



United States  
Department of  
Agriculture

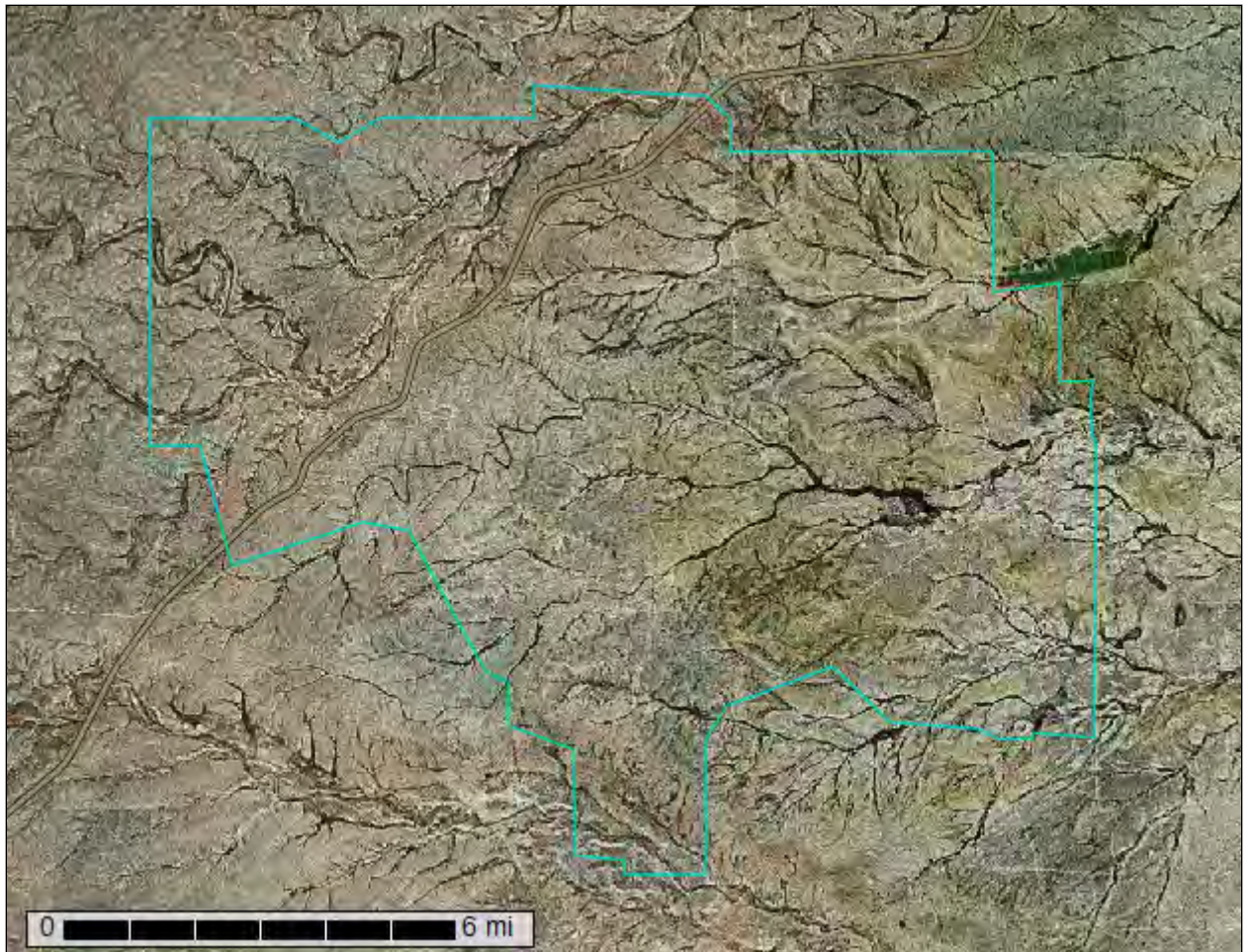
**NRCS**

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for Chaves County, New Mexico, Southern Part; and Eddy Area, New Mexico

FRR\_East



# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# How Soil Surveys Are Made

