2019 GROWTH STAGES - NW Michigan Horticultural Research Center

Traverse City, MI

Date	Time	Growing Degree Days - Base 42	Bartlett Pear	Potomac Pear	Mac	Gala	Red Delicious	HoneyCrisp	Montmorency	Balaton	Ulster	Gold	Emperor Francis	Riesling	58.900.12 Plum	Apricot
4/25/19	12:00 PM	105	Bud Swell	Bud Swell	--	Green Tip	--	Early Green Tip	Side Green	--	Green Tip	Green Tip	Green Tip	Scale Crack	--	--
4/29/19	4:30 PM	120	Bud Swell	Bud Swell	--	Green Tip	--	Green Tip	Side Green	Side Green	Green Tip	Late Green Tip	Green Tip	Scale Crack	--	--
5/6/19	2:00 PM	148	Bud Burst	Bud Burst	--	1/2" Green	--	1/4" Green	Green Tip	Bud Burst	Bud Burst	Bud Burst	Bud Burst	Late Scale Crack	--	--
5/13/19	11:00 AM	185	Ear. Green Cluster	Ear. Green Cluster	--	Tight Cluster	--	Tight Cluster	Bud Burst	Bud Burst	Ear. White Bud	Ear. White Bud	Ear. White Bud	Late Scale Crack	--	--
5/15/19	3:00 PM	210	Green Cluster	Green Cluster	--	Tight Cluster	--	Tight Cluster	Bud Burst	Tight Cluster	First Bloom	White Bud	First Bloom	Late Scale Crack	--	--
5/17/19	4:00 PM	238	Green Cluster	Ear. White Bud	--	Tight Cluster	--	Tight Cluster	Bud Burst	Tight Cluster	60% Bloom	50% Bloom	75% Bloom	1st Early Bud Swell	--	--
5/20/19	10:00 AM	256	Ear. White Bud	Ear. White Bud	--	Tight Cluster	--	Tight Cluster	Late Bud Burst	Ear. White Bud	95% Bloom	90% Bloom	Full Bloom	Late Bud Swell	--	--
5/23/19	12:00 PM	295	Popcorn	Popcorn	--	Tight Cluster	--	Early Pink	15% Bloom	First Bloom	Early Petal Fall	Early Petal Fall	Early Petal Fall	Late Bud Swell	--	--
5/25/19	5:00 PM	340			--		--		Full Bloom	Full Bloom					--	--
5/28/19	3:30 PM	378	Full Bloom	Full Bloom	--	Early King Bloom	--	King Bloom	Petal Fall	Petal Fall	In the Shuck	In the Shuck	In the Shuck	Bud Burst	--	--
5/31/19	4:40 PM	435	Late Petal Fall	Petal Fall	--	40% Bloom	--	75% Bloom	Petal Fall	Late Petal Fall	Late Shuck Split	Shuck Split	Late Shuck Split	1" - 3" Shoots	--	--
6/3/19	4:00 PM	465	8 mm Fruit	Late Petal Fall	--	75% Bloom	--	95% Bloom	Late Petal Fall	In the Shuck	7 mm Fruit	7 mm Fruit	7 mm Fruit	1" - 3" Shoots	--	--
6/7/19	4:00 PM	542	10 mm Fruit	7 mm Fruit	--	Petal Fall	--	Petal Fall	Shuck Split	Shuck Split	8 mm Fruit	9 mm Fruit	9 mm Fruit	1" - 3' Shoots	--	--
6/10/19	11:30 AM	610	10 mm Fruit	8 mm Fruit	--	6 mm Fruit	--	7 mm Fruit	9 mm Fruit	9 mm Fruit	11 mm Fruit	10 mm Fruit	12 mm Fruit	4" - 8" Shoots	--	--
6/17/19	12:45 PM	720	12 mm Fruit	13 mm Fruit	--	8 mm Fruit	--	10 mm Fruit	12 mm Fruit	11 mm Fruit	13 mm Fruit	11 mm Fruit	13 mm Fruit	4" - 8" Shoots	--	--
6/24/19	4:00 PM	883	17 mm Fruit	19 mm Fruit	--	17 mm Fruit	--	20 mm Fruit	13 mm Fruit	12 mm Fruit	14 mm Fruit	12 mm Fruit	14 mm Fruit	10" - 16" Shoots	--	--
7/1/19	5:00 PM	1084	19 mm Fruit	22 mm Fruit	--	27 mm Fruit	--	30 mm Fruit	14 mm Fruit	12 mm Fruit	15 mm Fruit	13 mm Fruit	15 mm Fruit	10" - 16" Shoots	--	--
7/15/19	3:30 PM	1475	26 mm Fruit	31 mm Fruit	--	39 mm Fruit	--	42 mm Fruit	21 mm Fruit	17 mm Fruit	24 mm Fruit	20 mm Fruit	24 mm Fruit	10" - 16" Shoots	--	--
7/29/19	9:00 AM	1987	31 mm Fruit	39 mm Fruit	--	49 mm Fruit	--	52 mm Fruit	Harvested Today	20 mm Fruit	Harvested	Harvested	Harvested	Large Buckshot Berries	--	--
8/12/19	1:00 PM	2265	38 mm Fruit	44 mm Fruit	--	61 mm Fruit	--	61 mm Fruit	--	--	--	--	--	Berry Touch	--	--