

United States Department of Agriculture  
Natural Resources Conservation Service

03/25/2002

HYDRIC SOILS LIST

White Sands Missile Range, New Mexico, Parts of Dona Ana, Lincoln, Otero, Sierra and Socorro Counties: Detailed Soil Map Legend

FOTG - II Table HS

Map symbol and map unit name	Component	Hydric	Local landform	Hydric soils criteria				Natural Condition	Acres
				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
Ac: ACTIVE DUNE LAND, GYPSUM	ACTIVE DUNE LAND	No	---	---	---	---	---	---	103,312
AD: ALADDIN ASSOCIATION	ANKLAM	No	---	---	---	---	---	---	1,074
	ALADDIN	No	---	---	---	---	---	---	586
	ARROYO WASH	Yes	arroyo	---	---	---	---	---	---
	ROCK OUTCROP	No	---	---	---	---	---	---	---
	STONY ROCK LAND	No	---	---	---	---	---	---	---
BD: BERINO-DONA ANA ASSOCIATION	BERINO	No	---	---	---	---	---	---	41,502
	DONA ANA	No	---	---	---	---	---	---	24,901
	BLUEPOINT	No	---	---	---	---	---	---	---
	MIMBRES	No	---	---	---	---	---	---	---
	SINKS/POTHOLE S	Yes	mountain valley	---	---	---	---	---	---
	WINK	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
Do:									
DEAMA-ROCK OUTCROP COMPLEX	DEAMA	No	---	---	---	---	---	---	30,104
	ROCK OUTCROP	Unranked	---	---	---	---	---	---	30,104
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	ROCK OUTCROP	No	---	---	---	---	---	---	---
	SHALE ROCK LAND	No	---	---	---	---	---	---	---
	STONY ROCKLAND	No	---	---	---	---	---	---	---
DP:									
DONA ANA-PAJARITO-BLUEPOINT ASSOCIATION	DONA ANA	No	---	---	---	---	---	---	4,781
	PAJARITO	No	---	---	---	---	---	---	4,781
	BLUEPOINT	No	---	---	---	---	---	---	3,984
	GLENDALE	No	---	---	---	---	---	---	---
	MIMBRES	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
Du:									
DUNE LAND-DONA ANA COMPLEX	DUNE LAND	Unranked	---	---	---	---	---	---	62,446
	DONA ANA	No	---	---	---	---	---	---	39,029
	BLUEPOINT	No	---	---	---	---	---	---	31,223
	BERINO	No	---	---	---	---	---	---	---
	HOLLOMAN	No	---	---	---	---	---	---	---
	NICKEL	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---
DY:									
DUNE LAND-YESUM ASSOCIATION	DUNE LAND	Unranked	---	---	---	---	---	---	39,301
	YESUM	No	---	---	---	---	---	---	21,437
	BERINO	No	---	---	---	---	---	---	---
	HOLLOMAN	No	---	---	---	---	---	---	---
	NICKEL	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
Gr: GILLAND-ROCK OUTCROP COMPLEX	GILLAND	No	---	---	---	---	---	---	29,844
	ROCK OUTCROP	Unranked	---	---	---	---	---	---	26,113
	ROCK OUTCROP	No	---	---	---	---	---	---	---
Gs: GYPSUM LAND, HUMMOCKY	GYPSUM LAND	Unranked	---	---	---	---	---	---	23,156
	GYPSUM DUNES	No	---	---	---	---	---	---	---
	HOLLOMAN	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---
Gu: GYPSUM LAND, LEVEL	GYPSUM LAND	Unranked	---	---	---	---	---	---	48,605
	DUNE LAND	No	---	---	---	---	---	---	---
	GYPSUM LAND	No	---	---	---	---	---	---	---
Gv: GYPSUM ROCK LAND	GYPSUM ROCK LAND	Unranked	---	---	---	---	---	---	3,136
	TANBARK	No	---	---	---	---	---	---	2,196
	ROCK OUTCROP	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
InT: INTERMITTENT LAKES	INTERMITTENT LAKES	Unranked	---	---	---	---	---	---	15,407
LA: LA FONDA ASSOCIATION	LA FONDA	No	---	---	---	---	---	---	4,424
	LA FONDA	No	---	---	---	---	---	---	3,932
