

California Department of Conservation

FARMLAND MAPPING AND MONITORING PROGRAM

**SOIL CANDIDATE LISTING
FOR
PRIME FARMLAND AND FARMLAND OF STATEWIDE IMPORTANCE
MODOC COUNTY**

U.S. Department of Agriculture, Natural Resources Conservation Service,

soil surveys for Modoc County include:

Soil Survey of Surprise Valley-Home Camp Area, California-Nevada, April 1974

Soil Survey of Modoc County, Alturas Area, August 1980

Soil Survey of Butte Valley-Tule Lake Area, Parts of Siskiyou and Modoc Counties, February 1994

Soil Survey of Intermountain Area, Parts of Lassen, Modoc, Shasta, and Siskiyou Counties, 2000

Beginning in 2002, SSURGO digital soil information has been incorporated into the Modoc County Important Farmland Map. Prior versions of the map have not been modified.

The SSURGO data includes Modoc County, Alturas Area (published 09/12/2018), Intermountain Area (published 09/12/2018), Butte Valley-Tule Lake Area (published 09/12/2018), and Surprise Valley-Home Camp Area (published 09/13/2018). The digital surveys contain additional soil units beyond those published in the original paper surveys. Soils on the Prime Farmland and Farmland of Statewide Importance lists that only occur in the SSURGO data are appended in italics at the end of each list.

For more information on the NRCS SSURGO data, please visit the NRCS Soil Geography webpage: <http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/survey/geo/>

07/18/1995, updated 04/13/2020

MODOC COUNTY
PRIME FARMLAND SOILS

THESE SOIL MAPPING UNITS MEET THE CRITERIA FOR PRIME FARMLAND AS OUTLINED IN THE U.S. DEPARTMENT OF AGRICULTURE'S LAND INVENTORY AND MONITORING (LIM) PROJECT FOR THE *MODOC COUNTY, ALTURAS AREA; INTERMOUNTAIN AREA, Parts of LASSEN, MODOC, SHASTA, and SISKIYOU COUNTIES; BUTTE VALLEY-TULE LAKE AREA, Parts of SISKIYOU and MODOC COUNTIES; AND SURPRISE VALLEY-HOME CAMP AREA, SOIL SURVEYS.*

MODOC COUNTY, ALTURAS AREA

<u>SYMBOL</u>	<u>NAME</u>
112*	Buntingville clay loam, 0 to 2 percent slopes
113*	Buntingville clay loam, 2 to 9 percent slopes
114	Calimus loam, 0 to 2 percent slopes, high precip
115	Calimus loam, 2 to 9 percent slopes
116	Calimus gravelly loam, 2 to 5 percent slopes
117	Calimus clay loam, 0 to 2 percent slopes
133	Donica gravelly clay loam, 2 to 9 percent slopes
134	Drews loam, 0 to 5 percent slopes, goose lake valley, southern part
135	Drews gravelly loam, 0 to 9 percent slopes
137	Drews clay loam, 2 to 5 percent slopes
144	Jenny silty clay loam, overwash, 0 to 5 percent slopes
145	Jenny silty clay, 0 to 5 percent slopes
150	Ladd sandy loam, 0 to 2 percent slopes
151	Ladd sandy loam, 2 to 9 percent slopes
152	Lakeview loam, 0 to 2 percent slopes, pit river area
153	Lakeview clay loam, 2 to 5 percent slopes
173#	Pasquetti silty clay loam, partially drained
174	Pasquetti silty clay loam, drained
196	Tulana mucky loam, drained
73Bor	<i>Drews loam, 0 to 5 percent slopes, goose lake valley, northern part</i>

* Prime Farmland if either protected from flooding or not frequently flooded during the growing season. (Soils 112 or 113)

Prime Farmland if drained. (Soil 173)

Note: Soils 242im (Lunsford loam, 0 to 2 percent slopes) and 290im (Ravendale silty clay, 0 to 2 percent slopes) were moved to the Farmland of Statewide Importance list to match the Intermountain Area (Ca604) soil survey per NRCS 09/15/2016.

