

# **Prime Farmland List for Oregon**

**March 2015**

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### **OREGON PRIME FARMLAND**

NRCS Oregon has completed the review of the State prime farmland list. The current list is dated March 2015. The list replaces the previous State list dated May 2007. The 2015 list has not changed significantly since the 2007 list. Fifteen map units were removed from the 2007 list and seventeen map units were added to the list due primarily to the revised soil mapping in Yamhill County. The 2015 State list is current with all prime farmland reports as generated for soil surveys available via Web Soil Survey 2015.

## Farmland Classification

### **(a) Definition**

The farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or farmland of unique importance.

### **(b) Significance**

Farmland classification identifies the location and extent of the most suitable land for producing food, feed, fiber, forage, and oilseed crops. This identification is useful in the management and maintenance of the resource base that supports the productive capacity of American agriculture.

### **(c) Measurement**

NRCS policy and procedures on prime and unique farmlands are published in the Code of Federal Regulations 7CFR657. This regulation is reproduced in Exhibit 622-1 for convenience. The website is: [http://www.access.gpo.gov/nara/cfr/waisidx\\_99/7cfr657\\_99.html](http://www.access.gpo.gov/nara/cfr/waisidx_99/7cfr657_99.html).

### **(d) Entries**

Enter the numerical code for the classification of each map unit. Soils of unique, statewide, or local importance are not prime farmland. Allowable entries are numerical codes as follows:

- 1 - All areas are prime farmland.
- 2 - Prime farmland if drained.
- 3 - Prime farmland if protected from flooding or not frequently flooded during the growing season.
- 4 - Prime farmland if irrigated.
- 5 - Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season.
- 6 - Prime farmland if irrigated and drained.
- 7 - Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season.
- 8 - Prime farmland if subsoiled, completely removing the root inhibiting soil layer.
- 9 - Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60.
- 10- Prime farmland if irrigated and reclaimed of excess salts and sodium.

## **Prime Farmland Soils**

### **(a) Definition**

Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and that is available for these uses. It has the combination of soil properties, growing season, and moisture supply needed to produce sustained high yields of crops in an economic manner if it is treated and managed according to acceptable farming methods. In general, prime farmland has an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, an acceptable level of acidity or alkalinity, an acceptable content of salt or sodium, and few or no rocks. Its soils are permeable to water and air. Prime farmland is not excessively eroded or saturated with water for long periods of time, and it either does not flood frequently during the growing season or is protected from flooding. Users of the lists of prime farmland map units should recognize that soil properties are only one of several criteria that are necessary. Other considerations include:

#### **(1) Land use**

Prime farmland is designated independently of current land use, but it cannot be areas of water or urban or built-up land as defined for the National Resource Inventories. Map units that are complexes or associations containing components of urban land or miscellaneous areas as part of the map unit name cannot be designated as prime farmland. The soil survey memorandum of understanding determines the scale of mapping and should reflect local land use interests in designing of map units.

#### **(2) Frequency of flooding**

Some map units may include both prime farmland and land not prime farmland because of variations in flooding frequency.

#### **(3) Irrigation**

Some map units include areas that have a developed irrigation water supply that is dependable and of adequate quality and areas that do not have such a supply. In these units, only the irrigated areas meet the prime farmland criteria.

#### **(4) Water table**

Some map units include both drained and undrained areas. Only the drained areas meet the prime farmland criteria.

#### **(5) Wind erodibility**

The product of I (soil erodibility) x C (climate factor) cannot exceed 60 to meet prime farmland criteria. A map unit may be considered prime farmland in one part of a survey area but not in another where the climate factor is different.

#### **(b) Purpose**

The Natural Resources Conservation Service (NRCS) is committed to the management and maintenance of the resource base that supports the productive capacity of American agriculture. This management and maintenance includes identifying of the location and extent of the most suitable land for producing food, feed, fiber, forage, and oilseed crops. Prime farmland information may be supplemented with separate designations of soil map units that have state-wide, local, or unique importance as farmland capable of producing these crops.

#### **(c) Code of Federal Regulations**

NRCS policy and procedures on prime and unique farmlands are published in the Code of Federal Regulations 7CFR657. The content is reproduced in [Exhibit 622-1](#) for convenience. The website is: [http://www.access.gpo.gov/nara/cfr/waisidx/99/7cfr657\\_99.html](http://www.access.gpo.gov/nara/cfr/waisidx/99/7cfr657_99.html).

#### **Final Rule, Prime and Unique Farmlands (Exhibit 622-1)**

Federal Register, Volume 43, No.21, January 31, 1978.

The Code of Federal Regulations for title 7 part 657 are maintained at the following website: <http://www.gpoaccess.gov/cfr/index.html>. The January 1, 1999 version was amended on September 25, 2000 with the changes published in the Federal Register as follows: [Federal Register: September 25, 2000 (Volume 65, Number 186)]

(Rules and Regulations]

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## TITLE 7--AGRICULTURE

### DEPARTMENT OF AGRICULTURE

#### PART 657--PRIME AND UNIQUE FARMLANDS--Table of Contents

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#### **657.1 -- Purpose.**

NRCS is concerned about any action that tends to impair the productive capacity of American agriculture. The Nation needs to know the extent and location of the best land for producing food, feed, fiber forage, and oilseed crops. In addition to prime and unique farmlands, farmlands that are of statewide and local importance for producing these crops also need to be identified

#### **657.2 -- Policy.**

It is NRCS policy to make and keep current an inventory of the prime farmland and unique farmland of the Nation. This inventory is to be carried out in cooperation with other interested agencies at the national, state, and local levels of government. The objective of the inventory is to identify the extent and location of important rural lands needed to produce food, feed, fiber, forage, and oilseed crops.

#### **657.3 -- Applicability.**

Inventories made under this memorandum do not constitute a designation of any land area to a specific land use. Such designations are the responsibility of appropriate local and state officials.

#### **657.4 -- NRCS Responsibilities.**

##### **(a) State Conservationist.**

Each NRCS state conservationist is to:

(1) Provide leadership for inventories of important farmlands for the state, county, or other subdivision of the state. Each is to work with the appropriate agencies of the state government and others to establish priorities for making these inventories.

