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Supplementary Notes			
<p>Appreciations are extended to Mr. Allan Toledo for his assistance in the analyses of the GPS data and the preparations of the Tables and Figures in this report.</p>			
Abstract			
<p>Ten Basic Technologies' GTS vehicle tracking systems were installed in the contractors' snow plows in March 1997. The GTS was directly connected to the Compu-Spreader 220 to retrieve spreading information, to the pressure switches for plow information, and to a GPS receiver for location data. As part of the pilot, software was developed to generate the maintenance worksheets and to trace the vehicle's paths. Simulated and operational testing of the units started in May of 1997 and through the winter of 1997/98.</p> <p>Both the simulated testing and the comparisons between the GPS work sheets and the manually recorded worksheets showed the system to be accurate in tracking the vehicles and their work outputs. One problem was that the plow detections needed further refinements. Another major impediment was the manual handling of the memory modules – an automated downloading procedure would alleviate potential human errors.</p> <p>The current set-up will require additional software processing in order to create an automated billing system. It is recommended that the costs and benefits of creating such an automated system be evaluated by the department's operations staff.</p>			