

New Mexico Riparian Habitat Map Legend Version 2.0 Plus

The New Mexico Riparian Habitat Map Legend is presented below in Table 1. The legend has three hierarchical levels:

Level 1. General vegetation types characterized by major lifeforms and strata—forest and woodlands, shrublands, and herbaceous vegetation— plus a category of non-vegetated Miscellaneous Land Types.

Forests and woodlands: polygons dominated by stands of closed-canopied forest or opencanopied woodlands that are generally taller than 5m (some stands are dominated by short-statured species such as junipers that are < 5m). Shrub patches or herbaceous vegetation may be present under trees and in openings.
Shrublands: polygons dominated by dense to open stands (> 25% canopy cover) of woody shrubs or sapling trees between 0.5 and 5 m. Scattered mature trees or small open areas dominated by herbaceous vegetation may be present.
Herbaceous Vegetation: polygons dominated by stands of grass-like species (graminoids) and/or forbs. Trees and shrubs may be present as scattered patches or individuals. Some open areas may be predominantly bare ground.

Level 2. Mid-level units with broad categories of elevation zones (Montane > 6,500 ft and Lowland <6,500 ft), native versus non-native woody species, natural and semi-natural vegetation, riparian versus upland vegetation, and specific elements of Miscellaneous Land Types (e.g., roads, built-up areas, agriculture, etc.).

Level 3. Fine-scale units that reflect leaf retention (Deciduous versus Evergreen); specific species composition based on origin (Native, Russian Olive, or Tamarisk), or site characteristics (wet, dry, or alkaline). Each Level 3 unit is cross-referenced to U.S. National Vegetation Classification (<u>USNVC</u>) Alliances that reflect specific species composition, environments, and ecology. See the <u>New Mexico Riparian Habitat Map Annotated</u> Legend spreadsheet for more details on the NVC classes.

In addition to these levels, we sometimes added a modifier to a polygon. This is additional information about habitat context or treatments. These are explained in Table 2.



el Codes	and Name	s	L3 M	υI
FOREST	and WOO	DLAND		
IA	Montane	e Ripariar	n Forest and Woodlands	
		IA1	Montane Native Evergreen Riparian Forest	
		IA2	Montane Native Evergreen-Deciduous Riparian Forest	
		IA3	Montane Native Deciduous Riparian Forest	
IB	Lowland	Riparian	Forest and Woodlands	
		IB1	Western Lowland Native Deciduous Riparian Forest	
		IB2	Great Plains Lowland Native Deciduous Riparian Forest	
		IB3	Lowland Native-Introduced Russian Olive Deciduous Riparian Forest	
		IB4	Lowland Native-Introduced Tamarisk Deciduous Riparian Forest	
		IB5	Lowland Native-Introduced Russian Olive - Tamarisk Deciduous Riparian Forest	
		IB6	Lowland Native Evergreen Dry Riparian Forest	
		IB7	Lowland Native Evergreen-Deciduous Riparian Forest	
		IB8	Southwest Warm Desert Native Deciduous Riparian Forest	
		IB9	Southwest Desert Native Dry Deciduous Riparian Woodland	
IC	Lowland	-	red Riparian Woodland and Scrub	
		IC1	Russian Olive Introduced Riparian Woodland and Scrub	
		IC2	Tamarisk Introduced Riparian Woodland and Scrub	
		IC3	Russian Olive - Tamarisk Introduced Riparian Woodland and Scrub	
		IC4	Mixed Introduced Forest and Scrub	
ID	Upland F	orest an	d Woodland	
		ID1	Upland Forest and Woodland	
IE	Semi-Na	tural Ripa	arian Woodland and Scrub	
		IE1	Semi-Natural Riparian Forest and Scrub	
SHRUBI	LAND			
IIA	Montane	e Ripariar	n Shrubland	
		IIA1	Subalpine-Montane Riparian Shrubland	
		IIA2	Montane Dry Riparian Shrubland	
IIB	Lowland	Ripariar	n Shrubland	
		IIB1	Lowland Wet Riparian Shrubland	
		IIB2	Lowland Dry Riparian Shrubland	
		IIB3	Desert Alkaline-Saline Wet Shrubland	
		IIB4	Lowland Mixed Native- Russian Olive Riparian Scrub	
		IIB5	Lowland Mixed Native-Introduced Tamarisk Riparian Scrub	
		IIB6	Lowland Mixed Native - Russian Olive - Tamarisk Riparian Woodland and Scrub	
IIC	Upland S			
		IIC1	Upland Shrubland	
	CEOUS VEG			
IIIA	Montane		s and Wet Meadows	
		IIIA1	Subalpine and Montane Wetland	
		IIIA2	Montane Wet Meadow	
IIIB	Lowland		and Wet Meadows	
		IIIB1	Western Lowland Marsh	
		IIIB2	Great Plains Lowland Marsh	
		IIIB3	Arid West Lowland Wet Meadow Great Plains Lowland Wet Meadow	
		IIIB4		

