

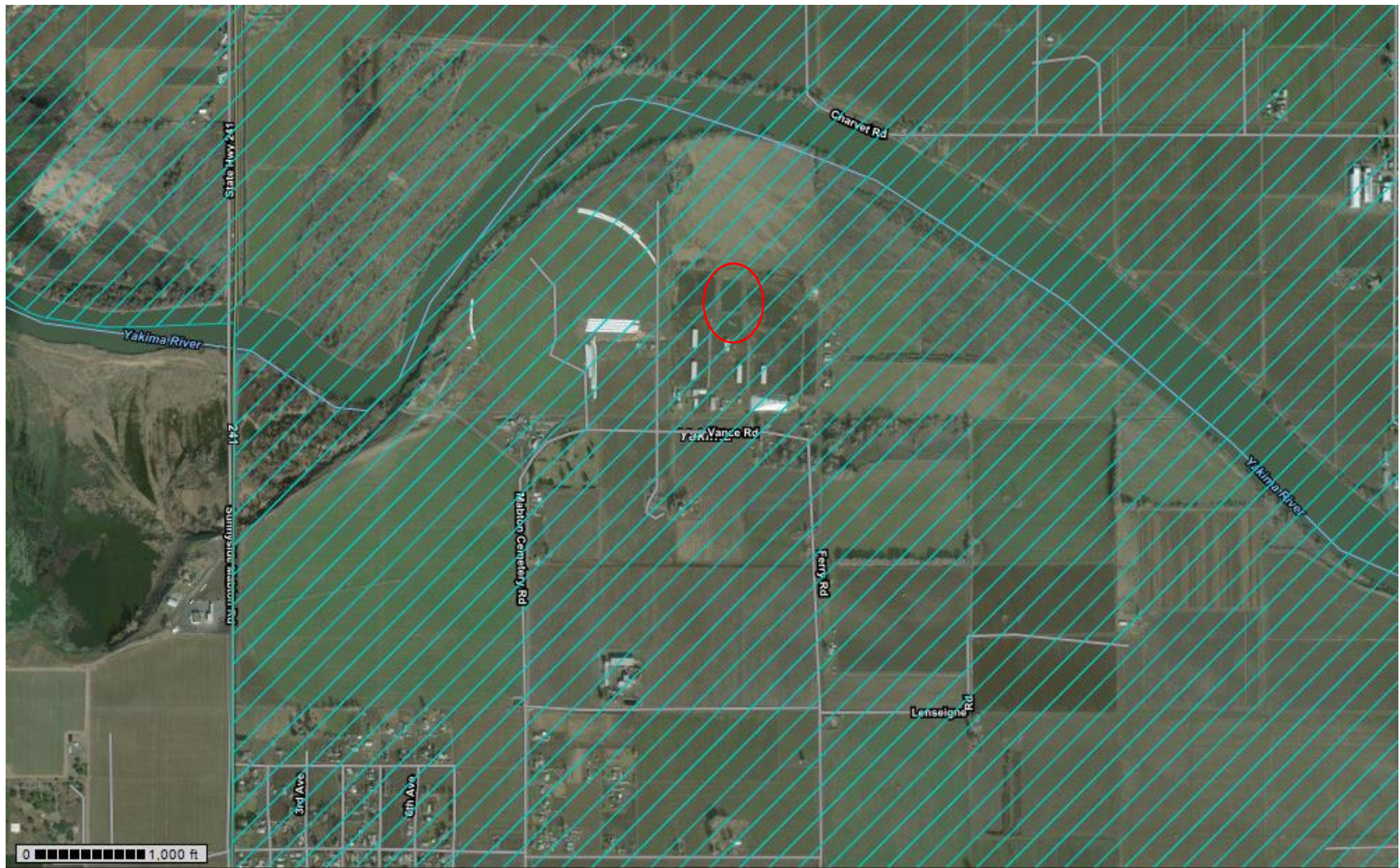
Soil Maps for Riverview Dairy



Google Maps

Distance from manure lagoons to the Yakima River = 1,250 feet

Distance from manure lagoons to nearest home = 500 ft



NRCS Soil Survey

18 = Cleman very fine sandy loam, 0 to 2 percent slopes

32 = Esquatzel silt loam, 0 to 2 percent slopes

34 = Fiander silt loam

57 = Hezel loamy fine sand, 0 to 2 percent slopes

