

Winter Level of Service Standards for County Roads

Klamath County Public Works, November, 2020 (revised)

*NOTE: This standard provides guidance for **normal and routine winter events**. Klamath County is not resourced with staff and equipment to maintain county roads at the standards described in this document for large winter storms and widespread events. During large winter events, county road conditions will fall below the standards outlined in this document.*

Public Works is staffed during the daytime only with operating hours of 7:00 am to 3:30 pm. Overtime can be used during large storm events to expand operations to occur between 4:00 am and 4:00 pm.

Public Works plows the paved or gravel travel lanes only. Sidewalks and driveways are the responsibility of the property owner. Property owners should exercise caution during the removal of snow and ice from sidewalks and driveways. Keep in mind, if damage occurs to the road, sidewalk, curb or chip seal surface from the private use of plows or snow removal devices, the property owner may be charged a repair fee. In addition, privately operated snow plows on public roads may be charged repair fees for damage to the streets, chip seals, curbs, sidewalks, etc. Snow from driveways and sidewalks shall not be plowed into the roads, accidents may occur and a legal liability may be placed on the individuals who placed the snow and ice in the roadway.

Please be patient during the winter months. In any given storm event there are a number of unforeseen incidents that may delay County plows and graders. For instance, every year County plows are delayed from trees that fall into the roadways, car accidents blocking traffic, equipment breakdowns and equipment that gets stuck in the turnarounds and road shoulders. It takes several hours to dispatch spare equipment and operators in addition to staff to fix or tow stuck vehicles.

See attached maps (Exhibit "A" sheets 1 through 3) for locations of County roads and winter level of service. This information is also available in GIS format on the Public Works website. See Exhibit "B" for a spreadsheet list.

- * The Road Official will coordinate with County Commissioners during large events (emergency conditions) to determine if both parties feel it is beneficial to call in contractors to assist with snow removal in the urban growth boundary. It is not cost effective for the County to have staff and equipment all year around for events that only occur every 4 to 6 years. Digging out of a major storm in the suburb becomes an issue when there is not anywhere to store the snow in the roadway. Plowing, loading snow, and clearing driveways takes upwards of 3 days and can cost \$250,000.00.

Level of Service (LOS)	Description of Roadway Treatment and Actions	Expected Road Conditions
LOS A (1=yellow)	<ol style="list-style-type: none"> 1. Staffing with <i>overtime may be used</i>. 2. Snow should be removed during regularly scheduled shift. 3. Snow pack should be sanded on grades, curves, ramps, and bridges which are known problem areas. 	<ul style="list-style-type: none"> • Travelers may encounter bare wheel tracks. • Snow and ice buildup encountered regularly both during and following a storm. • Travelers likely to experience delays, slow speeds, and short-term closures. • County Road closures may occur during a storm.
LOS B (2=pink)	<ol style="list-style-type: none"> 1. Staffing with <i>overtime may be used</i>. 2. Snow should be removed during regularly scheduled shift. 	<ul style="list-style-type: none"> • Travelers may encounter bare wheel tracks. • Snow and ice buildup encountered regularly both during and following a storm. • Travelers likely to experience delays, slow speeds, and short-term closures. • County Road closures may occur during a storm.
LOS C (3=green)	<ol style="list-style-type: none"> 1. Staffing with <i>overtime may be used</i>. 2. Snow should be removed during regularly scheduled shift. 	<ul style="list-style-type: none"> • Snow and ice buildup encountered regularly both during and following a storm. • Closed seasonally and/or periodically due to road conditions. • Heavy snow and ice buildup encountered regularly both during and following a storm.

Level of Service	Description of Roadway Treatment and Actions	Expected Road Conditions
LOS D (4=orange)	<ol style="list-style-type: none"> Staffing with <i>overtime should be minimized.</i> County Roads should be closed when conditions dictate. 	<ul style="list-style-type: none"> Closed <u>seasonally</u> and/or periodically due to road conditions. Heavy snow and ice buildup encountered regularly both during and following a storm.
LOS E1 * (5=purple)	<ol style="list-style-type: none"> Staffing with <i>overtime may be used.</i> Snow will be plowed when there is 4 inches plus of snow with more snow in the forecast. Measurements of snow are utilized during the actual event (not forecast amount) to determine the appropriate response. Snow will be plowed to the center of three lane streets. Snow pack on steep grades, all main intersections, as well as areas in front of schools and bridges should be sanded. 	<ul style="list-style-type: none"> Travelers may encounter bare wheel tracks. Heavy snow and ice buildup encountered regularly both during and after a storm. <p>Equipment Utilized</p> <ul style="list-style-type: none"> Regular storm events: up to four F-450 plow/sanders. Large storm events (2 to 4 years in between): up to four F-450's and one (1) road grader. Emergency storm events: (4 to 6 years in between): same as large event plus graders, loaders, plows, dump truck, etc. by contractors.
LOS E2 (Local Access)* (6=light blue)	<ol style="list-style-type: none"> Staffing with <i>overtime may be used.</i> Snow will be plowed when there is 6 to 8 inches plus of snow with more snow in the forecast. Measurements of snow occurs during the event (not forecast amount) to determine the appropriate response. Snow will be plowed to the edge of the road. Snow pack on steep grades, all main intersections, as well as areas in front of schools and bridges should be sanded. 	<ul style="list-style-type: none"> Travelers may encounter bare wheel tracks. Heavy snow and ice buildup encountered regularly both during and after a storm. <p>Equipment Utilized</p> <ul style="list-style-type: none"> Regular storm events: up to four F-450 plow/sanders. Large storm events (2 to 4 years in between): up to four F-450's and one (1) road grader. Emergency storm events: (4 to 6 years in between): same as large event plus graders, loaders, plows, dump truck, etc. by contractors.