

FHWA
Mobile Concrete Laboratory

Virginia Concrete Conference
Richmond VA – March 10-11, 2005

FHWA
Mobile Concrete Laboratory

Subba
Dynam

Base Drainage Test

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Outline

- Background and Goals of Program
- Technology
 - Conventional QC Tests
 - Nondestructive/In-Situ Tests
 - Durability Related Tests
- Summary

Mobile Concrete Laboratory

- Bridge gap between research and state of practice
- Continued development of promising technologies
- On-site demonstrations on field projects
- Equip. Loan, Publish


Mobile Concrete Laboratory

- Major emphasis on **SHARING** information
- Current focus areas:
 - Long Life Pavements
 - NDT/In-situ testing
 - M-E Pavement Design Guide

Mobile Concrete Laboratory

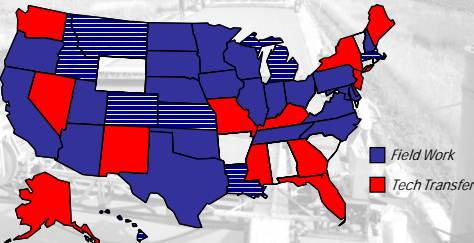
➤ Where have we been?

■ Field Work
■ Tech Transfer



Mobile Concrete Laboratory

➤ Where have we been?




■ Field Work
■ Tech Transfer

Technology

- Conventional QC
- Nondestructive/In-situ
- Durability Related

Technology

- ✓ Conventional QC
 - Fresh Concrete Tests (temp, slump, air)
 - Strength (comp, flex, split)
 - Elastic Modulus, Poisson
- Nondestructive/In-situ
- Durability Related




Technology

- Conventional QC
- Nondestructive/In-situ
- Durability Related

Technology

- Conventional QC
- ✓ Nondestructive/In-situ
 - Covermeter
 - Maturity
 - Impact Echo
 - Pulse Velocity
 - Tensile Bond Test
- Durability Related



Technology

- Conventional QC
- Nondestructive/In-situ
- Durability Related

Technology

- Conventional QC
- Nondestructive/In-situ
- ▼ Durability Related
 - Rapid Chloride Perm
 - HIPERPAV II
 - Air Void Analyzer
 - Thermal Modeling
 - CTE Test

Summary

- Primary role is to **SHARE** information
- Current focus areas:
 - Long-life pavements
 - Nondestructive/In-situ testing
 - **M-E Pavement Design Guide**
- Technologies demonstrated on-site during construction or for loan
...FREE to the states...

Closing

- Interested in our services?
Contact either:
 - FHWA **VA Division Office** (804-775-3363)
 - FHWA **Resource Center** (404-562-4782)
 - **Mobile Concrete Laboratory** Directly
 - Gary Crawford (202) 366-1286
 - Leif Wathne (202) 366-1335

Questions?

*We're open in the parking lot
during breaks!*

www.fhwa.dot.gov/pavement