2015 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	Golden Delicious	Montmorency	Balaton	Hedelfingen	Gold	Napoleon	**Chardonay (switched to Riesling on 6/22)	58.900.12 Plum	Apricot
4/13/15	11:00 AM	76	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Bud Swell	Bud Swell	Bud Swell	Bud Swell	Dormant	--	Dormant
4/16/15	11:00 AM	96	Bud Swell	Dormant	Silver Tip	Dormant	Dormant	Dormant	Bud Swell	Side Green	Bud Swell	Side Green	Side Green	Scale Crack	--	Ear. Red Tip
4/20/15	2:00 PM	134	Bud Swell	Bud Swell	Green Tip	Green Tip	Green Tip	Green Tip	Side Green	Late Side Green	Side Green	Green Tip	Late Side Green	Scale Crack	--	Red Tip
4/24/15	2:00 PM	136	Bud Swell	Bud Swell	Green Tip	Green Tip	Green Tip	Green Tip	Side Green	Late Side Green	Side Green	Green Tip	Late Side Green	Scale Crack	--	Red Tip
4/27/15	2:30 PM	144	Bud Swell	Bud Swell	1/4 inch Green	1/4 inch Green	1/4 inch Green	1/4 inch Green	Side Green	Green Tip	Green Tip	Green Tip	Green Tip	Scale Crack	--	Red Tip
5/1/15	3:30 PM	165	Bud Burst	Early Bud Burst	1/2" Green	1/2" Green	1/2" Green	1/2" Green	Green Tip	Early Bud Burst	Late Green Tip	Early Bud Burst	Early Bud Burst	Scale Crack	--	Late Red Tip
5/4/15	10:00 AM	218	Green Cluster	Ear. Green Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Ear. Bud Burst	Bud Burst	Ear. White Bud	Late Bud Burst	Ear. White Bud	Scale Crack	--	40% Bloom
5/6/15	11:00 AM	246	Green Cluster	Green Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Ear. Bud Burst	Bud Burst	First Bloom	Ear. White Bud	40% Bloom	Late Scale Crack	--	80% Bloom
5/7/15	1:00 PM	267	Ear. White Bud	Ear. White Bud	First Pink	Tight Cluster	Tight Cluster	First Pink	Bud Burst	Ear. White Bud	Full Bloom	10% Bloom	Full Bloom	Ear. Bud Swell	--	Full Bloom
5/8/15	4:00 PM	300	White Bud	White Bud	Early Pink	Open Cluster	Open Cluster	Early Pink	1st Bloom	1st Bloom	Full Bloom	Full Bloom	Full Bloom	Bud Swell	--	Mid Petal Fall
5/11/15	11:00 AM	334	40% Bloom	First Bloom	Open Cluster	Open Cluster	Open Cluster	Open Cluster	30% Bloom	60% Bloom	Ear. Petal Fall	Full Bloom	Ear. Petal Fall	Bud Swell	--	Late Petal Fall
5/13/15	3:00 PM	345	Full Bloom	60% Bloom	Open Cluster	Open Cluster	Open Cluster	Open Cluster	70% Bloom	Full Bloom	Petal Fall	Ear. Petal Fall	Petal Fall	Late Bud Swell	--	Late Petal Fall
5/15/15	1:00 PM	365	Full Bloom	Full Bloom	Open Cluster	Open Cluster	Open Cluster	King Bloom	Full Bloom	Full Bloom	Late Petal Fall	Petal Fall	Petal Fall	Late Bud Swell	--	Late Petal Fall
5/18/15	11:00 AM	425	Petal Fall	Petal Fall	Full Bloom	80% Bloom	Full Bloom	80% Bloom	Mid Petal Fall	Mid Petal Fall	Ear. Shuck Split	Late Petal Fall	Ear. Shuck Split	Bud Burst	--	Shuck Split
5/22/15	4:00 PM	460	Late Petal Fall	Late Petal Fall	Petal Fall	Ear. Petal Fall	Petal Fall	Ear. Petal Fall	Late Petal Fall	Late Petal Fall	7 mm Fruit	6 mm Fruit	7 mm Fruit	Bud Burst	--	10 mm Fruit
