CENTERRA APPROVED PLANT LIST

The following plant list has been established and approved by the Centerra Design Review Committee (DRC) for the Centerra Master Planned Community. Any substitutions or variances from the following list must be submitted to the DRC for review and approval.

LEGEND

Preferred Species	**Do not over water**	**Abbreviations for Recommended District/Area:** UC = Urban Core R = Residential I = Industrial P = Parks A = All districts/areas (excluding natural areas)
Allowed Species	**Protect from sun and wind**	
Native*	**Moisture Rating (Low Moisture – High Moisture)**	
Pollinator**	**Sun Exposure Rating (No Sun – Full Sun)**	

* A native plant is defined as those native to the Rocky Mountain Inter-Mountain Region.

**A pollinator is defined as those that provide food and/or reproductive resources for pollinating animals, such as honeybees, native bees, butterflies, moths, beetles, flies, and hummingbirds. **

Scientific Name	Common Name	Flower Color	Blooming Season	Height	Spread	Sun/Shade Tolerance	Moisture Needs	Notes
SHRUBS								
Abronia fragrans	Snowball Sand Verbena	White	June-July	4-24"	4-24"			R, P
Agave americana	Century Plant	Greenish Yellow	Late Spring, Early Summer	6’-12’	6-10’			UC May not be reliably hardy, requires sandy/gritty soil
Alnus incana ssp. tenuifolia	Thinleaf Alder	Purple	Early Spring	15-40’	15-40’			P Host plant, Spreads - more appropriate for parks, More tree-like; catkins through winter
Amelanchier alnifolia	Saskatoon Serviceberry	White	Mid Spring	4’-15’	6’-8’			A
Amelanchier canadensis	Shadblow Serviceberry	White	Mid Spring	25’-30’	15’-20’			A High habitat value for pollinators and birds; Protect from wind
Amelanchier utahensis	Utah Serviceberry	White	Mid Spring, Late Spring	12'	12'			A High habitat value for pollinators and birds
Amorpha canescens	Lead Plant	Blue, Purple	Late Spring, Early Summer	3’-6’	6’			A Possible replacement for Russian Sage; host plant
Arctostaphylos uva-ursi	Kinnikinnick	Insignificant	Mid Spring, Late Spring, Early Summer	6”-12”	15’			R, UC Prefers the winter shade of pines; Requires excellent drainage
Aronia arbutifolia	Red Chokeberry	White	Early Spring, Mid Spring, Late Spring, Early Summer, Mid-Summer	8'	6'			A
Aronia melanocarpa	Black Chokeberry	White	Early Spring, Mid Spring, Late Spring, Early Summer, Mid-Summer	8'	6'			A
Artemisia cana	Silver Sagebrush	Insignificant	Summer, Early Fall	1’-3’	3’			A Silver foliage; Drought tolerant; Water sparingly the 1st year, and then remove irrigation.
Artemisia filifolia	Sand Sagebrush	Insignificant	Late Summer, Early Fall, Mid Fall, Late Fall, Early Winter	5'	3'			A Silver foliage; Water sparingly the 1st year, and then remove irrigation.
Artemisia tridentata	Big Sagebrush	Insignificant	Early Summer	6’-12’	6’-8’			A Silver foliage; Water sparingly the 1st year, and then remove irrigation.

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SHRUBS (Continued)								
Atriplex canescens	Four-winged Saltbush	Insignificant	Early Spring-Late Fall	6'-12'	3-6'			A Interesting seed pods; Water sparingly the 1st year, and then remove irrigation.
Buddleja davidii	Butterfly Bush	Insignificant	Early Summer – Early Fall	6'-12'	4'-15'			A; Must be deadheaded to maintain looks; cut back in winter
Caryopteris x clandonensis 'blue mist'	Blue Mist Spirea	Powder Blue	Late Summer - Mid Fall	2'-3'	2'-3'			A; Honeybee forage; will re-seed in irrigated areas; Often cut back in spring
Cercocarpus intricatus	Littleleaf Mountain Mahogany	Insignificant	Early Spring, Mid Spring, Late Winter	6'	5'			A Bark and seeds provide nice texture; semi-evergreen provides shelter; open habit
Cercocarpus montanus	Mountain Mahogany	Yellow Green	Early Summer	8'	6'			A Open habit; Appealing, curly seeds
Cercocarpus ledifolius	Curl-leaf Mountain Mahogany	Insignificant	Early-Mid Spring	10'-25'	10'-20'			A Open habit; Appealing seeds
Chaenomeles japonica	Japanese Quince	Red	Mid Spring	3'	6'			A Flowers appear before foliage.
Chamaebatiaria millefolium	Fernbush	White	Mid-Summer, Late Summer	5'	6'			UC, I, P Especially attractive to bumblebees; Suitable for conventional landscapes; Semi-evergreen
Chrysothamnus nauseosus	Rubber Rabbitbrush	Yellow	Late Summer	4-6'	4-6'			A Syn. *Ericameria*; extremely high habitat value
Chrysothamnus nauseosus ssp. nauseosus	Dwarf Blue Rabbitbrush	Yellow	Fall	4'	4'			A Syn. *Ericameria*; extremely high habitat value
Chrysothamnus viscidiflorus	Yellow Rabbitbrush	Yellow	Late Summer, Early Fall, Mid Fall	5'	5'			A Syn. *Ericameria*; extremely high habitat value
Cornus alba	Tatarian Dogwood	Yellow Green	Late Spring, Early Summer	8'	6'			A
Cornus alternifolia	Alternate leaf Dogwood	Cream	Late Spring, Early Summer	25'	20'			A
Cornus racemosa	Grey Dogwood	White	Late Spring, Early Summer	15'	15'			A
Cornus sericea	Redosier / Red Twig Dogwood	White	Spring to Summer	6-8'	6-8'			A Red stems provide winter interest
Corylopsis glabrescens	Winterhazel	Light Yellow	Early Spring	15'	8'			UC, R
Corylus americana	American Hazelnut	Tan	Early Spring, Mid Spring	15'	13'			UC, R
Cotoneaster adpressus	Creeping Cotoneaster	White	Late Spring, Early Summer	2'	6'			A; Red berries

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SHRUBS (Continued)								
Cotoneaster apiculatus	Cranberry Cotoneaster	Light Pink	Late Spring, Early Summer	2’	6'			A; Stiff arching branches, red berries
Cotoneaster dammeri	Bearberry Cotoneaster	White	Late Spring	2'	6'			A; Red berries
Cotoneaster hessei	Cotoneaster	Light Red	Late Spring	18"	5'			A; Red berries
Cotoneaster multiflorus	Many-flowered Cotoneaster	White	Early Summer, Mid-Summer	12"	4'			A; Red berries
Crataegus erythropoda	Shiny-leaved Hawthorn	White	Spring	10-20'	8-15'			A
Crataegus phaenopyrum	Washington Hawthorn	White	Early Summer	20’-25’	20’			A
Ephedra americana	Jointfir	Light Yellow	Late Spring, Early Summer	4'	3'			A; Semi-evergreen
Ephedra viridis	Mormon Tea	Insignificant	Early Spring	4’-6’	4’-6’			A
Euonymus alatus	Burning Bush	Insignificant	Late Spring	15’-20’	8’-12’			U; Bright red foliage
Euonymus kiautschovicus ‘Manhattan’	Manhattan Euonymus	Insignificant	Mid-Summer	4’-5’	5’-6’			U Evergreen; Spreading habit broadleaf for full shade
Fallugia paradoxa	Apache Plume	White	Late Spring – Early Winter	3’-5’	3’-5’			A Appealing seed heads; Flowers attract honeybees and native bees
Forestiera neomexicana	New Mexico Privet	Insignificant	Mid Spring – Late Spring	8’-12’	6’-8’			A
Juniperus horizontalis	Creeping Juniper	N/A	N/A	18"	8'			A; Evergreen
Juniperous x media ‘pfitzeriana compacta’	Compact Pfitzer Juniper	N/A	N/A	18”	5’			A; Evergreen; Blue green foliage, irregularly round habit
Juniperus x media ‘sea green’	Seagreen Juniper	N/A	N/A	5’-6’	6’-8’			A; Evergreen
Juniperus sabina	Juniper	N/A	N/A	4’-6’	5’-10’			A; Evergreen
Juniperus squamata	Singleseed Juniper	N/A	N/A	16'	3'			R Evergreen; Use in protected areas
Ligustrum vulgare	European Privet	White	Early Summer, Mid-Summer	3'	4'			UC; Use for hedge applications only; Low habitat value
Malus sargentii	Sargent Crabapple	White	Mid Spring, Late Spring	8'	15'			A Benefits birds
Mahonia aquifolium	Compact Oregon Grape Holly	Yellow	Spring	6’	6’			A Early blooms for pollinators, berries for birds; Foliage interest
Mahonia repens	Creeping Grape Holly	Yellow	Late Spring, Early Summer	1’-2’	3’			A Early blooms for pollinators, berries for birds; Foliage interest
Perovskia atriplicifolia	Russian Sage	Lavender	Late Summer, Fall	3’-5’	2’-4’			A Consider subbing with a native species (i.e. leadplant); honeybee forage only

