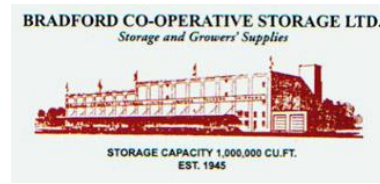




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Ontario Crops Research Centre – Bradford (Muck Station) Grand Bend IPM Report 2021

Forecasting, degree day and weather information as of May 28

Disease Forecasting

BOTCAST (Botrytis leaf blight)	DOWNCAST (Onion downy mildew)	BSP Cast (Stemphylium leaf blight)	White Rot on onions	Sclerotinia (White Mold) on Carrot	TOMCAST (General conditions for disease)
LOW RISK	LOW RISK	LOW RISK	LOW RISK	LOW RISK	MODERATE RISK

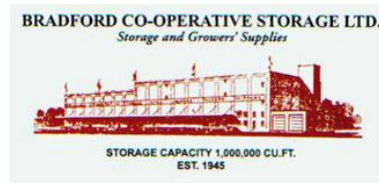
Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	13	-	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCast (Stemphylium leaf blight)	Conditions not favourable	-	Low risk
White Rot on Onions	16	-	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	23	-	Moderate risk



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Standard Growing Degree Day Model (Starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	327	-

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	419	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	1 st generation activity
ONION MAGGOT (DD base 4)	372	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	1 st generation activity
CARROT WEEVIL (DD base 7)	250	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Actively laying eggs (higher pressure in early carrots)
ASTER LEAFHOPPER (DD base 9)	190	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	120	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	286	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Emergence soon
SEEDCORN MAGGOT (DD base 4)	372	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	1 st generation activity

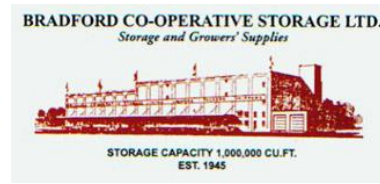
Daily Weather

Date (May)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
1	15.2	-2.4	0.0
2	22.4	9.2	0.0
3	16.6	9.8	1.4
4	13.1	5.2	4.2
5	7.9	3.5	0.5
6	8.7	-2.0	0.0





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Date (May)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
7	11.3	3.5	8.3
8	7.0	-0.1	0.5
9	11.1	-1.2	0.0
10	7.2	3.5	0.0
11	7.3	3.6	0.0
12	11.9	0.3	0.2
13	15.2	-0.6	0.0
14	15.7	0.4	0.0
15	21.2	4.1	0.0
16	18.4	7.4	0.0
17	26.6	8.6	14.8
18	26.6	5.0	0.0
19	31.3	7.5	0.0
20	30.7	16.8	0.0
21	33.1	15.1	0.0
22	27.7	18.2	4.2
23	24.6	12.6	0.0
24	26.0	15.1	0.0
25	31.2	17.8	0.0
26	25.7	11.0	5.0
27	13.7	6.8	0.0

Soil Temperature (°C): 5cm: 19.4

