

California Department of Conservation
FARMLAND MAPPING AND MONITORING PROGRAM

SOIL CANDIDATE LISTING

for

PRIME FARMLAND AND FARMLAND OF STATEWIDE IMPORTANCE

STANISLAUS COUNTY

U.S. Department of Agriculture, Natural Resources Conservation Service, soil surveys for Stanislaus County include:

Soil Survey, Eastern Stanislaus Area, California, September 1964

Soil Survey, Stanislaus County, California, Western Part, December 1999

Soil Survey, Stanislaus County, California, Northern Part, September 2006

Beginning in 2000, SSURGO digital soil information has been incorporated into the Stanislaus County Important Farmland Map. Prior versions of the map have not been modified.

The SSURGO data includes Eastern Stanislaus Area (published 1/04/2007); Stanislaus County, Western Part (published 1/05/2007); and Stanislaus County, Northern Part (published 8/31/2009).

**For more information on the NRCS SSURGO data, please see:
<http://soils.usda.gov/survey/geography/ssurgo/>**

**STANISLAUS COUNTY
PRIME FARMLAND SOILS**

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
DAVIS, CALIFORNIA 95616

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 EASTERN STANISLAUS AREA; STANISLAUS COUNTY, WESTERN PART; AND STANISLAUS COUNTY, NORTHERN PART SOIL SURVEYS.

EASTERN STANISLAUS AREA

<u>Symbol</u>	<u>Name</u>
BcA	Bear Creek clay loam, 0 to 3 percent slopes
BgA	Bear Creek gravelly loam, 0 to 3 percent slopes
BmA	Bear Creek loam, 0 to 3 percent slopes
CaA	Chualar sandy loam, 0 to 3 percent slopes
CbA*	Chualar sandy loam, slightly saline-alkali, 0 to 3 percent slopes
CcA	Columbia fine sandy loam, 0 to 1 percent slopes
CeA	Columbia loam, 0 to 1 percent slopes
CfA	Columbia silt loam, 0 to 1 percent slopes
CgA*	Columbia silt loam, slightly saline, 0 to 1 percent slopes
ChA*	Columbia silt loam, moderately deep over Fresno soils, slightly saline-alkali, 0 to 1 percent slopes
CkA	Columbia silt loam, moderately deep over Temple soils, 0 to 1 percent slopes
CmA*	Columbia silt loam, moderately deep over Temple soils, slightly saline, 0 to 1 percent slopes
CoA*	Columbia silty clay loam, slightly saline, 0 to 1 percent slopes

* This unit is Prime Farmland only if reclaimed such that the electrical conductivity is less than 4 mmhos/cm.

EASTERN STANISLAUS AREA continued

<u>Symbol</u>	<u>Name</u>
CpA	Columbia soils, 0 to 1 percent slopes
DeA	Delhi loamy sand, 0 to 3 percent slopes
DeB	Delhi loamy sand, 3 to 8 percent slopes
DgA	Delhi loamy sand, silty substratum, 0 to 3 percent slopes
DmA	Dinuba fine sandy loam, 0 to 1 percent slopes
DoA	Dinuba fine sandy loam, deep, 0 to 1 percent slopes
DpA*	Dinuba fine sandy loam, slightly saline-alkali, 0 to 1 percent slopes
DrA	Dinuba sandy loam, 0 to 1 percent slopes
DtA	Dinuba sandy loam, deep, 0 to 1 percent slopes
DwA*	Dinuba sandy loam, slightly saline-alkali, 0 to 1 percent slopes
GfA	Grangeville fine sandy loam, 0 to 1 percent slopes
GgA*	Grangeville fine sandy loam, slightly saline-alkali, 0 to 1 percent slopes
GhA	Grangeville sandy loam, 0 to 1 percent slopes
GkA*	Grangeville sandy loam, slightly saline-alkali, 0 to 1 percent slopes
GmA	Grangeville very fine sandy loam, 0 to 1 percent slopes
GnA*	Grangeville very fine sandy loam, slightly saline-alkali, 0 to 1 percent slopes
GrA	Greenfield fine sandy loam, 0 to 3 percent slopes
GsA	Greenfield sandy loam, 0 to 3 percent slopes
GsB	Greenfield sandy loam, 3 to 8 percent slopes
GvA	Greenfield sandy loam, deep over hardpan, 0 to 3 percent slopes
HbA	Hanford fine sandy loam, 0 to 3 percent slopes

* This unit is Prime Farmland only if reclaimed such that the electrical conductivity is less than 4 mmhos/cm.