MODOC COUNTY
PRIME FARMLAND SOILS

INTERMOUNTAIN AREA, Parts of LASSEN, MODOC, SHASTA, and SISKIYOU COUNTIES

<u>SYMBOL</u>	<u>NAME</u>
131	Chalkford loam, 0 to 2 percent slopes
151	Dotta loam, gravelly substratum, 0 to 2 percent slopes
152	Dotta sandy loam, 2 to 5 percent slopes
153	Dotta sandy loam, 5 to 9 percent slopes
161	Esperanza sandy loam, 2 to 5 percent slopes
162	Esperanza loam, 0 to 2 percent slopes
184*	Henhill silt loam, partially drained, 0 to 2 percent slopes
185*	Henhill silt loam, gravelly substratum, 0 to 2 percent slopes
212*	Keddie loam, 0 to 2 percent slopes
213*	Keddie silt loam, 0 to 2 percent slopes
247	Matquaw gravelly sandy loam, 0 to 5 percent slopes
265*	Nosoni loam, 0 to 5 percent slopes
269*	Odas loam, 0 to 2 percent slopes
274*	Pastolla muck, 0 to 1 percent slopes
275*	Pastolla muck, drained, 0 to 2 percent slopes
278*	Patburn clay loam, 0 to 2 percent slopes
280*	Pit silty clay, frequently flooded, 0 to 1 percent slopes
282	Pittville sandy loam, 0 to 5 percent slopes
330*	Winnibulli loam, 0 to 2 percent slopes
331*	Winnibulli loam, gravelly substratum, 0 to 5 percent slopes
332*	Winnibulli-Burman complex, 0 to 5 percent slopes

* Prime Farmland if drained. (Soils 184, 185, 212, 213, 265, 269, 274, 275, 278, 280, 330, 331, or 332)

MODOC COUNTY
PRIME FARMLAND SOILS

BUTTE VALLEY-TULE LAKE AREA, Parts of SISKIYOU and MODOC COUNTIES

SYMBOL	NAME
102*	Capjac silt loam, 0 to 1 percent slopes
103*	Capjac silt loam, ponded, 0 to 1 percent slopes
106	Dehill fine sandy loam, 0 to 5 percent slopes
111	Dotta sandy loam, 0 to 5 percent slopes
117	Eastable loam, 0 to 5 percent slopes
118	Eastable-Hedox complex, 2 to 9 percent slopes
119*	Esro loam, 0 to 2 percent slopes
120*	Esro loam, drained, 0 to 2 percent slopes
122	Fordney loamy fine sand, 0 to 2 percent slopes, south
124*	Fordney loamy fine sand, slightly wet, 0 to 2 percent slopes
140*	Lamath silt loam, 0 to 1 percent slopes
141	Leavers sandy loam, 0 to 2 percent slopes
142*	Leavers sandy loam, drained, 0 to 5 percent slopes
148	Medford silty clay loam, 0 to 2 percent slopes
154	Munnell gravelly loam, 0 to 5 percent slopes
155	Munnell gravelly loam, slightly wet, 0 to 2 percent slopes
159	Pit silty clay, 0 to 2 percent slopes
181	Truax fine sandy loam, 0 to 5 percent slopes
183*	Tulana silt loam, 0 to 1 percent slopes
185*	Tulebasin mucky silty clay loam
186	Zanbur sandy loam, 0 to 2 percent slopes
19Aks	<i>Fordney loamy fine sand, 0 to 2 percent slopes, north</i>
36	<i>Lakeview silty clay loam</i>

* Prime Farmland if drained. (Soils 102, 103, 119, 120, 124, 140, 142, 183, or 185)

SURPRISE VALLEY-HOME CAMP AREA

<u>SYMBOL</u>	<u>NAME</u>
310	Bidwell ashy loam, 0 to 2 percent slopes
311	Bidwell ashy loam, 2 to 5 percent slopes
333*	Buntingville ashy loam, 0 to 2 percent slopes
334*	Buntingville ashy loam, 2 to 5 percent slopes
380	Donica gravelly ashy sandy loam, 2 to 5 percent slopes
400*	Four Star ashy loam
467	Nevadash ashy fine sandy loam, 0 to 2 percent slopes
468	Nevadash ashy fine sandy loam, 2 to 5 percent slopes
469	Nevadash ashy loamy fine sand, 0 to 2 percent slopes
532#	Raglan- Mazuma association
562	Simpson ashy loam, 0 to 2 percent slopes
563	Simpson ashy sandy loam, 2 to 5 percent slopes
574	Surprise gravelly ashy sandy loam, 0 to 2 percent slopes
575	Surprise gravelly ashy sandy loam, 2 to 5 percent slopes

* Prime Farmland if drained. (Soils 333, 334, and 400)

Prime Farmland if reclaimed of excess salts and sodium. (Soil 532)

Note: The Surprise Valley- Home Camp Area soil survey was remapped for the digital version. Consequently, the soil units BeA, BeB, BuA, BuB, DC, HrA, HrB, HuA, JcA, JcB, NdA, NdB, NeA, NeB, SdB, SmA, SrA, SrB, and SrC are no longer considered Prime Farmland.

