

Species Proper Name	Growth Form	Mean	% Compositae	Climax %	Species Code	Common Name	Longevity	Origin	MrPhy01	MrPhy02	MrPhy03	MrPhy04	MrPhy05	MrPhy06	MrPhy07	MrPhy08	MrPhy09	MrPhy10	MrPhy11	MrPhy12	MrPhy13	MrPhy14	MrPhy15	MrPhy16	MrPhy17		
Amorpha alba L.	Forbshrb	1.82	0.74		AMAL	prostrate gorseweed	annual	native	10.13	15.45	0.59			1.33	1.82											0.17	
Gnaphalium squarrososum (Pursh) Dunal	Forbshrb	1.14	0.46		GRSO	cutleaf gumweed	perennial	native					0.22	18.00													
Galeria secunda (L.) Sonder	Forbshrb	0.80	0.30		GASE3	crested galenia	annual	introduced														12.80					
Phacelia orbicunda Greene	Forbshrb	0.71	0.29		PHFL	southern island phacelia	annual	native					1.65				4.96	4.80									
Lupinus arizonicus (S. Wats.) S. Wats.	Forbshrb	0.56	0.23		LIAR4	Arizona lupine	annual	native														9.00					
Penstemon strictus Benth.	Forbshrb	0.53	0.22	<5	PEST2	Rosky Mountain penstemon	perennial	native				0.48	8.00														
Astragalus L.	Forbshrb	0.49	0.20		ASTRA	milkveitch	perennial	native	7.41						0.40												
Astragalus convallatus Greene	Forbshrb	0.40	0.16		ASCO12	lesser rusty milkveitch	perennial	native			0.09		0.90													5.40	
Abies crandallii B.L. Robins.	Forbshrb	0.31	0.13		ARCR6	Crandall's rockcross	perennial	native													5.00						
Mateuccia struthiopteris (L.) Todaro	Forbshrb	0.30	0.12		MAST	ostrich fern	perennial	native					4.80														
Haucheria parvifolia Nutt. ex Torr. & Gra	Forbshrb	0.23	0.09		HEPA11	fileleaf alumroot	perennial	native				3.60															
Alnus latifolia (Nutt.) A. & D. Lo	Forbshrb	0.21	0.09		ALPA14	skatal	perennial	native													1.00					2.40	
Eriogonum L.	Forbshrb	0.18	0.07		ERIGE2	feabane	perennial	native					2.82														
Phlox hoodii Richards.	Forbshrb	0.17	0.07		PHHO	spiny phlox	perennial	native														1.23				1.50	
Lomatium eastwoodiae (Cout. & Rose) J.F	Forbshrb	0.16	0.07		LOEA	Eastwood's desertparsley	perennial	native			2.63																
Penstemon harringtonii Perd.	Forbshrb	0.16	0.06		PEHA11	Harrington's beardtongue	perennial	native														0.88				1.65	
Balsamorhiza sagittata (Pursh) Nutt.	Forbshrb	0.16	0.06	<5	BASA3	arrowleaf balsamorhiz	perennial	native									2.50										
Antennaria rosea Greene	Forbshrb	0.15	0.06		ANPU2	rosy pussytoes	perennial	native				2.40															
Lappula occidentalis (S. Wats.) Greene	Forbshrb	0.15	0.06		LADC3	fatsipine stickseed	Biennial	native													2.40						
Achillea millefolium L.	Forbshrb	0.13	0.05		ACMI2	common yarrow	perennial	native and														1.60				0.50	
Senecio L.	Forbshrb	0.11	0.05		SENEC	agnost	perennial	native				1.80															
Senecio multilobatus Torr. & Gray ex Gra	Forbshrb	0.11	0.04		SEMU3	lobleaf groundsel	perennial	native															0.19			1.50	
Descurainia sophia (L.) Webb ex Prantl	Forbshrb	0.09	0.04		DESO2	heeb sophia	annual	introduced					1.50														
Cardaria draba (L.) Desv.	Forbshrb	0.09	0.04		CADR	whitetop	perennial	introduced															1.40				
Ipomopsis aggregata (Pursh) V. Grant	Forbshrb	0.08	0.03		IPAG	scarlet gilia	perennial	native				0.70											0.50				
Penstemon Schmidtii	Forbshrb	0.08	0.03		PENST	beardtongue	perennial	native							1.20												
Abies fendleri (S. Wats.) Greene	Forbshrb	0.07	0.03		ARFE	Fendler's rockcross	perennial	native			0.50											0.60					
Thlasca arvensis (Pursh) Benth.	Forbshrb	0.07	0.03		THLA	reverser's spiderwort	perennial	native			1.10																
Draba cuneifolia Nutt. ex Torr. & Gray	Forbshrb	0.06	0.02		DRCU	wedgleaf draba	annual	native													0.26	0.65					