EASTERN STANISLAUS AREA continued

<u>Symbol</u>	<u>Name</u>
HbmA	Hanford fine sandy loam, moderately deep over sand, 0 to 3 percent slopes
HbpA	Hanford fine sandy loam, moderately deep over silt, 0 to 1 percent slopes
HbsA	Hanford fine sandy loam, deep over silt, 0 to 1 percent slopes
HcA	Hanford gravelly sandy loam, 0 to 3 percent slopes
HdA	Hanford sandy loam, 0 to 3 percent slopes
HdB	Hanford sandy loam, 3 to 8 percent slopes
HddA	Hanford sandy loam, poorly drained variant, 0 to 1 percent slopes
HdmA	Hanford sandy loam, moderately deep over sand, 0 to 3 percent slopes
HdpA	Hanford sandy loam, moderately deep over silt, 0 to 1 percent slopes
HdsA	Hanford sandy loam, deep over silt, 0 to 1 percent slopes
HeA	Hanford very fine sandy loam, 0 to 1 percent slopes
HnA	Honcut clay loam, 0 to 1 percent slopes
HoA	Honcut fine sandy loam, 0 to 1 percent slopes
HpA	Honcut loam, 0 to 1 percent slopes
HrA	Honcut sandy loam, 0 to 1 percent slopes
MkA	Meikle clay, 0 to 1 percent slopes
MmA	Modesto clay loam, 0 to 1 percent slopes
MnA [*]	Modesto clay loam, slightly saline-alkali, 0 to 1 percent slopes
MoA	Modesto loam, 0 to 1 percent slopes

* This unit is Prime Farmland only if reclaimed such that the electrical conductivity is less than 4 mmhos/cm.

EASTERN STANISLAUS AREA continued

<u>Symbol</u>	<u>Name</u>
MpA*	Modesto loam, slightly saline-alkali, 0 to 1 percent slopes
OaA	Oakdale sandy loam, 0 to 3 percent slopes
PaA	Paulsell clay, 0 to 1 percent slopes
RtA	Ryer clay, 0 to 1 percent slopes
RvA	Ryer clay loam, 0 to 1 percent slopes
RyA	Ryer loam, 0 to 1 percent slopes
SnA	Snelling sandy loam, 0 to 3 percent slopes
SnB	Snelling sandy loam, 3 to 8 percent slopes
SwA	Snelling sandy loam, poorly drained variant, 0 to 1 percent slopes
TbA	Temple loam, overwashed, 0 to 1 percent slopes
TcA*	Temple loam, overwashed, slightly saline, 0 to 1 percent slopes
TeA*	Temple silty clay, slightly saline, 0 to 1 percent slopes
TgA	Temple silty clay loam, 0 to 1 percent slopes
ThA*	Temple silty clay loam, slightly saline, 0 to 1 percent slopes
TmA*	Traver fine sandy loam, slightly saline-alkali, 0 to 1 percent slopes
TpA*	Traver sandy loam, slightly saline-alkali, 0 to 1 percent slopes
TuA	Tujunga loamy sand, 0 to 3 percent slopes
TuB	Tujunga loamy sand, 3 to 5 percent slopes
WtA	Wyman clay loam, 0 to 1 percent slopes
WvA	Wyman loam, 0 to 1 percent slopes

* This unit is Prime Farmland only if reclaimed such that the electrical conductivity is less than 4 mmhos/cm.

STANISLAUS COUNTY, WESTERN PART

<u>Symbol</u>	<u>Name</u>
100	Capay clay, 0 to 2 percent slopes
101	Capay clay, wet, 0 to 2 percent slopes
102	Capay clay, loamy substratum, 0 to 2 percent slopes
106	Capay clay, 0 to 2 percent slopes, rarely flooded
110	El Solyo silty clay loam, 0 to 2 percent slopes
111	El Solyo clay loam, wet, 0 to 2 percent slopes
116	El Solyo silty clay loam, 0 to 2 percent slopes, rarely flooded
120	Vernalis-Zacharias complex, 0 to 2 percent slopes
121	Vernalis loam, wet, 0 to 2 percent slopes
122	Vernalis loam, 0 to 2 percent slopes
123	Vernalis clay loam, wet, 0 to 2 percent slopes
125	Vernalis clay loam, 0 to 2 percent slopes
126	Vernalis-Zacharias complex, 0 to 2 percent slopes, rarely flooded
127	Vernalis loam, 0 to 2 percent slopes, rarely flooded
130	Stomar clay loam, 0 to 2 percent slopes
131	Stomar clay loam, wet, 0 to 2 percent slopes