(2) Identify the soil mapping units within the state that qualify as prime. In doing this, State Conservationists, in consultation with the cooperators of the National Cooperative Soil Survey, have the flexibility to make local deviation from the permeability criterion or to be more restrictive for other specific criteria in order to assure the most accurate identification of prime farmlands for a state. Each is to invite representatives of the governor's office, agencies of the state government, and others to identify farmlands of statewide importance and unique farmlands that are to be inventoried within the framework of this memorandum.

(3) Prepare a statewide list of:

(i) Soil mapping units that meet the criteria for prime farmland;

(ii) Soil mapping units that are farmlands of statewide importance if the criteria used were based on soil information; and

(iii) Specific high-value food and fiber crops that are grown and, when combined with other favorable factors, qualify lands as unique farmlands.

Copies are to be furnished to NRCS field offices and to the National Soil Survey Center. (See 7 CFR 600.2(c), 600.6.)

(4) Coordinate soil mapping units that qualify as prime farmlands with adjacent states, including Major Land Resource Area Offices (see 7 CFR 600.4, 600.7) responsible for the soil series. Since farmlands of statewide importance and unique farmlands are designated by others at the state level, the soil mapping units and areas identified need not be coordinated among states.

(5) Instruct NRCS district conservationists to arrange local review of lands identified as prime, unique, and additional farmlands of statewide importance by conservation districts and representatives of local agencies. This review is to determine if additional farmland should be identified to meet local decision making needs.

(6) Make and publish each important farmland inventory on a base map of national map accuracy at an intermediate scale of 1:50,000 or 1:100,000. State Conservationists who need base maps of other scales are to submit their requests with justification to the Chief for consideration.

## **657.5 Identification of important farmlands.**

### **(a) Prime farmlands.**

(1) General. Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops, and is also available for these uses (the Land could be cropland, pastureland, rangeland, forest land, or other land, but not urban built-up land or water). It has the soil quality, growing season, and moisture supply needed to economically produce sustained high yields of crops when treated and managed, including water management, according to acceptable farming methods. In general, prime farmlands have an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, acceptable salt and sodium content, and few or no rocks. They are permeable to water and air. Prime farmlands are not excessively erodible or saturated with water for a long period of time, and they either do not flood frequently or are protected from flooding. Examples of soils that qualify as prime farmland are Palouse silt loam, 0 to 7 percent slopes; Brookston silty clay loam, drained; and Tama silty clay loam, 0 to 5 percent slopes.

(2) Specific criteria. Prime farmlands meet all the following criteria: Terms used in this section are defined in USDA publications: "Soil Taxonomy, Agriculture Handbook 436"; "Soil Survey Manual, Agriculture Handbook 18"; "Rainfall-erosion Losses From Cropland, Agriculture Handbook 282; "Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss, Agriculture Handbook 346"; and "Saline and Alkali Soils, Agriculture Handbook 60."

(i) The soils have:

(a) Aquic, udic, ustic, or xeric moisture regimes and sufficient available water capacity within a depth of 40 Inches (1 meter), or in the root zone (root zone is the part of the soil that is penetrated or can be penetrated by plant roots) if the root zone is less than 40 inches deep, to produce the commonly grown cultivated crops (cultivated crops include, but are not limited to, grain, forage, fiber, oilseed, sugar beets, sugarcane, vegetables, tobacco, orchard, vineyard, and bush fruit crops) adapted to the region in 7 or more years out of 10; or

(b) Xeric or ustic moisture regimes in which the available water capacity is limited, but the area has a developed irrigation water supply that is dependable (a dependable water supply is one in which enough water is available for irrigation in 8 out of 10 years for the crops commonly grown) and of adequate quality; or,

(c) Aridic or torric moisture regimes, and the area has a developed irrigation water supply that is dependable and of adequate quality; and,

(ii) The soils have a temperature regime that is frigid, mesic, thermic, or hyperthermic (pergelic and cryic regimes are excluded). These are soils that, at a depth of 20 inches (50 cm), have a mean annual temperature higher than 32 deg. F (0 deg. C. In addition, the mean summer temperature at this depth in soils with an O horizon is higher than 47 deg. F (8 deg. C); in soils that have no O horizon, the mean summer temperature is higher than 59 deg. F (15 deg. C); and,

(iii) The soils have a pH between 4.5 and 8.4 in all horizons within a depth of 40 inches (1 meter) or in the root zone if the root zone is less than 40 inches deep; and,

(iv) The soils either have no water table or have a water table that is maintained at a sufficient depth during the cropping season to allow cultivated crops common to the area to be grown; and,

(v) The soils can be managed so that, in all horizons within a depth of 40 inches (1 meter) or in the root zone if the root zone is less than 40 inches deep, during part of each year the conductivity of the saturation extract is less than 4 mmhos/cm and the exchangeable sodium percentage (ESP) is less than 15; and,

(vi) The soils are not flooded frequently during the growing season (less often than once in 2 years); (*thus—if the soil is occasionally flooded, protection from flooding is not required for prime farmland designation*), and,

(vii) The product of K (erodibility factor) x percent slope is less than 2.0, and the product of I (soils erodibility) x C (climatic factor) does not exceed 60; and

(viii) The soils have a permeability rate of at least 0.06 inch (0.15 cm) per hour in the upper 20 inches (50 cm) and the mean annual soil temperature at a depth of 20 inches (50 cm) is less than 59 deg. F (15 deg. C); the permeability rate is not a limiting factor if the mean annual soil temperature is 59 deg. F (15 deg. C) or higher; and,

(ix) Less than 10 percent of the surface layer (upper 6 inches) in these soils consists of rock fragments coarser than 3 inches (7.6 cm).

**NRCS-Oregon has established one state criterion for prime farmland designation. The criterion sets a minimum of 70 consecutive days or more of a frost-free period.**

**Consequently, if a soil map unit meets all of the national criteria as listed above but has a frost-free period of less than 70 days, the map unit is not designated as prime farmland.**

**Example: frost-free period range; 70 to 100 days = prime**

**frost-free period range; 50 to 90 days = not prime**

**Also, the "dominant condition" is used to determine Prime for each map unit.**

**If the map unit contains a miscellaneous major component, the map unit is not designated prime.**

**If the map unit contains a major component in land capability class 6, 7, or 8, the map unit is not designated prime.**

### **Prime Farmland Codes**

- 1 - All areas are prime farmland.
- 2 - Prime farmland if drained.
- 3 - Prime farmland if protected from flooding or not frequently flooded during the growing season.
- 4 - Prime farmland if irrigated.
- 5 - Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season.
- 6 - Prime farmland if irrigated and drained.
- 7 - Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season.
- 8- Prime farmland if subsoiled, completely removing the root inhibiting soil layer.
- 9 - Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60.
- 10- Prime farmland if irrigated and reclaimed of excess salts and sodium.

