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# Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2024

Forecasting, weather and degree day information as of 11 September 2024

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)	<b>1914</b>	70

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>2233</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 activity
<b>CARROT WEEVIL</b> (DD base 7)	<b>1608</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period has ended
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>1312</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>891</b>	Activity can start at 40 DD		Activity





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## Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
Sclerotinia (White Mold) on Carrot	0	-	Low risk. Canopies have closed.
TOMCAST (General conditions for disease)	256	+9	Moderate risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 7/7 days	Risk maintained	High risk

## Daily Weather

Date (Sept)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
4	26.3	7.7	0.0
5	26.3	7.6	0.0
6	24.6	13.6	1.0
7	13.9	6.8	1.2
8	18.3	4.3	0.0
9	20.9	11.7	3.6
10	24.7	6.8	0.2

Soil Temperature (°C): 5cm: 16.4