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

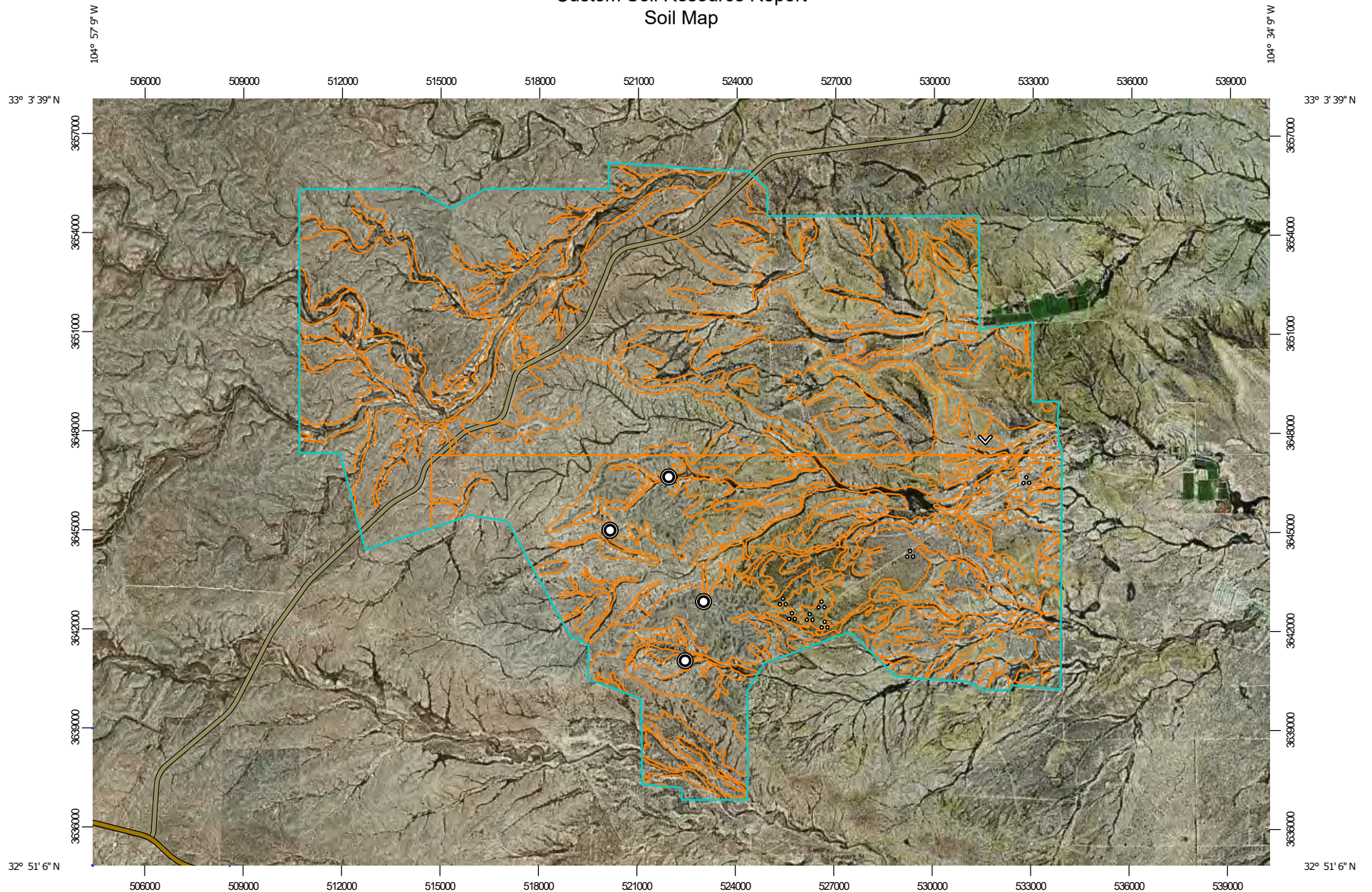
# Soil Map

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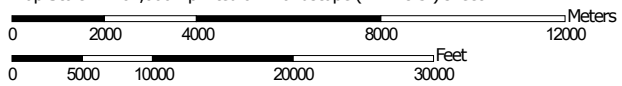
The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



# Custom Soil Resource Report Soil Map



Map Scale: 1:164,000 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

**Special Point Features**

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:20,000 to 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Southern Part  
 Survey Area Data: Version 15, Jun 8, 2020

Soil Survey Area: Eddy Area, New Mexico  
 Survey Area Data: Version 16, Jun 8, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

**MAP LEGEND**

**MAP INFORMATION**

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BP	Bigetty-Pecos association	367.8	0.5%
EcC	Ector-Rock outcrop complex, 0 to 9 percent slopes	10,485.5	14.1%
EcD	Ector-Rock outcrop complex, 9 to 30 percent slopes	4,416.8	6.0%
HSE	Holloman-Gypsum land complex, 30 to 50 percent slopes	34.6	0.0%
Lt	Lozier-Tencee complex	4,844.7	6.5%
PGB	Pecos silty clay loam, nonsaline, 0 to 3 percent slopes	112.8	0.2%
PH	Pecos-Dev association	3,420.0	4.6%
RF	Reakor loam, 0 to 3 percent slopes	786.5	1.1%
RH	Reakor-Pecos association	3,637.6	4.9%
RI	Reakor-Tencee association	2,587.7	3.5%
So	Sotim fine sandy loam	3,808.0	5.1%
TfD	Tencee cobbly loam, 5 to 30 percent slopes	379.4	0.5%
Tg	Tencee-Upton complex	8,310.5	11.2%
TOF	Torriorthents, very steep	483.6	0.7%
UA	Upton-Atoka association	403.5	0.5%
<b>Subtotals for Soil Survey Area</b>		<b>44,079.1</b>	<b>59.4%</b>
<b>Totals for Area of Interest</b>		<b>74,211.8</b>	<b>100.0%</b>

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DP	Dev-Pima complex, 0 to 3 percent slopes	188.5	0.3%
EC	Ector stony loam, 0 to 9 percent slopes	5,528.4	7.4%
EE	Ector extremely rocky loam, 9 to 25 percent slopes	5,887.0	7.9%
ER	Ector-Reagan association, 0 to 9 percent slopes	1,497.0	2.0%
LA	Largo loam, 1 to 5 percent slopes	457.9	0.6%
LN	Largo-Stony land complex, 0 to 25 percent slopes	284.4	0.4%
PM	Pima silt loam, 0 to 1 percent slopes	1,884.7	2.5%

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Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	5,221.8	7.0%
RE	Reagan-Upton association, 0 to 9 percent slopes	2,604.4	3.5%
UG	Upton gravelly loam, 0 to 9 percent slopes	4,285.5	5.8%
UR	Upton-Reagan complex, 0 to 9 percent slopes	2,293.1	3.1%
<b>Subtotals for Soil Survey Area</b>		<b>30,132.7</b>	<b>40.6%</b>
<b>Totals for Area of Interest</b>		<b>74,211.8</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the

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development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Chaves County, New Mexico, Southern Part

### BP—Bigetty-Pecos association

#### Map Unit Setting

*National map unit symbol:* 1w6l  
*Elevation:* 2,150 to 5,500 feet  
*Mean annual precipitation:* 8 to 14 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 140 to 230 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Bigetty and similar soils:* 60 percent  
*Pecos and similar soils:* 20 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Bigetty

##### Setting

*Landform:* Flood plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium derived from sedimentary rock

##### Typical profile

*H1 - 0 to 11 inches:* loam  
*H2 - 11 to 60 inches:* silty clay loam

##### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* RareNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 7 percent  
*Gypsum, maximum content:* 10 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water capacity:* High (about 11.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 1  
*Land capability classification (nonirrigated):* 7c  
*Hydrologic Soil Group:* C  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

## Description of Pecos

### Setting

*Landform:* Flood plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium derived from sedimentary rock

### Typical profile

*H1 - 0 to 9 inches:* silty clay loam  
*H2 - 9 to 60 inches:* clay

### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Moderately well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* RareNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Gypsum, maximum content:* 25 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Moderate (about 8.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* 2s  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* D  
*Ecological site:* R042XC008NM - Draw  
*Hydric soil rating:* No

## Minor Components

### Dev

*Percent of map unit:* 7 percent  
*Ecological site:* R070DY154NM - Swale  
*Hydric soil rating:* No

### Reakor

*Percent of map unit:* 7 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Pecos nonsaline

