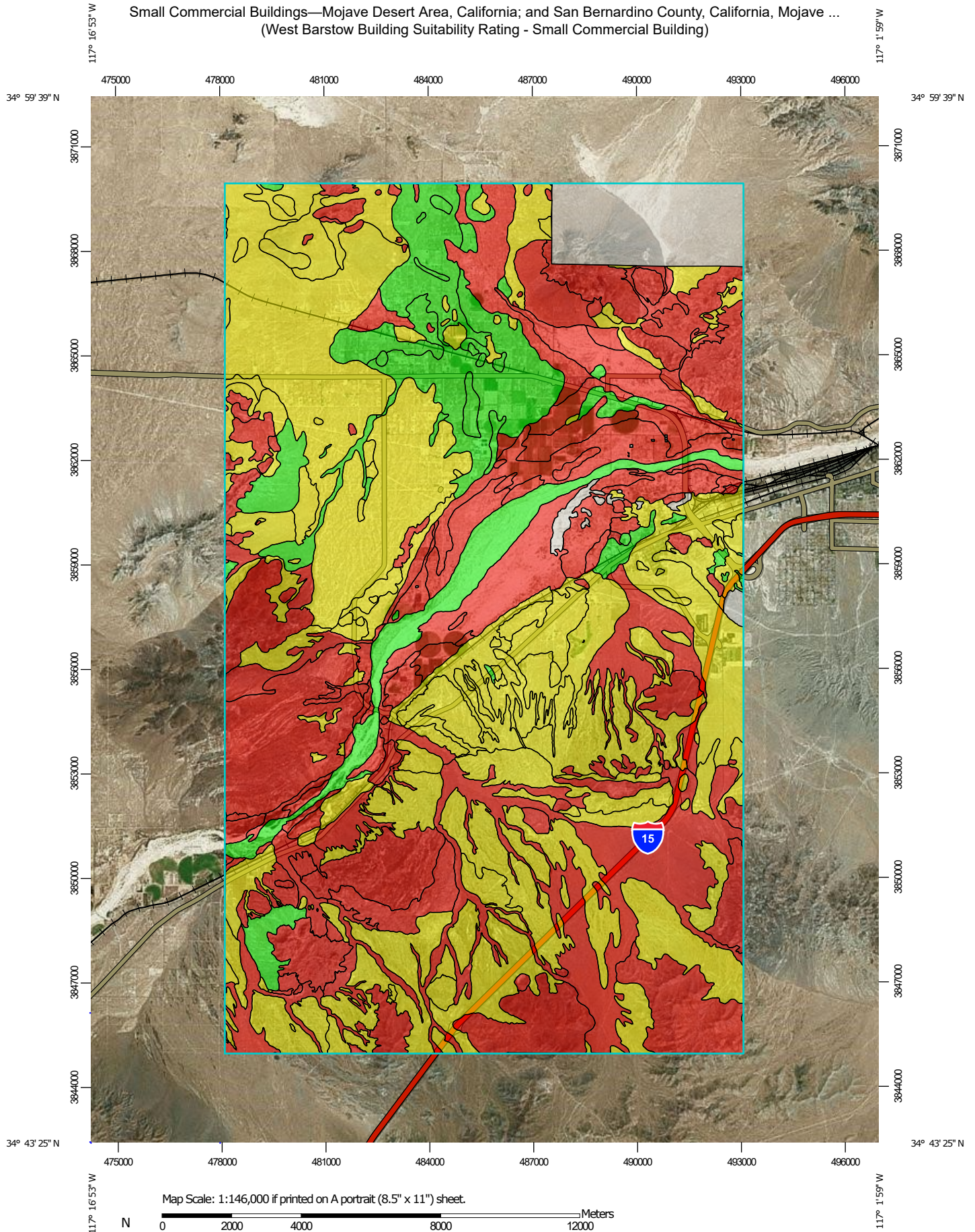


Small Commercial Buildings—Mojave Desert Area, California; and San Bernardino County, California, Mojave ...
(West Barstow Building Suitability Rating - Small Commercial Building)



Map Scale: 1:146,000 if printed on A portrait (8.5" x 11") 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

8/3/2023
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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Background

 Aerial Photography

Soils

Soil Rating Polygons

-  Very limited
-  Somewhat limited
-  Not limited
-  Not rated or not available

Soil Rating Lines

-  Very limited
-  Somewhat limited
-  Not limited
-  Not rated or not available

Soil Rating Points

-  Very limited
-  Somewhat limited
-  Not limited
-  Not rated or not available

Water Features

 Streams and Canals

Transportation

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

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: Mojave Desert Area, California
Survey Area Data: Version 20, Sep 1, 2022

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

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: Mar 17, 2022—Jun 12, 2022

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.

