Table 6. Perennial Graminoid, Forb and Woody Plant Suitability for Conservation Plantings by Major Land Resource Areas within Colorado

Genus species (common name - Cultivar)	Notes		Mature Height	NWI	Min. Precip inches	Max. Precip inches	Min FFP 32 degree days	Min. Elev	Max Elev	Soil pH Range	Major Land Resource Area																Soils and Landscape Position 1)								Suitability Ratings 3)										Conservation Plantings								
																											Uplands						Lowlands 2)																					
																											Slopes > 15%			Slopes < 15%			Saline Alkaline		Non-Saline Alkaline																			
																											Soil Textures																											
											D 34A	D 34B	D 35	D 36	E 47	E 48A	E 48B	E 49	E 51	G 67A	G 67B north	G 67B south	G 69	H 70A	H 72	H 77A	S	L	C	S	L	C	Moist	Dry	Moist	Dry	Seedling Vigor	Rate of Spread	Anerobic Tolerance	CaCO3 Tolerance	Drought Tolerance	Fire Tolerance	Salinity Tolerence	Shade Tolerance	Fertility requirement	Water use	Critical Areas	Cross Wind Trap Strips	Filter Strips	Grassed Waterways	Pasture and Hayland	Range	Riparian Areas	Soil Salinity Mgm't - Nonirr.	Wastewater Trtm't Strips
Abies lasiocarpa (subalpine fir)	NT		110 ft	FACU	20	40	70	8,400	12,000	4.0-6.5					X	X	X	X												X	X						2	2	2	2	2	2	1	1	M	M									
Acer glabrum (rocky mountain maple)	NT	5)	15 ft	FAC	12	25	80	5,000	10,500	5.8-7.5				X	X	X	X	X												X	X				X	X	2	2	3	3	3	5	1	3	M	L						X			
Acer negundo (boxelder)	NT	5) 6)	25 ft	FACW	15	60	100	4,500	7,600	5.2-7.0	X	X	X	X	X			X	X	X	X				X					X	X	X			X	X	2	2	3	5	3	2	2	3	M	M						X			
Achillea millefolium occidentalis (western yarrow)	NF	8)	3 ft		8	26	70	4,000	12,000	6.0-8.0	X	X	X	X	X	X	X	X	X	X	X		X						X	X					X	5	5	1	3	3	5	2	3	L	M	X					X			
Achnatherum hymenoides (Indian ricegrass - Nezpar)	NCB	8)	18 in	FACU	8	16	80	4,000	9,500	6.6-8.6	X	X	X	X	X	X	X	X	X								X	X		X	X					X	4	2	1	5	5	5	2	1	L	L	X				X	X			
Achnatherum hymenoides (Indian ricegrass - Paloma, Rimrock)	NCB	8)	18 in	FACU	8	16	90	4,000	9,500	6.6-8.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X					X	4	2	1	5	5	5	2	1	L	L	X				X	X			
Agropyron cristatum (crested wheatgrass - Ephraim)	ICB	8)	20 in		10	25	90	3,600	9,400	6.0-8.5	X	X	X	X	X	X	X	X	X	X	X	X			X			X	X		X	X				X	5	3	1	5	5	3	2	1	M	L	X			X	X				
Agropyron cristatum X *desertorum* (crested wheatgrass - Hycrest)	ICB	8)	24 in		8	25	90	3,600	9,400	6.0-8.5	X	X	X	X	X	X	X	X	X	X	X	X			X						X					X	5	3	1	5	5	5	2	1	M	M	X			X	X				
Agropyron desertorum (crested wheatgrass - Nordan)	ICB	8)	24 in		8	24	90	3,600	9,400	6.0-8.5	X	X	X	X	X				X	X	X	X	X	X	X	X				X	X	X				X	5	3	1	5	5	5	2	1	M	M	X				X				
Agropyron fragile (Siberian wheatgrass - Vavilov, P-27)	ICB	8)	20 in		10	24	90	3,600	9,400	5.6-9.0	X			X	X	X	X	X	X											X	X	X				X	4	2	1	5	5	5	2	1	L	M	X			X	X				
Agrostis gigantea (redtop)	ICS	5) 7) 10)	24 in	FACW	16	60	90			4.5-7.5	X	X	X	X	X	X	X	X	X												X				X		4	3	5	2	3	2	2	3	M	M	X		X	X	X		X		
Agrostis scabra (ticklegrass)	NCB	8) 10)	30 in	FAC	14	60	70	4,000	12,000	6.0-8.0	X	X	X	X	X	X	X	X	X	X	X		X								X	X					3	2	2	2	2	3	2	1	L	M					X	X			
Agrostis stolonifera (creeping bentgrass)	ICS	5) 10)	12 in	FACW	18	60	90	3,600	9,500	5.5-7.0	X	X	X	X	X	X	X	X	X	X	X		X		X					X	X				X		3	2	5	1	2	3	1	1	H	H							X	X	
Alnus incana tenuifolia (thinleaf alder)	NLT	5) 6)	30 ft	FACW	12	20	90	5,000	10,000	5.5-7.0		X	X	X		X	X	X	X											X	X				X		3	3	5	1	2	3	2	3	M	H							X	X	
Alopecurus alpinus (alpine foxtail)	NCS	4) 5)	12 in	FACW	10	24	70	8,500	12,800	5.0-7.5				X	X	X	X		X								X	X	X	X	X	X	X		X		3	3	5	3	2	1	3	3	M	H					X	X	X	X	
Alopecurus arundinaceus (creeping meadow foxtail - Garrison)	ICS	4) 5) 7) 10)	36 in		18	60	90			5.6-8.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X		X		2	5	5	5	2	5	3	1	H	H				X	X		X	X	
Alopecurus pratensis (meadow foxtail)	ICS	5) 10)	36 in	FACW	20	60	90			5.8-8.0	X	X	X	X	X	X	X	X	X						X						X				X		5	3	3	5	2	3	2	1	H	H				X		X	X		
Amelanchier alnifolia (Saskatoon serviceberry)	NCSh		15 ft	FACU	12	30	90	5,000	10,900	5.6-8.4	X	X	X	X	X	X	X	X	X	X										X	X	X				X	5	3	1	5	3	5	1	3	M	M	X				X				
Amelanchier utahensis (Utah serviceberry)	NCSh		10 ft		12	45	90	5,000	9,500	5.6-8.4	X	X	X	X	X	X	X	X	X											X	X	X				X	4	2	2	4	3	4	1	3	L	M	X				X				
Amorpha canescens (leadplant)	NLSh		48 in		20	45	100	3,500	7,600	5.5-8.0								X			X	X	X	X	X	X				X						X	3	2	1	5	5	5	2	5	L	L						X			
Andropogon gerardii (big bluestem - Bison, Champ, Kaw)	NWS	10)	48 in	FAC	16	35	100	3,400	9,500	6.0-8.0						X		X		X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	3	3	3	5	5	5	3	1	H	L	X		X	X	X	X			X
Andropogon hallii (sand bluestem - Elida, Garden)	NWS		48 in		14	30	120	3,500	5,200	5.6-8.4								X		X	X	X	X	X	X	X	X	X		X	X					X	4	4	1	2	5	5	1	1	H	L	X				X	X			
Andropogon hallii (sand bluestem - Woodward)	NWS		48 in		14	30	120	3,500	5,200	5.6-8.4													X	X	X	X	X	X		X	X					X	4	4	1	2	5	5	1	1	H	L	X				X	X			
Artemisia frigida (fringed sagebrush)	NCSh		24 in		10	40	90	4,000	10,000	7.0-9.0	X	X	X	X	X	X	X	X	X	X				X						X	X	X		X		X	5	3	2	5	5	3	3	3	L	L	X				X				
Artemisia ludoviciana (Louisiana sage - Summit)	NCSF	10)	24 in	FACU	10	60	70	3,500	11,300	5.6-9.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X					X	4	3	1	5	5	3	2	1	L	L	X				X	X			
Artemisia tridentata vaseyana (mountain big sagebrush - Hobble Creek)	NSh		48 in		8	18	90	5,500	10,100	6.0-8.5	X	X	X	X	X	X	X	X	X												X					X	3	3	1	5	3	2	2	1	L	M	X				X				
Astragalas cicer (cicer milkvetch - Lutana, Monarch)	ISL	4) 5) 10)	36 in		14	60	90			6.0-8.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X			X		X	X	X	X	2	4	3	5	3	5	3	1	L	M	X		X		X		X		
Atriplex canescens (fourwing saltbush - Rincon)	NSh		48 in	FACU	5	18	90	3,900	8,600	6.5-9.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X		X		X	5	2	1	5	5	2	5	1	L	M	X				X				
Betula nana (bog birch)	NSh	6)	36 in	OBL	14	30	80	5,700	11,400	4.9-6.5						X	X	X																			2	2	3	2	3	3	1	3	L	L						X			
Betula occidentalis (water birch)	NT	5) 6)	25 ft	FACW	16	50	100	5,000	9,500	5.5-7.0				X	X	X	X	X	X	X		X												X		3	2	5	2	2	5	2	3	M	H							X	X	
Blepharoneuron tricholepis (pine dropseed)	NCB	8)	24 in		6	18	70	4,900	12,000	6.0-8.0			X	X	X	X	X	X	X											X	X				X	2	2	2	3	3	5	2	3	L	L						X			
Bothriochloa ischaemum (yellow bluestem - Granada)	IWB	8)	24 in		15	30	160			5.0-8.5												X	X	X	X	X					X					3	2	1	5	5	5	2	1	M	M	X				X				
Bouteloua curtipendula (sideoats grama - Butte)	NWB	8) 9)	15 in		12	25	120	3,500	7,500	5.3-7.8								X		X	X	X	X					X	X		X	X				X	5	3	1	5	3	5	2	1	M	M	X			X	X	X			