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SHRUBS (Continued)								
Philadelphus coronarius	Mock Orange	White	Late Spring, Early Summer	10'	10'			P; Fragrant
Philadelphus lewisii	Mock Orange	White	Late Spring, Early Summer	7'	6'			A; Fragrant Preferred species of mock orange
Philadelphus microphyllus	Little-leaf Mockorange	White	Late Spring, Early Summer	4'-6'	4'-6'			A; Fragrant
Physocarpus monogynus	Mountain Ninebark	White	Spring	4'	4'			A
Physocarpus opulifolius	Ninebark	Light Pink, White	Late Spring, Early Summer	6'	4'			A
Physocarpus opulifolius 'nanus'	Dwarf Ninebark	White	Late Spring, Early Summer	1'-2'	2'-3'			A
Picea pungens 'Thume'	Colorado Blue Spruce	N/A	N/A	8'	4'			A; Evergreen; Any cultivars are appropriate
Pinus sylvestris 'Repens'	Creeping Scot's Pine	N/A	N/A	50"	30"			A; Evergreen; Any cultivars are appropriate
Potentilla fruticosa	Potentilla	Yellow	Summer	2'-3'	2'-3'			A; Any cultivators are appropriate
Prunus besseyi	Western Sand Cherry	White	Spring	3'	6'			A Attractive and reliable for many sites; great native bee plant
Prunus maackii	Amur Chokecherry	White	Late Spring	20'-30'	18'-25'			P, I Golden, exfoliating bark
Prunus virginiana melanocarpa	Western Chokecherry	White	Spring	20'	12'			P Attractive and reliable for many sites; high habitat value for birds and wide range of pollinators; Can spread like crazy
Purshia mexicana	Mexican Cliffrose	Light Yellow	Mid Spring, Late Spring, Early Summer	6'	4'			P, R
Purshia tridentata	Antelope Bitterbrush	Yellow	Late Spring, Early Summer	8"	8"			P, R Scrubland shrub; Plant in well drained area
Pyracantha angustifolia 'gnome'	Gnome Firethorn	White	Late Spring	4'-6'	4'-8'			I, P; Large, persistent orange berries; Wicked thorns
Quercus gambelii	Gambel Oak	Insignificant		8'-20'	6'-12'			P Host plant; Plant on gravel berm; Must have excellent drainage
Rhamnus smithii	Smith's Buckthorn	Yellow Green	Late Spring, Early Summer	10'	10'			P, R, I
Rhus aromatica 'gro-low'	Grow Low Sumac	Insignificant	Late Spring	1'-2'	6'-8'			A Brilliant fall foliage
Rhus glabra	Smooth Sumac	Insignificant	Early Summer	9'-15'	9'-15'			P Brilliant fall foliage

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SHRUBS (Continued)								
Rhus trilobata	Three-leaf Sumac	Insignificant	Mid Spring, Late Spring	6'	6'	☀☀☀	⊘→💧	A High habitat value, especially for native bees; Use in masses; Brilliant fall foliage
Ribes alpinum	Alpine Currant	Yellow Green	Mid Spring	6'	6'	☀☀→☀☀☀	💧	A
Ribes americanum	American Black Currant	Yellow	Spring	2-4'	2-4'	☀☀→☀☀☀	💧💧	P, R
Ribes aureum	Golden Currant	Yellow Orange	Mid Spring, Late Spring	3'-7'	2'-6'	☀☀→☀☀☀	💧💧	P High habitat value, esp. for migrating hummingbirds and bumblebee queens; Will sucker; Red autumn foliage is amazing
Ribes cereum	Wax Currant	Light Pink	Mid Spring	4'	4'	☀☀☀	💧	A
Ribes odoratum 'Crandall'	Clove Currant	Yellow	Mid Spring	5'	10'	☀☀→☀☀☀	💧	P, R Great fall color; Good for birds
Rosa glauca	Redleaf Rose	Pink	Late Spring, Early Summer	8'	5'	☀☀☀	💧	P, R. UC Red-purple foliage provides nice contrast
Rosa	All shrub roses, including: Hybrid Rugosa Rose Floribunda Rose Explorer Series	Light Pink	Late Spring, Early Summer, Mid-Summer, Late Summer, Early Fall, Mid Fall	7'	7'	☀☀☀	💧💧	P, R; Low habitat value for pollinators; Provides habitat for birds
Rosa 'Nearly Wild'	Floribunda Rose	Pink	Late Spring, Early Summer, Mid-Summer, Late Summer, Early Fall, Mid Fall	4'	4'	☀☀☀	💧💧	P, R; Low habitat value for pollinators; Provides habitat for birds
Salix irrorata	Bluestem Willow	Insignificant	Spring	12'	8'	☀☀→☀☀☀	💧💧	P, R, Streetscape
Salix purpurea 'nana'	Dwarf Artic Willow	Insignificant	Spring	3'-5'	3'-5'	☀☀☀	💧💧→💧💧💧	P, R, Streetscape
Sambucus ebulus	Dwarf Elderberry	White	Mid-Summer, Late Summer	4'	4'	☀☀☀	💧💧	P May be rangy in small yards; Bird plant
Shepherdia argentea	Buffaloberry	Yellow	Early Spring	8'-12'	8'-12'	☀☀→☀☀☀	⊘→💧	P, I Edible fruit; Silver foliage; Provides habitat for birds
Sibiraea laevigata	Siberian Spirea	White	Early Summer	5'	8'	☀☀→☀☀☀	💧→💧💧	P, R, Streetscape
Spiraea fritschiana	Korean Spirea	White	Early Summer, Mid-Summer	3'	4'	☀☀☀	💧💧	UC, P, Streetscape
Spiraea japonica	Japanese Spiraea	Pink	Late Spring, Early Summer, Mid-Summer	3'	3'	☀☀→☀☀☀	💧💧	UC, P, Streetscape

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SHRUBS (Continued)								
Spiraea myrtilloides	Myrtle Spirea	White	Early Summer, Mid-Summer	8'	4'			UC, P, Streetscape
Spiraea prunifolia	Bridal Wreath Spirea	White	Mid Spring, Late Spring	8'	8'			UC, P, Streetscape; Invasive in eastern U.S.
Spiraea trilobata	Three-lobed Spirea	White	Late Spring, Early Summer	4'	4'			UC, P, Streetscape
Symphoricarpos occidentalis	Snowberry	White	Mid-Summer	3'-6'	3'-6'			P Great plant for birds
Symphoricarpos orbiculatus	Red Coralberry	White, Green	Mid Spring, Early Summer	3'-6'	3'-6'			A
Syringa meyeri 'palibin'	Dwarf Korean lilac	Pale pink	Mid Spring, Late Spring	4-5'	5-7'			A; Fragrant
Syringa vulgaris	Common Lilac	Purple - White	Late Spring	20'	12'			P, I, R Susceptible to powdery mildew; Fragrant
Viburnum carlesii	Koreanspice Viburnum	White	Early Spring, Mid Spring	5'	6'			A; Fragrant
Viburnum dentatum	Southern Arrowwood	White	Late Spring, Early Summer	8'	8'			P, UC; Uniform branching habit
Viburnum lantana	Wayfaringtree	White	Late Spring	10'	8'			P, UC, I
Viburnum lentago	Nannyberry	White	Late Spring	15'	8'			P, UC, I; Upright arching branches
Viburnum trilobum 'Compactum'	American Cranberrybush	White	Mid Spring	5'	5'			P, UC, R; Fruit bearing
Viburnum x burkwoodii	Burkwood Viburnum	White	Mid Spring	8'	8'			P, UC, R
Yucca glauca	Soap Weed	White	Summer	2-3'	2-3'			A
FORBS								
Achillea lanulosa	Woolly Yarrow	White	Summer	18"	18"			A; Forage for wide range of small pollinators
Achillea millefolium	Common Yarrow	White	Early Summer, Mid-Summer, Late Summer, Early Fall	2'	3'			A; Can be aggressive; Any cultivar is okay
Adenolinum (linum) lewisii	Blue Flax	Blue	Summer	12"	12"			A Short-lived, but re-seeds; gives a "wild" or "natural" effect
Agastache cana	Double Bubblemint	Pink	Summer-Fall	3'	2'			A; High habitat value for long-tongued pollinators
Agastache foeniculum	Anise Hyssop	Blue	Summer-Fall	3'	2'			A; Especially attractive to bumble bees
Agastache rupestris	Sunset Hyssop	Orange	Late Summer, Fall	1'-2'	1'-1.5'			A; High habitat value for long-tongued pollinators
Aguilegia caerulea	Rocky Mountain Columbine	Blue, White	Mid to Late Spring	1'-2'	1'-2'			A; Colorado State flower
Ajuga reptans 'Mahogany'	Bugleweed	Blue	Late Spring, Early Summer	6"	6"			R; Ground cover; Spreads aggressively

