

2022 Oregon Structural Specialty Code (OSSC) Amendments

Design wind speeds in special wind regions

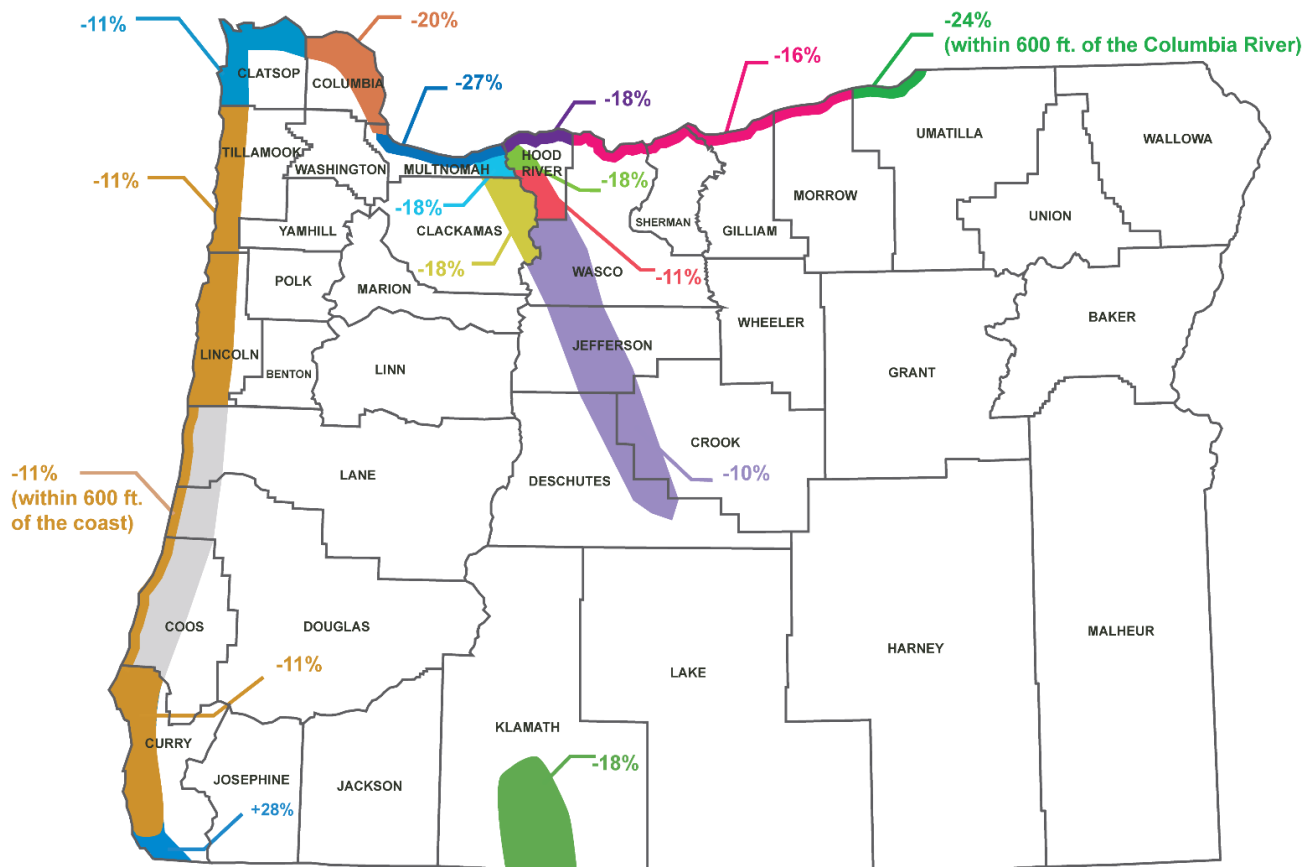
Effective: Oct. 1, 2023

Amendment summary:

The following amendments are adopted to update the design wind speeds in special wind regions based on the information from an independent study conducted by CPP Wind Engineering Consultants.

These amendments became effective Oct. 1, 2023.

The following is not included in the code, but is shown here to illustrate the changes of design wind speed in each region.



The changes are denoted as follows:

- Blue/underline: Added code language
- ~~Red/strikethrough:~~ Deleted code language

