Lane County
Land Management Division

August 2011 Update

PREPARED BY
LCOG
Lane Council of Governments

Lane County Soil Ratings for Forestry
August 2011 Update

The Lane County Land Management Division, with technical assistance from the Lane Council of Governments, compiled the data in the attached table to assist the public in preparing land use applications. The United States Department of Agriculture-Natural Resources Conservation Service (NRCS), the Oregon Department of Forestry (ODOF), and the Oregon Department of Land Conservation and Development (DLCD) have reviewed this compilation. The reviewers concur that the data in the attached table, used where NRCS data is not available, are of comparable quality to that required by OAR 660-006-0010 to identify forestland.

For simplicity, this list includes only selected soil map units that occur in areas where development may be permitted. It is not a complete listing of all the soil map units in Lane County.

PLEASE NOTE: All the forest ratings data is for Douglas-fir (*Pseudotsuga menziesii*), which is the predominant timber-producing species and the accepted indicator in Lane County. This document uses a "best available data" approach, per OAR 660 Division 60, as explained in ODOF Land Use Planning Notes Number 3 (April 2010 Update). NRCS data is to be used when available. ODOF data is listed for soil map units for which there is no NRCS data. Some of the ODOF data is estimated, as noted ("est.").

Source and Description of the Data

Data Sources

Oregon Department of Forestry, Land Use Planning Notes No. 3. April 2010 Update.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Data Mart. Available online at http://soildatamart.nrcs.usda.gov/ accessed [02/09/2010]. Forestland Productivity.

Stere, Dave. Oregon Department of Forestry. Memo to Ron Eber, Department of Land Conservation and Development, Subject: Forest Lands Soil Ratings. 02/08/1990.

Data Descriptions

Site Index
Site index indicates the average height, in feet, that dominant and co-dominant Douglas-fir trees attain in 50 years (or 100 years, for the higher elevation soil series of Cruiser, Holderman, Hummington, and Keel). The site index applies to fully stocked, even-aged, unmanaged stands. This table lists data only for Douglas-fir. The description under cubic feet/acre/year explains the composite volume rating in this table for soil complexes.

Cubic Feet/Acre/Year
Converting site index to cubic feet/acre/year expresses productivity as a volume of wood fiber produced. Conversion tables, based on data curves generated through sampling, are used to convert site index to cubic feet/acre/year. The conversions depend on the site index, species,

length of the rotation (e.g., 50 years or 100 years), and whether the tree is growing on the west side or the east side of the Cascades.

The NRCS reports site index data for each component of a soil complex but does not calculate a composite volume for the entire complex. A complex is a soil map unit that has two or more kinds of soil in such an intricate pattern or so small in area that the soils cannot be delineated separately at the scale of mapping. This document reports NRCS data for complexes that are newer map units for which there are no ODOF estimates available. The NRCS data that is reported for complexes in this document is for the predominant component in the complex, which is the first soil listed in the name of the soil map unit.

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Map Symbol	Soil Map Unit	NRCS Site Index	NRCS Cu. Ft./ Acre/Year	ODOF Cu. Ft./ Acre/Year	Notes
01A	Abiqua silty clay loam, 0 - 3% slopes	135	203	---	
01B	Abiqua silty clay loam, 3 - 5% slopes	135	203	---	
02E	Astoria silt loam, 5 - 30% slopes	130	193	---	
03E	Astoria Variant silt loam, 3 - 30% slopes	No rating	---	181	
03G	Astoria Variant silt loam, 30 - 60% slopes	No rating	---	181	
04G	Atring-Rock outcrop complex, 30 - 60% slopes	No rating	---	86	
05	Awbrig silty clay loam	No rating	---	est. 40	
06	Awbrig-Urban land complex	No rating	---	est. 20	
07B	Bandon sandy loam, 0 - 7% slopes	105	145	---	
07C	Bandon sandy loam, 7 - 12% slopes	105	145	---	
07F	Bandon sandy loam, 12 - 50% slopes	105	145	---	
08	Bashaw clay	No rating	---	est. 30	
09	Bashaw-Urban land complex	No rating	---	est. 20	
10	Beaches	No rating	---	---	No trees expected
11C	Bellpine silty clay loam, 3 - 12% slopes	115	163	---	
11D	Bellpine silty clay loam, 12 - 20% slopes	115	163	---	
11E	Bellpine silty clay loam, 20 - 30% slopes	115	163	---	
11F	Bellpine silty clay loam, 30 - 50% slopes	115	163	---	
12E	Bellpine cobbly silty clay loam, 2 - 30% slopes	115	163	---	
13A	Nekoma-Fluvaquents complex, 0 - 3% slopes	No rating	---	No rating	Highly variable; on-site determination
13F	Blachly clay loam, 30 - 50% slopes	119	173	---	
13G	Blachly clay loam, 50 - 70% slopes	119	173	---	
14E	Blachly silty clay loam, 3 - 30% slopes	125	184	---	
14F	Blachly silty clay loam, 30 - 50% slopes	125	184	---	
15E	Blachly-McCully clay loam, 3 - 30% slopes	No rating	---	155	
16D	Bohannon gravelly loam, 3 - 25% slopes	118	171	---	
16F	Bohannon gravelly loam, 25 - 50% slopes	118	171	---	
16H	Bohannon gravelly loam, 50 - 90% slopes	118	171	---	
17	Brallier muck, drained	No rating	---	---	No trees expected
18	Brallier Variant muck	No rating	---	---	No trees expected
19	Brenner silty clay loam	No rating	---	---	No Douglas-fir expected
20B	Briedwell cobbly loam, 0 - 7% slopes	103	141	---	
21B	Bullards-Ferrelo loams, 0 - 7% slopes	No rating	---	est. 80	
21C	Bullards-Ferrelo loams, 7 - 12% slopes	No rating	---	est. 80	

