

California Department of Conservation

FARMLAND MAPPING AND MONITORING PROGRAM

**SOIL CANDIDATE LISTING**

**FOR**

**PRIME FARMLAND AND FARMLAND OF STATEWIDE IMPORTANCE**

**MERCED COUNTY**

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

soil surveys for Merced County include:

Soil Survey of Merced Area, California, July 1962

Soil Survey of Merced County, California, Western Part, March 1990

Soil Survey of Fresno County, California, Western Part, July 2002

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

The SSURGO data includes Merced Area (published 09/14/2018), Merced County, Western Part (published 09/12/2018), and Fresno County, Western Part (published 09/12/2018). 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/>

07/17/1995, updated 12/27/2021

MERCED 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 *MERCED AREA; MERCED COUNTY, WESTERN PART; AND FRESNO COUNTY, WESTERN PART*, SOIL SURVEYS.

MERCED AREA

<u>SYMBOL</u>	<u>NAME</u>
AfA	Atwater loamy sand, 0 to 3 percent slopes
AfB	Atwater loamy sand, 3 to 8 percent slopes
AgA	Atwater loamy sand, deep over hardpan, 0 to 3 percent slopes
AgB	Atwater loamy sand, deep over hardpan, 3 to 8 percent slopes
AkA	Atwater loamy sand, imperfectly drained variant, 0 to 3 percent slopes
AnA	Atwater sand, 0 to 3 percent slopes
AnB	Atwater sand, 3 to 8 percent slopes
BeA	Borden fine sandy loam, 0 to 2 percent slopes
BfA	Borden fine sandy loam, slightly saline-alkali, 0 to 2 percent slopes
BgA	Burchell silt loam, 0 to 1 percent slopes
BkA	Burchell silt loam, slightly saline-alkali, 0 to 1 percent slopes
BnA	Burchell silty clay loam, 0 to 1 percent slopes
BpA	Burchell silty clay loam, slightly saline-alkali, 0 to 1 percent slopes
CaA	Columbia fine sandy loam, moderately deep and deep, 0 to 1 percent slopes
CbA	Columbia loam, deep over hardpan, slightly saline, 0 to 1 percent slopes
CcA	Columbia silt loam, moderately deep and deep, 0 to 1 percent slopes
DbA	Delhi loamy fine sand, 0 to 3 percent slopes
DbB	Delhi loamy fine sand, 3 to 8 percent slopes
DcA	Delhi loamy fine sand, silty substratum, 0 to 3 percent slopes
DdA	Delhi loamy sand, 0 to 3 percent slopes
DdB	Delhi loamy sand, 3 to 8 percent slopes
DeA	Delhi loamy sand, silty substratum, 0 to 3 percent slopes
DgA	Delhi sand, silty substratum, 0 to 3 percent slopes
DgB	Delhi sand, silty substratum, 3 to 8 percent slopes
DpA	Dinuba sandy loam, 0 to 1 percent slopes
DrA	Dinuba sandy loam, slightly saline-alkali, 0 to 1 percent slopes
GaA	Grangeville fine sandy loam, 0 to 1 percent slopes
GbA	Grangeville loam, 0 to 1 percent slopes
GcA	Grangeville loam, slightly saline-alkali, 0 to 1 percent slopes
HaA	Hanford fine sandy loam, 0 to 1 percent slopes
HbA	Hanford fine sandy loam, moderately deep and deep over sand, 0 to 1 percent slopes
HcB	Hanford fine sandy loam, channeled, 0 to 8 percent slopes
HdA	Hanford gravelly sandy loam, 0 to 1 percent slopes

