

Douglas County Area, Oregon

37A—Chapman-Chehalis complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 27k5

Elevation: 100 to 1,600 feet

Mean annual precipitation: 30 to 60 inches

Mean annual air temperature: 50 to 55 degrees F

Frost-free period: 160 to 235 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Chapman and similar soils: 50 percent

Chehalis and similar soils: 25 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chapman

Setting

Landform: Flood plains

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium from mixed sources

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 25 inches: loam

H3 - 25 to 40 inches: loam

H4 - 40 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: NoneOccasional

Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): 1

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: B

Ecological site: F005XZ003CA - Terraces

Forage suitability group: Well Drained < 15% Slopes (G005XY004OR)

Other vegetative classification: Well Drained < 15% Slopes
(G005XY004OR)

Hydric soil rating: No

Description of Chehalis

Setting

Landform: Flood plains

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium from mixed sources

Typical profile

H1 - 0 to 16 inches: silt loam

H2 - 16 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: NoneOccasional

Frequency of ponding: None

Available water supply, 0 to 60 inches: High (about 11.5 inches)

Interpretive groups

Land capability classification (irrigated): 2w

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B

Ecological site: F005XZ002CA - Floodplains

Forage suitability group: Well Drained < 15% Slopes

(G005XY004OR)

Other vegetative classification: Well Drained < 15% Slopes

(G005XY004OR)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Douglas County Area, Oregon

Survey Area Data: Version 21, Oct 27, 2021