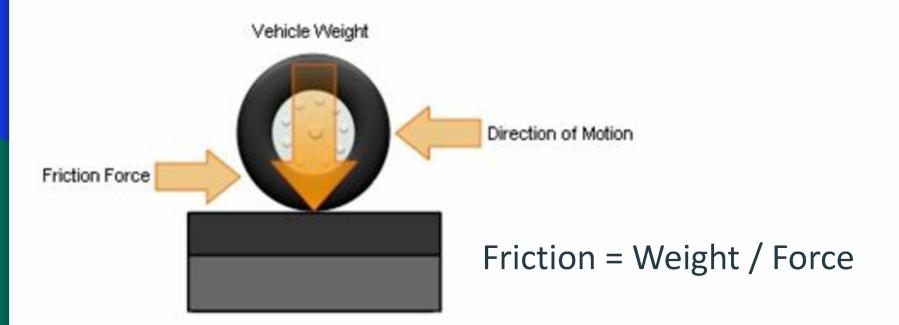
## Friction (Skid) Testing and Requests

John Cummings
Pavement A&E Section
Materials Control, Soils & Testing Division

#### **Overview**

- What is Friction?
- Friction vs Texture
- Types of Friction Testing
- Test Results and Analysis
- When and How to Request Testing

#### What is Friction?





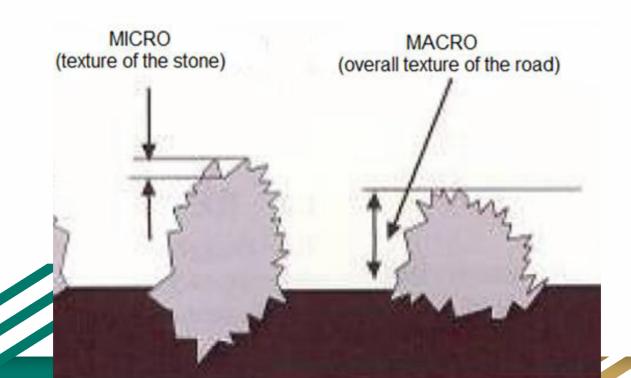
#### What is Friction Testing?



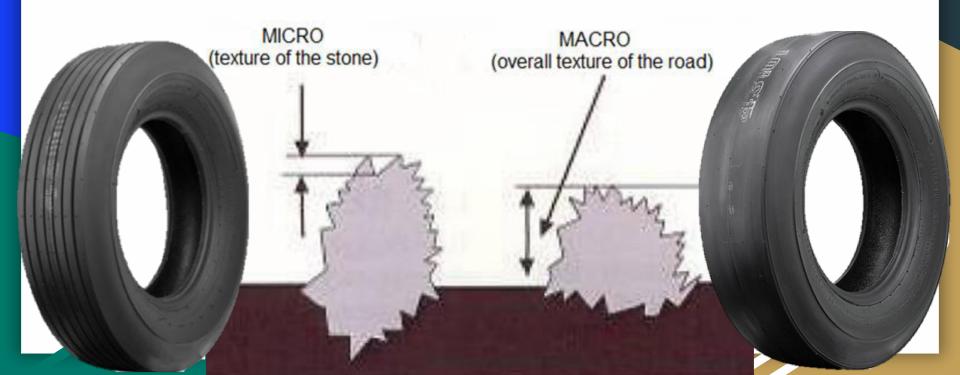
#### **Friction vs Texture**

- Friction depends on speed
- more speed demands more friction
- Texture is constant
- Microtexture felt but not seen
- Macrotexture seen but not felt

### **Friction vs Texture**



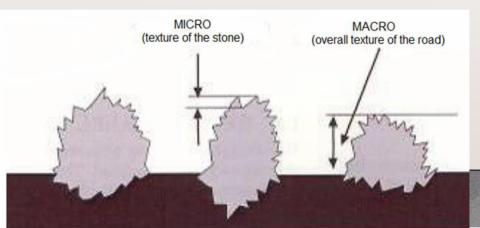
## **Friction vs Texture**





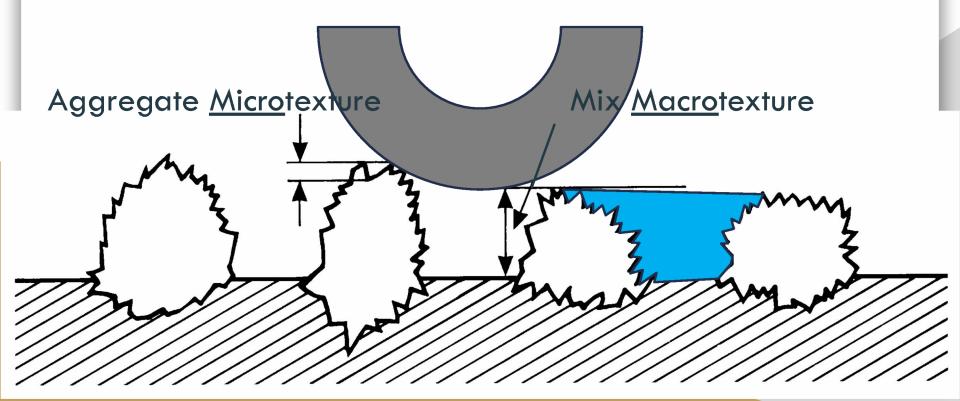
#### **Friction and Texture**

- Friction is speed dependent, texture is not.
- Types of Texture:
  - Microtexture: Not visible to naked eye,
     Ribbed tire more sensitive to micro.
  - Macrotexture: Visible to naked eye,
     Smooth tire more sensitive to macro

