2010 GROWTH STAGES - NW Michigan Horticultural Research Station

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	58.900.12 Plum	Apricot
3/17/10	10:00 AM	45	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Early Bud Swell	Early Bud Swell	Dormant	Dormant	Dormant
3/24/10	1:00 PM	65	Dormant	Dormant	Early Bud Swell	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Early Bud Swell	Early Bud Swell	Dormant	Dormant	Dormant
3/30/10	3:00 PM	80	Dormant	Dormant	Ear. Silver Tip	Dormant	Dormant	Dormant	Swollen Bud	Swollen Bud	Ear. Side Green	Ear. Side Green	Ear. Side Green	Dormant	Dormant	Swollen Bud
3/31/10	4:00 PM	94	Swollen Bud	Swollen Bud	Late Silver Tip	Late Silver Tip	Silver Tip	Silver Tip	Side Green	Green Tip	Side Green	Green Tip	Green Tip	Scale Crack	Swollen Bud	Late Swollen Bud
4/2/10	3:30 PM	140	Bud Burst	Bud Burst	Green Tip	Green Tip	Green Tip	Green Tip	Green Tip	Green Tip	Late Green Tip	Late Green Tip	Late Green Tip	Scale Crack	Bud Burst	Late Swollen Bud
4/5/10	3:30 PM	184	Late Bud Burst	Late Bud Burst	Late Green Tip	1/2" Green	1/2" Green	Late Green Tip	Late Green Tip	Early Bud Burst	Early Bud Burst	Early Bud Burst	Early Bud Burst	Early Bud Swell	Late Bud Burst	Late Bud Burst
4/9/10	4:00 PM	198	Early Grn. Cluster	Early Grn. Cluster	1/2" Green	1/2" Green	1/2" Green	1/2" Green	Late Green Tip	Early Bud Burst	Early Bud Burst	Bud Burst	Bud Burst	Early Bud Swell	Early Grn. Cluster	Early Wht. Tip
4/12/10	3:00 PM	216	Green Cluster	Green Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Bud Burst	Bud Burst	Bud Burst	Late Bud Burst	Early White Bud	Early Bud Swell	Green Cluster	1st Bloom
4/13/10	4:00 PM	224	Green Cluster	Green Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Bud Burst	Bud Burst	Early White Bud	Late Bud Burst	Early White Bud	Early Bud Swell	Green Cluster	50% Bloom
4/14/10	3:30 PM	236	Green Cluster	Green Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Bud Burst	Bud Burst	White Bud	Late Bud Burst	White Bud	Early Bud Swell	Green Cluster	60% Bloom
4/15/10	5:00 PM	263	White Bud	White Bud	Early Pink	Tight Cluster	Tight Cluster	Tight Cluster	Bud Burst	Early White Bud	40% Bloom	Late White Bud	70% Bloom	Early Bud Swell	White Bud	90% Bloom
4/19/10	2:30 PM	283	White Bud	1st Bloom	Pink	Tight Cluster	Early Pink	Early Pink	Early White Bud	White Bud	80% Bloom	50% Bloom	Full Bloom	Early Bud Swell	1st Bloom	Petal Fall
4/21/10	9:00 AM	293	White Bud	1st Bloom	Pink	Tight Cluster	Pink	Early Pink	1st Bloom	1st Bloom	95% bloom	80% Bloom	Full Bloom	Early Bud Swell	20% Bloom	Petal Fall
4/23/10	4:00 PM	303	White Bud	50% Bloom	Pink	Early Pink	Pink	Early Pink	10% Bloom	30% Bloom	Full Bloom	90% Bloom	Full Bloom	Early Bud Swell	80% Bloom	Petal Fall
4/26/10	2:30 PM	330	Full Bloom	Full Bloom	Late Pink	Pink	Pink	Pink	80% Bloom	Full Bloom	Full Bloom	Full Bloom	Early Petal Fall	Early Bud Swell	Full Bloom	Late Petal Fall