Astragalus miser Dougl.	Forbshrb	0.05	0.02		ASMR	fringe milkveitch	perennial	native				0.80															
Lesquerella alpina (Nutt.) S. Wats.	Forbshrb	0.04	0.02		LEAL	alpine bladderpod	perennial	native				0.70															
Tetrasaule acutis (Pursh) Greene	Forbshrb	0.04	0.02		TEAC	stemless four-nerve daisy	perennial	native															0.66				
Eriogonum Nutt.	Forbshrb	0.04	0.02		ERIGE	erigenia	perennial	native			0.29		0.36														
Chorizanthe viscidula Davenport	Forbshrb	0.04	0.02		CHVZ	viscid lifefern	perennial	native	0.62																		
Androsace septentrionalis L.	Forbshrb	0.04	0.02		ANSE4	pygmyflower rockjasmine	perennial	native				0.60															
Cryptantha Lehmann ex G. Don	Forbshrb	0.03	0.01		CRYPT	cryptantha	perennial	native				0.38		0.17													
Lactuca serotia L.	Forbshrb	0.03	0.01		LASE	prickly lettuce	Biennial	introduced					0.40														
Physaria acutifolia Rydb.	Forbshrb	0.02	0.01		PHAC4	sharpleaf winteroot	perennial	native			0.08						0.16									0.14	
Allium geveii S. Wats.	Forbshrb	0.02	0.01		ALGE	Geyer's onion	perennial	native						0.30													
Cirsium P. Mill.	Forbshrb	0.02	0.01		CIRS1	fristle	perennial	native				0.30															
Chenopodium L.	Forbshrb	0.01	0.01		CHENO	goosefoot	perennial	native			0.20																
Polygonum douglasii Greene	Forbshrb	0.01	0.00		PODO4	Douglas' knotweed	annual	native																		0.18	
Arnica montana L.	Forbshrb	0.01	0.00		ARNI	annual broadleaf	annual	native															0.03			0.10	
Brassica L.	Forbshrb	0.01	0.00		BRASS2	mustard	perennial	native									0.10										
Chenopodium descendens A. Nels.	Forbshrb	0.00	0.00		CHDE	arkland goosefoot	annual	native					0.05														
Descurainia pinnata (Walt.) Brit.	Forbshrb	0.00	0.00		DEPI	western tansymustard	annual	native																			
Perennial Forb	Forbshrb	0.00	0.00				perennial broadleaf	perennial			0.02		0.02														
Lepidium L.	Forbshrb	0.00	0.00		LEPID	pepper weed	perennial	native				0.01															
Total for Forbs			4	10					18	16	4	1	26	4	22	2	2	8	20	10	11	1	2	11			
Poa pratensis L.	Graminoid	17.02	6.91		POPR	Kentucky bluegrass	perennial	native and					6.00													4.50	
Achnatherum hymenoides (Roemer & J.A. Sc	Graminoid	4.62	1.88	10 to 15	ACHY	indian ricegrass	perennial	native	0.47	0.14			0.90	0.92	1.20	12.67				10.20	39.67	1.60			5.01	1.20	
Poa fendleriana (Steud.) Vasey	Graminoid	2.31	0.94	<10	FOFE	muton grass	perennial	native			15.11		0.90			14.40	2.10					0.40					
Agropyron cristatum (L.) Gaern.	Graminoid	1.49	0.60		AGCR	crested wheatgrass	perennial	introduced					23.76														
Koeleria macrantha (Ledeb.) J.A. Schult	Graminoid	1.14	0.46	<10	KOMA	prairie Junegrass	perennial	native	0.39				1.68	6.30			2.54							0.54	0.80	6.00	
Poa secunda J. Presl	Graminoid	1.13	0.46		POSE	Sandberg bluegrass	perennial	native					14.70													2.73	
Carex geyeri Boott.	Graminoid	0.95	0.42	0 to 3	CAGE2	Geyer's sedge	perennial	native							1.32												
Elymus elymoides (Raf.) Swezey	Graminoid	0.86	0.35		ELLS	squarreltail	perennial	native				0.95	0.38	0.30		4.13	0.94	2.40	0.80	0.80	0.31			15.00	0.24	3.00	
Pseudoroegneria spicata (Pursh) A. Love	Graminoid	0.81	0.33	10 to 15	PSSP6	bluebunch wheatgrass	perennial	native	2.33				1.80													6.24	
Carex polytricha MacKenzie	Graminoid	0.36	0.15		CAPT	living sedge	perennial	native				3.80									0.80	0.50				0.90	
Nassella viridula (Torr.) Barkworth	Graminoid	0.34	0.14		NAVA	green needlegrass	perennial	native															5.40				
