

Table 3.7

Summary of the Physical Characteristics of Individual Soil Mapping Units in the WCPA ¹

Soil Map Unit #	Soil Map Unit Name	Slope Phase	Topography	Soil Series	Soil Depth	Rooting Depth	Available Water Capacity	Permeability	Runoff Potential	Water Erosion Hazard	Wind Erosion Hazard
117	Badland ²	---	Moderately steep to very steep barren land with high densities of well integrated drainage networks	---	---	---	---	---	---	---	---
✓167	Cushman-Forkwood association, rolling	3 to 15%	Hills and alluvial fans	45% Cushman very fine sandy loam 40% Forkwood loam	moderately deep very deep	20 - 40 in. > 60 in.	low high	moderate moderate	medium slow	moderate slight	severe moderate
188	Forkwood-Zigweid association, sloping	3 to 15%	Alluvial fans and foot slopes	50% Forkwood fine sandy loam 30% Zigweid loam	very deep very deep	> 60 in. > 60 in.	high high	moderate moderate	medium medium	moderate moderate	severe moderate
195	Haverdad-Clarkelen complex, saline	0 to 3%	Flood plains	45% Haverdad loam 35% Clarkelen sandy loam	very deep very deep	> 60 in. > 60 in.	high moderate	moderate mod rapid	slow slow	slight slight	moderate severe
209	Keyner-Absted-Slickspots complex ³	0 to 6%	Alluvial fans and low terraces	50% Keyner sandy loam 20% Absted sandy clay loam 15% Slickspots	very deep very deep ---	> 60 in. 10 - 20 in. ---	high high ---	slow slow very slow	slow slow ---	slight slight ---	severe moderate ---
227	Orella-Cadoma-Petrie clay loams	3 to 30%	hills and adjacent alluvial fans	40% Orella clay loam 20% Cadoma clay loam 20% Petrie clay loam	shallow mod deep very deep	10 - 20 in. 20 - 40 in. > 60 in.	very low low high	very slow slow very slow	rapid rapid medium	severe severe moderate	moderate moderate moderate
✓228	Orella-Rock outcrop complex ⁴	3 to 30%	Ridges and hills	50% Orella clay loam 40% Rock outcrop	shallow ---	10 - 20 in. ---	very low ---	very slow ---	rapid ---	severe ---	moderate ---
256	Rock outcrop-Ustic Torriorthents, shallow-Rubble land complex ⁵	30 to 100%	Escarpmnts, hogbacks, and canyon sides	40% Rock outcrop 25% Ustic Torriorthents, shallow 15% Rubble land	--- very shallow ---	--- 4 - 20 in ---	--- very low ---	--- slow - rapid ---	--- rapid ---	--- severe ---	--- --- ---

NOTES: ¹ Information obtained from the *Soil Survey of Natrona County, Wyoming* published in 1997 by the United States Department of Agriculture - Natural Resources Conservation Service (USDA-NRCS 1997).

² SMU 117 - Badland consists mainly of exposures of interbedded soft shale, siltstone, and fine grained sandstone. These areas yield large amounts of sediment during high intensity rain storms.

³ SMU 209 - Slickspots are areas of clayey soils that are very strongly alkaline and support little or no vegetation.

⁴ SMU 228 - Rock outcrop consists of exposures of soft sodic shale.

⁵ SMU 256 - Rock outcrop consists of ledges and escarpments of exposed sedimentary rock. Rubble land typically consists of areas where colluvial boulders and stones have accumulated between sandstone ledges and escarpments. The voids between the boulders and stones are virtually free of soil material and support no vegetation.