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FORBS (Continued)								
Alchemilla mollis	Lady's Mantle	Yellow Green	Early Summer	2'	2'	☀	💧💧	A; Tidy and attractive in the right setting
Amsonia jonesii	Jones' Bluestar	Light blue	Mid Spring, Late Spring, Early Summer	2'	2'	☀☀☀	💧	A
Anthemis marschalliana	Filigree Daisy	Yellow	Late Spring, Early Summer, Mid-Summer	4"	12"	☀☀☀	💧💧	R; Tidy border plant; Prefer Engelmann Daisy
Aquilegia chrysantha	Golden Columbine	Yellow	Late spring	3'	2'	☀☀☀☀	💧	A; Long blooming
Armeria maritima	Sea Thrift	Pink	Mid Spring, Late Spring, Early Summer	12"	12"	☀☀☀	💧💧	P, R; Tidy border plant
Artemisia frigida	Fringed Sagebrush	Yellow	Summer	2'	2'	☀☀☀	🚫 → 💧	A; Silver foliage
Artemisia ludoviciana	Prairie Sage	Yellow	Summer	40"	36"	☀☀☀	🚫 → 💧	A Silver foliage; Can spread to become groundcover
Artemisia schmidtiana	Wormwood	White	Early Summer	18"	24"	☀☀☀	💧	A
Artemisia versicolor 'seafoam'	Seafoam Artemisia	Yellow	Mid-Summer	6"-12"	18"-24"	☀☀☀	💧	A; Low water; Grey foliage
Asclepias incamata	Swamp Milkweed	White/Pink	Summer	36-72"	24"	☀☀☀	💧💧	A; Superior milkweed choice for landscaping; Monarch host; High habitat value
Asclepias tuberosa	Butterfly Weed	Orange	Summer	12"	12"	☀☀☀	💧 → 💧💧	R, P, Streetscape; Monarch host; High habitat value
Aster alpinus 'Goliath'	Goliath Alpine Aster	Light Blue	Mid Spring, Late Spring, Early Summer	12"	18"	☀☀☀☀	💧	A; High habitat value for pollinators and birds
Aster ascendens	Western Aster	Light Purple	Late Spring, Early Summer, Mid-Summer	24"	24"	☀☀☀	💧	A Syn. Symphyotrichum ascendens; High habitat value for pollinators and birds; Good for buffers
Aster ericoides	Many-flowered Aster	White	Late Summer	18-24"	24"	☀☀☀	💧💧	A; High habitat value for pollinators and birds
Aster falcatus	Rough White Aster	White	Late Summer	24-48"	24"	☀☀☀	💧💧	A; High habitat value for pollinators and birds
Aster hesperius	Western Aster; Violet Aster	Pink	Late Summer	36-60"	20"	☀☀☀	💧💧💧	A; High habitat value for pollinators and birds
Aster x frikartii 'monch'	Monch Aster	Lavender	Late Summer, Fall	2'-3'	1'-1.5'	☀☀☀☀	💧💧	A; High habitat value for pollinators and birds
Aster porteri	Porter's Aster	White	Late Summer	18-24"	24"	☀☀☀	💧	A; High habitat value for pollinators and birds
Aubrieta deltoidea	Purple Rockcress	Purple	Mid Spring, Late Spring, Early Summer	6"	12"	☀☀☀	💧	R, P
Baptisia australis	Blue Wild Indigo	Blue	Late Spring, Early Summer	4'	3'	☀☀☀☀	💧	A Attractive to bumblebees; Long lived; Shrub like perennial

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FORBS (Continued)								
Bergenia cordifolia	Heartleaf Bergenia	Pink	Late Spring	1'-1.5'	1'-1.5'	☀→☀	💧💧	A; Large evergreen leaves
Berlandiera lyrata	Chocolate Flower	Yellow	Late Spring, Early Summer, Mid-Summer, Late Summer, Early Fall, Mid Fall	24"	18"	☀☀☀	💧	A; Fragrant
Callirhoe involucrata	Poppy Mallow	Red violet	Summer	6"	18"	☀☀☀	💧	A Easy care; Host for fritillary butterflies; Spreading plant
Calylophus serrulata	Calyophus	Yellow	5-9	8-12"	15"	☀→☀	💧	A
Campanula cochlearifolia	Earleaf Bellflower	Violet	Late Spring, Early Summer, Mid-Summer	6"	12"	☀→☀	💧💧	A
Campanula persicifolia	Willow Bell	Blue	Early Summer, Mid-Summer	3'	18"	☀☀☀	💧💧	A
Campanula rotundifolia	Bluebell Bellflower	Light Blue	Early Summer, Mid-Summer, Late Summer, Early Fall	10"	8"	☀☀	💧	A
Centranthus ruber	Red Valerian	Pink	Late Spring	3'	2'	☀☀☀	💧	P, Streetscape Indestructible, benefits from timely deadheading
Cerastium tomentosum	Snow-in-Summer	White	Early Summer	.5'-1'	.75'-1'	☀☀☀	⊘→💧	Aggressive; Silver foliage
Ceratostigma plumbaginoides	Plumbago	Blue	Mid-Summer, Late Summer, Early Fall	12"	24"	☀→☀☀	💧	P, R, Streetscape; Late blooming perennial
Clematis	Clematis	White - Purple	Early Summer, Late Summer, Mid-Summer	6'	Vine	☀☀☀	💧💧	R; Will need support
Convallaria majalis	Lily of the Valley	White	Early Spring	12"	15"	☀→☀	💧💧	R; Understory plant; Fragrant
Coreopsis verticillata	Coreopsis	Yellow	Summer	1.5'-2'	1.5'-2'	☀☀☀	💧→💧💧	A
Crambe maritima	Curly Leaf Sea Kale	White	Late Spring, Early Summer	6'	4'	☀☀☀	💧💧	P; Use as contrast foliage; Huge plant
Dalea purpurea	Purple Prairie Clover	Rose, Purple	Summer	1'-3'	1'-1.5'	☀☀☀	💧💧	A
Delosperma cooperi	Hardy Ice Plant	Red purple	Summer, Early Fall	.25'-.5'	1'-2'	☀☀☀	⊘→💧	A; Semi-evergreen
Dianthus 'Bath's Pink'	Cheddar Pink	Pink	Late Spring	10"	10"	☀☀☀	💧💧	P, R, UC; Semi-evergreen
Digitalis lanata	Grecian Foxglove	Cream	Early Summer, Mid-Summer	24"	18"	☀→☀	💧💧	A
Digitalis obscura	Sunset Foxglove	Yellow	Late Spring Early Summer	24"	20"	☀→☀	💧💧	A; Preferred foxglove selection – Plant Select
Echinacea purpurea	Eastern Purple Coneflower	Light Purple	Early Summer, Mid-Summer, Late Summer	3'	2'	☀☀☀	💧💧	P, R High habitat value: Low maintenance; A favorite of rabbits

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Native*	**Moisture Rating (Low Moisture – High Moisture)**	
Pollinator**	**Sun Exposure Rating (No Sun – Full Sun)**	

