

B-1-d. Cropland, Orchard, Coffee Guidance Document

SOILS

Symbol	Map Unit
rPXE	Puna extremely stony muck, 3 to 25 percent slope
rKXD	Kiloa extremely stony muck, 6 to 20 percent slope

These are well-drained organic soils on gentle to moderately steep slopes. The surface layer is 2 to 12 inches of extremely stony muck underlain by over 50 inches of a'a lava fragments. Cleared and planted areas typically have a protective gravel and cobble mulch. Exposed organic materials can be volatilized. Permeability is rapid, runoff is slow or very slow and erosion hazard by water is slight. Pesticide and nutrient leaching potential can be high, including phosphorus, because of the thin organic layer. These materials should be carefully applied in small, split applications of fertilizer. Precipitation ranges from 60 to 150 inches and areas of Kiloa soils are noted as having frequently occurring fog.

REPRESENTATIVE RESOURCE CONCERNS

- plant productivity
- soil tilth
- soil moisture management
- pesticide & nutrient ground water contaminants

EFFECTS: (+) = Beneficial effect (0) = No effect (-) = Negative effect

Resource:	SOIL	WATER						AIR		PLANTS		ANIMALS
Considerations:	Condition	Quantity		Quality				Quality	Condition	Suitability	Condition	Management
Concern Practice	Soil Tilth	Inadequate Outlets	Water Mgt.	Ground Water Contaminants		Surface Water Contaminants		Airborne Sediment & Smoke Particles – Onsite & Offsite	Air Movement	Plants Unsuitable for intended use	Productivity (kind and distribution)	Population & Resource Balance
				Pesticide	Nutrient	Pesticide	Nutrient					
Conservation Crop Rotation	+	0	0	0	0	0	0	0	0	+	+	+
Cover Crop	+	+	0	+	+	+	+	+	+	+	+	+
Crop Rotation	+	0	+	+	+	+	+	0	0	+	+	+
Land Smoothing	+ and -	0	+	+	+	-	-	0	0	+	+	-
Mulching	+	+	+	+ and -	-	+	+	+	0	0	+	0
Nutrient Mgt.	0	0	0	0	+	0	+	0	0	0	+	+
Pest Mgt.	0	0	+	+	0	+	0	+	0	0	+	-
Residue Mgt.	0	0	0	+	0	0	0	+	0	0	+	+