58 = Hezel loamy fine sand, 2 to 15 percent slopes

66 = Kittitas silt loam

95 = Quincy loamy fine sand, 0 to 10 percent slopes

168 - Umapine silt loam, 0 to 5 percent slopes

169 = Umapine silt loam, drained, 0 to 2 percent slopes

170 = Umapine silt loam, drained, 2 to 5 percent slopes

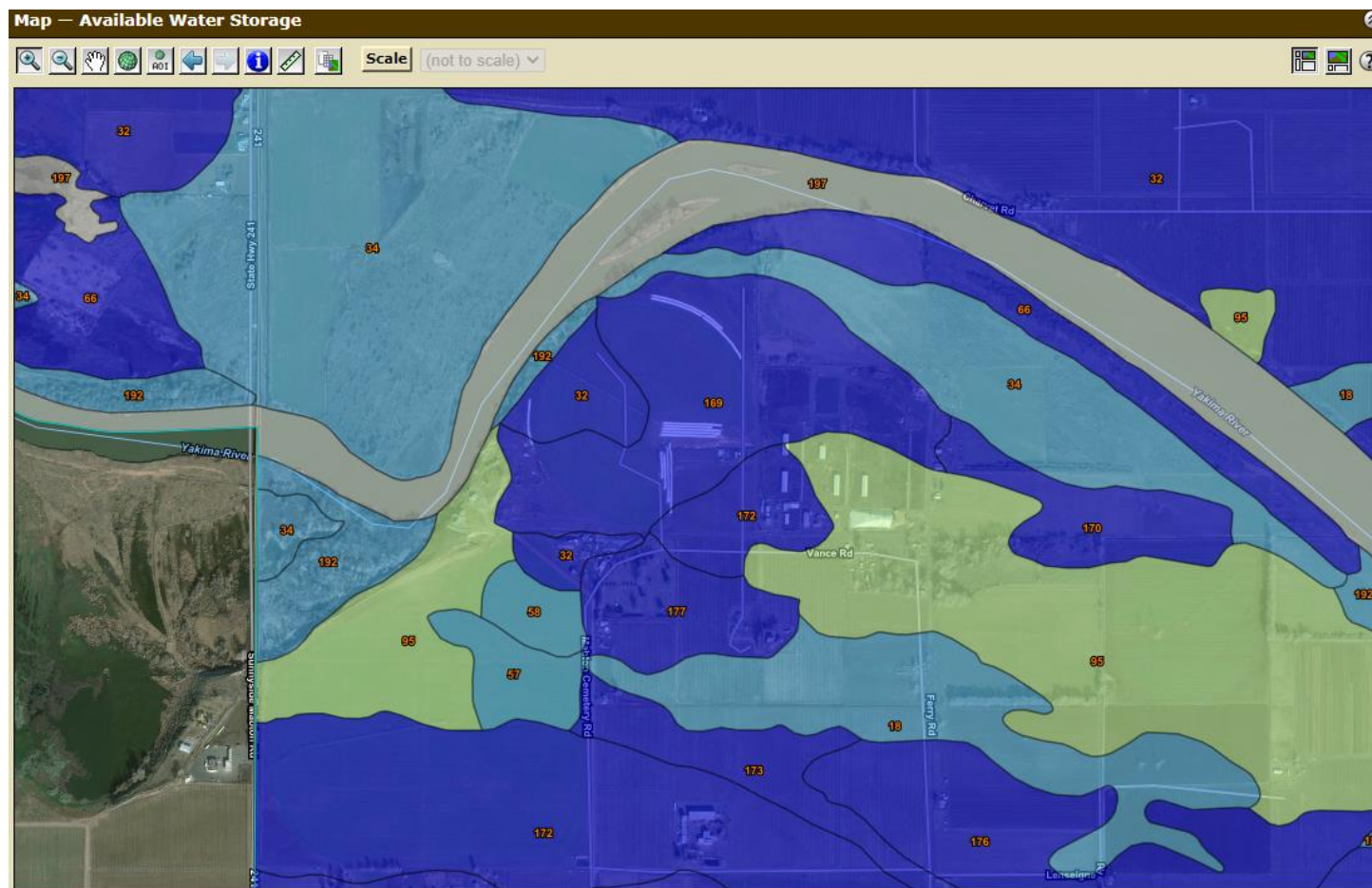
172 = Warden fine sandy loam, 0 to 2 percent slopes

