Tire water spray-off on wet roadways greatly reduces the driver's visibility, creating dangerous driving conditions.

Poor visibility reduces the time the driver has to foresee danger and avoid a collision. Rain and wet pavement are contributing factors in **1,200,000 accidents annually** in the United States, representing 75% of all weather-related accidents. The crash risk during rainfall is 70% higher than during clear, dry conditions.

**CURTAIR IS A COMPRESSED AIR SYSTEM** that creates an air curtain around the vehicle's wheels, preventing tire spray from blinding nearby vehicles. A moisture sensor located in the mud flap detects water on the roadway and signals for the release of compressed air to the rear and exterior sides of the wheel housing.

Tire tread is designed to move water from under the tire. As the tire spins, roadway water is projected to the rear of the vehicle as well as thrown against the wheel housing, creating an obscuring mist as the water atomizes. Mud flaps alone do not adequately reduce car or truck spray-off, do not protect adjacent vehicles from the spray, and do not control the atomization of water particles.