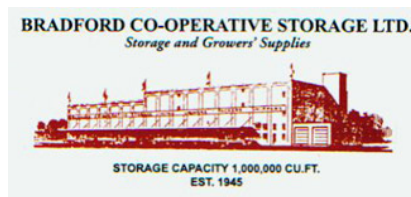




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# Muck Crops Research Station IPM 2019

Forecasting/weather information as of 6 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)	1255	62

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	1489	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)	1370	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)	1032	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	2 <sup>nd</sup> generation activity could be starting
<b>ASTER LEAFHOPPER</b> (DD base 9)	830	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
<b>TARNISHED PLANT BUG</b> (DD base 12)	571	Activity can start at 40 DD		Active
<b>CABBAGE MAGGOT</b> (DD base 6)	1142	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)	1370	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	





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### Disease Forecasting Models:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	89	+5	Risk is still low, no disease has been seen in the marsh
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	No activity	Risk is low, temperatures too high for downy mildew
BSPCast (Stemphylium leaf blight)	Ideal weather on 4/4 days	High activity	Weather is ideal for stemphylium risk is high
White Rot on Onions	6	+5	Soils starting to cool, white rot is trying to start. No risk until were at least 8 DSI
Sclerotinia (White Mold) on Carrot	0	0	Soil is too dry for white mold to develop
TOMCAST (General conditions for disease)	119	+9	Overall, good conditions for leaf blights to develop
BREMCAST (Lettuce downy mildew)	No sporulation-infection periods	Reduced activity	Risk is low

### Daily Temperature and Rain

Date (August 2019)	Max temperature	Min temperature	Rain (mm)
2	29.3	10.5	0.0
3	30.9	10.5	0.0
4	27.7	14.0	0.0
5	30.8	10.7	0.0

Soil Temperature (°C): 5cm:24.3      10cm: 25.7      20 cm: 24.4

