

Decision-Tree for MLRA 42.1., SD-1, Ecological Sites in Central New Mexico			Site Description	Site Name	Site Code
I. Flooded (low-lying landscape position, evidence of water flow and/or high production, narrow inset fans, bottomlands, river flood plains or meadows; <i>Flooded soils group</i> )					
	A. Bottomland/vegetated playa, water may sit for days				
			1. Soils not salt-affected, indicators are <i>Sporobolus wrightii</i> , <i>Sporobolus airoides</i> , <i>Atriplex confertifolia</i> , and <i>Atriplex canescens</i>	<b>Bottomland</b>	<a href="#">R042XA057NM</a>
			2. Soils salt-affected, indicators are <i>Sporobolus airoides</i> , <i>Distichlis spicata</i> , <i>Sporobolus wrightii</i> , <i>Atriplex canescens</i> .	<b>Salty Bottomland</b>	<a href="#">R042XA055NM</a>
II. Not Flooded (hills, convex portions of piedmont slopes, broad basin floors)					
	A. Slopes generally <15%, no exposed rock, piedmont and basin floor landforms				
			1. Soil surface is loamy sand to medium sand loam, subsoil is nongravelly and not finer than clay loam. If gypsum present, go to 2 ( <i>Sandy soils group</i> ) Soils generally deep		
			a. Soil has a calcic, cambic, or argillic horizon within 1 m	<b>Sandy</b>	<a href="#">R042XA051NM</a>
			b. Soil does not have a clear pedogenic horizon, usually torripsamments, indicators are <i>Sporobolus giganteus</i> and <i>Psoralea scoparius</i>	<b>Deep Sand</b>	<a href="#">R042XA054NM</a>
			2. Soil surface is fine sandy loam to clay loam, subsoil is non gravelly loam to clay ( <i>Loamy soils group</i> )		
			a. underlying material is a dense layers of soft or cemented gypsum material and gypsiferous earth at depths less than 8 inches ; indicators are <i>Sporobolus airoides</i> and/or <i>Bouteloua eriopoda</i> / <i>Muhlenbergia porteri</i> with high cover of <i>Atriplex</i> ; abundant cryptobiotic crusts. May have patches of gyp outcrop.	<b>Gyp Upland</b>	<a href="#">R042XA063NM</a>
			b. Soils are moderately deep to deep. Surface textures range from loam, clay loam, silty clay loam and some clay. Substratum textures are very fine sandy loam, silt loam, clay loam, or silty clay loam. This is a grassland site with shrubs scattered throughout dominated by <i>Pleuraphis</i> / <i>Panicum</i> / <i>Sporobolus</i> species.	<b>Swale</b>	<a href="#">R042XA062NM</a>

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			c. Soils are deep and very deep. Surface textures are Clay, Silty Clay Loam, Silty sandy clay, some have loam and very fine sandy loam. Surface may reveal cracks. Predominately grassland dominated by <i>Sporobolus airoides</i> .	Clayey	<a href="#">R042XA061NM</a>
			d. These soils are deep and well drained. The surface textures are fine sandy loam, very fine sandy loam, silty clay loam, clay loam or loam. Predominately grassland characterized by short grasses dominated by <i>Bouteloua eriopoda</i> and <i>Muhlenbergia porteri</i> .	Loamy	<a href="#">R042XA052NM</a>
		3. Soil surface gravelly, soil profile gravelly to skeletal ( <i>Gravelly soils group</i> )			
			a. Soils are shallow to deep. Surface textures are very cobbly loam, gravelly sandy loam, cobbly sandy loam, cobbly clay loam or gravelly fine sandy loam. Typically the potential plant community is a shrub-grassland complex dominated by <i>Bouteloua</i> spp.	Mesa Breaks	<a href="#">R042XA060NM</a>
			b. Sandy surface and subsoil, weak structure, no carbonate cementation, no more than stage 1 carbonate accumulation, may be hummocky and/or near arroyos/highly dissected landforms, indicators are <i>Krascheninnikovia lanata</i> mixed with <i>Bouteloua</i> and <i>Hesperostipa</i> spp., may have diverse plants.	Gravelly Sand	<a href="#">R042XA053NM</a>
	B. Slopes generally > 15%, often revealing exposed rock, soil depth < 50cm, pediments, hills, mountains, lava flows ( <i>Lithic soils group</i> )				
			1. These are shallow, stony, cobbly, or gravelly. Surface textures are Extremely cobbly sandy loam, very gravelly sandy loam or sandy loam. Predominately grassland characterized by short- and mid-grasses, dominated by <i>Bouteloua</i> / <i>Sporobolus</i> / <i>Muhlenbergia</i> spp.	Malpais	<a href="#">R042XA056NM</a>
			2. Rock is other igneous (granite, andesite, rhyolite), consolidated conglomerates, or sandstone. The soils are shallow to moderately deep. Surface textures are Very Channery loam, Channery loam, Extremely Gravelly loamy coarse sand, very gravelly loamy coarse sand. Generally the site is a mixed grassland–shrub complex with scattered trees, especially on north and east exposures, dominated by <i>Bouteloua</i> spp./ <i>Fallugia paradoxa</i> / <i>Rhus microphylla</i> / <i>Rhus trilobata</i> / <i>Nolina microcarpa</i> / <i>Quercus turbinella</i> / <i>Yucca</i> .	Hills	<a href="#">R042XA058NM</a>
			3. Rock is Limestone. Soils are very shallow or shallow. Surface textures are very cobbly loam, very stony loam, or very flaggy loam. This is generally a mixed grass-shrub complex on all exposures, dominated by <i>Bouteloua</i> / <i>Muhlenbergia</i> / <i>Hesperostipa</i> spp., and <i>Atriplex canescens</i> / <i>Keninnikovia lanata</i> .	Limestone Hills	<a href="#">R042XA059NM</a>