MERCED COUNTY  
PRIME FARMLAND SOILS

<u>SYMBOL</u>	<u>NAME</u>
HeA	Hanford sandy loam, 0 to 1 percent slopes
HrA	Honcut fine sandy loam, 0 to 1 percent slopes
HsA	Honcut gravelly sandy loam, 0 to 1 percent slopes
HtA	Honcut silt loam, 0 to 1 percent slopes
HuA	Honcut silt loam, deep over hardpan, 0 to 1 percent slopes
HwA	Honcut silty clay loam, 0 to 1 percent slopes
HxA	Honcut silty clay loam, deep over hardpan, 0 to 1 percent slopes
HZA	Honcut silty clay loam, channeled, 0 to 8 percent slopes
MeA	Marguerite loam, 0 to 1 percent slopes
MfA	Marguerite silty clay loam, 0 to 1 percent slopes
MgA	Marguerite silty clay loam, deep over hardpan, 0 to 1 percent slopes
MhA	Merced clay, slightly saline, 0 to 1 percent slopes
MmA	Merced clay loam, slightly saline, 0 to 1 percent slopes
MpA	Merced silt loam, overwashed, slightly saline, 0 to 1 percent slopes
PaA	Pachappa fine sandy loam, 0 to 1 percent slopes
PbA	Pachappa fine sandy loam, slightly saline-alkali, 0 to 1 percent slopes
PcA	Pachappa fine sandy loam, deep over hardpan, 0 to 1 percent slopes
PdA	Pachappa sandy loam, 0 to 1 percent slopes
PeA	Pachappa sandy loam, slightly saline-alkali, 0 to 1 percent slopes
PfA	Pachappa sandy loam, deep over hardpan, slightly saline-alkali, 0 to 1 percent slopes
PgA	Pachappa sandy loam, deep over hardpan, 0 to 1 percent slopes
PpA	Piper fine sandy loam, slightly saline-alkali, 0 to 3 percent slopes
PwA	Porterville clay, 0 to 3 percent slopes
PwB	Porterville clay, 3 to 8 percent slopes
RaA	Raynor clay, 0 to 3 percent slopes
RaB	Raynor clay, 3 to 8 percent slopes
RaC	Raynor clay, 8 to 15 percent slopes
RsA	Ryer clay loam, 0 to 2 percent slopes
RsB	Ryer clay loam, 3 to 8 percent slopes
RtA	Ryer silt loam, 0 to 3 percent slopes
Sk	Slickens
SmA	Snelling sandy loam, imperfectly drained variant, 0 to 1 percent slopes
SnA	Snelling sandy loam, 0 to 3 percent slopes
SnB	Snelling sandy loam, 3 to 8 percent slopes
SnB2	Snelling sandy loam, 3 to 8 percent slopes, eroded
TbA	Temple clay loam, 0 to 1 percent slopes
TcA	Temple clay loam, slightly saline, 0 to 1 percent slopes
TdA	Temple clay loam, slightly saline, channeled, 0 to 3 percent slopes
TeA	Temple loam, 0 to 1 percent slopes
TfA	Temple loam, slightly saline, 0 to 1 percent slopes
ThA	Traver clay loam, slightly saline-alkali, 0 to 1 percent slopes
TnA	Traver fine sandy loam, slightly saline-alkali, 0 to 1 percent slopes
WnA	Wyman clay loam, deep over hardpan, 0 to 1 percent slopes
WoA	Wyman clay loam, 0 to 3 percent slopes

MERCED COUNTY  
PRIME FARMLAND SOILS

<u>SYMBOL</u>	<u>NAME</u>
WpA	Wyman loam, deep over hardpan, slightly saline-alkali, 0 to 1 percent slopes
WrA	Wyman loam, 0 to 3 percent slopes
WsA	Wyman loam, deep over hardpan, 0 to 3 percent slopes
WtA	Wyman loam, moderately deep and deep over gravel, 0 to 3 percent slopes
YdA	Yolo loam, 0 to 5 percent slopes, dry
YeA	Yolo loam, deep over hardpan, 0 to 1 percent slopes