**TABLE 1609.3
BASIC DESIGN WIND SPEED, V, FOR RISK CATEGORY I, II, III AND IV BUILDINGS AND OTHER STRUCTURES**

COUNTY	RISK CATEGORY I BASIC DESIGN WIND SPEED, V (MPH)	RISK CATEGORY II BASIC DESIGN WIND SPEED, V (MPH)	RISK CATEGORY III BASIC DESIGN WIND SPEED, V (MPH)	RISK CATEGORY IV BASIC DESIGN WIND SPEED, V (MPH)
Baker	97	103	110	114
Benton	90	96	102	107
Clackamas	92	98	105	109
Clackamas special wind region ^a	115 <u>92</u>	120 <u>98</u>	130 <u>105</u>	130 <u>109</u>
Clatsop	91	96	102	107
Clatsop special wind region ^a	125 <u>115</u>	135 <u>120</u>	145 <u>130</u>	145 <u>135</u>
Columbia	91	97	103	107
Columbia special wind region ^a	115 <u>91</u>	120 <u>97</u>	130 <u>103</u>	130 <u>107</u>
Coos	89	95	101	106
Coos special wind region ^{a,b}	115 ^b	120 ^b	130 ^b	130 ^b <u>135</u>
Crook	93	100	106	111
Crook special wind region ^a	100 <u>93</u>	110 <u>100</u>	115 <u>106</u>	115 <u>111</u>
Curry	88	94	101	105
Curry special wind region ^a	125 <u>115</u>	135 <u>120</u>	145 <u>130</u>	145 <u>135</u>
Deschutes	93	99	106	110
Deschutes special wind region ^a	100 <u>93</u>	110 <u>99</u>	115 <u>106</u>	115 <u>110</u>
Douglas	91	97	103	108
Douglas special wind region ^{a,b}	115 ^b	120 ^b	130 ^b	130 ^b <u>135</u>
Gilliam ^d	94 ^d	100 ^d	107 ^d	111 ^d
Grant	95	101	108	113
Harney	94	101	108	112
Hood River ^e	92 ^e	98 ^e	105 ^e	109 ^e
Hood River special wind region^a	<u>92</u>	<u>98</u>	<u>105</u>	<u>109</u>
Hood River N.45.5° special wind region^{a,e}	115 ^e	120 ^e	130 ^e	130 ^e
Hood River S.45.5° special wind region^a	100	110	115	115
Jackson	90	96	103	107
Jefferson	93	99	106	110
Jefferson special wind region ^a	100 <u>93</u>	110 <u>99</u>	115 <u>106</u>	115 <u>110</u>
Josephine	89	95	102	106
Klamath	91	98	104	108
Klamath special wind region ^a	115 <u>91</u>	120 <u>98</u>	130 <u>104</u>	130 <u>108</u>
Lake	93	99	106	111
Lane	91	98	105	110
Lane special wind region ^{a,b}	115 ^b	120 ^b	130 ^b	130 ^b <u>135</u>
Lincoln	90	96	102	106
Lincoln special wind region ^a	125 <u>115</u>	135 <u>120</u>	145 <u>130</u>	145 <u>135</u>
Linn	92	98	104	108
Malheur	96	102	109	113
Marion	92	98	104	108
Morrow ^d	94 ^d	101 ^d	108 ^d	112 ^d
Multnomah ^e	92 ^e	98 ^e	105 ^e	110 ^e
Multnomah special wind region ^{a,e}	115 ^e <u>92</u>	120 ^e <u>98</u>	130 ^e <u>105</u>	130 ^e <u>110</u>
Polk	90	97	103	107
Sherman ^d	93 ^d	99 ^d	106 ^d	111 ^d
Tillamook	91	96	102	107
Tillamook special wind region ^a	125 <u>115</u>	135 <u>120</u>	145 <u>130</u>	145 <u>135</u>
Umatilla ^e	95 ^e	102 ^e	109 ^e	113 ^e
Union	96	102	109	113
Wallow ^a	97	103	110	115
Wasco ^d	93 ^d	99 ^d	106 ^d	110 ^d
Wasco special wind region ^a	100 <u>93</u>	110 <u>99</u>	115 <u>106</u>	115 <u>110</u>

TABLE 1609.3—continued
BASIC DESIGN WIND SPEED, V, FOR RISK CATEGORY I, II, III AND IV BUILDINGS AND OTHER STRUCTURES

COUNTY	RISK CATEGORY I BASIC DESIGN WIND SPEED, V (MPH)	RISK CATEGORY II BASIC DESIGN WIND SPEED, V (MPH)	RISK CATEGORY III BASIC DESIGN WIND SPEED, V (MPH)	RISK CATEGORY IV BASIC DESIGN WIND SPEED, V (MPH)
Washington	91	97	103	107
Wheeler	94	100	107	111
Yamhill	91	97	103	107

For SI: 1 mile per hour = 0.45 m/s.

a. Refer to Figure 1609.3 for mapped special wind regions.

- b. The basic design wind speed for buildings and structures in this region with full exposure (wind exposure category D) to Ocean winds shall be 125 mph for Risk Category I, 135 mph for Risk Category II, and 145 mph for Risk Categories III and IV.
- c. The basic design wind speed for buildings and structures in this region with full exposure (wind exposure category D) to Columbia River Gorge winds shall be 125 mph for Risk Category I, 135 mph for Risk Category II, and 145 mph for Risk Categories III and IV.
- d. The basic design wind speed for buildings and structures in this region with full exposure (wind exposure category D) to Columbia River Gorge winds shall be 115 mph for Risk Category I, 120 mph for Risk Category II, and 130 mph for Risk Categories III and IV.

