

EXPECTED TREE AND SHRUB HEIGHTS AT 20 YEARS - Eastern South Dakota

MLRA's 102A, 102B, 102C, 102D

SHRUBS		Height at maturity (in feet)	SPECIES SUITABILITY AND EXPECTED HEIGHT IN 20 YEARS BY CONSERVATION TREE/SHRUB GROUP																
Common Name	Scientific name		1	1K, 1KK	2	2K, 2KK	3	4	4K, 4CK	4C, 4CC	5	5K	6D, 6DK	6G	7	8, 8K	9C	9L	9N
American black currant	<i>Ribes americanum</i>	5	4-5		4-5		4-5												
Russian almond ^{PM}	<i>Prunus tenella</i>	5	4-5	4-5			4-5	4-5	3-5	3-5	4-5	3-5							
Fragrant sumac	<i>Rhus aromatica</i>	6	5-6	5-6			5-6	4-5	3-5	3-5	4-5	4-5	3-4	3-4					
Golden (clove) currant	<i>Ribes aureum</i>	6	5-6	5-6			5-6	4-5	3-5	3-5	4-5	3-5	3-4	3-4		3-4	3-4	3-4	3-4
Gooseberry	<i>Ribes missouriensis</i>	6	4-6		4-5		4-6												
Gray dogwood	<i>Cornus racemosa</i>	6	4-6		4-5		4-6												
Hansen Hedge rose	<i>Rosa woodsii x rugosa</i>	6	4-5	4-5			4-5	4-5	3-4	3-4	3-4	3-4	3-4	3-4					
Mongolian cherry ^{PM}	<i>Prunus fruticosa</i>	6	4-6				4-5	4-5		4-5	4-5								
Western sandcherry	<i>Prunus pumila</i> var. <i>besseyi</i>	6	4-6				4-6				4-5		3-5	3-5					
Black chokeberry (Aronia)	<i>Aronia melanocarpa</i>	7	5-7				5-7	3-6		3-6	3-6								
Common ninebark	<i>Physocarpus opulifolius</i>	7	6-7				6-7												
Nanking cherry	<i>Prunus tomentosa</i>	7	5-7				5-6	5-6		4-5	5-6								
Redosier dogwood	<i>Cornus sericea</i>	7	6-7		6-7		5-7	5-6		5-6									
American elderberry	<i>Sambucus canadensis</i>	8	5-7		4-6		5-7												
Juneberry (Saskatoon Serviceberry)	<i>Amelanchier alnifolia</i>	8	6-8				5-7	4-5		4-5									
Peking cotoneaster	<i>Cotoneaster lucidus</i>	8	6-7	5-7			5-6	6-7		5-6	5-6	4-5	4-5	4-5					
Silverberry	<i>Elaeagnus commutata</i>	8	6-8	6-8			5-7	5-7	5-6	5-6	5-6	5-6	4-5	4-5			3-5	3-5	3-5
Skunkbush sumac	<i>Rhus trilobata</i>	8	5-8	4-7			5-6	5-6	4-5	4-5	6-7	4-5	3-6	3-6		3-5	3-5	3-5	3-5
American hazelnut	<i>Corylus americana</i>	10	8-10		6-8		8-10												
American plum ^{PM}	<i>Prunus americana</i>	10	8-9				8-9	7-8		6-7	7-8		5-6	5-6					
Arrowwood	<i>Viburnum dentatum</i>	10	8-10				6-8												
