

Occurrence of downy mildew on spinach varieties in plantings where the disease developed at farms in the northeast, 2014 - 2017.

Number refers to planting. R=resistant (no or much fewer symptoms than other varieties); H=highly (used when difference was observed). Last row has race when identified for pathogen in the planting. Multiple races have been found which explains variation in observed susceptibility of some varieties. Information on disease occurrence is from the grower.

Variety	Race resistance	Partial resistance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
Acadia	1 - 13, 15, 16					DM worse																				
Avon	1, 2										DM					DM										
Bloomsdale	none																									
Butterflay				DM																						
Caladonia	1 - 14																DM									
Carmel	1 - 11, 13, 15	12, 14			HR																DM (think this variety)					
Corvair	1 - 11, 13		DM	DM (1st)						DM		DM	DM		DM						DM					
Emperor	1 - 10				DM										DM											
Escalade	1 - 14, 16				HR	DM		DM (1st)						less			DM									
Flamingo	1 - 11																									
Galaxy																					DM					
Gazelle	1 - 13		DM worse		DM worse										R			DM								
Giant Winter	none				DM																					
Kolibri	1 - 9, 12 - 15	10, 11																			R					
Kookaburra	1 - 13, 15								DM																	
Pigeon	1 - 13, 15				DM									worse												
Red Kitten	1 - 13, 15			DM											R											
Reflect	1 - 11		R		DM																					
Regiment	1 - 7				DM worse			DM																		
Renegade	1 - 7			DM				DM																		
Seaside	1 - 12																									
Space	1, 2, 3, 5, 6, 8, 11, 12				R		DM				R				R											
Spargo	1 - 4				DM																					
SV3580 VC	1 - 13				DM worse									R												
Swan	1 - 11, 13				DM																					
Toucan	1 - 13				DM																					
Verdil				DM																						
Violin	1 - 12, 14				DM																					
Whale	1-5, 7, 8, 9, 12, 13, 14	6, 10, 11			R																					
Woodpecker	1 - 15		DM less																							
Race identified:			12				novel				14				novel				12				14			
Variety pathogen obtained from:			Corvair				Escalade				Kookaburra				Corvair				Corvair							