The following list is a composite listing of prime farmland map units in Oregon as stored in Web Soil Survey on March 1, 2015. NOTE: Map units designated as prime farmland are not available via Web Soil Survey for the map units in the Grant County, Central, soil survey, but they are contained in the composite list. The survey areas are as follows.

Alsea Area	Lincoln County Area
Baker County Area	Linn County Area
Benton County	Malheur County, Northeast
Clackamas County Area	Marion County Area
Clatsop County	Morrow County
Columbia County	Multnomah County
Coos County	Polk County
Crater Lake National Park	Prineville Area
Curry County	Sherman County
Douglas County Area	Tillamook County
Gilliam County	Trout Creek-Shaniko Area
Grant County, Central	Umatilla County Area
Harney County Area	Union County Area
Hood River County Area	Upper Deschutes River Area
Jackson County Area	Wallowa County Area
Josephine County	Wallowa-Whitman National Forest
Klamath County, South	Warm Springs Indian Reservation
Lake County, North	Wasco County, North
Lake County, South	Washington County
Lane County Area	Yamhill County

Mapunit_Name	Prime Farmland Code
Abegg gravelly loam, 2 to 7 percent slopes	4
Abegg gravelly loam, 7 to 12 percent slopes	4
Abegg very gravelly sandy loam, 2 to 12 percent slopes	4
Abin silty clay loam, 0 to 3 percent slopes	1
Abiqua silty clay loam, 0 to 3 percent slopes	1
Abiqua silty clay loam, 3 to 5 percent slopes	1
Abiqua silty clay loam, occasionally flooded, 0 to 3 percent slopes	1
Abiqua silty clay loam, rarely flooded, 0 to 3 percent slopes	1
Abiqua silty clay loam, high precipitation, 0 to 3 percent slopes	1
Abiqua silty clay loam, high precipitation, 3 to 5 percent slopes	1
Adkins fine sandy loam, 0 to 5 percent slopes	4
Adkins fine sandy loam, gravelly substratum, 0 to 5 percent slopes	4
Agency loam, 0 to 3 percent slopes	4
Agency loam, 3 to 8 percent slopes	4
Agency sandy loam, 0 to 3 percent slopes	4
Agency-Madras complex, 0 to 8 percent slopes	4
Alicel fine sandy loam, 1 to 5 percent slopes	1
Alicel loam, 1 to 5 percent slopes	1
Aloha silt loam	2
Aloha silt loam, 0 to 3 percent slopes	2
Aloha silt loam, 3 to 6 percent slopes	2
Aloha silt loam, 3 to 8 percent slopes	2
Aloha variant silt loam	2
Alsea loam, 0 to 5 percent slopes	1
Alsea loam, rarely flooded, 0 to 3 percent slopes	1
Alspaugh clay loam, 2 to 8 percent slopes	1
Amity silt loam	2
Amity silt loam, 0 to 3 percent slopes	2
Anderly silt loam, 1 to 7 percent slopes	4
Anders very fine sandy loam, 3 to 7 percent slopes	4
Applegate silt loam, 2 to 7 percent slopes	4
Athena silt loam, 1 to 7 percent slopes	1
Baker silt loam, 0 to 2 percent slopes	4
Baker silt loam, 0 to 2 percent slopes, warm	4
Baker silt loam, 2 to 7 percent slopes	4
Baker silt loam, 2 to 7 percent slopes, warm	4
Baldock silt loam	6
Baldock silt loam, 0 to 2 percent slopes	6
Balm loam, 0 to 3 percent slopes	6
Balm-Catherine complex, 0 to 3 percent slopes	6
Banning loam	1
Banning loam, 0 to 3 percent slopes	1
Banning loam, 3 to 12 percent slopes	1
Barhiskey gravelly loamy sand, 0 to 3 percent slopes	4
Barhiskey variant gravelly loamy sand, 0 to 3 percent slopes	6
Barnard silt loam, 2 to 7 percent slopes	4

Barron coarse sandy loam, 0 to 7 percent slopes	4
Barron coarse sandy loam, 2 to 7 percent slopes	4
Bellpine clay loam, 3 to 12 percent slopes	1
Bellpine silt loam, 3 to 12 percent slopes	1
Bellpine silty clay loam, 3 to 12 percent slopes	1
Bellpine-Jory complex, 2 to 12 percent slopes	1
Bornstedt silt loam, 0 to 8 percent slopes	1
Boyce silt loam, 0 to 2 percent slopes	6
Boyce silty clay loam	6
Briedwell gravelly loam, 0 to 7 percent slopes	1
Briedwell silt loam, 0 to 3 percent slopes	1
Briedwell silt loam, 0 to 7 percent slopes	1
Briedwell silt loam, 0 to 3 percent slopes, low terrace	1
Buckbert ashy sandy loam, 0 to 3 percent slopes	4
Buckbert sandy loam, 0 to 3 percent slopes	4
Bully silt loam	4
Burke silt loam, 1 to 7 percent slopes	4
Burlington fine sandy loam, 0 to 8 percent slopes	1
Calimus fine sandy loam, 0 to 2 percent slopes	4
Calimus fine sandy loam, 2 to 5 percent slopes	4
Calimus loam, 0 to 2 percent slopes	4
Calimus loam, 2 to 5 percent slopes	4
Calimus silt loam, 0 to 5 percent slopes	4
Canderly sandy loam, 0 to 3 percent slopes	4
Canderly sandy loam, 3 to 8 percent slopes	4
Cantala silt loam, 1 to 7 percent slopes	4
Capona loam, 0 to 2 percent slopes	4
Capona loam, 2 to 5 percent slopes	4
Carlton silt loam, 0 to 7 percent slopes	1
Cascade silt loam, 3 to 7 percent slopes	2
Cascade silt loam, 3 to 8 percent slopes	2
Catherine silt loam	4
Catherine silt loam, 0 to 2 percent slopes	4
Catherine silty clay loam	4
Cencove fine sandy loam, 0 to 2 percent slopes	4
Cencove fine sandy loam, 2 to 5 percent slopes	4
Cencove fine sandy loam, 5 to 8 percent slopes	4
Central Point loam, 0 to 3 percent slopes	1
Central Point sandy loam	1
Central Point sandy loam, 0 to 3 percent slopes	1
Chapman loam	1
Chapman loam, 0 to 3 percent slopes	1
Chapman loam, high precipitation, 0 to 3 percent slopes	1
Chapman-Chehalis complex, 0 to 3 percent slopes	1
Chehalem silty clay loam, 0 to 3 percent slopes	2
Chehalem silty clay loam, 0 to 3 percent slopes, occasionally flooded	2
Chehalem silty clay loam, sedimentary, 0 to 3 percent slopes	2
Chehalem silty clay loam, volcanic, 0 to 3 percent slopes	2