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Genus species (common name - Cultivar)	Notes		Mature Height	NWI	Min. Precip inches	Max. Precip inches	Min FFP 32 degree days	Min. Elev	Max Elev	Soil pH Range	Major Land Resource Area: D 34A	D 34B	D 35	D 36	E 47	E 48A	E 48B	E 49	E 51	G 67A	G 67B north	G 67B south	G 69	H 70A	H 72	H 77A	Soils and Landscape Position 1), Uplands, Soil Textures, Slopes > 15%: S	L	C	Slopes < 15%: S	L	C	Lowlands 2), Saline Alkaline: Moist	Dry	Non-Saline Alkaline: Moist	Dry	Suitability Ratings 3): Seedling Vigor	Rate of Spread	Anerobic Tolerance	CaCO3 Tolerance	Drought Tolerance	Fire Tolerance	Salinity Tolerence	Shade Tolerence	Fertility requirement	Water use	Conservation Plantings: Critical Areas	Cross Wind Trap Strips	Filter Strips	Grassed Waterways	Pasture and Hayland	Range	Riparian Areas	Soil Salinity Mgm't - Nonirr.	Wastewater Trtm't Strips
Bouteloua curtipendula (sideoats grama - El Reno, Niner)	NWB	8) 9)	15 in		12	25	140	3,500	7,500	5.3-7.8			X	X						X	X	X	X	X	X	X		X	X		X	X				X	5	3	1	5	3	5	2	1	M	M	X			X	X	X			
Bouteloua curtipendula (sideoats grama - Vaughn)	NWB	8) 9)	15 in		12	25	100	3,500	7,500	5.3-7.8			X	X				X	X	X	X	X	X	X	X	X		X	X		X	X				X	5	3	1	5	3	5	2	1	M	M	X			X	X	X			
Bouteloua gracilis (blue grama - Hachita)	NWB	8) 9)	10 in		12	22	90	3,500	10,500	6.6-8.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	3	2	1	5	5	3	2	1	L	L	X			X	X	X			
Bouteloua gracilis (blue grama - Alma)	NWB	8) 9)	10 in		12	22	90	3,500	10,500	6.6-8.4					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	3	2	1	5	5	3	2	1	L	L	X			X	X	X			
Bouteloua gracilis (blue grama - Lovington)	NWB	8) 9)	10 in		12	22	120	3,500	10,500	6.6-8.4								X		X	X	X	X	X	X	X	X	X	X	X	X	X				X	3	2	1	5	5	3	2	1	L	L	X			X	X	X			
Bromus anomalus (nodding brome)	NCB	8)	24 in		10	20	70	5,300	11,500	5.4-7.9	X	X	X	X	X	X	X	X	X								X	X		X	X					X	5	3	1	3	5	3	2	5	L	L					X	X			
Bromus biebersteinii (meadow brome - Regar, Fleet, Paddock)	ICB	8) 10)	30 in		16	30	100			5.6-8.4	X	X	X	X	X	X	X	X	X	X	X	X			X						X					X	5	3	2	2	3	5	2	1	H	M	X				X				
Bromus inermis (smooth brome - Lincoln)	ICS	10)	30 in		14	40	120	4,500	10,000	5.5-8.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	4	5	3	3	3	3	2	1	H	M	X		X	X	X				X
Bromus inermis (smooth brome - Manchar)	ICS	10)	30 in		14	40	90	4,500	10,000	5.5-8.0	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X			X	X	4	5	3	3	3	3	2	1	H	M	X		X	X	X				X
Bromus marginatus (mountain brome - Bromar, Garnet)	NCB	8) 10)	36 in		18	60	90	5,000	10,100	5.5-8.0	X	X	X	X	X	X	X	X	X									X	X		X	X				X	5	2	1	5	5	3	2	1	M	M	X				X	X			
Buchloe dactyloides (buffalograss - Mesa, Sharps, Texoka, Codie, Bowie)	NWS		4 in	UPL	10	24	140	3,500	6,000	6.5-8.0								X		X	X	X	X	X	X	X		X	X		X	X				X	2	5	1	5	5	5	2	3	M	L				X	X	X			
Calamagrostis canadensis (bluejoint reedgrass)	NCS	6)	36 in	OBL	14	65	70	5,100	12,000	4.5-8.0		X	X	X		X	X	X	X	X	X																3	3	5	3	2	2	2	1	M	M							X		
Calimovilfa longifolia (prairie sandreed - Goshen, Pronghorn)	NWS	10)	36 in		12	28	110	3,500	9,800	5.6-8.4								X		X	X	X	X	X	X	X	X	X		X	X					X	3	5	1	5	5	3	1	1	H	L	X			X	X	X			
Callirhoe involucrata (purple poppymallow)	NF	8)	12 in		10	36	100	3,400	6,000	5.5-7.5								X		X	X	X	X	X	X	X				X	X					X	3	3	1	3	3	2	2	1	M	M	X					X			
Caltha leptosepala (marsh marigold)	NF	6) 8)	12 in	OBL	16	40	70	8,000	14,000	6.6-8.2				X		X	X	X	X																		2	2	3	3	1	3	1	1	M	H							X		
Caragana arborescens (Siberian peashrub)	ILSh		6 ft		12	55	90			5.0-8.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X		X		X	3	1	2	5	5	1	3	3	L	M	X								
Carex aquatilis (water sedge)	NB	6) 8)	24 in	OBL	15	65	70	5,000	13,000	4.0-7.5	X	X		X	X	X	X	X	X	X	X																3	2	5	5	2	2	1	1	M	H							X		
Carex canescens (silvery sedge)	NB	6) 8)	24 in	OBL	14	40	70	7,700	11,500	5.0-7.2				X	X	X	X	X	X																		2	2	5	2	1	5	1	3	L	H							X		
Carex douglasii (Douglas' sedge)	NS	4) 5)	18 in	FAC	14	24	80	4,500	10,500	6.0-8.5			X	X	X	X	X	X	X														X	X	X	X	2	3	3	3	3	5	3	1	L	M			X			X	X		
Carex filifolia (threadleaf sedge)	NB	8)	12 in		8	24	70	4,500	13,000	5.2-7.5				X	X	X	X	X		X	X				X					X	X					X	2	2	1	3	3	5	1	3	L	L						X			
Carex geyeri (elk sedge)	NS		12 in		12	20	80	6,000	11,000	6.0-7.7	X	X	X	X	X	X	X	X	X								X	X		X	X					X	2	2	1	3	5	5	1	3	L	L						X			
Carex microptera (smallwing sedge)	NB	5) 8)	16 in	FAC	10	24	80	8,700	11,000	5.6-7.4						X	X	X	X																X		2	2	5	3	1	5	1	1	L	H							X	X	
Carex nebrascensis (Nebraska sedge)	NS	6)	24 in	OBL	14	32	80	3,500	10,800	5.7-7.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X											2	3	5	3	1	5	3	1	L	H							X		
Carex praegracilis (clustered field sedge)	NS	5) 6)	24 in	FACW	10	24	80	3,300	10,600	5.3-6.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									X		2	2	5	3	2	5	1	3	L	M							X		
Carex simulata (slender sedge)	NS	4) 5) 6)	18 in	FACW	8	24	85	6,200	10,000	6.0-7.5						X	X																X		X		2	3	5	3	2	5	3	3	M	H							X	X	
Carex stipata (awl fruited sedge)	NB	6) 8)	40 in	OBL	12	50	80	4,800	8,000	4.9-7.9								X																			2	2	5	3	2	5	2	5	M	M							X		
Carex utriculata (beaked sedge)	NS	6)	42 in	OBL	18	60	70	6,500	11,000	5.7-7.7						X	X																				2	5	5	2	2	5	2	1	M	H							X		
Carex vulpinoidea (fox sedge)	NB	6) 8)	38 in	OBL	12	65	110	5,000	5,600	6.8-8.9								X																			3	3	3	3	2	2	1	3	M	M							X		
Celtis occidentalis (hackberry)	NT	5)	26 ft	FACU	14	60	90	3,500	7,200	6.0-7.8				X				X							X	X				X	X	X			X	X	3	3	3	3	3	5	1	3	M	L							X		
Cercocarpus ledifolius (curlleaf mountain mahogany)	NSh		10 ft		11	19	90	5,600	9,000	6.0-9.0		X				X														X	X	X				X	2	2	1	5	5	5	1	3	L	L						X			
Cercocarpus montanus (true mountain mahogany - Montane)	NSh		6 ft		10	25	90	4,000	10,000	6.0-8.0	X	X	X	X	X	X	X	X	X	X										X	X					X	3	2	1	5	5	5	1	3	L	L	X					X			
Chrysothamnus viscidiflorus (douglas rabbitbrush)	NSh		36 in		7	24	90	5,600	10,500	7.0-8.5	X	X	X		X	X	X	X	X											X	X	X				X	3	5	2	5	5	1	2	1	L	L	X					X			