Scientific Name	Common Name	Flower Color	Blooming Season	Height	Spread	Sun/Shade Tolerance	Moisture Needs	Notes
FORBS (Continued)								
Echinacea tennesseensis	Small Tennessee Purple Coneflower	Purple	Early Summer, Mid-Summer, Late Summer	30"	24"	☀☀☀	💧	A; High habitat value; Low maintenance; A favorite of rabbits
Engelmannia peristenia	Englemann Daisy	Yellow	Late Spring Early Summer	24"	30"	☀☀☀	💧	A Plant Select; Preferred over Anthemis
Erigeron speciosus	Aspen Daisy	Lavender	Summer	24"	24"	☀☀☀	💧	A; May spread aggressively
Eriogonum umbellatum	Sulfur Flower	Yellow	7-8	6-18"	24"	☀☀☀	💧	P, R, UC; Semi-evergreen; Persistent seed heads
Euonymus fortunei 'Coloratus'	Purpleleaf Wintercreeper	White	Mid Spring	.5'-.75'	1'-3'	☀☀→☀☀☀	💧💧	A; Evergreen
Gaillardia aristata	Blanket Flower	Red/ Yellow	Summer, Fall	24"	24"	☀☀☀	💧	A Long blooming period, especially when deadheaded; Tolerates heat
Galium odoratum	Sweet Woodruff	White	Mid to Late Spring	.5'-1'	.75'-1.5'	☀☀→☀☀	💧→💧💧💧	A; Aggressive spreader
Gaura lindheimeri	Beeblossom	White/Pink	Early Summer, Mid-Summer, Late Summer, Early Fall, Mid Fall	3'	2'	☀☀→☀☀☀	💧	P, R, UC; Excellent long blooming perennial
Geranium cultivars		Pale Pink - Violet	Summer	2'	2'	☀→☀☀☀	💧💧	P, R, UC
Glandularia wrightii		Pink	Early Summer	3"	6"	☀☀☀	💧	A; Likes sandy soil
Gutierrezia sarothrae	Snakeweed	Yellow	Late Summer, Early Fall, Mid Fall	3'	3'	☀☀	⊘→💧	A; Shrub like
Helianthemum grandiflorum ssp. grandiflorum	Rockrose	Yellow	Late Spring, Early Summer	12"	24"	☀☀☀	💧	P, R; Attractive all season long
Helianthus annuus	Annual Sunflower	Yellow	Summer	10'	3'	☀☀☀	💧	A; High habitat value; even if not included in design, there should be allowance to keep them in the landscape; included in maintenance guidelines; will re-seed
Helianthus maximiliani	Maximilian sunflower	Yellow	Early Fall	3'-10'	2'-4'	☀☀☀	💧→💧💧	A
Hemerocallis ssp.	Daylily	Varies	Summer	1'-3'	1'-3'	☀☀→☀☀☀	💧	I, UC, Streetscapes; Low habitat value – restrained use, but great for tough locations
Hesperaloe parviflora	Red Yucca	Pink	Summer	3'	3'	☀☀☀	⊘→💧	A High habitat value for pollinators, esp. hummingbirds; Habit provides interest
Heuchera pulchella	Sandia Mountain Coral Bells	Pink	Late Spring, Early Summer	6"	12"	☀☀→☀☀	💧	P, R, UC; Best used in sheltered contexts, understory
Heuchera sanguinea	Coral Bells	Pink, Red	Late Spring, Early Summer	1'-1.5'	.75'-1'	☀☀→☀☀☀	💧💧	P, R, UC; Best used in sheltered contexts, understory
Hosta sagae	Hosta	Light Purple	Mid-Summer, Late Summer	3'	3'	☀	💧💧	A; Workhorse in shady sites; Low habitat value

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FORBS (Continued)								
Hyssopus officinalis	Common Hyssop	Violet	Early Summer, Mid-Summer, Late Summer, Early Fall	10"	10"			A; Agastache spp. are preferred
Iris x germanica	Bearded Iris	Blue-Purple	Late Spring	2'-3'	1'-2'			A
Iris missouriensis	Blue flag Iris	Blue-Purple	Spring	24"				A; Early bloom - nectar and pollen for bees; aquatic shelter
Kniphofia caulescens	Torch Lily	Coral Red, Yellow	Mid-Summer	2'-4'	1'-2'			A
Kniphofia uvaria	Red Hot Poker	Red	Late Spring, Early Summer	24"	24"			P, R, UC; Favorite of hummingbirds, but can be finicky
Lavandula angustifolia	English Lavender	Purple	Late Spring, Early Summer, Mid-Summer	18"	18"			R, UC, Streetscape Fragrant; Superb honeybee forage; May rot out in heavy soils over winter
Leucojum aestivum	Summer Snowflake	White	Early Spring, Mid Spring, Late Spring, Late Winter	2'	1'			R, P; Bulbs in spring
Liatris ligulistylus		Magenta	Mid-Summer, Late Summer	2'	1'			A; Superb plant for butterfly habitats
Liatris punctata	Dotted Gayfeather	Pink, Purple	Late Summer, Fall	1-3'	1-3'			A; Superb plant for butterfly habitats; Also good for wildflower seeding in natural areas
Liatris pycnostachya	Prairie Blazing Star	Light Purple	Mid-Summer, Late Summer	5'	18"			A; Superb plant for butterfly habitats
Liatris spicata	Prairie Gayfeather	Magenta	Mid-Summer, Late Summer	24"	24"			A; Plant for butterfly habitats; Least preferred Liatris
Linum perenne	Perennial Flax	Light Blue	Early Summer	24"	24"			A; Also see Adenolinum (linum) lewisii
Lonicera spp.	Vining Honeysuckles		Early Summer, Mid-Summer, Late Summer	Vine	Vine			A
Lupinus argenteus	Silvery Lupine	Purple	Summer	2'	2'			A Availability will be an issue, great once established; Host for blues and great forage for larger bees
Lupinus neomexicanus	New Mexico Lupine	Light Blue	Late Spring, Early Summer	24"	24"			A; Availability will be an issue
Lychnis chalcedonica	Maltesecross	Red	Late Spring, Early Summer, Mid-Summer	4'	18"			R; Silver Foliage
Lysimachia nummularia	Creeping Jenny	Yellow	Late Spring, Early Summer	4"	18"			R; May spread aggressively
Machaeranthera bigelovii	Sante Fe Aster	Blue	Fall	1'-3'	1'-2'			A; Will self-seed, short lived
Mirabilis multiflora	Four O'Clock	Red-violet	Summer	3'	4'			A Attractive mounding habit; Attractive to hawk moths and hummingbirds; Requires excellent drainage