Table 1. New Mexico Riparian Habitat Map Legend structured

	IIIC	Montane	Montane Dry Meadow and Grassland				
IIIC			IIIC1	Montane Dry Riparian Meadow and Grassland	10		
	IIID	Lowland	d Dry Meadow and Grassland				
IIID1		IIID1	Western Lowland Salt Meadow and Dry Grassland	8			
			IIID2	Great Plains Lowland Salt Meadow and Dry Grassland	39		
	IIIE	Semi-nat	emi-natural Herbaceous Vegetation				
1		IIIE1	Ruderal Herbaceous Meadow	47			
			IIIE2	Pasture Wetlands	48		
	IIIF Upland Grassland						
			IIIF1	Upland Grassland	32		
IV N	IV MISCELLANEOUS LAND TYPES						
	IVA	Bare Unv	re Unvegetated				
			IVA1	Riparian Bare Ground/Rockland [non-channel]	2		
	IVB	Water/C	ter/Channel IVB1 Open Channel Riverwash/Water/Non-vegetated Bars iculture				
					22		
	IVC	Agricultu					
			IVC1	Agriculture – Cultivated crops	1		
			IVC2	Agriculture – Hay/Pasture	49		
	IVD	Urban/B	ban/Built-Up Areas				
			IVD1	Development/Disturbed Ground	21		
	IVE	Roads					
			IVE1	Roads	14		
	IVF Upland Non-Veg						
			IVF1	Upland Bare Ground/Rockland	33		

Table 2. Map unit modifiers assigned as needed to polygons of the New Mexico Riparian Habitat Map. MU_ID_mod refers to the attribute name in the geodatabase for the map.

Modifier	MU_ID_mod	Rules
Agriculture	1	This can include herbaceous vegetation, shrublands, and woodlands that occur in an agricultural setting, outside of the current floodplain.
Treatment/Disturbed	2	Assigned where there is high confidence that mapped polygons have evidence of either vegetation treatment (mechanically or by herbicide) or other disturbances such as a fires or floods that have recently altered the site. Based on NAIP imagery used in a given mapping domain.
Russian olive	3	Assigned when considered a major inclusion in stands but usually <25% of the polygon area (may be more in Semi- Natural woodland and scrub or Agriculture)
Tamarisk	4	Assigned when considered a major inclusion in stands but usually <25% of the polygon area (may be more in Semi- natural woodland and scrub or Agriculture)

Modifier	MU_ID_mod	Rules
Russian Olive- Tamarisk	5	Assigned when considered a major inclusion in stands but usually <25% of the polygon area (may be more in Semi- natural woodland and scrub or Agriculture)
Ditch Bank	6	This modifier was used to indicate Semi-Natural Riparian Woodland and Scrub growing along a ditch bank outside th current active floodplain or when stands of natural vegetar were growing along a ditch bank (levies) inside the floodpl
Native Vegetation	7	Assigned to indicate >25% cover within stands classified as Semi-natural woodland and scrub or Agriculture, or as maj inclusion in non-native-dominated polygons (i.e., Russian o and/or tamarisk).
Mixed native-exotic	8	Used as a modifier to indicate >25% cover within stands classified as Semi-natural woodland and scrub or Agricultu or as major inclusion in native polygons (e.g., willow or cottonwood).
Marsh/Wetland	9	Assigned when considered a major inclusion in stands but usually <25% of the polygon area (may be more in Semi- natural woodland and scrub or Agriculture)
Treatment/Disturbed field verified	10	Used to indicate stands that had been significantly modifie treatment, insects, or fire after the image date of the map domain based on field data.
Dead Overstory	11	Used to indicate herbaceous stands with a dead overst which include cottonwoods, willows, or other shrubs and t with the exception of tamarisk.
Alkali Flat	13	Modifier for Alkali flats that are bare or grassland but with obvious shrub cover and thus not assigned to "Desert Alka Saline Wet Shrubland" (MU_ID: 40).
Burned 2022	22	Burned in 2022, Hermits Peak/Calf Canyon Fires. Ac opportunistically.
Fen	66	Wetland that might be a Fen. Added opportunistically.
Dead Tamarisk Overstory	99	Used to indicate stands that have >90% dead tamarisk in the Many tamarisk dominated stands have died by chent treatment and have changed in community type but still have structure of the dead trees/shrubs in them.

Modifier	MU_ID_mod	Rules
Managed for Natural Habitat	34	Used on areas like Bosque Del Apache and Sevilletta NWR or other public lands (BOR, MRGCD, etc.) that are on the opposite side of levees from the river or otherwise hydrologically disconnected from the river but being managed for wildlife habitat or natural vegetation. The MU_ID (Level 3 Vegetation Type) is assigned based on composition and this modifier is added to indicate it is hydrologically separated from the current floodplain. These areas were identified based on public lands where management is known, or on large swaths of naturally established vegetation directly adjacent to levees that have not been converted to ag/urban. This applies only to riparian vegetation that is inside a managed land-use area. It does NOT apply to any riparian vegetation that is clearly within a developed area, or vegetation along ditch banks or within agricultural areas and old fields; those areas are mapped as "Semi-Natural Riparian Woodland and Scrub" (MU_ID: 34).
Sporobolus wrightii	30	Used only in the Animas Creek in the bootheel of New Mexico to distinguish large stands dominated by <i>Sporobolus wrightii</i> .