

Land Classification Interpretations
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Prime and Important Farmland

Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops, and is also available for these uses (the land could be cropland, pastureland, forest land, or other land, but not urban built-up land or water). It has the soil quality, growing season, and moisture supply needed to economically produce sustained high yields of crops when treated and managed, including water management, according to acceptable farming methods.

In general, prime farmlands have an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, acceptable salt content, and few or no rocks. They are permeable to water and air. Prime farmlands are not excessively erodible or saturated with water for a long period of time, and they either do not flood frequently or are protected from flooding.

This section includes lists of soil survey map units that meet the soil requirements for prime farmland in the county and state. Soils that have limitations, such as a high water table or flooding, may qualify as prime farmland if these limitations are overcome by such measures as drainage or flood control. State important soils are also noted.

This subsection includes:

- **(a) County Prime Farmland List**
- **(b) Missouri's Soil Survey Mapping Units Denoting Prime Farmland and Farmland of Statewide Importance**

Cooper County, Missouri
 Prime Farmland

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name.)

Map symbol	Soil name
10	Ackmore silt loam, occasionally flooded
11B	Arisburg silt loam, 1 to 5 percent slopes
11B2	Arisburg silt loam, 2 to 5 percent slopes, eroded
13B	Jemerson silt loam, 2 to 5 percent slopes, rarely flooded
20	Bremer silt loam, occasionally flooded (Prime farmland if drained)
25A	Chauncey silt loam, 0 to 3 percent slopes (Prime farmland if drained)
27B	Clafork silt loam, 2 to 5 percent slopes
27B2	Clafork silt loam, 2 to 5 percent slopes, eroded
28A	Dameron silt loam, 0 to 3 percent slopes, occasionally flooded
29	Darwin silty clay, occasionally flooded (Prime farmland if drained)
30	Dockery silt loam, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
32A	Crestmeade silt loam, 0 to 2 percent slopes
32B2	Crestmeade silt loam, 1 to 4 percent slopes, eroded
33	Eudora loam, sandy substratum, occasionally flooded
35A	Freeburg silt loam, 0 to 2 percent slopes, occasionally flooded
35B	Freeburg silt loam, 1 to 4 percent slopes, rarely flooded
38B2	Glensted silt loam, 2 to 5 percent slopes, eroded (Prime farmland if drained)
41	Grable silt loam, loamy substratum, occasionally flooded
46	Haynie silt loam, occasionally flooded
47	Haynie-Waldron complex, occasionally flooded
48B	Higginsville silt loam, 2 to 5 percent slopes
50C	Bunceton silt loam, 3 to 8 percent slopes
50C2	Bunceton silt loam, 3 to 8 percent slopes, eroded
53	Buckney fine sandy loam, occasionally flooded
54A	Leslie silt loam, terrace, 0 to 2 percent slopes (Prime farmland if drained)
54B	Leslie silt loam, 1 to 3 percent slopes (Prime farmland if drained)
54B2	Leslie silt loam, 2 to 5 percent slopes, eroded
56	Leta silty clay loam, occasionally flooded
64B	McGirk silt loam, 2 to 5 percent slopes (Prime farmland if drained)
72	Moniteau silt loam, occasionally flooded (Prime farmland if drained)
75	Shannondale silt loam, rarely flooded

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Map symbol	Soil name
76	Motark silt loam, occasionally flooded
80B	Pershing silt loam, 2 to 5 percent slopes
80B2	Pershing silt loam, 2 to 5 percent slopes, eroded
86	Speed silt loam, 0 to 2 percent slopes, occasionally flooded
87A	Speed silt loam, 0 to 3 percent slopes, rarely flooded
88	Sturkie silt loam, frequently flooded (Prime farmland if protected from flooding or not frequently flooded during the growing season)
90B	Wakenda silt loam, 2 to 5 percent slopes
92	Waldron silty clay loam, loamy substratum, occasionally flooded
93B	Cotton silt loam, 2 to 5 percent slopes
93B2	Cotton silt loam, 2 to 5 percent slopes, eroded
94B	Weller silt loam, 2 to 5 percent slopes
94B2	Weller silt loam, 2 to 5 percent slopes, eroded
99	Zook silty clay loam, occasionally flooded (Prime farmland if drained)