Poa nervosa (Hook.) Vasey	Graminoid	0.33	0.13		PONE2	wheeler bluegrass	perennial	native				5.20															
Bromus tectorum L.	Graminoid	0.28	0.11		BROM	cheatgrass	annual	introduced			1.41						1.85				0.70			0.95	0.15		
Carex L.	Graminoid																										

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<i>Quercus gambelii</i> Nutt.	Shrub	32.08	13.03	<0	OUJA	gambel oak	perennia	native	9.43				45.01	4.71	1.30	46.59			62.11	28.63		61.94							55.43	
<i>Cercocarpus montanus</i> Raf.	Shrub	10.41	4.23	0 to 10	CEM02	adlerleaf mountain mahogany	perennia	native	12.19	3.73	2.77		2.83	23.29		0.75			57.00	56.12	3.89								1.08	
<i>Amelanchier utahensis</i> Koehne	Shrub	9.32	3.79		AMUT	Utah serviceberry	perennia	native					32.56		1.01				42.00	48.09		18.02							7.45	
<i>Symphoricarpos rotundifolius</i> Gray	Shrub	3.29	1.34		SYRO	roundleaf snowberry	perennia	native					4.63						3.67	0.90	0.06	41.80							1.62	
<i>Artemisia tridentata</i> ssp. <i>tridentata</i> Nutt.	Shrub	2.84	1.15		ARTRT	basin big sagebrush	perennia	native														45.36								
<i>Rhus trilobata</i> Nutt.	Shrub	2.49	1.01		RWTR	skunkbrush sumac	perennia	native					0.04	0.06		39.67														
<i>Artemisia nova</i> A. Nels.	Shrub	1.97	0.80		ARN04	black sagebrush	perennia	native				19.49																	11.76	0.21
<i>Artemisia tridentata</i> ssp. <i>wyomingensis</i> B.	Shrub	1.75	0.71		ARTRW8	Wyoming big sagebrush	perennia	native	1.77			6.50	0.07		2.11			0.28			0.09							14.41	2.82	
<i>Chrysothamnus viscidiflorus</i> (Hook.) Nutt.	Shrub	1.09	0.44		CHV18	yellow rabbitbrush	perennia	native			0.52		0.05	6.61	0.15	0.04	0.64												9.45	
<i>Paiclistra myrsinites</i> (Pursh) Raf.	Shrub	0.34	0.14		PAMY	Oregon boxleaf	perennia	native								5.40													3.59	
<i>Rhus montigena</i> McClintock	Shrub	0.25	0.10		RMC02	gooseberry currant	perennia	native																						
<i>Artemisia ludoviciana</i> Nutt.	Shrub	0.20	0.08		ARLU	white sagebrush	perennia	native				3.12																		
<i>Bricellia longifolia</i> S. Wats.	Shrub	0.20	0.08		BRLO	longleaf brickellbrush	perennia	native																						3.12
<i>Cercocarpus ledifolius</i> Nutt.	Shrub	0.16	0.07		CELE3	cal-leaf mountain mahogany	perennia	native									2.60													
<i>Rosa woodsii</i> Lindl.	Shrub	0.16	0.06		ROWD	Wood's rose	perennia	native					0.02										2.47							
<i>Ribes</i> L.	Shrub	0.09	0.04		RIBES	currant	perennia	native				1.40																		
<i>Artemisia dracunculoides</i> L.	Shrub	0.04	0.02		ARDR4	taragon	perennia	native				0.70																		
<i>Pinus virginiana</i> L.	Shrub	0.03	0.01		PRV1	doakcherry	perennia	native				0.02																		0.42
<i>Purshia tridentata</i> (Pursh) DC.	Shrub	0.02	0.01	<0	PURTR	aristolepis bitterbrush	perennia	native							0.29						0.06									
<i>Symphoricarpos obtusatus</i> Moench	Shrub	0.01	0.00		SYOR	corallberry	perennia	native			0.02					0.10														
<i>Cornus sericea</i> L.	Shrub	0.01	0.00		COSE16	redosier dogwood	perennia	native					0.09																	
<i>Oxton ciliatoglandulifer</i> Ortega	Shrub	0.00	0.00		OCRC1	Mexican croton	perennia	native																					0.06	
Total for Shrubs		27	40%						23	4	3	29	86	36	5	93	4	165	332	4	170	31	12	72						
<i>Heliotropia villosa</i> (Pursh) Shimmers	SubShrub	1.52	0.62	<0	HEV14	hairy false goldenaster	perennia	native				0.86	5.20					14.52										3.71		
<i>Gutierrezia serotina</i> (Pursh) Britt. & R.	SubShrub	1.11	0.45		GUSA2	boom snakeweed	perennia	native				0.44					0.04						14.21				0.10	3.00		