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Map Symbol	Soil Map Unit	NRCS Site Index	NRCS Cu. Ft./ Acre/Year	ODOF Cu. Ft./ Acre/Year	Notes
21E	Bullards-Ferrelo loams, 12 - 30% slopes	No rating	---	est. 80	
21G	Bullards-Ferrelo loams, 30 - 60% slopes	No rating	---	est. 80	
23	Camas-Urban land complex	No rating	---	est. 20	
24	Chapman loam	No rating	---	est.140	
25	Chapman-Urban land complex	No rating	---	est. 100	
26	Chehalis silty clay loam, occasionally flooded	No rating	---	est. 100	
27	Chehalis-Urban land complex	No rating	---	est. 90	
28C	Chehulpum silt loam, 3 - 12% slopes	No rating	---	est. 40	
28E	Chehulpum silt loam, 12 - 40% slopes	No rating	---	est. 40	
29	Cloquato silt loam	No rating	---	est. 120	
30	Cloquato-Urban land complex	No rating	---	est. 100	
31	Coburg silty clay loam	No rating	---	est. 100	
32	Coburg-Urban land complex	No rating	---	est. 90	
33	Conser silty clay loam	No rating	---	est. 45	
34	Courtney gravelly silty clay loam	No rating	---	est. 40	
36D	Cumley silty clay loam, 2 - 20% slopes	114	162	---	
37C	Cupola cobbly loam, 3 - 12% slopes	100	136	---	
37E	Cupola cobbly loam, 12 - 30% slopes	100	136	---	
38	Dayton silt loam, clay substratum	No rating	---	est. 40	
39E	Digger gravelly loam, 10 - 30% slopes	102	140	---	
39F	Digger gravelly loam, 30 - 50% slopes	102	140	---	
40H	Digger-Rock outcrop complex, 50 - 85% slopes	No rating	---	114	
41C	Dixonville silty clay loam, 3 - 12% slopes	109	152	---	
41E	Dixonville silty clay loam, 12 - 30% slopes	109	152	---	
41F	Dixonville silty clay loam, 30 - 50% slopes	109	152	---	
42E	Dixonville-Hazelair-Urban land complex, 12 - 35% slopes	No rating	---	est. 35	
43C	Dixonville-Philomath-Hazelair complex, 3 - 12% slopes	No rating	---	est. 45	
43E	Dixonville-Philomath-Hazelair complex, 12 - 35% slopes	No rating	---	est. 45	
44	Dune land	No rating	---	---	No trees expected
45C	Dupee silt loam, 3 - 20% slopes	No rating	---	est. 70	
46	Eilertsen silt loam	133	199	---	
47E	Fendall silt loam, 3 - 30% slopes	125	184	---	

