

Approximate Root Killing Temperatures (when the root gets this cold)

	Degrees F		* not specified, ** immature; *** mature roots	Degrees F	
	**	***		*	**
<i>Woody Ornamentals</i>					
Acer palmatum 'Atropurpureum'		15	Koelreuteria paniculata	16	-4
Buxus sempervirens	27	15	Leucothoe fontanesiana	20	5
Cornus florida	21	20	Mahonia aquifolium	10*	
Cotoneaster adpressus var. praecox	14*		Mahonia bealei	25	12
Cotoneaster congestus	25*		Magnolia x soulangeana		23
Cotoneaster dammeri	23		Magnolia stellata	21	23
Cotoneaster dammeri 'Skogsholmen'		19	Pachysandra terminalis		15
Cotoneaster horizontalis	18	15	Picea glauca		-10
Cryptomeria japonica	18	16	Pieris japonica	16	10
Cytisus x praecox		15	Pieris japonica 'Compacta'		15
Daphne cneorum		20	Pieris floribunda		5
Euonymus alatus 'Compactus'	19	7	Potentilla fruticosa		-10
Euonymus fortunei 'Argenteo-marginata'		15	Pyracantha coccinea		20
Euonymus fortunei 'Carrieri'		15	Pyracantha coccinea 'Lalandei'	25	
Euonymus fortunei 'Colorata'		5	Rhododendron carolinianum		0
Euonymus fortunei 'Vegetus'	23	12	Rhododendron catawbiense		0
Euonymus kiautschovicus	21		Rhododendron catawbiense 'Roseum Elegans'		12*
Hedera helix 'Baltica'		15	Rhododendron prunifolium	19	
Hypericum species	23	18	Rhododendron schlippenbachii	16	
Ilex x aquipernyi 'San Jose'	21		Rhododendron 'Exbury' Hybrids	18	0
Ilex cornuta 'Dazzler'	25*		Rhododendron 'Gibraltar'		10
Ilex crenata 'Convexa'		20	Rhododendron 'Hinodegiri'		10
Ilex crenata 'Helleri'	23		Rhododendron 'Hino Crimson'		19
Ilex crenata 'Hetzii'		20	Rhododendron 'P.J.M.' hybrids	0	-10
Ilex crenata 'Stokesii'		20	Rhododendron 'Purple Gem'	16	
Ilex glabra		15	Stephanandra incisa 'Cripsa'	18	0
Ilex x meserveae 'Blue Boy'	23	9	Taxus x media 'Hicksii'	18	-4
Ilex opaca	23	20	Taxus x media 'Nigra'		10
Ilex x 'Nellie R. Stevens'	23	14	Thuja occidentalis	10*	
Juniperus conferta	12	-9	Viburnum carlesii		15
Juniperus horizontalis 'Douglasii'		0	Viburnum plicatum var. tomentosum	19	
Juniperus horizontalis 'Plumosa'	12	0	Vinca minor		15

Juniperus squamata 'Meyeri'	12	0	² from Dr. Francis R. Gouin, 1985; pg 147 of Penn State Nursery Production, 2nd Ed, 1989.
Kalmia latifolia	16		Source: UT Pub #1485, pgs 6-7 (Drs Studer & Havis research)

Perennials

<i>Tender Perennials</i>		Degrees F*	<i>Hardy Perennials</i>		Degrees F*
Aster lateriflorus var. horizontalis	28		Achillea 'Coronation Gold'		8
Digitalis x mertonensis	24		Achillea filipendulina 'Parker's Variety'		12
Geum 'Mrs. Bradshaw'	24		Campanula takesimana		12
Hibiscus moscheutos 'Disco Belle Hybrids'	> 38		Dendranthema 'Baby Tears'		< 10
Houttuynia cordata 'Chameleon'	28		Dendranthema 'Debonair'		< 10
Kniphofia 'Pfitzei'	27		Gaillardia Monarch Group		12
Polystichum tsussimense	> 38		Heuchera americana 'Dale's Strain'		12
Thelyptris kunthii	28		Sedum spectabile 'Brilliant'		-6
Tricyrtis formosana 'Amethystina'	28		Lythrum salicaria 'Robert'		12
			Monarda 'Marshall's Delight'		8
<i>Intermediate Perennials</i>			Penstemon fruticosus 'Purple Haze'		12
Astilbe x arendsii 'White Gloria'	15		Phlox divaricata 'Chatahoochee'		7
Campanula glomerata var. acaulis	15		Phlox glaberrima 'Morris Berd'		8
Caaryopteris x clandonensis 'Longwood Blue'	21		Phlox paniculata 'White Admiral'		8
Tanacetum coccineum	21		Physostegia virginiana 'Summer Snow'		7
Coreopsis grandiflora 'Sunray'	18		Rosmarinus officinalis 'Arp'		12
Dendranthema 'Emily'	> 10		Salvia x superba 'Stratford Blue'		10
Dendranthema 'Megan'	> 10		Sedum 'Autumn Joy'		-11
Dendranthema 'Ruby Mound'	> 10		Tanacetum coccineum 'Robinson's Mix'		10
Dendranthema 'Triumph'	> 10		Tiarella cordifolia 'Running Tapestry'		12
Erodium x variabile 'Roseum'	18		Tiarella cordifolia var. collina 'Laird of Skye'		8
Erysimum hieraclifolium	21		Tiarella cordifolia var. collina 'Slick Rock'		12
Gaillardia 'Goblin'	14		Veronica repens		7
Hebe 'Margret'	18				
Hemerocallis 'Joan Senior'	15				
Heuchera sanguinea 'Chatterbox'	14				
Leucanthemum x superbum 'Alaska'	15				
Phlox paniculata 'David'	21				
Tiarella cordifolia var. collina 'Dunvegan'	15				
Tiarella cordifolia var. collina 'Oakleaf'	21				

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Tricyrtis hirta 'Miyazaki'	21	See article to be attached
Verbena canadensis 'Homestead Purple'	18	Comm/Gen/Root killing temps 8-06
Veronica 'Sunny Border Blue'	21	

Perennials--from Bir; but Dr. Leonard Perry at Univ of Vermont, drew on work by Dr. Jeff Iles at Iowa State and others.