illegible]
8	14.3	87	12.5	1.8	1.1	04:30	1.5	0	30.4
9	12.3	92	11.2	1.0	0.6	03:45	0.7	4	33.5
10	14.4	86	12.2	2.1	1.4	00:00	0.8	1	29.4
11	15.0	89	13.5	1.5	1.0	04:30	2.5	36	[illegible]
12	16.1	83	12.7	3.3	1.0	21:00	11.1	505	29.4
13	15.4	87	13.2	2.2	1.5	22:00	15.0	645	29.7
14	17.0	81	13.9	3.1	2.0	04:30	4.2	151	30.1
15	15.3	92	14.2	1.0	0.6	04:00	1.1	0	36.5
16	16.3	92	15.2	1.2	1.0	03:15	10.5	426	38.1
17	17.0	94	16.2	0.9	0.6	02:30	15.0	598	40.9
18	17.9	91	16.6	1.4	0.6	04:45	13.4	631	46.0
19	17.0	90	15.7	1.3	0.8	04:00	1.9	2	46.7
20	17.2	87	15.4	1.8	0.8	04:30	2.0	1	41.9
21	18.9	81	15.8	3.1	2.0	03:00	3.8	143	42.1
22	17.6	94	16.7	0.9	0.8	00:30	14.6	664	43.2
23	17.5	90	15.9	1.6	1.3	04:30	15.0	735	43.0
24	17.6	92	16.5	1.1	0.8	00:15	1.1	0	47.5
25	18.4	95	17.6	0.8	0.6	02:45	12.2	609	52.4
26	18.0	82	14.9	3.2	2.4	22:30	0.3	0	48.2
27	17.0	88	15.3	1.8	1.1	04:00	0.6	0	45.4
28	15.1	88	13.4	1.7	1.1	05:00	1.7	1	40.0
29	15.3	78	11.8	3.6	2.5	03:45	0.5	0	31.4
30	13.7	82	10.8	2.8	1.8	04:30	1.7	0	26.1
31	15.1	90	13.6	1.6	1.0	04:15	14.8	474	25.7
Overall	-	88	-	-	-	-	6.6	7,770	-

Disease Reporting Furesø Golfklub

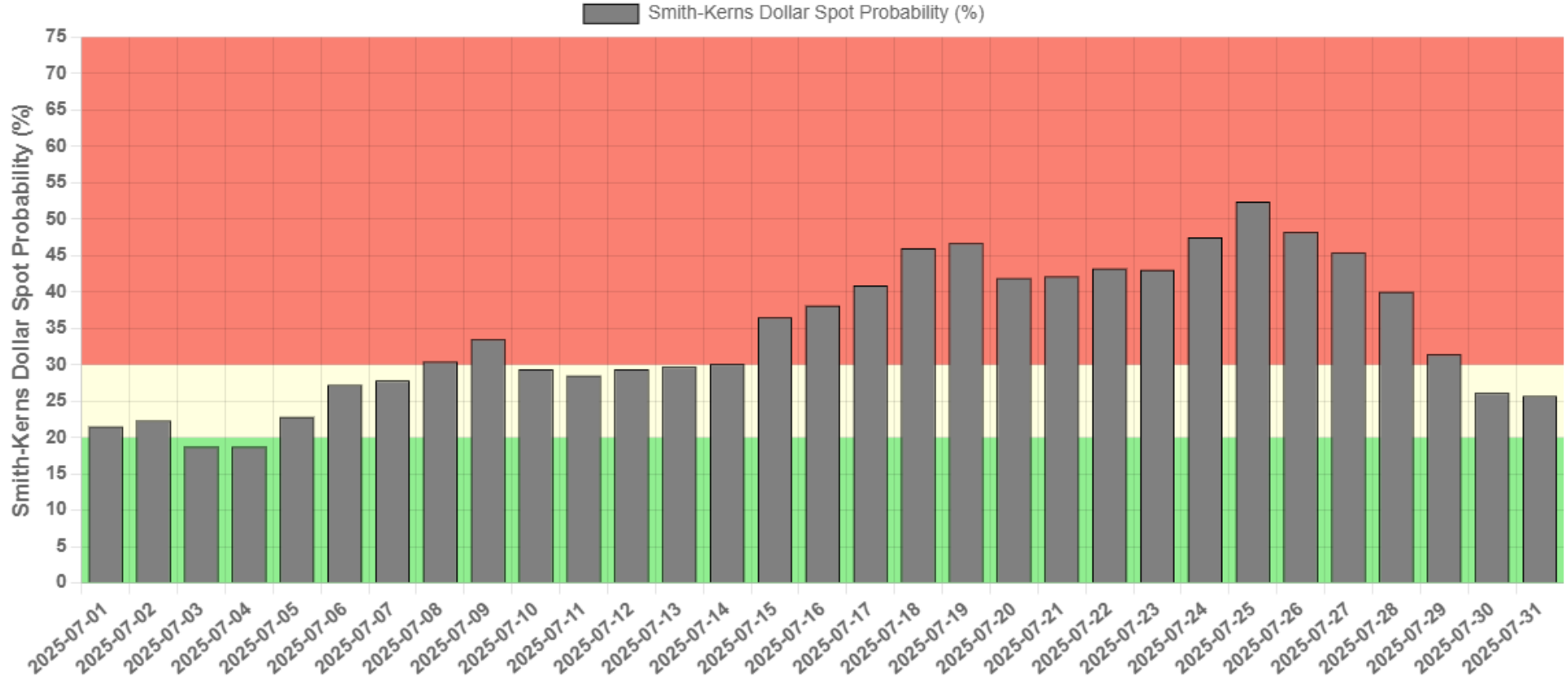
Anthracnose Severity Index (ASI) | Smith-Kerns Dollar Spot Probability | Microdochium nivale Probability