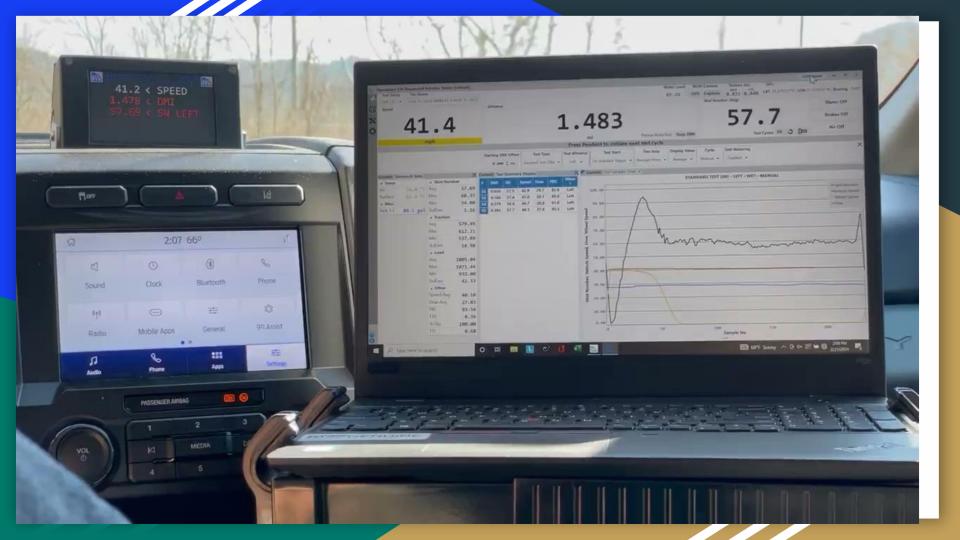


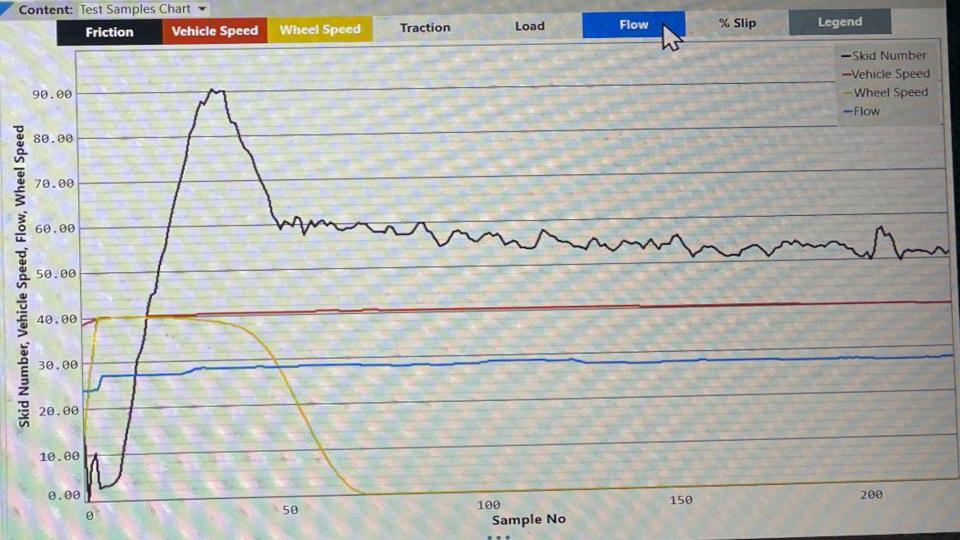


## **Pavement Texture**



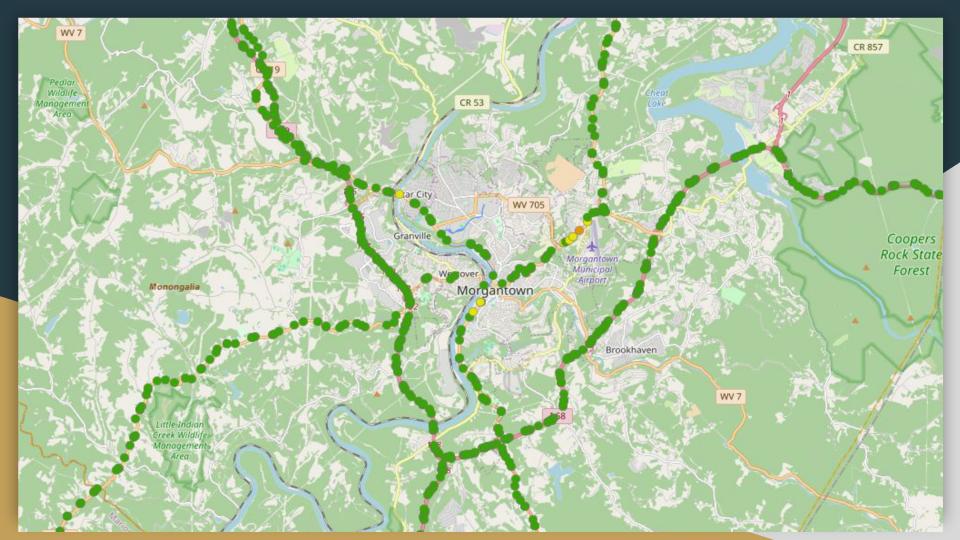






- Network Testing
- Interstates and US Routes Annually





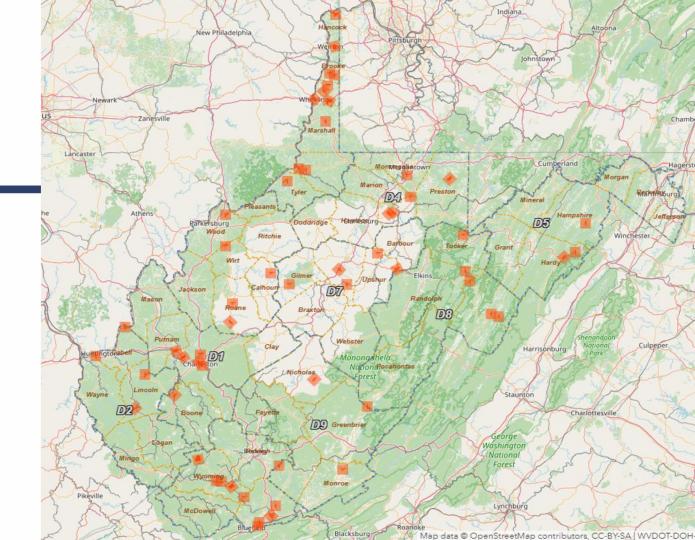
- Network Testing
- Interstates and US Routes Annually
- Accident Investigation
- Upon Request

- Network Testing
- Interstates and US Routes Annually
- Accident Investigation
- Upon Request
- 406 High Friction Surface Treatment
- < 90 days after Completion



# HFST in West Virginia

100+
sites



- Network Testing
- Interstates and US Routes Annually
- Accident Investigation
  - Upon Request
- 406 High Friction Surface Treatment
- Tested < 90 days after Completion??
- 402 Skid Resistant Aggregate
- Tested > 30 days after Completion

