

Fiscal Estimate - 2021 Session

Original Updated Corrected Supplemental

LRB Number 21-3046/1	Introduction Number SB-881	
Description traffic control signal priority devices for snow removal vehicles		
Fiscal Effect		
State:		
<input type="checkbox"/> No State Fiscal Effect <input type="checkbox"/> Indeterminate <input type="checkbox"/> Increase Existing Appropriations <input type="checkbox"/> Increase Existing Revenues <input checked="" type="checkbox"/> Increase Costs - May be possible to absorb within agency's budget <input type="checkbox"/> Decrease Existing Appropriations <input type="checkbox"/> Decrease Existing Revenues <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Create New Appropriations <input type="checkbox"/> Decrease Costs		
Local:		
<input type="checkbox"/> No Local Government Costs <input checked="" type="checkbox"/> Indeterminate 1. <input checked="" type="checkbox"/> Increase Costs 3. <input type="checkbox"/> Increase Revenue <input checked="" type="checkbox"/> Permissive <input type="checkbox"/> Mandatory <input type="checkbox"/> Permissive <input type="checkbox"/> Mandatory 2. <input type="checkbox"/> Decrease Costs 4. <input type="checkbox"/> Decrease Revenue <input type="checkbox"/> Permissive <input type="checkbox"/> Mandatory <input type="checkbox"/> Permissive <input type="checkbox"/> Mandatory 5. Types of Local Government Units Affected <input checked="" type="checkbox"/> Towns <input checked="" type="checkbox"/> Village <input checked="" type="checkbox"/> Cities <input checked="" type="checkbox"/> Counties <input type="checkbox"/> Others <input type="checkbox"/> School Districts <input type="checkbox"/> WTCS Districts		
Fund Sources Affected		
<input type="checkbox"/> GPR <input type="checkbox"/> FED <input type="checkbox"/> PRO <input type="checkbox"/> PRS <input type="checkbox"/> SEG <input type="checkbox"/> SEGS		
Affected Ch. 20 Appropriations		
Agency/Prepared By	Authorized Signature	Date
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Fiscal Estimate Narratives

DOT 1/31/2022

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Description traffic control signal priority devices for snow removal vehicles		

Assumptions Used in Arriving at Fiscal Estimate

This bill allows the Department to install signal priority devices on traffic signals for snowplows. The cost of this equipment is \$5,000 per intersection. This cost assumes there is no existing signal preemption equipment in place for emergency vehicles which are already allowed to use preemption devices under state law. If existing preemption equipment for emergency vehicles is in place the cost to upgrade to allow for snowplow priority is \$2,500. There are approximately 1,060 state-owned traffic signals statewide. Of those the Department estimates that 486 will require a full install at \$5,000 per intersection for a cost of \$2,430,000. The remaining 574 state-owned traffic signals already have some preemption equipment in place for emergency vehicles, so those will require an upgrade at \$2,500 per intersection for a cost of \$1,435,000.

In addition to the equipment on the traffic signals themselves, the county snowplows will need to have signal priority equipment installed on them. The cost of this equipment is \$1,400 per truck inclusive of installation costs. The Department assumes that each of the 486 plow routes has one truck assigned to it giving a total cost of the truck mounted equipment of \$680,400.

Finally, there would be costs to train drivers on the use of signal priority devices. The Department estimates that development of training materials and providing training sessions in every region of the state would cost approximately \$20,000.

The above costs assume that all state-owned intersections and county snowplows used on state routes would receive this new signal priority equipment. It is more likely that some number of signals and county trucks would not need this equipment due to location and traffic volumes at a given intersection. However, the Department has no clear way of estimating what the actual number of intersections and snowplows that will receive this equipment will be at this time.

Long-Range Fiscal Implications

There will likely be some costs associated with maintaining the traffic signal priority equipment. Those costs are indeterminate at this time and will depend on the number of intersections and snowplows equipped with signal priority devices. Finally, these devices typically last between 10 and 15 years and would be replaced under normal lifecycle replacement.