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Map Symbol	Soil Map Unit	NRCS Site Index	NRCS Cu. Ft./ Acre/Year	ODOF Cu. Ft./ Acre/Year	Notes
49E	Formader loam, 3 - 30% slopes	121	176	---	Highly variable; on-site determination required
49G	Formader loam, 30 - 60% slopes	121	176	---	
50G	Formader-Hembre-Klickitat complex, 50 - 80% slopes	No rating	---	170	
52B	Hazelair silty clay loam, 2 - 7% slopes	No rating	---	est. 40	
52D	Hazelair silty clay loam, 7 - 20% slopes	No rating	---	est. 40	
53	Heceta fine sand	No rating	---	est. 20	
54D	Hembre silt loam, 5 - 25% slopes	127	188	---	
54G	Hembre silt loam, 25-60% slopes	127	188	---	
55E	Hembre-Klickitat complex, 3 - 30% slopes	No rating	---	170	
55G	Hembre-Klickitat complex, 30 - 60% slopes	No rating	---	168	
56	Holcomb silty clay loam	No rating	---	est. 100	
58D	Honeygrove silty clay loam, 3 - 25% slopes	122	178	---	
58F	Honeygrove silty clay loam, 25 - 50% slopes	122	178	---	
59E	Hullt loam, 2 - 30% slopes	121	176	---	
59G	Hullt loam, 30 - 60% slopes	121	176	---	
61	Jimbo silt loam	121	176	---	
62B	Jimbo-Haflinger complex, 0 - 5% slopes	No rating	---	167	
63C	Jory silty clay loam, 2 - 12% slopes	122	178	---	
63D	Jory silty clay loam, 12 - 20% slopes	122	178	---	
63E	Jory silty clay loam, 20 - 30% slopes	122	178	---	
65G	Kilchis stony loam, 30 - 60% slopes	90	116	---	
65H	Kilchis stony loam, 60 - 90% slopes	90	116	---	
66D	Kinney cobbly loam, 3 - 20% slopes	122	178	---	
67F	Kinney cobbly loam, 20 - 50% north slopes	122	178	---	
67G	Kinney cobbly loam, 50 - 70% north slopes	122	178	---	
68F	Kinney cobbly loam, 20 - 50% south slopes	122	178	---	
68G	Kinney cobbly loam, 50 - 70% south slopes	122	178	---	
69E	Kinney cobbly loam, slump, 3 - 30% slopes	122	178	---	
70E	Klickitat stony loam, 3 - 30% slopes	112	158	---	
71F	Klickitat stony loam, 30 - 50% north slopes	112	158	---	
71G	Klickitat stony loam, 50 - 75% north slopes	112	158	---	
72F	Klickitat stony loam, 30 - 50% south slopes	112	158	---	
72G	Klickitat stony loam, 50 - 75% south slopes	112	158	---	
73	Linslaw loam	No rating	---	est. 80	
74B	Lint silt loam, 0 - 7% slopes	117	169	---	

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Map Symbol	Soil Map Unit	NRCS Site Index	NRCS Cu. Ft./ Acre/Year	ODOF Cu. Ft./ Acre/Year	Notes
74C	Lint silt loam, 7 - 12% slopes	117	169	---	
74D	Lint silt loam, 12 - 20% slopes	117	169	---	
74E	Lint silt loam, 20 - 40% slopes	117	169	---	
75	Malabon silty clay loam	No rating	---	est. 65	
76	Malabon-Urban land complex	No rating	---	est. 50	
77B	Marcola cobbly silty clay loam, 2 - 7% slopes	No rating	---	est. 70	
78	McAlpin silty clay loam	No rating	---	169	
79	McBee silty clay loam	No rating	---	est. 100	
80F	McCully clay loam, 30 - 35% slopes	118	171	---	
80G	McCully clay loam, 50 - 70% slopes	118	171	---	
81D	McDuff clay loam, 3 - 25% slopes	112	158	---	
81F	McDuff clay loam, 25 - 50% slopes	112	158	---	
81G	McDuff clay loam, 50 - 70% slopes	112	158	---	
82C	Meda loam, 2 - 12% slopes	No rating	---	171	
83B	Minniece silty clay loam, 0 - 8% slopes	No rating	---	129	
85	Natroy silty clay loam	No rating	---	est. 60	
86	Natroy silty clay	No rating	---	est. 60	
87	Natroy-Urban land complex	No rating	---	est. 40	
88	Nehalem silt loam	No rating	---	186	
89C	Nekia silty clay loam, 2 - 12% slopes	113	160	---	
89D	Nekia silty clay loam, 12 - 20% slopes	113	160	---	
89E	Nekia silty clay loam, 20 - 30% slopes	113	160	---	
89F	Nekia silty clay loam, 30 - 50% slopes	113	160	---	
90	Nekoma silt loam	No rating	---	191	
91D	Neskowin silt loam, 12 - 20% slopes	No rating	---	205	
91E	Neskowin silt loam, 20 - 40% slopes	No rating	---	205	
92G	Neskowin-Salander silt loams, 40 - 60% slopes	No rating	---	205	
93	Nestucca silt loam	No rating	---	est. 130	
94C	Netarts fine sand, 3 - 12% slopes	No rating	---	58	
94E	Netarts fine sand, 12 - 30% slopes	No rating	---	58	
95	Newberg fine sandy loam	No rating	---	est. 150	
96	Newberg loam	No rating	---	est. 150	
97	Newberg-Urban land complex	No rating	---	est. 100	
98	Noti loam	No rating	---	est. 30	
99H	Ochrepts and Umbrepts, very steep	No rating	---	est. 130	
100	Oxley gravelly silt loam	No rating	---	est. 80	

