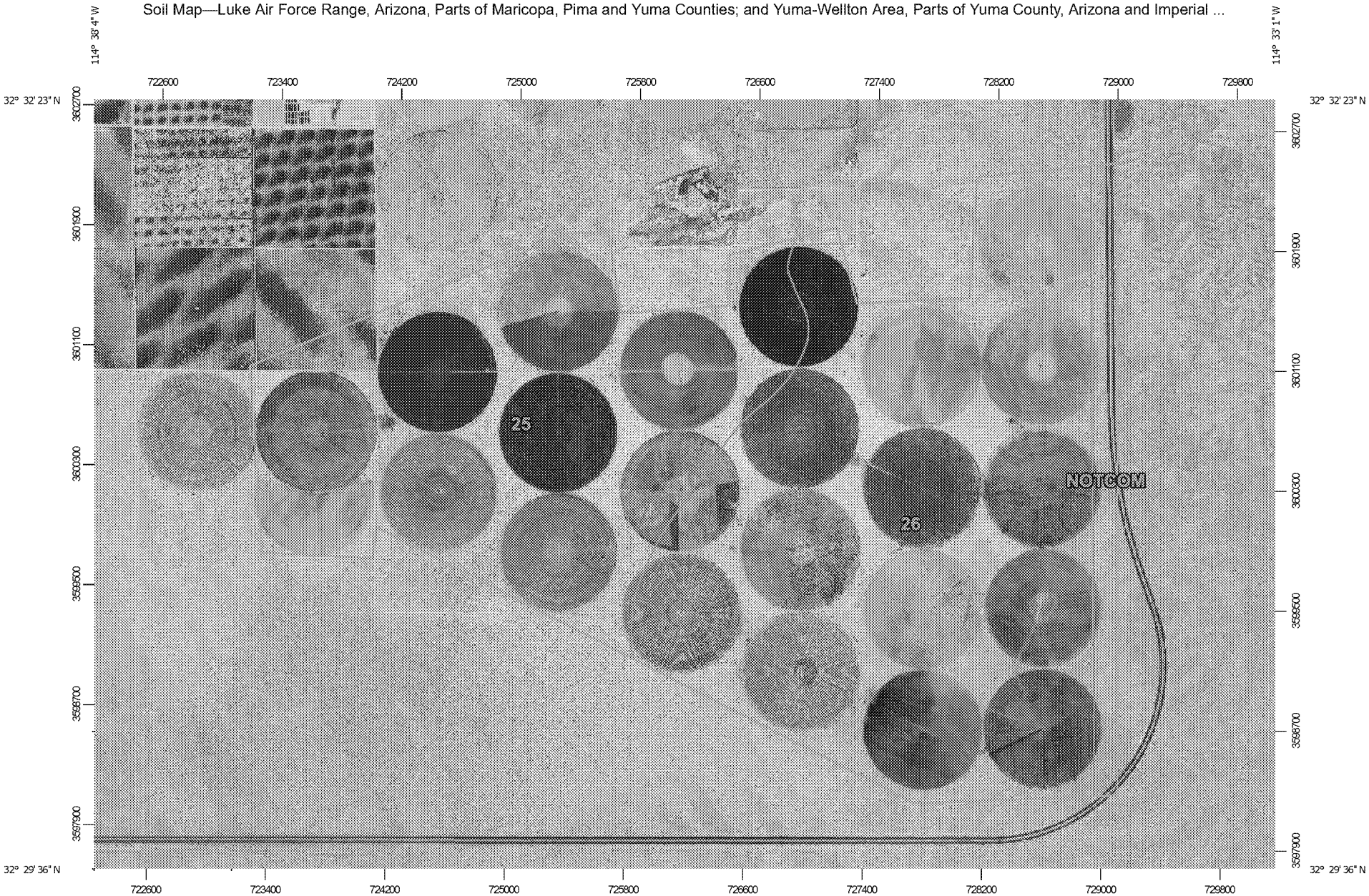

Map Scale: 1:36,200 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 500 1000 2000 3000

Feet: 0 1500 3000 6000 9000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N 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 1:24,000 to 1:125,000.

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: Luke Air Force Range, Arizona, Parts of Maricopa, Pima and Yuma Counties
Survey Area Data: Version 14, Sep 16, 2019

Soil Survey Area: Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California
Survey Area Data: Version 15, Sep 16, 2019

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: Feb 20, 2015—Nov 8, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

ED_005676_00000144-00002

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
NOTCOM	No Digital Data Available	173.0	4.4%
Subtotals for Soil Survey Area		**173.0**	**4.4%**
Totals for Area of Interest		**3,954.0**	**100.0%**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
25	Rositas sand	1,545.1	39.1%
26	Rositas-Ligurta complex	2,235.9	56.5%
Subtotals for Soil Survey Area		**3,781.0**	**95.6%**
Totals for Area of Interest		**3,954.0**	**100.0%**

ED_005676_00000144-00003

Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California

26—Rositas-Ligurta complex

Map Unit Setting

National map unit symbol: 1sfj
Elevation: 200 to 400 feet
Mean annual precipitation: 5 to 10 inches
Mean annual air temperature: 72 to 76 degrees F
Frost-free period: 250 to 325 days
Farmland classification: Not prime farmland

Map Unit Composition

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

Description of Rositas

Setting

Landform: Terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed eolian sands

Typical profile

A - 0 to 5 inches: sand
C - 5 to 60 inches: sand

Properties and qualities

Slope: 0 to 20 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 13.0
Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7s

ED_005676_00000144-00004

Hydrologic Soil Group: A
Ecological site: Deep Sand 3-7" p.z. (R040XD423AZ)
Hydric soil rating: No

Description of Ligurta

Setting

Landform: Dunes
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium

Typical profile

A - 0 to 2 inches: very gravelly loam
Btkn - 2 to 60 inches: gravelly clay loam

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 25 percent
Salinity, maximum in profile: Strongly saline (16.0 to 32.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 45.0
Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Unnamed soils

Percent of map unit: 15 percent

ED_005676_00000144-00005

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luke Air Force Range, Arizona, Parts of Maricopa, Pima and Yuma Counties
Survey Area Data: Version 14, Sep 16, 2019

Soil Survey Area: Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California
Survey Area Data: Version 15, Sep 16, 2019

ED_005676_00000144-00006

Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California

25—Rositas sand

Map Unit Setting

National map unit symbol: 1sfh
Elevation: 80 to 700 feet
Mean annual precipitation: 5 to 10 inches
Mean annual air temperature: 72 to 76 degrees F
Frost-free period: 250 to 325 days
Farmland classification: Farmland of unique importance

Map Unit Composition

Rositas and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rositas

Setting

Landform: Alluvial fans, dunes, terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed eolian sands

Typical profile

A - 0 to 5 inches: sand
C - 5 to 60 inches: sand

Properties and qualities

Slope: 2 to 15 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 13.0
Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: Deep Sand 3-7" p.z. (R040XD423AZ)

ED_005676_00000144-00007

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luke Air Force Range, Arizona, Parts of Maricopa, Pima and Yuma Counties
Survey Area Data: Version 14, Sep 16, 2019

Soil Survey Area: Yuma-Wellton Area, Parts of Yuma County, Arizona and Imperial County, California
Survey Area Data: Version 15, Sep 16, 2019

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