STANISLAUS COUNTY, WESTERN PART continued

<u>Symbol</u>	<u>Name</u>
140	Zacharias clay loam, 0 to 2 percent slopes
141	Zacharias clay loam, wet, 0 to 2 percent slopes
142	Zacharias gravelly clay loam, 0 to 2 percent slopes
144	Zacharias gravelly clay loam, 2 to 5 percent slopes
145	Zacharias clay loam, 2 to 5 percent slopes
146	Zacharias clay loam, 0 to 2 percent slopes, rarely flooded
147	Zacharias gravelly clay loam, 0 to 2 percent slopes, rarely flooded
150	Columbia fine sandy loam, 0 to 2 percent slopes, occasionally flooded
151	Columbia complex, 0 to 2 percent slopes, occasionally flooded
153*	Columbia fine sandy loam, channeled, partially drained, 0 to 2 percent slopes, frequently flooded
155	Columbia fine sandy loam, 0 to 2 percent slopes, rarely flooded
157	Columbia complex, 0 to 2 percent slopes, rarely flooded
159*	Columbia complex, 0 to 2 percent slopes, frequently flooded

STANISLAUS COUNTY, WESTERN PART continued

<u>Symbol</u>	<u>Name</u>
160	Merritt silty clay loam, partially drained, 0 to 2 percent slopes, occasionally flooded
165	Merritt silty clay loam, partially drained, 0 to 2 percent slopes, rarely flooded
170	Dospalos-Bolfar complex, 0 to 2 percent slopes, occasionally flooded
175	Dospalos-Bolfar complex, 0 to 2 percent slopes, rarely flooded
190	Clear Lake clay, 0 to 2 percent slopes, occasionally flooded
195	Clear Lake clay, 0 to 2 percent slopes, rarely flooded
200	Veritas sandy loam, 0 to 2 percent slopes, rarely flooded
245	Bolfar-Columbia complex, 0 to 2 percent slopes, rarely flooded
246	Bolfar-Columbia complex, 0 to 2 percent slopes, occasionally flooded
270	Elsalado fine sandy loam, 0 to 2 percent slopes, rarely flooded
271	Elsalado loam, 0 to 2 percent slopes, rarely flooded
272	Elsalado loam, wet, 0 to 2 percent slopes
273	Elsalado fine sandy loam, 0 to 2 percent slopes
274	Elsalado loam, 0 to 2 percent slopes

STANISLAUS COUNTY, WESTERN PART continued

<u>Symbol</u>	<u>Name</u>
281	Carbona clay loam, 2 to 8 percent slopes
300	Damluis clay loam, 0 to 2 percent slopes
301	Damluis clay loam, 2 to 8 percent slopes
302	Damluis gravelly clay loam, 0 to 2 percent slopes
303	Damluis gravelly clay loam, 2 to 8 percent slopes
310	Deldota clay, 0 to 2 percent slopes
350	Woo loam, 0 to 2 percent slopes

* Prime Farmland if either protected from flooding or not frequently flooded during the growing season.

STANISLAUS COUNTY, NORTHERN PART

<u>Symbol</u>	<u>Name</u>
100	Capay clay, 0 to 2 percent slopes
106	Archerdale very fine sandy loam, overwash, 0 to 2 percent slopes
107	Archerdale clay loam, 0 to 2 percent slopes
127	Chuloak sandy loam, 0 to 2 percent slopes
128	Cogna fine sandy loam, 0 to 2 percent slopes, overwash
129	Cogna loam, 0 to 2 percent slopes
130	Columbia sandy loam, drained, 0 to 2 percent slopes, rarely flooded

STANISLAUS COUNTY, NORTHERN PART continued

<u>Symbol</u>	<u>Name</u>
131	Columbia sandy loam, partially drained, 0 to 2 percent slopes, occasionally flooded
158	Finrod clay, 0 to 2 percent slopes
170	Hicksville loam, 0 to 2 percent slopes, occasionally flooded
172	Hicksville gravelly loam, 0 to 2 percent slopes, occasionally flooded
174	Hollenbeck silty clay, 1 to 3 percent slopes
175	Honcut sandy loam, 0 to 2 percent slopes
176	Honcut fine sandy loam, 2 to 5 percent slopes
177	Honcut gravelly sandy loam, 0 to 2 percent slopes
183	Jahant loam, 2 to 8 percent slopes
195*	Clear Lake clay, partially drained, 0 to 2 percent slopes
201	Nord loam, 0 to 2 percent slopes
266	Veritas fine sandy loam, 0 to 2 percent slopes

* Prime Farmland if drained.

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IMPORTANCE SOILS**

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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 EASTERN STANISLAUS AREA; STANISLAUS COUNTY, WESTERN PART; AND STANISLAUS COUNTY, NORTHERN PART SOIL SURVEYS.

