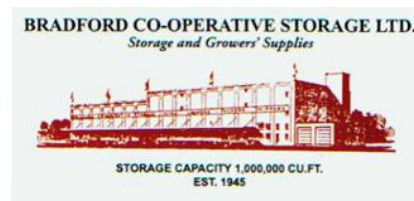




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# Grand Bend IPM 2020

## Forecasting/weather information as of June 2

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

## Daily Weather and Soil Temperatures:

Date (May 2020)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
1	8.2	2.9	0.0
2	19.1	2.3	0.0
3	17.3	4.5	0.0
4	5.7	-0.8	0.0
5	7.5	-1.1	0.0
6	9.8	-2.1	0.0
7	8.9	-2.7	0.0
8	3.8	-0.2	0.0
9	5.0	-3.8	0.0
10	7.5	-4.4	0.0
11	4.5	0.6	0.0
12	7.8	-4.1	0.0
13	12.4	-4.8	0.0
14	14.9	5.6	4.4
15	19.3	7.4	5.4
16	16.0	6.5	0.0
17	16.4	9.1	9.2
18	14.4	11.4	24.6
19	20.4	12.1	0.0
20	21.5	9.3	0.0
21	24.6	4.6	0.0
22	22.3	8.1	0.0
23	26.1	10.8	0.0
24	30.4	15.3	5.4
25	32.6	16.6	0.0





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Date (May 2020)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
26	34.4	16.3	0.0
27	30.6	18.2	0.0
28	25.4	19.8	2.6
29	25.0	13.6	4.0
30	14.8	9.4	0.0
31	16.3	7.2	0.0
1	24.9	7.5	0.0

Soil Temperature (°C): 5cm: 19.7

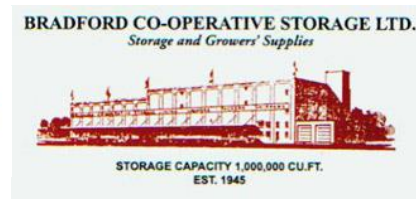
### Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	12		Weather has been favourable for development of botrytis, but risk is low unless disease is seen.
DOWNCAST (Onion downy mildew)	No sporulation-infection period		Downy mildew requires very specific weather conditions that have not occurred.
BSPCast (Stemphylium leaf blight)	Low risk		Risk is currently low. Weather conditions are not favourable for disease development.
White Rot on Onions	2		Risk is low until DSI reaches at least 35.
Sclerotinia (White Mold) on Carrot	0		No risk until carrot canopy is fully closed.
TOMCAST (General conditions for disease)	11		Conditions could be favourable for potential disease development.





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Standard Growing Degree Day Model (Starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
<b>Growing degree days (DD base 5)</b>	<b>283</b>	

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>359</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	First generation adults active
<b>ONION MAGGOT</b> (DD base 4)	<b>319</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	First generation adults active
<b>CARROT WEEVIL</b> (DD base 7)	<b>222</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Weevils are in the egg laying period
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>168</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Nymph emergence
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>98</b>	Activity can start at 40 DD		Active
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>251</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	Nearing first generation emergence
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>319</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	First generation adults active

