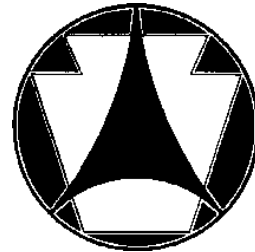

NORTHEAST 1998 ROUND ROBIN

NECEPT Regional Pooled Fund Study Task R5: Round Robin

Connecticut
Delaware
Maine
Maryland
Massachusetts
New Hampshire
New Jersey
New York
Pennsylvania
Rhode Island
Vermont
Washington, D.C.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING & RESEARCH
University-Based Research, Education,
And Technology Transfer Program
Agreement No. 359704, Work Order 18



FINAL REPORT

NOVEMBER 1999

**By M. O. Marasteanu, D. A. Anderson, C. E. Antle
With assistance from J. M. Mahoney and J. E. Stephens.**

PENNSSTATE



Pennsylvania Transportation Institute

**The Pennsylvania State University
Transportation Research Building
University Park, PA 16802-4710
(814) 865-1891 www.pti.psu.edu**

NORTHEAST 1998 ROUND ROBIN

NECEPT Regional Pooled Fund Study
Task R5: Round Robin

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Final Report prepared by

Mihai O. Marasteanu, The Pennsylvania State University
David A. Anderson, The Pennsylvania State University
Charles E. Antle, The Pennsylvania State University

With assistance from

James M. Mahoney, Connecticut Advanced Pavement Laboratory
Jack E. Stephens, Connecticut Advanced Pavement Laboratory

The Pennsylvania Transportation Institute
The Pennsylvania State University
Transportation Research Building
University Park, PA 16802-4710

November 1999

PTI 9934

This work was sponsored by the Pennsylvania Department of Transportation and the U.S. Department of Transportation, Federal Highway Administration with the Pennsylvania Department of Transportation acting as the host state for the Pooled Fund Study. The contents of this report reflect the views of the authors, who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of either the Federal Highway Administration, U.S. Department of Transportation, the sponsoring Pooled Fund States, or the Commonwealth of Pennsylvania at the time of publication. This report does not constitute a standard, specification, or regulation.

ACKNOWLEDGMENTS

This project was sponsored by a NECEPT – PennDOT Pooled Fund Study (contract number FHWA DTFH71-95-TE039-PA-35) jointly funded by the Northeastern states. Without their support, this project would not have been possible.

Special recognition and thanks are extended to all those individuals and agencies that participated in the workshops and the round robin.

Particular thanks go to Jim Dunne for his help in establishing the pooled fund project, to Fran Treisbach of PennDOT for administering the pooled fund contract, and to PennDOT for serving as the host for the contract.

Technical Report Documentation Page

1. Report No.		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Northeast 1998 Round Robin				5. Report Date November 1999	
				6. Performing Organization Code	
7. Author(s) Mihai O. Marasteanu, David A. Anderson, Charles E. Antle, with assistance from James M. Mahoney and Jack E. Stephens				8. Performing Organization Report No. PTI 9934	
9. Performing Organization Name and Address The Pennsylvania Transportation Institute Transportation Research Building The Pennsylvania State University University Park, PA 16802-4710				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No. Agreement No. 359704, Work Order 18	
12. Sponsoring Agency Name and Address Pennsylvania Department of Transportation Pooled Fund States Bureau of Planning & Research Sixth Floor, Forum Place 555 Walnut Street Harrisburg, PA 17101-1900				13. Type of Report and Period Covered Final Report	
				14. Sponsoring Agency Code	
15. Supplementary Notes COTR: Fran Treisbach The pooled fund states are: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Washington, D.C.					
16. Abstract Following the DSR-BBR workshops held in January 1998, asphalt binder samples were sent to the workshop participants as part of the second round robin. The main objective of this round robin was to provide support for NECEPT work plan R-6, which addresses binder QC/QA issues. Twenty laboratories, including state agencies, asphalt binder suppliers, and private laboratories participated in this round robin. Two sets of asphalt binders were sent to the participants. The first set contained four asphalt binder samples in the unaged condition. The asphalt binder in the PSU2 and PSU3 samples was a plain PG 64-22, while the asphalt binder in the PSU1 and PSU4 samples was a modified PG 70-22. Each participant received enough material to be able to perform a complete MP1 set of tests. The second set contained four asphalt binders that have been previously aged in the PAV. These samples were used only for BBR testing at -18°C. The testing program consisted of specification testing for DSR including strain sweeps, BBR testing, tests on the DSR reference fluid, and rotational viscometer testing. The 8-mm parallel plate testing was not included in the round robin. The analysis of the test data was performed using the Nested Procedure in the SAS statistical package. The SAS procedure provided estimates for the appropriate variance components that were further used to calculate the within- and between-laboratory D1S and D2S values.					
17. Key Words Superpave, workshop, asphalt binder, reference fluid, standard deviation, Bending Beam Rheometer, Dynamic Shear Rheometer, Rheology.				18. Distribution Statement No restrictions. This document is available from the National Technical Information Service, Springfield, VA 22161	
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages	22. Price