*Percent of map unit:* 6 percent  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No



## **EcC—Ector-Rock outcrop complex, 0 to 9 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w6z  
*Elevation:* 3,200 to 5,800 feet  
*Mean annual precipitation:* 10 to 16 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Ector and similar soils:* 70 percent  
*Rock outcrop:* 15 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Ector**

#### **Setting**

*Landform:* Low hills, hillslopes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Crest, side slope, base slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

#### **Typical profile**

*H1 - 0 to 14 inches:* cobbly loam  
*H2 - 14 to 60 inches:* bedrock

#### **Properties and qualities**

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 4 to 20 inches to lithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high (0.06 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 60 percent  
*Gypsum, maximum content:* 10 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Very low (about 1.3 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

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*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: R070DY158NM - Very Shallow*  
*Hydric soil rating: No*

### Description of Rock Outcrop

#### Typical profile

*H1 - 0 to 60 inches: bedrock*

#### Properties and qualities

*Slope: 0 to 9 percent*

*Depth to restrictive feature: 0 inches to lithic bedrock*

*Runoff class: Medium*

*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*

#### Interpretive groups

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 8s*

*Hydric soil rating: No*

### Minor Components

#### Tencee

*Percent of map unit: 4 percent*

*Ecological site: R042XC025NM - Shallow*

*Hydric soil rating: No*

#### Reakor

*Percent of map unit: 4 percent*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

#### Pecos

*Percent of map unit: 3 percent*

*Ecological site: R070DY155NM - Draw*

*Hydric soil rating: No*

#### Bigetty

*Percent of map unit: 3 percent*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

#### Playa

*Percent of map unit: 1 percent*

*Landform: Flood-plain playas*

*Landform position (three-dimensional): Dip, talf*

*Down-slope shape: Concave*

*Across-slope shape: Concave*

*Ecological site: R042XC017NM - Bottomland*

*Hydric soil rating: Yes*

## **EcD—Ector-Rock outcrop complex, 9 to 30 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w70  
*Elevation:* 3,300 to 5,800 feet  
*Mean annual precipitation:* 10 to 14 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 190 to 215 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Ector and similar soils:* 60 percent  
*Rock outcrop:* 25 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Ector**

#### **Setting**

*Landform:* Low hills, hillslopes  
*Landform position (two-dimensional):* Footslope, shoulder, backslope  
*Landform position (three-dimensional):* Crest, side slope, base slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

#### **Typical profile**

*H1 - 0 to 14 inches:* cobbly loam  
*H2 - 14 to 60 inches:* bedrock

#### **Properties and qualities**

*Slope:* 9 to 30 percent  
*Depth to restrictive feature:* 4 to 20 inches to lithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high (0.06 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 60 percent  
*Gypsum, maximum content:* 7 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Very low (about 1.3 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified

## Custom Soil Resource Report

*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: R070DY151NM - Limestone Hills*  
*Hydric soil rating: No*

### Description of Rock Outcrop

#### Typical profile

*H1 - 0 to 60 inches: bedrock*

#### Properties and qualities

*Slope: 9 to 30 percent*

*Depth to restrictive feature: 0 inches to lithic bedrock*

*Runoff class: Very low*

*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*

#### Interpretive groups

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 8s*

*Hydric soil rating: No*

### Minor Components

#### Pecos

*Percent of map unit: 4 percent*

*Ecological site: R070DY155NM - Draw*

*Hydric soil rating: No*

#### Tencee

*Percent of map unit: 4 percent*

*Ecological site: R042XC025NM - Shallow*

*Hydric soil rating: No*

#### Reakor

*Percent of map unit: 4 percent*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

#### Lozier

*Percent of map unit: 3 percent*

*Ecological site: R042XC025NM - Shallow*

*Hydric soil rating: No*

## HSE—Holloman-Gypsum land complex, 30 to 50 percent slopes

### Map Unit Setting

*National map unit symbol: 1w78*

*Elevation: 3,300 to 4,500 feet*

*Mean annual precipitation: 10 to 14 inches*

*Mean annual air temperature: 59 to 65 degrees F*

## Custom Soil Resource Report

*Frost-free period:* 190 to 215 days

*Farmland classification:* Not prime farmland

### Map Unit Composition

*Holloman and similar soils:* 35 percent

*Gypsum land:* 30 percent

*Minor components:* 35 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Holloman

#### Setting

*Landform:* Valley floors, basin floors, plains

*Landform position (three-dimensional):* Riser, rise

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

#### Typical profile

*H1 - 0 to 8 inches:* loam

*H2 - 8 to 12 inches:* gypsiferous material

#### Properties and qualities

*Slope:* 30 to 50 percent

*Depth to restrictive feature:* 4 to 20 inches to paralithic bedrock

*Drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Gypsum, maximum content:* 60 percent

*Maximum salinity:* Slightly saline to strongly saline (4.0 to 16.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 4.0

*Available water capacity:* Very low (about 0.7 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* D

*Ecological site:* R042XC006NM - Gyp Upland

*Hydric soil rating:* No

### Description of Gypsum Land

#### Setting

*Landform:* Valley floors, basin floors, plains

*Landform position (three-dimensional):* Riser, rise

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

## Custom Soil Resource Report

### Typical profile

*H1 - 0 to 60 inches: gypsiferous material*

### Properties and qualities

*Slope: 30 to 50 percent*

*Depth to restrictive feature: 0 inches to paralithic bedrock*

*Runoff class: High*

*Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)*

*Calcium carbonate, maximum content: 20 percent*

*Gypsum, maximum content: 80 percent*

*Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)*

*Sodium adsorption ratio, maximum: 4.0*

### Interpretive groups

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 8s*

*Hydric soil rating: No*

### Minor Components

#### Pecos

*Percent of map unit: 9 percent*

*Ecological site: R070DY155NM - Draw*

*Hydric soil rating: No*

#### Reeves

*Percent of map unit: 9 percent*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

#### Russler

*Percent of map unit: 9 percent*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

