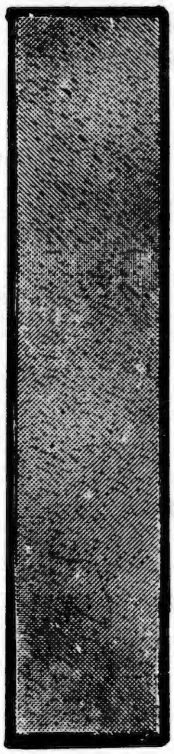
E.M. 3191
July 1969

MONDOVI SOIL GUIDE SHEET

The Mondovi series consists of very deep, dark-colored, well drained soils of silt loam texture throughout. These soils formed under grass in silty alluvium that included volcanic ash. They occupy nearly level areas along drainageways at elevations of 1600 to 2000 feet. They are found in Columbia and Spokane Counties.

Representative Description: MONDOVI silt loam	Water Holding Capacity In/in	Permeability In/hr	Shrink-Swell Potential	Engineering Classification Unified	AASHO
Surface layer and subsoil: 0-60", very dark brown, friable silt loam; granular structure in upper 8"; pH 7.0	.23	0.63-2.0	low to moderate	ML or CL	A-4



Caution: All Mondovi soils are not exactly like the one shown above. Differences in characteristics will affect suitability and limitations for uses. See Capability Classification table.

ABOUT THE SOIL GUIDE SHEETS: Soil Guide Sheets are written primarily to indicate suitability for irrigation farming. In addition, some engineering properties are shown. These will serve as a preliminary guide but on-site investigation will be needed before making final decisions on non-agricultural uses. Certain terms and soil ratings may not be self explanatory. Refer to "Guide to the Use of Soil Guide Sheets".

COOPERATIVE EXTENSION SERVICE • COLLEGE OF AGRICULTURE • WASHINGTON STATE UNIVERSITY • PULLMAN
In cooperation with the United States Department of Agriculture
Issued in furtherance of the Acts of May 8 and June 30, 1914, by the Washington State University
Cooperative Extension Service, John P. Miller, Director

Capability Classification

Mondovi soils	(percent slope) 0-2	2-5
1. Silt loam[1/]	IIs	IIe

Determine the depth of your soil. Depth affects use and management. Total water holding capacity is less on shallower soil.

Suitability as a source of:
- Topsoil - Good
- Sand - Not suitable
- Gravel - Not suitable
- Road Fill - Fair to poor

Soil features affecting engineering uses:
- Highway location - Moderate to very high susceptibility to frost action; moderate permeability; low to moderate shrink-swell potential
- Dikes, Levees, Embankments - Low stability; semipervious to impervious when compacted; low to moderate shrink-swell potential, very low shear strength.
- Reservoir - Moderate permeability
- Septic disposal systems - Moderate permeability

Suitability for irrigation farming:
- Water holding capacity - High
- Infiltration - Moderate
- Permeability - Moderate
- Drainage - Well drained
- Salinity and alkali hazard - Low
- Erosion hazard - Slight

General Evaluation: Mondovi soils are productive under irrigation with normal, good management practices. They are suitable for rill or sprinkler irrigation. Suitable for grain, peas, forage crops and some row crops. Productivity and choice of crops may be limited by cold climate. Have your soil tested to determine fertilizer needs.

[1/] Deep and very deep soils (40"+) with no inhibiting layers in the profile.

This Soil Guide Sheet was prepared by A. I. Dow, Extension Soils Specialist, Washington State University in cooperation with Norman C. Donaldson, Soil Scientist, Robert F. Mitchel, State Soil Scientist, Soil Conservation Service, USDA; and Mel A. Hagood, Extension Irrigation and Water Use Specialist, Washington State University