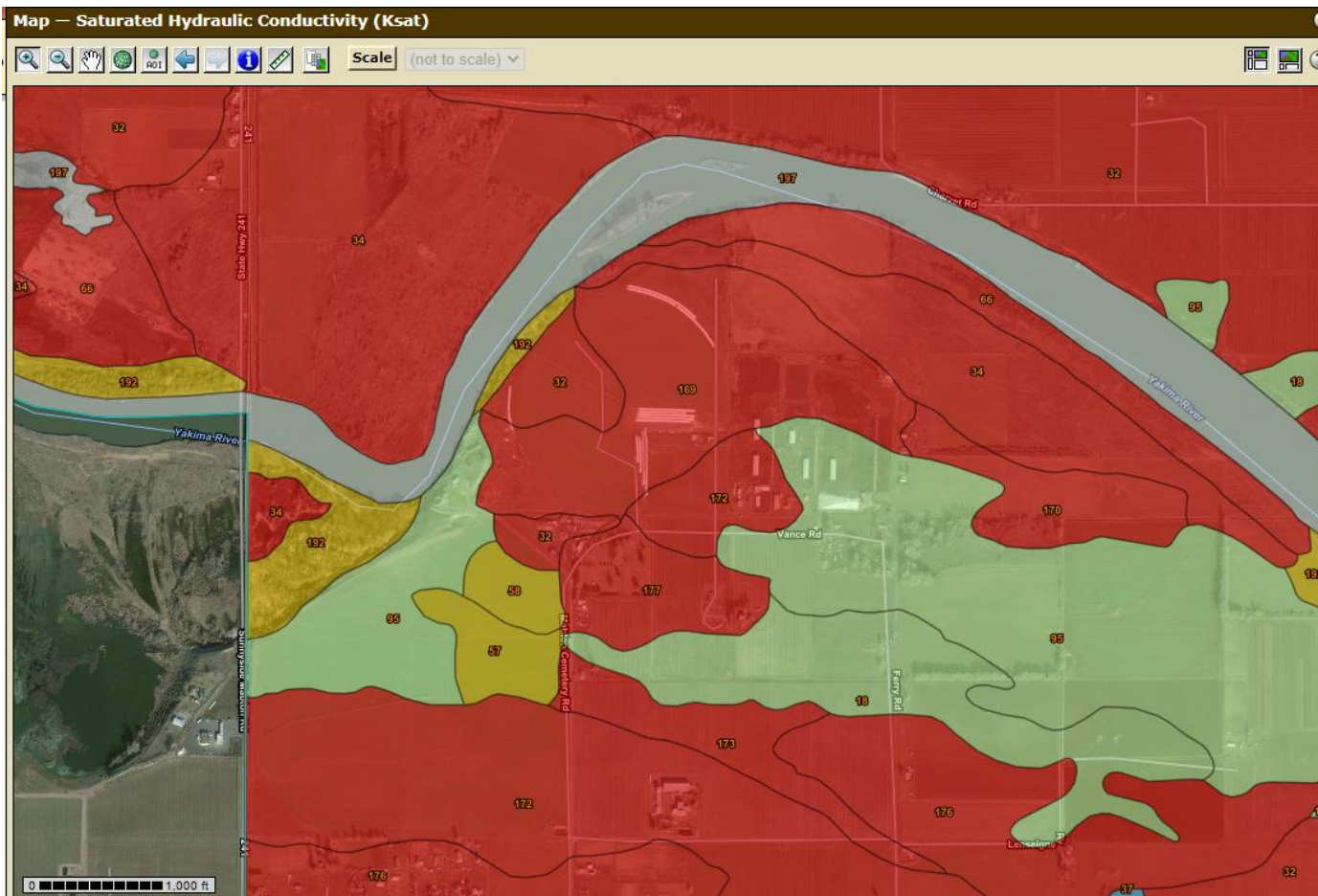
173 = Warden fine sandy loam, 2 to 5 percent slopes