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FORBS (Continued)								
Monarda fistulosa	Wild Bergamot	Pink	Summer	36"	24"	☀☀☀	💧	A High habitat value when in bloom for bumblebees, hummingbirds and butterflies; Very hardy
Oenethera caespitosa	White Stemless Evening Primrose	White	Early Summer, Mid-Summer, Late Summer	12"	18"	☀☀☀	🚫 💧	A
Oenothera macrocarpa	Evening Primrose	Yellow	Summer	12"	24"	☀☀☀	🚫 💧	P, R, Streetscapes; Often called O. missouriensis
Opuntia basilarus	Beavertail Cactus	Red, Pink, Purple	Late Winter, Spring, Early Summer	1'-3'	2'-3'	☀☀☀	💧	
Origanum libanoticum	Hopflower Oregano	Lavender	Late Summer, Early Fall	18"	24"	☀☀	💧💧	A; Attractive habit even after bloom has stopped
Paeonia suffruticosa	Mountain Peony	White	Mid Spring, Late Spring	5'	5'	☀☀☀	💧💧	P, R: Tree peonies are high maintenance
Paxistima canbyi	Canby's Mountain Lover	White	Mid Spring	12"	12"	☀	💧💧	A; Plant Select
Penstemon albidus	White Penstemon	White	Mid Spring, Late Spring, Early Summer	12-16"	12"	☀☀☀	💧	A; High habitat value for pollinators
Penstemon angustiflius	Narrow-leaved Penstemon	White	Mid Spring, Late Spring, Early Summer	12-24"	12"	☀☀☀	🚫 💧	A; High habitat value for pollinators
Penstemon barbatus	Scarlet Bugler	Red	Summer	36"	18"	☀☀☀	💧	A; High habitat value for pollinators
Penstemon eatonii	Firecracker Beardtongue	Red	Early Summer	24"	18"	☀☀☀	💧	A; High habitat value for pollinators
Penstemon grandiflorus	Large Beardtongue	Red	Summer	36"	12"	☀☀☀	💧	A; High habitat value for pollinators
Penstemon linariodes v coloradoensis	Blue-mat Penstemon	Blue	Late Spring, Early Summer	.5'-1'	.5'-1'	☀☀☀	💧	A
Penstemon x mexicalli 'Pike's Peak'	Pike's Peak Penstemon	Purple	Early Summer, Mid-Summer, Late Summer	1'-1.5'	.5'-1'	☀☀☀	💧	A
Penstemon x mexicalli 'Red Rocks'	Red Rocks Penstemon	Pink	Early Summer, Mid-Summer, Late Summer	1'-1.5'	.5'-1'	☀☀☀	💧	A
Penstemon pinifolius	Pine-leaf Beardtongue	Magenta	Summer	8"	15"	☀☀☀	💧	A; High habitat value for pollinators
Penstemon pseudospectabilis	Desert Beardtongue	Magenta	Late Spring, Early Summer, Mid-Summer, Late Summer	32"	24"	☀☀☀	💧	A; High habitat value for pollinators
Penstemon secundiflorus	One-sided Penstemon	Pink/ Purple	Summer	24"	24"	☀☀☀	💧	A; High habitat value for pollinators
Penstemon strictus	Beardtongue, Rocky Mountain Penstemon	Purple	Late spring	24"	24"	☀☀	💧	A; High habitat value for pollinators
Penstemon virens	Greenleaf Penstemon	Blue-Purple	Summer	12"	12"	☀☀☀	🚫 💧	A; High habitat value for pollinators
Penstemon virgatus	Tall One-Sided Penstemon	Pink	Early Summer	12"	18"	☀☀	🚫 💧	A; High habitat value for pollinators

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FORBS (Continued)								
Phlomis cashmeriana	Cashmere Sage	Light Pink	Early Summer	3'	2'			P, R; Nice texture; Moderate habitat value
Phlomis russeliana	Jerusalem Sage	Light Yellow	Late Spring, Early Summer, Mid-Summer	3'	2'			P, R
Phlox carolina	Thickleaf Phlox	Pink	Mid-Summer, Late Summer, Early Fall, Mid Fall	36"	30"			A
Phlox divaricata	Wild Blue Phlox	Light Pink, Light Blue	Mid Spring, Late Spring	18"	40"			A
Phlox maculata	Wild Sweetwilliam	Magenta	Late Summer, Early Fall, Mid Fall	18"	2'			A
Phlox subulata	Moss Phlox	Magenta, Violet	Mid Spring, Late Spring, Early Summer	6"	18"			A
Polemonium caeruleum	Jacob's Ladder	Yellow	Mid Spring, Late Spring	24"	18"			A
Primula denticulata	Primrose	Pink, Blue, Purple, White	Early Spring, Mid Spring	6"	12"			A
Pycnanthemum virginianum	Virginia Mountainmint	White	Mid-Summer, Late Summer	24"	36"			P, R
Ratibida columnifera	Prairie Coneflower	Yellow	Summer	18"	12"			A; Very tough plant
Ratibida pinnata	Pinnate Prairie Coneflower	Yellow	Early Summer, Mid-Summer, Late Summer, Early Fall	5'	18"			A
Rudbeckia hirta	Blackeyed Susan	Gold	Summer	3'	1'			P, R, UC, Streetscapes
Rudbeckia maxima	Great Coneflower	Yellow	Early Summer, Mid-Summer	7'	18"			P
Rudbeckia triloba	Brown-Eyed Susan	Yellow	Mid-Summer, Late Summer, Early Fall, Mid Fall	3'	3'			P, R, UC, Streetscapes
Salvia azurea var. grandiflora	Pitcher Sage	Blue	Mid-Summer, Late Summer, Early Fall, Mid Fall	4'	3'			P Hot/ late season forage for many bees, butterflies, hummingbirds
Salvia daghestanica	Dwarf Silver-leaf Sage	Blue	Late Spring, Early Summer	12"	12"			R, UC; Texture on silver foliage
Salvia greggii 'Furman's Red'	Salvia 'Furman's Red'	Red	Spring, Summer, Fall	2'-3'	2'-3'			A; Loves hot weather
Salvia nemerosa 'may night'	Salvia 'May Night'	Dark Blue	Late Spring – Early Summer	1.5'-2'	1'-1.5'			A; Can spread into natural areas; Deadhead
Salvia pachyphylla	Mojave Sage	Purple	Summer	2'-3'	2'-3'			I, R, UC; Low survival rate; Consider bare root planting; Hates organic matter and water
Salvia officinalis	Sage	Light Purple	Early Summer	24"	24"			R, UC; Fragrant foliage

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Scientific Name	Common Name	Flower Color	Blooming Season	Height	Spread	Sun/Shade Tolerance	Moisture Needs	Notes
FORBS (Continued)								
Saponaria ocymoides	Rock Soapwort	Pink	Late Spring, Early Summer	9"	30"	☀☀☀	💧	P, R, UC
Sedum 'Autumn Joy'	Autumn Joy Sedum	Pink	Late Summer	1.5'-2'	2'	☀☀☀	💧	A; Butterfly host plant
Santolina chamaecyparissus	Gray Santolina	Yellow	Mid-Summer	1.5'-2'	1.5'-2'	☀☀☀	💧	A
Sphaeralcea munroana	Tall Globemallow	Pink, Orange	Late Spring, Early Summer	1'-2'	.5'-1'	☀☀☀	💧	A
Sphaeralcea coccinea	Globe Mallow	Red, Orange	Spring, Summer, Early Fall	1'-1.5'	1'	☀☀☀	💧	A; Wildflower for natural areas
Stanleya pinnata	Princes Plume	Yellow	Spring, Summer, Early Fall	4'-5'	2'-5'	☀☀☀	⊘→💧	A
Thymus neiceffii	Juniper Leaf Thyme	Magenta	Early Spring, Mid Spring	1"	12"	☀☀☀	💧	P, R, UC
Thymus serpyllum	Creeping Thyme	Dark Pink	Early Summer, Mid-Summer	3"	12"	☀☀☀	💧	P, R, UC
Thymus vulgaris	Common Thyme	Light Purple	Late Spring, Early Summer, Mid-Summer	12"	12"	☀☀☀	💧	P, R, UC
Tradescantia occidentalis	Spiderwort	Purple	Summer	24"	18"	☀☀	💧	P, R
Verbena bipinnatifida wrightii	Wild Verbena	Purple	Summer	6"	18"	☀☀☀	💧	A; Not long-lived; Low priority
Veronica austriaca	Broadleaf Speedwell	Blue	Late Spring, Early Summer, Mid-Summer	18"	18"	☀☀☀	💧	P, R, UC, Streetscapes
Veronica filiformis	Creeping Speedwell	Light Blue	Early Spring, Mid Spring, Late Spring	3"	18"	☀☀	💧	P, R, UC, Streetscapes
Veronica liwanensis	Speedwell	Blue	Mid Spring, Late Spring	1"	18"	☀☀☀	💧	P, R, UC, Streetscapes
Veronica pectinata	Wooly Speedwell	Blue	Mid Spring	3"	18"	☀☀☀	💧	P, R, UC, Streetscapes
Veronica repens	Creeping Speedwell	White, Cream	Mid Spring, Late Spring	2"	18"	☀☀	💧	P, R, UC, Streetscapes
Veronica spicata	Veronica	Blue	Summer	2'-3'	2'-2.5'	☀☀☀	💧💧	P, R, UC, Streetscapes
Viola corsica	Corsican Violet	Violet, Purple	Mid Spring, Late Spring, Early Summer, Mid-Summer, Late Summer, Early Fall, Mid Fall	6"	8"	☀→☀☀☀	💧	P; Self-seeds
Zauschneria latifolia var. arizonica	Hardy Hummingbird Trumpet	Dark Orange	Late Spring, Early Summer, Mid-Summer, Late Summer, Early Fall, Mid Fall	6"	18"	☀☀☀	💧	A; Syn. Epilobium canum
Zinnia grandiflora	Plains Zinnia	Yellow	Summer	12"	12"	☀☀☀	⊘→💧	P
GRASSES								
Bouteloua curtipendula	Side Oats Gramma	Insignificant	Summer	1.5'-2.5'	1.5'-2'	☀☀☀	💧→💧💧	A