MERCED COUNTY, WESTERN PART

<u>SYMBOL</u>	<u>NAME</u>
106	Anela gravelly loam, 0 to 2 percent slopes
109	Apollo clay loam, 2 to 8 percent slopes
116	Arbuckle variant sandy loam
123	Ayar clay, 5 to 8 percent slopes
131	Ballvar loam, 2 to 8 percent slopes
132	Ballvar-Pedcat, eroded association, 0 to 5 percent slopes
137	Bisgani loamy sand, partially drained
139	Bolfar clay loam, partially drained
144	Capay clay loam, 0 percent slopes, dry
145	Capay clay, 0 percent slopes, dry
149	Chaqua loam, 2 to 8 percent slopes
154	Cole variant clay loam, 2 to 5 percent slopes
161	Damluis clay loam, 0 to 2 percent slopes
163	Damluis gravelly clay loam, 0 to 2 percent slopes
164	Damluis gravelly clay loam, 2 to 8 percent slopes
167	Deldota clay, partially drained
170	Dospalos clay loam, partially drained
171	Dospalos clay, partially drained
174	Dospalos-Urban land complex, partially drained
178	Elnido sandy loam, partially drained
180	Elnido clay loam, partially drained
181	Escano clay loam, partially drained
192	Henmel clay loam, partially drained
193	Herito loam
206	Los Banos clay loam, 0 to 2 percent slopes
207	Los Banos clay loam, 2 to 8 percent slopes
209	Los Banos-Pleito clay loams, 2 to 8 percent slopes
210	Los Banos variant gravelly sandy clay loam
228	Palazzo sandy loam, partially drained
229	Paver clay loam, 0 to 2 percent slopes
230	Paver clay loam, 2 to 5 percent slopes
246	San Emigdio fine sandy loam
247	San Emigdio loam
253	Stanislaus clay loam
254	Stanislaus clay loam, wet
263	Vernalis loam, 2 to 5 percent slopes
274	Woo loam, 0 to 2 percent slopes
275	Woo loam, gravelly substratum, 0 to 2 percent slopes
276	Woo sandy clay loam, 0 to 2 percent slopes
277	Woo clay loam, 0 to 2 percent slopes
278	Woo clay loam, 2 to 5 percent slopes
279	Woo clay loam, wet, 0 to 2 percent slopes
280	Woo clay, 0 to 2 percent slopes

FRESNO COUNTY, WESTERN PART

<u>SYMBOL</u>	<u>NAME</u>
115	Bolfar loam, drained, 0 to 1 percent slopes
311	Bisgani sandy loam, drained, 0 to 1 percent slopes
320	Elnido sandy loam, drained, 0 to 1 percent slopes
325	Palazzo sandy loam, drained, 0 to 1 percent slopes
406	Guijarral sandy loam, 2 to 5 percent slopes
412	Yribarren clay loam, 0 to 2 percent slopes
414	Dospalos clay loam, drained, 0 to 1 percent slopes
415	Dospalos clay, drained, 0 to 1 percent slopes
425	Kimberlina sandy loam, 0 to 2 percent slopes
426	Kimberlina sandy loam, 2 to 5 percent slopes
436	Panoche loam, 0 to 2 percent slopes
437	Panoche sandy loam, 0 to 2 percent slopes
438	Panoche loam, 2 to 5 percent slopes
442	Panoche clay loam, 0 to 2 percent slopes
445	Excelsior sandy loam, 0 to 2 percent slopes
447	Excelsior sandy loam, sandy substratum, 0 to 2 percent slopes
448	Excelsior loamy sand, sandy substratum, 0 to 1 percent slopes, eroded
451	Milham sandy loam, 0 to 2 percent slopes
452	Milham sandy loam, 2 to 5 percent slopes
454*	Polvadero sandy loam, 0 to 2 percent slopes
455*	Polvadero sandy loam, 2 to 5 percent slopes
459	Ciervo clay, 0 to 2 percent slopes
466	Paver clay loam, 0 to 2 percent slopes
468	Deldota clay, partially drained, 0 to 1 percent slopes
474	Westhaven loam, 0 to 2 percent slopes
477	Westhaven clay loam, 0 to 2 percent slopes
478	Cerini sandy loam, 0 to 2 percent slopes
479	Cerini clay loam, 0 to 2 percent slopes
481	Cerini clay loam, 2 to 5 percent slopes
488	Wasco sandy loam, 0 to 2 percent slopes
489	Wasco sandy loam, 2 to 5 percent slopes
490	Cerini sandy loam, subsided, 0 to 5 percent slopes
491	Cerini clay loam, subsided, 0 to 5 percent slopes
492	Panoche loam, subsided, 0 to 5 percent slopes
493	Panoche clay loam, subsided, 0 to 5 percent slopes
823	Ayar clay, 5 to 8 percent slopes
849	Chaqua loam, 2 to 8 percent slopes
851	Los Banos clay loam, 0 to 2 percent slopes
852	Los Banos clay loam, 2 to 8 percent slopes
853	Los Banos-Pleito complex, 2 to 8 percent slopes
863	Vernalis loam, 0 to 2 percent slopes
872	Vernalis loam, 2 to 5 percent slopes