176 = Warden silt loam, 0 to 2 percent slopes

177 = Warden silt loam, 2 to 5 percent slopes

192 = Zillah silt loam





Yakima County Area, Washington

18—Cleman very fine sandy loam, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 29rt
- *Elevation:* 400 to 2,000 feet
- *Mean annual precipitation:* 8 to 12 inches
- *Mean annual air temperature:* 48 to 54 degrees F
- *Frost-free period:* 135 to 200 days
- *Farmland classification:* Prime farmland if irrigated

Map Unit Composition

- *Cleman and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Cleman

Setting

- *Landform:* Alluvial fans, flood plains
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 10 inches:* very fine sandy loam
- *H2 - 10 to 40 inches:* stratified loamy fine sand to silt loam
- *H3 - 40 to 60 inches:* stratified sand to loamy sand

Properties and qualities

- *Slope:* 0 to 2 percent
- *Depth to restrictive feature:* 20 to 40 inches to strongly contrasting textural stratification
- *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:* None
- *Frequency of ponding:* None
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water capacity:* Low (about 5.8 inches)

Interpretive groups

- *Land capability classification (irrigated):* 2e
- *Land capability classification (nonirrigated):* 3e
- *Hydrologic Soil Group:* B

- *Ecological site:* R007XY402WA - LOAMY BOTTOM 6-10 PZ
- *Hydric soil rating:* No

Yakima County Area, Washington

32—Esquatzel silt loam, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 29ss
- *Elevation:* 300 to 2,900 feet
- *Mean annual precipitation:* 6 to 12 inches
- *Mean annual air temperature:* 48 to 54 degrees F
- *Frost-free period:* 130 to 200 days
- *Farmland classification:* Prime farmland if irrigated

Map Unit Composition

- *Esquatzel and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Esquatzel

Setting

- *Landform:* Flood plains
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 17 inches:* silt loam
- *H2 - 17 to 60 inches:* silt loam
- *H3 - 60 to 64 inches:* stratified fine sandy loam to silt loam

Properties and qualities

- *Slope:* 0 to 2 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:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 5 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

- *Available water capacity:* Very high (about 12.6 inches)

Interpretive groups

- *Land capability classification (irrigated):* 2c
- *Land capability classification (nonirrigated):* 3c
- *Hydrologic Soil Group:* B
- *Hydric soil rating:* No

34—Fiander silt loam

Map Unit Setting

- *National map unit symbol:* 29sv
- *Elevation:* 700 to 900 feet
- *Mean annual precipitation:* 6 to 9 inches
- *Mean annual air temperature:* 50 to 52 degrees F
- *Frost-free period:* 130 to 180 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Fiander, drained, and similar soils:* 85 percent
- *Minor components:* 15 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Fiander, Drained

Setting

- *Landform:* Flood plains
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 2 inches:* silt loam
- *H2 - 2 to 25 inches:* silty clay loam
- *H3 - 25 to 50 inches:* silt loam
- *H4 - 50 to 60 inches:* loamy very fine sand

Properties and qualities

- *Slope:* 0 to 3 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Moderately well drained

- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
- *Depth to water table:* About 6 to 36 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 35 percent
- *Gypsum, maximum content:* 5 percent
- *Maximum salinity:* Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
- *Sodium adsorption ratio, maximum:* 15.0
- *Available water capacity:* Moderate (about 8.2 inches)

Interpretive groups

- *Land capability classification (irrigated):* 4w
- *Land capability classification (nonirrigated):* 6s
- *Hydrologic Soil Group:* C/D
- *Ecological site:* R007XY401WA - ALKALI BOTTOM 6-10 PZ
- *Hydric soil rating:* Yes

Minor Components

Toppenish

- *Percent of map unit:* 5 percent
- *Landform:* Depressions
- *Hydric soil rating:* Yes

Kittitas

- *Percent of map unit:* 5 percent
- *Landform:* Flood plains
- *Hydric soil rating:* Yes

Fiander, undrained

- *Percent of map unit:* 5 percent
- *Landform:* Depressions
- *Hydric soil rating:* Yes

57—Hezel loamy fine sand, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 29tn
- *Elevation:* 400 to 2,500 feet
- *Mean annual precipitation:* 6 to 10 inches

- *Mean annual air temperature:* 52 to 54 degrees F
- *Frost-free period:* 150 to 200 days
- *Farmland classification:* Farmland of statewide importance

Map Unit Composition

- *Hezel and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Hezel

Setting

- *Landform:* Terraces
- *Parent material:* Eolian sands over silty lacustrine deposits

Typical profile

- *H1 - 0 to 6 inches:* loamy fine sand
- *H2 - 6 to 22 inches:* loamy fine sand
- *H3 - 22 to 60 inches:* stratified fine sandy loam to silt loam

Properties and qualities

- *Slope:* 0 to 2 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat excessively drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.57 in/hr)
- *Depth to water table:* More than 80 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 20 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water capacity:* Moderate (about 8.7 inches)

Interpretive groups

- *Land capability classification (irrigated):* 3e
- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* C
- *Ecological site:* R007XY502WA - SANDS 6-10 PZ
- *Hydric soil rating:* No

58—Hezel loamy fine sand, 2 to 15 percent slopes

Map Unit Setting

- *National map unit symbol:* 29tp

- *Elevation:* 400 to 2,500 feet
- *Mean annual precipitation:* 6 to 10 inches
- *Mean annual air temperature:* 52 to 54 degrees F
- *Frost-free period:* 150 to 200 days
- *Farmland classification:* Farmland of statewide importance

Map Unit Composition

- *Hezel and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Hezel

Setting

- *Landform:* Terraces
- *Parent material:* Eolian sands over silty lacustrine deposits

Typical profile

- *H1 - 0 to 6 inches:* loamy fine sand
- *H2 - 6 to 22 inches:* loamy fine sand
- *H3 - 22 to 60 inches:* stratified fine sandy loam to silt loam

Properties and qualities

- *Slope:* 2 to 15 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat excessively drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.57 in/hr)
- *Depth to water table:* More than 80 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 20 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water capacity:* Moderate (about 8.7 inches)

Interpretive groups

- *Land capability classification (irrigated):* 4e
- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* C
- *Ecological site:* R007XY502WA - SANDS 6-10 PZ
- *Hydric soil rating:* No

66—Kittitas silt loam

Map Unit Setting

- *National map unit symbol:* 29tz
- *Elevation:* 500 to 1,100 feet
- *Mean annual precipitation:* 6 to 12 inches
- *Mean annual air temperature:* 48 to 52 degrees F
- *Frost-free period:* 130 to 180 days
- *Farmland classification:* Farmland of statewide importance

Map Unit Composition

- *Kittitas and similar soils:* 90 percent
- *Minor components:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Kittitas**Setting**

- *Landform:* Flood plains
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 19 inches:* silt loam
- *H2 - 19 to 41 inches:* silt loam
- *H3 - 41 to 60 inches:* stratified fine sandy loam to silty clay loam