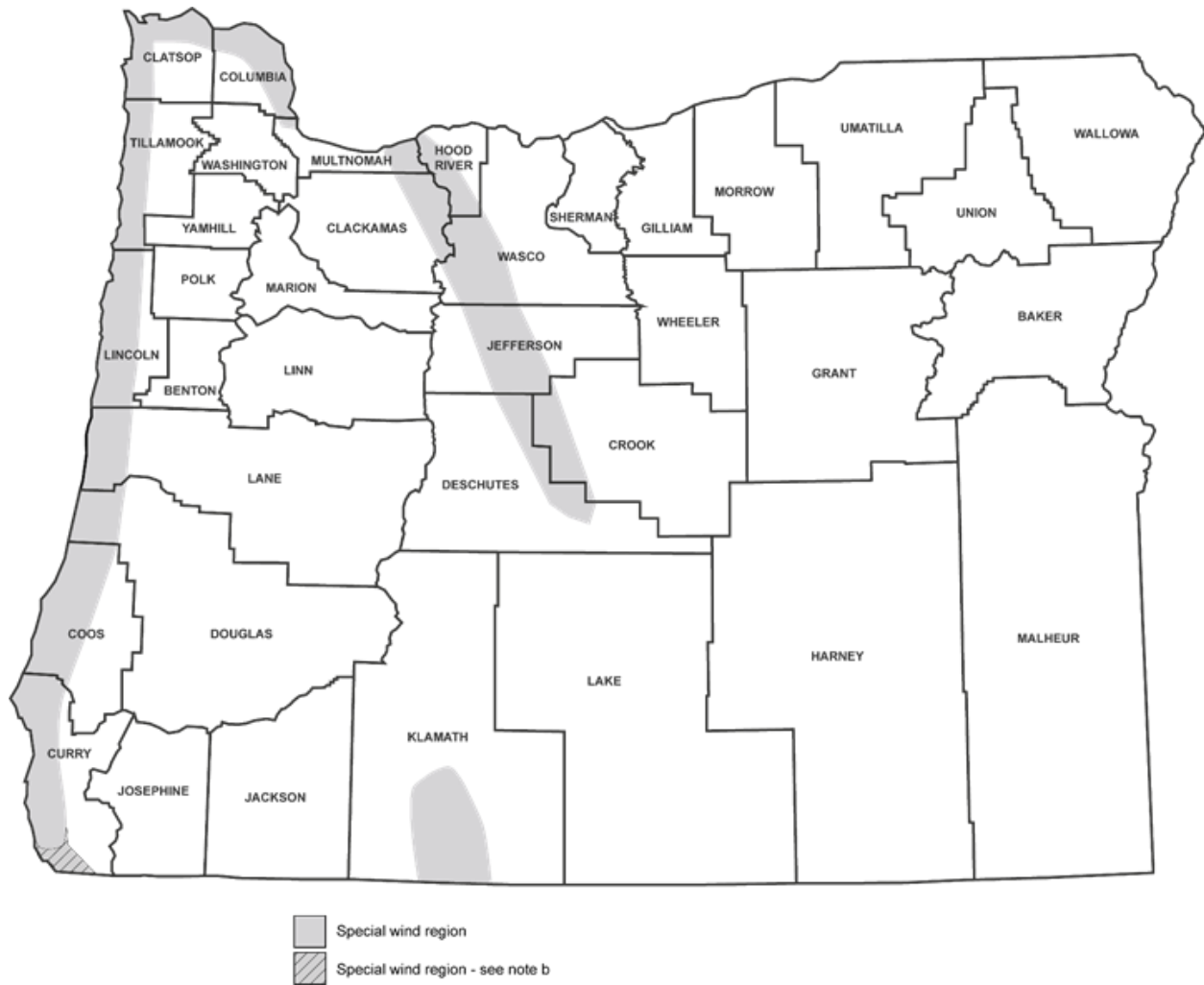


FIGURE 1609.3
SPECIAL WIND REGIONS – OREGON ^{a, b}

- a. Sites on the perimeter periphery of the identified special wind regions shall be verified using <https://hazards.atcouncil.org>; [the ASCE 7 Hazard Tool: https://asce7hazardtool.online](https://asce7hazardtool.online).
- b. ~~Basic design wind speeds shall be obtained from Table 1609.3; see Notes b, c and d for buildings and structures with full exposure (wind exposure category D) to Ocean or Columbia River Gorge winds.~~
- b. This portion of the special wind region in Curry County extends 15 miles inland from the Pacific Coast and is not identified on the ASCE 7 Hazard Tool.