



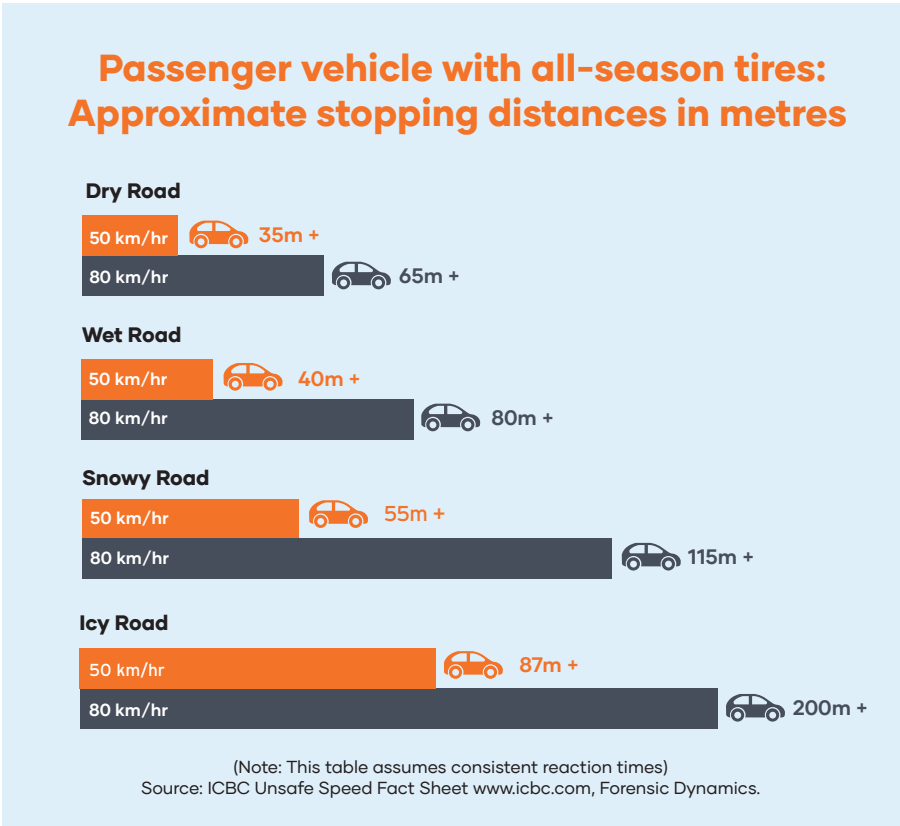
# Vehicles Take Longer to Stop in Poor Conditions

Rain, slush, snow, ice, and cold temperatures are all part of winter driving. Stopping your passenger vehicle in these conditions can be challenging, as your tires have less traction on cold and often slippery road surfaces.

For example, if you're driving on a set of all-season tires on a rain-covered road at 80 km/h, you'll need twice the distance to stop than you would when driving at 50 km/h. Not surprisingly, snow and ice covered roads create even longer stopping distances:

## All-season and summer tires are less effective in colder temperatures

All-season tires and summer tires are manufactured with a hard rubber compound designed to increase the tread life of the tire. Unfortunately, as the temperatures drop below 7°C, this compound becomes less flexible and these tires lose their ability to provide traction, even on dry roads.



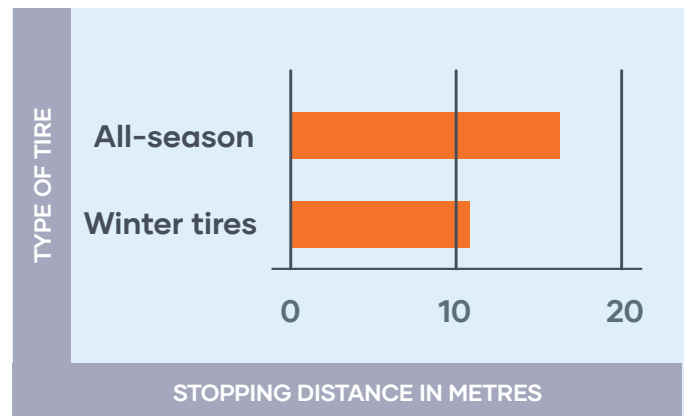
## How winter tires help



Winter tires with a 3-peaked mountain and snowflake symbol provide better traction and stopping performance than all-season tires in cold temperatures and on wet, snow, and icy roads.

Driving at just 20 km/h on an icy road, a set of four matched winter tires helps you stop 33% sooner than when driving in the same conditions on a set of all-season tires.

The soft rubber compound used in winter tires allows them to remain pliable and adhere to the road more effectively as the temperature dips below 7°C. In addition, the tread design of winter tires helps them to displace rain, snow, and slush between the tire and the road surface, further improving traction.



Source: Traffic Injury Research Foundation

## Mud and snow tires: Acceptable, but less effective

Tires with the M+S (Mud and Snow) symbol meet the minimum legal requirement for a winter tire in British Columbia. However, in severe winter conditions, they are less effective than the 3-peaked mountain and snowflake tires.



## Benefits and legal requirements

The improved traction offered by winter tires may be the difference between safely maneuvering or stopping on winter roads and being involved in a potentially serious motor vehicle incident.

Most BC highways require passenger vehicles to have winter tires with either the 3-peaked mountain and snowflake symbol or the M+S symbol during the BC winter driving season (October 1st to March 31st). All vehicle tires must be in good condition and properly maintained. Winter tires and M+S tires must have at minimum tread depth of 3.5 mm (5/32").

For more information on winter driving safety, visit [RoadSafetyAtWork.ca/Winter](https://RoadSafetyAtWork.ca/Winter)

For information on highway conditions, visit [DriveBC.ca](https://DriveBC.ca)

Disclaimer. The information in this document does not take the place of professional occupational health and safety advice and is not guaranteed to meet the requirements of applicable laws, regulations, and rules, including workplace health and safety laws and motor vehicle and traffic laws. The members of the Winter Driving Safety Alliance and their respective employees, officers, directors or agents (collectively the "WDSA") assume no liability for or responsibility for any loss or damage suffered or incurred by any person arising from or in any way connected with the use of or reliance upon the information contained in this document including, without limitation, any liability for loss or damage arising from the negligence or negligent misrepresentation of any of the WDSA in any way connected with the information contained in this brochure. The information provided in this document is provided on an "as is" basis. WDSA does not guarantee, warrant, or make any representation as to the quality, accuracy, completeness, timeliness, appropriateness, or suitability of any of the information provided, and disclaims all statutory or other warranties, terms, or obligations of any kind arising from the use of or reliance upon the information provided, and assumes no obligation to update the information provided or advise on future developments concerning the topics mentioned. (11-2016)