JOSEPHINE SERIES*

The Josephine series consists of well-drained soils underlain by vertically tilted slate, shale, and contact metamorphic rock. These soils are gently rolling to very steep and are on mountainous uplands. Slopes are 5 to 75 percent. The vegetation is mostly mixed conifer and hardwood and shrubs. Elevation ranges from 2,000 to 4,500 feet. The annual rainfall is 45 to 55 inches, and the average annual air temperature is about 55ºF. The frost-free season is 135 to 235 days.

In a representative profile the surface layer is 18 inches of reddish-brown loam and gravelly loam. Reaction is slightly acid and medium acid. The subsoil is 52 inches of reddish-yellow silty clay loam. Reaction in the subsoil is medium acid and strongly acid. Weathered slate and shale are at a depth of about 70 inches.

Permeability is moderate in these soils. The Josephine soils are used for timber production, grazing, watershed, and as wildlife habitat. They are also used for pasture to a limited extent.

Individual Soil Types	Rock Outcrop	Runoff	Erosion	Capability Unit	Woodland Suitability	Uses
Josephine loam 9 to 15% slopes (JoC)	Very little	Medium	Moderate	IIIe-1	1	Timber production, limited grazing, irrigated pasture
Josephine loam 15 to 30% slopes (JoD)	Very little	Medium	Moderate	IVe-1	2	Timber production, limited grazing, pasture
Josephine loam 30 to 50% slopes (JoE)	Very little	Medium to Rapid	High	VIe-1	2	Timber production, limited grazing
Josephine cobbly loam 5 to 30% slopes (JpD)	20 – 25% cobbly	Medium	Slight – Moderate	VIe-1	5	Timber production, limited grazing
Josephine-Mariposa Complex 15 to 50% slopes (JrE2)	Small areas	Medium to Rapid	Moderate - High	VIe-1	2	Timber production, limited grazing
Josephine-Mariposa Complex 50 to 75% slopes, eroded (JrF2)	10 – 25%	Rapid	High – Very High	VIIs-1	3	Timber production, watershed, wildlife habitat
Josephine-Rock Outcrop Complex 15 to 50% slopes (JsE)	10 – 25%	Medium to Rapid	Moderate - High	VIs-1	5	Timber production, limited grazing

**Applies in general to individual soil types*