

**Table 1. Pacific Northwest Cherry Research Topics
Summary (2018)**

AgWeatherNet: bud hardiness
AgWeatherNet: models and decision assist systems
AgWeatherNet: weather forecasting
Bacterial canker
Bird damage
BMSB: Detection and control
BMSB: IPM strategies
Brown rot
Crop load management
High density systems: Automation
High density systems: Rootstock improvement
Insect pest detection & management: Export issues
Nutritional benefits of fresh and processed products
Post harvest fruit quality: Definition of fruit quality
Post harvest fruit quality: Impact of heat stress
Post harvest fruit quality: Minimization of splitting/pitting
Post harvest fruit quality: Novel packaging to improve shipping quality
Post harvest fruit quality: Preservation of green stems
Powdery mildew: Inoculum testing/strategic control methods
Powdery mildew: Organic control strategies
Powdery mildew: New chemistries
Powdery mildew: Resistance management
Scion breeding program: Post harvest evaluation
Scion breeding program: Powdery mildew resistance
Scion breeding program: New scion and rootstock cultivars for PNW: regional testing
Soil health & water management: Improved tools for vegetative and reproductive growth
Soil health & water management: Soil/water/plant interactions, especially N & Ca
SWD: Control strategies including potentially certified organic strategies
SWD: Predicting location and intensity of infestations
SWD: Resistance management
Virus identification and elimination
Weed control
Western cherry fruit fly

**Table 2. Cherry Research Priorities
Washington (2016)**

<i>Number of Respondents</i>	18
Ranking (3=high, 2=med, 1=low)	
ISSUE	Mean
Powdery mildew: New chemistries	2.9
Powdery mildew: Inoculum testing & strategic control methods	2.8
SWD: Control strategies	2.7
Powdery mildew: Resistance management	2.6
SWD: Predicting location and intensity of infestations	2.6
SWD: Resistance management	2.6
Virus identification and elimination	2.6
New scion and rootstock cultivars for PNW: regional testing	2.5
Scion breeding program: Powdery mildew resistance	2.5
Insect pest detection & management: Export issues	2.3
Post harvest fruit quality: Novel packaging to improve shipping quality	2.3
Soil health & water management: Soil/water/plant interactions, especially N & Ca	2.3
High density systems and automation	2.2
Post harvest fruit quality: Impact of heat stress	2.2
Post harvest fruit quality: Minimization of splitting/pitting	2.2
AgWeatherNet: bud hardiness	2.1
AgWeatherNet: models and decision assist systems	2.1
Crop load management	2.1
Scion breeding program: Post harvest evaluation	2.1
Soil health & water management: Improved tools for vegetative and reproductive growth	2.1
BMSB: Detection and control	2.0
Post harvest fruit quality: Preservation of green stems	2.0
Rootstock improvement	2.0
AgWeatherNet: weather forecasting	1.9
BMSB: IPM strategies	1.9
Bacterial canker	1.8
Nutritional benefits of fresh and processed products	1.8
Post harvest fruit quality: Definition of fruit quality	1.8
Brown rot	1.6
Bird damage	1.3
Weed control	1.3

**Table 3. Cherry Research Priorities
Oregon (2016)**

<i>Number of Respondents</i>	<i>13</i>
Mean Ranking (3=high, 2=med, 1=low)	
Issue	Mean
Powdery mildew: New chemistries	2.6
Bacterial canker	2.5
New scion and rootstock cultivars for PNW: regional testing	2.5
Post harvest fruit quality: Novel packaging to improve shipping quality	2.5
Powdery mildew: Resistance management	2.5
SWD: Control strategies	2.5
Post harvest fruit quality: Minimization of splitting/pitting	2.4
Soil health & water management: Soil/water/plant interactions, especially N & Ca	2.4
SWD: Resistance management	2.4
Insect pest detection & management: Export issues	2.3
Powdery mildew: Inoculum testing & strategic control methods	2.3
AgWeatherNet: bud hardiness	2.2
Post harvest fruit quality: Impact of heat stress	2.2
Post harvest fruit quality: Preservation of green stems	2.2
Soil health & water management: Improved tools for vegetative and reproductive growth	2.2
SWD: Predicting location and intensity of infestations	2.2
Nutritional benefits of fresh and processed products	2.0
Post harvest fruit quality: Definition of fruit quality	1.9
Scion breeding program: Powdery mildew resistance	1.9
Weed control	1.9
AgWeatherNet: models and decision assist systems	1.8
BMSB: Detection and control	1.8
BMSB: IPM strategies	1.8
Scion breeding program: Post harvest evaluation	1.8
AgWeatherNet: weather forecasting	1.7
High density systems and automation	1.7
Rootstock improvement	1.7
Crop load management	1.6
Brown rot	1.5
Virus identification and elimination	1.5
Bird damage	1.4