



VDOT EQUIPMENT AND SUPPLIES 2021-2022 WINTER SEASON

The following information details the Virginia Department of Transportation's equipment, materials, budget and other data that support its preparedness and readiness for the 2021-2022 winter season and all related snow- and ice-removal activities.

EQUIPMENT

The Virginia Department of Transportation (VDOT) has more than 10,800 VDOT and contract vehicles available for snow- and ice-control activities statewide.

MATERIALS

VDOT has more than 706,000 tons of salt, sand and treated abrasives, and more than 2.4 million gallons of brine and liquid calcium chloride in stock for snow and ice removal.

Additionally, VDOT produces salt brine at some facilities. Salt brine prevents snow and ice from bonding to the pavement when used to pretreat the roads before a storm, as temperatures allow.

TECHNOLOGY

A statewide network of 77 weather sensors in roadways and bridges allows VDOT maintenance crews to quickly identify when and where road surfaces might be freezing. VDOT remains in constant coordination with state and local law enforcement authorities and has access to the National Weather Service.

PRE-TREATING ROADS AND SNOW/ICE REMOVAL

VDOT uses several methods to prevent snow and ice from sticking to the roads before a storm and to remove snow and ice after a storm. These include using various chemicals (salts) in solution (brine) to prevent a bond from forming between the pavement and the snow or ice before a storm. In addition to plowing after a storm ends, VDOT will spread abrasives on areas prone to icing, such as bridge decks.

CONTRACTORS AND STAFFING LEVELS

VDOT has more than 2,500 crewmembers for snow-removal operations statewide.

In addition, VDOT uses contractors to maintain the interstates throughout the commonwealth. Snow removal is one of the main functions of these contractors. While the contractors are required to report road conditions while removing snow, VDOT remains accountable for their performance.

VDOT includes the interstate maintenance contractors in pre-event planning sessions in advance of snowstorms. This practice enables contractors to have the necessary equipment and manpower for effective and efficient snow-removal operations. VDOT monitors their operations and immediately reports any problems it observes back to the contractor. VDOT also conducts after-action reviews with contractors, during which the agency addresses any issues or concerns.

COST

The average cost for a major statewide snow or ice storm affecting all nine VDOT districts and requiring a full mobilization is approximately \$11 million per day. VDOT has \$211 million budgeted for snow-removal activities for the winter of 2021-2022.