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GRASSES (Continued)								
Bouteloua gracilis	Blue Grama	Insignificant	Summer	12"	12'			A
Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Blue Grama	Golden	Summer	12"	12"			A; Very attractive in landscape
Buchloe dactyloides	Buffalograss	Insignificant	Summer	6"	12"			A; Turf option
Calamagrostis acutiflora 'Karl Foerster'	Feather Reed Grass	Insignificant	Late Spring, Summer, Fall, Winter	3'-5'	1.5'-2.5'			A; Often cut back in Spring
Festuca glauca 'Elijah Blue'	Blue Fescue	Green Purple	Summer	.75'-1'	.5'-.75'			A
Miscanthus sinensis 'Morning light'	Maiden Grass	Insignificant	Fall, Winter	4'-6'	2.5'-4'			A; Use natives when possible – not for use adjacent to native areas; Aggressive
Miscanthus sinensis 'Purpurascens'	Purple Maiden Grass	Insignificant	Fall, Winter	3'-4'	2'-3'			A; Use natives when possible; Fall color
Muhlenbergia reverchonii Undaunted	Undaunted Ruby Muhly Grass	Pink	Fall	30"	30"			A; Glows pink in the sunlight
Panicum virgatum 'shenandoah'	Red Switch Grass	Insignificant	August, Fall, Winter	3'-4'	3'-4'			A
Orzyopsis hymenoides	Indian Ricegrass	Insignificant	Summer	36"	18"			A
Panicum virgatum	Switchgrass	Insignificant	Summer	36"	24"			A; Any cultivar
Schizachyrium scoparium	Little Bluestem	Insignificant	Fall	4'	30"			A
Sorghastrum avenaceum (nutans)	Indian Grass	Insignificant	Summer	5'	4'			A
Sporobolus heterolepis	Prairie Dropseed	Insignificant	Summer, Fall	2'-3'	2'-3'			A

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TREES		Ornamental	Coniferous	Deciduous							
Acer grandidentatum	Big-Tooth Maple			x	Yellow Green	Late Spring	10’-30’	20’-30’			P, I, UC
Acer platanoides	Norway Maple			x	Yellow Green	Early Spring	50'	50'			I, P; Potential to be invasive
Acer rubrum	Red Maple			x	Red	Early Spring, Mid Spring	70'	50'			A
Acer tataricum 'HotWings'	Hot Wings Maple	x			Light Green	Mid Spring	20'	20'			A; Showy seeds, compact size
Acer x freemanii 'Autumn Blaze'	Autumn Blaze maple			x	N/A	N/A	35'	25'			A; Fall color, hardy
Aesculus glabra	Ohio Buckeye			x	Light Yellow	Late Spring, Early Summer	40'	40'			P, R; Fragrant flowers; Fall color; Has been invasive in other states
Aesculus hippocastanum	European Horse Chestnut			x	Light Pink	Late Spring	75'	65'			A; Has been invasive in other states
Amelanchier x grandiflora ‘Autumn Brilliance’	Autumn Brilliance Serviceberry			x	White	Mid Spring	15’-25’	15’-25’			A
Carpinus betulus ‘Fastigiata’	European Hornbeam			x	Yellow Green	Early Spring	30’-40’	20’-30’			A
Celtis occidentalis	Common Hackberry Western			x	Green	Mid Spring, Late Spring	60'	50'			I, P (in small groupings); Attractive when large, high bird habitat value and butterfly host
Cercis canadensis	Redbud	x		x	Pink	Early Spring, Mid Spring	30'	30'			P; Understory tree; Needs protection; Small scale ornamental; Early nectar source
Cercis 'Hearts of Gold'	Eastern Redbud	x		x	Light Red	Early Spring, Mid Spring	25'	25'			P; Understory tree; Needs protection; Small scale ornamental; Early nectar source
Corylus colurna	Turkish Filbert			x	Yellow	March	40’-80’	30’-5’			
Cupressus arizonica	Arizona Cypress		x		Insignificant	Spring	30’-40’	15’-25’			A
Crataegus crus-galli 'Inermis'	'Inermis' Cockspur Hawthorn			x	White	Late Spring, Early Summer	25'	20'			P, R, UC; High habitat value, early blooms and fall berries
Crataegus x mordenensis 'Toba'	Toba Hawthorn			x	Pink	Mid Spring, Late Spring	25'	20'			A; High habitat value, early blooms and fall berries
Gleditsia triacanthos f. inermis ‘Imperial’	Imperial Honeylocust			x	Yellow Green	Early Spring, Mid Spring	50'	40'			I, P, Streetscapes; High priority; Not messy; Light shade; Tough

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TREES (Continued)		Ornamental	Coniferous	Deciduous							
Gleditsia triacanthos f. inermis 'Skyline'	Skyline Honeylocust			x	Yellow Green	Early Spring, Mid Spring	35-45'	25-35'			I, P, Streetscapes
Gymnocladus dioica	Kentucky Coffee Tree	x		x	Greenish White	Late Spring, Early Summer	60'-80'	40'-55'			A
Juniperus chinensis	Chinese Juniper		x		N/A	N/A	20'	6'			A; Staple plantings throughout; Provides shelter; Resilient
Juniperus scopulorum	Rocky Mountain Juniper		x		N/A	N/A	30'	12'			A; Staple plantings throughout; Provides shelter; Resilient
Juniperus virginiana 'cupressifolia'	Hillspire Juniper			x	N/A	N/A	15'-30'	5'-15'			A
Koelreuteria paniculata	Golden Rain Tree	x		x	Yellow	Early Summer, Mid-Summer	30'	30'			P, Streetscapes; Tolerant of alkalinity
Magnolia stellata	Star Magnolia	x		x	White	Early Spring	20'	15'			A; A novelty in protected spot; Blooms are often damaged by frost
Malus 'Adams' or other cultivars	Flowering Crabapple	x		x	Pink	Mid Spring	20'	15'			P, R, Streetscape; Honeybee forage; Spring interest
Malus domestica (all varieties)	Apple Trees	x		x	Pinkish-White	April	15'-25'	15'-25'			R
Malus floribunda	Japanese Crabapple	x		x	Light Pink	Early Spring, Mid Spring, Late Spring	20'	30'			A; Fragrant flowers
Phellodendron amurense	Amur Cork Tree			x	Yellow Green	Late Summer, Early Fall	20'	30'			A; Habitat value for birds, butterflies; Is invasive in NE US
Picea abies	Norway Spruce		x		N/A	N/A	60'	30'			A; Shelter; Attracts birds; Invasive in northern US
Picea engelmannii	Engelmann Spruce		x		N/A	N/A	100'	15'			(to high elevations) A; Shelter; Winter interest
Picea glauca	White Spruce		x		N/A	N/A	60'	20'			A
Picea pungens	Colorado Spruce		x		N/A	N/A	60'	20'			(to high elevations) A; High habitat value; Easily available
Pinus flexilis 'Vanderwolf's pyramid'	Limberpine			x	N/A	N/A	20'-30'	10'-15'			(to high elevations) A
Pinus heldreichii	Bosnian Pine		x		N/A	N/A	70'	40'			A; Shelter; Winter interest
Pinus edulis	Pinion Pine			x	Yellow	Spring	20'-30'	10'-20'			A; Will die from over watering; Keep out of Kentucky Bluegrass
Pinus nigra	Austrian pine			x	N/A	N/A	40'-60'	10'-40'			A
Pinus ponderosa	Ponderosa Pine			x	N/A	N/A	60'-125'	25'-30'			A; Keep out of Kentucky Bluegrass
Populus x acuminata	Lanceleaf Cottonwood				Green, Brown	Spring	40'-60'	30'-40'			P, I; Spreads aggressively
Populus angustifolia	Narrowleaf Cottonwood				White	Spring	30'-50'	20'-30'			P, I; Spreads aggressively

CENTERRA APPROVED PLANT LIST

LEGEND

Preferred Species	**Do not over water**	**Abbreviations for Recommended District/Area:** UC = Urban Core R = Residential I = Industrial P = Parks A = All districts/areas (excluding natural areas)
Allowed Species	**Protect from sun and wind**	
Native*	**Moisture Rating (Low Moisture – High Moisture)**	
Pollinator**	**Sun Exposure Rating (No Sun – Full Sun)**	