#### Rock outcrop

*Percent of map unit: 8 percent*

*Hydric soil rating: No*

## Lt—Lozier-Tencee complex

### Map Unit Setting

*National map unit symbol: 1w7k*

*Elevation: 3,300 to 5,500 feet*

*Mean annual precipitation: 10 to 14 inches*

*Mean annual air temperature: 59 to 65 degrees F*

*Frost-free period: 140 to 215 days*

*Farmland classification: Not prime farmland*

### Map Unit Composition

*Lozier and similar soils:* 55 percent

*Tencee and similar soils:* 30 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Lozier

#### Setting

*Landform:* Low hills, hillslopes

*Landform position (two-dimensional):* Shoulder, backslope, footslope

*Landform position (three-dimensional):* Crest, side slope, base slope

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

#### Typical profile

*H1 - 0 to 13 inches:* very gravelly loam

*H2 - 13 to 17 inches:* bedrock

#### Properties and qualities

*Slope:* 1 to 9 percent

*Depth to restrictive feature:* 4 to 16 inches to lithic bedrock

*Drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high (0.06 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 70 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water capacity:* Very low (about 1.0 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* D

*Ecological site:* R042XC025NM - Shallow

*Hydric soil rating:* No

### Description of Tencee

#### Setting

*Landform:* Low hills, hillslopes

*Landform position (two-dimensional):* Shoulder, backslope, footslope

*Landform position (three-dimensional):* Crest, side slope, base slope

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

#### Typical profile

*H1 - 0 to 2 inches:* cobbly loam

## Custom Soil Resource Report

*H2 - 2 to 9 inches: very gravelly loam*  
*H3 - 9 to 13 inches: cemented material*

### Properties and qualities

*Slope: 1 to 9 percent*  
*Depth to restrictive feature: 7 to 20 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Medium*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 55 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water capacity: Very low (about 0.9 inches)*

### Interpretive groups

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: D*  
*Ecological site: R042XC025NM - Shallow*  
*Hydric soil rating: No*

### Minor Components

#### Reakor

*Percent of map unit: 3 percent*  
*Ecological site: R042XC007NM - Loamy*  
*Hydric soil rating: No*

#### Atoka

*Percent of map unit: 3 percent*  
*Ecological site: R042XC007NM - Loamy*  
*Hydric soil rating: No*

#### Dev

*Percent of map unit: 3 percent*  
*Ecological site: R070DY154NM - Swale*  
*Hydric soil rating: No*

#### Rock outcrop

*Percent of map unit: 3 percent*  
*Hydric soil rating: No*

#### Upton

*Percent of map unit: 3 percent*  
*Ecological site: R042XC025NM - Shallow*  
*Hydric soil rating: No*



## **PGB—Pecos silty clay loam, nonsaline, 0 to 3 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w7l

*Elevation:* 3,300 to 4,500 feet

*Mean annual precipitation:* 10 to 14 inches

*Mean annual air temperature:* 59 to 65 degrees F

*Frost-free period:* 190 to 215 days

*Farmland classification:* Farmland of statewide importance

### **Map Unit Composition**

*Pecos and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Pecos**

#### **Setting**

*Landform:* Flood plains

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Calcareous alluvium derived from sedimentary rock

#### **Typical profile**

*H1 - 0 to 9 inches:* silty clay loam

*H2 - 9 to 60 inches:* silty clay

#### **Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* RareNone

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Gypsum, maximum content:* 25 percent

*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 4.0

*Available water capacity:* Moderate (about 8.6 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 2s

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* D

*Ecological site:* R042XC017NM - Bottomland

## Custom Soil Resource Report

*Hydric soil rating:* No

### Minor Components

#### Reakor

*Percent of map unit:* 8 percent

*Ecological site:* R042XC007NM - Loamy

*Hydric soil rating:* No

#### Bigetty

*Percent of map unit:* 7 percent

*Ecological site:* R042XC007NM - Loamy

*Hydric soil rating:* No

## PH—Pecos-Dev association

### Map Unit Setting

*National map unit symbol:* 1w7m

*Elevation:* 3,200 to 5,800 feet

*Mean annual precipitation:* 10 to 16 inches

*Mean annual air temperature:* 59 to 65 degrees F

*Frost-free period:* 140 to 220 days

*Farmland classification:* Not prime farmland

### Map Unit Composition

*Pecos and similar soils:* 45 percent

*Dev and similar soils:* 40 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Pecos

#### Setting

*Landform:* Flood plains

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Calcareous alluvium derived from sedimentary rock

#### Typical profile

*H1 - 0 to 9 inches:* silty clay loam

*H2 - 9 to 60 inches:* silty clay

#### Properties and qualities

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

## Custom Soil Resource Report

*Frequency of flooding:* RareNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Gypsum, maximum content:* 25 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Moderate (about 8.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* 2s  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* D  
*Ecological site:* R070DY155NM - Draw  
*Hydric soil rating:* No

### Description of Dev

#### Setting

*Landform:* Swales, flood plains, streams  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium derived from sedimentary rock

#### Typical profile

*H1 - 0 to 22 inches:* gravelly loam  
*H2 - 22 to 60 inches:* very gravelly clay loam

#### Properties and qualities

*Slope:* 0 to 5 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* FrequentNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 70 percent  
*Gypsum, maximum content:* 10 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water capacity:* Low (about 4.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6w  
*Hydrologic Soil Group:* A  
*Ecological site:* R070DY154NM - Swale  
*Hydric soil rating:* No

### Minor Components

#### Bigetty

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

## Custom Soil Resource Report

### **Ector**

*Percent of map unit:* 3 percent  
*Ecological site:* R070DY158NM - Very Shallow  
*Hydric soil rating:* No

### **Playa**

*Percent of map unit:* 3 percent  
*Landform:* Flood-plain playas  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* Yes

### **Tencee**

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

### **Reakor**

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

## **RF—Reakor loam, 0 to 3 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w7w  
*Elevation:* 3,200 to 4,500 feet  
*Mean annual precipitation:* 10 to 16 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Reakor and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Reakor**

#### **Setting**

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Convex, linear  
*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

## Custom Soil Resource Report

### Typical profile

*H1 - 0 to 17 inches: loam*

*H2 - 17 to 65 inches: loam*

### Properties and qualities

*Slope: 0 to 3 percent*

*Depth to restrictive feature: More than 80 inches*

*Drainage class: Well drained*

*Runoff class: Medium*

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)*

*Depth to water table: More than 80 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 30 percent*