False indigo ^{PM}	<i>Amorpha fruticosa</i>	10	8-10	6-8	7-9	6-8	5-7	4-6	4-6	4-6	4-6	4-6							
Honeysuckle 'Arnold's Red'	<i>Lonicera tatarica</i> 'Arnold's Red'	10	8-10	7-9			8-9	6-8	6-8	6-8	5-7	5-7	5-7	5-7		5-6			
Honeysuckle 'Freedom'	<i>Lonicera</i> x 'Freedom'	10	8-10	7-9			8-10	6-8	6-8	6-8	5-7	5-7	4-6	4-6		4-5	4-5	4-5	4-5
Late lilac ^{PM}	<i>Syringa villosa</i>	10	8-10	8-9			8-10	7-9	6-8	7-9									
Meadowlark forsythia	<i>Forsythia europaea</i> x <i>F. ovata</i>	10	7-10	6-8			7-9	5-7	5-7	5-7	6-8	5-7							
Sandbar willow ^{PM}	<i>Salix interior</i>	10	7-10	7-10	7-9	7-9	4-6												
Silky dogwood	<i>Cornus amomum</i>	10	8-10		7-9		8-10												
Smooth sumac	<i>Rhus glabra</i>	10	8-10	7-9			8-10	6-8	6-8	6-8	5-7	5-7	4-6	4-6					
Seaberry (Sea-buckthorn)	<i>Hippophae rhamnoides</i>	11	9-11	9-11			7-9	7-9	7-9	7-9	6-8	6-8				4-5	4-5	4-5	4-5
American cranberrybush	<i>Viburnum trilobum</i>	12	8-12		6-10		8-10												
Amur honeysuckle	<i>Lonicera maackii</i>	12	8-10	7-9			7-9	7-8	6-7	6-7	7-8	6-7							
Caragana (Siberian peashrub)	<i>Caragana arborescens</i>	12	9-12	9-11			9-10	7-8	6-7	6-7	7-9	6-7	6-8	6-7		7-8	5-6	5-6	5-6
Common lilac	<i>Syringa vulgaris</i>	12	10-12	8-10			9-11	7-9	6-8	6-8	7-9	5-6	5-6	5-6		4-6	3-5	3-5	3-5
Cotoneaster 'Centennial'	<i>Cotoneaster integerrimus</i>	12	10-12	8-11			8-10	7-8		6-7	7-8	7-8							
Nannyberry	<i>Viburnum lentago</i>	12	10-12		6-8		10-12	6-8		6-8	6-8								
Silver buffaloberry ^{PM}	<i>Shepherdia argentea</i>	12	8-10	8-10			7-9	7-8	6-7	6-7	7-8	6-7	5-6	4-6		4-5	3-4	3-4	3-4
White Lilac	<i>Syringa vulgaris</i> var. <i>alba</i>	12	10-12	8-10			9-11	7-9	6-8	6-8									
Winterberry	<i>Euonymus bungeana</i>	12	8-10		8-10		8-10	7-9		7-9	6-8								
Artic Blue Willow 'Purpleoiser	<i>Salix purpurea</i>	15	10-15	10-15	5-10	5-10													
Plum, Prairie Red	<i>Prunus</i> sp	15	10-15				10-15	8-12		7-8	8-12		6-7	6-7					
Chokecherry	<i>Prunus virginiana</i>	19	12-18	9-12			12-18	10-12	9-11	9-11	9-11	9-11	8-10	8-10					
Schubert Chokecherry	<i>Prunus virginiana</i> 'Schubert'	20	15-20	12-15			15-20	12-15	9-11	9-11	9-11	9-11	8-10	8-10					

