

## 2017 GROWTH STAGES - NW Michigan Horticultural Research Center Traverse City, MI

Date	Time	Growing Degree Days - Base 42	Barlett Pear	Potomac Pear	Mac	Gala	Red Delicious	HoneyCrisp	Montmorency	Balaton	Hedelfingen	Gold	Napoleon	Riesling	58-900-12 Plum	Apricot
3/28/17	9:00 AM	42	Dormant	Dormant	Silver Tip	Dormant	Silver Tip	Dormant	Dormant	Dormant	Dormant	Bud Swell	Dormant	Dormant	--	--
4/3/17	12:00 PM	60	Dormant	Dormant	Silver Tip	Dormant	Silver Tip	Dormant	Dormant	Dormant	Dormant	Bud Swell	Dormant	Dormant	--	--
4/10/17	9:00 AM	109	Bud Swell	Bud Swell	Silver Tip	Green Tip	Silver Tip	Ear. Silver Tip	Bud Swell	Ear. Side Green	Side Green	Side Green	Side Green	Scale Crack	--	--
4/17/17	11:00 AM	153	Bud Swell	Late Bud Swell	Green Tip	Green Tip	Green Tip	Green Tip	Side Green	Early Green Tip	Side Green	Green Tip	Side Green	Scale Crack	--	--
4/24/17	9:30 AM	180	Ear. Green Cluster	Ear. Green Cluster	Ear. 1/2" Green	1/2" Green	1/2" Green	1/2" Green	Late Green Tip	Early Bud Burst	Early Bud Burst	Late Green Tip	Early Bud Burst	Scale Crack	--	--
4/25/17	1:00 PM	195	Green Cluster	Green Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Late Green Tip	Early Bud Burst	Bud Burst	Early Bud Burst	Bud Burst	Scale Crack	--	--
4/26/17	4:00 PM	220	Green Cluster	Green Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Early Bud Burst	Bud Burst	White Bud	Bud Burst	White Bud	Scale Crack	--	--
4/27/17	2:00 PM	240	Green Cluster	Green Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Early Bud Burst	Bud Burst	First Bloom	Ear. White Bud	First Bloom	Scale Crack	--	--
5/1/17	1:00 PM	252	Green Cluster	Green Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Bud Burst	Bud Burst	40% Bloom	Ear. White Bud	70% Bloom	Early Bud Swell	--	--
5/5/17	9:30 AM	271	White Bud	Ear. White Bud	Tight Cluster	Tight Cluster	Early Pink	Early Pink	Ear. White Bud	Ear. White Bud	Full Bloom	First Bloom	Full Bloom	Early Bud Swell	--	--
5/8/17	9:00 AM	279	White Bud	Ear. White Bud	Early Pink	Pink	Pink	Pink	Ear. White Bud	Ear. White Bud	Full Bloom	10% Bloom	Full Bloom	Early Bud Swell	--	--
5/10/17	4:30 PM	295	White Bud	Ear. White Bud	Pink	Pink	Pink	Open Cluster	First Bloom	White Bud	Full Bloom	60% Bloom	Full Bloom	Early Bud Swell	--	--
5/12/17	2:30 PM	320	80% Bloom	White Bud	Open Cluster	Open Cluster	Open Cluster	Open Cluster	80% Bloom	60% Bloom	Ear. Petal Fall	Full Bloom	Ear. Petal Fall	Early Bud Swell	--	--
5/15/17	1:30 PM	352	Full Bloom	Full Bloom	Open Cluster	King Bloom	King Bloom	King Bloom	Full Bloom	Full Bloom	Petal Fall	Ear. Petal Fall	Petal Fall	Early Bud Swell	--	--
5/17/17	1:30 PM	395	Ear. Petal Fall	Ear. Petal Fall	60% Bloom	60% Bloom	80% Bloom	80% Bloom	Ear. Petal Fall	Ear. Petal Fall	Late Petal Fall	Petal Fall	Late Petal Fall	Bud Swell	--	--
