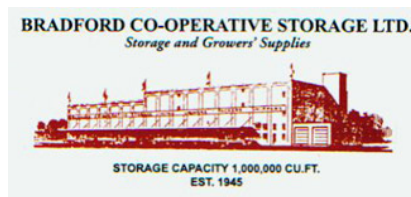




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# Keswick IPM 2019

## Forecasting/weather information as of 23 August

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)	BREMCAST (Lettuce downy mildew)
LOW RISK	LOW RISK	MODERATE RISK	LOW RISK	LOW RISK	MODERATE RISK	MODERATE RISK

### Daily Weather and Soil Temperatures:

Date (August 2019)	Max temperature	Min temperature	Rain (mm)
16	27.6	12.7	0.2
17	25.6	15.7	11.6
18	28.6	14.2	0.2
19	26.6	16.9	5.2
20	29.5	10.1	0.0
21	29.7	18.6	3.6
22	23.0	14.1	0.0
23	20.6	7.5	0.0

Soil Temperature (°C): 5cm:

### Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	0	Low risk of botrytis
DOWNCAST (Onion downy mildew)	1 sporulation-infection period	Little activity	3 sporulation-infection periods needed for risk, low risk
BSPCast (Stemphylium leaf blight)	5 days of good conditions for stemphylium	Some activity	Good conditions for stemphylium this week, moderate risk
White Rot on Onions	0	0	Soil too warm for white rot
Sclerotinia (White Mold) on Carrot	0	0	Soil too dry for white mold
TOMCAST (General conditions for disease)	144	+20	Favourable weather for leaf blights
BREMCAST (Lettuce downy mildew)	4 sporulation-infection periods	Some activity	Possibility of lettuce downy mildew, moderate risk



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### Standard Growing Degree Day Model (1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
<b>Growing degree days (DD base 5)</b>	<b>1339</b>	110

### Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>1569</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> generation
<b>ONION MAGGOT</b> (DD base 4)	<b>1454</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> generation
<b>CARROT WEEVIL</b> (DD base 7)	<b>1117</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying complete
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>904</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>620</b>	Activity can start at 40 DD		Active
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1226</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> generation
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>1454</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	Well past 2 <sup>nd</sup> generation



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