Month 2025-07

Download

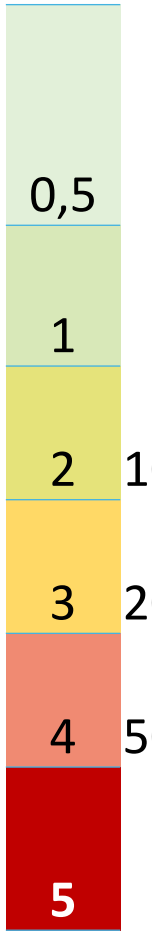
Smith-Kerns Dollar Spot Probability

(< 20% = Low disease risk; 20% - 30% = Moderate disease risk; > 30% = High disease risk)



Overnight Leaf Wetness Report : Furesø Golfklub, September 2026

Day	T mean (overnight) (°C)	RH mean (overnight) (%)	Dew Point Mean (overnight) (°C)	Dew Point Delta Mean (overnight) (°C)	Low Dew Point Delta (overnight) (°C)	Low Dew Point Delta Timestamp (overnight)	Leaf Wetness mean (overnight)	Leaf Wetness Time (overnight) (minutes)	S-K Probability (%)	On course registrations	Am. Sul.	Iron sul.	Mg.sul.	S	Si	Wet.	Ryder	Irrigation / rain overnight
1	14,5	93,0	13,4	1,1	0,6	04:00	12,1	811	40,8	1	1 kg/ha	0,2 kg/ha		1,48 kg/ha	0,9 kg/ha	0,5 L/ha	0,5L/ha	
2	14,0	90,0	12,4	1,6	0,9	03:45	6,3	431	41,1	0								Dew irrigation
3	14,4	93,0	13,3	1,1	0,8	03:45	4,3	224	42,2	0								Rain
4	15,4	90,0	13,8	1,6	1,1	02:30	4,9	268	40,1	0								Rain
5	13,9	89,0	12,1	1,8	0,9	20:00	3,0	87	35,7	0								
6	14,6	78,0	10,9	3,7	3,0	06:15	0,4	4	30,8	0								
7	14,2	82,0	11,4	2,9	2,1	04:00	0,7	0	26,6	0								
8	17,4	80,0	14,0	3,5	1,6	06:15	0,4	0	25,1	0,5								Rain
9	13,7	94,0	12,8	0,9	0,8	03:00	6,8	203	22,5	0								
10	12,6	82,0	9,7	2,9	1,9	00:45	0,3	0	21,2	0								
11	9,7	88,0	8,1	1,6	0,6	06:30	0,3	0	20,1	0,5	2,1Kg/ha	1,95 kg/ha		5,18kg/ha	0,9kg/ha			Plant irrigation
12	14,9	80,0	11,6	3,3	1,6	06:00	2,0	104	22,4	0								
13	14,6	90,0	13,1	1,5	0,6	05:45	8,3	447	21,8	0								
14	11,0	93,0	10,0	1,0	0,6	03:00	0,5	0	21,5	1								
15	10,4	92,0	9,4	1,0	0,5	05:15	1,5	0	27,7	0								Dew irrigation
16	16,2	91,0	14,8	1,5	0,9	06:00	3,7	200	30,4	1								
17	11,6	88,0	9,9	1,7	0,9	03:45	9,2	592	30,2	0								Dew irrigation
18	13,7	92,0	12,4	1,3	0,8	06:15	4,7	232	27,5	0								Rain
19	13,4	89,0	11,7	1,8	1,1	22:15	11,6	747	31,6	0								
20	15,3	90,0	13,7	1,6	0,9	06:30	3,2	206	27,2	0								Rain
21	13,1	80,0	9,7	3,4	2,6	18:30	0,8	30	24,1	0								
22	10,4	90,0	9,0	1,4	0,6	05:30	7,3	468	20,6	0,5	1kg/ha	1,95kg/ha		3,98kg/ha	0,9kg/ha	0,5L/ha	0,5L/ha	
23	10,7	91,0	9,5	1,2	0,8	22:45	2,8	16	21,6	0								
24	12,9	93,0	11,9	1,0	0,6	06:45	8,0	464	21,6	0								
25	11,9	94,0	11,0	0,9	0,5	01:15	3,7	165	22,3	0								
26	11,9	90,0	10,4	1,5	0,9	02:45	1,6	75	23,7	0								
27	8,0	93,0	7,1	0,9	0,4	06:00	1,9	25	25,1	0								
28	14,8	81,0	11,8	3,0	1,8	21:45	0,3	0	23,2	0								
29	13,9	93,0	13,0	0,9	0,6	02:45	8,0	546	25,4	0								
30	15,5	85,0	13,1	2,4	2,0	05:30	1,7	68	24,2	0								
Overall		**88**					**4,0**	**6.413**										



Very few active spots on green. Activity on forgreen or tee

5 or less active spots on greens

10-20 active spots on a green

20-50 active spots on a green

50-100 active spots on a green

More than 100 active spots on a green







Roadmap

01

Fundamentals first

Soil, drainage and the basics done right

02

Grass selection

The right species for the site and climate

03

Long term basic greenkeeping

Consistent, sustainable daily practice

04

Data collections

Collect, evaluate and adjust continuously

05

Research and education

Knowledge sharing (experience group)

Adapt research and continue to learn

06

Open mindset

Willing to adapt and keep learning

Takeaways

Grass selection

- Be aware of the differences between species and varieties

Dew control

- Prioritise the worst-affected greens first
- Use weather data and prediction models
- Dew irrigation and dew-removal products

Data

- Collect data to learn more