EXPECTED TREE AND SHRUB HEIGHTS AT 20 YEARS - Eastern South Dakota

MLRA's 102A, 102B, 102C

DECIDUOUS TREES		Height at maturity (in feet)	SPECIES SUITABILITY AND EXPECTED HEIGHT IN 20 YEARS BY CONSERVATION TREE/SHRUB GROUP																	
Common Name	Scientific name		1	1K, 1KK	2	2K, 2KK	3	4	4K, 4CK	4C, 4CC	5	5K	6D, 6DK	6G	7	8, 8K	9C	9L	9N	9W
Amur chokecherry	<i>Prunus maackii</i>	20	15-17				12-14	10-12		9-11										
Arnold hawthorn ^{PM}	<i>Crataegus arnoldiana</i>	20	15-18	14-16			14-16	10-12	9-11	9-11	11-13	9-11	8-10	8-10						
Fireberry (Roundleaf) hawthorn	<i>Crataegus chrysocarpa</i>	20	15-18	14-16			14-16	10-12	9-11	9-11	11-13	9-11	8-10	8-10						
Amur maple	<i>Acer ginnala</i>	24	15-20				15-20				9-10									
Apricot	<i>Prunus armeniaca</i>	25	16-20				16-18	10-12		10-12	11-13									
Manchurian crabapple ^{PM}	<i>Malus baccata</i> var. <i>mandshurica</i>	25	18-20				16-19	12-14		10-12	15-17		13-15	11-13						
Siberian crabapple	<i>Malus baccata</i>	25	18-20				16-19	12-14		10-12	15-17		13-15	11-13						
Tatarian maple	<i>Acer tataricum</i>	25	15-17				11-12				9-10									
Harbin (Ussurian) pear ^{PM}	<i>Pyrus ussuriensis</i>	26	16-18				16-18				15-17									
Russian-olive	<i>Elaeagnus angustifolia</i>	28	18-20	18-20	14-16	14-16	18-20	16-18	14-16	14-16	18-20	18-20	15-19	14-18		14-16	8-10	8-10	8-10	8-10
Ironwood	<i>Ostrya virginiana</i>	30	20-25	18-23			18-23	15-20	15-20	15-20	20-25	20-25								
Russian mulberry 1/	<i>Morus alba</i> var. <i>tartarica</i>	35	20-23				18-20													
Golden willow	<i>Salix alba</i> 'Vitelina'	40	32-35	32-35	30-34	30-34														
Laurel willow	<i>Salix pentandra</i>	40	25-30	25-30	20-25	20-25														
Littleleaf linden	<i>Tilia cordata</i>	40	30-35				26-32													
Red Stem Willow	<i>Salix alba</i> 'Chermesina'	40	25-30	25-30	30-34	30-34														
Kentucky coffeetree	<i>Gymnocladus dioica</i>	45	25-30				25-30													
Peachleaf willow	<i>Salix amygdaloides</i>	45	30-35	30-35	20-25	20-25														
White willow	<i>Salix alba</i>	45	30-35	30-35	20-25	20-25														
Boxelder	<i>Acer negundo</i>	46	22-24		18-20		19-24													
Black cherry	<i>Prunus serotina</i>	50	20-24				18-22													
Black walnut	<i>Juglans nigra</i>	50	19-22				15-17													
Bur oak	<i>Quercus macrocarpa</i>	50	20-23	18-20			18-20	16-18	14-16	14-16	18-20	18-20								
Honeylocust	<i>Gleditsia triacanthos</i>	50	25-30	22-24			25-30	22-24	20-22	20-22	21-25	21-25	22-26	21-25		17-20				
Quaking aspen	<i>Populau tremuloides</i>	50	30-35	30-35	20-25	20-25	22-25													
Hackberry ^{PM}	<i>Celtis occidentalis</i>	55	24-28	20-24			20-24	16-18	14-16	14-16	19-21	19-21	12-16	10-14						
Japanese Elm	<i>Ulmus davidiana</i> var. <i>japonica</i>	55	30-36	28-32			28-32	28-34	26-30	26-30	30-36	30-36	24-28	20-24		20-24	10-12	10-12	10-12	
Siberian elm	<i>Ulmus pumila</i>	55	32-36	30-32			30-32	30-34	28-32	28-32	32-36	32-36	24-28	21-25		21-25	11-13	11-13	11-13	
Basswood (American linden)	<i>Tilia americana</i>	65	30-35				26-32													
Northern Catalpa*	<i>Catalpa speciosa</i>	65	30-35	28-33			28-33				20-25	20-25								
White poplar	<i>Populus alba</i>	65	24-30	24-30			20-24				20-24	20-24								
Hybrid poplars	<i>Populus spp</i>	70	45-50		40-45															
Silver maple	<i>Acer saccharinum</i>	75	30-35		30-35		25-30													
Cottonwood	<i>Populus deltoides</i>	80	50-55	50-55	45-50	45-50														

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A name in parentheses is another common name that is used for the species.

1/ Plant south of Highway 14

* must alternate with another species

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MLRA's 102A, 102B, 102C

CONIFERS		Height at maturity (in feet)	SPECIES SUITABILITY AND EXPECTED HEIGHT IN 20 YEARS BY CONSERVATION TREE/SHRUB GROUP																	
Common Name	Scientific name		1	1K, 1KK	2	2K, 2KK	3	4	4K, 4CK	4C, 4CC	5	5K	6D, 6DK	6G	7	8, 8K	9C	9L	9N	9W
Eastern redcedar	<i>Juniperus virginiana</i>	40	15-18	15-18			14-16	14-16	13-15	13-15	18-20	18-20	11-15	9-14	13-15	12-14	6-8	6-8	6-8	
Meyer Spruce	<i>Picea meyeri</i>	40	20-25				18-22	15-20	12-18	15-20	5-10	5-10								
Rocky Mountain juniper	<i>Juniperus scopulorum</i>	40	15-18	15-18			14-16	14-16	13-15	13-15	18-20	18-20	11-15	9-14	12-14	12-14	6-8	6-8	6-8	
Black Hills spruce	<i>Picea glauca</i> var. <i>densata</i>	50	24-30				22-26	15-18	13-15	15-18	10-15	10-15								
Colorado blue spruce	<i>Picea pungens</i>	50	24-30				22-26	15-18	13-15	15-18	10-15	10-15								
White spruce	<i>Picea glauca</i>	50	24-30				22-26	15-18	13-15	15-18	10-15	10-15								
Siberian larch	<i>Larix sibirica</i>	60	24-30				20-24				15-18									
Ponderosa pine	<i>Pinus ponderosa</i>	70	24-30	15-17			22-26	16-18	14-16	14-16	20-24	20-24	17-22	13-17	18-20	16-18				

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A name in parentheses is another common name that is used for the species.
1/ Plant south of Highway 14
* must alternate with another species