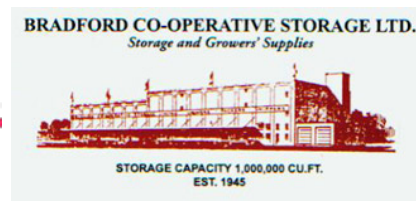




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Keswick IPM 2019

Forecasting/weather information as of 16 August

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	HIGH RISK	LOW RISK

Daily Weather and Soil Temperatures:

Date (August, 2019)	Max temperature	Min temperature	Rain (mm)
10	23.5	12.9	0.0
11	28.5	10.7	0.0
12	27.2	13.8	0.0
13	27.1	13.3	0.0
14	23.7	15.5	0.0
15	23.8	11.2	0.4
16	21.8	12.7	0.2

Soil Temperature (°C): 5cm: 18.9

Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	No activity	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	No activity	Low risk
BSPCast (Stemphylium leaf blight)	Conditions have not been conducive for development over the past 7 days	Lower activity	Low risk
White Rot on Onions	0	No activity	Low risk, soil too warm
Sclerotinia (White Mold) on Carrot	0	No activity	Low risk
TOMCAST (General conditions for disease)	126	+24	Favourable weather for leaf blights
BREMCAST (Lettuce downy mildew)	No sporulation-infection periods	No activity	Low risk, too warm for development



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Standard Growing Degree Day Model (1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1229	97

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1445	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation
ONION MAGGOT (DD base 4)	1337	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation
CARROT WEEVIL (DD base 7)	1020	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying complete
ASTER LEAFHOPPER (DD base 9)	822	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
TARNISHED PLANT BUG (DD base 12)	559	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	1123	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation
SEEDCORN MAGGOT (DD base 4)	1337	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	Well past 2 nd generation



We create chemistry