

Organizational Results

September 2005

Annual Report

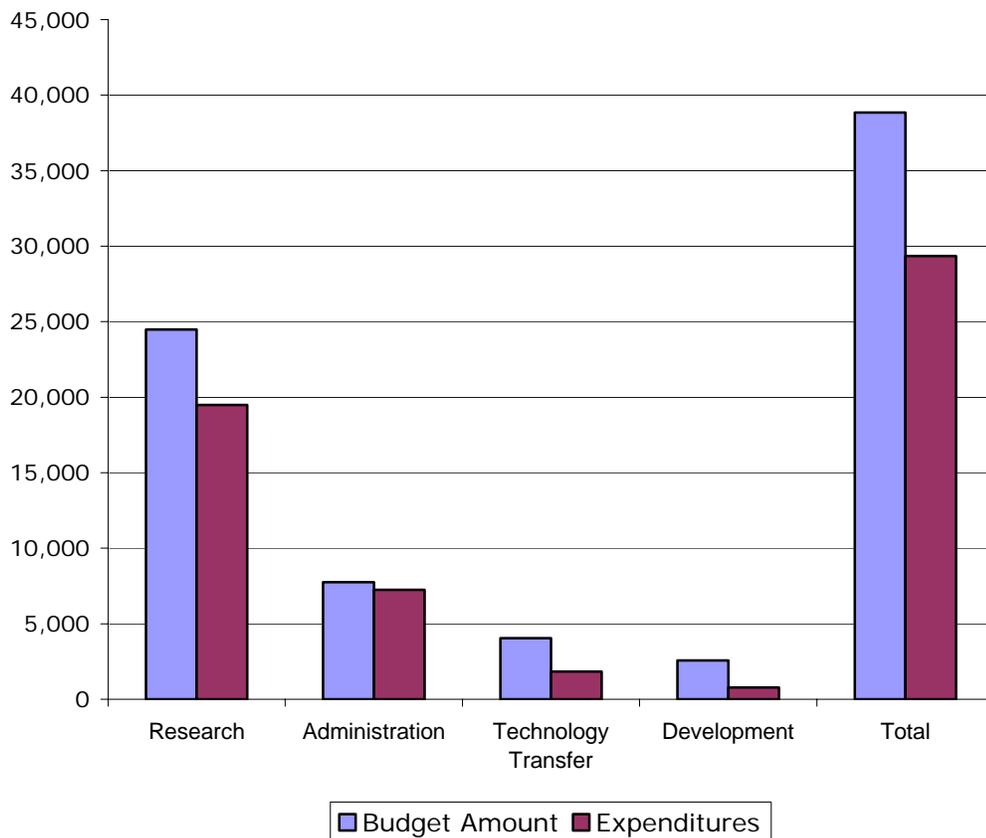
FY 2005

Missouri Department of
Transportation

Financial Performance for Fiscal Year 2005

Budget Summary

	<u>Budget Amount</u>	<u>Expenditures</u>
Administration	\$775,856	\$724,481
Research	2,447,633	1,948,973
Development	256,571	77,670
Technology Transfer	<u>405,339</u>	<u>182,992</u>
Total	\$3,885,399	\$2,934,116



Budget Review

The Organizational Results Division (formerly Research, Development & Technology) realized a 24.5% budget surplus. While some of the surplus was the result of contract billing delays, Organizational Results has restructured the way it plans, executes and monitors its budget. Financial controls have been implemented to track budget performance and project status on a monthly basis.

Project Status for Fiscal Year 2005

Active Contracts

Project #	Project Title	Contractor	Admin.	Obligated	Expended	FY06
RI 02-002B	Implementation of the Steel Free Bridge Deck		MTI	\$0	\$0	\$0
RI 02-010	Post Earthquake Damage Evaluation of Bridge Structures	UMR	MoDOT	\$58,723	\$55,787	\$2,900
RI 02-002	Steel Free Hybrid Reinforcement System for Concrete Bridge Decks - Phase 1	UMC	MoDOT	\$166,282	\$157,968	\$8,300
RI 02-003	Trenchless Construction Methods, Implementation Support.	UMC	MoDOT	\$127,610	\$121,216	\$6,400
RI 02-011	Seismic Retrofit Techniques for Bridge Cap Beams, Columns and Connections	UMR	MoDOT	\$61,348	\$55,9540	\$9,900
RI 04-007	Assessment and Analysis of Natural Hazards to Missouri Radio Tower Network	UMC	MTI	\$78,877	\$66,256	\$12,700
RI 05-021	MTI Work Plan & Budget	MTI	MoDOT	\$300,000	\$300,000	\$177,600
RI 03-029	Comprehensive Shear Wave Velocity Study	UMR	MTI	\$101,008	\$95,603	\$5,400
RI 00-059	Performance and Serviceability of HPS Girders, MO 224 Lafayette Co.	UMC	MoDOT	\$24,000	\$6,902	\$17,100
RI 03-015	Strut Failure of Paseo Suspension Bridge in Kansas City	UMR	MTI	\$88,890	\$49,743	\$39,100
RI 99-026	Shear Tests of High Performance Steel (HPS) Hybrid Girders	UMC	MoDOT	\$24,940	\$22,569	\$2,400
RI 04-006	In Situ Load Testing	UMR	MoDOT	\$20,300	\$9,835	\$10,500
RI 98-006B	Evaluation and Determination of the Variability Existing in ASTM C 457 Using the Linear Transverse Method	MJ Simon	MoDOT	\$6,025	\$0	\$6,000
RI 03-030	Development of Procedures for Design of Earth Slope Using LRFD	UMC	MTI	\$95,465	\$68,254	\$27,200
RI 99-035B	Character of 70% GGBFS Concrete - Lab Testing and Expanded Work.	UMR	MTI	\$10,787	\$0	\$0
RI 05-030	Pavement Base Permeability Testing for US 63	UMC	MTI	\$14,775	\$0	\$0