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Colutea arborescens (bladder senna)	ILSh		8 ft		16	45	90	3,900	6,800	6.0-8.5	X			X	X	X	X	X		X	X	X		X	X	X				X	X	X				X	3	2	1	5	5	3	2	3	M	M	X								
Cornus sericea sericea (redosier dogwood)	NSh	4) 5)	10 ft	FACW	16	60	90	4,500	10,000	7.0-8.0	X			X	X	X	X	X	X	X	X									X	X		X	X	X	X	3	2	5	3	2	2	3	1	L	H							X	X	
Crateagus douglasii (black hawthorn - River)	NT	5)	15 ft	FAC	14	125	100	5,500	8,500	6.5-7.5	X	X		X	X	X	X	X	X											X	X	X			X		5	3	3	2	2	5	1	3	L	H							X	X	
Dactylis glomerata (orchardgrass - Latar, Paiute)	ICB	8) 10)	36 in	FACU	18	60	90	4,500	10,500	5.5-8.0	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X					X				X	X	4	2	3	5	3	3	2	3	H	M	X		X		X				X
Dalea purpurea (purple prairieclover)	NWL	8)	24 in		12	20	120	3,500	7,700	5.6-8.4								X		X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	3	3	1	3	3	2	3	3	L	L	X					X			
Dasiphora floribunda (shrubby cinquefoil)	NSh	4) 5)	30 in	FACW	16	20	70	5,400	12,100	6.0-8.0	X			X	X	X	X	X	X											X	X	X	X	X	X	X	2	3	3	3	3	2	3	3	M	L						X	X		
Deschampsia caespitosa (tufted hairgrass - Peru Creek)	NCB	5) 8)	36 in	FACW	16	60	70	5,200	14,000	5.5-7.5				X	X	X	X	X	X									X	X		X	X			X		2	2	5	3	2	5	1	1	M	H					X	X	X	X	
Distichlis spicata (inland saltgrass)	NWS	4) 5) 7) 10)	14 in	FACW	12	70	80	3,500	9,000	6.4-10.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	2	3	5	5	3	5	5	1	M	M			X		X	X	X		
Eliocharis palustris (common spikerush)	NCLS	6)	15 in	OBL	16	60	90	3,400	10,700	4.0-8.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X											3	5	5	3	2	3	2	3	M	H							X		
Elymus canadensis (Canada wildrye)	NCB	4) 5) 8) 10)	36 in	FACU	12	45	90	3,500	9,000	5.0-7.9	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X		X		5	3	3	5	2	2	3	5	M	M					X	X	X		
Elymus elymoides (bottlebrush squirreltail - Tusas)	NCB	8)	18 in		8	16	70	4,000	11,300	6.0-8.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X		X		X	3	2	1	5	5	3	3	1	L	L	X				X	X			
Elymus hoffmannii (hybrid wheatgrass - Newhy)	ICS	10)	36 in		13	35	90	4,500	9,500	6.6-8.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	3	3	3	5	3	2	4	1	M	M	X		X		X				
Elymus lanceolatus lanceolatus (thickspike wheatgrass - Critana)	NCS		20 in	UPL	10	25	90	4,800	10,000	5.5-8.0	X	X	X	X	X	X	X	X	X	X	X	X			X		X	X	X	X	X	X		X		X	4	3	2	3	5	5	3	3	M	L	X			X	X	X			
Elymus lanceolatus psammophilus (streambank wheatgrass - Sodar)	NCS		15 in		12	25	90	5,400	9,500	6.6-8.4	X			X	X	X	X	X	X								X	X	X	X	X	X		X		X	4	4	2	3	5	5	3	3	M	L	X			X	X	X			
Elymus trachycaulus (slender wheatgrass - Pryor, San Luis)	NCB	8) 10)	30 in	FACU	14	25	90	4,600	12,000	5.6-9.0	X			X	X	X	X	X	X								X	X		X	X			X		X	4	2	2	3	4	5	3	3	M	L	X				X	X			
Elymus wawawaiensis (Snake River wheatgrass - Secar)	NCB	8)	24 in	UPL	10	35	90	5,000	9,500	6.6-8.4	X	X	X	X	X															X	X	X				X	3	2	1	5	5	2	2	1	L	L	X				X	X			
Ephedra viridis (green ephedra)	NSh		36 in		6	12	140	4,500	9,000	7.0-8.0		X	X	X																X	X					X	2	3	1	5	5	5	2	3	M	L						X			
Eragrostis trichodes (sand lovegrass - Nebraska 27)	NWB	8)	40 in		16	35	120	3,900	7,000	5.0-7.8								X		X					X	X				X						X	5	3	2	5	5	2	1	1	L	M	X				X	X			
Ericameria nauseosa (rubber rabbitbrush)	NSh		48 in		6	20	90	4,600	9,000	6.0-8.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X		X		X	5	3	2	4	5	3	3	1	L	M	X					X			
Eriogonum umbellatum (sulphur-flower buckwheat)	NF	8)	12 in		8	18	70	5,000	10,500	6.5-9.0	X	X	X	X	X	X	X	X	X											X	X			X		X	3	2	1	5	5	2	5	1	L	L	X					X			
Falugia paradoxa (Apacheplume)	NSh		6 ft		10	20	120	4,500	8,500	7.0-8.0			X					X	X											X	X					X	5	3	1	5	5	2	2	1	L	L	X					X			
Festuca arizonica (arizona fescue - Redondo)	NCB	8)	24 in		14	20	70	6,500	11,600	6.3-7.7	X			X		X	X	X									X	X		X	X					X	3	2	1	5	3	2	1	1	L	L	X				X	X			
Festuca idahoensis (Idaho fescue)	NCB	8)	24 in		16	20	90	7,000	10,000	5.6-8.4	X			X	X	X	X	X										X	X		X	X					3	2	2	5	2	3	1	3	L	M	X				X	X			
Festuca ovina (sheep fescue - Covar)	NCB	8)	6 in		10	20	70	6,500	14,000	5.5-8.0	X	X		X	X	X	X	X	X								X	X	X	X	X	X				X	3	3	1	1	5	3	1	1	M	L	X				X	X			
Festuca rubra (red fescue)	ICS	5)	24 in	FAC	18	70	70	7,000	11,200	5.0-7.5						X	X										X	X	X	X	X	X			X	X	3	5	3	5	3	5	2	1	H	M	X		X				X		X
Festuca thurberi (Thurber's fescue)	NCB	8)	24 in		16	24	70	6,500	12,200	6.0-8.0				X		X	X											X	X		X	X				X	3	3	2	2	3	3	2	1	M	L	X				X	X			
Festuca trachyphylla (hard fescue - Durar)	ICB	8)	15 in		14	26	70	6,500	14,000	4.5-8.0	X			X	X	X	X	X										X	X		X	X				X	3	3	1	1	3	3	2	3	L	L	X			X	X				
Fraxinus pensylvanicus (green ash)	NT	5)	35 ft	FACW	10	20	120	3,500	5,700	5.0-8.0								X		X	X				X					X	X	X			X	X	3	3	3	5	3	3	1	3	M	M							X		
Gaillardia aristata (common blanketflower)	NF	8)	24 in		14	30	90	4,900	9,400	5.5-7.9					X	X	X	X												X	X					X	3	2	1	3	3	2	2	1	L	M	X					X			
Geranium richardsonii (Richard's geranium)	NF	5) 8)	36 in	FACU	10	30	70	4,200	12,000	6.1-7.6	X	X	X	X	X	X	X	X	X												X	X			X		3	2	3	3	2	3	1	3	H	H						X	X	X	
Geum macrophyllum perincisum (largeleaf avens)	NSF	6)	24 in	OBL	12	55	90	5,000	10,500	5.0-7.0				X		X	X	X																			3	3	3	3	2	3	1	5	M	M							X		
Glyceria striata (fowl mannagrass)	NS	6)	60 in	OBL	10	60	90	3,500	10,500	4.0-8.0	X	X	X	X	X	X	X	X	X	X	X		X		X												3	3	5	3	2	2	1	5	M	M							X		
Hedysarum boreale (Utah sweetvetch - Timp)	NCL	8)	24 in		12	18	90	4,000	9,500	5.6-8.2	X	X	X	X	X	X	X	X		X	X		X				X	X	X	X	X	X		X		X	3	3	2	4	4	4	3	1	L	L	X				X	X			