5/19/17	1:30 PM	428	Late Petal Fall	Late Petal Fall	Full Bloom	Full Bloom	Full Bloom	Full Bloom	Petal Fall	Petal Fall	Shuck Split	Late Petal Fall	Shuck Split	Bud Burst	--	--
5/22/17	10:00 AM	458	7 mm Fruit	Late Petal Fall	Full Bloom	Ear. Petal Fall	Ear. Petal Fall	Ear. Petal Fall	Late. Petal Fall	Late. Petal Fall	8 mm Fruit	In the Shuck	8 mm Fruit	Bud Burst	--	--
5/30/17	10:30 AM	590	9 mm Fruit	7 mm Fruit	7 mm Fruit	6 mm Fruit	6 mm Fruit	7 mm Fruit	8 mm Fruit	8 mm Fruit	11 mm Fruit	10 mm Fruit	11 mm Fruit	1" - 3" Shoots	--	--
6/5/17	9:00 AM	700	13 mm Fruit	14 mm Fruit	13 mm Fruit	10 mm Fruit	9 mm Fruit	11 mm Fruit	10 mm Fruit	10 mm Fruit	12 mm Fruit	11 mm Fruit	13 mm Fruit	4" - 8" Shoots	--	--
6/12/17	10:30 AM	890	16 mm Fruit	19 mm Fruit	20 mm Fruit	15 mm Fruit	16 mm Fruit	18 mm Fruit	12 mm Fruit	13 mm Fruit	13 mm Fruit	13 mm Fruit	14 mm Fruit	10" - 16" Shoots	--	--
6/19/17	1:30 PM	1090	21 mm Fruit	23 mm Fruit	33 mm Fruit	24 mm Fruit	27 mm Fruit	24 mm Fruit	13 mm Fruit	14 mm Fruit	15 mm Fruit	14 mm Fruit	16 mm Fruit	10" - 16" Shoots	--	--
6/26/17	1:00 PM	1240	24 mm Fruit	27 mm Fruit	40 mm Fruit	30 mm Fruit	35 mm Fruit	32 mm Fruit	15 mm Fruit	15 mm Fruit	19 mm Fruit	17 mm Fruit	24 mm Fruit	First Bloom	--	--
7/10/17	4:00 PM	1595	28 mm Fruit	37 mm Fruit	50 mm Fruit	40 mm Fruit	45 mm Fruit	42 mm Fruit	19 mm Fruit	22 mm Fruit	22 mm Fruit	22 mm Fruit	24 mm Fruit	Buck Shot Berries	--	--
7/17/17	11:00 AM	1770	34 mm Fruit	41 mm Fruit	54 mm Fruit	45 mm Fruit	50 mm Fruit	47 mm Fruit	21 mm Fruit	23 mm Fruit	Harvested	Harvested	Harvested	Buck Shot Berries	--	--
7/24/17	10:00 AM	1985	37 mm Fruit	43 mm Fruit	56 mm Fruit	47 mm Fruit	52 mm Fruit	52 mm Fruit	Harvested	23 mm Fruit	--	--	--	Berry Touch	--	--
7/31/17	4:00 PM	2180	41 mm Fruit	49 mm Fruit	54 mm Fruit**	49 mm Fruit	57 mm Fruit	58 mm Fruit	--	Harvested	--	--	--	Berry Touch	--	--
8/7/17	2:30 PM	2355	43 mm Fruit	51 mm Fruit	59 mm Fruit**	53 mm Fruit	61 mm Fruit	61 mm Fruit	--	--	--	--	--	Green Fruit	--	--
8/14/17	3:30 PM	2535	45 mm Fruit	53 mm Fruit	59 mm Fruit**	55 mm Fruit	63 mm Fruit	65 mm Fruit	--	--	--	--	--	Green Fruit	--	--
8/21/17	11:30 AM	2730	49 mm Fruit	--	62 mm Fruit**	57 mm Fruit	65 mm Fruit	68 mm Fruit	--	--	--	--	--	Green Fruit	--	--
9/1/17	4:30 PM	2960	49 mm Fruit	61 mm Fruit	69 mm Fruit**	61 mm Fruit	71 mm Fruit	73 mm Fruit	--	--	--	--	--	Green Fruit	--	--
9/12/17	10:30 AM	3135	Harvested	Harvested	72 mm Fruit**	63 mm Fruit	73 mm Fruit	76 mm Fruit	--	--	--	--	--	Verasion	--	--
9/18/17	4:00 PM	3305	--	--	72 mm Fruit**	63 mm Fruit	73 mm Fruit	76 mm Fruit	--	--	--	--	--	Verasion	--	--
9/26/17	1:00 PM	3570	--	--	Harvested	63 mm Fruit	73 mm Fruit	Harvested	--	--	--	--	--	Verasion	--	--
10/2/17	2:30 PM	3660	--	--	--	Harvested	Harvested	--	--	--	--	--	--	Soft Fruit	--	--

\*\* - New Mac tree used on 7/31