

**Table 1. Critical Dormant and Spring Temperatures for Temperate Tree Fruit Flower Buds**

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		1	2	3	4	5	6	7	8	9
Apples	Dormant (winter)	Silver Tip	Green Tip	½ inch Green	Tight Cluster	First Pink	Full Pink	First Bloom	Full Bloom	Post Bloom
10% Kill		-9.4	-7.8	-5.0	-2.8	-2.2	-2.2	-2.2	-2.2	-2.2
90% Kill		-34.0	-16.7	-12.2	-9.4	-6.1	-4.4	-3.9	-3.9	-3.9
Pears	Dormant (winter)	1 Bud Swell	2 Bud Burst	3 Tight Cluster	4 First White	5 Full White	6 First Bloom	7 Full Bloom	8 Post Bloom	
10% Kill		-9.4	-6.7	-4.4	-2.2	-1.7	-1.7	-1.7	-1.7	-1.7
90% Kill		-32.0	-17.8	-14.4	-9.4	-7.2	-5.6	-5.0	-4.4	-4.4
Apricots	Dormant (winter)	1 Bud Swell	2 Bud Burst	3 Red Tip	4 First White	5 First Bloom	6 Full Bloom	7 In the Shuck	8 Green Fruit	
10% Kill		-9.4	-6.7	-5.6	-4.4	-3.9	-2.8	-2.8	-2.2	-2.2
90% Kill		-24.0	-	-17.8	-12.8	-10.0	-7.2	-5.6	-4.4	-3.9
Peaches	Dormant (winter)	1 Bud Swell	2 Calyx Green	3 Calyx Red	4 First Pink	5 First Bloom	6 Full Bloom	7 Post Bloom		
10% Kill		-7.8	-6.1	-5.0	-3.9	-3.3	-2.8	-2.2	-2.2	-2.2
90% Kill		-24.0	-17.2	-15.0	-12.8	-9.4	-6.1	-4.4	-3.9	-3.9
European Plums	Dormant (winter)	1 Bud Swell	2 Side White	3 Tip Green	4 Tight Cluster	5 Open Cluster	6 First White	7 First Bloom	8 Full Bloom	9 Post Bloom
10% Kill		-10.0	-8.3	-6.7	-4.4	-3.3	-2.8	-2.2	-2.2	-2.2
90% Kill		-29.0	-17.8	-16.1	-13.9	-8.9	-5.6	-5.0	-5.0	-5.0
Sweet Cherries	Dormant (winter)	1 Bud Swell	2 Side Green	3 Green Tip	4 Tight Cluster	5 Open Cluster	6 First White	7 First Bloom	8 Full Bloom	9 Post Bloom
10% Kill		-8.3	-5.6	-3.9	-3.3	-2.8	-2.8	-2.2	-2.2	-2.2
90% Kill		-27.0	-15.0	-12.8	-10.0	-8.3	-6.1	-4.4	-3.9	-3.9
Tart Cherries	Dormant (winter)	1 Bud Swell	2 Side Green	3 Green Tip	4 Tight Cluster	5 Open Cluster	6 First White	7 First Bloom	8 Full Bloom	9 Post Bloom
10% Kill		-9.4	-4.4	-3.3	-3.3	-2.2	-2.2	-2.2	-2.2	-2.2
90% Kill		-32.0	-17.8	-12.2	-5.6	-4.4	-4.4	-4.4	-4.4	-4.4

(adopted from These numbers were taken from Washington (WSU), Michigan (MSU) and North Carolina (NCS) Extension Bulletins. Apple - WSU EB0913, Pears - WSU EB0978, Sweet Cherries - WSU EB1128, Peaches - WSU EB0914, Apricots - WSU EB1240, Tart Cherries - MSU Research. Rpt. 220, Washington State University Extension Bulletin 0913)