

TOP PHOTO: Greenfield Truck
 BOTTOM PHOTOS: Left: Filling bead tank process BEFORE, Middle and Right: Filling bead tank process AFTER

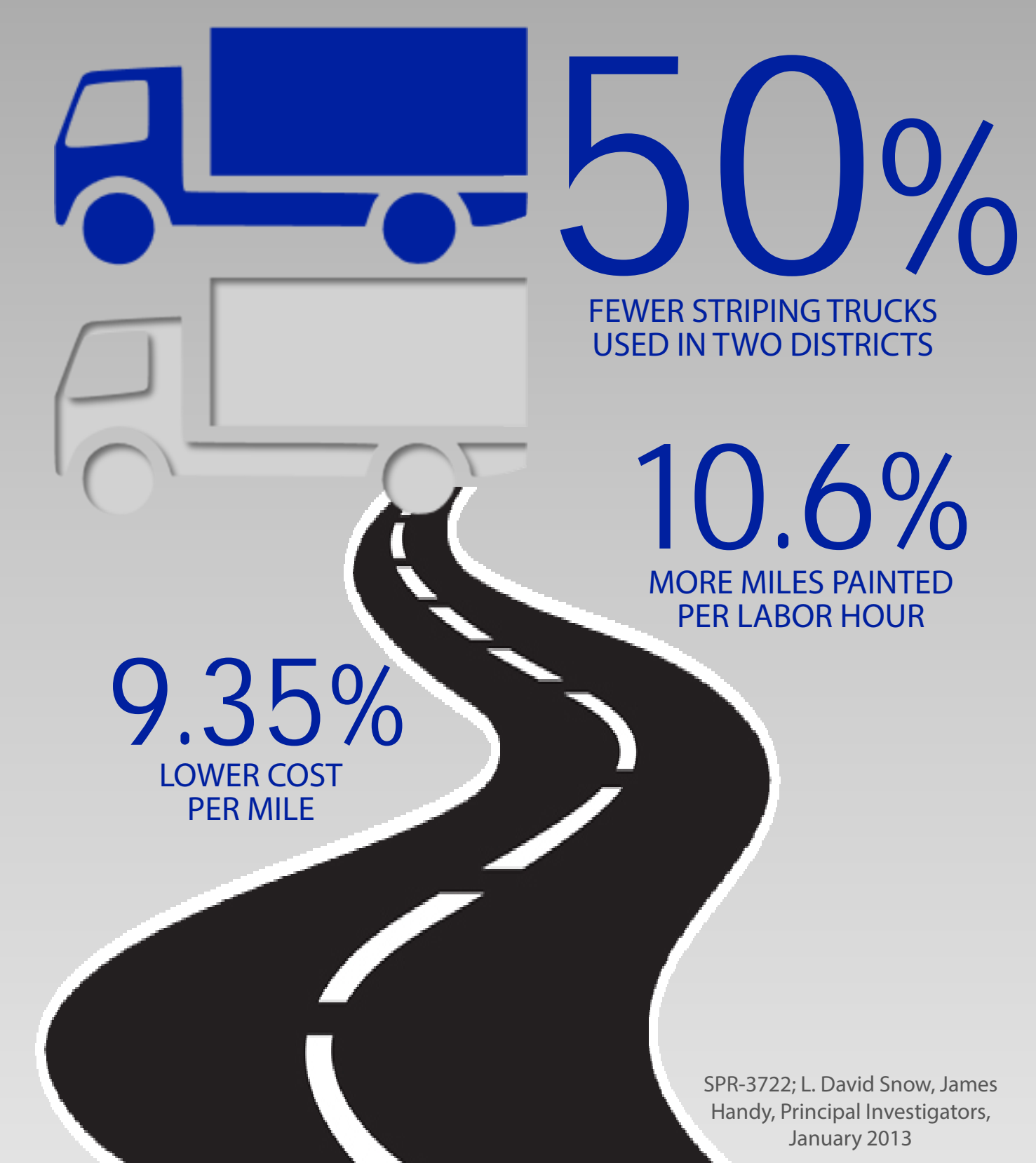
STRIPING TRUCK UTILIZATION PROJECT



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THE RESEARCH

Prior to 2013, INDOT operated two paint trucks per district (one edge line truck and one center line truck). The Greenfield and Crawfordsville districts were chosen to develop and test ideas to enable the transition to painting with just one truck per district. Teams from both districts, including paint truck drivers, painters and managers, participated in a series of Value Stream Mapping (VSM) sessions facilitated by Purdue Technical Assistance Program (TAP). The Value Stream Maps were then used to identify opportunities to improve painting operations.



These improvement ideas included both process changes and physical alterations to existing paint trucks. Each district created and then followed an action plan that allowed them to test the ideas during the second half of the 2013 and first half of the 2014 paint season. Although the Crawfordsville and Greenfield districts implemented different approaches, both were able to complete all of their scheduled lane miles during the season with just one truck each.

SPR-3722; L. David Snow, James Handy, Principal Investigators, January 2013

TOP PHOTO: Crawfordsville Truck on US 42 between US 231 and Poland, Indiana
 BOTTOM PHOTOS: Left: Loading 275 gallon totes onto Crawfordsville truck, Right: Original paint totes



VALUE STREAM MAPPING (VSM)
FEBRUARY 2013



JOINT TRANSPORTATION RESEARCH PROGRAM
 INDIANA DEPARTMENT OF TRANSPORTATION AND PURDUE UNIVERSITY

Roadway Striping Productivity Data Analysis for INDOT Greenfield and Crawfordsville Districts

Dan Koo

SPR-3650 • Report Number: FHWA/IN/JTRP-2013/26 • DOI: 10.5703/128828431.5228

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