

Seasonal Timing of Diseases - Fruit

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Pest Name	Host Crops	Causal Organism	Mode of Carryover	Mode of Transfer	Seedlings	Roots	Branches / Canes	Foliage	Flowers	Fruit	Timing	Control	Storage
Entomosporium Leaf & Berry Spot	Saskatoon berry	Entomosporium mespili	Unknown - lesions on infected plant parts; in debris	Spores	-	-	Y - insignif	Y	Y	Y	Foliar infection can occur throughout summer; Fruit infection from flowering to harvest	Protective sprays	N
Mummyberry	Saskatoon berry	Monilinia amelanchiaris	Mummified fruit	Spores	1	-	1	Some	Y	Y	May to June (during bloom)	Remove inoculum; protective sprays	N
Saskatoon berry / Juniper Rust	Saskatoon berry (juniper = secondary host)	Gymnosporangium mespili	Spore stages on alternate host (juniper)	Spores from junipers; spores on Saskatoon berry	ı	1	ı	Y	1	Y	June to August	Apply protective sprays; control on junipers	N
Blackleaf / Witches' Broom	Saskatoon berry	Apiosporina collinsii	Infected plant material (wild, etc.)	Spores	1	-	Υ	Y	1	Indirect - Y	Infection of new growth in spring	Pruning in dormant season	N
Fireblight	All plants within Rosaceae (saskatoon berry, apple, etc.), raspberries	Erwinia amylovora	Branch cankers	Insects, rain / water splash, physical transfer (pruning)	-	-	Y	Y	Y	N - indirect	Throughout growing season once active growth commences	Prune out diseased material	N
Botrytis grey mold	Strawberry, raspberry, etc.	Botrytis cinerea	Infected plant material; sclerotia; spores	Spores	Y	-	Y	Y	Y	Y	Can occur at any point in growing season	Remove debris; Protective sprays	Y
Powdery Mildew	Strawberry, Saskatoon berry, raspberry, black currants	Spaerotheca macularis f.sp fragariae; Podosphaera clandestina;	Cleistothecia (sexual spores)	Windblown spores	-	1	Y	Y	1	Y	Spring or fall	Ensure air movement; fungicide application	N
Pythium root rots	Strawberry, raspberry, etc.	Pythium spp.	Soil borne mycelium, sporangia, oospores	Germinating oospores	Υ	Y	-	Y - seedling - indirect	-	-	Early season or whenever young plants are present	good drainage; seed treatments	N





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Cane Blight	Caneberry crops (raspberry, etc.)	Leptosphaeria coniothyrium	Lesions on infected canes	Spores	-	-	Y	Y	Y - indirect	N - indirect	Mid-late season; depends on environment conditions	Protective sprays	N
Spur Blight	Caneberry crops (raspberry, etc.)	Didymella applanta	Lesions on infected canes	Spores	-	-	Y	Y	Y- indirect	N - indirect	Mid-late season; depends on environment conditions	Protective sprays	N
Common Leaf Spot	Strawberry	Mycosporaella fragariae	Infected plant material (in field, propagative material)	Spores - rain or mechanical transfer	-	-	-	Y	-	Y - black seed	Early season or late summer	Clean plants; adequate air flow; protective sprays	N
Black Knot	Prunus spp. (cherries, chokecherries, etc.)	Apiosporina morbosa	Galls	Spores produced on infected wood	1	-	Y	indirect	-	-	Infection occurs in early spring	Pruning in dormant season	N
Brown Rot / Cherry Blossom Blight	Prunus spp. (cherries, chokecherries, etc.)	Monilinia spp.	Mummified fruit; infected plant parts	Spores disseminated by wind, rain, insects	-	-	Y - twigs	-	Y	Y	During bloom & fruiting stages	Remove inoculum; protective sprays	N
Cytospora canker	Saskatoon berry; other crops (dif spp.)	Cytospora leucostoma	Cankers in infected tissues	Via wounds	-	-	Y	Y - indirect	-	-	Can occur at any point in growing season	Remove infected tissues	N
Root rots	Raspberry, etc.	Fusarium, Rhizoctonia, etc.	Soil borne	Soil to plant	Y	Y	-	N - indirect	-	-	Depends on the weather	Clean plants; good drainage	N
Black Root Rot	Strawberry	Rhizoctonia, Pythium, etc.	Soil borne; infected plant stock	Soil to plant	Y	Y	•	N - indirect	-	-	Depends on the weather	Clean plants; good drainage	N
Verticillium Wilt	Strawberry, raspberry, other fruit	Verticillium albo-atrum; V. dahliae	Micro-sclerotia or mycelium on crop debris or in soil	Spores or spores in soil	Y	Y	Y - indirect	Y - indirect	-	-	Dependent on weather & crop stage	Seed, soil treatment; clean plants	N

