2022 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
4/13/22	2:30 PM	52	Dormant	Dormant	Dormant	Dormant	Early Swollen Bud	Early Swollen Bud	Early Swollen Bud	Early Side Green	Early Swollen Bud	Dormant
4/25/22	10:00 AM	92	Early Bud Swell	Early Bud Swell	1/4" Green	Green Tip	Side Green	Green Tip	Green Tip	Green Tip	Side Green	Scale Crack
5/2/22	3:30 PM	133	Bud Swell	Bud Swell	1/2" Green	Green Tip	Side Green	Bud Burst	Green Tip	Green Tip	Side Green	Scale Crack
5/9/22	1:30 PM	205	Open Cluster	Green Cluster	Tight Cluster	Ear. Tight Cluster	Early Bud Burst	Tight Cluster	Early White Bud	Early White Bud	Early White Bud	Late Scale Crack
5/10/22	1:00 PM	225	Open Cluster	Open Cluster	Tight Cluster	Tight Cluster	Bud Burst	Open Cluster	1st Bloom	Early White Bud	1st Bloom	Late Scale Crack
5/11/22	1:00 PM	250	Open Cluster	Open Cluster	Tight Cluster	Early King Pink	Late Bud Burst	Early White Bud	75% Bloom	20% Bloom	70% Bloom	1st Early Bud Swell
5/12/22	1:30 PM	283	Popcorn	White Bud	Early Pink	Pink	1st Bloom	1st Bloom	Full Bloom	95% Bloom	Full Bloom	Early Bud Swell
5/13/22	12:00 PM	313	75% Bloom	75% Bloom	Open Cluster	Pink	50% Bloom	98% Bloom	Full Bloom	Full Bloom	Full Bloom	Late Bud Swell
5/16/22	9:00 AM	390	Full Bloom	Full Bloom	85% Bloom	75% Bloom	Early Petal Fall	Early Petal Fall	Petal Fall	Petal Fall	Petal Fall	Bud Burst
5/18/22	11:30 AM	410	Early Petal Fall	Early Petal Fall	95% Bloom	95% Bloom	Petal Fall	Petal Fall	Late Petal Fall	Late Petal Fall	Late Petal Fall	Late Bud Burst
5/23/22	3:00 PM	482	Petal Fall	Petal Fall	Petal Fall	Petal Fall	In the Shuck	In the Shuck	Late Shuck Split	Shuck Split	7 mm Fruit	1" - 3" Shoots
5/31/22	3:30 PM	649	10 mm Fruit	9 mm Fruit	8 mm Fruit	10 mm Fruit	10 mm Fruit	10 mm Fruit	13 mm Fruit	11 mm Fruit	12 mm Fruit	4" - 8" Shoots
6/6/22	1:00 PM	750	13 mm Fruit	14 mm Fruit	14 mm Fruit	16 mm Fruit	12 mm Fruit	12 mm Fruit	14 mm Fruit	12 mm Fruit	13 mm Fruit	4" - 8" Shoots
6/13/22	3:30 PM	881	16 mm Fruit	18 mm Fruit	19 mm Fruit	21 mm Fruit	13 mm Fruit	13 mm Fruit	15 mm Fruit	13 mm Fruit	14 mm Fruit	10" - 16" Shoots
6/20/22	3:00 PM	1065	19 mm Fruit	21 mm Fruit	23 mm Fruit	24.5 mm Fruit	15 mm Fruit	13.5 mm Fruit	15.5 mm Fruit	13.5 mm Fruit	15.5 mm Fruit	1st Bloom
6/27/22	3:00 PM	1265	22 mm Fruit	24 mm Fruit	27 mm Fruit	30 mm Fruit	19 mm Fruit	14 mm Fruit	20 mm Fruit	14.5 mm Fruit	18 mm Fruit	50% Bloom
7/4/22	9:00 AM	1430	27 mm Fruit	27.5 mm Fruit	34 mm Fruit	36 mm Fruit	21 mm Fruit	18 mm Fruit	23.5 mm Fruit	18 mm Fruit	20 mm Fruit	Late Bloom
7/11/22	1:00 PM	1640	30 mm Fruit	31 mm Fruit	39.5 mm Fruit	43 mm Fruit	21 mm Fruit	20.5 mm Fruit	25.5 mm Fruit	20 mm Fruit	23.5 mm Fruit	Buckshot Berries
7/25/22	8:00 AM	2050	38 mm Fruit	38 mm Fruit	50 mm Fruit	52 mm Fruit	Harvested on 7/22	20.5 mm Fruit	Harvested on 7/14	Harvested on 7/20	Harvested on 7/15	Green Fruit