


# Critical Temperatures for Frost Damage on Fruit Trees

 Penn State University and  
Michigan State University

	Stage of Development	10% Kill (°F)	90% Kill (°F)
Apple	Silver tip	15	2
	Green tip	18	10
	½-inch green	23	15
	Tight cluster	27	21
	First pink	28	24
	First bloom	28	25
	Petal fall	28	25
Peaches	Swollen bud	18	1
	½-inch green	25	15
	Pink	26	21
	Bloom	27	24
	Petal fall	28	25
Pears	Swollen bud	15	0
	Bud burst	20	6
	Green cluster	24	15
	White bud	25	19
	Bloom	28	24
	Petal fall	28	24
Sweet Cherries	Swollen bud	17	5
	Bud burst	25	14
	Tight Cluster	26	17
	White bud	27	24
	Bloom	28	25
	Petal fall	28	25
Tart Cherries	Swollen bud	15	0
	Bud burst	26	22
	Tight cluster	26	24
	White bud	28	24
	Bloom	28	24
	Petal fall	28	24
Apricots	Swollen bud	15	---
	Calyx red	20	0
	First white	24	14
	First bloom	25	19
	Full bloom	27	22
	Post bloom	27	24