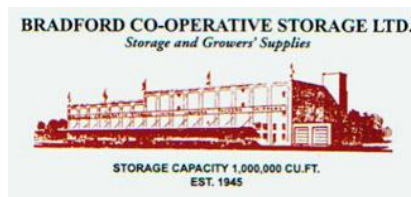




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Keswick IPM 2019 – 19 July

Forecasting Highlights:

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

Forecasting/weather information as of 19 July

Daily Weather and Soil Temperatures:

Date (Month, year)	Max temperature	Min temperature	Rain (mm)
12	24.3	13.4	24.0
13	27.9	12.7	24.0
14	24.8	15.6	24.0
15	27.9	8.9	24.0
16	31.0	17.3	24.0
17	29.6	21.4	24.0
18	30.2	18.8	24.0
19	22.8	20.5	7.0

Soil Temperature: 5cm: 26.0C

Disease Forecasting:

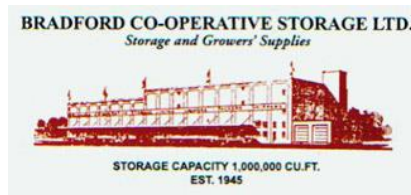
Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	0	Risk is low
DOWNCAST (Onion downy mildew)	2 sporulation-infection periods	Minimal activity	Three sporulation-infection periods in a row needed for disease, risk is low particularly due to the high temps reached this week
BSPCast (Stemphylium leaf blight)	Good weather on 1/7 days	Minimal activity	Risk is low
White Rot on Onions	0	0	Soil too warm for disease development
Sclerotinia (White Mold) on Carrot	0	0	No risk until canopy closes
TOMCAST (General conditions for disease)	39	+18	Favourable weather for leaf diseases



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Disease model	Cumulative DSI	Change since last report	Comments
BREMCAST (Lettuce downy mildew)	No sporulation-infection periods	0	Risk is low

Standard Growing Degree Day Model (start date):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	790	122

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	950	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Between generations
ONION MAGGOT (DD base 4)	870	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Between generations
CARROT WEEVIL (DD base 7)	638	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying complete, risk is low
ASTER LEAFHOPPER (DD base 9)	483	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Adults emerging
TARNISHED PLANT BUG (DD base 12)	316	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	712	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation approaching
SEEDCORN MAGGOT (DD base 4)	870	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	2 nd generation active



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