*Gypsum, maximum content: 9 percent*

*Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)*

*Sodium adsorption ratio, maximum: 2.0*

*Available water capacity: High (about 11.2 inches)*

### Interpretive groups

*Land capability classification (irrigated): 2e*

*Land capability classification (nonirrigated): 7e*

*Hydrologic Soil Group: C*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

### Minor Components

#### Atoka

*Percent of map unit: 5 percent*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

#### Upton

*Percent of map unit: 5 percent*

*Ecological site: R042XC025NM - Shallow*

*Hydric soil rating: No*

#### Pecos

*Percent of map unit: 4 percent*

*Ecological site: R042XC008NM - Draw*

*Hydric soil rating: No*

#### Playa

*Percent of map unit: 1 percent*

*Landform: Flood-plain playas*

*Landform position (three-dimensional): Dip, talf*

*Down-slope shape: Concave*

*Across-slope shape: Concave*

*Ecological site: R042XC017NM - Bottomland*

*Hydric soil rating: Yes*

## **RH—Reakor-Pecos association**

### **Map Unit Setting**

*National map unit symbol:* 1w7x  
*Elevation:* 3,200 to 5,500 feet  
*Mean annual precipitation:* 10 to 16 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 140 to 220 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Reakor and similar soils:* 55 percent  
*Pecos and similar soils:* 35 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Reakor**

#### **Setting**

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Convex, linear  
*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

#### **Typical profile**

*H1 - 0 to 17 inches:* loam  
*H2 - 17 to 65 inches:* loam

#### **Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 35 percent  
*Gypsum, maximum content:* 6 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* High (about 11.2 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* C

## Custom Soil Resource Report

*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Description of Pecos

#### Setting

*Landform:* Flood plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium derived from sedimentary rock

#### Typical profile

*H1 - 0 to 9 inches:* silty clay loam  
*H2 - 9 to 60 inches:* clay

#### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Moderately well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* RareNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Gypsum, maximum content:* 25 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Moderate (about 8.6 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 2s  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* D  
*Ecological site:* R042XC008NM - Draw  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 2 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Bigetty

*Percent of map unit:* 2 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Dev

*Percent of map unit:* 2 percent  
*Ecological site:* R070DY154NM - Swale  
*Hydric soil rating:* No

#### Tencee

*Percent of map unit:* 2 percent

## Custom Soil Resource Report

*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

### **Playa**

*Percent of map unit:* 2 percent  
*Landform:* Flood-plain playas  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* Yes

## **RI—Reakor-Tencee association**

### **Map Unit Setting**

*National map unit symbol:* 1w84  
*Elevation:* 3,300 to 4,500 feet  
*Mean annual precipitation:* 10 to 14 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 190 to 215 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Reakor and similar soils:* 55 percent  
*Tencee and similar soils:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Reakor**

#### **Setting**

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Convex, linear  
*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

#### **Typical profile**

*H1 - 0 to 17 inches:* loam  
*H2 - 17 to 65 inches:* clay loam

#### **Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches



## Custom Soil Resource Report

*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 30 percent  
*Gypsum, maximum content:* 9 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* High (about 11.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* C  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Description of Tencee

#### Setting

*Landform:* Low hills, hillslopes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Crest, side slope, base slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

#### Typical profile

*H1 - 0 to 2 inches:* gravelly loam  
*H2 - 2 to 9 inches:* very gravelly loam  
*H3 - 9 to 13 inches:* cemented material

#### Properties and qualities

*Slope:* 1 to 5 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately high (0.00 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 55 percent  
*Gypsum, maximum content:* 5 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Very low (about 0.9 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Upton

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

#### Bigetty

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Pecos

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC008NM - Draw  
*Hydric soil rating:* No

## So—Sotim fine sandy loam

### Map Unit Setting

*National map unit symbol:* 1w8c  
*Elevation:* 3,200 to 4,500 feet  
*Mean annual precipitation:* 10 to 14 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 190 to 220 days  
*Farmland classification:* Farmland of statewide importance

### Map Unit Composition

*Sotim and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Sotim

#### Setting

*Landform:* Alluvial fans, plains  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear, convex  
*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

#### Typical profile

*H1 - 0 to 7 inches:* fine sandy loam  
*H2 - 7 to 70 inches:* clay loam

## Custom Soil Resource Report

### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 35 percent  
*Gypsum, maximum content:* 9 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water capacity:* High (about 10.5 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* C  
*Ecological site:* R042XC004NM - Sandy  
*Hydric soil rating:* No

### Minor Components

#### Gypsum land

*Percent of map unit:* 4 percent  
*Hydric soil rating:* No

#### Russler

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Tencee

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

#### Reeves

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Ravine

*Percent of map unit:* 1 percent  
*Landform:* Ravines, perennial streams, arroyos, streams  
*Landform position (three-dimensional):* Talf, dip  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* R042XC033NM - Salty Bottomland  
*Hydric soil rating:* Yes

## **TfD—Tencee cobbly loam, 5 to 30 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w8h  
*Elevation:* 3,300 to 4,500 feet  
*Mean annual precipitation:* 8 to 14 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 190 to 220 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Tencee and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Tencee**

#### **Setting**

*Landform:* Low hills, hillslopes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Crest, side slope, base slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

#### **Typical profile**

*H1 - 0 to 2 inches:* cobbly loam  
*H2 - 2 to 9 inches:* very gravelly loam  
*H3 - 9 to 13 inches:* cemented material

#### **Properties and qualities**

*Slope:* 5 to 30 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 85 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 3.0  
*Available water capacity:* Very low (about 0.9 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D

## Custom Soil Resource Report

*Ecological site:* R070DY152NM - Shallow  
*Hydric soil rating:* No

### Minor Components

#### **Pecos**

*Percent of map unit:* 4 percent  
*Ecological site:* R070DY155NM - Draw  
*Hydric soil rating:* No

#### **Tencee gravelly**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

#### **Upton**

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

#### **Atoka**

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

## Tg—Tencee-Upton complex

### Map Unit Setting

*National map unit symbol:* 1w8j  
*Elevation:* 3,200 to 4,500 feet  
*Mean annual precipitation:* 10 to 16 inches  
*Mean annual air temperature:* 59 to 65 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Tencee and similar soils:* 55 percent  
*Upton and similar soils:* 35 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Tencee