	GYPSUM LAND	No	---	---	---	---	---	---	---
Lf: LAVA FLOWS	LAVA FLOWS	Unranked	---	---	---	---	---	---	45,028
Lr: LOZIER-ROCK OUTCROP COMPLEX	LOZIER	No	---	---	---	---	---	---	78,978
	ROCK OUTCROP	Unranked	---	---	---	---	---	---	61,427
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	DEAMA	No	---	---	---	---	---	---	---
	GYPSUM LAND	No	---	---	---	---	---	---	---
	STONY LAND	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
MA:									
MARCIAL-UBAR ASSOCIATION	MARCIAL	No	---	---	---	---	---	---	67,792
	UBAR	No	---	---	---	---	---	---	43,140
	GYPSUM LAKES	No	---	---	---	---	---	---	---
	HOLLOMAN	No	---	---	---	---	---	---	---
	INTERMITTENT LAKES	Yes	valley	---	---	---	---	---	---
	ROCK OUTCROP	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---
Me:									
MEAD SILT LOAM	MEAD	No	---	---	---	---	---	---	24,372
	GYPSUM LAND	No	---	---	---	---	---	---	---
	ROCK OUTCROP	No	---	---	---	---	---	---	---
MG:									
MIMBRES-GLENDALE ASSOCIATION	MIMBRES	No	---	---	---	---	---	---	33,763
	GLENDALE	No	---	---	---	---	---	---	15,347
	NICKEL	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
NT: NICKEL-TENCEE ASSOCIATION	NICKEL	No	---	---	---	---	---	---	131,182
	TENCEE	No	---	---	---	---	---	---	54,659
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	MIMBRES	No	---	---	---	---	---	---	---
	SONOITA	No	---	---	---	---	---	---	---
OB: ONITE-BLUEPOINT-WINK ASSOCIATION	ONITE	No	---	---	---	---	---	---	66,192
	BLUEPOINT	No	---	---	---	---	---	---	41,370
	WINK	No	---	---	---	---	---	---	33,096
	BERINO	No	---	---	---	---	---	---	---
	PAJARITO	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---
Os: OSCURA SILTY CLAY	OSCURA	No	---	---	---	---	---	---	3,845
	MIMBRES	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
RK:									
ROCKLAND COOL	ROCKLAND COOL	Unranked	---	---	---	---	---	---	70,196
	RUBBLE LAND	Unranked	---	---	---	---	---	---	60,168
	DEAMA	No	---	---	---	---	---	---	40,112
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	LA FONDA	No	---	---	---	---	---	---	---
RL:									
ROCK LAND, WARM	ROCK LAND	Unranked	---	---	---	---	---	---	18,588
	RUBBLE LAND	Unranked	---	---	---	---	---	---	15,933
	LOZIER	No	---	---	---	---	---	---	10,622
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	MIMBRES	No	---	---	---	---	---	---	---
SH:									
SHALE ROCK LAND	RUBBLE LAND	Unranked	---	---	---	---	---	---	8,316
	SHALE ROCK LAND	Unranked	---	---	---	---	---	---	8,316
	DEAMA	No	---	---	---	---	---	---	3,564
	ROCK OUTCROP	No	---	---	---	---	---	---	---
	STONY LAND	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
SP: SONOITA-PINALENO-ALADDIN ASSOCIATION	SONOITA	No	---	---	---	---	---	---	10,041
	PINALENO	No	---	---	---	---	---	---	7,172
	ALADDIN	No	---	---	---	---	---	---	5,738
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	ROCK OUTCROP	No	---	---	---	---	---	---	---
SR: SOTIM-RUSSLER ASSOCIATION	SOTIM	No	---	---	---	---	---	---	19,762
	RUSSLER	No	---	---	---	---	---	---	8,234
	GYPSUMLAND	No	---	---	---	---	---	---	---
	MARCIAL	No	---	---	---	---	---	---	---
	MIMBRES	No	---	---	---	---	---	---	---
	NICKEL	No	---	---	---	---	---	---	---
	YESUM	No	---	---	---	---	---	---	---

