2003 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
4/9/03	10:00 AM	58	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant
4/14/03	4:00 PM	94	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Early Swollen Bud	Early Swollen Bud	Early Swollen Bud	Early Swollen Bud	Early Swollen Bud	Dormant	Dormant	Early Swollen Bud
4/21/03	9:00 AM	143	Swollen Bud	Swollen Bud	Silver Tip	Silver Tip	Silver Tip	Silver Tip	Swollen Bud	Swollen Bud	Swollen Bud	Swollen Bud	Swollen Bud	Scale Crack	Dormant	Swollen Bud
4/28/03	9:00 AM	175	Swollen Bud	Swollen Bud	1/4" Green	1/4" Green	1/4" Green	1/4" Green	Swollen Bud	Bud Burst	Swollen Bud	Swollen Bud	Bud Burst	Scale Crack	Early Sw. Bud	Bud Burst
4/30/03	4:30 PM	199	Swollen Bud	Swollen Bud	1/2" Green	1/2" Green	1/2" Green	1/2" Green	Bud Burst	Bud Burst	Late Sw. Bud	Late Sw. Bud	Bud Burst	Scale Crack	Early Sw. Bud	Bud Burst
5/2/03	4:30 PM	213	Swollen Bud	Swollen Bud	1/2" Green	1/2" Green	1/2" Green	1/2" Green	Bud Burst	Bud Burst	Late Sw. Bud	Bud Burst	Bud Burst	Scale Crack	Bud Burst	Bud Burst
5/5/03	9:00 AM	233	Swollen Bud	Swollen Bud	Ear. Tight Cluster	1/2" Green	1/2" Green	1/2" Green	Bud Burst	Bud Burst	Bud Burst	Bud Burst	Bud Burst	Scale Crack	Bud Burst	Bud Burst
5/7/03	4:30 PM	255	Bud Burst	Bud Burst	Ear. Tight Cluster	Ear. Tight Cluster	Ear. Tight Cluster	Ear. Tight Cluster	Late Bud Burst	Ear. Tight Cluster	Tight Cluster	Tight Cluster	Ear. Wht Bud	Lt. Scale Crack	Bud Burst	Bud Burst
5/9/03	3:30 PM	287	Green Cluster	Green Cluster	Tight Cluster	Ear. Tight Cluster	Ear. Tight Cluster	Tight Cluster	Late Bud Burst	Tight Cluster	1st Bloom	White Bud	1st Bloom	Ear. Bud Swell	Green Cluster	1st Bloom
5/12/03	2:00 PM	319	Green Cluster	Green Cluster	Pink	Tight Cluster	Tight Cluster	Tight Cluster	Ear. Wht Bud	Ear. Wht Bud	60% Bloom	60% Bloom	Full Bloom	Ear. Bud Swell	Green Cluster	Full Bloom
5/14/03	3:30 PM	340	Ear. Wht Bud	Ear. Wht Bud	Pink	Early Pink	Early Pink	Tight Cluster	1st Bloom	1st Bloom	Full Bloom	80% Bloom	Full Bloom	Late Bud Swell	Green Cluster	Full Bloom
5/16/03	3:30 PM	367	50% Bloom	1st Bloom	Pink	Pink	Pink	Pink	60% Bloom	20% Bloom	Full Bloom	Full Bloom	Petal fall	Bud Burst	50% Bloom	Petal Fall
5/19/03	1:30 PM	424	Full Bloom	Full Bloom	1st King Bloom	1st King Bloom	1st King Bloom	1st King Bloom	Early Petal Fall	Full Bloom	Petal Fall	Petal Fall	Petal Fall	Late Bud Burst	Full Bloom	Petal Fall
