Population Density Map of Lincoln County, Oregon

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Data Sources:
Roads: Oregon Department of Transportation (2014)
City limits: Oregon Department of Transportation (2014)

Cartography by: Lowell H. Anthony, 2018

Projection: NAD 1983 UTM Zone 10N
Software: Esri ArcMap 10, Adobe Illustrator CS6

This map is an overview map and not intended to provide details at the community scale. The GIS data that is published with the Lincoln County Natural Hazard Risk Assessment can be used to inform regarding queries at the community scale.

People per 20 acres
- Building(s) present
- no permanent residents
- 0 - 10
- 11 - 20
- 21 - 40
- 41 - 80
- 81 +

Population

<table>
<thead>
<tr>
<th>Place</th>
<th>Count</th>
<th>Number of People</th>
<th>People per 20 acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincoln County (rural)*</td>
<td></td>
<td>5,000</td>
<td></td>
</tr>
<tr>
<td>Otts - Rose Lodge*</td>
<td></td>
<td>1,926</td>
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</tr>
<tr>
<td>Otter Rock*</td>
<td></td>
<td>489</td>
<td></td>
</tr>
<tr>
<td>Salishan - Lincoln Beach*</td>
<td></td>
<td>2,093</td>
<td></td>
</tr>
<tr>
<td>Seal Beach - Bayshore*</td>
<td></td>
<td>2,766</td>
<td></td>
</tr>
<tr>
<td>Wakonda Beach*</td>
<td></td>
<td>1,326</td>
<td></td>
</tr>
<tr>
<td>Depoe Bay*</td>
<td></td>
<td>1,398</td>
<td></td>
</tr>
<tr>
<td>Lincoln City</td>
<td></td>
<td>7,930</td>
<td></td>
</tr>
<tr>
<td>Newport</td>
<td></td>
<td>9,989</td>
<td></td>
</tr>
<tr>
<td>Siletz</td>
<td></td>
<td>1,149</td>
<td></td>
</tr>
<tr>
<td>Siletz Tribe</td>
<td></td>
<td>3,465</td>
<td></td>
</tr>
<tr>
<td>Toledo</td>
<td></td>
<td>488</td>
<td></td>
</tr>
<tr>
<td>Waldport</td>
<td></td>
<td>2,033</td>
<td></td>
</tr>
<tr>
<td>Yachats</td>
<td></td>
<td>690</td>
<td></td>
</tr>
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<td></td>
<td>690</td>
<td></td>
</tr>
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</table>

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M9.0 CSZ Earthquake Shaking Map of Lincoln County, Oregon

Peak Ground Acceleration (PGA) is the maximum acceleration in a given location or rather how hard the ground is shaking during an earthquake. It is one measurement of ground motion, which is closely associated with the level of damage that occurs from an earthquake.

Data Sources:
- Earthquake peak ground acceleration: Madin and Barnes (2013)
- Roads: Oregon Department of Transportation (2014)
- City limits: Oregon Department of Transportation (2014)

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The flood hazard data show areas expected to be inundated during a 100-year flood event. Flooding sources include riverine. Areas are consistent with the regulatory flood zones depicted in Lincoln County’s Digital Flood Insurance Rate Maps.

**Ratio of Estimated Loss to Flooding**

- **10-Year**
- **50-Year**
- **100-Year**
- **500-Year**

**Flood Hazard Zone**

100-Year Flood (1% annual chance)

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Data Sources:
- Flood hazard zone (100-year): Lincoln County Flood Insurance Rate Map (2018)
- Roads: Oregon Department of Transportation (2014)
- City limits: Oregon Department of Transportation (2014)
- Projection: NAD 1983 UTM Zone 10N
- Software: Esri® ArcMap 10, Adobe® Illustrator CS6

Cartography by: Lowell H. Anthony, 2018

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Oregon Department of Geology and Mineral Industries Open-File Report O-20-11

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Landslide Susceptibility Map of Lincoln County, Oregon

Landslide susceptibility is categorized as Low, Moderate, High, and Very High which describes the general level of susceptibility to landslide hazard. The dataset is an aggregation of three primary sources: landslide inventory (SLIDO), generalized geology, and slope.

Percentage of Building Value Exposed to Landslide

Landslide Susceptibility

Low
Moderate
High
Very High

Exposure percentage
0%
50%
100%

Lincoln County (rural)
Ottis - Rose Lodge
Otter Rock
Salishan - Lincoln Beach
Seal Beach - Bayshore
Wakonda Beach
Depoe Bay
Lincoln City
Newport
Siletz
Siletz Tribe
Toledo
Waldport
Yachats

*Unincorporated

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Data Sources:
Landslide susceptibility: Oregon Department of Geology, Burns and others (2016)
Roads: Oregon Department of Transportation (2014)
City limits: Oregon Department of Transportation (2014)
Projection: SAD 1983 UTM Zone 10N
Software: ArcGIS 10, Adobe Illustrator CS6
Cartography by: Lowell H. Anthony, 2018

Landslide Susceptibility

Low
Moderate
High
Very High
Wildfire Risk is categorized as Low, Moderate, and High and indicates the level of risk a location has to wildfire hazard. The Wildfire Risk data layer (Fire Risk Index) is derived from a combination of the Fire Threat Index (fire history and behavior) and the Fire Effects Index (infrastructure and assets).

**Wildfire Risk Map of Lincoln County, Oregon**

Wildfire Risk Map of Lincoln County, Oregon

**Percentage of Building Value Exposed to Wildfire**

<table>
<thead>
<tr>
<th>Location</th>
<th>Low</th>
<th>Moderate</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincoln County (rural)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Otis - Rose Lodge*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Otter Rock*</td>
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<td></td>
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</tr>
<tr>
<td>Yachats</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Unincorporated

**Wildfire Risk**

- Low
- Moderate
- High

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Data Sources:
- Wildfire risk data: Oregon Department of Forestry, Sanborn Map Company Inc. (2013)
- Roads: Oregon Department of Transportation (2014)
- City limits: Oregon Department of Transportation (2014)

Projection: NAD 1983 UTM Zone 10N

Software: Esri® ArcMap 10, Adobe® Illustrator CS6

Cartography by: Lowell H. Anthony, 2018

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Tsunami Inundation Map of Lincoln County, Oregon

The tsunami hazard data show areas of expected inundation from several local tsunami scenarios produced from a magnitude 9.0 CSZ earthquake. The scenarios were categorized based on "t-shirt" sizes, ranging from Small to XX-Large.

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Data Sources:
- Tsunami hazard zones: Oregon Department of Geology, Priest and others (2013)
- Roads: Oregon Department of Transportation (2014)
- City limits: Oregon Department of Transportation (2014)

Projection: SAD 1983 UTM Zone 10N
Software: KML, ArcMap 10, Adobe Illustrator CS6
Cartography by: Lowell H. Anthony, 2018

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