MERCED COUNTY  
PRIME FARMLAND SOILS

\* Prime Farmland if reclaimed of excess salts and sodium (Soils 454 and 455).

MERCED 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 *MERCED AREA; MERCED COUNTY, WESTERN PART; AND FRESNO COUNTY, WESTERN PART*, SOIL SURVEYS.

MERCED AREA

<u>SYMBOL</u>	<u>NAME</u>
2HB	Hopeton clay, 0 to 8 percent slopes
AdA	Atwater loamy sand, deep hardpan, poorly drained variant, 0 to 3 percent slopes
BaA	Bear Creek clay loam, 0 to 3 percent slopes
BcA	Bear Creek loam, 0 to 3 percent slopes
BmA	Burchell silt loam, moderately saline-alkali, 0 to 1 percent slopes
BrA	Burchell silty clay loam, moderately saline-alkali, 0 to 1 percent slopes
CeA	Columbia soils, channeled, 0 to 3 percent slopes
DfA	Delhi sand, 0 to 3 percent slopes
DfB	Delhi sand, 3 to 8 percent slopes
DfC	Delhi sand, 8 to 15 percent slopes
DhA	Dello loamy fine sand, 0 to 1 percent slopes
DkA	Dello sand, 0 to 1 percent slopes
DoA	Dello sand, slightly saline-alkali, 0 to 1 percent slopes
GdA	Grangeville loam, moderately saline-alkali, 0 to 1 percent slopes
GeA	Greenfield sandy loam, deep over hardpan, poorly drained variant, 0 to 1 percent slopes
GfA	Greenfield sandy loam, deep over hardpan, 0 to 3 percent slopes
GfB	Greenfield sandy loam, deep over hardpan, 3 to 8 percent slopes
GfB3	Greenfield sandy loam, deep over hardpan, 3 to 8 percent slopes, gullied
HgA	Hilmar loamy sand, 0 to 3 percent slopes
HhA	Hilmar loamy sand, slightly saline-alkali, 0 to 3 percent slopes
HoA	Hilmar sand, 0 to 3 percent slopes
HpA	Hilmar sand, slightly saline-alkali, 0 to 3 percent slopes
LaA	Landlow clay, 0 to 1 percent slopes
LbA	Landlow clay, slightly saline-alkali, 0 to 1 percent slopes
LcA	Landlow silt loam, 0 to 1 percent slopes
LdA	Landlow silt loam, slightly saline-alkali, 0 to 1 percent slopes
LeA	Landlow silty clay loam, 0 to 1 percent slopes
LfA	Landlow silty clay loam, slightly saline-alkali, 0 to 1 percent slopes
LgA	Lewis clay, slightly saline-alkali, 0 to 1 percent slopes
LkA	Lewis loam, slightly saline-alkali, 0 to 1 percent slopes
LoA	Lewis silty clay loam, slightly saline-alkali, 0 to 1 percent slopes