5/22/03	11:30 AM	450	Full Bloom	Full Bloom	80% King Bloom	100% King Bloom	50% King Bloom	70% King Bloom	Petal Fall	Full Bloom	Petal Fall	Petal Fall	Petal Fall	1-3" Shoots	Full Bloom	Petal Fall
5/27/03	1:00 PM	516	Petal Fall	Petal Fall	Full Bloom	Full Bloom	Full Bloom	Full Bloom	Petal Fall	Petal Fall	Shuck Split	Shuck Split	Shuck Split	4 - 8" Shoots	Petal Fall	Shuck Split
5/30/03	11:00 AM	571	Petal Fall	No Fruit	Petal Fall	Petal Fall	Petal Fall	Petal Fall	Fruit Set	Fruit Set	10 mm	9 mm	9 mm	4 - 8" Shoots	Petal Fall	No Fruit
6/2/03	1:30 PM	603	No Fruit	No Fruit	Petal Fall	Petal Fall	Petal Fall	Petal Fall	Shuck Split	Shuck Split	11 mm	10 mm	10 mm	4 - 8" Shoots	Petal Fall	No Fruit
6/9/03	8:30 AM	714	No Fruit	No Fruit	Fruit Set	Fruit Set	Fruit Set	Fruit Set	12 mm	12 mm	13 mm	12 mm	12 mm	4 - 8" Shoots	7 mm	No Fruit
6/16/03	1:00 PM	872	No Fruit	No Fruit	15 mm	13 mm	14 mm	13 mm	12 mm	12 mm	13 mm	12 mm	12 mm	10 - 16" Shoots	12 mm	No Fruit
6/23/03	4:00 PM	1038	No Fruit	No Fruit	22 mm	19 mm	20 mm	19 mm	13 mm	13 mm	15 mm	13 mm	13 mm	10 - 16" Shoots	18 mm	No Fruit
6/30/03	1:00 PM	1220	No Fruit	No Fruit	26 mm	25 mm	28 mm	22 mm	13 mm	14 mm	17 mm	16 mm	16 mm	First Bloom	20 mm	No Fruit
7/7/03	12:00 AM	1450	No Fruit	No Fruit	34 mm	32 mm	34 mm	30 mm	17 mm	18 mm	21 mm	19 mm	21 mm	Full Bloom	22 mm	No Fruit
7/14/03	1:00 PM	1605	No Fruit	No Fruit	39 mm	37 mm	42 mm	36 mm	19 mm	21 mm	23 mm	21 mm	23 mm	Buck Shot	25 mm	No Fruit
7/21/03	11:00 AM	1770	No Fruit	No Fruit	46 mm	42 mm	46 mm	42 mm	21 mm	22 mm	27 mm	23 mm	23 mm	Berry Touch	27 mm	No Fruit
7/28/03	11:00 AM	1967	No Fruit	No Fruit	50 mm	48 mm	49 mm	46 mm	Harvest Complete	24 mm	Harvest Complete	Harvest Complete	Harvest Complete	Berry Touch	30 mm	No Fruit
8/4/03	2:00 PM	2165	No Fruit	No Fruit	55 mm	52 mm	49 mm	50 mm	Harvest Complete	24 mm	Harvest Complete	Harvest Complete	Harvest Complete	Green Fruit	32 mm	No Fruit
8/11/03	8:30 AM	2364	No Fruit	No Fruit	58 mm	58 mm	55 mm	55 mm	Harvest Complete	Harvest Complete	Harvest Complete	Harvest Complete	Harvest Complete	Green Fruit	35 mm	No Fruit
8/18/03	9:00 AM	2575	No Fruit	No Fruit	63 mm	63 mm	59 mm	60 mm	Harvest Complete	Harvest Complete	Harvest Complete	Harvest Complete	Harvest Complete	Green Fruit	37 mm	No Fruit
8/25/03	11:30 AM	2790	No Fruit	No Fruit	68 mm	67 mm	61 mm	61 mm	Harvest Complete	Harvest Complete	Harvest Complete	Harvest Complete	Harvest Complete	Green Fruit	38 mm	No Fruit