Table 6. Perennial Graminoid, Forb and Woody Plant Suitability for Conservation Plantings by Major Land Resource Areas within Colorado

Genus species (common name - Cultivar)	Notes		Mature Height	NWI	Min. Precip inches	Max. Precip inches	Min FFP 32 degree days	Min. Elev	Max Elev	Soil pH Range	MLRA D 34A	D 34B	D 35	D 36	E 47	E 48A	E 48B	E 49	E 51	G 67A	G 67B north	G 67B south	G 69	H 70A	H 72	H 77A	Uplands 1) Slopes > 15% S	L	C	Uplands 1) Slopes < 15% S	L	C	Lowlands 2) Saline Alkaline Moist	Dry	Lowlands 2) Non-Saline Alkaline Moist	Dry	Seedling Vigor 3)	Rate of Spread	Anerobic Tolerance	CaCO3 Tolerance	Drought Tolerance	Fire Tolerance	Salinity Tolerence	Shade Tolerance	Fertility requirement	Water use	Critical Areas	Cross Wind Trap Strips	Filter Strips	Grassed Waterways	Pasture and Hayland	Range	Riparian Areas	Soil Salinity Mgm't - Nonirr.	Wastewater Trtm't Strips
Helianthus maximiliani (Maximilian sunflower - Prairie Gold)	NWF		60 in	FACU	14	25	90	3,500	7,000	6.0-8.0															X					X	X	X				X	5	3	1	3	3	5	2	1	M	M	X					X			
Helianthus nutallii (Nuttall's sunflower)	NCSF	4) 5)	6 ft	FACW	12	20	100	4,500	8,000	5.9-7.5	X	X	X	X	X	X	X	X	X	X	X		X										X		X		3	3	3	2	2	3	3	1	M	M						X	X		
Hesperostipa comata (needleandthread)	NCB	8)	36 in		10	20	90	3,500	10,100	6.6-8.4	X	X	X	X	X	X	X	X	X	X	X		X		X		X	X		X	X					X	2	2	1	3	5	5	1	1	L	L		X			X	X			
Heterotheca villosa (hairy false goldenaster)	NF	8)	36 in		10	26	70	4,000	13,000	6.0-7.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X					X	3	2	1	3	3	5	2	1	L	L	X					X			
Iris missouriensis (Rocky Mountain iris)	NCF	6) 8)	12 in	OBL	24	35	70	7,500	11,000	7.0-8.5				X	X	X	X	X	X																		5	5	5	5	2	5	1	3	L	H							X		
Juncus balticus (Baltic rush)	NCLS	6)	30 in	OBL	10	20	70	3,400	11,500	6.0-9.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X											3	2	5	2	2	5	5	1	L	H							X		
Juncus confusus (Colorado rush)	NCB	5) 8)	12 in	FAC	10	30	70	5,000	12,500	6.0-8.0	X	X	X	X	X	X	X	X																	X		2	2	5	3	2	5	2	3	M	H							X	X	
Juncus drummondii (Drummond's rush)	NCB	5) 8)	18 in	FACW	20	55	70	8,400	13,000	5.4-7.0				X	X	X	X		X																X		3	2	3	3	2	5	1	3	L	M							X	X	
Juncus ensifolius (swordleaf rush)	NCS	4) 5)	24 in	FACW	8	40	80	6,500	9,000	6.0-8.0				X	X	X	X																X		X		2	5	5	3	2	5	3	3	M	H							X	X	
Juncus interior (inland rush)	NCB	5) 8)	36 in	FAC	20	55	90	3,500	8,400	5.7-7.0					X			X	X	X	X		X		X										X		2	2	3	3	2	5	1	3	L	M							X		
Juncus longistylis (longstyle rush)	NCS	4) 5)	20 in	FACW	8	40	80	4,500	10,500	6.0-8.0	X	X	X	X	X	X	X	X	X	X	X												X		X		2	3	5	3	2	5	3	3	M	H							X	X	
Juncus mertensianus (Merten's rush)	NCS	6)	10 in	OBL	10	30	70	4,000	12,000	6.0-8.0		X				X	X	X	X																		2	2	5	3	2	5	1	3	M	H							X		
Juncus nodosus (knotted rush)	NCS	6)	24 in	OBL	14	50	110	3,500	7,500	4.0-7.5	X			X	X			X		X	X																3	5	3	3	3	3	3	1	M	M							X		
Juncus torreyi (Torry's rush)	NCS	5)	18 in	FACW	14	50	85	3,400	8,000	4.5-6.5				X	X			X	X	X	X	X	X	X	X	X									X		3	3	3	2	2	3	1	1	L	M							X		
Juniperus communis (common juniper)	NT		10 ft		14	60	70	5,000	11,300	5.5-8.0	X	X	X	X	X	X	X	X	X											X	X	X				X	2	2	1	5	5	2	1	1	L	L		X							
Juniperus monosperma (oneseed juniper)	NT		20 ft		8	12	120	4,000	7,600	7.0-8.5	X	X	X	X	X			X	X			X	X	X		X				X	X	X				X	3	2	1	5	5	1	1	1	L	L		X							
Juniperus ostoesperma (Utah juniper)	NT		26 ft		12	20	100	4,300	8,500	6.5-8.2	X	X	X	X	X															X	X					X	2	2	1	5	5	2	2	1	L	L		X							
Juniperus scopulorum (rocky mountain juniper)	NT		25 ft		12	26	70	4,000	11,000	5.0-8.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X				X	X					X	2	2	1	5	5	2	2	3	L	L		X							
Juniperus virginiana (eastern redcedar)	NT		25 ft	FACU	12	68	120	3,600	6,000	5.0-8.0										X	X	X	X	X	X	X				X	X	X				X	2	5	2	5	5	2	2	3	L	L		X							
Koelaria macrantha (prairie junegrass)	NCB	8)	18 in		16	20	90	3,400	8,000	6.0-8.0	X			X	X	X	X	X		X	X				X					X	X					X	2	2	1	5	5	5	1	5	M	H					X	X		X	
Krascheninnikovia lanata (winterfat - Hatch)	NSh		24 in		8	16	70	3,800	9,500	6.6-8.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X		X		X	3	3	1	5	5	5	3	3	L	L	X					X			
Leymus angustus (Altai wildrye)	ICB	8) 10)	46 in		14	20	90			5.9-8.5	X	X	X	X	X			X	X	X	X		X		X						X	X		X		X	2	2	1	3	5	5	5	1	L	L					X				
Leymus cinerius (basin wildrye - Magnar, Trailhead)	NCB	4) 5) 8)	48 in	FACU	12	20	70	4,600	10,000	5.6-9.0	X	X	X	X	X	X	X	X	X												X	X	X	X	X	X	3	2	3	5	3	5	5	3	H	H	X	X	X		X	X	X	X	X
Leymus racemosus (mammoth wildrye - Volga)	ICS		36 in		12	60	90		9,500	6.0-9.0	X			X		X		X	X								X	X		X	X			X		X	5	5	1	5	5	3	3	1	M	M	X	X							
Leymus triticoides (beardless wildrye - Shoshone)	NCS	4) 5)	36 in	FAC	14	24	90	4,000	9,500	6.6-9.0				X		X	X	X	X	X	X				X			X	X		X	X	X	X	X	X	2	4	3	5	5	5	5	1	M	L			X		X	X	X		
Liatris punctata (dotted gayfeather)	NWF	8)	24 in		16	26	120	3,500	8,000	6.0-7.8								X		X	X	X	X	X		X				X	X					X	3	2	1	2	5	5	1	1	M	M	X					X			
Linum perenne (blue flax - Appar)	ICF	8)	30 in		10	18	70	5,200	11,000	5.6-8.4	X	X	X	X	X	X	X	X	X	X	X		X							X	X					X	5	2	1	5	3	2	2	1	L	M	X								
Lolium arundinaceum (tall fescue - Alta, Fawn)	ICB	4) 5) 8) 10)	36 in	FACW	16	55	90	4,800	8,700	5.0-9.0	X			X	X	X		X		X	X	X	X								X	X	X	X	X	X	4	2	3	3	3	5	4	3	M	M	X		X		X		X		
Lolium perenne (perennial ryegrass)	ICB	8) 10)	18 in	FACU	16	65	100	4,000	8,000	5.0-8.0	X			X	X	X		X		X	X				X						X	X	X		X		5	3	3	3	2	2	3	1	H	H					X			X	
Lonicera involucrata (twinberry honeysuckle)	NSh		10 ft	FAC	14	32	70	7,000	11,500	5.5-8.0	X	X	X	X	X	X	X	X	X												X	X					5	2	2	5	2	3	1	5	M	H						X		X	
Lotus corniculatus (birdsfoot trefoil)	ICL	4) 5) 8) 10)	14 in	FACU	18	65	70		9,000	5.0-7.7	X	X	X	X	X	X	X	X	X	X	X		X		X					X	X	X	X	X	X	X	3	1	3	3	3	2	3	1	M	M	X		X		X		X		
Lupinus argenteus (silvery lupine)	NCF	8)	18 in		10	45	70	4,800	11,500	7.0-8.0	X	X	X	X	X	X	X	X	X	X	X		X							X	X	X				X	5	5	1	3	3	2	1	1	L	L	X					X			
Medicago sativa (alfalfa)	IL	8) 10)	24 in		16	65	90	4,800	8,500	6.0-8.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X				X	4	2	1	5	4	5	3	1	H	H	X				X			X	

