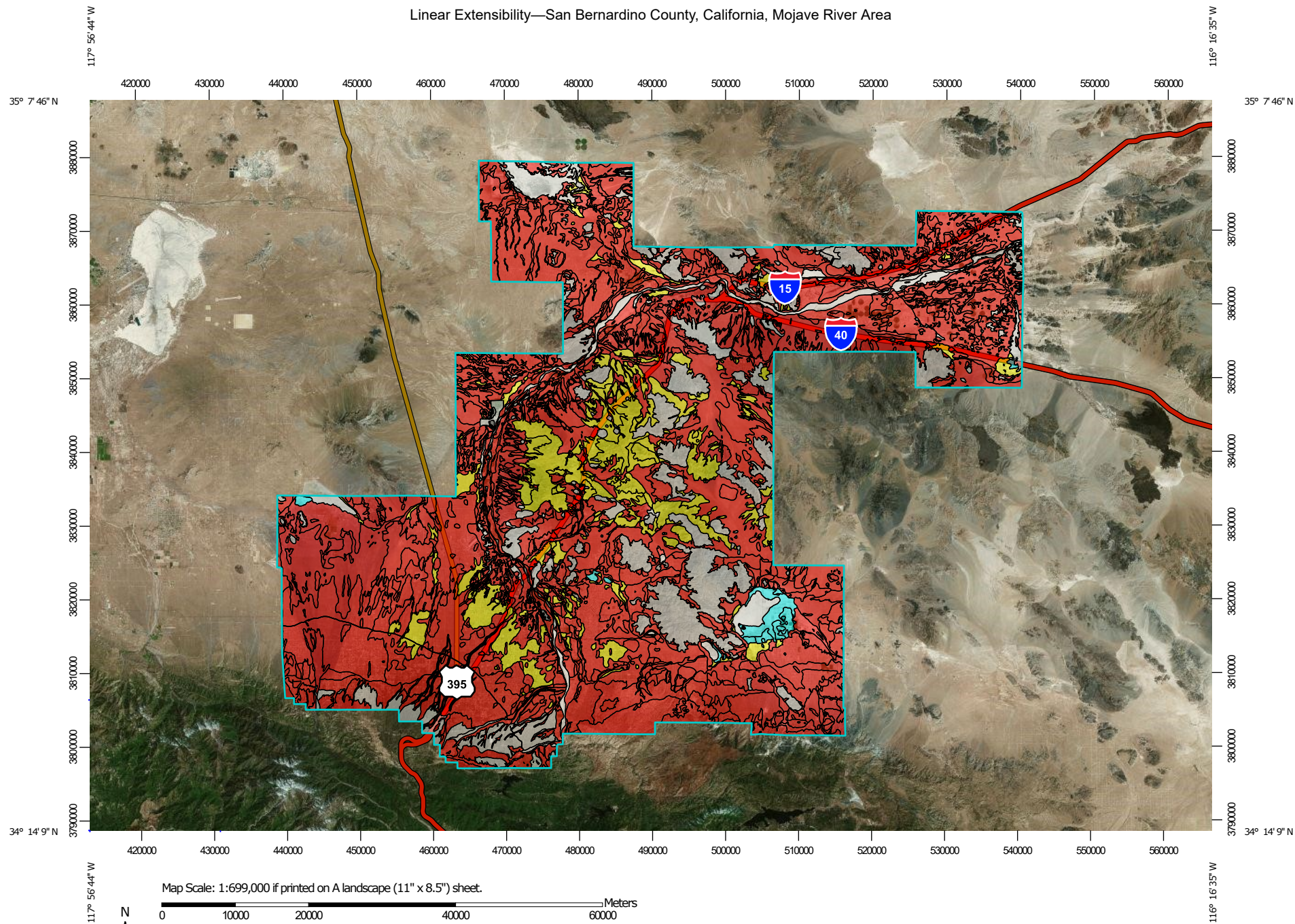
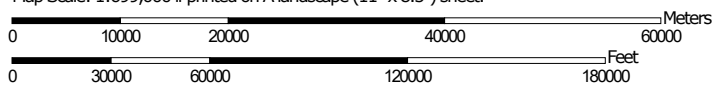


Linear Extensibility—San Bernardino County, California, Mojave River Area



Map Scale: 1:699,000 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

1/30/2023
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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 Low (0 - 3)
 Moderate (3 - 6)
 High (6 - 9)
 Very High (9 - 30)
 Not rated or not available

Soil Rating Lines

 Low (0 - 3)
 Moderate (3 - 6)
 High (6 - 9)
 Very High (9 - 30)
 Not rated or not available

Soil Rating Points

 Low (0 - 3)
 Moderate (3 - 6)
 High (6 - 9)
 Very High (9 - 30)
 Not rated or not available

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 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: San Bernardino County, California, Mojave River Area
 Survey Area Data: Version 14, Sep 1, 2022

