

Physical Infrastructure



Paving the Way to Resilience: Weather-Wise Roads for a Connected Saskatchewan



Saskatchewan's roadways support thousands of trips every day, and each one depends on pavement that can handle the province's shifting conditions. Heat, deep cold, rapid freeze-thaw cycles, and long stretches of dry or wet weather all test the strength of the asphalt beneath passing vehicles. To keep these roads in good shape, the Ministry of Highways draws on decades of historical information, local weather patterns and traffic data to guide each pavement design project.

This careful planning helps pavements hold up better under environmental variability. Treatments and modern technologies are chosen not only to repair existing wear but also to strengthen the surface for years ahead. By understanding when roads face their greatest stresses, whether from harvest-season truck traffic through to large temperature swings, designers can select materials and techniques that balance durability with cost-effective construction. This approach helps protect infrastructure while ensuring that communities continue to rely on safe and steady transportation routes.

Why It Matters

Roads that last longer support safer travel, reduce future repair costs and limit disruptions for residents, businesses and emergency services. Stronger pavement also supports emissions stewardship by reducing the need for frequent construction work, which lowers the emissions intensity associated with repeated repairs. By building road surfaces that can withstand Saskatchewan's natural extremes, the province is creating reliable corridors that protect the well-being of the people who depend on them every day.

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