



OREGON DEPARTMENT OF TRANSPORTATION

Research Unit  
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Salem, OR 97301

**SPR Quarterly Progress Report**  
April 1, 2009 through June 30, 2009

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Date July 2, 2009

**TO:** Technical Advisory Committee Members:

Daniel Anderson, ODOT Construction Section  
Kevin Brophy, ODOT Construction Section  
Jeff Graham, FHWA  
Jason White, Wildish Construction  
Jim Huddleston, APAO  
Jon Lazarus, ODOT Research Unit  
Rick Munford, ODOT Long Range Planning Unit  
John Riedl, ODOT Roadway Section  
Theresa Yih, ODOT Bridge Engineering Section  
Ted Aadland, Aadland Evans Construction

**FROM:** Jon Lazarus, Research Coordinator; phone (503) 986-2852

**1. Project**

Fuel Factors  
SPR # 668

**2. Key Dates**

Start Date for ODOT: NTP issued May 20, 2008  
Completion Date for ODOT:

**3. Principal Investigator**

Dr. Eric Jessup, Assistant Research Professor      Phone: (509) 335-5558  
Dr. Ken Casavant, Professor      Phone: (509) 335-1608  
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PO Box 646210  
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#### 4. Progress

- Task 3 (Identification of data requirement). This task is 100% complete and can be closed out
- Task 4 (Data Gathering Inflation Indices): With the assistance of Theresa all of these data are now compiled.
- Task 5 (Development of Construction Inflation Index): 100% Complete. The RS Means data has been gathered, the Oregon data have also been compiled, again with the assistance of Theresa. Spread sheets of the two raw data are now available and an inflation index for both models have now been analyzed. Note: Comparison between Oregon's data is considered in Task 6
- Task 6 (Approach to Construction Fuel Consumption):70-80% Due December 2009. The indices of the components for each template model have been developed along with the overall indices. I would like to be involved with the analysis of data (as personal interest in statistics). The TAC will need more of a general explanation of all the different correlations and methods analyzed to discover the best fit model/equation for an index.
- Task 6b (Interim report) 30% Several drafts of the results of the data analysis have been initiated but work is needed to create an interim report. Due prior to next TAC meeting, to be scheduled. Tentative discussions around September/October timeframes.
- Task 7 [Final Report]: 10% Due December 2009.
- Next steps:
- Ken and Eric to present RS Means data and findings to TAC at next meeting.. Ken and Eric will offer an draft interim report to the TAC prior to the next meeting. It is expected that this draft report should serve as a good start and/or draft for the final report.
- Jon, Ken and Eric will discuss next steps, with Ken and Eric suggesting recommendations from findings as to what should ODOT do next with findings, implications, any implementation issues, administrative efforts to change to newly developed findings, items ODOT may need to discuss/decide on internally, etc., This will be also the subject of the next TAC meeting.

#### 5. Problems

No problems at this time, now that the data have been received and analysis is underway. The interim report is the next focus for the work.

#### 6. Work Planned for Next Quarter

- Ken and Eric to present RS Means data and findings to TAC at next meeting..  
Ken and Eric will offer a draft interim report to the TAC prior to the next meeting.  
It is expected that this draft report should serve as a good start and/or draft for the final report.

Jon, Ken and Eric will discuss next steps, with Ken and Eric suggesting recommendations from findings as to what should ODOT do next with findings, implications, any implementation issues, administrative efforts to change to newly developed findings, items ODOT may need to discuss/decide on internally, etc., This will be also the subject of the next TAC meeting

7. **Finances**  
SPR Project Summary

<b>VENDOR</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>FY11</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 53,500	\$ 53,500			\$ 107,000
<b>REVISED BUDGET</b>	\$ -	\$ 77,235	\$ 72,574		\$ 149,809
EXPENDITURES - VENDOR	\$ -	\$ 77,235	\$ -	\$ -	\$ 77,235
<b>BALANCE</b>	\$ -	\$ -	\$ 72,574	\$ -	\$ 72,574
<b>ODOT</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>FY11</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 4,000	\$ 4,000			\$ 8,000
<b>REVISED BUDGET</b>	\$ 3,673	\$ 7,338	\$ 2,500		\$ 13,511
EXPENDITURES - ODOT	\$ 3,673	\$ 7,338	\$ -	\$ -	\$ 11,011
<b>BALANCE</b>	\$ -	\$ -	\$ 2,500	\$ -	\$ 2,500
<b>PROJECT</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>FY11</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 57,500	\$ 57,500	\$ -	\$ -	\$ 115,000
<b>REVISED BUDGET</b>	\$ 3,673	\$ 84,573	\$ 75,074	\$ -	\$ 163,320
EXPENDITURES - PROJECT	\$ 3,673	\$ 84,573	\$ -		\$ 88,246
<b>BALANCE</b>	\$ -	\$ -	\$ 75,074	\$ -	\$ 75,074

Financials from WSU:

PI's Name: Ken Casavant/Eric Jessup					Budgeted	Expended	Balance		
Agency: Oregon St Dept of Transportation						As of			
SALARIES - 00						6/30/2009			
PI: Ken Casavant				Salary	25,446		25,446		
							-		
Co-PI: Eric Jessup				Salary	39,839	20,097.32	19,742		
							-		
Graduate Student						15,520.00	(15,520)		
							-		
WAGES - 01									
Full time Student:				Wages	-	-	-		
					-	-	-		
Part-time Student:				Wages	9,500	2,276.40	7,224		
							-		
							-		
				Total Salary	65,285	35,617.32	29,668		
				Total Wages	9,500	2,276.40	7,224		
				Total Salary & Wages	74,785	37,893.72	36,891		
BENEFITS - 07									
				Total Benefits	22,455	13,800.08	8,655		
				Total Salaries/Wages/Benefits	97,240	51,693.80	45,546		
GOODS/SERVICES - 03									
					967	46.92	920		
							-		
				Total Goods/Services	967	46.92	920		
TRAVEL - 04									
Domestic					2,000	2,601.30	(601)		
Foreign							-		
				Total Travel	2,000	2,601.30	(601)		
TOTAL DIRECT COSTS					100,207	54,342.02	45,865		
EXCLUSIONS									
QTR						8,093.00			
Equipment (Over 5k)									
Subcontracts (After Initial \$25K For Each Subcontract)									
Other (Off-Site Rental & Stipends, Etc)					-		-		
				Base	100,207	46,249.02	53,958		
TOTAL F&A - 13					NSU's U.S. DHHS Negotiated F&A Rate	49.500%	49,602	22,893.26	26,709
							-		
TOTAL COSTS					149,809	77,235.28	72,574		