2021 GROWTH STAGES - NW Michigan Horticultural Research Center

Date	Time	Growing Degree Days - Base 42	Bartlett Pear	Potomac Pear	Gala	HoneyCrisp	Montmorency	Balaton	Ulster	Gold	Emperor Francis	Riesling
3/25/21	8:30 AM	79	Dormant	Dormant	Early Silver Tip	Early Silver Tip	Early Swollen Bud	Early Side Green	Swollen Bud	Early Side Green	Swollen Bud	Dormant
3/31/21	11:30 AM	89	Dormant	Dormant	Silver Tip	Silver Tip	Early Swollen Bud	Side Green	Early Side Green	Side Green	Early Side Green	Dormant
4/5/21	10:00 AM	106	Bud Swell	Bud Swell	Green Tip	Early Green Tip	Bud Swell	Green Tip	Side Green	Green Tip	Side Green	Scale Crack
4/7/21	9:00 AM	146	Bud Burst	Bud Burst	1/2" Green	1/4" Green	Green Tip	Green Tip	Green Tip	Green Tip	Green Tip	Scale Crack
4/9/21	8:00 AM	185	Late Bud Burst	Late Bud Burst	Tight Cluster	Tight Cluster	Green Tip	Bud Burst	Early Bud Burst	Bud Burst	Early Bud Burst	Scale Crack
4/12/21	8:00 AM	217	Ear. Green Cluster	Ear. Green Cluster	Tight Cluster	Tight Cluster	Green Tip	Late Bud Burst	Ear. Tight Cluster	Ear. Tight Cluster	Ear. Tight Cluster	Scale Crack
4/16/21	8:30 AM	228	Ear. Green Cluster	Ear. Green Cluster	Tight Cluster	Tight Cluster	Green Tip	Late Bud Burst	Tight Cluster	Tight Cluster	Tight Cluster	Scale Crack
4/19/21	9:00 AM	236	Green Cluster	Green Cluster	Tight Cluster	Tight Cluster	Green Tip	Ear. Tight Cluster	Ear. White Bud	Tight Cluster	Ear. White Bud	Scale Crack
4/26/21	8:00 AM	254	Green Cluster	Green Cluster	Tight Cluster	Tight Cluster	Early Bud Burst	Ear. Tight Cluster	First Bloom	Early White Bud	First Bloom	Scale Crack
4/28/21	8:30 AM	258	Green Cluster	Green Cluster	Tight Cluster	Early Pink	Bud Burst	Tight Cluster	10% Bloom	White Bud	50% Bloom	Scale Crack
5/3/21	12:00 PM	311	White Bud	White Bud	Early Pink	Pink	Early White Bud	White Bud	90% Bloom	75% Bloom	90% Bloom	Scale Crack
5/7/21	10:30 AM	321	1st Bloom	30% Bloom	Pink	Pink	1st Bloom	1st Bloom	Early Petal Fall	Full Bloom	Early Petal Fall	Early Bud Swell
5/10/21	11:00 AM	329	20% Bloom	50% Bloom	Open Cluster	Open Cluster	25% Bloom	50% Bloom	Petal Fall	Early Petal Fall	Petal Fall	Early Bud Swell
5/14/21	8:30 AM	355	Full Bloom	Full Bloom	Early King Bloom	Early King Bloom	85% Bloom	Full Bloom	Petal Fall	Petal Fall	Petal Fall	Early Bud Swell
5/17/21	7:00 AM	403	Petal Fall	Petal fall	40% Bloom	60% Bloom	Early Petal Fall	Petal Fall	Lt. P. F. (fruit in shuck)	Late Petal Fall	Lt. P. F. (fruit in shuck)	Late Bud Swell
5/21/21	1:30 PM	510	5 mm Fruit	7 mm Fruit	Petal Fall	Petal Fall	In the Shuck	In the Shuck	9 mm Fruit	8 mm Fruit	9 mm Fruit	1" - 3" Shoots
5/24/21	12:00 PM	590	10 mm Fruit	11 mm Fruit	8 mm Fruit	8 mm Fruit	8 mm Fruit	8 mm Fruit	11 mm Fruit	10 mm Fruit	11 mm Fruit	1" - 3" Shoots
6/1/21	9:30 AM	704	13 mm Fruit	14 mm Fruit	11 mm Fruit	12 mm Fruit	11 mm Fruit	11 mm Fruit	12 mm Fruit	12 mm Fruit	13 mm Fruit	4" - 6" Shoots
6/7/21	8:00 AM	904	18 mm Fruit	19 mm Fruit	16 mm Fruit	18 mm Fruit	13 mm Fruit	12 mm Fruit	13 mm Fruit	11 mm Fruit	13 mm Fruit	10" - 16" Shoots
6/14/21	4:00 PM	1120	20 mm Fruit	22 mm Fruit	23 mm Fruit	23 mm Fruit	13 mm Fruit	12 mm Fruit	15 mm Fruit	12 mm Fruit	13 mm Fruit	10" - 16" Shoots
6/21/21	10:00 AM	1275	24 mm Fruit	28 mm Fruit	30 mm Fruit	29 mm Fruit	17 mm Fruit	13 mm Fruit	21 mm Fruit	15 mm Fruit	19 mm Fruit	1st Bloom
7/6/21	1:30 PM	1660	30 mm Fruit	33 mm Fruit	42 mm Fruit	41 mm Fruit	23 mm Fruit	21 mm Fruit	Harvested	20 mm Fruit	Harvested	Buckshot Berries
7/26/21	12:30 PM	2190	38 mm Fruit	40 mm Fruit	55 mm Fruit	52 mm Fruit	Harvested	Harvested	--	Harvested	--	Berry Touch