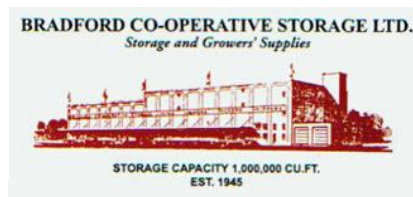




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Grand Bend IPM 2020

Forecasting/weather information as of June 11

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	HIGH RISK

Daily Weather and Soil Temperatures:

Date (June 2020)	Max temperature	Min temperature	Rain (mm)
5	28.5	15.8	0.0
6	22.0	12.5	0.0
7	18.1	8.7	0.0
8	25.3	6.5	0.0
9	34.2	12.5	0.0
10	31.8	17.0	33.6

Soil Temperature (°C): 5cm: 24.2

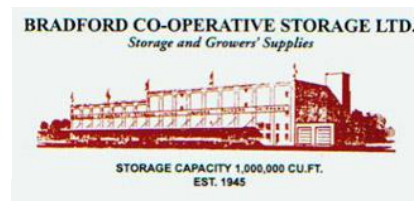
Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	18	0	Weather has been favourable for development of botrytis, but risk is low with no inoculum.
DOWNCAST (Onion downy mildew)	No sporulation-infection period	0	Downy mildew requires very specific weather conditions that have not occurred.
BSPCast (Stemphylium leaf blight)	No sporulation-infection period	0	Risk is currently low. Weather conditions are not favourable for disease development.
White Rot on Onions	0	0	Low risk.
Sclerotinia (White Mold) on Carrot	0	0	No risk until carrot canopy is fully closed.
TOMCAST (General conditions for disease)	53	+13	Conditions are 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
Growing degree days (DD base 5)	422	83

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	516	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	1st generation adults active
ONION MAGGOT (DD base 4)	467	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	1st generation active
CARROT WEEVIL (DD base 7)	343	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Weevils are laying eggs
ASTER LEAFHOPPER (DD base 9)	271	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Nymphs active
TARNISHED PLANT BUG (DD base 12)	174	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	381	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	1st generation
SEEDCORN MAGGOT (DD base 4)	467	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	1 st generation

