Plant Community Composition and Group Annual Production

MLRA 53C ESD ID R053CY021SD - CLAYEY OVERFLOW

COMMON/GROUP NAME	SCIENTIFIC NAME	SYMBOL	1.1 Western Wheatgrass/Green Needlegrass/Bluestem Group	lbs./acre	% Comp
GRASSES & GRASS-LIKES				*2550 - 2850*	*85 - 95*
WHEATGRASS			**1**	**750 - 1350**	**25 - 45**
western wheatgrass	Pascopyrum smithii	PASM	1	750 - 1350	25 - 45
slender wheatgrass	Elymus trachycaulus	ELTR7	1	0 - 150	0 - 5
TALL WARM-SEASON GRASSES			**2**	**300 - 600**	**10 - 20**
big bluestem	Andropogon gerardii	ANGE	2	300 - 600	10 - 20
switchgrass	Panicum virgatum	PAVI2	2	30 - 150	1 - 5
tall dropseed	Sporobolus compositus var. compositus	SPCOC2	2	0 - 150	0 - 5
Indiangrass	Sorghastrum nutans	SONU2	2	0 - 150	0 - 5
COOL-SEASON BUNCHGRASSES			**3**	**300 - 600**	**10 - 20**
green needlegrass	Nassella viridula	NAVI4	3	300 - 600	10 - 20
foxtail barley	Hordeum jubatum	HOJU	3	30 - 150	1 - 5
Canada wildrye	Elymus canadensis	ELCA4	3	0 - 150	0 - 5
MID WARM-SEASON GRASSES			**4**	**30 - 240**	**1 - 8**
little bluestem	Schizachyrium scoparium	SCSC	4	30 - 150	1 - 5
sideoats grama	Bouteloua curtipendula	BOCU	4	0 - 150	0 - 5
SHORT WARM-SEASON GRASSES			**5**	**0 - 150**	**0 - 5**
blue grama	Bouteloua gracilis	BOGR2	5	0 - 150	0 - 5
buffalograss	Bouteloua dactyloides	BODA2	5	0 - 150	0 - 5
inland saltgrass	Distichlis spicata	DISP	5	0 - 90	0 - 3
OTHER NATIVE GRASSES			**6**	**30 - 150**	**1 - 5**
prairie junegrass	Koeleria macrantha	KOMA	6	30 - 90	1 - 3
Scribner panicum	Dichanthelium oligosanthes var. scribnerianu	DIOLS	6	0 - 60	0 - 2
other grasses		2GRAM	6	0 - 150	0 - 5
GRASS-LIKES			**7**	**30 - 150**	**1 - 5**
sedge	Carex spp.	CAREX	7	30 - 150	1 - 5
other grass-likes		2GL	7	0 - 90	0 - 3
FORBS			*9*	*150 - 300*	*5 - 10*
American licorice	Glycyrrhiza lepidota	GLLE3	9	0 - 60	0 - 2
American vetch	Vicia americana	VIAM	9	30 - 60	1 - 2
blue verbena	Verbena hastata	VEHA2	9	0 - 30	0 - 1
bluebells	Mertensia spp.	MERTE	9	0 - 30	0 - 1
cudweed sagewort	Artemisia ludoviciana	ARLU	9	30 - 90	1 - 3
false boneset	Brickellia eupatorioides	BREU	9	0 - 60	0 - 2
geranium	Geranium spp.	GERAN	9	0 - 60	0 - 2
goldenrod	Solidago spp.	SOLID	9	30 - 90	1 - 3
heath aster	Symphyotrichum ericoides	SYER	9	0 - 60	0 - 2
Indianhemp	Apocynum cannabinum	APCA	9	0 - 60	0 - 2
ironweed	Vernonia spp.	VERNO	9	0 - 30	0 - 1
Maximilian sunflower	Helianthus maximiliani	HEMA2	9	30 - 60	1 - 2
prairie coneflower	Ratibida columnifera	RACO3	9	0 - 30	0 - 1
rush skeletonweed	Lygodesmia juncea	LYJU	9	0 - 30	0 - 1
scarlet gaura	Gaura coccinea	GACO5	9	0 - 30	0 - 1
slimflower scurfpea	Psoralidium tenuiflorum	PSTE5	9	0 - 60	0 - 2
western ragweed	Ambrosia psilostachya	AMPS	9	30 - 60	1 - 2
western yarrow	Achillea millefolium var. occidentalis	ACMIO	9	30 - 60	1 - 2
wild bergamot	Monarda fistulosa	MOFI	9	0 - 60	0 - 2
wild parsley	Musineon divaricatum	MUDI	9	0 - 30	0 - 1
woolly verbena	Verbena stricta	VEST	9	0 - 60	0 - 2
native forbs		2FN	9	30 - 120	1 - 4
SHRUBS			*10*	*60 - 150*	*2 - 5*
false indigo	Amorpha fruticosa	AMFR	10	0 - 60	0 - 2
leadplant	Amorpha canescens	AMCA6	10	30 - 60	1 - 2
rose	Rosa spp.	ROSA5	10	30 - 60	1 - 2
silver sagebrush	Artemisia cana	ARCA13	10	0 - 90	0 - 3
snowberry	Symphoricarpos spp.	SYMPH	10	0 - 90	0 - 3
other shrubs		2SHRUB	10	0 - 60	0 - 2

Annual Production lbs./acre	LOW	RV	HIGH
GRASSES & GRASS-LIKES	#REF!	2670	#REF!
FORBS	#REF!	225	#REF!
SHRUBS	#REF!	105	#REF!
TOTAL	2300 -	3000	- 3800

This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic factors. RV = Representative value.

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	HCPC Avg % Comp	UPL	FACU	FAC	FACW	OBL
Western Wheatgrass	35		35			
slender wheatgrass	2.5		2.5			
big bluestem	15		15			
switchgrass	3			3		
tall dropseed	2.5	2.5				
Indiangrass	2.5		2.5			
Green Needlegrass	15	15				
foxtail barley	3				3	
Canada wildrye	2.5		2.5			
little bluestem	3		3			
sideoats grama	2.5	2.5				
blue grama	2.5	2.5				
buffalograss	2.5		2.5			
inland saltgrass	1.5				1.5	
Prairie Junegrass	2	2				
Scribner panicum	1		1			
American licorice	1		1			
American vetch	1.5		1.5			
blue verbena	0.5				0.5	
cudweed sagewort	2	2				
false boneset	1	1				
heath aster	1		1			
Indianhemp	1			1		
Maximilian sunflower	1.5		1.5			
prairie coneflower	0.5	0.5				
rush skeletonweed	0.5	0.5				
scarlet gaura	0.5	0.5				
slimflower scurfpea	1	1				
western ragweed	1.5		1.5			
western yarrow	1.5		1.5			
wild bergamot	1	1				
wild parsley	0.5	0.5				
woolly verbena	1	1				
false indigo	1					
leadplant	1.5	1.5				
rose	1.5		1.5			
silver sagebrush	1.5		1.5			
sums	119	34	75	4	5	0

Prevalence Index = (1X OBL #) + (2X FACW #) + (3X FAC #) + (4X FACU #) + (5X UPL #)/ Total #

PI = **4.134453782**

P.I. < 3 meets hydrophytic vegetation indicator test.

Does not pass the PI indicaor therefore the hydrophytic vegetation criteria is not me.