

CRITICAL TEMPERATURES FOR FROST PROTECTION

VARIOUS CROPS

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APPLES

Number	Bud Dev. Stage (BDS)	T10	T50
1	Silver tip	15	2
2	Green tip	18	10
3	Half-inch green	23	15
4	Tight cluster	27	21
5	First pink	26	24
6	Full pink	28	25
7	First bloom	28	25
8	Full bloom	28	25
9	Post bloom	28	25

APPLES, DELICIOUS

Number	Bud Dev. Stage (BDS)	T10	T50	T90
1	Silver tip	10.55	4.82	3.32
2	Green tip	18.50	9.68	3.74
3	Half-inch green	21.92	16.52	10.94
4	Tight cluster	24.86	21.02	17.78
5	First pink	26.96	24.08	21.36
6	Full pink	27.14	25.88	23.72
7	First bloom	27.86	26.06	24.98
8	Full bloom	28.78	25.34	23.54
9	Post bloom	28.58	27.14	26.60

APRICOTS

Number	Bud Dev. Stage (BDS)	T10	T90
1	First swelling	15	--
2	Tip separates	20	0
3	Red calyx	22	9
4	First white	24	14
5	First bloom	25	19
6	Full bloom	27	22
7	In the shuck	27	24
8	Green fruit	28	25

APRICOTS

Number	Bud Dev. Stage (BDS)	T10	T50	T90
1	First swelling	--	--	--
2	Tip separates	24.26	14.38	6.62
3	Red calyx	20.84	13.10	7.16
4	First white	23.18	18.68	13.46
5	First bloom	24.26	19.94	13.82
6	Full bloom	26.78	23.90	20.48
7	In the shuck	27.32	25.52	23.54
8	Green fruit	27.86	26.92	26.06

CHERRIES

Number	Bud Dev. Stage (BDS)	T ₁₀	T ₉₀
1	First swelling	17	3
2	Side green	22	9
3	Green tip	25	9
4	Tight cluster	26	14
5	Open cluster	27	19
6	First white	28	22
7	First bloom	28	24
8	Full bloom	28	23
9	Post bloom	28	25

CHERRIES, BING

Number	Bud Dev. Stage (BDS)	T ₁₀	T ₅₀	T ₉₀
1	First swelling	12.02	6.26	1.04
2	Side green	21.56	10.36	6.62
3	Green tip	25.34	13.10	7.16
4	Tight cluster	26.42	16.66	13.46
5	Open Cluster	27.14	19.94	13.82
6	First white	27.14	23.90	20.48
7	First bloom	26.96	23.52	23.94
8	Full bloom	27.68	26.92	26.06
9	Post bloom	28.22	27.14	25.32

PEACHES

Number	Bud Dev. Stage (BDS)	T ₁₀	T ₉₀
1	First swelling	18	1
2	Calyx green	21	5
3	Calyx red	23	9
4	First pink	25	15
5	First bloom	26	21
6	Full bloom	27	24
7	Post bloom	28	25

PEACHES, ELBERTA

Number	Bud Dev. Stage (BDS)	T ₁₀	T ₅₀	T ₉₀
1	First swelling	18.07	6.08	-0.22
2	Calyx green	21.02	11.30	3.74
3	Calyx red	23.36	15.44	6.44
4	First pink	24.62	21.02	13.44
5	First bloom	26.05	24.26	21.38
6	Full bloom	27.14	23.34	23.18
7	Post bloom	27.50	26.24	24.98