MERCED COUNTY  
 FARMLAND OF STATEWIDE  
 IMPORTANCE SOILS

<u>SYMBOL</u>	<u>NAME</u>
MkA	Merced clay, moderately saline, 0 to 1 percent slopes
MnA	Merced clay loam, moderately saline, 0 to 1 percent slopes
PsA	Piper fine sandy loam, moderately saline-alkali, 0 to 3 percent slopes
PxA	Pozo clay loam, 0 to 1 percent slopes
PyA	Pozo clay loam, slightly saline, 0 to 1 percent slopes
PzA	Pozo clay loam, moderately saline, 0 to 1 percent slopes
RgA	Rocklin loam, 0 to 3 percent slopes
RgB	Rocklin loam, 3 to 8 percent slopes
SnC	Snelling sandy loam, 8 to 15 percent slopes
SnC2	Snelling sandy loam, 8 to 15 percent slopes, eroded
TkA	Traver clay loam, moderately saline-alkali, 0 to 1 percent slopes
ToA	Traver fine sandy loam, moderately saline-alkali, 0 to 1 percent slopes
TtA	Tujunga loamy sand, 0 to 3 percent slopes
TuA	Tujunga sand, 0 to 3 percent slopes
TwA	Tujunga sand, channeled, 0 to 8 percent slopes
WhB	Whitney fine sandy loam, 3 to 8 percent slopes
WhB2	Whitney fine sandy loam, 3 to 8 percent slopes, eroded
WkB	Whitney sandy loam, 3 to 8 percent slopes
WkC	Whitney sandy loam, 8 to 15 percent slopes
WkC2	Whitney sandy loam, 8 to 15 percent slopes, eroded
WmB2	Whitney and Rocklin soils, 3 to 8 percent slopes, eroded
WmC2	Whitney and Rocklin soils, 8 to 15 percent slopes, eroded

MERCED COUNTY  
 FARMLAND OF STATEWIDE  
 IMPORTANCE SOILS

MERCED COUNTY, WESTERN PART

<u>SYMBOL</u>	<u>NAME</u>
103	Alros clay loam, partially drained
117	Arburua loam, 2 to 8 percent slopes
140	Bolfar clay loam, hummocky
146	Carranza gravelly loam, 0 to 2 percent slopes
147	Carranza gravelly clay loam, 2 to 8 percent slopes
150	Chateau clay, partially drained
153	Chinvar loam
162	Damluis clay loam, 2 to 8 percent slopes
166	Damluis variant clay loam
168	Dosamigos clay loam, partially drained
169	Dosamigos clay, partially drained
172	Dospalos clay, hummocky
173	Dospalos-Bolfar complex, occasionally flooded
175	Edminster loam
176	Edminster-Kesterson complex
177	Edminster variant sand
198	Kesterson sandy loam
200	Kesterson loam, ponded
201	Kesterson-Edminster complex
212	Marcuse clay, leveled
239	Pleito gravelly clay loam, 8 to 15 percent slopes
258	Trulae silty clay, partially drained
266	Volta clay loam, partially drained
267	Wekoda clay, partially drained
285	Yokut sandy loam
286	Yokut loam

MERCED COUNTY  
 FARMLAND OF STATEWIDE  
 IMPORTANCE SOILS

FRESNO COUNTY, WESTERN PART

<u>SYMBOL</u>	<u>NAME</u>
101	Armona loam, partially drained, 0 to 1 percent slopes
120	Altaslough clay loam, 0 to 1 percent slopes
130	Gepford clay, 0 to 1 percent slopes
282	Tachi clay, 0 to 1 percent slopes
285	Tranquillity-Tranquillity, wet, complex, saline-sodic, 0 to 1 percent slopes
286	Tranquillity clay, saline-sodic, wet, 0 to 1 percent slopes
404	Milham-Guijarral association, 5 to 15 percent slopes
405	Polvadero-Guijarral complex, 5 to 15 percent slopes
434	Lethent clay loam, wet, 0 to 1 percent slopes
435	Lethent clay loam, 0 to 1 percent slopes
453	Milham sandy loam, 5 to 9 percent slopes
461	Ciervo clay, saline-sodic, wet, 0 to 1 percent slopes
462	Ciervo, wet-Ciervo complex, saline-sodic, 0 to 1 percent slopes
470	Chateau clay, partially drained, 0 to 1 percent slopes
472	Wekoda clay, partially drained, 0 to 1 percent slopes
475	Posochanet clay loam, saline-sodic, wet, 0 to 1 percent slopes
476	Posochanet clay loam, saline-sodic, 0 to 2 percent slopes
480	Calflax clay loam, saline-sodic, 0 to 2 percent slopes
482	Calflax clay loam, saline-sodic, wet, 0 to 1 percent slopes