#### **Setting**

*Landform:* Low hills, hillslopes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Crest, side slope, base slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

## Custom Soil Resource Report

### Typical profile

*H1 - 0 to 2 inches:* gravelly loam  
*H2 - 2 to 9 inches:* very gravelly loam  
*H3 - 9 to 13 inches:* cemented material

### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 45 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Very low (about 0.9 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

## Description of Upton

### Setting

*Landform:* Fans, terraces  
*Landform position (three-dimensional):* Riser  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous alluvium and/or eolian deposits derived from sedimentary rock

### Typical profile

*H1 - 0 to 13 inches:* gravelly loam  
*H2 - 13 to 22 inches:* gravelly loam  
*H3 - 22 to 30 inches:* cemented  
*H4 - 30 to 60 inches:* gravelly loam

### Properties and qualities

*Slope:* 0 to 5 percent  
*Depth to restrictive feature:* 7 to 24 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0

## Custom Soil Resource Report

*Available water capacity:* Very low (about 2.4 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* C

*Ecological site:* R042XC025NM - Shallow

*Hydric soil rating:* No

### **Minor Components**

#### **Reakor**

*Percent of map unit:* 3 percent

*Ecological site:* R042XC007NM - Loamy

*Hydric soil rating:* No

#### **Atoka**

*Percent of map unit:* 3 percent

*Ecological site:* R042XC007NM - Loamy

*Hydric soil rating:* No

#### **Pecos**

*Percent of map unit:* 3 percent

*Ecological site:* R042XC033NM - Salty Bottomland

*Hydric soil rating:* No

#### **Playa**

*Percent of map unit:* 1 percent

*Landform:* Flood-plain playas

*Landform position (three-dimensional):* Dip, talf

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Ecological site:* R042XC017NM - Bottomland

*Hydric soil rating:* Yes

## **TOF—Torriorthents, very steep**

### **Map Unit Setting**

*National map unit symbol:* 1w8d

*Elevation:* 2,840 to 4,500 feet

*Mean annual precipitation:* 8 to 13 inches

*Mean annual air temperature:* 59 to 64 degrees F

*Frost-free period:* 190 to 220 days

*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Torriorthents:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Torriorthents

### Setting

*Landform:* Scarps, escarpments

*Landform position (three-dimensional):* Free face

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Mixed alluvium derived from igneous, metamorphic and sedimentary rock

### Typical profile

*H1 - 0 to 6 inches:* gravelly loam

*H2 - 6 to 20 inches:* gravelly sandy clay loam

*H3 - 20 to 24 inches:* bedrock

### Properties and qualities

*Slope:* 30 to 80 percent

*Depth to restrictive feature:* 10 to 60 inches to lithic bedrock

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Calcium carbonate, maximum content:* 7 percent

*Gypsum, maximum content:* 3 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water capacity:* Very low (about 2.5 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydric soil rating:* No

## Minor Components

### Ima

*Percent of map unit:* 8 percent

*Ecological site:* R070BY055NM - Sandy Plains

*Hydric soil rating:* No

### Rock outcrop

*Percent of map unit:* 7 percent

*Hydric soil rating:* No

## UA—Upton-Atoka association

### Map Unit Setting

*National map unit symbol:* 1w8k

*Elevation:* 3,200 to 4,500 feet

*Mean annual precipitation:* 10 to 16 inches

*Mean annual air temperature:* 59 to 65 degrees F



## Custom Soil Resource Report

*Frost-free period:* 180 to 220 days

*Farmland classification:* Not prime farmland

### Map Unit Composition

*Upton and similar soils:* 55 percent

*Atoka and similar soils:* 30 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Upton

#### Setting

*Landform:* Plains, low hills, hillslopes

*Landform position (two-dimensional):* Shoulder, backslope, footslope

*Landform position (three-dimensional):* Crest, side slope, base slope, rise

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

#### Typical profile

*H1 - 0 to 13 inches:* gravelly loam

*H2 - 13 to 22 inches:* gravelly loam

*H3 - 22 to 30 inches:* cemented

*H4 - 30 to 60 inches:* gravelly loam

#### Properties and qualities

*Slope:* 0 to 5 percent

*Depth to restrictive feature:* 7 to 24 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 75 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water capacity:* Very low (about 2.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* C

*Ecological site:* R042XC025NM - Shallow

*Hydric soil rating:* No

### Description of Atoka

#### Setting

*Landform:* Alluvial fans, plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear, convex

*Across-slope shape:* Linear, convex

*Parent material:* Mixed alluvium and/or eolian deposits derived from sedimentary rock

## Custom Soil Resource Report

### Typical profile

*H1 - 0 to 12 inches:* loam  
*H2 - 12 to 28 inches:* clay loam  
*H3 - 28 to 32 inches:* cemented material

### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 20 to 40 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 7 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Low (about 5.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* C  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Minor Components

#### Bigetty

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Pecos

*Percent of map unit:* 5 percent  
*Ecological site:* R070DY155NM - Draw  
*Hydric soil rating:* No

#### Reakor

*Percent of map unit:* 4 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Playa

*Percent of map unit:* 1 percent  
*Landform:* Flood-plain playas  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* Yes

## Custom Soil Resource Report

## Eddy Area, New Mexico

### DP—Dev-Pima complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w48

*Elevation:* 3,200 to 4,600 feet

*Mean annual precipitation:* 10 to 16 inches

*Mean annual air temperature:* 60 to 64 degrees F

*Frost-free period:* 195 to 217 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Dev and similar soils:* 55 percent

*Pima and similar soils:* 30 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Dev

##### Setting

*Landform:* Alluvial fans, flood plains

*Landform position (three-dimensional):* Rise, talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed alluvium

##### Typical profile

*H1 - 0 to 15 inches:* very gravelly loam

*H2 - 15 to 60 inches:* very gravelly loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* FrequentNone

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 70 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water capacity:* Low (about 4.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6w

*Hydrologic Soil Group:* A

*Ecological site:* R042XC017NM - Bottomland

*Hydric soil rating:* No

## Description of Pima

### Setting

*Landform:* Alluvial fans, alluvial flats, flood plains  
*Landform position (three-dimensional):* Rise, tal  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear, convex  
*Parent material:* Alluvium