Properties and qualities

- *Slope:* 0 to 2 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat poorly drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.57 in/hr)
- *Depth to water table:* About 0 to 6 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 15 percent
- *Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
- *Available water capacity:* High (about 11.4 inches)

Interpretive groups

- *Land capability classification (irrigated):* 4w
- *Land capability classification (nonirrigated):* 4w
- *Hydrologic Soil Group:* C/D
- *Hydric soil rating:* Yes

Minor Components

Toppenish

- *Percent of map unit:* 5 percent
- *Landform:* Depressions
- *Hydric soil rating:* Yes

Kittitas, undrained

- *Percent of map unit:* 5 percent
- *Landform:* Flood plains
- *Hydric soil rating:* Yes

95—Quincy loamy fine sand, 0 to 10 percent slopes

Map Unit Setting

- *National map unit symbol:* 29w0
- *Elevation:* 200 to 4,500 feet
- *Mean annual precipitation:* 6 to 12 inches
- *Mean annual air temperature:* 46 to 54 degrees F
- *Frost-free period:* 100 to 200 days
- *Farmland classification:* Farmland of statewide importance

Map Unit Composition

- *Quincy and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Quincy

Setting

- *Landform:* Terraces
- *Parent material:* Eolian sands

Typical profile

- *H1 - 0 to 20 inches:* loamy fine sand
- *H2 - 20 to 60 inches:* sand

Properties and qualities

- *Slope:* 0 to 10 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Excessively drained
- *Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)
- *Depth to water table:* More than 80 inches

- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 3 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water capacity:* Moderate (about 6.2 inches)

Interpretive groups

- *Land capability classification (irrigated):* 3s
- *Land capability classification (nonirrigated):* 4e
- *Hydrologic Soil Group:* A
- *Hydric soil rating:* No

168—Umapine silt loam, 0 to 5 percent slopes

Map Unit Setting

- *National map unit symbol:* 29rd
- *Elevation:* 250 to 3,500 feet
- *Mean annual precipitation:* 6 to 12 inches
- *Mean annual air temperature:* 48 to 50 degrees F
- *Frost-free period:* 110 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Umapine and similar soils:* 95 percent
- *Minor components:* 5 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Umapine

Setting

- *Landform:* Flood plains, terraces
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 7 inches:* silt loam
- *H2 - 7 to 60 inches:* silt loam

Properties and qualities

- *Slope:* 0 to 5 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat poorly 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:* About 6 to 42 inches
- *Frequency of flooding:* Occasional, None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 30 percent
- *Maximum salinity:* Slightly saline to moderately saline (4.0 to 8.0 mmhos/cm)
- *Sodium adsorption ratio, maximum:* 20.0
- *Available water capacity:* High (about 11.9 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 6s
- *Hydrologic Soil Group:* C
- *Ecological site:* R007XY401WA - ALKALI BOTTOM 6-10 PZ
- *Hydric soil rating:* No

Minor Components

Toppenish

- *Percent of map unit:* 5 percent
- *Landform:* Depressions
- *Hydric soil rating:* Yes

169—Umapine silt loam, drained, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 29rf
- *Elevation:* 250 to 3,500 feet
- *Mean annual precipitation:* 6 to 12 inches
- *Mean annual air temperature:* 48 to 50 degrees F
- *Frost-free period:* 130 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Umapine, drained, and similar soils:* 90 percent
- *Minor components:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Umapine, Drained

Setting

- *Landform:* Flood plains, terraces
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 7 inches: silt loam*
- *H2 - 7 to 60 inches: silt loam*

Properties and qualities

- *Slope: 0 to 2 percent*
- *Depth to restrictive feature: More than 80 inches*
- *Drainage class: Somewhat poorly 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: About 24 to 48 inches*
- *Frequency of flooding: None*
- *Frequency of ponding: None*
- *Calcium carbonate, maximum content: 30 percent*
- *Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)*
- *Sodium adsorption ratio, maximum: 20.0*
- *Available water capacity: High (about 11.9 inches)*

