2004 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
4/5/04	1:00 PM	49	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant
4/12/04	3:00 PM	63	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant	Dormant
4/15/04	9:00 AM	69	Dormant	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
4/19/04	10:30 AM	128	Swollen Bud	Swollen Bud	Late Green Tip	Late Green Tip	Late Green Tip	Late Green Tip	Swollen Bud	Late Swollen Bud	Late Swollen Bud	Late Swollen Bud	Late Swollen Bud	Early Bud Swell	Swollen Bud	Late Swollen Bud
4/22/04	4:00 PM	151	Late Swollen Bud	Ear. Bud Burst	Ear. 1/2" Green	Ear. 1/2" Green	Ear. 1/2" Green	Ear. 1/2" Green	Bud Burst	Bud Burst	Late Swollen Bud	Ear. Bud Burst	Ear. Bud Burst	Early Bud Swell	Ear. Bud Burst	Ear. Bud Burst
4/26/04	9:00 AM	165	Late Swollen Bud	Bud Burst	1/2" Green	1/2" Green	1/2" Green	1/2" Green	Bud Burst	Late Bud Burst	Bud Burst	Bud Burst	Early Tight Cluster	Early Bud Swell	Bud Burst	Ear. Bud Burst
4/30/04	9:00 AM	198	Bud Burst	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Bud Burst	Late Bud Burst	Tight Cluster	Early Tight Cluster	Tight Cluster	Late Bud Swell	Early Tight Cluster	25% Bloom
5/3/04	9:00 AM	204	Bud Burst	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Bud Burst	Early Tight Cluster	Tight Cluster	Tight Cluster	Tight Cluster	Late Bud Swell	Early Tight Cluster	50% Bloom
5/3/04	4:30 PM	217	Late Bud Burst	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Late Bud Burst	Early Tight Cluster	1st Bloom	Early Open Cluster	5% Bloom	Late Bud Swell	Early Tight Cluster	75% Bloom
5/7/04	Noon	235	Late Bud Burst	Tight Cluster	Tight Cluster	Early Tight Cluster	Early Tight Cluster	Early Tight Cluster	Late Bud Burst	Tight Cluster	15% Bloom	Open Cluster	75% Bloom	Late Bud Swell	Tight Cluster	Full Bloom
5/10/04	4:30 PM	269	Green Cluster	Early White Bud	Early Pink	Tight Cluster	Tight Cluster	Tight Cluster	Open Cluster	Open Cluster	Full Bloom	40% Bloom	Full Bloom	Late Bud Swell	Early White Bud	Petal Fall
5/12/04	2:30 PM	308	White Bud	60% Bloom	Pink	Tight Cluster	Late Tight Cluster	Tight Cluster	50% Bloom	50% Bloom	Early Petal Fall	Full Bloom	Early Petal Fall	Bud Burst	60% Bloom	Petal Fall
5/14/04	11:30 AM	332	80% Bloom	Petal Fall	1st King Bloom	Pink	Pink	Pink	Early Petal Fall	Full Bloom	Petal Fall	Petal Fall	Petal Fall	Bud Burst	Early Petal Fall	Petal Fall
5/17/04	3:00 PM	369	Full Bloom	Petal Fall	50% Bloom	1st King Bloom	10% King Bloom	1st King Bloom	Early Petal Fall	Full Bloom	Petal Fall	Petal Fall	Petal Fall	1 - 3" Shoots	50% Petal Fall	Fruit Set
5/20/04	1:30 PM	409	Full Bloom	Petal Fall	Full Bloom	60% King Bloom	80% Bloom	50% King Bloom	50% Petal Fall	50% Petal Fall	Shuck Split	Early Shuck Split	Shuck Split	1 - 3" Shoots	Petal Fall	Shuck Split
5/24/04	3:30 PM	450	Petal Fall	Petal Fall	50% Petal Fall	90% Bloom	Early Petal Fall	80% Bloom	Petal Fall	Petal Fall	Fruit Set	Fruit Set	Fruit Set	1 - 3" Shoots	Petal Fall	Fruit Set
5/28/04	1:00 PM	495	Fruit Set	Fruit Set	Petal fall	Full Bloom	Petal Fall	90% Bloom	Petal Fall	Petal Fall	9 mm	7 mm	8 mm	1 - 3" Shoots	Petal Fall	12 mm
6/1/04	10:30 AM	555	Fruit Set	Fruit Set	Petal fall	Petal fall	Petal fall	Full Bloom	6 mm	7 mm	9 mm	8 mm	9 mm	4 - 6" Shoots	Early Fruit Set	14 mm
6/7/04	1:30 PM	672	9 mm	13 mm	10 mm	Fruit Set	9 mm	Fruit Set	10 mm	10 mm	11 mm	10 mm	10 mm	4 - 8" Shoots	Fruit Set	20 mm
6/11/04	11:00 AM	765	11 mm	16 mm	17 mm	10 mm	14 mm	10 mm	11 mm	11 mm	11 mm	11 mm	12 mm	10 - 16" Shoots	9 mm	22 mm
6/14/04	2:00 PM	847	12 mm	17 mm	18 mm	14 mm	14 mm	13 mm	11 mm	11 mm	11 mm	11 mm	12 mm	10 - 16" Shoots	11 mm	24 mm
6/18/04	3:30 PM	935	no fruit	21 mm	22 mm	16 mm	18 mm	18 mm	11 mm	12 mm	12 mm	11 mm	12 mm	10 - 16" Shoots	15 mm	24 mm
6/28/04	10:30 AM	1110	no fruit	27 mm	33 mm	23 mm	27 mm	22 mm	12 mm	13 mm	15 mm	13 mm	13 mm	10 - 16" Shoots	20 mm	25 mm
7/5/04	3:00 PM	1274	no fruit	30 mm	38 mm	28 mm	33 mm	29 mm	16 mm	17 mm	17 mm	15 mm	15 mm	Bloom	22 mm	29 mm
7/12/04	4:00 PM	1430	no fruit	33 mm	42 mm	31 mm	36 mm	32 mm	20 mm	18 mm	18 mm	15 mm	16 mm	Post Blm - Sm. Buckshot	24 mm	31 mm
7/19/04	8:30 AM	1592	no fruit	37 mm	46 mm	36 mm	40 mm	36 mm	21 mm	20 mm	21 mm	17 mm	18 mm	Buckshot	25 mm	34 mm
7/26/04	9:00 AM	1789	no fruit	37 mm	50 mm	38 mm	45 mm	43 mm	21 mm	21 mm	21 mm	17 mm	19 mm	Buckshot	25 mm	36 mm
8/9/04	10:00 AM	2162	no fruit	46 mm	60 mm	48 mm	53 mm	53 mm	harvested	harvested	harvested	harvested	harvested	Berry Touch	29 mm	harvested
8/23/04	8:30 AM	2414	no fruit	50 mm	64 mm	55 mm	57 mm	60 mm	--	--	--	--	--	Green Fruit	33 mm	--