### Typical profile

*H1 - 0 to 3 inches:* silt loam  
*H2 - 3 to 60 inches:* silty clay loam

### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* RareNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* High (about 11.9 inches)

### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 7c  
*Hydrologic Soil Group:* C  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

## Minor Components

### Unnamed soils

*Percent of map unit:* 15 percent  
*Hydric soil rating:* No

## EC—Ector stony loam, 0 to 9 percent slopes

### Map Unit Setting

*National map unit symbol:* 1w4b  
*Elevation:* 3,300 to 4,800 feet  
*Mean annual precipitation:* 10 to 18 inches  
*Mean annual air temperature:* 58 to 62 degrees F  
*Frost-free period:* 195 to 210 days

## Custom Soil Resource Report

*Farmland classification:* Not prime farmland

### Map Unit Composition

*Ector and similar soils:* 100 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Ector

#### Setting

*Landform:* Ridges, hills

*Landform position (two-dimensional):* Backslope, footslope, shoulder, toeslope

*Landform position (three-dimensional):* Side slope, crest, nose slope, head slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Residuum weathered from limestone

#### Typical profile

*H1 - 0 to 6 inches:* very cobbly loam

*H2 - 6 to 60 inches:* bedrock

#### Properties and qualities

*Slope:* 0 to 9 percent

*Depth to restrictive feature:* 4 to 20 inches to lithic bedrock

*Drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high  
(0.06 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 60 percent

*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water capacity:* Very low (about 0.5 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* D

*Ecological site:* R070DY158NM - Very Shallow

*Hydric soil rating:* No

## EE—Ector extremely rocky loam, 9 to 25 percent slopes

### Map Unit Setting

*National map unit symbol:* 1w4c

*Elevation:* 1,600 to 4,800 feet

*Mean annual precipitation:* 10 to 18 inches

*Mean annual air temperature:* 58 to 66 degrees F

*Frost-free period:* 195 to 240 days

*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Ector and similar soils: 98 percent*

*Minor components: 2 percent*

*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Ector**

**Setting**

*Landform: Hills, ridges*

*Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope*

*Landform position (three-dimensional): Crest, nose slope, side slope, head slope*

*Down-slope shape: Convex*

*Across-slope shape: Linear*

*Parent material: Residuum weathered from limestone*

**Typical profile**

*H1 - 0 to 6 inches: very cobbly loam*

*H2 - 6 to 60 inches: bedrock*

**Properties and qualities**

*Slope: 9 to 25 percent*

*Depth to restrictive feature: 4 to 20 inches to lithic bedrock*

*Drainage class: Well drained*

*Runoff class: Medium*

*Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high  
(0.06 to 2.00 in/hr)*

*Depth to water table: More than 80 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 60 percent*

*Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)*

*Sodium adsorption ratio, maximum: 1.0*

*Available water capacity: Very low (about 0.4 inches)*

**Interpretive groups**

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 7s*

*Hydrologic Soil Group: D*

*Ecological site: R070DY151NM - Limestone Hills*

*Hydric soil rating: No*

**Minor Components**

**Rock outcrop**

*Percent of map unit: 1 percent*

*Hydric soil rating: No*

**Ector**

*Percent of map unit: 1 percent*

*Ecological site: R070DY158NM - Very Shallow*

*Hydric soil rating: No*

## **ER—Ector-Reagan association, 0 to 9 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w4d  
*Elevation:* 1,100 to 5,400 feet  
*Mean annual precipitation:* 6 to 18 inches  
*Mean annual air temperature:* 58 to 70 degrees F  
*Frost-free period:* 180 to 240 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Ector and similar soils:* 65 percent  
*Reagan and similar soils:* 25 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Ector**

#### **Setting**

*Landform:* Hills, ridges  
*Landform position (two-dimensional):* Backslope, footslope, shoulder, toeslope  
*Landform position (three-dimensional):* Crest, nose slope, side slope, head slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from limestone

#### **Typical profile**

*H1 - 0 to 6 inches:* very cobbly loam  
*H2 - 6 to 60 inches:* bedrock

#### **Properties and qualities**

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 4 to 20 inches to lithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high  
(0.06 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 60 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 0.5 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R070DY158NM - Very Shallow



## Custom Soil Resource Report

*Hydric soil rating:* No

### Description of Reagan

#### Setting

*Landform:* Alluvial fans, fan remnants  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear  
*Parent material:* Alluvium and/or eolian deposits

#### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 32 inches:* loam  
*H3 - 32 to 60 inches:* clay loam

#### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 50 percent  
*Gypsum, maximum content:* 20 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 15.0  
*Available water capacity:* Moderate (about 8.2 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Minor Components

#### Ector

*Percent of map unit:* 4 percent  
*Ecological site:* R070DY158NM - Very Shallow  
*Hydric soil rating:* No

#### Upton

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

#### Pima

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

## LA—Largo loam, 1 to 5 percent slopes

### Map Unit Setting

*National map unit symbol:* 1w4y  
*Elevation:* 2,000 to 5,700 feet  
*Mean annual precipitation:* 6 to 14 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 260 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Largo and similar soils:* 98 percent  
*Minor components:* 2 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Largo

#### Setting

*Landform:* Alluvial fans, plains  
*Landform position (three-dimensional):* Rise, talf  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear  
*Parent material:* Calcareous alluvium

#### Typical profile

*H1 - 0 to 4 inches:* loam  
*H2 - 4 to 47 inches:* silt loam  
*H3 - 47 to 65 inches:* loam

#### Properties and qualities

*Slope:* 1 to 5 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* High (about 10.0 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC007NM - Loamy

*Hydric soil rating:* No

**Minor Components**

**Largo**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

**Pajarito**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**LN—Largo-Stony land complex, 0 to 25 percent slopes**

**Map Unit Setting**

*National map unit symbol:* 1w50  
*Elevation:* 2,000 to 5,700 feet  
*Mean annual precipitation:* 6 to 14 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 260 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Largo and similar soils:* 41 percent  
*Stony land:* 40 percent  
*Minor components:* 19 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Largo**

**Setting**

*Landform:* Alluvial fans, plains  
*Landform position (three-dimensional):* Rise, tal  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear  
*Parent material:* Calcareous alluvium