Scientific Name	Common Name	Type			Flower Color	Blooming Season	Height	Spread	Sun/Shade Tolerance	Moisture Needs	Notes
TREES (Continued)		Ornamental	Coniferous	Deciduous							
Populus sargentii	Plains Cottonwood				Yellow	Late Winter, Early Spring	60’-80’	50’-60’			; A
Prunus armeniaca	Apricot	x		x	Pinkish-White	April	8’-10’	8’-10’			R
Prunus avium	Sweet Cherry	x		x	White	April	15’-30’	15’-30’			R
Prunus cerasifera	Cherry Plum	x		x	Light Pink	Early Spring, Mid Spring	25'	20'			A; Early bloomer; Fruit for birds
Prunus cerasus	Sour Cherry	x		x	White	April	7’-9’	8’-10’			R
Prunus domestica	Plum	x		x	White	April	8’-10’	8’-10’			R
Prunus maackii	Manchurian Cherry	x		x	White	Mid Spring, Late Spring	30'	25'			A; Early bloomer; Fruit for birds
Prunus padus	Bird Cherry	x		x	White	Mid Spring, Late Spring	30'	30'			A; Early bloomer; Fruit for birds
Prunus persica	Peaches	x		x	White to Deep Red	March-April	8’-10’	8’-10’			R
Prunus sargentii	Sargent Cherry	x		x	Pink	Mid Spring	25'	15'			A; Especially hardy, slightly later blooming
Prunus virginiana 'Shubert'	Canada Red Chokecherry	x		x	White	Spring	30'	25'			A; Dark foliage provides nice contrast
Ptelea trifoliata	Common Hoptree			x	Light Green	Early Summer	20'	20'			P, R, Streetscapes; Not easy to find
Pyrus spp.	Fruiting Pear	x		x	White	March-April	25’-30’	15’-20’			R
Pyrus salicifolia 'Pendula'	Willowleaf Pear	x		x	White	Mid Spring	25'	15'			A; Tolerant of clay and may drought-tolerant once established
Pyrus ussuriensis	Chinese Pear	x		x	White	Mid Spring	40'	40'			A
Quercus alba	White Oak			x	N/A	N/A	70'	50’			A
Quercus bicolor	Swamp White Oak			x	Yellow Green	Mid Spring	60'	60'			A
Quercus rubra	Northern Red Oak			x	Yellow Green	Late Spring	80'	75’			A
Quercus imbricaria	Shingle Oak			x	Yellow Green	Mid Spring	70'	60’			A
Quercus macrocarpa	Bur Oak			x	Yellow Green	Mid Spring	80'	80'			A
Quercus muehlenbergii	Chinkapin Oak			x	Yellow Green	Mid Spring	50'	50'			A
Quercus palustris	Pin Oak			x	Yellow Green	Mid Spring	70’	60’			A
Quercus robur	English Oak			x	Yellow Green	Mid Spring	60'	40'			A
Quercus robur 'Fastigiata' SKYROCKET	Fastigiate English Oak			x	Yellow Green	Mid Spring, Late Spring	60'	20'			A
Quercus rubra	Red Oak			x	Yellow Green	Late Spring	60'	60'			A

CENTERRA APPROVED PLANT LIST

LEGEND

Preferred Species	**Do not over water**	**Abbreviations for Recommended District/Area:** UC = Urban Core R = Residential I = Industrial P = Parks A = All districts/areas (excluding natural areas)
Allowed Species	**Protect from sun and wind**	
Native*	**Moisture Rating (Low Moisture – High Moisture)**	
Pollinator**	**Sun Exposure Rating (No Sun – Full Sun)**	

Scientific Name	Common Name	Type			Flower Color	Blooming Season	Height	Spread	Sun/Shade Tolerance	Moisture Needs	Notes
TREES (Continued)		Ornamental	Coniferous	Deciduous							
Quercus shumardii	Shumard Oak			x	Yellow Green	Mid Spring	50'	40'			A
Sophora japonica	Japanese Pagoda Tree	x		x	Cream	Mid-Summer, Late Summer	50'	45'			A
Styphnolobium japonicum	Pagoda Tree	x		x	White	Mid-Summer, Late Summer	75'	75'			A
Syringa pekinensis 'Morton'	Peking Lilac	x		x	White	Early Summer	20'	15'			A
Tilia cordata	Littleleaf Linden			x	Light Yellow	Early Summer	40'	35'			A; Fragrant
Syringa reticulata	Japanese Tree Lilac	x		x	Cream	Late Spring Early Summer	25'	20'			A; High value ornamental providing fragrance in late spring
Tilia americana	American Basswood			x	Light Yellow	Early Summer	50'	40'			P, Streetscapes; Reliable summer honeybee forage; Fragrant; Nice pyramidal habit
Tilia amurensis	Linden			x	Light Yellow	Late Spring	75'	50'			A; Adapts to many soils; Good urban tree; Fragrant
Tilia cordata	Littleleaf Linden			x	Light Yellow	Early Summer	40'	35'			A; Fragrant
Tilia tomentosa	Silver Linden			x	Yellow Green	Late Spring, Early Summer	60'	45'			A; Fragrant
Tilia x flavescens 'Glenleven'	Glenleven Linden			x	Yellow Green	Late Spring, Early Summer	75'	50'			A; Fragrant
Ulmus 'Frontier'	Frontier Elm			x	Insignificant	Mid Fall	35'	25'			A
Ulmus 'Heritage'	Heritage elm				Insignificant		40'	30'			A
Ulmus 'Morton' Accolade	Accolade Elm			x	Insignificant	Early Spring, Mid Spring	70'	40'			A

CENTERRA

DO NOT PLANT LIST

SPECIES NOT TO BE PLANTED IN CENTERRA

Scientific Name	Common Name	Notes
TREES		
Acer palmatum	Japanese Maple	This is very hard to grow
Acer saccharum	Sugar Maple	Chlorosis
Acer tataricum	Tatarian maple	Chlorosis, “Hot Wings” is allowed
Acer triflorum	Three-flowered Maple	
Betula x plettkei 'Golden Treasure'	Dwarf Birch	
Cornus kousa	Chinese Dogwood	Borderline hardy
Cornus mas	Cornelian Cherry Dogwood	Borderline hardy
Juniperus virginiana	Eastern Red Cedar	Invasive
Pinus aristata	Bristlecone Pine	Novelty; maintenance picky
Pinus contorta	Lodgepole Pine	Novelty; maintenance picky
Populus tremuloides	Quaking Aspen	
Robinia pseudoacacia	Black Locust	Suckers, thorny, borer damage
Thuja occidentalis	Arborvitae	
Ulmus americana	American Elm	
Ulmus parvifolia	Chinese Elm	Probably not hardy
Zelkova serrata	Japanese Zelkova	
Zelkova serrata 'Green Vase'	Green Vase Zelkova	
Zelkova serrata 'Musashino'	Musahino Zelkova	
Zelkova serrata 'Village Green'	Japanese Zelkova	
SHRUBS		
Buddleja alternifolia	Fountain Butterflybush	Invasive potential
Buxus 'Green Gem'	Green Gem Boxwood	Sun and windburn
Erica carnea	Winter Heath	Will not survive
Genista tinctoria	Dyer's Broom	Possible invasive
Genista tinctoria 'Royal Gold'	'Royal Gold' Broom	
FORBS		
Aegopodium podagraria	Bishop's Goutweed	Do not recommend; invasive potential
Aquilegia alpina	Alpine Columbine	Will not survive
Astragalus adsurgens	Prairie Milkvetch	
Astragalus agrestis	Field Milkvetch	
Astragalus ceramicus	Painted Milkvetch	
Astragalus crassicarpus	Ground Plum	
Astragalus gracilis	Slender Milkvetch	
Astragalus missouriensis	Missouri Milkvetch	
Astragalus mollissimus	Wooly Milkvetch	
Astragalus pectinatus	Narrowleaf Milkvetch	

SPECIES NOT TO BE PLANTED IN CENTERRA (CONTINUED)