Chehalis silt loam	1
Chehalis silt loam, 0 to 3 percent slopes	1
Chehalis silt loam, high precipitation, 0 to 3 percent slopes	1
Chehalis silt loam, occasional overflow	1
Chehalis silty clay loam	1
Chehalis silty clay loam, 0 to 3 percent slopes	1
Chehalis silty clay loam, occasional overflow	1
Chehalis silty clay loam, occasionally flooded	1
Chenoweth loam, 1 to 7 percent slopes	4
Cherryhill silt loam, 1 to 7 percent slopes	4
Chesnimnus gravelly loam, 0 to 3 percent slopes	4
Chesnimnus silt loam, 0 to 3 percent slopes	4
Cheval silt loam, 0 to 2 percent slopes	6
Chilcott silt loam, 2 to 5 percent slopes	4
Clackamas gravelly loam	2
Clackamas gravelly silt loam	2
Clackamas silt loam	2
Clackamas variant silt loam	1
Clawson sandy loam, 0 to 3 percent slopes	2
Clawson sandy loam, 2 to 5 percent slopes	2
Clawson sandy loam, 2 to 7 percent slopes	2
Clinefalls sandy loam, 0 to 3 percent slopes	4
Cloquato silt loam	1
Cloquato silt loam, 0 to 3 percent slopes	1
Cloquato silt loam, high precipitation, 0 to 3 percent slopes	1
Clovkamp loamy sand, 0 to 3 percent slopes	4
Clovkamp loamy sand, bedrock substratum, 0 to 3 percent slopes	4
Coburg complex, rarely and occasionally flooded, 0 to 3 percent	1
Coburg silty clay loam	1
Coburg silty clay loam, 0 to 3 percent slopes	1
Coburg silty clay loam, 0 to 5 percent slopes	1
Coburg silty clay loam, flooded, 0 to 3 percent slopes	1
Coburg silty clay loam, occasionally flooded	1
Coburg silty clay loam, rarely flooded, 0 to 3 percent slopes	1
Coleman loam, 0 to 7 percent slopes	2
Condon and Valby silt loams, 1 to 7 percent slopes	4
Condon silt loam, 1 to 7 percent slopes	4
Conley silty clay loam, 0 to 2 percent slopes	6
Conley silty clay loam, 2 to 5 percent slopes	6
Conley silty clay loam, 2 to 8 percent slopes	6
Cornelius and Kinton silt loams, 2 to 7 percent slopes	1
Cornelius silt loam, 3 to 8 percent slopes	1
Cornelius variant silt loam, 0 to 3 percent slopes	1
Cottrell silty clay loam, 2 to 12 percent slopes	1
Cottrell silty clay loam, 2 to 8 percent slopes	1
Coughanour silt loam, 0 to 2 percent slopes	4
Coughanour silt loam, 2 to 7 percent slopes	4
Court gravelly ashy sandy loam, 1 to 8 percent slopes	4

Court sandy loam, 1 to 8 percent slopes	4
Courtrock loam, 2 to 7 percent slopes	4
Crump muck, 0 to 1 percent slopes	6
Crump silty clay loam, drained, 0 to 1 percent slopes	4
Crump-Ozamis complex, drained, 0 to 1 percent slopes	4
Culbertson loam, 0 to 8 percent slopes	1
Cumulic Haploxerolls, 0 to 2 percent slopes *1	4
Darow silty clay loam, 1 to 5 percent slopes	1
Dayville silt loam	4
Dee silt loam, 0 to 8 percent slopes	2
Defenbaugh loam, 0 to 2 percent slopes	4
Dehill fine sandy loam, 0 to 5 percent slopes	4
Deschutes ashy sandy loam, 0 to 3 percent slopes	4
Deschutes ashy sandy loam, dry, 0 to 3 percent slopes	4
Deschutes sandy loam, 0 to 3 percent slopes	4
Deschutes sandy loam, 3 to 8 percent slopes	4
Deschutes sandy loam, dry, 0 to 3 percent slopes	4
Deschutes-Houstake complex, 0 to 8 percent slopes	4
Deskamp loamy sand, 0 to 3 percent slopes	4
Deskamp loamy sand, 3 to 8 percent slopes	4
Deskamp sandy loam, 3 to 8 percent slopes	4
Deter clay loam, 0 to 2 percent slopes	4
Deter clay loam, 2 to 7 percent slopes	4
Deter loam, 0 to 5 percent slopes	4
Deter loam, low precipitation, 0 to 5 percent slopes	4
Dixon gravelly fine sandy loam, 0 to 5 percent slopes	4
Dixon gravelly fine sandy loam, alkali, 0 to 2 percent slopes	4
Dodes loam, 0 to 2 percent slopes	4
Donica gravelly loam, 0 to 5 percent slopes	4
Dotta sandy loam, 0 to 5 percent slopes	4
Drews loam, 0 to 5 percent slopes	4
Drewsey very fine sandy loam, 1 to 5 percent slopes	4
Drewsgap loam, 0 to 5 percent slopes	4
Drybed silt loam, 0 to 8 percent slopes	4
Dryck gravelly loam, 0 to 2 percent slopes	4
Dryck loam, 0 to 2 percent slopes	4
Duart silt loam, 1 to 7 percent slopes	4
Dufur silt loam, 1 to 7 percent slopes	4
Dumont gravelly clay loam, 1 to 12 percent slopes	1
Dumont gravelly loam, 2 to 12 percent slopes	1
Ellisforde silt loam, 1 to 7 percent slopes	4
Endersby fine sandy loam	4
Endersby fine sandy loam, 0 to 3 percent slopes	4
Endersby loam	4
Endersby-Hermiston complex, 0 to 3 percent slopes	4
Enko loam, 1 to 10 percent slopes	4
Enko loamy sand, 2 to 8 percent slopes	4
Enko sandy loam, 0 to 6 percent slopes	4

