

1. Report No. FL/DOT/RMC/0669-8360		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Evaluation of Resilient Response of Florida Subgrade Soils				5. Report Date December 1996	
				6. Performing Organization Code	
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9. Performing Organization Name and Address FAMU-FSU College of Engineering Department of Civil Engineering 2525 Pottsdamer Road Tallahassee, Florida 32310				10. Work Unit No. (TRAI5)	
				11. Contract or Grant No. WPI 0510669, B-8360	
				13. Type of Report and Period Covered Final Report September 93 - December 96	
12. Sponsoring Agency Name and Address Florida Department of Transportation Research Center, MS30 605 Suwannee Street Tallahassee, Florida 32399-0450				14. Sponsoring Agency Code	
				15. Supplementary Notes Prepared in cooperation with the Federal Highway Administration, U.S. Department of Transportation	
16. Abstract The measurement of resilient modulus is becoming increasingly accepted for characterizing the engineering properties of pavement materials. The recent advancement of measuring the resilient modulus with the triaxial cyclic load test in the laboratory provides impetus to re-evaluate the resilient modulus measurements as obtained from the FDOT test-pit program. Correlations of resilient modulus resulting from test-pit rigid plate and laboratory triaxial resilient modulus tests would be very useful for selecting the resilient modulus to be used in pavement design and for converting previous test-pit test results into resilient modulus required in the AASHTO (1986, 1993) design guide. This study presents the results of an experimental program utilizing the test-pit facility and laboratory triaxial equipment to conduct the resilient modulus measurement of pavement subgrade materials in Florida. Correlation relationships between the test-pit and laboratory resilient modulus test results are investigated in this study. The resilient modulus resulting from the triaxial test may be used to predict the resilient deformation of the roadbed material.					
17. Key Words Pavement, Subgrade, Resilient Modulus, Triaxial cyclic load test, Test-pit, and Plate load test.			18. Distribution Statement This document is available to the public through the National Technical Information Service, Springfield, Virginia, 22161		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 413	22. Price