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14. Supplementary Notes Dickinson			
15. Abstract Purpose and Need The current NDDOT standard blade replacement is carbide steel. Several new blade systems have become available. The NDDOT desires to evaluate three of these new blade systems in an effort to reduce costs and improve efficiency. Objective The objective of this project is to evaluate the field performance of three snow plow blade systems during the 2010-2011, fall through spring snow and ice season. The current NDDOT standard carbide blade system will serve as the control product for the project. Scope The Dickinson District will evaluate three different blade systems; system 1 - Carbide Steel(control), system 2 – Joma Blade system, system 3 – Polar Flex blade system and system 4 – Stacked Blade Traditional Carbide Steel. Summary The stacked carbide steel blade test showed no advantage over traditional blades and was discontinued after the first set was worn out. The Dickinson District reported that based on the results of this study and their experiences this last snow and ice removal season, they intend to expand the use of the Joma blade system. However with the issue of the blade angles being resolved they may consider also using the Polar Flex blade system. Generally speaking the District feels that these blade systems provide better cleaning performance and longer service life than the traditional carbide blade systems.			
16. Key Words Blade Systems Joma Polar Flex Cutting Edges	17. Distribution Statement No restrictions. This document is available in PDF by clicking here . North Dakota Department of Transportation Materials and Research Division: 300 Airport Road Bismarck ND 58504-6005 Office: (701) 328-6900 Fax: (701) 328-0310		18. No. of Pages 72 19. File type pdf