<i>Machaeranthera glanduloides</i> (Nutt.) Shi	SubShrub	0.71	0.29		MAGR2	rayless tansyaster	perennia	native	1.64	0.76			7.80		0.80													0.43		
<i>Eriogonum umbellatum</i> Torr.	SubShrub	0.28	0.12		ERUM	sulphur-flower buckwheat	perennia	native				1.65	0.70				2.20													
<i>Ephedra viridis</i> Coville	SubShrub	0.28	0.11		EPVI	momom tea	perennia	native	3.44		0.20								0.29	0.29										
<i>Echinocereus triglochidatus</i> Engelm.	SubShrub	0.25	0.10		ECTR	kingcup cactus	perennia	native										3.49										0.58		
<i>Opuntia fragilis</i> (Nutt.) Haw.	SubShrub	0.18	0.07		OPFR	brittle pricklypear	perennia	native			2.34	0.05	0.45				0.04													
<i>Eriogonum corymbosum</i> Small	SubShrub	0.18	0.07		ERCO13	grand buckwheat	perennia	native				2.80																		
<i>Senecio nemorensis</i> Gray	SubShrub	0.17	0.07		SENE4	New Mexico groundsel	perennia	native													0.25							2.40		
<i>Chrysothamnus nauseosus</i> ssp. <i>nauseosus</i> (SubShrub	0.14	0.06		CHNA4	rubber rabbitbrush	perennia	native																				2.19		
<i>Symphoricarpos albus</i> (L.) Blake	SubShrub	0.12	0.05		SYAL	common snowberry	perennia	native	1.12																			0.86		
<i>Comandra umbellata</i> (L.) Nutt.	SubShrub	0.10	0.04		COLM	bastard toxicifax	perennia	native											1.60	0.80								0.80		
<i>Galium boreale</i> L.	SubShrub	0.10	0.04		GAB02	northern bedstraw	perennia	native																						
<i>Pedicularis canadensis</i> L.	SubShrub	0.09	0.03		PECA	Canadian housewort	perennia	native			1.36																			
<i>Eriogonum Michx.</i>	SubShrub	0.08	0.03		ERIOG	buckwheat	perennia	native			1.18			0.14																
<i>Phlox longifolia</i> Nutt.	SubShrub	0.08	0.03		PHLO2	longleaf phlox	perennia	native	1.21																					
<i>Penstemon caespitosus</i> Nutt. ex Gray	SubShrub	0.06	0.02	<0	PECA4	mat penstemon	perennia	native																				0.90		
<i>Opuntia polyacantha</i> Haw.	SubShrub	0.06	0.02	<0	OPPO	plains pricklypear	perennia	native										0.47										0.42		
<i>Tetradymia canescens</i> DC.	SubShrub	0.05	0.02		TECA2	spineless horsebrush	perennia	native				0.77																	0.01	
<i>Ephedra</i> L.	SubShrub	0.05	0.02		EPHE1	pinifir	perennia	native							0.77															
<i>Stemotus aculeus</i> (Nutt.) Nutt.	SubShrub	0.04	0.02		STAC	stemless mock goldenweed	perennia	native				0.70																		
<i>Escobaria vivipara</i> (Nutt.) Brubbaum	SubShrub	0.02	0.01		ESV12	spinytar	perennia	native				0.33																		
<i>Hymenocappus filifolius</i> Hook.	SubShrub	0.02	0.01		HYFI	fiveleaf hymenocappus	perennia	native																				0.27		
<i>Yucca glauca</i> Nutt.	SubShrub	0.01	0.00		YUGL	scapweed yucca	perennia	native										0.13												
Total for SubShrubs		2	7% shrubs						7	2	4	3	18	0	2	3	19	2	1	0	14	3	5	7						
<i>Pinus edulis</i> Engelm.	Tree	94.58	38.42	<10	PIED	twoneedle piñon	perennia	native	17.43	48.38	54.38	10.00	573.73	2.19	8.97	40.99	99.59	1.38	0.02	288.36		0.08	33.19	384.55						
<i>Juniperus osteosperma</i> (Tor.) Little	Tree	35.93	14.59	<10	JUOS	Utah juniper	perennia	native	18.18	17.39	32.39	9.60	34.03	9.28	187.14	23.99	50.98	31.19	0.38	62.91		0.49	13.20	83.69						
Total for Trees		53	7% shrubs						36	66	87	20	608	11	196	65	111	33	0	331		1	46	478						
<i>Vicia americana</i> Muhl. ex Willd.	Vine Forb/ herb.	0.66	0.27		VIAM	American vetch	perennia	native														10.50								
<i>Lathyrus latifolius</i> Kellogg	Vine Forb/ herb.	0.11	0.05		LALA3	Navaho pea	perennia	native														1.80								
<i>Clematis ligusticifolia</i> Nutt.	Vine Forb/ herb.	0.08	0.03		CLL2	western white clematis	perennia	native																						