Table 6. Perennial Graminoid, Forb and Woody Plant Suitability for Conservation Plantings by Major Land Resource Areas within Colorado

Genus species (common name - Cultivar)	Notes		Mature Height	NWI	Min. Precip inches	Max. Precip inches	Min FFP 32 degree days	Min. Elev	Max Elev	Soil pH Range	Major Land Resource Area																Soils and Landscape Position 1)										Suitability Ratings 3)										Conservation Plantings								
																											Uplands							Lowlands 2)																						
																											Slopes > 15%			Slopes < 15%				Saline Alkaline		Non-Saline Alkaline																				
																											Soil Textures																													
											D 34A	D 34B	D 35	D 36	E 47	E 48A	E 48B	E 49	E 51	G 67A	G 67B north	G 67B south	G 69	H 70A	H 72	H 77A	S	L	C	S	L	C	Moist	Dry	Moist	Dry	Seedling Vigor	Rate of Spread	Anerobic Tolerance	CaCO3 Tolerance	Drought Tolerance	Fire Tolerance	Salinity Tolerence	Shade Tolerance	Fertility requirement	Water use	Critical Areas	Cross Wind Trap Strips	Filter Strips	Grassed Waterways	Pasture and Hayland	Range	Riparian Areas	Soil Salinity Mgm't - Nonirr.	Wastewater Trtm't Strips
Melica spectabilis (purple oniongrass)	NCS		24 in	UPL	12	30	70	6,500	11,000	6.0-7.5	X	X	X	X	X	X	X	X													X	X				X	2	2	1	2	5	5	2	3	L	L			X		X	X			
Melilotus officinalis (yellow sweetclover)	ICL	8) 10)	36 in	FACU	12	65	90	4,000	9,000	5.0-8.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X		X		X	4	3	2	5	5	5	3	1	H	M	X				X				
Mertensia ciliata (mountain bluebells)	NCF	6) 8)	24 in	OBL	12	65	70	5,400	13,000	6.2-7.2						X	X	X	X																		2	2	3	2	2	3	1	3	H	H							X		
Monarda fistulosa (wildbergamot beebalm)	NSh		36 in		12	24	90	5,000	9,000	6.5-8.5	X	X	X	X	X	X	X	X	X											X	X	X					3	3	2	3	2	5	1	3	M	M						X			
Muhlenbergia asperifolia (alkali muhly)	NWS	4) 5)	12 in	FACW	12	40	100	3,500	8,000	6.0-8.4	X	X	X	X	X			X	X	X	X	X	X	X	X	X					X	X	X		X		2	3	3	5	2	5	5	5	L	H						X	X	X	
Muhlenbergia montana (mountain muhly)	NCB	8)	18 in	UPL	13	30	70	5,500	10,400	6.5-7.5				X		X	X	X	X											X	X					X	3	3	1	5	5	2	1	1	L	M	X					X			
Muhlenbergia pungens (sandhill muhly)	NWS		18 in		8	20	120	3,500	8,000	5.0-7.0								X	X	X	X	X	X	X	X	X	X	X		X	X				X	2	5	1	3	5	5	1	1	L	L						X			
Muhlenbergia racemosa (marsh muhly)	NWS	5)	36 in	FACW	10	35	90	3,500	9,000	5.9-8.0	X	X	X	X	X			X		X	X	X	X	X	X	X				X	X	X			X		2	3	3	3	2	5	2	5	M	M			X			X	X		
Muhlenbergia wrightii (spike muhly - El Vado)	NCB	5) 8)	24 in	FACU	12	20	90	5,000	9,600	5.8-7.5			X	X				X												X	X				X	3	3	3	5	3	2	1	1	L	M	X		X		X	X	X		
Nassella viridula (green needlegrass - Lodorm)	NCB	8)	24 in		14	24	70	3,500	10,000	6.6-8.4	X			X	X	X	X	X	X	X	X	X	X	X	X	X					X	X				X	4	2	2	5	4	3	1	1	M	L	X				X	X			
Oenothera caespitosa (tufted evening-primrose)	NCF	8)	6 in		7		70	4,100	12,800	6.5-8.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X				X	X				X	5	5	1	5	5	3	1	1	L	L	X				X				
Onobrychis viciaefolia (sainfoin - Eski, Remont, Renumex)	ICL	8)	30 in		12	16	90	5,000	8,500	6.0-8.5	X	X	X	X	X	X	X	X	X												X	X				X	5	2	1	5	5	5	2	1	M	L	X				X				
Panicum obtusum (vinemesquite)	NWS	5)	24 in	FACW	8	50	150	3,500	6,000	4.8-7.0												X	X	X		X	X	X		X	X			X	X	2	5	5	3	2	5	1	3	M	H					X	X	X	X	
Panicum virgatum (switchgrass - Alamo, NE-28, Pathfinder)	NWS	4) 5) 10)	60 in	FAC	12	30	140	3,400	7,800	4.5-7.5										X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	2	3	2	3	5	3	1	H	M	X	X	X		X	X	X		X
Panicum virgatum (switchgrass - Blackwell, Grenville)	NWS	4) 5) 10)	60 in	FAC	12	30	120	3,400	7,800	4.5-7.5		X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	2	3	2	3	5	3	1	H	M	X	X	X		X	X	X		X
Pascopyrum smithii (western wheatgrass - Arriba, Barton)	NCS	4) 5) 10)	20 in	FACU	14	20	90	3,600	10,000	4.5-9.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	3	4	3	5	5	5	3	1	M	M	X		X	X	X	X	X		
Pascopyrum smithii (western wheatgrass - Rosana)	NCS	4) 5) 10)	24 in	FACU	14	20	90	3,600	10,000	4.5-9.0	X	X	X	X	X	X	X	X	X									X	X		X	X	X	X	X	3	4	3	5	5	5	3	1	M	M	X		X	X	X	X	X		
Penstemon angustifolius (narrow leaf penstemon)	NCF	8)	36 in		8	35	100	3,500	8,000	7.0-8.5				X		X		X	X		X	X	X		X					X	X	X				X	5	5	1	5	5	1	1	1	L	L	X				X				
Penstemon strictus (rocky mountain penstemon - Bandera)	NCF	8)	18 in		14	24	70	6,000	11,000	6.0-7.5	X			X	X	X	X	X	X											X	X				X	4	3	1	3	3	2	2	3	L	M	X				X				
Penstemon whippleanus (Whipple's penstemon)	NCF	8)	36 in	FACU	13	35	70	8,000	12,500	7.0-8.0				X	X	X	X	X	X											X	X				X	3	3	1	5	3	5	1	3	L	M	X				X				
Phalaris arundinacea (reed canarygrass - loreed, Palaton)	NCS	4) 5) 10)	48 in	FACW	18	60	90	4,500	9,000	4.9-8.2	X	X	X	X	X	X	X	X	X												X	X	X	X	X	X	4	4	5	3	3	3	3	1	H	H	X	X	X	X	X	X	X	X	X
Phleum alpinum (alpine timothy)	NCS	5)	16 in	FAC	16	60	70	7,800	13,000	5.0-7.5				X	X	X	X	X	X												X	X			X		3	2	3	2	2	5	1	3	M	M			X		X	X	X		
Phleum pratense (timothy - Itasco)	ICB	5) 8) 10)	30 in	FACU	18	65	90	4,500	11,500	5.0-7.8	X	X	X	X	X	X	X	X	X												X	X			X		3	2	3	5	2	3	2	3	M	M					X		X		
Phragmites australis (common reed)	NWS	5)	10 ft	FACW	12	60	90	3,500	8,900	4.5-8.0	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				X	X	X			X		4	3	5	3	2	5	1	1	M	M		X				X	X		
Picea engelmannii (engelmann spruce)	NT	5)	100 ft	FACU	20	45	70	8,100	12,000	6.0-8.0					X	X	X	X	X												X	X			X		2	2	3	5	2	2	1	3	L	M							X		
Picea pungens (Colorado blue spruce)	NT	5)	100 ft	FAC	18	45	80	6,000	9,500	5.5-7.8				X	X	X	X	X	X											X	X				X	X	2	3	3	5	3	2	1	3	M	M							X		
Pinus ponderosa (ponderosa pine)	NT		100 ft	FACU	15	25	80	5,400	9,300	5.0-9.0				X	X	X	X	X	X											X	X				X	5	2	1	2	5	5	1	1	L	M									
Pleuraphis jamesii (galleta grass - Viva)	NWS		18 in		10	18	90	3,600	10,800	6.6-8.4	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	2	3	1	5	5	3	3	1	L	L			X		X	X			
Poa alpina (alpine bluegrass - Gruening)	NCS	5)	18 IN	FACU	20	55	70	8,100	13,500	5.0-7.2						X	X	X	X								X	X		X	X				X	X	5	2	3	2	3	5	1	3	L	L	X		X			X	X		
Poa compressa (Canada bluegrass - Reubens, Talon)	ICS		24 in	FACU	15	45	80	3,500	9,500	5.0-7.0				X	X	X	X	X	X	X		X		X		X	X	X	X	X	X	X		X		X	3	2	1	3	3	5	3	5	L	M					X				
Poa fendleriana (muttongrass)	NCB	8)	24 in	UPL	10	18	70	4,000	13,900	6.0-8.0	X	X	X	X	X	X	X	X	X	X	X									X	X	X				X	2	2	1	5	5	2	1	1	L	L					X	X			
Poa palustris (fowl bluegrass)	NCS	5) 8)	18 in	FACW	18	50	70	4,000	12,000	4.9-7.5				X	X	X	X	X	X		X														X		3	3	3	3	2	5	1	3	M	M						X	X		
Poa pratensis (Kentucky bluegrass)	ICS	5) 10)	18 in	FACU	18	65	70	4,000	12,200	5.0-8.4	X	X	X	X	X	X	X	X	X	X	X		X		X			X	X		X	X			X		4	4	3	5	2	5	1	3	H	H					X		X	X	