Enko-Catlow complex, 1 to 7 percent slopes	4
Enko-McConnel complex, 0 to 5 percent slopes	4
Era ashy loam, 0 to 3 percent slopes	4
Era ashy sandy loam, 0 to 3 percent slopes	4
Era ashy sandy loam, 3 to 8 percent slopes	4
Era sandy loam, 3 to 8 percent slopes	4
Era sandy loam, cobbly substratum, 0 to 3 percent slopes	4
Era soils, 1 to 8 percent slopes	4
Esquatzel silt loam	4
Esquatzel silt loam, 0 to 3 percent slopes	4
Evans loam	1
Evans loam, 0 to 3 percent slopes	1
Evans silt loam, 0 to 3 percent slopes	1
Falk variant fine sandy loam	4
Faloma silt loam	5
Faloma silt loam, protected	2
Foehlin gravelly loam, 0 to 3 percent slopes	1
Foehlin gravelly loam, 3 to 12 percent slopes	1
Fordney gravelly loamy sand, 0 to 5 percent slopes	4
Fordney gravelly loamy sand, 5 to 15 percent slopes	4
Fordney loamy fine sand, 0 to 2 percent slopes	4
Fordney loamy fine sand, 2 to 20 percent slopes	4
Fordney loamy fine sand, terrace, 0 to 3 percent slopes	4
Freels silt loam, 0 to 3 percent slopes	4
Freezener gravelly loam, 1 to 12 percent slopes	1
Garbutt silt loam, 0 to 2 percent slopes	4
Garbutt silt loam, 2 to 5 percent slopes	4
Gelderman-Jory complex, 2 to 12 percent slopes	1
Gelsinger silt loam, 2 to 8 percent slopes	4
Glasgow silt loam, 2 to 7 percent slopes	4
Glide fine sandy loam, 0 to 3 percent slopes	4
Goodrich gravelly loam, 0 to 7 percent slopes	4
Goose Lake silt loam, 0 to 1 percent slopes	6
Greenleaf silt loam, 0 to 2 percent slopes	4
Greenleaf silt loam, 2 to 5 percent slopes	4
Gregory silty clay loam, 0 to 3 percent slopes	2
Gurdane silty clay loam, 0 to 7 percent slopes	4
Hack loam, 0 to 3 percent slopes	4
Hack loam, 3 to 7 percent slopes	4
Harana silt loam	4
Harana silty clay loam	4
Harriman loam, 0 to 2 percent slopes	4
Harriman loam, 0 to 5 percent slopes	4
Harriman loam, 2 to 5 percent slopes	4
Harriman loamy fine sand, 0 to 2 percent slopes	4
Helvetia silt loam, 0 to 12 percent slopes	1
Helvetia silt loam, 2 to 12 percent slopes	1
Helvetia silt loam, 2 to 7 percent slopes	1

Helvetia silt loam, 3 to 8 percent slopes	1
Hermiston silt loam	4
Hermiston silt loam, 0 to 3 percent slopes	4
Hershal silt loam, 0 to 2 percent slopes	6
Hibbard silt loam, 2 to 7 percent slopes	4
Hillsboro loam, 0 to 3 percent slopes	1
Hillsboro loam, 3 to 7 percent slopes	1
Holcomb silt loam	2
Holcomb silt loam, 0 to 3 percent slopes	2
Holcomb silty clay loam	2
Holland sandy loam, cool, 2 to 7 percent slopes	4
Homehollow ashy sandy loam, 0 to 3 percent slopes	4
Hood loam, 0 to 3 percent slopes	1
Hood loam, 3 to 8 percent slopes	1
Hot Lake silt loam	4
Houstake ashy sandy loam, 0 to 3 percent slopes	4
Houstake sandy loam, 0 to 3 percent slopes	4
Houstake sandy loam, dry, 0 to 3 percent slopes	4
Houstake sandy loam, very gravelly substratum, 0 to 3 percent slopes	4
Huberly silt loam	2
Hukill gravelly loam, 1 to 12 percent slopes	1
Hullt clay loam, 2 to 7 percent slopes	1
Hurwal silt loam, 2 to 8 percent slopes	4
Hurwal silt loam, moist, 2 to 8 percent slopes	4
Hutchinson silt loam, 2 to 7 percent slopes	4
Imbler coarse sandy loam, 1 to 5 percent slopes	4
Imbler fine sandy loam, 1 to 5 percent slopes	4
Iris silt loam, 0 to 1 percent slopes	4
Irrigon fine sandy loam, 2 to 5 percent slopes	4
Jerome sandy loam	4
Jett silt loam	4
Jett silt loam, 0 to 3 percent slopes	4
Jimbo silt loam	1
Jimbo-Haflinger complex, 0 to 3 percent slopes	1
Jimbo-Haflinger complex, 0 to 5 percent slopes	1
Jory silt loam, 2 to 12 percent slopes	1
Jory silty clay loam, 2 to 12 percent slopes	1
Jory silty clay loam, 2 to 7 percent slopes	1
Jory silty clay loam, 2 to 8 percent slopes	1
Jory silty clay loam, basalt bedrock, 2 to 12 percent slopes	1
Jory silty clay loam, diabase, 2 to 12 percent slopes	1
Jory silty clay loam, sedimentary bedrock, 2 to 12 percent slopes	1
Jory silty clay loam, sediments, 2 to 12 percent slopes	1
Jory-Bellpine complex, 2 to 12 percent slopes	1
Jory-Gelderman silt loams, 2 to 12 percent slopes	1
Jory-Gelderman silty clay loams, 2 to 12 percent slopes	1
Jory-Nekia complex, 2 to 12 percent slopes	1
Josephine gravelly loam, 3 to 12 percent slopes	1