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				Hydric criteria code	Meets saturation criteria	Meets flooding criteria	Meets ponding criteria		
TC:									
TENCEE-NICKEL ASSOCIATION, GENTLY SLOPING	TENCEE	No	---	---	---	---	---	---	4,144
	NICKEL	No	---	---	---	---	---	---	1,275
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	NICKEL	No	---	---	---	---	---	---	---
	TENCEE	No	---	---	---	---	---	---	---
TK:									
TENCEE-NICKEL ASSOCIATION, STEEP	TENCEE	No	---	---	---	---	---	---	6,150
	NICKEL	No	---	---	---	---	---	---	5,467
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	NICKEL	No	---	---	---	---	---	---	---
	TENCEE	No	---	---	---	---	---	---	---
Ye:									
YESUM VERY FINE SANDY LOAM	YESUM	No	---	---	---	---	---	---	45,629
	GYPSUM LAND	No	---	---	---	---	---	---	---
	HOLLOMAN	No	---	---	---	---	---	---	---
	INT. LAKES	Yes	flood-plain playa	4,3	NO	YES	YES	neither	---
	MARCIAL	No	---	---	---	---	---	---	---
	MIMBRES	Yes	flood plain	4	NO	YES	NO	neither	---

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YH: YESUM-HOLLOMAN ASSOCIATION	YESUM	No	---	---	---	---	---	---	101,582
	HOLLOMAN	No	---	---	---	---	---	---	87,070
	GYPSUM LAND	Unranked	---	---	---	---	---	---	58,047
	ARROYO BOTTOMS	Yes	arroyo	---	---	---	---	---	---
	HOLLOMAN	No	---	---	---	---	---	---	---
	INTERMITTENT LAKES	Yes	flood-plain playa	4,3	NO	YES	YES	neither	---
	MIMBRES	Yes	flood plain	4	NO	YES	NO	neither	---

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use and management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.

1. All Histosols except Folists, or
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
  - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or

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Continued:

b. poorly drained or very poorly drained and have either:

(1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in),

or for other soils

(2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or

(3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in, or

3. Soils that are frequently ponded for long duration or very long duration during the growing season, or

4. Soils that are frequently flooded for long duration or very long duration during the growing season.

**Hydric Soil Interpretations**

Hydric soils are developed under conditions sufficiently wet to support the growth and regeneration of hydrophytic vegetation. This listing includes phases of soil series that may or may not have been drained. Some soil series, designated as hydric, have phases that are not hydric depending on water table, flooding, and ponding characteristics.

This list will have a number of agricultural and nonagricultural applications. These include assistance in land-use planning, conservation planning, and assessment of potential wildlife habitat. An area that meets the hydric soil criteria must also meet the hydrophytic vegetation and wetland hydrology criteria in order for it to be classified as a jurisdictional wetland (See the "Federal Manual for Identifying and Delineating Jurisdictional Wetlands", 1989).

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Continued:

**Definition of Hydric Soil**

A hydric soil is a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part. The following criteria reflect those soils that meet this definition.

**Criteria for Hydric Soils**

1. All Histosols except Folists, or
2. Soils in Aquic suborder, Aquic subgroup, Albolls suborder, Salorthids great group, Pell great groups of Vertisols, Pachic subgroups, or Cumulic subgroups that are:
  - a) Somewhat poorly drained and have a frequently occurring water table at less than 0.5 feet from the surface for a significant period (usually more than 2 weeks) during the growing season, or
  - b) Poorly drained or very poorly drained and have either:
    - (1) A frequently occurring water table at less than 0.5 feet from the surface for a significant period (usually more than 2 weeks) during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches, or for other soils
    - (2) A frequently occurring water table at less than 1.0 feet from the surface for a significant period (usually more than 2 weeks) during the growing season if permeability is equal to or greater than 6.0 inches/hour in all layers with 20 inches, or
    - (3) A frequently occurring water table at less than 1.5 feet from the surface for a significant period (usually more than 2 weeks) during the growing season if permeability is less than 6.0 inches/hour in any layer within 20 inches, or
3. Soils that are frequently ponded for long duration or very long duration during the growing season, or

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4. Soils that are frequently flooded for long duration or very long duration during the growing season.