Seasonal Primary Pest Occurrence in Michigan Hopyards																												
	D-4-	April							May		June				July				August				September					
	Date	7	14	21	23	27	1	8	15	22	29	7	17	21	28	4	11	18	25	1	8	15	22	29	5	12	19	26
	DD Base 50 ¹	6	20	43	46	60	71	96	180	270	320	500	645	731	832	947	1099	1262	1459	1620	1790	1909	2024	2147	2276	2350	2400	2476
	C				В	Bine emergence							Sidearm formation				ı				Cone development and maturation				1			
	Growth stage ²	Dormant						Vegetative					owth				Burr stage							Harvest				
Pest	Pest lifestage																											
Downy	Systemic infection	Begin treatment at 6"																										
mildew	Secondary infection	Continue treatments on a 7-14 day schedule up until harvest																										
Two-spotted	Overwintering females	Monitor for activity as te							ps warm																			
spider mite	Eggs and motiles									Monitor populations of eggs and motiles weekly, treat as needed																		
Potato	Arrive on spring storms	Scout carefully following spring storms																										
leafhopper	Eggs, nymphs and adults	First generation egg laying Eggs, n											s, nymp	symphs and adults may be present at this time, treat as needed														
Rose chafer	Adult beetles	Beetles present, treat as needed																										
Japanese beetle	Adult beetles	Beetles present, treat as needed																										
Powdery	Initial infection	Flag shoots emerge, mechanilcally prune to remove																										
mildew*	Secondary infection							Seco	ondary	disea	se cycle, i	favored	by rapid	plant	growth	Secondary disease cycle, favored by rapid plant growth, mild temperatures and high humidity. Treat with fungicide as needed.												

^{1.} Degree day accumulation based on 5-year average at the Freemont Enviroweather Station.

^{2.} Growth stage is highly dependent on location, annual weather fluctuations and cultivar, this table is meant as a guide to estimate pest activity in Michigan.

^{*}Powdery mildew is not a primary pest for growers in Michigan, but is a critical pest in greenhouses and other production regions and so has been included in this table.