Table 6. Perennial Graminoid, Forb and Woody Plant Suitability for Conservation Plantings by Major Land Resource Areas within Colorado

Genus species (common name - Cultivar)	Notes		Mature Height	NWI	Min. Precip inches	Max. Precip inches	Min FFP 32 degree days	Min. Elev	Max Elev	Soil pH Range	Major Land Resource Area																Soils and Landscape Position 1): Uplands, Soil Textures: Slopes > 15%			Slopes < 15%			Lowlands 2): Saline Alkaline		Non-Saline Alkaline		Suitability Ratings 3)										Conservation Plantings								
											D 34A	D 34B	D 35	D 36	E 47	E 48A	E 48B	E 49	E 51	G 67A	G 67B north	G 67B south	G 69	H 70A	H 72	H 77A	S	L	C	S	L	C	Moist	Dry	Moist	Dry	Seedling Vigor	Rate of Spread	Anerobic Tolerance	CaCO3 Tolerance	Drought Tolerance	Fire Tolerance	Salinity Tolerence	Shade Tolerance	Fertility requirement	Water use	Critical Areas	Cross Wind Trap Strips	Filter Strips	Grassed Waterways	Pasture and Hayland	Range	Riparian Areas	Soil Salinity Mgm't - Nonirr.	Wastewater Trtm't Strips
Poa secunda (big bluegrass - Sherman)	NCB	8) 10)	36 in	FACU	15	22	70	5,000	10,000	6.0-8.0				X	X	X	X	X												X	X	X				X	3	2	2	5	3	2	1	3	M	M	X				X	X			
Poa secunda (Canby/Sandberg bluegrass)	NCB	8)	12 in	FACU	12	22	70	4,500	13,000	6.0-8.0				X	X	X	X	X												X	X	X	X	X	X	X	2	2	3	5	5	2	3	3	M	M			X		X	X	X		
Populus angustifolia (narrowleaf cottonwood)	NT	5)	60 ft	FACW	16	35	90	5,000	9,500	6.0-7.5	X	X	X	X	X	X	X	X	X											X	X		X	X	X	X	2	2	5	5	5	3	3	1	L	H							X	X	
Populus deltoides monilifera (plains cottonwood)	NT	5)	80 ft	FACW	20	55	100	3,500	6,500	4.6-6.5								X		X	X	X	X	X	X	X				X	X	X			X	X	5	5	5	3	3	5	1	1	M	H							X	X	
Populus fremontii (freemont cottonwood)	NT	5)	50 ft	FACW	12	24	120	4,000	7,000	6.0-8.0	X	X	X	X	X			X												X	X	X	X	X	X	X	3	3	5	3	5	3	3	1	M	H							X	X	
Populus tremuloides (quaking aspen)	NT		40 ft		16	40	70	6,000	11,700	6.0-9.0				X	X	X	X	X	X											X	X	X		X		X	2	3	2	5	3	5	3	1	M	H								X	
Prunus americana (American plum)	NT		24 ft	FACU	16	40	100	3,500	6,000	5.0-7.0								X		X	X	X	X	X	X	X				X	X						5	2	2	5	1	3	2	1	M	M									
Prunus pumila besseyi (bessey sandcherry)	NSh		36 in		12	24	100	3,500	6,500	5.3-7.5								X		X	X	X	X	X	X	X				X							5	2	1	5	2	3	2	1	M	M						X			
Prunus virginiana (chokecherry)	NSh	4) 5)	15 ft	FACU	10	65	90	4,400	9,300	5.2-8.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	3	2	3	5	5	5	3	1	M	M	X					X	X		
Psathyrostachys juncea (Russian wildrye - Vinall, Swift, Bozoisky)	ICB	8) 10)	24 in	FACU	10	30	100	5,500	7,000	6.6-9.0	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X		X	X	X	X	X	X	4	1	3	2	5	3	3	3	L	L	X		X		X				
Pseudorogneria spicata inermis (beardless wheatgrass - Whitmar)	NCB	8)	20 in		10	35	90	4,500	8,500	6.4-8.4	X			X	X	X	X	X	X											X	X	X				X	2	2	2	5	5	2	2	1	L	L					X	X			
Pseudorogneria spicata spicata (bluebunch wheatgrass - Goldar)	NCB	8)	24 in	UPL	10	35	90	5,000	9,500	6.6-8.4	X	X	X	X	X															X	X	X				X	3	2	1	5	5	2	2	1	L	L	X				X	X			
Pseudotsuga menziesii glauca (rocky mountain douglas fir)	NT		100 ft		12	24	65	6,000	11,000	5.9-7.2				X	X	X	X	X	X											X	X					X	3	2	2	3	5	3	1	1	M	M									
Puccinellia nuttalliana (Nuttall's alkaligrass)	NCS	6)	12 in	OBL	24	45	90	4,500	9,500	6.5-8.5				X	X	X	X	X	X		X																2	3	5	3	2	5	5	1	L	M						X	X		
Purshia tridentata (antelope bitterbrush - Maybell)	NSh		4 ft		12	36	90	5,000	9,000	5.6-8.4	X	X	X	X	X	X	X	X												X	X					X	3	2	2	5	5	1	1	3	M	L	X					X			
Quercus gambelii (gambel oak)	NT		10 ft		10	24	90	4,000	8,500	6.5-8.0	X	X	X	X	X	X	X	X												X	X						2	3	1	5	2	5	1	1	M	L									
Ratibida columnifera (upright prairie coneflower)	NWF	8)	3 ft		16	40	90	3,500	7,000	5.9-7.0										X	X	X	X	X	X	X				X	X	X				X	3	2	1	2	3	5	2	1	M	M	X					X			
Rhus trilobata (skunkbush sumac - Bighorn)	NSh		4 ft	NI	8	20	90	3,500	9,000	6.5-8.2	X	X	X	X	X			X	X	X	X	X	X	X	X	X				X	X					X	2	2	1	2	3	3	2	3	L	L						X			
Ribes aureum (golden currant)	NSh	5)	5 ft	FACW	12	20	90	3,500	8,000	6.0-8.0	X	X	X	X	X			X	X	X	X	X	X	X	X	X					X				X	X	5	5	3	5	3	3	1	3	H	L	X					X	X		
Ribes cereum (wax currant)	NSh		3 ft	NI	13	35	70	4,000	11,400	6.5-7.5	X			X	X	X	X	X	X		X		X							X	X					X	3	3	1	5	5	5	1	1	L	L	X					X			
Ribes montigenum (gooseberry currant)	NSh		2 ft		10	35	70	7,500	11,500	7.0-8.0						X	X	X	X											X	X					X	5	5	1	3	5	3	1	3	M	M	X					X			
Rosa woodsii (woods rose)	NSh		3 ft	FAC	12	40	70	3,500	11,700	5.0-8.0	X	X	X	X	X	X	X	X	X	X	X				X					X	X					X	3	5	1	2	3	5	1	3	M	M	X					X			
Rubus parviflorus (thimbleberry)	NSh		4 ft	FAC	20	45	70	7,000	10,000	4.8-7.2						X	X														X	X				X	2	3	2	5	3	5	1	3	M	H						X		X	
Sagittaria latifolia (arrowhead)	NF	6) 8)	18 in	OBL	14	50	95	3,500	6,000	4.7-8.6								X		X	X				X													5	5	5	1	1	3	1	L	H							X		
Salix amygdaloides (peachleaf willow)	NT	5)	30 ft	FACW	24	60	80	3,500	9,500	6.0-8.0							X	X	X	X	X	X	X	X	X	X				X	X				X		2	3	3	3	2	5	1	1	M	H							X	X	
Salix bebbiana (Bebb willow)	NT	5)	10 ft	FACW	20	60	80	5,000	9,600	5.5-7.5				X	X	X	X	X	X											X	X				X		2	2	3	2	1	5	1	1	M	H							X	X	
Salix boothii (Booth's willow)	NSh	6)	10 ft	OBL	55	125	70	5,300	10,500	5.5-8.0						X	X													X	X				X		3	5	3	3	2	3	1	1	L	H							X		
Salix drummondiana (Drummond's willow)	NSh	5)	12 ft	FACW	16	40	70	7,500	11,100	5.2-7.4	X				X	X	X													X	X	X			X		2	2	3	3	2	5	1	3	M	H						X	X	X	
Salix exigua (sandbar willow)	NT	6)	15 ft	OBL	20	30	80	5,000	9,000	6.0-8.5	X			X	X	X	X	X	X	X	X	X	X	X	X	X											3	3	5	5	3	5	2	1	L	H							X		
Salix geyeriana (Geyer's willow)	NT	5)	15 ft	FACW	19	69	70	5,000	11,800	6.5-7.5						X	X														X	X			X		5	5	3	2	1	5	1	1	L	H							X	X	
Salix planifolia (planeleaf willow)	NT	6)	5 ft	OBL	18	60	70	7,000	13,000	4.5-6.0					X	X	X	X																			2	2	3	1	2	5	1	1	L	M							X		
Salix scouleriana (Scouler's willow)	NT	5)	35 ft	FAC	11	40	70	6,500	11,000	6.5-8.0	X	X		X	X	X	X	X												X	X	X			X	X	2	2	3	5	3	5	2	3	L	H							X		
Sambucus nigra cerulea (blue elderberry)	NSh	5)	10 ft	FACU	10	60	80	5,500	8,500	4.9-7.5	X	X	X	X	X			X		X	X	X	X							X	X				X	X	5	3	3	3	5	3	2	1	L	L	X					X	X		

