NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

2021 COUNTY ROAD NEEDS STUDY

County:				
Contact:				
	Name	Phone	Email	
Preparer:		Date Prepared:		

Aggregate Description

To determine the type and quality of aggregate used in your county, please check all boxes that apply. For example, if your county uses crushed, specification base gravel – select gravel, crushed material and specifications.

Gravel	
Scoria	
Pit Run	
Screened	
Crushed Material	
Specifications	
- Fractured Faces	
- PI	
- Other	
Tested	
Other	

Placement Practices

When aggregate overlays are placed in your county, please select the all practices that are used to apply an aggregate overlay.

Truck Drop and Blade	
Windrow/Equalize	
Water/Rolling/Compaction	
Reshaping	
Pulling in Shoulders	
Soft Spot Repair	
Other	

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

Operational Tasks

In this section, please provide a percentage of tasks that are done using county resources versus the percentage of work done by a contractor. For example, if your county owns the pit and does all of the crushing using county labor, 100% would be entered into the first column, and 0% in the second column.

	Performed by:	
Task	County	Contractor
Crushing		
Hauling		
Placement		
Blading		
Dust Control		
Base Stabilization		

Gravel Road Costs

Please report costs for gravel for county roads in the table below. The table asks for unit costs for graveling, maintaining, and operating gravel roads. If you are quoting contractor prices, please circle "yes" in the right-hand column.

Gravel/Scoria Cost		
Average Gravel/Scoria Cost (crushing & royalties at the pit)	Per cu. yardPer Ton	Is this Contractor Price? (yes/no)
Average Trucking Cost from Gravel Origin	Per loaded milePer cu. yardPer Ton	Is this Contractor Price? (yes/no)
Average trucking distance for aggregate	Miles one-wayMiles roundtrip	
Truck Payload	Cu. YardsTons	
Placement Costs	Per Mile	Is this Contractor Price? (yes/no)
Blading Cost	Annual cost per mile	Is this Contractor Price? (yes/no)
Dust Suppressant Costs	Per mile	Is this Contractor Price? (yes/no)
Base Stabilization Cost	Per mile	Is this Contractor Price? (yes/no)

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

Gravel Road Practices

This section asks for information regarding gravel road practices based upon differing traffic levels. Under the "Daily Traffic" row, please enter what you would consider low, medium and high traffic levels on gravel roads within your county. In the example below, low is categorized as less than 50 vehicles, medium 50-150 vehicles and high 150-350. This is expected to vary significantly from county to county, so please use your own estimates of traffic levels. Following the traffic entry, please enter the regraveling thickness, blading frequency, regraveling frequency, and whether dust suppressant or base stabilization are used at each of these traffic categories.

EXAMPLE/ENTER ACTUAL BELOW	Traffic Levels		
	Low	Medium	High
Daily Traffic (Total AADT)	>50	50-150	150-350
Average Regraveling Thickness (specify)	1,100 yd	1,500 yd	2,000 yd
Blading Frequency (# per year)	8	12	16
Regraveling Frequency (years between regraveling)	7	5	3
Dust Suppressant (yes/no)	no	no	Yes
Base Stabilization (yes/no)	no	no	Yes

County Entry	Traffic Levels		
	Low	Medium	High
Daily Traffic (Total AADT)			
Average Regraveling Thickness (specify)			
Blading Frequency (# per year)			
Regraveling Frequency (years between			
regraveling)			
Dust Suppressant (yes/no)			
Base Stabilization (yes/no)			

If you answered yes for Dust Suppressant – which type do you use?

If you answered yes for Base Stabilization – which type do you use?

Are you using Recycled Asphalt Products?

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

Gravel Road Condition

This section asks for information regarding gravel road conditions and is broken into two separate categories: Federal Aid, and Non-Federal Aid. Please provide a rough estimate of the percentage of unpaved roads by condition for these two categories.

Condition	% Federal Aid Roads (CMC)	% Non-Federal Aid Roads (non-CMC)
Very Good		
Good		
Fair		
Poor		
Total	100%	100%

Gravel Materials Specifications

If available, please attach a sample specification and sample gradation, or state materials specification number. If materials used on CMC routes differ from non-CMC routes, please provide sample specifications and gradation by system type, if available.

Comments or Suggestions (please attach additional sheets if needed):

Please return this survey in the enclosed envelope by **November 19, 2021**. Please direct any questions to Alan Dybing at 701.231.5988 or <u>countytwp@ugpti.org</u>.

"North Dakota State University does not discriminate on the basis of race, color, national origin, religion, sex, disability, age, Vietnam Era Veteran's status, sexual orientation, marital status, or public assistance status. Direct inquiries to the Vice President of Equity, Diversity, and Global Outreach, 205 Old Main, Fargo, ND 58108, (701) 231-7708."