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Map Symbol	Soil Map Unit	NRCS Site Index	NRCS Cu. Ft./ Acre/Year	ODOF Cu. Ft./ Acre/Year	Notes
101	Oxley-Urban land complex	No rating	---	est. 60	
102C	Panther silty clay loam, 2 - 12% slopes	No rating	---	est. 45	
103C	Panther-Urban land complex, 2 - 12% slopes	No rating	---	est. 40	
104E	Peavine silty clay loam, 3 - 30% slopes	125	184	---	
104G	Peavine silty clay loam, 30 - 60% slopes	125	184	---	
105A	Pengra silt loam, 1 - 4% slopes	No rating	---	est. 45	
106A	Pengra-Urban land complex, 1 - 4% slopes	No rating	---	est. 30	
107C	Philomath silty clay, 3 - 12% slopes	No rating	---	est. 45	
108C	Philomath cobbly silty clay, 3 - 12% slopes	No rating	---	est. 45	
108F	Philomath cobbly silty clay, 12 - 45% slopes	No rating	---	est. 45	
109F	Philomath-Urban land complex, 12 - 45% slopes	No rating	---	est. 20	
110	Pits	No rating	---	---	No trees expected
111D	Preacher loam, 0 - 25% slopes	128	190	---	
111F	Preacher loam, 25 - 50% slopes	128	190	---	
112G	Preacher-Bohannon-Slickrock complex, 50 - 75% slopes	No rating	---	185	
113C	Ritner cobbly silty clay loam, 2 - 12% slopes	107	149	---	
113E	Ritner cobbly silty clay loam, 12 - 30% slopes	107	149	---	
113G	Ritner cobbly silty clay loam, 30 - 60% slopes	107	149	---	
114	Riverwash	No rating	---	---	Highly variable; on-site determination required
115H	Rock outcrop-Kilchis complex, 30 - 90% slopes	No rating	---	34	
116G	Rock outcrop-Witzel complex, 10 - 70% slopes	No rating	---	21	
117E	Salander silt loam, 12 - 30% slopes	125	184	---	
118	Salem gravelly silt loam	No rating	---	est. 130	
119	Salem-Urban land complex	No rating	---	est. 100	
120B	Salkum silt loam, 2 - 6% slopes	116	167	---	
121B	Salkum silty clay loam, 2 - 8% slopes	116	167	---	
121C	Salkum silty clay loam, 8 - 16% slopes	116	167	---	
122	Saturn clay loam	123	180	---	
123	Sifton gravelly loam	124	182	---	
124D	Slickrock gravelly loam, 3 - 25% slopes	137	209	---	
124F	Slickrock gravelly loam, 25 - 50% slopes	137	209	---	
125C	Steiwer loam, 3 - 12% slopes	No rating	---	est. 30	

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Map Symbol	Soil Map Unit	NRCS Site Index	NRCS Cu. Ft./ Acre/Year	ODOF Cu. Ft./ Acre/Year	Notes
125D	Steiwer loam, 12 - 20% slopes	No rating	---	est. 30	
125F	Steiwer loam, 20 - 50% slopes	No rating	---	est. 30	
126F	Tahkenitch loam, 20 - 45% slopes	124	182	---	
126G	Tahkenitch loam, 45 - 75% slopes	124	182	---	
127C	Urban land-Hazelair-Dixonville complex, 3 - 12% slopes	No rating	---	est. 45	
128B	Veneta loam, 0 - 7% slopes	108	150	---	
129B	Veneta Variant silt loam, 0 - 7% slopes	124	182	---	
130	Waldo silty clay loam	No rating	---	est. 45	
131C	Waldport fine sand, 0 - 12% slopes	No rating	---	29	
131E	Waldport fine sand, 12 - 30% slopes	No rating	---	29	
131G	Waldport fine sand, 30 - 70% slopes	No rating	---	29	
132E	Waldport fine sand, thin surface, 0 - 30% slopes	No rating	---	29	
133C	Waldport-Urban land complex, 0 - 12% slopes	No rating	---	est. 20	
134	Wapato silty clay loam	No rating	---	---	
135C	Willakenzie clay loam, 2 - 12% slopes	110	154	---	
135D	Willakenzie clay loam, 12 - 20% slopes	110	154	---	
135E	Willakenzie clay loam, 20 - 30% slopes	110	154	---	
135F	Willakenzie clay loam, 30 - 50% slopes	110	154	---	
136	Willanch fine sandy loam	No rating	---	est. 40	
138E	Witzel very cobbly loam, 3 - 30% slopes	No rating	---	70	
138G	Witzel very cobbly loam, 30 - 75% slopes	No rating	---	70	
139	Woodburn silt loam	No rating	---	est. 170	
140	Yaquina loamy fine sand	No rating	---	---	
141	Yaquina-Urban land complex	No rating	---	est. 45	
2024A	Malabon silty clay loam, rarely flooded, 0 - 3% slopes	123	180	---	Best available data
2025A	Coburg silty clay loam, rarely flooded, 0 - 3% slopes	No rating	Est. 100	---	No data available; the estimate is for Coburg map unit 31, a similar soil
2208B	McAlpin silty clay loam, 3 - 6% slopes	144	222	---	
2718E	Jory-Nekia complex, 20 - 30% slopes	122	178	---	Data is for the Jory component only
2733C	Willakenzie loam, 2 - 12% slopes	112	158	---	
2733E	Willakenzie loam, 2 - 12% slopes	110	157	---	

