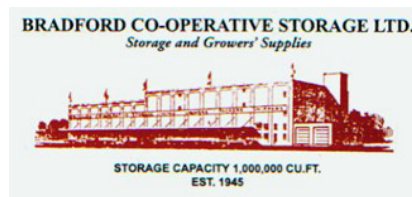




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# Keswick IPM 2019

## Forecasting/weather information as of 30 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	LOW RISK	LOW RISK	LOW RISK	MODERATE RISK	HIGH RISK

### Daily Weather and Soil Temperatures:

Date (August, 2019)	Max temperature	Min temperature	Rain (mm)
24	22.4	5.6	0.0
25	25.8	7.3	0.0
26	25.0	11.8	0.0
27	20.9	15.8	7.0
28	25.4	17.1	2.0
29	24.4	15.1	0.0
30	21.1	14.5	1.6

Soil Temperature (°C): 5cm: 18.1

### 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)	Favourable conditions on 1/7 days	Little activity	Low risk, conditions are not very conducive for infection
White Rot on Onions	7	+7	Low risk
Sclerotinia (White Mold) on Carrot	0	0	Soil too dry for white mold
TOMCAST (General conditions for disease)	158	+14	Favourable weather for leaf blights
BREMCAST (Lettuce downy mildew)	7 sporulation-infection periods	Increased activity	Favourable conditions for lettuce downy mildew, high 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>	1431	92

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>1675</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>1553</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>1194</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>968</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>663</b>	Activity can start at 40 DD		Active
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1311</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>1553</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