#### **How to Request Testing:**

MCST Used Only:

Rec.: Report: Tested: MIR:

#### Pavement Testing Request

ess	Substantial Complete Date:
	Contract ID:
Federal Project #:	State Project #:
County:	Beginning GPS Coordinates:
Barbour	
Mix Design (JMF):	Thickness: Length:
Aggregate Source:	
Phone Number:	Email:
	Federal Project #:  County:  Barbour  Mix Design (JMF):  Aggregate Source:

Please Attach all Location Maps and other information to this email.



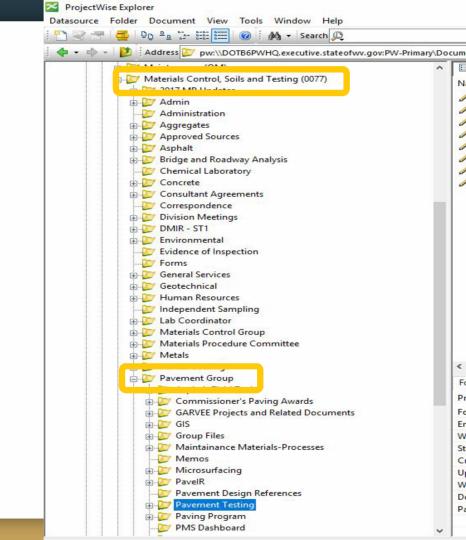
Generate Email:



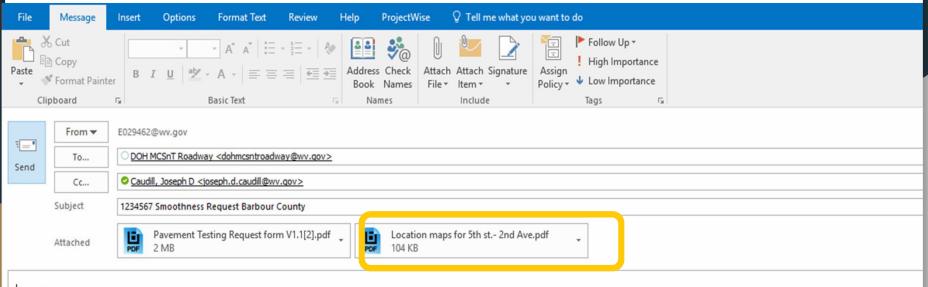
\* Any form Received with missing information will be considered as incomplete.

\* If you have any questions call the Pavement Group at (304)558-9884

#### **How to Request Testing:**



#### **How to Request Testing:**



Surface Testing Request

Don't forget to attach map