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Map Symbol	Soil Map Unit	NRCS Site Index	NRCS Cu. Ft./ Acre/Year	ODOF Cu. Ft./ Acre/Year	Notes
2752C	Bellpine-Jory complex, 2 - 12% slopes	115	172	---	Data is for the Bellpine component only
2752D	Bellpine-Jory complex, 12 - 20% slopes	115	172	---	Data is for the Bellpine component only
2752E	Bellpine-Jory complex, 20 - 30% slopes	115	172	---	Data is for the Bellpine component only
2754 C	Jory silty clay loam, sediments,	122	178	---	
2754D	Jory silty clay loam, sediments,	122	178	---	
2754E	Jory silty clay loam, sediments,	122	178	---	
No rating	Indicates soil map units for which no site index data is available from NRCS.				
---	In NRCS column--indicates soil map units for which no cu ft/ac/year can be calculated because no site index data is available. In ODOF column--indicates soil map units for which NRCS data are available, so no ODOF data need be reported.				

Lane County Soil Ratings for Agriculture
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The Lane County Land Management Division, with technical assistance from the Lane Council of Governments, compiled the data in the attached table to assist the public in preparing land use applications. The United States Department of Agriculture-Natural Resources Conservation Service (NRCS), the Oregon Department of Land Conservation and Development (DLCD), and the Oregon Department of Agriculture (ODA) have reviewed this compilation and support the methodology. For simplicity, the table includes only selected soil map units that occur in areas where development may be permitted. It is not a complete listing of all the soil map units in Lane County, but it does include all the high value soils in Lane County.

The data in the table came from the NRCS and DLCD. NRCS determined the land capability class of soils it mapped and described in the Soil Survey. Because capability class is a general measure of soil quality and widely available, the statewide land use planning system used it to define agricultural soils. DLCD defined "high value farmland" in the Agricultural Land Rule. This rule limits uses on high value farmland to protect the resource. There is more detailed information about the data in the section below titled "Source and Description of the Data."

PLEASE NOTE: Do not use the data in this booklet for marginal lands applications on agricultural land, which require agricultural capability class data that were in use by the USDA-Soil Conservation Service on October 15, 1983. [ORS 197.247 (1)(b)(C), 1993 version] Contact Land Management Division staff for more information.

Source and Description of the Data

Data Sources

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Data Mart. Available online at http://soildatamart.nrcs.usda.gov/ accessed [02/09/2010]. Nonirrigated Yields by Map Unit Component.

Land Conservation and Development Commission, adopted February 18, 1994. *Oregon Administrative Rules, Chapter 660, Division 033* (OAR 660-033).

Data Descriptions

Land Capability Class

Land capability class, sometimes called agricultural capability class, generally shows the suitability of soils for most kinds of field crops. The Soil Survey describes capability class: "The soils are grouped according to their limitations for field crops, the risk of damage if they are used for field crops, and the way they respond to management." There are eight capability classes, I through VIII (sometimes written as 1 through 8), indicating progressively greater limitations for use as cropland. The land capability classification is discussed in USDA-NRCS Technical Note 40, page 37, Revised June 1977. Oregon's statewide land use planning rules use capability class as an indicator of soil quality. Classes 1 through 4 (I – VI) generally are considered relatively higher value agricultural soils.

The NRCS reports both irrigated and non-irrigated capability classes. In Lane County, because of adequate rainfall, the ratings are the same for irrigated and non-irrigated for all except two soil map units (28C, Chehulpum silt loam, 3-12%, and 125D, Steiwer loam, 3-12%). The attached table lists the non-irrigated capability class.

Some of the soil map units are complexes, which have two or more soils in such an intricate pattern in the landscape or so small in area that the soils cannot be delineated separately at the scale of mapping. The complexes are named according to how much of each soil comprises the complex, with the most predominant soil named first and the other soils named in descending order. The NRCS reports land capability class for each component of a soil complex but does not calculate a composite capability class rating for the entire complex. Except for special cases, which are explained in the next two paragraphs, the attached table lists only the capability class of the most predominant soil in the complex (which is the first soil in the name of the map unit).

The predominant component in map unit 127C Urban Land-Hazelaire-Dixonville, 3-12% slopes, is urban land. The attached table lists 4 (the capability class for Hazelaire) rather than 8 (the capability class for urban land) as the capability class for 127C because it would be more protective of the resource when used in land use planning applications.

Each of the first two components in map unit 43C Dixonville-Philomath-Hazelaire, 3-12% slopes, comprise 30% of the complex but have different capability classes. The attached table lists 3 (the capability class for Dixonville) rather than 6 (the capability class for Philomath) as the capability class for 43C because it would be more protective of the resource when used in land use planning applications.