5/26/15	9:00 AM	520	8 mm Fruit	9 mm Fruit	Petal Fall	Petal Fall	Petal Fall	Petal Fall	In The Shuck	Ear. Shuck Split	10 mm Fruit	9 mm Fruit	9 mm Fruit	1" - 3" Shoots	--	15 mm Fruit
5/29/15	2:30 PM	615	8 mm Fruit	9 mm Fruit	Late Petal Fall	Late Petal Fall	Late Petal Fall	Late Petal Fall	7 mm Fruit	9 mm Fruit	12 mm Fruit	11 mm Fruit	11 mm Fruit	1" - 3" Shoots	--	19 mm Fruit
6/1/15	9:30 AM	645	9 mm Fruit	10 mm Fruit	7 mm Fruit	6 mm Fruit	7 mm Fruit	6 mm Fruit	9 mm Fruit	10 mm Fruit	13 mm Fruit	11 mm Fruit	11 mm Fruit	1" - 3" Shoots	--	23 mm Fruit
6/5/15	3:30 PM	722	12 mm Fruit	12 mm Fruit	10 mm Fruit	8 mm Fruit	9 mm Fruit	7 mm Fruit	12 mm Fruit	11 mm Fruit	14 mm Fruit	11 mm Fruit	12 mm Fruit	4" - 8" Shoots	--	24 mm Fruit
6/8/15	3:30 PM	780	14 mm Fruit	13 mm Fruit	11 mm Fruit	10 mm Fruit	11 mm Fruit	9 mm Fruit	12 mm Fruit	12 mm Fruit	14 mm Fruit	12 mm Fruit	12 mm Fruit	4" - 8" Shoots	--	25 mm Fruit
6/15/15	11:00 AM	928	16 mm Fruit	15 mm Fruit	18 mm Fruit	16 mm Fruit	19 mm Fruit	15 mm Fruit	13 mm Fruit	13 mm Fruit	14 mm Fruit	13 mm Fruit	13 mm Fruit	10" - 16" Shoots	--	26 mm Fruit
6/22/15	10:00 AM	1080	21 mm Fruit	20 mm Fruit	24 mm Fruit	23 mm Fruit	24 mm Fruit	21 mm Fruit	13 mm Fruit	13 mm Fruit	16 mm Fruit	14 mm Fruit	14 mm Fruit	10" - 16" Shoots**	--	28 mm Fruit
6/29/15	10:00 AM	1250	24 mm Fruit	22 mm Fruit	29 mm Fruit	27 mm Fruit	31 mm Fruit	26 mm Fruit	17 mm Fruit	14 mm Fruit	18 mm Fruit	15 mm Fruit	16 mm Fruit	10" - 16" Shoots**	--	30 mm Fruit
7/6/15	11:00 AM	1428	27 mm Fruit	27 mm Fruit	32 mm Fruit	33 mm Fruit	35 mm Fruit	30 mm Fruit	20 mm Fruit	18 mm Fruit	23 mm Fruit	20 mm Fruit	22 mm Fruit	First Bloom	--	32 mm Fruit
7/13/15	4:30 PM	1615	30 mm Fruit	30 mm Fruit	36 mm Fruit	36 mm Fruit	37 mm Fruit	35 mm Fruit	21 mm Fruit	20 mm Fruit	25 mm Fruit	22 mm Fruit	23 mm Fruit	Bloom	--	33 mm Fruit
7/20/15	11:00 AM	1810	35 mm Fruit	35 mm Fruit	41 mm Fruit	39 mm Fruit	41 mm Fruit	39 mm Fruit	22 mm Fruit	23 mm Fruit	Harvested	Harvested	Harvested	Buckshot Berries	--	39 mm Fruit
7/27/15	2:30 PM	2020	38 mm Fruit	37 mm Fruit	43 mm Fruit	42 mm Fruit	44 mm Fruit	42 mm Fruit	Harvested	23 mm Fruit	--	--	--	Buckshot Berries	--	Harvested
8/3/15	10:00 AM	2230	42 mm Fruit	42 mm Fruit	46 mm Fruit	45 mm Fruit	47 mm Fruit	43 mm Fruit	--	Harvested	--	--	--	Berry Touch	--	--
8/10/15	3:00 PM	2420	46 mm Fruit	44 mm Fruit	47 mm Fruit	46 mm Fruit	49 mm Fruit	44 mm Fruit	--	--	--	--	--	Berry Touch	--	--
8/17/15	10:00 AM	2625	48 mm Fruit	46 mm Fruit	50 mm Fruit	51 mm Fruit	55 mm Fruit	48 mm Fruit	--	--	--	--	--	Green Fruit	--	--
8/31/15	9:00 AM	2975	52 mm Fruit	53 mm Fruit	54 mm Fruit	55 mm Fruit	59 mm Fruit	54 mm Fruit	--	--	--	--	--	Green Fruit	--	--