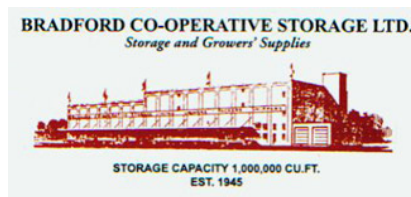




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# Keswick Forecasting and Weather 2019 – 12 July

## Disease Forecasting at a Glance:

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	LOW RISK	LOW RISK

## Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0		Risk is low
DOWNCAST (Onion downy mildew)	No sporulation infection periods		Weather not conducive to downy mildew
BSPCast (Stemphylium leaf blight)	Weather favourable on 1/7 days		In general, leaf wetness is limiting stemphylium
White Rot on Onions	0		Soil too warm for new white rot infection
Sclerotinia (White Mold) on Carrot	0		Risk is low until carrot canopy closes
TOMCAST (General conditions for disease)	21	+21	Weather generally favourable for leaf blights
BREMCAST (Lettuce downy mildew)	No sporulation infection periods		Risk is low

## Daily Weather and Soil Temperatures:

Date (July 2019)	Max temperature	Min temperature	Rain (mm)
5	33.1	20.3	17.0
6	29.1	21.2	24.0
7	25.1	14.3	24.0
8	26.1	10.3	24.0
9	29.2	10.5	24.0
10	31.5	11.4	24.0
11	28.6	16.5	24.0
12	18.1	13.4	7.0

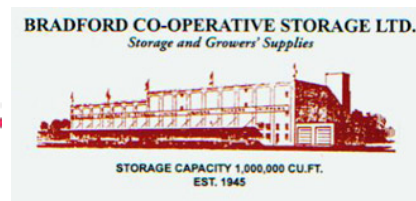
Soil Temperature: 5cm: 24.6 C



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Standard Growing Degree Day Model (start date):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
<b>Growing degree days (DD base 5)</b>	<b>668</b>	

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>814</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	In between generations
<b>ONION MAGGOT</b> (DD base 4)	<b>741</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	In between generations
<b>CARROT WEEVIL</b> (DD base 7)	<b>529</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying complete, risk is low
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>400</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Adults emerging
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>243</b>	Activity can start at 40 DD		Active
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>597</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	In between generations
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>741</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> generation active