Table 6. Perennial Graminoid, Forb and Woody Plant Suitability for Conservation Plantings by Major Land Resource Areas within Colorado

Genus species (common name - Cultivar)	Notes		Mature Height	NWI	Min. Precip inches	Max. Precip inches	Min FFP 32 degree days	Min. Elev	Max Elev	Soil pH Range	Major Land Resource Area																Soils and Landscape Position 1) Uplands Slopes > 15% Soil Textures			Uplands Slopes < 15% Soil Textures			Lowlands 2) Saline Alkaline		Lowlands 2) Non-Saline Alkaline		Suitability Ratings 3)										Conservation Plantings								
											D 34A	D 34B	D 35	D 36	E 47	E 48A	E 48B	E 49	E 51	G 67A	G 67B north	G 67B south	G 69	H 70A	H 72	H 77A	S	L	C	S	L	C	Moist	Dry	Moist	Dry	Seedling Vigor	Rate of Spread	Anerobic Tolerance	CaCO3 Tolerance	Drought Tolerance	Fire Tolerance	Salinity Tolerence	Shade Tolerance	Fertility requirement	Water use	Critical Areas	Cross Wind Trap Strips	Filter Strips	Grassed Waterways	Pasture and Hayland	Range	Riparian Areas	Soil Salinity Mgm't - Nonirr.	Wastewater Trtm't Strips
Sanguisorba minor (small burnet - Delar)	NCF	8)	16 in	FACU	12	25	90	4,200	6,000	6.0-8.0	X			X	X															X	X	X					3	3	2	3	2	5	3	3	L	M					X	X			
Schizachyrium scoparium (little bluestem - Pastura)	NWB	8) 10)	24 in	FACU	12	40	90	3,500	9,500	5.6-8.4						X		X		X	X	X	X	X	X	X	X	X	X	X	X	X				X	4	2	2	5	5	3	1	1	L	L	X			X	X	X			
Schoenoplectus acutus (hardstem bulrush)	NS	6)	9 ft	OBL	12	60	80	3,500	9,000	5.2-8.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X											3	5	5	3	3	3	3	1	M	H							X		
Schoenoplectus maritimus (alkali bulrush)	NS	6)	36 in	OBL	24	60	80	4,000	9,500	4.0-9.0	X			X	X			X	X	X	X	X	X	X		X											3	3	5	3	2	3	5	1	L	M							X		
Schoenoplectus pungens pungens (common threesquare)	NS	6)	48 in	OBL	12	60	80	3,800	9,300	5.7-7.5	X	x	X	X	X		X	X	X	X	X	X	X	X	X	X											3	5	5	3	2	3	3	1	M	H							X		
Schoenoplectus tabernaemontani (softstem bulrush)	NS	6)	6 ft	OBL	18	55	80	3,500	8,000	5.4-7.5	X			X	X			X	X	X	X	X	X	X	X	X											2	5	5	3	1	5	3	1	L	H							X		
Scirpus microcarpus (small fruited bulrush)	NS	6)	3 ft	OBL	12	38	80	4,500	8,600	5.4-7.4	X	X	X	X	X		X	X	X	X	X		X														2	5	5	2	1	5	1	1	L	M							X		
Scirpus pallidus (pale bulrush)	NS	6)	5 ft	OBL	16	28	80	3,500	6,500	5.3-7.2	X			X	X			X		X	X	X	X	X		X											2	2	5	2	2	5	1	1	L	M							X		
Shepherdia argentea (silver buffaloberry)	NLSh		12 ft	FACU	12	20	110	3,800	7,500	5.3-8.0	X	X	X	X	X															X	X		X	X	X	X	3	5	3	5	5	3	5	3	L	M	X					X	X		
Shepherdia canadensis (russet buffaloberry)	NLSh		6 ft	UPL	15	30	70	7,500	11,000	5.3-8.0						X	X	X												X	X					X	3	5	2	5	5	3	1	3	L	M	X					X			
Sorghastrum nutans (yellow indiangrass - Cheyenne, Holt, Llano)	NWS	5) 10)	55 in	FACW	16	30	130	3,500	6,800	4.5-8.0								X		X	X	X	X	X	X	X				X	X		X	X	X	X	3	2	3	5	3	5	3	3	H	M	X		X		X	X	X		X
Sparganium eurycarpum (giant bur-reed)	NS	6)	48 in	OBL	10	50	95	3,400	7,500	5.0-8.5								X	X	X	X				X												5	5	5	3	1	1	3	3	L	H							X		
Spartina pectinata (prairie cordgrass)	NWS	4) 5)	60 in	FACW	18	35	110	3,500	7,000	6.0-8.5								X		X	X	X	X	X	X	X				X	X		X		X		3	5	5	3	2	5	3	1	M	H					X	X	X	X	
Sphaeralcea coccinea (scarlet globemallow)	NF	8)	12 in		10	35	90	3,500	9,000	7.0-7.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X					X	5	5	1	5	5	3	2	1	L	L	X					X			
Sporobolus airoides (alkali sacaton - Salado)	NWB	4) 5) 7) 8) 10)	24 in	FAC	10	20	110	3,400	8,000	6.6-9.0	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	3	2	3	5	3	3	5	1	M	L	X		X	X	X	X	X		
Sporobolus cryptandrus (sand dropseed)	NWB		20 IN	FACU	10	16	150	3,500	9,400	6.6-8.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X			X	X	X	X	3	5	3	3	5	3	3	1	L	L	X		X			X	X		
Symphoricarpus albus (common snowberry)	NCSh		4 ft	FACU	12	45	90	5,500	7,900	6.0-7.8	X			X	X			X												X	X	X	X	X	X	X	3	3	3	3	5	5	3	3	M	M	X					X	X		
Symphoricarpus occidentalis (western snowberry)	NCSh	5)	3 ft	FAC	12	45	70	3,500	10,000	6.6-8.0	X				X	X	X	X		X	X				X						X				X	X	3	3	3	3	5	5	2	3	M	L	X					X	X		
Symphoricarpus oreophilus (mountain snowberry)	NCSh		3 ft	FACU	12	40	70	5,500	10,500	5.2-8.2	X	X	X	X	X	X	X	X	X											X	X				X	X	3	2	3	3	5	5	2	3	L	L	X					X	X		
Thinopyrum intermedium (intermediate wheatgrass - Amur)	ICS	10)	30 in		15	28	90	3,500	9,000	5.6-8.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X			X	X	5	3	3	5	3	5	2	1	M	M	X		X	X	X				
Thinopyrum intermedium (intermediate wheatgrass - Tegmar, Oahe)	ICS	10)	30 in		15	28	90	3,500	9,000	5.6-8.5				X	X	X	X	X	X									X	X		X	X			X	X	5	3	3	5	3	5	2	1	M	M	X		X	X	X				
