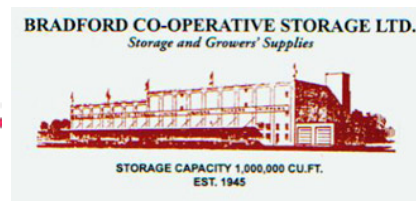




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# Muck Crops Research Station IPM 2019

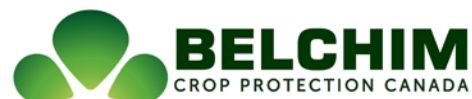
Forecasting/weather information as of 9 August

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
<b>Growing degree days</b> (DD base 5)	1304	49

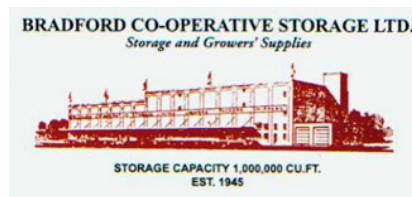
Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	1544	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	In 2 <sup>nd</sup> generation
<b>ONION MAGGOT</b> (DD base 4)	1422	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	In 2 <sup>nd</sup> generation
<b>CARROT WEEVIL</b> (DD base 7)	1075	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	2 <sup>nd</sup> generation activity starting soon
<b>ASTER LEAFHOPPER</b> (DD base 9)	867	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
<b>TARNISHED PLANT BUG</b> (DD base 12)	598	Activity can start at 40 DD		Active
<b>CABBAGE MAGGOT</b> (DD base 6)	1188	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)	1422	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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### Disease Forecasting Models:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	72		Low risk as no inoculum is present
DOWNCAST (Onion downy mildew)	One sporulation-infection period	Little activity	Risk is low until we get three sporulation-infection periods in a row
BSPCast (Stemphylium leaf blight)	Conditions were favourable on 2 of 3 days	Some activity	Somewhat good conditions, risk is moderate
White Rot on Onions	8		No risk until conditions are favourable for 35 days
Sclerotinia (White Mold) on Carrot	0		Soil is too dry for white mold
TOMCAST (General conditions for disease)	109	+6	Conditions are favourable for leaf diseases
BREMCAST (Lettuce downy mildew)	3 sporulation-infection periods	High activity	Risk is high

### Daily Temperature and Rain

Date (August 2019)	Max temperature	Min temperature	Rain (mm)
6	27.3	15.0	5.2
7	28.7	16.3	0.0
8	26.8	13.2	0.2

Soil Temperature (°C): 5cm:22.5                      10cm: 21.7                      20 cm:22.6