Scientific Name	Common Name	Notes
FORBS		
Chamaemelum nobile	Roman Chamomile	
Dicentra eximia	Bleeding Heart	Won't thrive in this climate
Epimedium x rubrum	Bishop's Hat	Won't thrive in this climate
Euphorbia polychroma	Cushion Spurge	Other nonnative spurges can be invasive
Gypsophila paniculata	Baby's Breath	Invasive
Gypsophila repens	Creeping Baby's Breath	
Lavandula stoechas	Lavender	French and Spanish spp. not hardy
Leucanthemum x superbum	Shasta Daisy	Potentially invasive
Lupinus pusillus	Annual Lupine	Concern about invasive
Nepeta cataria	Catnip	Weed, Catnip escapes frequently into natural areas and has become a weed.
Parthenium integrifolium	Wild Quinine	
Persicaria polymorpha	Knotweed	Invasive potential, 3 species of knotweed listed on CO noxious weed list - this one is not
Persicaria virginiana	Jumpseed	Invasive potential
GRASSES (NOT TO BE USED IN SEED MIXES)		
Agropyron desertorum, A cristatum	Crested Wheatgrass	
Agropyron intermedium	Intermediate Wheatgrass	
Agropyron repens (Elytrigia repens or Elymus repens)	Quackgrass	
Agrostis stolonifera, A.alba, A. gigantea, A. palustris	Creeping Bentgrass	
Alopecurus pratensis	Meadow Foxtail	
Bromopsis inermis (Bromus inermis)	Smooth Brome or Hungarian Brome Grass	
Dactylis glomerata	Orchardgrass	
Festuca arundinacea (Lolium arundinaceum)	Tall Fescue (adjacent to wetlands)	
Festuca ovina var. ovina	Hard Fescue or Sheep Fescue	
Festuca pratensis	Meadow Fescue	
Phalaris arundinacea (Phalarioides arundinacea)	Reed Canary Grass	
Phleum pratense	Timothy	
Poa compressa	Canada Bluegrass	
Poa pratensis	Kentucky Bluegrass (adjacent to wetlands)	
Saccharum (erianthus) ravennae	Hardy Pampas Grass	

CENTERRA SEEDING, MULCHING AND SOIL PREPARATION

1.0 SOIL PREPERATION

1.1 Soil Amendments

A. Fertilizer

Phosphorous fertilizer is typically deficient in Colorado soils. Because phosphorous is a promoter of root growth it is extremely beneficial to new seedlings. Phosphorous is also immobile in clay soils, so it needs to be applied previous to tillage work so it will be incorporated into the root zone.

All areas shall be fertilized with 18-46-0 at 150 lbs/acre or an equivalent fertilizer that will provide no less than 27 lbs/acre of nitrogen and 69 lbs/acre of phosphorous. Empty fertilizer bags or weight ticket shall remain available for inspection.

B. Compost

All irrigated turf grass areas shall receive compost at the rate of 3 cubic yards per 1000 sq ft. Native grass areas shall receive compost at 2 cubic yards per 1000 sq ft. Weight tickets shall be available for inspection.

The compost shall be Biocomp Class 1 compost from A-1 Organics, or approved equivalent.

In wetland or moist meadow areas no compost will be required. The goal here is to keep nutrients out of the wetland areas to discourage rampant growth of cattails.

1.2 Tillage

Tillage is one of the most important steps that is often overlooked. All areas shall be thoroughly tilled to a depth of 6 - 8 inches after the soil amendments have been applied. This can be accomplished with rototilling machinery, or in larger areas, agricultural machinery such as chisel plows and/or discs. After tillage is complete, no dark areas resulting from the compost application shall be observed.

1.3 Fine Grading

After tillage is complete all areas shall be fine graded.

Grading for turf areas will require more detail than native areas. Turf areas shall be smooth, even and 1“below adjacent sidewalks and curbs.

The grade for native areas can be left somewhat rougher or less detailed, because these areas will be managed with a larger class of machinery, i.e. tractors and brush hog type rotary mowers.

2.0 SEED MIXES

2.1 Seed Selection Process

Seed mix selection must be reviewed and approved by DRC Member and High Plain Environmental Center Executive Director Jim Tolstrup.

There are three steps in the seed selection review process:

1) During the design phases

2) The seed mix bags must be signed off on by Jim Tolstrup before spreading the seed.

3) At the time of compliance inspection

2.2 Turf Seeding

A. Tall Fescue Turf Areas

These areas shall be seeded with Sharp Bros Seed Dura Turf Lawn Mix, or equivalent at the rate of 8 lbs/1000 sq ft:

Turf type tall fescue	80%
Kentucky bluegrass, turf quality	10%
Ryegrass, turf quality	10%

B. Kentucky Bluegrass Turf Areas

These areas shall be seeded with Sharp Bros Seed Premium Lawn Mix, or equivalent, at 3 lbs/1000 sq ft.

2.3 Native Grass Seeding

A. Native Grass Turf Areas - “Enhanced” short native grass that can be left un-mowed adjacent to formal landscaped areas

These areas shall be seeded with the following mix seeded at 2 lbs. PLS/1000 sq. ft. or 86 lbs./acre.

Buffalo grass, Cody or Bowie	40%
Blue grama, Alma or Bad River	20%
Sideoats grama, Vaughn or El Reno	20%
Slender Wheatgrass	20%

B. Upland Native Areas - for open space areas

	Lbs. PLS/acre	Seed Box Designation
Slender wheatgrass	3	smooth
Western wheatgrass, Rosana	3	smooth
Green needle grass, Lodorm	1	smooth
Canada wildrye, Mandan	1	smooth
Beardless wildrye, Shoshone	.5	smooth
Annual rye	2	smooth
Blue grama, Bad River	.5	fluffy
Sideoats grama, Vaughn	1.5	fluffy
Little bluestem, Camper	1.5	fluffy
Yellow Indiangrass Tomahawk or Neb 54	1	fluffy
Big bluestem, Pawnee	1	fluffy
Switchgrass, Blackwell	.5	fine
Alkali sacaton	.25	fine
Total	**16.75 pounds pure live seed per acre**	

C. Wetland or Wet Meadow Areas - for wet pond bottoms

These areas shall be seeded with High Plains Wet Meadow Mix by Western Native Seed or equivalent at the rate of 10 lbs./acre
In addition to the wetlands mix above add the following tall warm season grasses:

	Lbs. PLS/acre
Big Bluestem, Kaw or Pawnee	5
Yellow Indian grass, Tomahawk or Neb 54	4
Switchgrass, Blackwell	1

These added to the Wet Meadow mix totals 20 pounds/acre.

These areas will likely be broadcast seeded and not suitable to drill seeding because of their size and/or they may be wet. To facilitate broadcasting the seed more evenly, rice hulls should be added to bulk up the mix.

2.4 Erosion Control or Overlot Areas - for temporary soil stabilization

These areas shall be drill seeded with the following mix:

	Lbs PLS/acre

Slender wheatgrass	5
Western wheatgrass, Rosana	3
Canada wildrye, Mandan	3

Total 11 pounds Pure Live Seed/acre

3.0 SEED APPLICATION

3.1 Seed Drill

Native seeding must be completed with a native grass drill that has 3 seed boxes that are capable of metering and applying fine seed, fluffy seed and smooth seed. These three types of seed are designated on the seed mixes. Examples are smooth seed – wheatgrasses, fluffy seed - yellow Indian grass, and fine seed - alkali sacaton.

For the turf grasses or other mixes, small areas can be hand broadcast or a brillion drill or other appropriate drill should be used.

3.2 Seed Tags

Native seed mixes must be ordered so that fluffy seed, fine seed and smooth seed are bagged separately and can be placed in the appropriate seed box for application. Tags for all mixes including the native seed, must be provided for inspection prior to any seed being planted.

4.0 MULCH

4.1 Hydromulch

Native seed areas and turf grass areas shall be mulched with virgin woodfiber hydromulch with steam separated fibers. Recycled paper hydromulch or ground wood chip hydromulch are not acceptable. The rate of application shall be 2500 lbs/acre.

4.2 Straw Mulch

Overlot areas or temporary erosion control seeding shall be mulched with weed free certified straw at a rate of 2 tons/acre, crimped 3 - 4 inches into the soil surface.

5.0 SITE CLEANUP

Hydromulch overspray must be cleaned off all sidewalks, fences, light poles switch cabinets and landscape material. When straw mulching is complete all twine or bale wrap material must be picked up and removed.