Small Commercial Buildings

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
NOTCOM	No Digital Data Available	Not rated	NOTCOM (100%)		3,224.7	3.5%
Subtotals for Soil Survey Area					3,224.7	3.5%
Totals for Area of Interest					92,688.2	100.0%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
100	ARIZO GRAVELLY LOAMY SAND, 2 TO 9 PERCENT SLOPES	Very limited	Arizo (85%)	Flooding (1.00) Slope (0.52)	42.3	0.0%
105	BRYMAN LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	Somewhat limited	Bryman (80%)	Shrink-swell (0.06)	553.1	0.6%
106	BRYMAN LOAMY FINE SAND, 2 TO 5 PERCENT SLOPES	Somewhat limited	Bryman (80%)	Shrink-swell (0.50) Slope (0.00)	38.0	0.0%
107	BRYMAN LOAMY FINE SAND, 5 TO 9 PERCENT SLOPES	Somewhat limited	Bryman (85%)	Slope (0.88) Shrink-swell (0.47)	4.3	0.0%
112	CAJON SAND, 0 TO 2 PERCENT SLOPES	Not limited	Cajon (85%)		3,422.2	3.7%
113	CAJON SAND, 2 TO 9 PERCENT SLOPES	Somewhat limited	Cajon (85%)	Slope (0.00)	9,069.6	9.8%
114	CAJON SAND, 9 TO 15 PERCENT SLOPES	Very limited	Cajon, SLOPE (85%)	Slope (1.00)	92.8	0.1%
115	CAJON GRAVELLY SAND, 2 TO 15 PERCENT SLOPES	Very limited	Cajon, GRAVELLY SURFACE (85%)	Flooding (1.00) Slope (1.00)	4,949.5	5.3%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
117	CAJON LOAMY SAND, LOAMY SUBSTRATUM, 0 TO 2 PERCENT SLOPES	Not limited	Cajon, LOAMY SUBSTRATUM (85%)		2,988.3	3.2%
118	CAJON-ARIZO COMPLEX, 2 TO 15 PERCENT SLOPES*	Very limited	Cajon, GRAVELLY SURFACE (55%)	Flooding (1.00)	6,452.3	7.0%
				Slope (1.00)		
			Arizo (30%)	Flooding (1.00)		
				Slope (0.52)		
119	CAJON-WASCO, COOL COMPLEX, 2 TO 9 PERCENT SLOPES*	Somewhat limited	Cajon (65%)	Slope (0.52)	230.8	0.2%
			Wasco, GRAVELLY (30%)	Slope (0.00)		
120	CAVE LOAM, DRY, 0 TO 2 PERCENT SLOPES	Not limited	Cave, DRY (85%)		1,288.0	1.4%
123	DUNE LAND	Not rated	Dune land (85%)		295.6	0.3%
			Riverwash (5%)			
			Cajon (5%)			
			Villa (3%)			
			Halloran (2%)			
131	HELENDALE LOAMY SAND, 0 TO 2 PERCENT SLOPES	Not limited	Helendale (85%)		265.0	0.3%
132	HELENDALE LOAMY SAND, 2 TO 5 PERCENT SLOPES	Somewhat limited	Helendale (85%)	Slope (0.00)	666.1	0.7%
133	HELENDALE-BRYMAN LOAMY SANDS, 2 TO 5 PERCENT SLOPES*	Somewhat limited	Helendale (50%)	Slope (0.00)	526.2	0.6%
			Bryman (35%)	Shrink-swell (0.37)		
				Slope (0.00)		
135	JOSHUA LOAM, 2 TO 5 PERCENT SLOPES	Somewhat limited	Joshua (85%)	Slope (0.00)	4,853.0	5.2%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
136	JOSHUA LOAM, 9 TO 15 PERCENT SLOPES	Very limited	Joshua (85%)	Slope (1.00)	425.7	0.5%
137	KIMBERLINA LOAMY FINE SAND, COOL, 0 TO 2 PERCENT SLOPES	Not limited	Kimberlina (85%)		45.9	0.0%
138	KIMBERLINA LOAMY FINE SAND, COOL, 2 TO 5 PERCENT SLOPES	Somewhat limited	Kimberlina (85%)	Slope (0.00)	40.2	0.0%
139	KIMBERLINA GRAVELLY SANDY LOAM, COOL, 2 TO 5 PERCENT SLOPES	Somewhat limited	Kimberlina (85%)	Slope (0.00)	13.7	0.0%