**Typical profile**

*H1 - 0 to 4 inches:* loam  
*H2 - 4 to 47 inches:* silt loam  
*H3 - 47 to 65 inches:* loam

**Properties and qualities**

*Slope:* 1 to 5 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)

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*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* High (about 10.0 inches)

### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Minor Components

#### Simona

*Percent of map unit:* 7 percent  
*Ecological site:* R042XC002NM - Shallow Sandy  
*Hydric soil rating:* No

#### Pajarito

*Percent of map unit:* 6 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

#### Largo

*Percent of map unit:* 6 percent  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

## PM—Pima silt loam, 0 to 1 percent slopes

### Map Unit Setting

*National map unit symbol:* 1w56  
*Elevation:* 600 to 4,200 feet  
*Mean annual precipitation:* 8 to 25 inches  
*Mean annual air temperature:* 60 to 70 degrees F  
*Frost-free period:* 195 to 290 days  
*Farmland classification:* Farmland of statewide importance

### Map Unit Composition

*Pima and similar soils:* 98 percent  
*Minor components:* 2 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Pima

#### Setting

*Landform:* Alluvial fans, alluvial flats, flood plains  
*Landform position (three-dimensional):* Rise, tal

## Custom Soil Resource Report

*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear, convex  
*Parent material:* Alluvium

### Typical profile

*H1 - 0 to 3 inches:* silt loam  
*H2 - 3 to 60 inches:* silty clay loam

### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* RareNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* High (about 11.9 inches)

### Interpretive groups

*Land capability classification (irrigated):* 1  
*Land capability classification (nonirrigated):* 7c  
*Hydrologic Soil Group:* C  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

### Minor Components

#### Dev

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

#### Reagan

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

## RA—Reagan loam, 0 to 3 percent slopes

### Map Unit Setting

*National map unit symbol:* 1w5c  
*Elevation:* 1,100 to 4,400 feet  
*Mean annual precipitation:* 7 to 14 inches  
*Mean annual air temperature:* 60 to 70 degrees F  
*Frost-free period:* 200 to 240 days  
*Farmland classification:* Farmland of statewide importance

**Map Unit Composition**

*Reagan and similar soils: 98 percent*

*Minor components: 2 percent*

*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Reagan**

**Setting**

*Landform: Alluvial fans, fan remnants*

*Landform position (three-dimensional): Rise*

*Down-slope shape: Linear, convex*

*Across-slope shape: Linear*

*Parent material: Alluvium and/or eolian deposits*

**Typical profile**

*H1 - 0 to 8 inches: loam*

*H2 - 8 to 60 inches: loam*

**Properties and qualities**

*Slope: 0 to 3 percent*

*Depth to restrictive feature: More than 80 inches*

*Drainage class: Well drained*

*Runoff class: Low*

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high  
(0.60 to 2.00 in/hr)*

*Depth to water table: More than 80 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 40 percent*

*Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)*

*Sodium adsorption ratio, maximum: 1.0*

*Available water capacity: Moderate (about 8.2 inches)*

**Interpretive groups**

*Land capability classification (irrigated): 2e*

*Land capability classification (nonirrigated): 6e*

*Hydrologic Soil Group: B*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

**Minor Components**

**Upton**

*Percent of map unit: 1 percent*

*Ecological site: R042XC025NM - Shallow*

*Hydric soil rating: No*

**Atoka**

*Percent of map unit: 1 percent*

*Ecological site: R042XC007NM - Loamy*

*Hydric soil rating: No*

## **RE—Reagan-Upton association, 0 to 9 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w5d  
*Elevation:* 1,100 to 5,400 feet  
*Mean annual precipitation:* 6 to 14 inches  
*Mean annual air temperature:* 60 to 64 degrees F  
*Frost-free period:* 180 to 240 days  
*Farmland classification:* Farmland of statewide importance

### **Map Unit Composition**

*Reagan and similar soils:* 70 percent  
*Upton and similar soils:* 25 percent  
*Minor components:* 5 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Reagan**

#### **Setting**

*Landform:* Alluvial fans, fan remnants  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear  
*Parent material:* Alluvium and/or eolian deposits

#### **Typical profile**

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 60 inches:* loam

#### **Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Moderate (about 8.2 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* R070DY153NM - Loamy  
*Hydric soil rating:* No

## Description of Upton

### Setting

*Landform:* Fans, ridges  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

### Typical profile

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high  
(0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 1.4 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R070DY159NM - Shallow Loamy  
*Hydric soil rating:* No

## Minor Components

### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No



## **UG—Upton gravelly loam, 0 to 9 percent slopes**

### **Map Unit Setting**

*National map unit symbol:* 1w64  
*Elevation:* 1,100 to 4,400 feet  
*Mean annual precipitation:* 7 to 15 inches  
*Mean annual air temperature:* 60 to 70 degrees F  
*Frost-free period:* 200 to 240 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Upton and similar soils:* 96 percent  
*Minor components:* 4 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Upton**

#### **Setting**

*Landform:* Fans, ridges  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

#### **Typical profile**

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

#### **Properties and qualities**

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high  
(0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 1.4 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D

## Custom Soil Resource Report

*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Atoka

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Upton

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

#### Reagan

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

## UR—Upton-Reagan complex, 0 to 9 percent slopes

### Map Unit Setting

*National map unit symbol:* 1w65  
*Elevation:* 1,100 to 5,400 feet  
*Mean annual precipitation:* 6 to 15 inches  
*Mean annual air temperature:* 60 to 70 degrees F  
*Frost-free period:* 180 to 240 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Upton and similar soils:* 55 percent  
*Reagan and similar soils:* 35 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Upton

#### Setting

*Landform:* Fans, ridges  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

#### Typical profile

*H1 - 0 to 9 inches:* gravelly loam

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*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high  
(0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 1.4 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R042XC025NM - Shallow  
*Hydric soil rating:* No

## Description of Reagan

### Setting

*Landform:* Alluvial fans, fan remnants  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear  
*Parent material:* Alluvium and/or eolian deposits

### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 60 inches:* loam

### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Moderate (about 8.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 6e

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*Hydrologic Soil Group:* B  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### **Minor Components**

#### **Pima**

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC017NM - Bottomland  
*Hydric soil rating:* No

#### **Reagan**

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

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