EASTERN STANISLAUS AREA

<u>Symbol</u>	<u>Name</u>
AnA	Anderson gravelly fine sandy loam, 0 to 3 percent slopes
AnB	Anderson gravelly fine sandy loam, 3 to 8 percent slopes
AoA	Anderson gravelly fine sandy loam, channeled, 0 to 3 percent slopes
BeA	Bear Creek gravelly clay loam, channeled, 0 to 3 percent slopes
CdA	Columbia fine sandy loam, moderately saline, 0 to 1 percent slopes
CsB	Columbia soils, channeled, 0 to 8 percent slopes
DfA	Delhi loamy sand, moderately deep over clay, 0 to 3 percent slopes
DhA	Delhi sand, 0 to 3 percent slopes
DhB	Delhi sand, 3 to 8 percent slopes
DkA	Dello loamy sand, 0 to 1 percent slopes
DuA	Dinuba sandy loam, poorly drained variant, 0 to 1 percent slopes
FoA	Foster very fine sandy loam, very poorly drained, slightly saline-alkali, 0 to 1 percent slopes
GoA	Grangeville very fine sandy loam, moderately saline-alkali, 0 to 1 percent slopes
HdC	Hanford sandy loam, 8 to 15 percent slopes

EASTERN STANISLAUS AREA continued

<u>Symbol</u>	<u>Name</u>
HfA ^{&}	Hilmar loamy sand, 0 to 1 percent slopes
HfdA ^{&}	Hilmar loamy sand, deep, 0 to 1 percent slopes
HsB	Hopeton clay, 3 to 8 percent slopes
HtA	Hopeton clay loam, 0 to 3 percent slopes
HtB	Hopeton clay loam, 3 to 8 percent slopes
HuA	Hopeton loam, 0 to 3 percent slopes
HuB	Hopeton loam, 3 to 8 percent slopes
MaA	Madera loam, 0 to 2 percent slopes
MtA	Montpellier coarse sandy loam, 0 to 3 percent slopes
MtB	Montpellier coarse sandy loam, 3 to 8 percent slopes
MtC	Montpellier coarse sandy loam, 8 to 15 percent slopes
MvA	Montpellier coarse sandy loam, poorly drained variant, 0 to 1 percent slopes
RaA	Raynor clay, 0 to 3 percent slopes
RaB	Raynor clay, 3 to 8 percent slopes
TdA [*]	Temple loam, overwashed, moderately saline, 0 to 1 percent slopes
TfA	Temple silty clay, moderately saline, 0 to 1 percent slopes
TkA	Temple silty clay loam, moderately saline, 0 to 1 percent slopes

[&] These map units were moved from the Prime Farmland Soils list to the Farmland of Statewide Importance Soils list per NRCS letter of 10/24/90. These changes are reflected on the July 1990 map.

^{*} This map unit's symbol was changed from 'TdA and CnA'.

EASTERN STANISLAUS AREA continued

<u>Symbol</u>	<u>Name</u>
TnA	Traver fine sandy loam, moderately saline-alkali, 0 to 1 percent slopes
ToA [#]	Traver fine sandy loam, strongly saline-alkali, 0 to 1 percent slopes
TrA	Traver sandy loam, moderately saline-alkali, 0 to 1 percent slopes
TsA	Traver sandy loam, strongly saline-alkali, 0 to 1 percent slopes
TvA	Tujung sand, 0 to 3 percent slopes
WaA	Waukena fine sandy loam, slightly saline-alkali, 0 to 1 percent slopes
WdA	Waukena sandy loam, slightly saline-alkali, 0 to 1 percent slopes
WyA	Wyman loam, moderately deep over gravel, 0 to 1 percent slopes
YkA	Yokohl loam, 0 to 1 percent slopes
YoA	Yokohl clay loam, 0 to 3 percent slopes

[#] This unit is Farmland of Statewide Importance only if reclaimed such that the electrical conductivity is less than 16 mmhos/cm.

STANISLAUS COUNTY, WESTERN PART

<u>Symbol</u>	<u>Name</u>
180	Dello fine sandy loam, channeled, 0 to 2 percent slopes, frequently flooded
210	Cortina gravelly sandy loam, 0 to 5 percent slopes, rarely flooded
215	Yokut sandy loam, 0 to 2 percent slopes
304	Damluis gravelly clay loam, 8 to 15 percent slopes
340	Carranza-Woo complex, 0 to 2 percent slopes

STANISLAUS COUNTY, NORTHERN PART

There are no soils that qualify for Farmland of Statewide Importance.