Thinopyrum intermedium (pubescent wheatgrass - Luna, Manska)	ICS	10)	24 in		14	30	90	3,500	9,000	5.6-8.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X				X	X	5	3	3	5	4	5	2	1	M	L	X		X	X	X				
Thinopyrum ponticum (tall wheatgrass - Jose)	ICB	4) 5) 7) 8) 10)	48 in		16	28	90	4,800	9,000	6.6-10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	4	1	3	5	3	3	5	1	M	M	X	X	X	X	X		X		
Thinopyrum ponticum (tall wheatgrass - Largo)	ICB	4) 5) 7) 8) 10)	48 in		16	28	90	4,800	9,000	6.6-10	X	X	X	X	X	X	X	X	X	X	X	X			X						X	X	X	X	X	X	4	1	3	5	3	3	5	1	M	M	X	X	X	X	X		X		
Trifolium fragiferum (strawberry clover)	IL	4) 5) 7) 8) 10)	6 in	FACW	14	30	110	4,500	5,500	6.0-8.4	X	X	X	X	X					X	X	X	X	X		X					X		X		X		2	3	5	3	2	5	3	1	M	H					X		X	X	
Trifolium hybridum (alsike clover)	ICSL	5) 10)	12 in	FAC	14	60	70	4,500	10,300	6.0-7.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X		X		4	4	5	3	2	2	3	1	M	M					X		X		
Trifolium pratense (red clover)	IL	8) 10)	24 in	FACU	12	30	70	4,500	10,000	6.0-7.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X				X	X	X					5	2	1	3	2	3	1	1	M	M					X				
Trifolium repens (white clover - Ladino)	ICL	5) 8) 10)	8 in	FACU	14	70	70	4,800	11,100	6.0-7.5	X	X	X	X	X	X	X	X	X	X	X		X								X	X			X		2	4	3	3	2	5	1	3	M	M					X		X		
Typha latifolia (broadleaf cattail)	NS	6)	120 in	OBL	60	200	100	3,600	7,600	5.5-7.5	X	X	X	X	X			X	X	X	X	X	X	X	X	X												5	5	3	1	5	2	3	M	H							X		
Vicia americana (American vetch)	NCSL		14 in	FAC	9	50	70	3,500	10,500	5.9-7.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X					X	2	2	1	2	5	3	2	1	H	L					X	X			

Notes: **I** = introduced; **N** = native; **C** = cool season; **W** = warm season; **B** = bunchgrass; **S** = sodformer; **F** = forb; **L =** legume; **T** = tree; **Sh** = shrub; **NWI** = National Wetlands Indicator **(OBL** = Obligate Wetland, **FACW** = Facultative Wetland, **FAC** = Facultative, **FACU** = Facultative Upland, **UPL** = Obligate Upland); **FFP** = Freeze Free Period; **1)** Soils and Landscape Positions are general (**S** = sandy soils, **L** = loamy soils, **C** = clayey soils); **2)** Low lying areas which receive additional water from higher ground; **3)** Suitability ratings (**1** = poor, **2** = fair, **3** = moderate, **4** = good, **5** = excellent, **L** = low, **M** = medium, **H** = high); **4)** Suited for moist, saline lowland sites; **5)** Suited for moist lowland sites; **6)** Suited for wetland sites; **7)** Will tolerate prolonged periods (3 to 4 days) of inundation; **8)** Mix with sod-formers; **9)** A bunchgrass which turns sod-former under continuous grazing; **10)** Suited for irrigated sites.

References: USDA, NRCS. 2001. The PLANTS Database, Version 3.1 (http://plants.usda.gov). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.; Hassell, Wendell G. and Leonard Jurgens. 1988. Recommended grass cultivars for use by MLRAs in Colorado. USDA, SCS, Colorado Plant Materials Technical Note No. 59.; Dittberner, P.L., and M. R. Olson. 1983. The plant information network (PIN) database: Colorado, Montana, North Dakota, Utah, and Wyoming. US Fish Wildl Serv. FWS/OBS-83/36. 786 pp.; Thornburg, Ashley A. 1982. Plant materials for

Table 6. Perennial Graminoid, Forb and Woody Plant Suitability for Conservation Plantings by Major Land Resource Areas within Colorado

Genus species (common name - Cultivar)	Notes	Mature Height	NWI	Min. Precip inches	Max. Precip inches	Min FFP 32 degree days	Min. Elev	Max Elev	Soil pH Range	Major Land Resource Area																Soils and Landscape Position 1)										Suitability Ratings 3)											Conservation Plantings								
																										Uplands						Lowlands 2)																									
																										Slopes > 15%				Slopes < 15%				Saline Alkaline				Non-Saline Alkaline																			
																										Soil Textures																															
										D 34A	D 34B	D 35	D 36	E 47	E 48A	E 48B	E 49	E 51	G 67A	G 67B north	G 67B south	G 69	H 70A	H 72	H 77A	S	L	C	S	L	C	Moist	Dry	Moist	Dry	Seedling Vigor	Rate of Spread	Anerobic Tolerance	CaCO3 Tolerance	Drought Tolerance	Fire Tolerance	Salinity Tolerence	Shade Tolerance	Fertility requirement	Water use	Critical Areas	Cross Wind Trap Strips	Filter Strips	Grassed Waterways	Pasture and Hayland	Range	Riparian Areas	Soil Salinity Mgm't - Nonirr.	Wastewater Trtm't Strips
use on surface-mined lands in arid and semiarid regions. USDA, SCS-TP-157. 88 pp.; Wasser, C.H. 1982.Ecology and culture of selected species useful in revegetating disturbed lands in the west. US Dept. Int., Fish Wildl. Serv. FWS/OBS-82/56. 347 pp.																																																									