<u>High Value Soils</u>

The Agricultural Land Rule (OAR 660-033) defines “high value farmland” as land in a tract composed predominantly of soils that are prime, unique, Class I or II, and other soils as specified in the rule. These other soils include the wet clay soils on valley terraces that generally are used for grass seed production, and moderately sloping soils on low foothills that are suitable for a variety of uses depending on slope, including cultivated crops, pasture, Christmas trees, orchards, grazing, berries, and grass seed.

NRCS is the agency responsible for classifying soils as prime, unique, or land capability Class I through VIII (1 through 8). The names “prime” and “unique” are what they imply. Prime soils are the best soils from a national perspective—easy to farm, suitable for a wide variety of crops, producing the highest yields. NRCS designates unique soils in conjunction with the state and county to recognize soils suited for growing a specialty crop of state or local importance, e.g., the soils on the southern Oregon coast used for growing cranberries, the foothill soils on the margins of the Willamette Valley used for growing wine grapes, and the organic soils in the Willamette Valley used for growing onions. Lane County has not requested the designation of any unique soils. Class I and II are land capability classes—the soils in them have the fewest limitations for crop growth and so are the most valuable for agriculture. Refer to the description of Land Capability Class (immediately above) for more information.

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Map Symbol	Soil Map Unit	Agricultural Capability Class	High Value Farmland
01A	Abiqua silty clay loam, 0 - 3% slopes	1	X
01B	Abiqua silty clay loam, 3 - 5% slopes	2	X
02E	Astoria silt loam, 5 - 30% slopes	6	
03E	Astoria Variant silt loam, 3 - 30% slopes	6	
05	Awbrig silty clay loam	4	X
08	Bashaw clay	4	X
11C	Bellpine silty clay loam, 3 - 12% slopes	3	X
11D	Bellpine silty clay loam, 12 - 20% slopes	3	X
11E	Bellpine silty clay loam, 20 - 30% slopes	4	X
11F	Bellpine silty clay loam, 30 - 50% slopes	6	
12E	Bellpine cobbly silty clay loam, 2 - 30% slopes	4	
13A	Nekoma-Fluvaquents complex, 0 - 3% slopes	3	
13F	Blachly clay loam, 30 - 50% slopes	6	
13G	Blachly clay loam, 50 - 70% slopes	7	
14E	Blachly silty clay loam, 3 - 30% slopes	6	
14F	Blachly silty clay loam, 30 - 50% slopes	6	
15E	Blachly-McCully clay loam, 3 - 30% slopes	6	
16F	Bohannon gravelly loam, 25 - 50% slopes	6	
16H	Bohannon gravelly loam, 50 - 90% slopes	7	
17	Brallier muck, drained	4	
18	Brallier Variant muck	5	
19	Brenner silty clay loam	3	X
20B	Briedwell cobbly loam, 0 - 7% slopes	3	X
21B	Bullards-Ferrelo loams, 0 - 7% slopes	3	
21C	Bullards-Ferrelo loams, 7 - 12% slopes	3	
21E	Bullards-Ferrelo loams, 12 - 30% slopes	4	
21G	Bullards-Ferrelo loams, 30 - 60% slopes	6	
22	Camas gravelly sandy loam, occasionally flooded	4	
23	Camas-Urban land complex	4	
24	Chapman loam	1	X
25	Chapman-Urban land complex	1	X
26	Chehalis silty clay loam, occasionally flooded	2	X
27	Chehalis-Urban land complex	2	X
28C	Chehulpum silt loam, 3 - 12% slopes	6 *	
28E	Chehulpum silt loam, 12 - 40% slopes	6	
29	Cloquato silt loam	2	X
30	Cloquato-Urban land complex	2	X
31	Coburg silty clay loam	2	X