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

Linear Extensibility

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
100	ARIZO GRAVELLY LOAMY SAND, 2 TO 9 PERCENT SLOPES	1.5	9,059.6	0.8%
101	ARRASTRE-ROCK OUTCROP COMPLEX, 30 TO 50 PERCENT SLOPES*	1.5	9,823.5	0.9%
102	AVAWATZ-OAK GLEN ASSOCIATION, GENTLY SLOPING*	1.5	9,729.4	0.9%
103	BADLAND		2,702.9	0.2%
104	BOUSIC CLAY	7.5	7,135.7	0.6%
105	BRYMAN LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	2.5	33,768.4	3.0%
106	BRYMAN LOAMY FINE SAND, 2 TO 5 PERCENT SLOPES	3.2	26,397.6	2.3%
107	BRYMAN LOAMY FINE SAND, 5 TO 9 PERCENT SLOPES	3.0	9,985.1	0.9%
108	BRYMAN LOAMY FINE SAND, 9 TO 15 PERCENT SLOPES	3.0	3,475.5	0.3%
109	BRYMAN SANDY CLAY LOAM, 0 TO 2 PERCENT SLOPES	3.7	442.8	0.0%
110	BRYMAN-CAJON ASSOCIATION, ROLLING*	2.8	6,666.7	0.6%
111	BULL TRAIL-TYPIC XERORTHENTS ASSOCIATION, MODERATELY STEEP*	2.3	7,833.3	0.7%
112	CAJON SAND, 0 TO 2 PERCENT SLOPES	1.5	70,914.3	6.3%
113	CAJON SAND, 2 TO 9 PERCENT SLOPES	1.5	124,299.6	11.0%
114	CAJON SAND, 9 TO 15 PERCENT SLOPES	1.5	6,721.0	0.6%
115	CAJON GRAVELLY SAND, 2 TO 15 PERCENT SLOPES	1.5	58,595.8	5.2%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
116	CAJON LOAMY SAND, 5 TO 9 PERCENT SLOPES	1.5	8,139.4	0.7%
117	CAJON LOAMY SAND, LOAMY SUBSTRATUM, 0 TO 2 PERCENT SLOPES	1.5	28,402.0	2.5%
118	CAJON-ARIZO COMPLEX, 2 TO 15 PERCENT SLOPES*	1.5	64,163.1	5.7%
119	CAJON-WASCO, COOL COMPLEX, 2 TO 9 PERCENT SLOPES*	1.5	5,479.9	0.5%
120	CAVE LOAM, DRY, 0 TO 2 PERCENT SLOPES	1.5	3,773.7	0.3%
121	CRAFTON- SHEEPHEAD-ROCK OUTCROP ASSOCIATION, STEEP*	1.5	6,414.9	0.6%
122	CUSHENBURY- CRAFTON-ROCK OUTCROP COMPLEX, 15 TO 50 PERCENT SLOPES*	1.5	9,824.2	0.9%
123	DUNE LAND		6,326.9	0.6%
124	FLUVENTS, OCCASIONALLY FLOODED		890.9	0.1%
125	GLENDALE VARIANT SILT LOAM, SALINE- ALKALI	3.0	1,909.3	0.2%
126	GULLIED LAND- HAPLOXERALS ASSOCIATION		18,080.4	1.6%
127	HALLORAN SANDY LOAM	1.5	16,904.0	1.5%
128	HALLORAN- DUNELAND COMPLEX, 0 TO 15 PERCENT SLOPES*	1.5	4,764.7	0.4%
129	HANFORD SANDY LOAM, COOL, 2 TO 9 PERCENT SLOPES	1.5	1,112.0	0.1%
130	HAPLARGIDS- CALCIORTHIDS COMPLEX, 15 TO 50 PERCENT SLOPES		3,964.7	0.4%
131	HELENDAL LOAMY SAND, 0 TO 2 PERCENT SLOPES	1.5	8,153.9	0.7%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
132	HELENDAL LOAMY SAND, 2 TO 5 PERCENT SLOPES	1.5	15,207.2	1.3%
133	HELENDAL-BRYMAN LOAMY SANDS, 2 TO 5 PERCENT SLOPES*	1.5	38,408.7	3.4%
134	HESPERIA LOAMY FINE SAND, 2 TO 5 PERCENT SLOPES	1.5	16,454.9	1.5%
135	JOSHUA LOAM, 2 TO 5 PERCENT SLOPES	2.4	13,691.6	1.2%
136	JOSHUA LOAM, 9 TO 15 PERCENT SLOPES	2.3	4,404.9	0.4%
137	KIMBERLINA LOAMY FINE SAND, COOL, 0 TO 2 PERCENT SLOPES	1.9	16,369.9	1.5%
138	KIMBERLINA LOAMY FINE SAND, COOL, 2 TO 5 PERCENT SLOPES	1.5	2,823.6	0.3%
139	KIMBERLINA GRAVELLY SANDY LOAM, COOL, 2 TO 5 PERCENT SLOPES	1.5	5,524.0	0.5%