Josset loam, 0 to 2 percent slopes	4
Kerby loam	1
Kerby loam, 0 to 3 percent slopes	1
Kerby loam, wet, 0 to 3 percent slopes	2
Kimberly fine sandy loam	4
Kimberly fine sandy loam, 0 to 3 percent slopes	4
Kimberly silt loam, 0 to 3 percent slopes	4
Kinton silt loam, 3 to 8 percent slopes	1
Krebs silt loam, 2 to 5 percent slopes	4
Kubli loam, 0 to 3 percent slopes	2
Kubli loam, 3 to 7 percent slopes	2
La Grande silt loam	4
La Grande silt loam, 0 to 3 percent slopes	4
La Grande silty clay loam	4
Ladd loam, 2 to 7 percent slopes	4
LaFollette sandy loam, 0 to 3 percent slopes	4
LaFollette sandy loam, 3 to 8 percent slopes	4
Lakeview loam, 0 to 2 percent slopes	4
Lakeview silty clay loam	4
Lakeview silty clay loam, 0 to 2 percent slopes	4
Lakeview silty clay loam, low precipitation, 0 to 2 percent slopes	4
Langrell gravelly loam, 0 to 3 percent slopes	4
Langrell-Snow complex, 0 to 3 percent slopes	4
Latourell loam, 0 to 3 percent slopes	1
Latourell loam, 3 to 8 percent slopes	1
Latourell silt loam, 0 to 3 percent slopes	1
Latourell silt loam, 3 to 8 percent slopes	1
Laurelwood silt loam, 3 to 7 percent slopes	1
Laurelwood silt loam, 3 to 8 percent slopes	1
Legler clay loam, 0 to 2 percent slopes	4
Legler silty clay loam, 0 to 3 percent slopes	4
Linslaw loam	2
Linslaw loam, 0 to 3 percent slopes	2
Linslaw loam, 3 to 8 percent slopes	2
Lostine silt loam, 0 to 3 percent slopes	4
Loupence silt loam, 0 to 2 percent slopes	6
Madras loam, 0 to 3 percent slopes	4
Madras loam, 3 to 8 percent slopes	4
Madras loam, 0 to 8 percent slopes	4
Madras loam, 1 to 12 percent slopes	4
Madras sandy loam, 0 to 3 percent slopes	4
Madras sandy loam, 3 to 8 percent slopes	4
Malabon silty clay loam	1
Malabon silty clay loam, 0 to 3 percent slopes	1
Malabon silty clay loam, flooded, 0 to 3 percent slopes	1
Malabon silty clay loam, occasionally flooded	1
Malabon silty clay loam, rarely flooded, 0 to 3 percent slopes	1
Malabon variant loam	1

Manita loam, 2 to 7 percent slopes	1
Marks creek loam, 0 to 3 percent slopes	4
Matterhorn gravelly fine sandy loam, 0 to 3 percent slopes	4
Maupin loam, 0 to 5 percent slopes	4
Maupin silt loam, 0 to 8 percent slopes	4
Maupin variant loam	4
McAlpin silty clay loam	1
McAlpin silty clay loam, 0 to 3 percent slopes	1
McAlpin silty clay loam, 3 to 6 percent slopes	1
McAlpin silty clay loam, high precipitation, 0 to 3 percent slopes	1
McAlpin silty clay loam, high precipitation, 3 to 6 percent slopes	1
McAlpin silty clay loam, rarely flooded, 0 to 3 percent slopes	1
McBee silt loam	3
McBee silty clay loam *2	1
McBee silty clay loam *3	3
McBee silty clay loam, 0 to 3 percent slopes	1
McBee silty clay loam, 0 to 3 percent slopes, nonflooded	1
McBee silty clay loam, nonflooded, 0 to 3 percent slopes	1
McBee variant loam	2
McConnel cobbly sandy loam, 3 to 8 percent slopes	4
McConnel very gravelly sandy loam, 0 to 2 percent slopes	4
McConnel very gravelly sandy loam, 2 to 15 percent slopes	4
McNab clay loam, 0 to 3 percent slopes	1
Medford clay loam, 0 to 7 percent slopes	1
Medford clay loam, gravelly substratum, 0 to 7 percent slopes	1
Medford silty clay loam, 0 to 3 percent slopes	1
Melbourne silty clay loam, 2 to 7 percent slopes	1
Mershon silt loam, 0 to 8 percent slopes	1
Metolius ashy sandy loam, 0 to 2 percent slopes	4
Metolius sandy loam, 0 to 8 percent slopes	4
Mikkalo silt loam, 2 to 7 percent slopes	4
Minam gravelly loam, 2 to 8 percent slopes	4
Minam loam, 2 to 8 percent slopes	4
Moag silty clay loam	5
Moag silty clay loam, protected	2
Modoc fine sandy loam, 0 to 2 percent slopes	4
Modoc fine sandy loam, 2 to 5 percent slopes	4
Mondovi silt loam, 0 to 3 percent slopes	4
Morfitt loam, 0 to 2 percent slopes	4
Morrow silt loam, 1 to 7 percent slopes	4
Multnomah loam, 0 to 3 percent slopes	1
Multnomah silt loam, 0 to 3 percent slopes	1
Multnomah silt loam, 3 to 8 percent slopes	1
Multnomah variant loam, 0 to 8 percent slopes	1
Nekia silty clay loam, 2 to 12 percent slopes	1
Nekia silty clay loam, 2 to 7 percent slopes	1
Nekia silty clay loam, 2 to 8 percent slopes	1
Newberg fine sandy loam	4