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Map Symbol	Soil Map Unit	Agricultural Capability Class	High Value Farmland
32	Coburg-Urban land complex	2	X
33	Conser silty clay loam	3	X
34	Courtney gravelly silty clay loam	4	X
36D	Cumley silty clay loam, 2 - 20% slopes	6	
37C	Cupola cobbly loam, 3 - 12% slopes	6	
37E	Cupola cobbly loam, 12 - 30% slopes	6	
38	Dayton silt loam, clay substratum	4	X
39E	Digger gravelly loam, 10 - 30% slopes	6	
39F	Digger gravelly loam, 30 - 50% slopes	6	
40H	Digger-Rock outcrop complex, 50 - 85% slopes	7	
41C	Dixonville silty clay loam, 3 - 12% slopes	3	
41E	Dixonville silty clay loam, 12 - 30% slopes	4	
41F	Dixonville silty clay loam, 30 - 50% slopes	6	
42E	Dixonville-Hazelair-Urban land complex, 12 - 35% slopes	4	
43C	Dixonville-Philomath-Hazelair complex, 3 - 12% slopes	3	
43E	Dixonville-Philomath-Hazelair complex, 12 - 35% slopes	4	
44	Dune land	8	
45C	Dupee silt loam, 3 - 20% slopes	3	
46	Eilertsen silt loam	2	X
47E	Fendall silt loam, 3 - 30% slopes	6	
48	Fluvents, nearly level	7	
49E	Formader loam, 3 - 30% slopes	6	
49G	Formader loam, 30 - 60% slopes	6	
50G	Formader-Hembre-Klickitat complex, 50 - 80% slopes	7	
51B	Haflinger-Jimbo complex, 0 - 5% slopes	6	
52B	Hazelair silty clay loam, 2 - 7% slopes	3	
52D	Hazelair silty clay loam, 7 - 20% slopes	4	
53	Heceta fine sand	4	
54D	Hembre silt loam, 5 - 25% slopes	6	
54G	Hembre silt loam, 25-60% slopes	6	
55E	Hembre-Klickitat complex, 3 - 30% slopes	6	
55G	Hembre-Klickitat complex, 30 - 60% slopes	6	
56	Holcomb silty clay loam	3	X[1]
58D	Honeygrove silty clay loam, 3 - 25% slopes	6	
58F	Honeygrove silty clay loam, 25 - 50% slopes	6	
59E	Hullt loam, 2 - 30% slopes	3	X
59G	Hullt loam, 30 - 60% slopes	6	
61	Jimbo silt loam	1	X

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Map Symbol	Soil Map Unit	Agricultural Capability Class	High Value Farmland
62B	Jimbo-Haflinger complex, 0 - 5% slopes	1	X
63C	Jory silty clay loam, 2 - 12% slopes	2	X
63D	Jory silty clay loam, 12 - 20% slopes	3	X
63E	Jory silty clay loam, 20 - 30% slopes	4	X
65G	Kilchis stony loam, 30 - 60% slopes	6	
65H	Kilchis stony loam, 60 - 90% slopes	7	
66D	Kinney cobbly loam, 3 - 20% slopes	6	
67F	Kinney cobbly loam, 20 - 50% north slopes	6	
67G	Kinney cobbly loam, 50 - 70% north slopes	7	
68G	Kinney cobbly loam, 50 - 70% south slopes	7	
69E	Kinney cobbly loam, slump, 3 - 30% slopes	6	
70E	Klickitat stony loam, 3 - 30% slopes	6	
71F	Klickitat stony loam, 30 - 50% north slopes	6	
71G	Klickitat stony loam, 50 - 75% north slopes	7	
72F	Klickitat stony loam, 30 - 50% south slopes	6	
72G	Klickitat stony loam, 50 - 75% south slopes	7	
73	Linslaw loam	3	X[1]
74B	Lint silt loam, 0 - 7% slopes	3	
74C	Lint silt loam, 7 - 12% slopes	3	
74D	Lint silt loam, 12 - 20% slopes	3	
74E	Lint silt loam, 20 - 40% slopes	4	
75	Malabon silty clay loam	1	X
76	Malabon-Urban land complex	1	X
77B	Marcola cobbly silty clay loam, 2 - 7% slopes	4	
78	McAlpin silty clay loam	2	X
79	McBee silty clay loam	3	X[2]
80F	McCully clay loam, 30 - 35% slopes	6	
80G	McCully clay loam, 50 - 70% slopes	7	
81D	McDuff clay loam, 3 - 25% slopes	6	
81F	McDuff clay loam, 25 - 50% slopes	6	
81G	McDuff clay loam, 50 - 70% slopes	7	
82C	Meda loam, 2 - 12% slopes	3	X
83B	Minniece silty clay loam, 0 - 8% slopes	6	
85	Natroy silty clay loam	4	X
86	Natroy silty clay	4	X
87	Natroy-Urban land complex	4	X
88	Nehalem silt loam	2	X
89C	Nekia silty clay loam, 2 - 12% slopes	3	X