4/30/10	4:30 PM	370	Full Bloom	Ear. Petal Fall	King Bloom	1st Bloom	1st Bloom	1st Bloom	Full Bloom	Ear. Petal Fall	Petal Fall	Ear. Petal Fall	Petal Fall	Late Bud Swell	Ear. Petal Fall	Late Petal Fall
5/3/10	4:00 PM	432	Petal Fall	Petal Fall	Full Bloom	80% Bloom	90% Bloom	90% Bloom	Petal Fall	Petal Fall	Petal Fall	Petal Fall	Ear. Shuck Split	Late Bud Swell	Petal Fall	Shuck Split
5/7/10	1:30 PM	468	Late Petal Fall	8 mm Fruit	Petal Fall	Petal Fall	Petal Fall	Petal Fall	Late Petal Fall	Late Petal Fall	Late Shuck Split	Shuck Split	Late Shuck Split	Late Bud Burst	Petal Fall	11 mm Fruit
5/10/10	5:00 PM	476	8 mm Fruit	8 mm Fruit	Petal Fall	Late Petal Fall	Late Petal Fall	Late Petal Fall	Late Petal Fall	Late Petal Fall	7 mm Fruit	6 mm Fruit	7 mm Fruit	Late Bud Burst	Late Petal Fall	11 mm Fruit
5/14/10	2:30 PM	507	8 mm Fruit	8 mm Fruit	Late Petal Fall	Late Petal Fall	Late Petal Fall	Late Petal Fall	S.S. to 5mm Fruit	S.S. to 6mm Fruit	8 mm Fruit	7 mm Fruit	8 mm Fruit	Late Bud Burst	Shuck Split	11 mm Fruit
5/18/10	3:00 PM	565	8 mm Fruit	9 mm Fruit	Late Petal Fall	Late Petal Fall	Late Petal Fall	Late Petal Fall	S.S. to 6mm Fruit	S.S. to 7mm Fruit	9 mm Fruit	8 mm Fruit	10 mm Fruit	Late Bud Burst	Shuck Split	17 mm Fruit
5/24/10	3:30 PM	712	10 mm Fruit	14 mm Fruit	Trees Removed	8 mm Fruit	6 mm Fruit	7 mm Fruit	10 mm Fruit	10 mm Fruit	12 mm Fruit	11 mm Fruit	12 mm Fruit	1" - 3" Shoots	7 mm Fruit	28 mm Fruit
5/28/10	4:30 PM	830	13 mm Fruit	16 mm Fruit	-	12 mm Fruit	10 mm Fruit	11 mm Fruit	11 mm Fruit	11 mm Fruit	13 mm Fruit	11 mm Fruit	12 mm Fruit	4" - 8" Shoots	12 mm Fruit	30 mm Fruit
6/1/10	8:00 AM	920	16 mm Fruit	20 mm Fruit	-	17 mm Fruit	14 mm Fruit	16 mm Fruit	11 mm Fruit	12 mm Fruit	14 mm Fruit	12 mm Fruit	13 mm Fruit	10" - 16" Shoots	15 mm Fruit	31 mm Fruit
6/7/10	5:00 PM	1044	18 mm Fruit	23 mm Fruit	-	21 mm Fruit	20 mm Fruit	21 mm Fruit	12 mm Fruit	12 mm Fruit	16 mm Fruit	14 mm Fruit	15 mm Fruit	10" - 16" Shoots	18 mm Fruit	32 mm Fruit
6/14/10	1:30 PM	1188	23 mm Fruit	28 mm Fruit	-	27 mm Fruit	25 mm Fruit	26 mm Fruit	15 mm Fruit	14 mm Fruit	20 mm Fruit	16 mm Fruit	17 mm Fruit	First Bloom	21 mm Fruit	35 mm Fruit
6/21/10	4:00 PM	1370	25 mm Fruit	31 mm Fruit	-	31 mm Fruit	30 mm Fruit	30 mm Fruit	18 mm Fruit	17 mm Fruit	22 mm Fruit	19 mm Fruit	20 mm Fruit	50% Bloom	23 mm Fruit	37 mm Fruit
6/28/10	4:00 PM	1552	29 mm Fruit	35 mm Fruit	-	35 mm Fruit	40 mm Fruit	39 mm Fruit	21 mm Fruit	20 mm Fruit	24 mm Fruit	21 mm Fruit	23 mm Fruit	Late Bloom	25 mm Fruit	40 mm Fruit
7/12/10	4:30 PM	1970	36 mm Fruit	43 mm Fruit	-	47 mm Fruit	53 mm Fruit	42 mm Fruit	Harvested	22 mm Fruit	Harvested	Harvested	Harvested	Berry Touch	29 mm Fruit	Harvested
7/26/10	11:00 AM	2397	48 mm Fruit	50 mm Fruit	-	53 mm Fruit	61 mm Fruit	57 mm Fruit	-	Harvested	-	-	-	Green Fruit	32 mm Fruit	-
8/9/10	4:00 PM	2820	50 mm Fruit	54 mm Fruit	-	57 mm Fruit	69 mm Fruit	65 mm Fruit	-	-	-	-	-	Green Fruit	32 mm Fruit	-
8/24/10	7:30 AM	3249	Harvested	58 mm Fruit	-	61 mm Fruit	70 mm Fruit	70 mm Fruit	-	-	-	-	-	Veraison	37 mm Fruit	-