



Warranty Erosion Control

88th Annual Road School

Bob McCullouch



Current JTRP Research Project

- Special Provision Developed
 - Warranty period is minimum of 24 months. Two successive spring/summer seasons.
 - Two inspections and percentage of coverage required.
 - Sodding and Seeding must obtain 85% ground cover.
 - Warranty Bond required.
 - Appeal Procedure.
 - Erosion requirements .
 - Remediation specified.
 - Conflict Resolution – Digital Inspection tool
 - Method of Payment



Applied to Three Projects

- SR 238 and Connecticut Ave. Intersection in Hamilton County – Contract R-24735A. Completed summer 2000.
- SR 227 South of Richmond, Bridges over the Short Creek – Contract B-24698. Completed summer 2001.
- SR 69 Posey County – Contract R-24568. Under construction.



SR 238 Project

- Completed in 2000
- First Inspection, June 2001

SR238



SR 238



SR 238



SR 238



SR 238



SR 238



SR 238 – June 2001



SR -238 June 2001



SR 238 – June 2001



SR 227- October 2001



SR 227- October 2001



Digital Inspection Tool

- Digital Camera Images.
- Software that converts the image into RGB values.
- Program that calculates percentage of green.
- Developed guidelines and inspection procedures.

Digital Vegetation Program

The screenshot displays the 'Vegetation Image Analyzer' software interface. The main window has a blue background and features the following elements:

- Title Bar:** 'Vegetation Image Analyzer' and 'Version -1'.
- Logo:** A circular logo with the text 'UNIVERSITY OF MISSISSIPPI' and 'AGRICULTURAL MECHANICAL COLLEGE' around a central emblem.
- Start Button:** A button labeled 'Start'.
- Description:** A small text box stating: 'The program determines the percentage of vegetation (amount of a green area, based on digital numbers, 1 was provided for TSP of Purdue University).

An overlaid results window titled 'Vegetation Image Analyzer - Results' displays the following data:

Total Number of Pixels:	1,320,000
Total Number of Green Pixels:	780,000.00
Percentage of Green Pixels within desired area:	59.09%
Total Number of Dark Spot Pixels:	120,160.00
Percentage of Dark Spot Pixels within desired area:	13.57%

At the bottom of the results window is a button labeled 'Close'.