Interpretive groups

- *Land capability classification (irrigated): 4s*
- *Land capability classification (nonirrigated): 6s*
- *Hydrologic Soil Group: C*
- *Hydric soil rating: No*

Minor Components**Toppenish**

- *Percent of map unit: 5 percent*
- *Landform: Depressions*
- *Hydric soil rating: Yes*

Kittitas

- *Percent of map unit: 5 percent*
- *Landform: Flood plains*
- *Hydric soil rating: Yes*

170—Umapine silt loam, drained, 2 to 5 percent slopes**Map Unit Setting**

- *National map unit symbol: 29rh*
- *Elevation: 250 to 3,500 feet*
- *Mean annual precipitation: 6 to 12 inches*

- *Mean annual air temperature:* 48 to 50 degrees F
- *Frost-free period:* 130 to 195 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Umapine, drained, and similar soils:* 95 percent
- *Minor components:* 5 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Umapine, Drained

Setting

- *Landform:* Flood plains, terraces
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 7 inches:* silt loam
- *H2 - 7 to 60 inches:* silt loam

Properties and qualities

- *Slope:* 2 to 5 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Somewhat poorly 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:* About 24 to 48 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 30 percent
- *Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
- *Sodium adsorption ratio, maximum:* 20.0
- *Available water capacity:* High (about 11.9 inches)

Interpretive groups

- *Land capability classification (irrigated):* 4s
- *Land capability classification (nonirrigated):* 6s
- *Hydrologic Soil Group:* C
- *Hydric soil rating:* No

Minor Components

Toppenish

- *Percent of map unit:* 5 percent

- *Landform:* Depressions
- *Hydric soil rating:* Yes

172—Warden fine sandy loam, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 29rk
- *Elevation:* 600 to 1,300 feet
- *Mean annual precipitation:* 6 to 9 inches
- *Mean annual air temperature:* 48 to 52 degrees F
- *Frost-free period:* 135 to 200 days
- *Farmland classification:* Prime farmland if irrigated

Map Unit Composition

- *Warden and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Warden

Setting

- *Landform:* Terraces
- *Parent material:* Loess over lacustrine deposits

Typical profile

- *H1 - 0 to 5 inches:* fine sandy loam
- *H2 - 5 to 19 inches:* very fine sandy loam
- *H3 - 19 to 60 inches:* stratified very fine sandy loam to silt loam

Properties and qualities

- *Slope:* 0 to 2 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:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 30 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water capacity:* High (about 11.4 inches)

Interpretive groups

- *Land capability classification (irrigated):* 2e

- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* B
- *Ecological site:* R007XY501WA - SANDY 6-10 PZ
- *Hydric soil rating:* No

173—Warden fine sandy loam, 2 to 5 percent slopes

Map Unit Setting

- *National map unit symbol:* 29rl
- *Elevation:* 600 to 1,300 feet
- *Mean annual precipitation:* 6 to 9 inches
- *Mean annual air temperature:* 48 to 52 degrees F
- *Frost-free period:* 135 to 200 days
- *Farmland classification:* Farmland of statewide importance

Map Unit Composition

- *Warden and similar soils:* 95 percent
- *Minor components:* 5 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Warden

Setting

- *Landform:* Terraces
- *Parent material:* Loess over lacustrine deposits

Typical profile

- *H1 - 0 to 5 inches:* fine sandy loam
- *H2 - 5 to 19 inches:* very fine sandy loam
- *H3 - 19 to 60 inches:* stratified very fine sandy loam to silt loam

Properties and qualities

- *Slope:* 2 to 5 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:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 30 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

- *Available water capacity:* High (about 11.4 inches)

Interpretive groups

- *Land capability classification (irrigated):* 2e
- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* B
- *Ecological site:* R007XY501WA - SANDY 6-10 PZ
- *Hydric soil rating:* No