140	LAVIC LOAMY FINE SAND	1.5	6,510.9	0.6%
141	LOVELACE LOAMY SAND, 5 TO 9 PERCENT SLOPES	1.5	3,961.5	0.4%
142	LUCERNE SANDY LOAM, 0 TO 2 PERCENT SLOPES	1.5	3,950.2	0.4%
143	LUCERNE SANDY LOAM, 2 TO 5 PERCENT SLOPES	1.5	6,177.6	0.5%
144	MANET COARSE SAND, 2 TO 5 PERCENT SLOPES	1.5	27,036.9	2.4%
145	MANET COBBLY COARSE SAND, 2 TO 9 PERCENT SLOPES	1.5	2,372.4	0.2%
146	MANET LOAMY SAND, LOAMY SUBSTRATUM, 0 TO 2 PERCENT SLOPES	2.2	9,572.2	0.8%
147	MANET FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	1.5	2,179.5	0.2%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
148	MIRAGE SANDY LOAM, 2 TO 5 PERCENT SLOPES*	3.2	15,044.9	1.3%
149	MIRAGE-JOSHUA COMPLEX, 2 TO 5 PERCENT SLOPES*	3.2	22,647.4	2.0%
150	MOHAVE VARIANT LOAMY SAND, 0 TO 2 PERCENT SLOPES	2.4	2,577.9	0.2%
151	NEBONA-CUDDEBACK COMPLEX, 2 TO 9 PERCENT SLOPES*	1.5	30,274.3	2.7%
152	NOROB-HALLORAN COMPLEX, 0 TO 5 PERCENT SLOPES*	2.9	37,582.7	3.3%
153	PETERMAN LOAM	6.7	318.7	0.0%
154	PETERMAN CLAY	7.5	2,358.9	0.2%
155	PITS		1,444.2	0.1%
156	PLAYAS		16,978.5	1.5%
157	RIVERWASH		12,281.0	1.1%
158	ROCK OUTCROP-LITHIC TORRIORTHENTS COMPLEX, 15 TO 50 PERCENT SLOPES*		99,157.8	8.8%
159	ROSAMOND LOAM, SALINE-ALKALI	3.5	9,208.1	0.8%
160	ROSAMOND LOAM, STRONGLY SALINE-ALKALI	4.1	613.8	0.1%
161	SOBOBA GRAVELLY SAND, COOL, 2 TO 9 PERCENT SLOPES	1.5	1,354.1	0.1%
162	SPARKHULE-ROCK OUTCROP COMPLEX, 15 TO 50 PERCENT SLOPES*	4.2	38,910.2	3.4%
163	TORRIORTHENTS-TORRIPSAMMENTS-URBAN LAND COMPLEX, 0 TO 9 PERCENT SLOPES		1,282.0	0.1%
164	TRIGGER GRAVELLY LOAM, 5 TO 15 PERCENT SLOPES	1.5	5,899.3	0.5%
165	TRIGGER-SPARKHULE-ROCK OUTCROP ASSOCIATION, STEEP*	1.5	2,666.0	0.2%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
166	TRIGGER-ROCK OUTCROP COMPLEX, 30 TO 50 PERCENT SLOPES*	1.5	5,786.9	0.5%
167	TUJUNGA SAND, COOL, 2 TO 9 PERCENT SLOPES	1.5	2,068.1	0.2%
168	TYPIC HAPLARGIDS- YERMO COMPLEX, 8 TO 30 PERCENT SLOPES*		6,717.1	0.6%
169	VICTORVILLE SANDY LOAM	2.1	6,540.1	0.6%
170	VICTORVILLE VARIANT SAND	1.5	2,695.4	0.2%
171	VILLA LOAMY SAND	1.5	13,495.6	1.2%
172	VILLA LOAMY SAND, HUMMOCKY	1.5	3,327.3	0.3%
173	WASCO SANDY LOAM, COOL, 0 TO 2 PERCENT SLOPES	1.5	5,709.2	0.5%
174	WASCO SANDY LOAM, COOL, 2 TO 5 PERCENT SLOPES	1.5	4,563.0	0.4%
175	WRIGHTWOOD-BULL TRAIL ASSOCIATION, SLOPING*	1.5	7,352.5	0.7%
176	YERMO GRAVELLY SANDY LOAM, 30 TO 50 PERCENT SLOPES	1.5	2,357.7	0.2%
177	YERMO-KIMBERLINA, COOL, ASSOCIATION, SLOPING*	1.5	14,975.8	1.3%
178	WATER		1,598.0	0.1%
179	MISCELLANEOUS WATER		41.6	0.0%
Totals for Area of Interest			1,128,329.3	100.0%

Description

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: percent

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Interpret Nulls as Zero: No

Layer Options (Horizon Aggregation Method): Depth Range (Weighted Average)

Top Depth: 0

Bottom Depth: 60

Units of Measure: Inches