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Map Symbol	Soil Map Unit	Agricultural Capability Class	High Value Farmland
89D	Nekia silty clay loam, 12 - 20% slopes	3	X
89E	Nekia silty clay loam, 20 - 30% slopes	4	
89F	Nekia silty clay loam, 30 - 50% slopes	6	
90	Nekoma silt loam	3	
91D	Neskowin silt loam, 12 - 20% slopes	6	
91E	Neskowin silt loam, 20 - 40% slopes	6	
92G	Neskowin-Salander silt loams, 40 - 60% slopes	6	
93	Nestucca silt loam	3	
94C	Netarts fine sand, 3 - 12% slopes	6	
94E	Netarts fine sand, 12 - 30% slopes	6	
95	Newberg fine sandy loam	2	X[4]
96	Newberg loam	2	X[4]
97	Newberg-Urban land complex	2	X
98	Noti loam	4	X
99H	Ochrepts and Umbrepts, very steep	6	
100	Oxley gravelly silt loam	3	
101	Oxley-Urban land complex	3	
102C	Panther silty clay loam, 2 - 12% slopes	6	
103C	Panther-Urban land complex, 2 - 12% slopes	6	
104E	Peavine silty clay loam, 3 - 30% slopes	6	
104G	Peavine silty clay loam, 30 - 60% slopes	6	
105A	Pengra silt loam, 1 - 4% slopes	3	X[1]
106A	Pengra-Urban land complex, 1 - 4% slopes	3	
107C	Philomath silty clay, 3 - 12% slopes	6	
108F	Philomath cobbly silty clay, 12 - 45% slopes	6	
109F	Philomath-Urban land complex, 12 - 45% slopes	6	
110	Pits	8	
111D	Preacher loam, 0 - 25% slopes	6	
111F	Preacher loam, 25 - 50% slopes	6	
112G	Preacher-Bohannon-Slickrock complex, 50 - 75% slopes	7	
113C	Ritner cobbly silty clay loam, 2 - 12% slopes	4	
113E	Ritner cobbly silty clay loam, 12 - 30% slopes	6	
113G	Ritner cobbly silty clay loam, 30 - 60% slopes	7	
115H	Rock outcrop-Kilchis complex, 30 - 90% slopes	8	
116G	Rock outcrop-Witzel complex, 10 - 70% slopes	8	
117E	Salander silt loam, 12 - 30% slopes	6	
118	Salem gravelly silt loam	2	X
119	Salem-Urban land complex	2	X

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Map Symbol	Soil Map Unit	Agricultural Capability Class	High Value Farmland
120B	Salkum silt loam, 2 - 6% slopes	2	X
121B	Salkum silty clay loam, 2 - 8% slopes	2	X
121C	Salkum silty clay loam, 8 - 16% slopes	3	X
122	Saturn clay loam	3	
123	Sifton gravelly loam	3	X
124D	Slickrock gravelly loam, 3 - 25% slopes	6	
124F	Slickrock gravelly loam, 25 - 50% slopes	6	
125C	Steiwer loam, 3 - 12% slopes	3	
125D	Steiwer loam, 12 - 20% slopes	4*	
125F	Steiwer loam, 20 - 50% slopes	6	
126F	Tahkenitch loam, 20 - 45% slopes	6	
126G	Tahkenitch loam, 45 - 75% slopes	7	
127C	Urban land-Hazelair-Dixonville complex, 3 - 12% slopes	4	
128B	Veneta loam, 0 - 7% slopes	2	X
129B	Veneta Variant silt loam, 0 - 7% slopes	2	X
130	Waldo silty clay loam	3	
131C	Waldport fine sand, 0 - 12% slopes	6	
131E	Waldport fine sand, 12 - 30% slopes	7	
131G	Waldport fine sand, 30 - 70% slopes	7	
132E	Waldport fine sand, thin surface, 0 - 30% slopes	7	
133C	Waldport-Urban land complex, 0 - 12% slopes	6	
134	Wapato silty clay loam	3	X[3]
135C	Willakenzie clay loam, 2 - 12% slopes	3	X
135D	Willakenzie clay loam, 12 - 20% slopes	3	X
135E	Willakenzie clay loam, 20 - 30% slopes	4	X
135F	Willakenzie clay loam, 30 - 50% slopes	6	
136	Willanch fine sandy loam	3	
138E	Witzel very cobbly loam, 3 - 30% slopes	6	
138G	Witzel very cobbly loam, 30 - 75% slopes	6	
139	Woodburn silt loam	2	X
140	Yaquina loamy fine sand	4	
141	Yaquina-Urban land complex	4	
2024A	Malabon silty clay loan, rarely flooded, 0 - 3% slopes	2	X
2025A	Coburg silty clay loam, rarely flooded, 0 - 3% slopes	2	X
2208B	McAlpin silty clay loam, 3 to 6% slopes	2	X
2718E	Jory-Nekia complex, 20 to 30% slopes	4	
2733C	Willakenzie loam, 2 to 12% slopes	3	X
2733E	Willakenzie loam, 2 - 12% slopes	4	X

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Map Symbol	Soil Map Unit	Agricultural Capability Class	High Value Farmland
2752C	Bellpine-Jory complex, 2 to 12% slopes	3	X
2752D	Bellpine-Jory complex, 12 to 20% slopes	3	X
2752E	Bellpine-Jory complex, 20 to 30% slopes	4	X
2754 C	Jory silty clay loam, sediments. 2 to 12% slopes	2	X
2754D	Jory silty clay loam, sediments 12 to 20% slopes	3	X
*	Indicates soils which have an irrigated capability class which is different from the non-irrigated capability class.		
X[1]	Only drained areas are high value farmland.		
X[2]	Only areas protected from flooding or not frequently flooded during the growing season are high value farmland.		
X[3]	Only drained areas that are either protected from flooding or not frequently flooded during the growing season are high value farmland.		
X[4]	Only irrigated areas are high value farmland.		