Newberg fine sandy loam, 0 to 3 percent slopes	4
Newberg fine sandy loam, high precipitation, 0 to 3 percent slopes	4
Newberg loam	4
Newberg loam, 0 to 3 percent slopes	4
Newberg loamy sand, 0 to 3 percent slopes	4
Newberg silt loam	4
Newberg silt loam, 0 to 3 percent slopes	4
Norad silt loam, 0 to 1 percent slopes	4
Norad silt loam, 0 to 2 percent slopes	4
Norad-Spangenburg complex, 0 to 2 percent slopes	4
North Powder loam, 2 to 12 percent slopes	4
North Powder loam, 2 to 15 percent slopes	4
Nyssa silt loam, 0 to 2 percent slopes	4
Nyssa silt loam, 2 to 5 percent slopes	4
Nyssa silt loam, gravel substratum, 0 to 2 percent slopes	4
Nyssa silt loam, gravel substratum, 2 to 5 percent slopes	4
Nyssa-Malheur silt loams, 0 to 2 percent slopes	4
Nyssa-Malheur silt loams, 2 to 5 percent slopes	4
Oak Grove loam, 0 to 8 percent slopes	1
Ochoco-Prineville complex 0 to 3 percent slopes	4
Ochoco-Prineville complex, 3 to 8 percent slopes	4
Olallie clay loam, 0 to 3 percent slopes	6
Olex silt loam, 0 to 5 percent slopes	4
Oliphant silt loam 0 to 3 percent slopes	4
Onyx silt loam	4
Onyx silt loam, 0 to 3 percent slopes	4
Owyhee silt loam, 0 to 2 percent slopes	4
Owyhee silt loam, 2 to 5 percent slopes	4
Ozamis loam, 0 to 1 percent slopes	6
Ozamis silt loam, 0 to 1 percent slopes	6
Ozamis silty clay loam, 0 to 1 percent slopes	6
Packard gravelly loam, 0 to 5 percent slopes	1
Packard gravelly loam, flooded, 0 to 3 percent slopes	1
Palouse silt loam, 0 to 5 percent slopes	1
Palouse silt loam, 1 to 7 percent slopes	1
Parkdale loam, 0 to 8 percent slopes	1
Pedigo silt loam	4
Pedigo silt loam, 0 to 3 percent slopes	4
Pelton-Willowdale complex, 0 to 3 percent slopes	4
Pengra silt loam, 1 to 4 percent slopes	2
Pengra silt loam, 2 to 12 percent slopes	2
Phys silt loam, 1 to 5 percent slopes	4
Pilot Rock silt loam, 1 to 7 percent slopes	4
Plainview sandy loam, 0 to 3 percent slopes	4
Plainview sandy loam, 3 to 8 percent slopes	4
Poden silt loam	4
Poe fine sandy loam	4
Poe loamy fine sand	4

Pollard loam, 2 to 7 percent slopes	1
Powder loam, 0 to 3 percent slopes	4
Powder silt loam	4
Powder silt loam, 0 to 2 percent slopes	4
Powder silt loam, 0 to 3 percent slopes	4
Powder silt loam, occasional overflow	4
Powell silt loam, 0 to 3 percent slopes	2
Powell silt loam, 0 to 8 percent slopes	2
Powell silt loam, 3 to 8 percent slopes	2
Powval silt loam, 0 to 3 percent slopes	4
Powval silt loam, 0 to 3 percent slopes, warm	4
Pritchard silty clay loam, 2 to 7 percent slopes	4
Prosser silt loam, 0 to 2 percent slopes	4
Prosser silt loam, 2 to 7 percent slopes	4
Quafeno loam, 0 to 3 percent slopes	1
Quafeno loam, 3 to 8 percent slopes	1
Quatama loam, 0 to 3 percent slopes	1
Quatama loam, 3 to 7 percent slopes	1
Quatama loam, 3 to 8 percent slopes	1
Quatama silt loam, 0 to 3 percent slopes	1
Quatama silt loam, 3 to 8 percent slopes	1
Rafton silt loam	5
Rafton silt loam, protected	2
Rafton-Sauvie-Moag complex	5
Ramo silty clay loam, 2 to 8 percent slopes	4
Reavis silt loam, 0 to 3 percent slopes	4
Redbell silt loam, 0 to 5 percent slopes	2
Redmond ashy sandy loam, 0 to 3 percent slopes	4
Redmond sandy loam, 0 to 3 percent slopes	4
Redmount gravelly silt loam, 0 to 3 percent slopes	4
Redmount silt loam, 0 to 3 percent slopes	4
Redmount silt loam, 3 to 8 percent slopes	4
Redmount-Cheval complex, 0 to 2 percent slopes	4
Rhea silt loam, 1 to 7 percent slopes	4
Ricco silty clay loam	6
Rio King loam, 1 to 6 percent slopes	4
Ritzville silt loam, 0 to 2 percent slopes	4
Ritzville silt loam, 2 to 7 percent slopes	4
Ritzville very fine sandy loam, 2 to 7 percent slopes	4
Roloff silt loam, 0 to 2 percent slopes	4
Roloff silt loam, 2 to 7 percent slopes	4
Roseburg loam, 0 to 3 percent slopes	1
Rosehaven loam, 3 to 12 percent slopes	1
Royal fine sandy loam, 2 to 5 percent slopes	4
Royal silt loam, 0 to 3 percent slopes	4
Ruch gravelly silt loam, 2 to 7 percent slopes	1
Ruch silt loam, 2 to 7 percent slopes	1
Ruch-Selmac complex, 2 to 7 percent slopes	1

Sagehill fine sandy loam, 0 to 2 percent slopes	4
Sagehill fine sandy loam, 2 to 5 percent slopes	4
Sagehill fine sandy loam, hummocky, 2 to 5 percent slopes	4
Salem gravelly silt loam	1
Salem gravelly silt loam, 0 to 3 percent slopes	1
Salem gravelly silt loam, 0 to 7 percent slopes	1
Salem silt loam, 0 to 7 percent slopes	1
Salisbury loam, 0 to 5 percent slopes	4
Salkum silt loam, 2 to 6 percent slopes	1
Salkum silty clay loam, 2 to 6 percent slopes	1
Salkum silty clay loam, 2 to 8 percent slopes	1
Salkum silty clay loam, basin, 0 to 6 percent slopes	1
Santiam silt loam, 0 to 3 percent slopes	1
Santiam silt loam, 2 to 8 percent slopes	1
Santiam silt loam, 3 to 6 percent slopes	1
Saturn variant silt loam	1
Saum silt loam, 2 to 7 percent slopes	1
Saum silt loam, 3 to 8 percent slopes	1
Sauvie silt loam	5
Sauvie silt loam, protected	2
Sauvie silty clay loam, protected	2
Sawtell silt loam, 0 to 8 percent slopes	1
Schrier silt loam, 2 to 8 percent slopes	4
Schrier silt loam, shaly substratum, 2 to 7 percent slopes	4
Selmac loam, 2 to 7 percent slopes	2
Sevenoaks loamy sand, 0 to 3 percent slopes	4
Shano silt loam, 2 to 7 percent slopes	4
Shefflein loam, 2 to 7 percent slopes	1
Sibold fine sandy loam, 0 to 5 percent slopes	1
Sifton gravelly loam	1
Sifton gravelly loam, occasionally flooded	1
Sifton loam	1
Silverlake silt loam, 0 to 3 percent slopes	4
Sinamox silt loam, 1 to 7 percent slopes	4
Snow silt loam	4
Snow silt loam, 0 to 3 percent slopes	4
Spangenburg complex, 0 to 2 percent slopes	4
Spangenburg silty clay loam, 0 to 1 percent slopes	4
Spangenburg silty clay loam, moist, 0 to 1 percent slopes	4
Spangenburg silty clay loam, thick surface, 0 to 2 percent slopes	4
Springwater loam, 2 to 8 percent slopes	1
Steiwer silt loam, 3 to 6 percent slopes	1
Taunton fine sandy loam, 0 to 2 percent slopes	4
Taunton fine sandy loam, 1 to 7 percent slopes	4
Taunton fine sandy loam, 2 to 5 percent slopes	4
Terrabella clay loam, 0 to 3 percent slopes	2
Tetherow sandy loam, 0 to 3 percent slopes	4
Tetherow sandy loam, 3 to 8 percent slopes	4