MODOC COUNTY
FARMLAND OF STATEWIDE
IMPORTANCE SOILS

THESE SOIL MAPPING UNITS MEET THE CRITERIA FOR FARMLAND OF STATEWIDE IMPORTANCE AS OUTLINED IN THE U.S. DEPARTMENT OF AGRICULTURE'S LAND INVENTORY AND MONITORING (LIM) PROJECT FOR THE *MODOC COUNTY, ALTURAS AREA; INTERMOUNTAIN AREA, Parts of LASSEN, MODOC, SHASTA, and SISKIYOU COUNTIES; BUTTE VALLEY-TULE LAKE AREA, Parts of SISKIYOU and MODOC COUNTIES; AND SURPRISE VALLEY-HOME CAMP AREA, SOIL SURVEYS.*

MODOC COUNTY, ALTURAS AREA

<u>SYMBOL</u>	<u>NAME</u>
100	Ager clay, 2 to 15 percent slopes
103	Alturas loam
106	Barnard gravelly loam, 0 to 9 percent slopes
119	Daphnedale loam, 2 to 9 percent slopes
138	Drews clay loam, wet, 0 to 2 percent slopes
148	Kinkel loam, 2 to 15 percent slopes
162	Lovejoy silt loam, 0 to 5 percent slopes
163	Lovejoy-Reba complex, 0 to 5 percent slopes
168	Modoc sandy loam, 0 to 9 percent slopes
169	Modoc gravelly loam, 0 to 9 percent slopes
176	Pit silty clay loam, 0 to 2 percent slopes
177	Pit clay, 2 to 5 percent slopes
182	Reba loam, 0 to 5 percent slopes
185	Rumbo loam, 0 to 2 percent slopes
186	Rumbo loam, 2 to 5 percent slopes, eroded
187	Salisbury very fine sandy loam, 0 to 9 percent slopes
188	Salisbury gravelly loam, 0 to 9 percent slopes
195	Tulana mucky loam, partially drained
<i>242im</i>	<i>Lunsford loam, 0 to 2 percent slopes</i>
<i>290im</i>	<i>Ravendale silty clay, 0 to 2 percent slopes</i>

Note: Soils 242im (Lunsford loam, 0 to 2 percent slopes) and 290im (Ravendale silty clay, 0 to 2 percent slopes) were added to the Farmland of Statewide Importance list (from the Prime Farmland list) and Soil 333im (Witcher-Gosch complex, 2 to 15 percent slopes) was removed from the Farmland of Statewide Importance list to match the Intermountain Area (Ca604) soil survey per NRCS 09/15/2016.

MODOC COUNTY
FARMLAND OF STATEWIDE
IMPORTANCE SOILS

INTERMOUNTAIN AREA, Parts of LASSEN, MODOC, SHASTA, and SISKIYOU COUNTIES

<u>SYMBOL</u>	<u>NAME</u>
242	Lunsford loam, 0 to 2 percent slopes
252	Modoc loam, slightly sodic, 0 to 2 percent slopes
253	Modoc sandy loam, 2 to 5 percent slopes
283	Pittville sandy loam, 5 to 9 percent slopes
290	Ravendale silty clay, 0 to 2 percent slopes
315	Stoner gravelly sandy loam, 2 to 15 percent slopes
317	Swanberger clay, 0 to 1 percent slopes
319	Sweagert loam, 2 to 5 percent slopes

MODOC COUNTY
FARMLAND OF STATEWIDE
IMPORTANCE SOILS

BUTTE VALLEY-TULE LAKE AREA, Parts of SISKIYOU and MODOC COUNTIES

<u>SYMBOL</u>	<u>NAME</u>
123	Fordney loamy fine sand, 5 to 15 percent slopes
136	Laki fine sandy loam, 0 to 2 percent slopes
180	Teeters silt loam, 0 to 1 percent slopes

SURPRISE VALLEY-HOME CAMP AREA

<u>SYMBOL</u>	<u>NAME</u>
385	Donica- Surprise gravelly ashy sandy loams, 5 to 15 percent slopes
427	Hussa ashy clay loam, 0 to 2 percent slopes
428	Hussa ashy clay loam, clay substratum, 0 to 2 percent slopes
429	Hussa ashy loam, clay substratum, drained, 0 to 2 percent slopes
430	Hussa ashy loam, drained, 0 to 2 percent slopes
431	Hussa ashy loam, drained, 2 to 5 percent slopes
561	Simpson gravelly ashy sandy loam, 5 to 15 percent slopes

Note: The Surprise Valley- Home Camp Area soil survey was remapped for the digital version. Consequently, the soil units Bc, Cu, Cw, DE, Fo, Fr, Ft, Hn, Ho, HsA, HvA, HwA, Hz and SGC are no longer considered Farmland of Statewide Importance.