Minor Components

Outlook

- *Percent of map unit:* 5 percent
- *Landform:* Alluvial cones
- *Hydric soil rating:* Yes

176—Warden silt loam, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 29rp
- *Elevation:* 600 to 1,300 feet
- *Mean annual precipitation:* 6 to 9 inches
- *Mean annual air temperature:* 48 to 52 degrees F
- *Frost-free period:* 135 to 200 days
- *Farmland classification:* Prime farmland if irrigated

Map Unit Composition

- *Warden and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Warden

Setting

- *Landform:* Terraces
- *Parent material:* Loess over lacustrine deposits

Typical profile

- *H1 - 0 to 5 inches:* silt loam
- *H2 - 5 to 19 inches:* silt loam
- *H3 - 19 to 60 inches:* stratified very fine sandy loam to silt loam

Properties and qualities

- *Slope:* 0 to 2 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:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 5 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water capacity:* High (about 11.7 inches)

Interpretive groups

- *Land capability classification (irrigated):* 2c
- *Land capability classification (nonirrigated):* 6c
- *Hydrologic Soil Group:* B
- *Ecological site:* R007XY102WA - LOAMY 6-10 PZ
- *Hydric soil rating:* No

177—Warden silt loam, 2 to 5 percent slopes

Map Unit Setting

- *National map unit symbol:* 29rq
- *Elevation:* 600 to 1,300 feet
- *Mean annual precipitation:* 6 to 9 inches
- *Mean annual air temperature:* 48 to 52 degrees F
- *Frost-free period:* 135 to 200 days
- *Farmland classification:* Farmland of statewide importance

Map Unit Composition

- *Warden and similar soils:* 100 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Warden

Setting

- *Landform:* Terraces
- *Parent material:* Loess over lacustrine deposits

Typical profile

- *H1 - 0 to 5 inches:* silt loam
- *H2 - 5 to 19 inches:* silt loam
- *H3 - 19 to 60 inches:* stratified very fine sandy loam to silt loam

Properties and qualities

- *Slope:* 2 to 5 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:* None
- *Frequency of ponding:* None
- *Calcium carbonate, maximum content:* 5 percent
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water capacity:* High (about 11.7 inches)

Interpretive groups

- *Land capability classification (irrigated):* 2e
- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* B
- *Ecological site:* R007XY102WA - LOAMY 6-10 PZ
- *Hydric soil rating:* No

192—Zillah silt loam**Map Unit Setting**

- *National map unit symbol:* 29s8
- *Elevation:* 600 to 1,000 feet
- *Mean annual precipitation:* 6 to 9 inches
- *Mean annual air temperature:* 46 to 50 degrees F
- *Frost-free period:* 130 to 180 days
- *Farmland classification:* Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Map Unit Composition

- *Zillah and similar soils:* 98 percent
- *Minor components:* 2 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Zillah**Setting**

- *Landform:* Flood plains
- *Parent material:* Alluvium

Typical profile

- *H1 - 0 to 12 inches: silt loam*
- *H2 - 12 to 42 inches: silt loam*
- *H3 - 42 to 60 inches: loamy sand*

Properties and qualities

- *Slope: 0 to 2 percent*
- *Depth to restrictive feature: 40 to 60 inches to strongly contrasting textural stratification*
- *Drainage class: Somewhat poorly 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: About 24 to 48 inches*
- *Frequency of flooding: None*
- *Frequency of ponding: None*
- *Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*
- *Available water capacity: Moderate (about 8.4 inches)*

Interpretive groups

- *Land capability classification (irrigated): 2w*
- *Land capability classification (nonirrigated): 6e*
- *Hydrologic Soil Group: C*
- *Hydric soil rating: No*

Minor Components**Toppenish**

- *Percent of map unit: 1 percent*
- *Landform: Depressions*
- *Hydric soil rating: Yes*

Weirman

- *Percent of map unit: 1 percent*
- *Landform: Alluvial cones*
- *Hydric soil rating: Yes*