Thatuna silt loam, 1 to 7 percent slopes	2
Topper silt loam, 2 to 8 percent slopes	4
Truesdale fine sandy loam, 0 to 2 percent slopes	4
Truesdale fine sandy loam, 2 to 5 percent slopes	4
Truesdale fine sandy loam, 5 to 8 percent slopes	4
Tulana mucky silty clay loam, drained, 0 to 1 percent slopes	4
Tulana silt loam	6
Tulana silt loam, sandy substratum	6
Tumalo sandy loam, 0 to 3 percent slopes	4
Tumalo sandy loam, 3 to 8 percent slopes	4
Turbyfill fine sandy loam, 0 to 2 percent slopes	4
Turbyfill fine sandy loam, 2 to 5 percent slopes	4
Tygh fine sandy loam	7
Valby silt loam, 1 to 7 percent slopes	4
Van Horn fine sandy loam, 0 to 8 percent slopes	1
Van Horn loam, 0 to 8 percent slopes	1
Van Horn variant loam, 0 to 8 percent slopes	1
Veazie loam	7
Veazie loam, 0 to 3 percent slopes	7
Veazie silt loam, 0 to 3 percent slopes	4
Veneta loam, 0 to 7 percent slopes	1
Veneta loam, 0 to 12 percent slopes	1
Veneta variant silt loam, 0 to 7 percent slopes	1
Virtue silt loam, 0 to 2 percent slopes	4
Virtue silt loam, 2 to 5 percent slopes	4
Virtue silt loam, 2 to 7 percent slopes	4
Waha silt loam, 1 to 7 percent slopes	4
Waha silty clay loam, 1 to 12 percent slopes	4
Walla Walla silt loam, 1 to 7 percent slopes	4
Walla Walla silt loam, 3 to 7 percent slopes	4
Walla Walla silt loam, hardpan substratum, 1 to 7 percent slopes	4
Wamic loam, 1 to 5 percent slopes	4
Wapato silt loam	5
Wapato silty clay loam	5
Wapato silty clay loam, 0 to 3 percent slopes	5
Wapato silty clay loam, high precipitation, 0 to 3 percent slopes	5
Wapinitia silt loam, 0 to 8 percent slopes	4
Wapinitia variant silt loam, 1 to 7 percent slopes	4
Warden silt loam, 0 to 2 percent slopes	4
Warden silt loam, 2 to 5 percent slopes	4
Warden very fine sandy loam, 2 to 5 percent slopes	4
Watama silt loam, 2 to 8 percent slopes	4
Watama-Wapinitia silt loams, 0 to 5 percent slopes	4
Wato very fine sandy loam, 3 to 7 percent slopes	4
Wellsdale loam, 2 to 12 percent slopes	1
Wellsdale-Willakenzie-Dupee complex, 2 to 12 percent slopes	1
Wenas-Loupence-Cumulic Haploxerolls complex, 0 to 3 percent slopes	6
Willakenzie clay loam, 2 to 12 percent slopes	1

Willakenzie loam, 2 to 12 percent slopes	1
Willakenzie silty clay loam, 2 to 12 percent slopes	1
Willamette silt loam	1
Willamette silt loam, 0 to 3 percent slopes	1
Willamette silt loam, 3 to 7 percent slopes	1
Willamette silt loam, 3 to 8 percent slopes	1
Willamette silt loam, gravelly substratum, 0 to 3 percent slopes	1
Willamette silt loam, wet, 0 to 3 percent slopes	1
Willamette silt loam, wet, 3 to 7 percent slopes	1
Willis silt loam, 2 to 5 percent slopes	4
Willis silt loam, 2 to 7 percent slopes	4
Willowdale loam, 0 to 2 percent slopes	4
Willowdale loam, 0 to 3 percent slopes	4
Willowdale-Dryck-Fluvaquents complex, 0 to 2 percent slopes	4
Wind River fine sandy loam, 0 to 8 percent slopes	4
Windygap clay loam, 2 to 12 percent slopes	1
Windygap silt loam, 2 to 12 percent slopes	1
Wingdale silt loam, 0 to 2 percent slopes	6
Wingville silt loam	4
Wingville silt loam, 0 to 2 percent slopes	4
Wolfpeak sandy loam, 3 to 12 percent slopes	1
Wollent silt loam	2
Woodburn silt loam	1
Woodburn silt loam, 0 to 3 percent slopes	1
Woodburn silt loam, 3 to 7 percent slopes	1
Woodburn silt loam, 3 to 8 percent slopes	1
Wyeast silt loam, 0 to 8 percent slopes	2
Xerolls, silty, 0 to 3 percent slopes	4
Yakima silt loam, 0 to 3 percent slopes	4
Zorravista fine sand, 0 to 5 percent slopes	4
Zorravista-Hinton complex, 0 to 8 percent slopes	4

\*1 only in Baker and Union Soil Surveys

\*2 only in Clackamas, Linn, Marion, and Yamhill Soil Surveys

\*3 only in Lane, Polk, and Washington Soil Surveys