Project #	Project Title	Contractor	Admin.	Obligated	Expended	FY06
RI 99-035	Characteristics of a 70% Ground Granulated Blast Furnace Slag (GGBFS) Concrete	UMR	MoDOT	\$4,270	\$0	\$4,300
RI 98-026B	Library Systems Development at the RDТ Division of MoDOT	UMC	MTI	\$48,209	\$5,105	\$43,000
RI 03-007	Precast Concrete Panels in New Highway Construction	UMC	MTI	\$217,118	\$92,659	\$125,000
RI 02-023	Adaptive Traffic Signal System	UMR	MTI	\$46,820	\$37,891	\$8,900
RI 98-007D	Slope Stabilization Using Recycled Plastic Pins - Phase III	UMC	MTI	\$280,179	\$178,975	\$101,200
TTAP 01-05	Missouri Local Transportation Resource Center	MTI	MTI	\$199,926	\$40,722	\$159,200
RI 04-001	Sign Shop Process Study	UMC	MTI	\$42,091	\$11,004	\$0
RI 04-002	AASHTO M_E Pavement Design Guide Implementation in MO	ARA (ERES)	MoDOT	\$363,288	\$176,698	\$186,600
RI 03-003	Southview Bridge Rehabilitation, City of Rolla-IBRC	UMR	MTI	\$15,000	\$14,036	\$950
RI 03-056	Airport Project Economic Benefit Study	W/S	MTI	\$100,000		\$100,000
TR 03-002	Pilot Culvert Design Course	UMC	MTI	\$18,580	\$3,350	\$15,300
RI 02-022	Preservation of Missouri Transportation Infrastructure: Validation of FRP Composite Technology Through Field Testing	UMR	MTI	\$1,779,458	\$756,936	\$300,000
RI05-002	MTI Work Plan for MoDOT Customer Satisfaction Survey	MTI	MTI	\$121,384	\$0	\$121,400

Pooled Research & NCHRP

- | Project # | Project Title |
|------------------|---|
| RI 02-043 | Facilitation of Safety Evaluations of Nighttime and Daytime Work Zones |
| RI 02-040 | State of the Art Bridge Surveillance and Security Technologies |
| RI 02-037 | Design of Bridges for Security |
| RI 02-048 | Portable Non-Intrusive Technologies (PNIT) |
| RI 98-006 | Image Analysis of Hardened Concrete |
| RI 02-028 | NCAT Test Track |
| RI 01-051 | Congestion Measurement System |
| RI 02-031 | Long Term Maintenance of Load Resistance Factor Design (LRFD) Specifications |
| RI 98-034 | Wind-induced Vibration in Cable Stay Bridges |
| RI 02-039 | Strength and Deformation Analysis of MSE Walls at Working Loads and Failures |
| RI 02-050 | Material and Construction Optimization for Prevention of Premature Distress in Portland Cement Concrete Pavement (PCCP) |
| RI 01-055 | Construction of Crack Free Bridge Decks |
| RI 02-024 | Traffic Control Device Consortium |
| RI 02-004 | Erosion Control Laboratory |
| RI 03-036 | Test and Evaluation of Material, Equipment and Methods for Winter Highway Maintenance |

In-house Research

<u>Project #</u>	<u>Project Title</u>
PD 01-021	Waterborne Traffic Paint and Bead Combination 4th Generation
PD 01-027	Investigation of Centerline Rumble Strips
PD 02-008	3M Linear Delineation Systems
PD 02-031	All Weather Wet Reflective Tape
PD 03-020	Epoplex LS-90
RI 00-024	Sign Component Test Deck
RI 00-027	Stainless Steel Reinforcing Bars in Bridge Decks
RI 00-061	Galvashield XP Embedded Galvanic Anodes to Inhibit Corrosion in Bridge Decks
RI 01-007	Development and Implementation of Environmental Roadside Inventory
RI 01-037	Installation and Initial Performance of 60" Ads N—12HC® HDPE Pipes
RI 02-019	Effectiveness of New Placing and Curing Specifications for Bridge Decks
RI 03-004	Evaluation and Implementation of the Air Void Analyzer (AVA) in Missouri
RI 03-034	Stock Types for Tree Planting on MoDOT Mitigation Sites
RI 04-005	Evaluation of Very High Early Strength Latex Modified Concrete Overlay
RI 04-027	Deck Replacement with Precast Reinforced Concrete Systems
RI 04-030	Observation of Galvanic Cathodic Production for Bridge Deck - A12112
RI 04-051	Bridge Deck Concrete Sealers
RI 05-024	Performance of Bridge Decks Using Precast, Prestressed Deck Panels in Missouri
RI 77-002	Roadway Design Variables to Reduce D-Cracking
RI 91-013	Field Survey of D-Cracking in Pavements with Differing Aggregates
RI 92-004	Statewide Study of Cathodic Protection Systems
RI 97-037	Effects on Freeze-Thaw Durability of Concrete Containing HRWR (High Range Water Reducers)
RI 97-043	Ultra-Thin Whitetopping for Pavement Rehabilitation, D7, Rte 60, Neosho, Newton Co.
RI 99-012	Evaluation of Ultra-Thin White Topping, D1, Rte 169 and YY, Buchanan County
RI 99-012B	Evaluation of Ultra-Thin White Topping, D4, Rte 291 and 78, Jackson County.