141	LOVELACE LOAMY SAND, 5 TO 9 PERCENT SLOPES	Somewhat limited	Lovelace (85%)	Slope (0.88)	813.8	0.9%
148	MIRAGE SANDY LOAM, 2 TO 5 PERCENT SLOPES*	Somewhat limited	Mirage (85%)	Shrink-swell (0.47) Slope (0.00)	1,657.5	1.8%
149	MIRAGE-JOSHUA COMPLEX, 2 TO 5 PERCENT SLOPES*	Somewhat limited	Mirage (50%) Joshua (30%)	Shrink-swell (0.47) Slope (0.00) Slope (0.00)	8,140.3	8.8%
150	MOHAVE VARIANT LOAMY SAND, 0 TO 2 PERCENT SLOPES	Somewhat limited	Mohave variant (85%)	Shrink-swell (0.00)	155.3	0.2%
151	NEBONA-CUDDEBACK COMPLEX, 2 TO 9 PERCENT SLOPES*	Somewhat limited	Nebona (60%) Cuddeback (20%)	Slope (0.52) Slope (0.52)	2,141.4	2.3%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
152	NOROB-HALLORAN COMPLEX, 0 TO 5 PERCENT SLOPES*	Somewhat limited	Norob (60%)	Shrink-swell (0.16)	10,156.6	11.0%
157	RIVERWASH	Not limited	Riverwash (90%)		2,410.6	2.6%
158	ROCK OUTCROP-LITHIC TORRIORTHE NTS COMPLEX, 15 TO 50 PERCENT SLOPES*	Very limited	Rock outcrop (60%)	Slope (1.00)	12,034.6	13.0%
			Lithic Torriorthents (30%)	Slope (1.00)		
				Depth to hard bedrock (1.00)		
159	ROSAMOND LOAM, SALINE-ALKALI	Very limited	Rosamond (85%)	Flooding (1.00)	1,792.7	1.9%
				Shrink-swell (0.50)		
162	SPARKHULE-ROCK OUTCROP COMPLEX, 15 TO 50 PERCENT SLOPES*	Very limited	Sparkhule (60%)	Slope (1.00)	2,174.2	2.3%
				Depth to hard bedrock (1.00)		
				Shrink-swell (0.50)		
166	TRIGGER-ROCK OUTCROP COMPLEX, 30 TO 50 PERCENT SLOPES*	Very limited	Trigger (60%)	Slope (1.00)	342.8	0.4%
			Rock outcrop (40%)	Depth to hard bedrock (1.00)		
				Slope (1.00)		
168	TYPIC HAPLARGIDS-YERMO COMPLEX, 8 TO 30 PERCENT SLOPES*	Not rated	Typic Haplargids (55%)		119.0	0.1%
			Cajon (5%)			
			Kimberlina (3%)			
			Nebona (3%)			
			Cuddeback (2%)			
			Mirage (2%)			
169	VICTORVILLE SANDY LOAM	Very limited	Victorville (85%)	Flooding (1.00)	2,687.9	2.9%
170	VICTORVILLE VARIANT SAND	Very limited	Victorville variant (85%)	Flooding (1.00)	1,509.6	1.6%
171	VILLA LOAMY SAND	Very limited	Villa (85%)	Flooding (1.00)	2,879.1	3.1%
172	VILLA LOAMY SAND, HUMMOCKY	Very limited	Villa (85%)	Flooding (1.00)	2,703.5	2.9%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
176	YERMO GRAVELLY SANDY LOAM, 30 TO 50 PERCENT SLOPES	Very limited	Yermo (85%)	Slope (1.00)	90.5	0.1%
177	YERMO-KIMBERLINA, COOL, ASSOCIATION, SLOPING*	Very limited	Yermo (60%)	Slope (1.00)	1,374.4	1.5%
178	WATER	Not rated	Water (100%)		10.0	0.0%
Subtotals for Soil Survey Area					89,456.3	96.5%
Totals for Area of Interest					92,688.2	100.0%

Rating	Acres in AOI	Percent of AOI
Very limited	39,552.0	42.7%
Somewhat limited	39,059.8	42.1%
Not limited	10,420.0	11.2%
Null or Not Rated	3,649.2	3.9%
Totals for Area of Interest	92,688.2	100.0%

Description

ENG - Engineering

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification of the soil). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher