
**Value Engineering
Annual Report
FY 2011/2012**



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Executive Summary

Value Engineering During Project Development

The districts completed 21 studies or 56% of the original number of studies scheduled for fiscal year 20011/2012. The original work plan had 39 studies scheduled for the year and the target was to complete 75% or 29 of the planned studies. Due to the dynamics of the department's work program, 21 of the 39 scheduled studies (54%) were either dropped from the work plan altogether or rescheduled for the 2012/2013 fiscal year, while five of the completed studies were added to the original work plan.

During this same period, the districts acted on 144 recommendations, approving 78 for a 54% adoption rate. Sixty-six of the approved recommendations resulted in \$140.7 million in project cost avoidance/savings. The remaining 12 approved recommendations were value added recommendations that increased project performance, while adding \$7 million to the project cost. Therefore, the total value of the approved recommendations, including the value added recommendations, produced **\$133.7 million in project cost avoidance/savings**.

The approved recommendations resulted in a 2.64% project saved, 7.48% program saved and a Return on Investment (ROI) of \$111 to \$1. The percent project saved is calculated by dividing the value of all approved recommendations by the total costs of the projects studied, while the percent program saved is calculated by dividing the value of all approved recommendations by the average project cost of three fiscal year lettings. The ROI is calculated by dividing the value of all approved recommendations by the cost of administering the program.

There were 71 pending recommendations totaling \$312.2 million in potential cost avoidance/savings at the end of the 2011/2012 fiscal year. This is a 12.7% increase in the total number of pending recommendations from the end of the 2010/2011 fiscal year. Twenty-two of the 71 recommendations have been pending for more than 12 months, which is more than 30% of the total number of pending recommendations. Since the VE Study is a 'snapshot' of the project at some point in time of project development and projects are continuously moving forward in development, this is a concern. The longer recommendations are unresolved and in a pending status the less likely that they will be adopted because the development of the project has advanced.

Cost Savings Initiatives During Construction

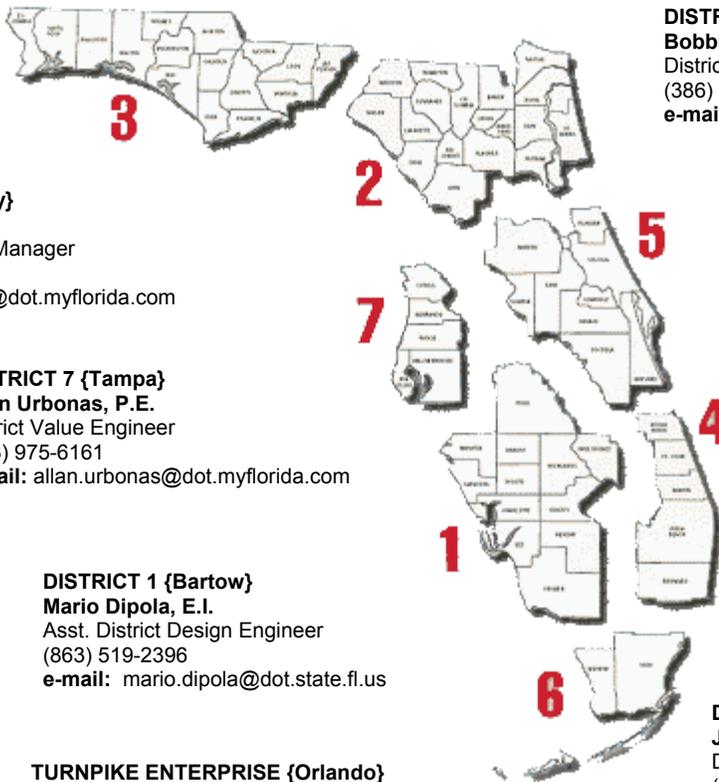
Twenty-seven Cost Savings Initiative (CSI)'s Proposals were submitted during fiscal year 20011/20012. During this same period, the districts acted on 24 proposals totaling more than \$4.2 million and approving 22 of the proposals. The implemented savings from the 22 approved CSI's was \$4.12 million. The approved CSI proposals resulted in a 1.85% project saved and a 0.21% program saved. There are currently seven pending CSI's totaling \$2.26 million in potential project savings.

Program Organization

Mission: Administer the Florida Department of Transportation Value Engineering and Cost Savings Initiative Programs, satisfying the needs of the stakeholders.

Vision: Value Engineering . . . providing an effective support function which maximizes project and process value for the transportation systems in the State of Florida.

CENTRAL OFFICE {Tallahassee}
Kurt Lieblong, P.E., CVS
State Value Engineer
(850) 414-4787
e-mail: kurt.lieblong@dot.state.fl.us



DISTRICT 3 {Chipley}
Keith Hinson, P.E.
District VE Program Manager
(850) 415-9547
e-mail: keith.hinson@dot.myflorida.com

DISTRICT 7 {Tampa}
Allan Urbonas, P.E.
District Value Engineer
(813) 975-6161
e-mail: allan.urbonas@dot.myflorida.com

DISTRICT 1 {Bartow}
Mario Dipola, E.I.
Asst. District Design Engineer
(863) 519-2396
e-mail: mario.dipola@dot.state.fl.us

TURNPIKE ENTERPRISE {Orlando}
Michael Shannon, P.E.
Assistant Design Engineer
(407) 264-3628
e-mail: michael.shannon@dot.state.fl.us

DISTRICT 2 {Lake City}
Bobbi Goss
District Value Engineering Coordinator
(386) 758-3769
e-mail: bobbi.goss@dot.state.fl.us

DISTRICT 5 {Deland}
Gary Bass
District Value Administrator
(386) 943-5539
e-mail: gary.bass@dot.myflorida.com

DISTRICT 4 {Ft. Lauderdale}
Tim Brock, P.E.
District Value Engineer
(954) 777-4125
e-mail: tim.brock@dot.state.fl.us

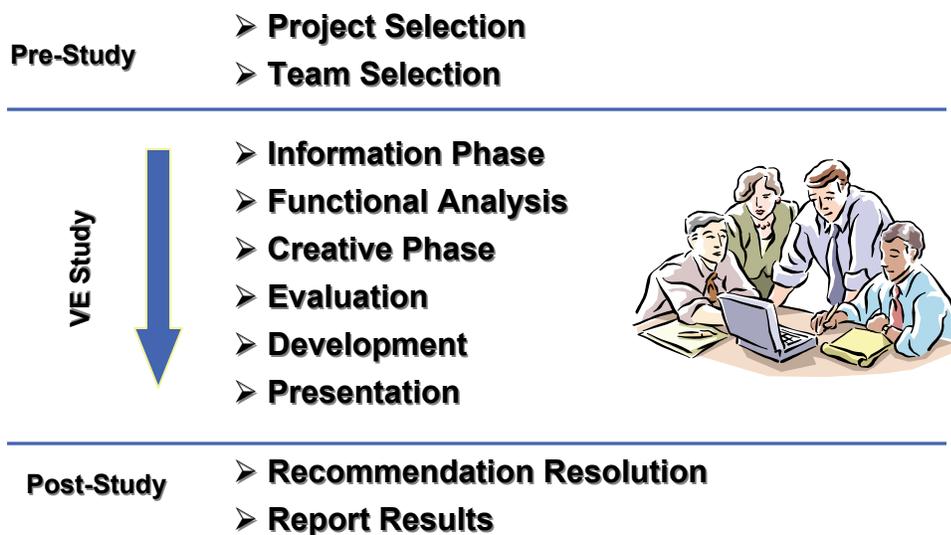
DISTRICT 6 {Miami}
John Dovel, P.E., AVS
District Value Engineer
(305) 470-5342
e-mail: john.dovel@dot.state.fl.us

Value Engineering Overview

What is Value Engineering

Value Engineering (VE) is the formal application of a proven and effective tool used to improve the value of a project, product or service. VE strives to optimize the use of allocated funds without reducing the quality or performance. A multi-disciplined team is assembled and the six phases of the VE Job Plan (Information, Functional Analysis, Creative, Evaluation, Development and Presentation) are used to guide the team through the process.

VE Job Plan



The administration of the VE Program can be broken down into the following key processes.

Pre-Study	Study	Post Study
Project Selection	Conduct VE Study	Recommendation Resolution
Team Selection		Report Results

Value Engineering Overview

Performance Measures

The VE Program and the Cost Savings Initiative (CSI) Program are managed through the use of the Process Control Systems found in Appendix B. Each process has a set of Quality and In-Process measures that are used to evaluate the performance of the program. The Quality Measures for the overall VE program are defined below.

VE Program	
Quality Measure	Calculation
Q1: Approved Cost Avoidance Recommendations	Sum of all approved cost avoidance/ savings recommendations
Q2: Approved Value Added Recommendations	Sum of all approved value added recommendations
Q3: Adoption Rate	$\frac{\# \text{ of Approved Recommendations}}{\# \text{ of Proposed Recommendations}}$
Q4: Percent Project Saved	$\frac{\text{Value of Approved Recommendations}}{\text{Total Project Costs}}$
Q5: Percent Program Saved	$\frac{\text{Value of Approved Recommendations}}{\text{3 Year Monthly Average Lettings}}$
Q6: Return on Investment (only reported annually)	$\frac{\text{Value of Approved Recommendations}}{\text{Total cost of VE Program}}$

Cost Savings Initiative Overview

What is Cost Savings Initiative

The Cost Savings Initiative Program offers an opportunity for the contractor to propose cost savings ideas prior to work beginning and as work progresses on a project. Contractors can demonstrate their innovation and ingenuity by proposing ideas that contribute to the cost effectiveness of the project. The contractors are then rewarded for this ingenuity and innovation by sharing in any project savings generated from an approved Cost Savings Initiative (CSI) proposal.

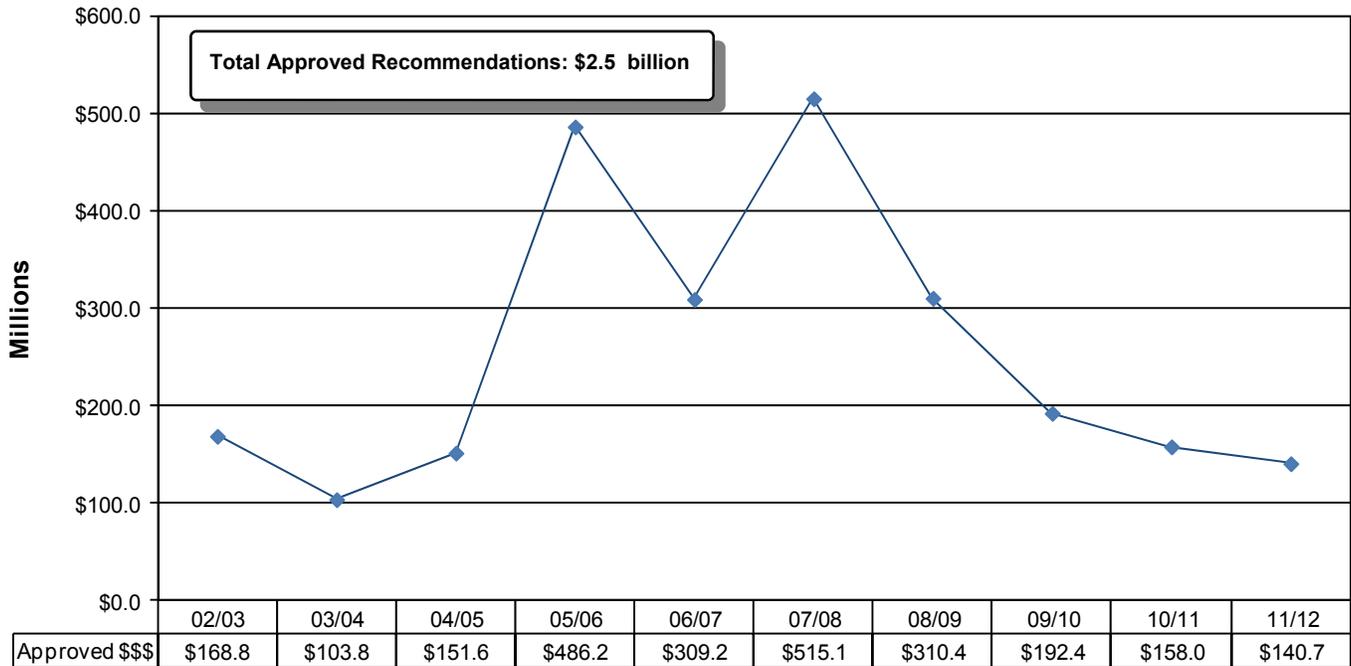
Performance Measures

CSI Program	
Q1: Number of CSI's	Sum of all CSI's
Q2: Approved Cost Savings	Sum of all approved CSI savings
Q3: Percent Project Saved	$\frac{\text{Value of Approved Proposals}}{\text{Total Project Costs}}$
Q4: Percent Program Saved	$\frac{\text{Value of Approved Recommendations}}{\text{3 Year Monthly Average Lettings}}$

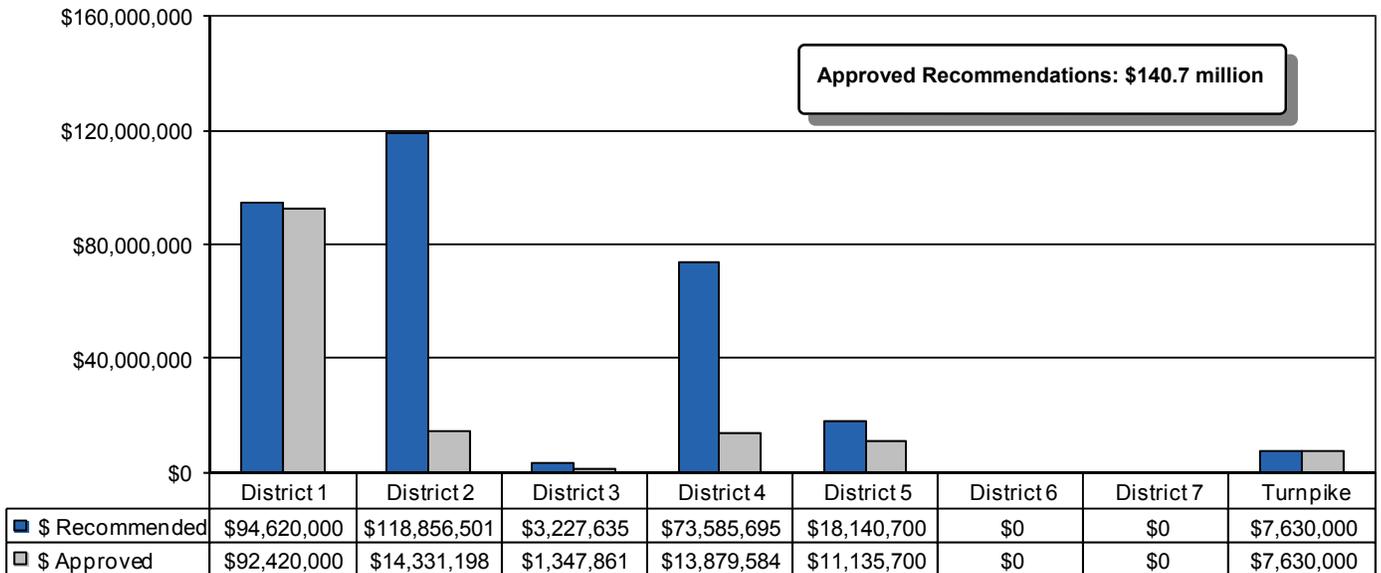
**Fiscal Year 2011/2012
Value Engineering
Performance Measures**

Adopted Recommendations

Q1: Annual Approved Cost Avoidance/Savings

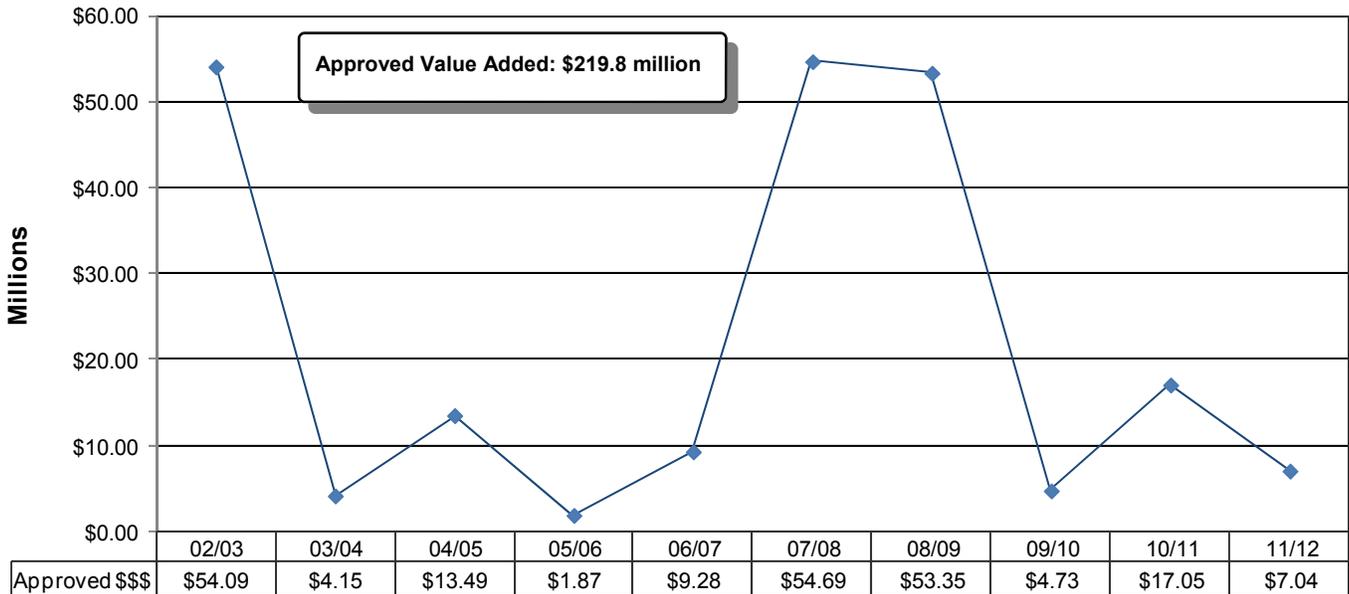


Q1: Cost Avoidance Recommendations Annual Report FY 2011/2012

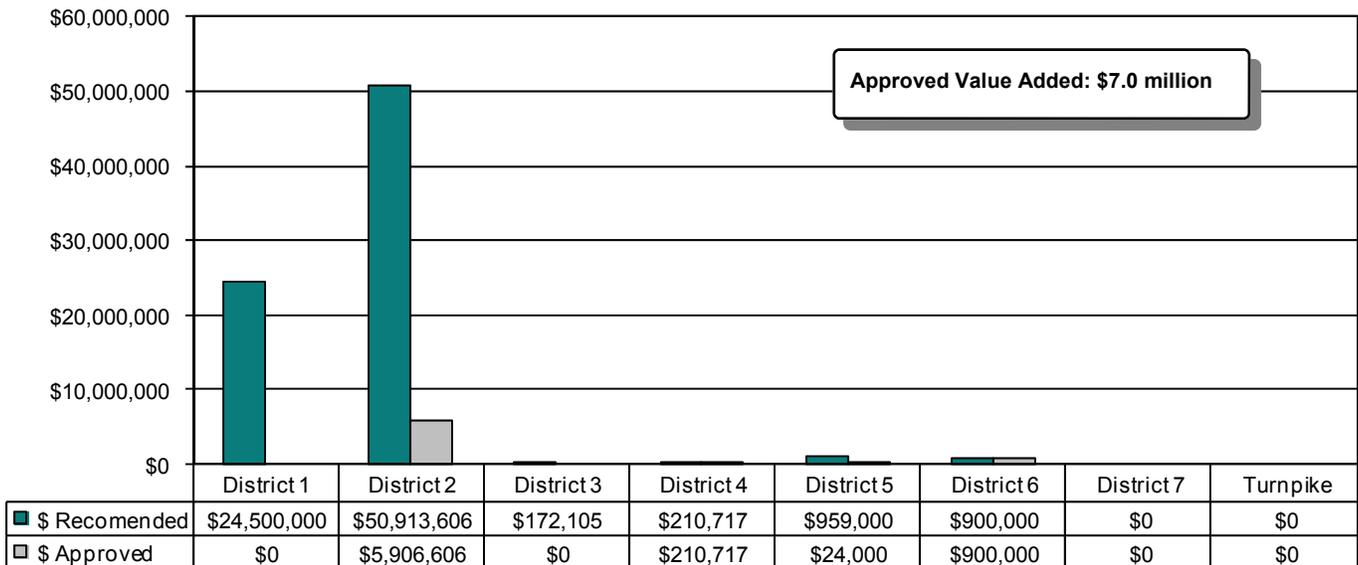


Adopted Recommendations

Q2: Annual Approved Value Added Recommendations



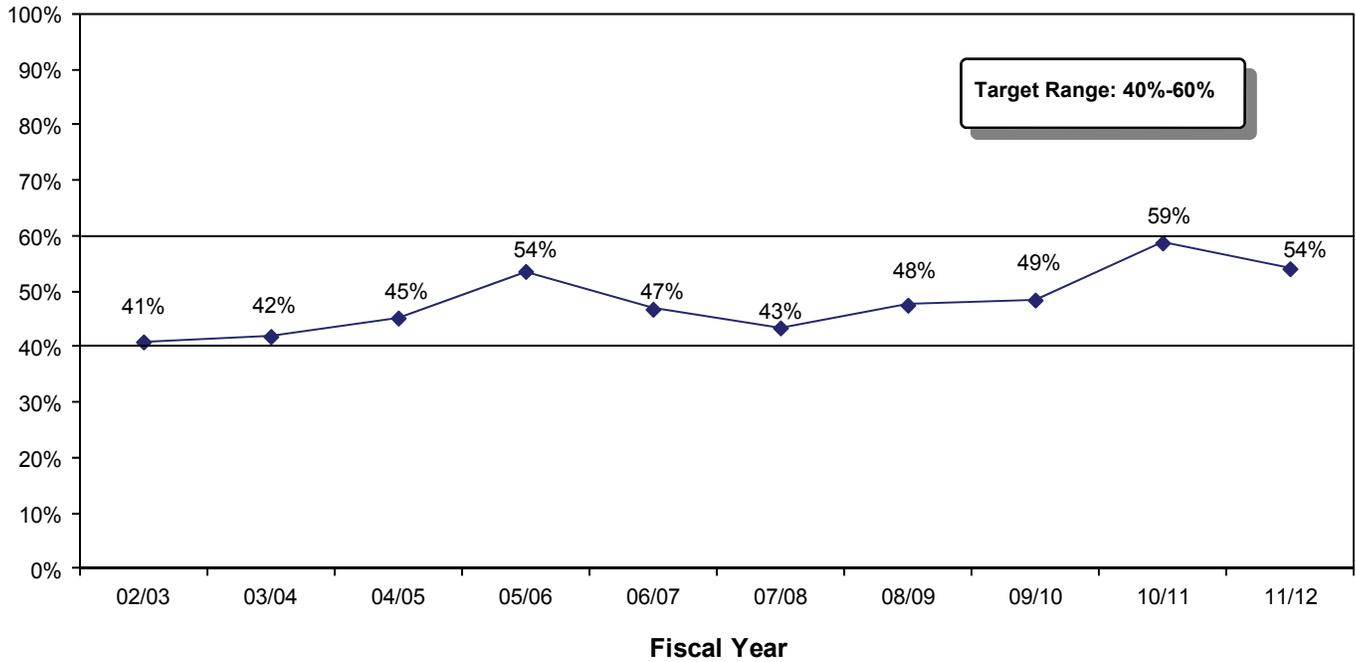
Q2: Value Added Recommendations Annual Report FY 2011/2012



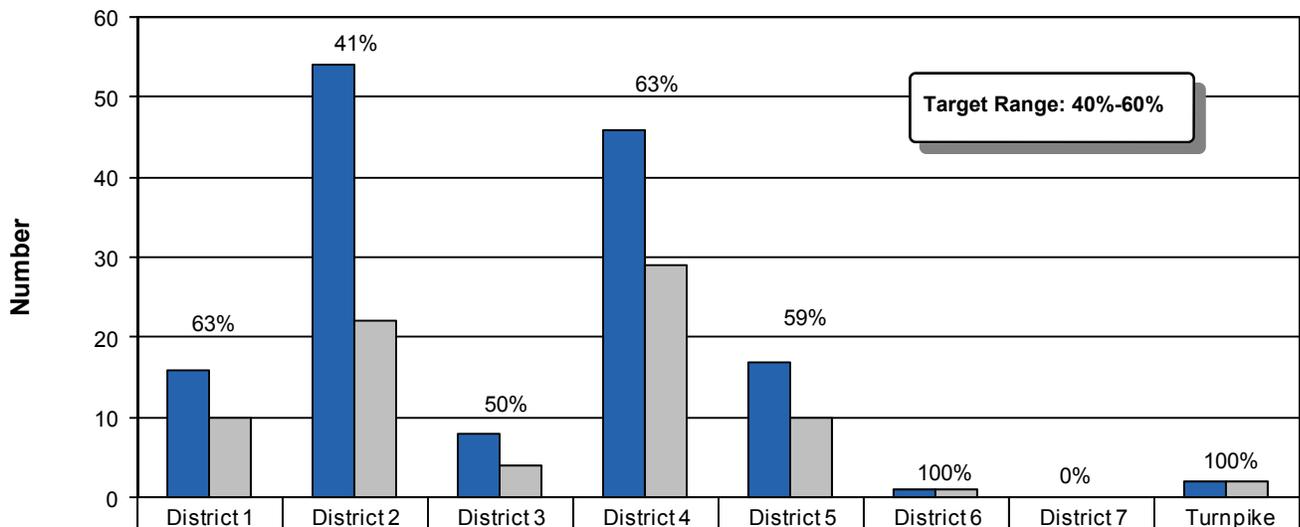
* A Value Added Recommendation significantly increases the performance of a function while also increasing the cost.

Adoption Rates

Q3: Annual Adoption Rate



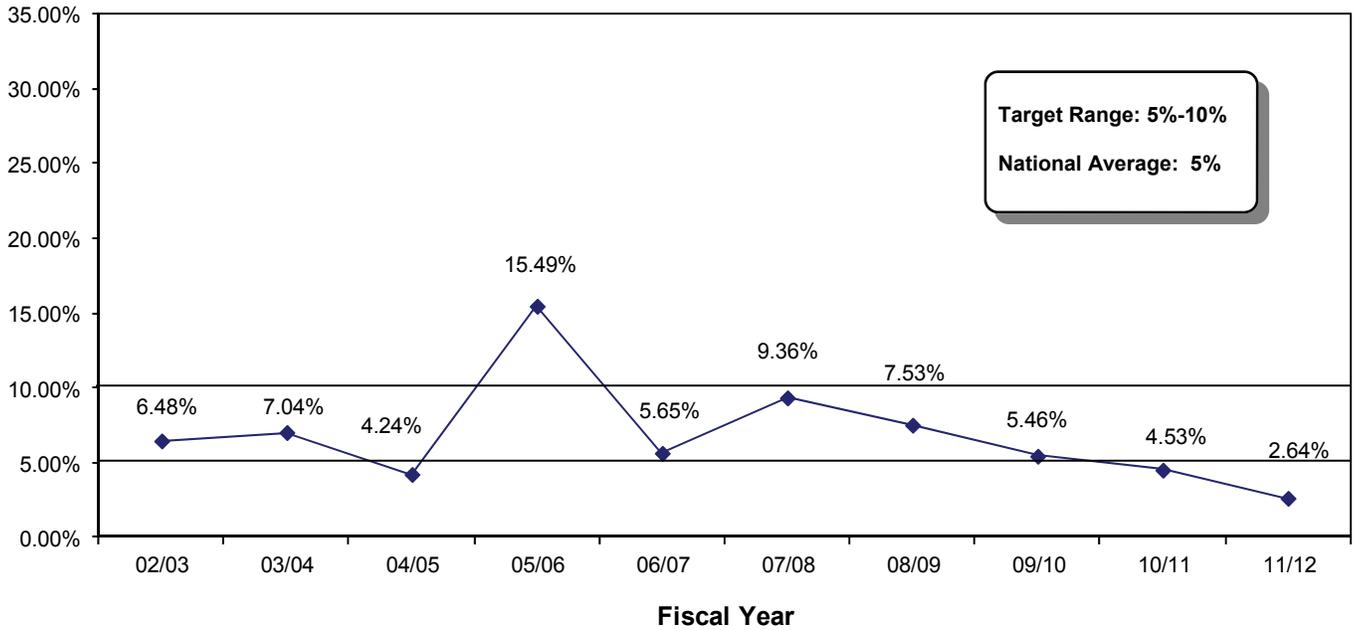
Q3: Adopted Recommendations Annual Report FY 2011/2012



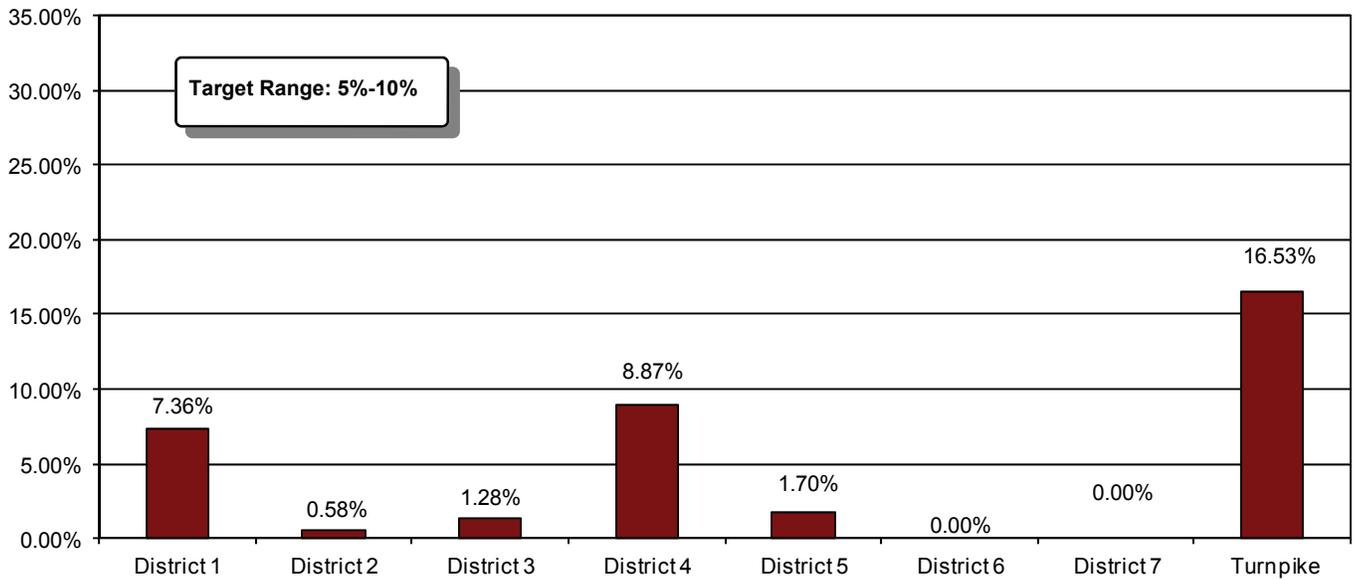
# Recommended	16	54	8	46	17	1	0	2
# Approved	10	22	4	29	10	1	0	2

Percent Project Saved

Q4: Annual Percent Project Saved

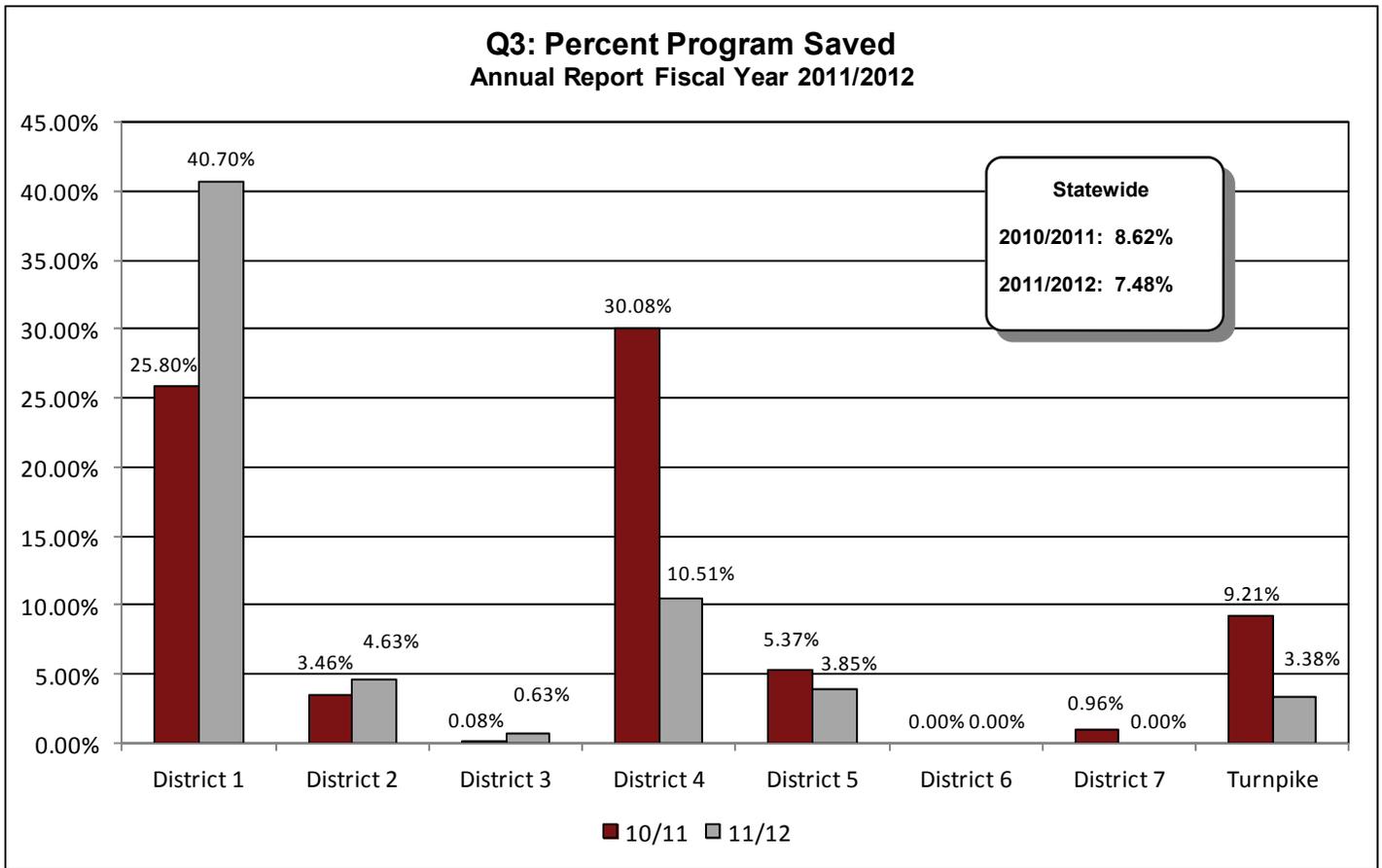


Q4: Percent Project Saved Annual Report Fiscal Year 2011/2012



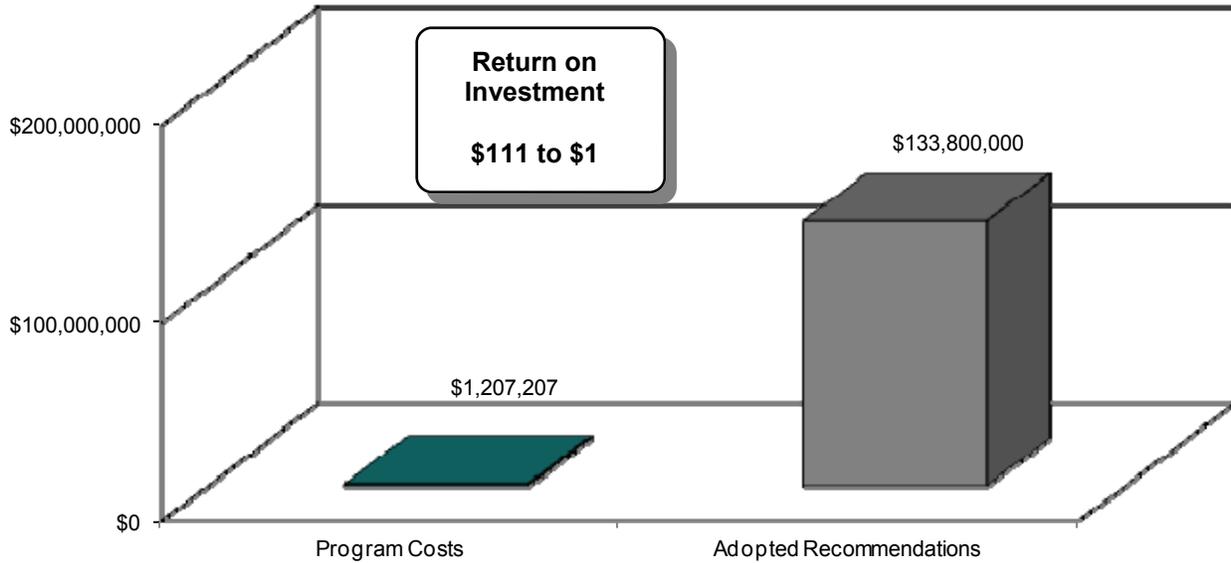
Percent Program Saved

The Percent Program Saved is a new measure introduced last year. The intent is to compare the cost avoidance/savings to the overall work program. The measure is calculated by dividing the three year average monthly lettings into the overall cost avoidance/savings. Line charts showing trends will be developed in future years as data becomes available.

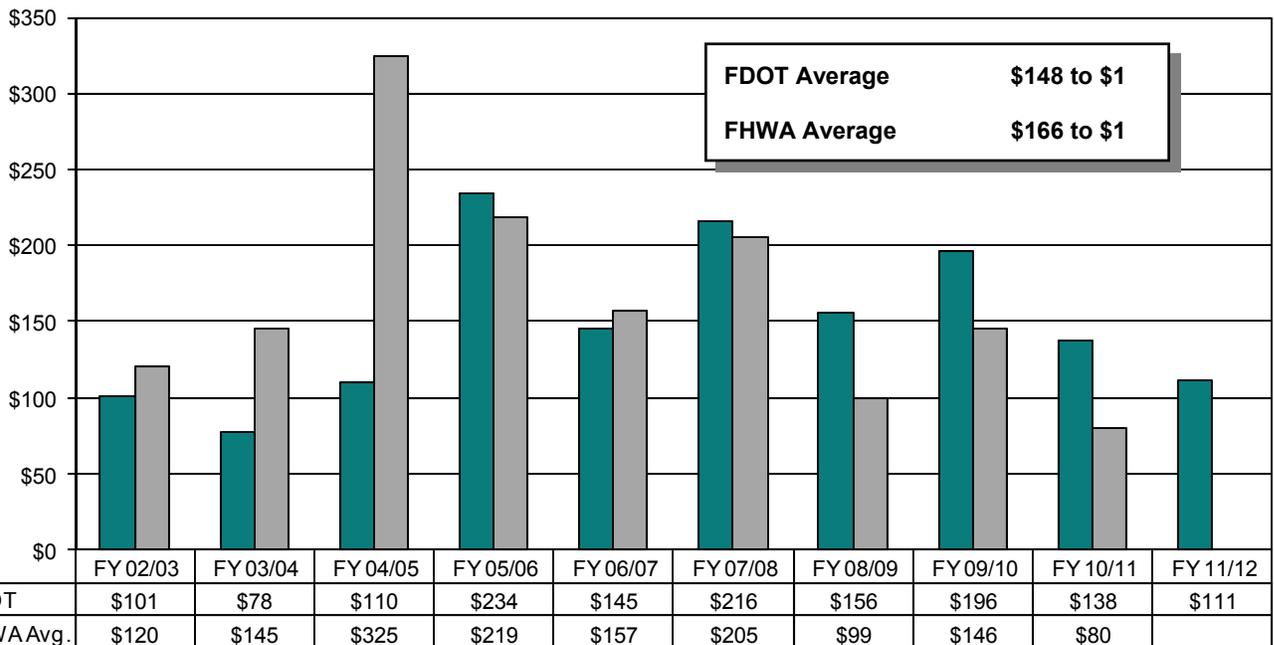


Return on Investment

Q5: Return on Investment
Annual Report Fiscal Year 2011/2012



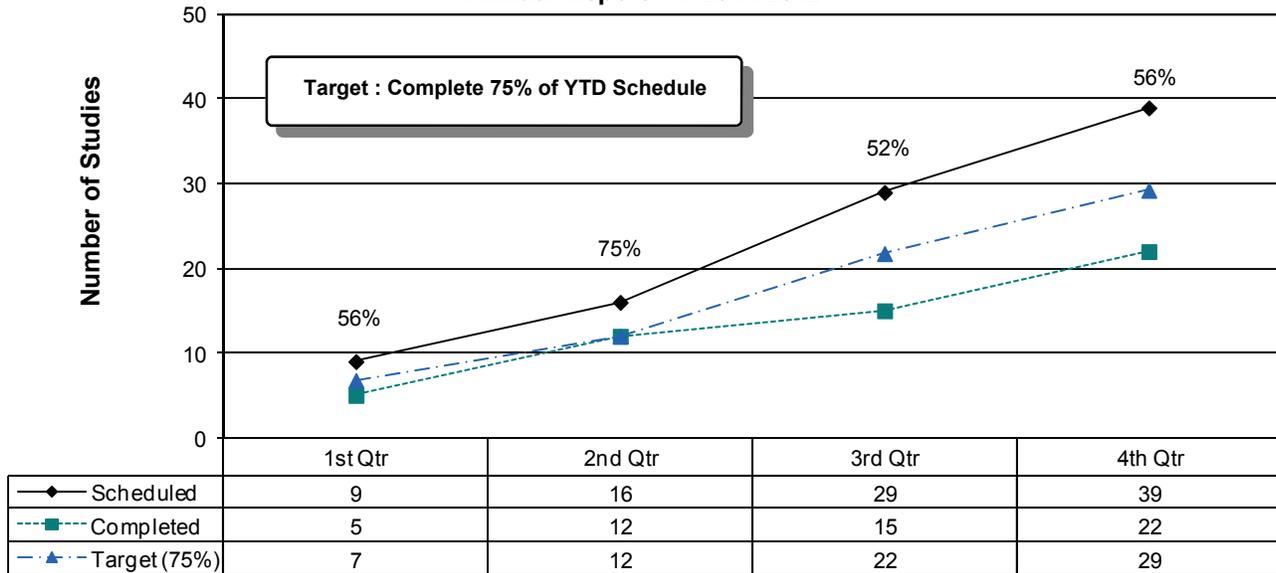
Q5: Annual Return on Investment



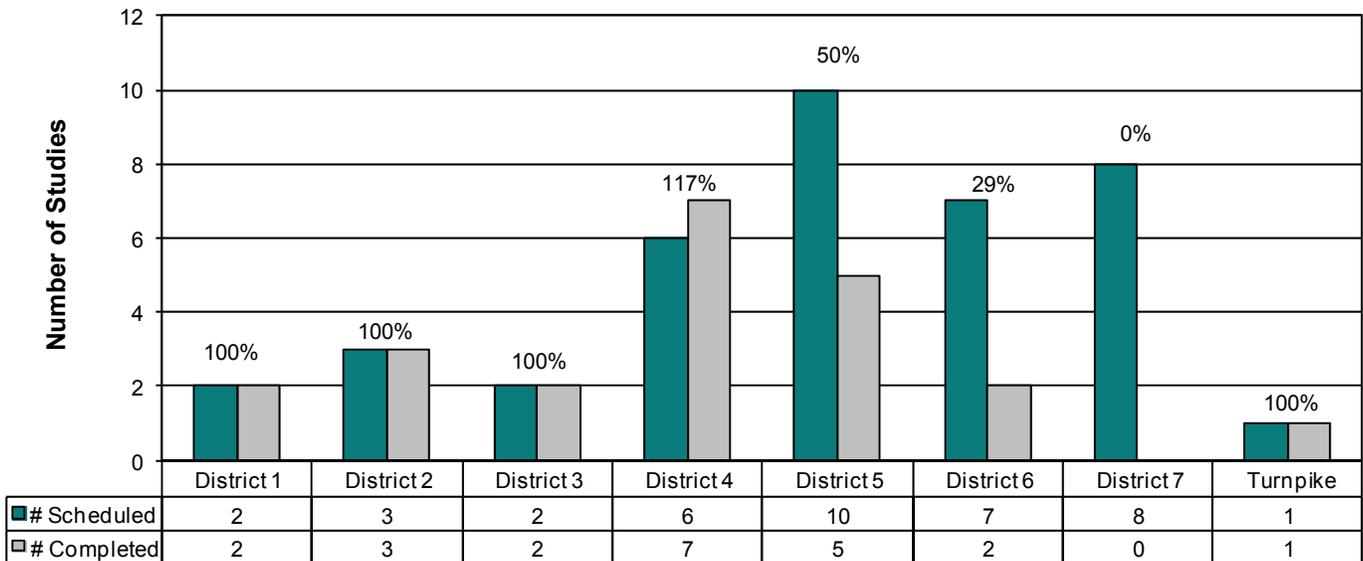
* FHWA data for fiscal year 2011/2012 was not available at time of publication.

Work Plan Completion

P1: VE Studies Scheduled vs. Completed
Annual Report FY 2011/2012

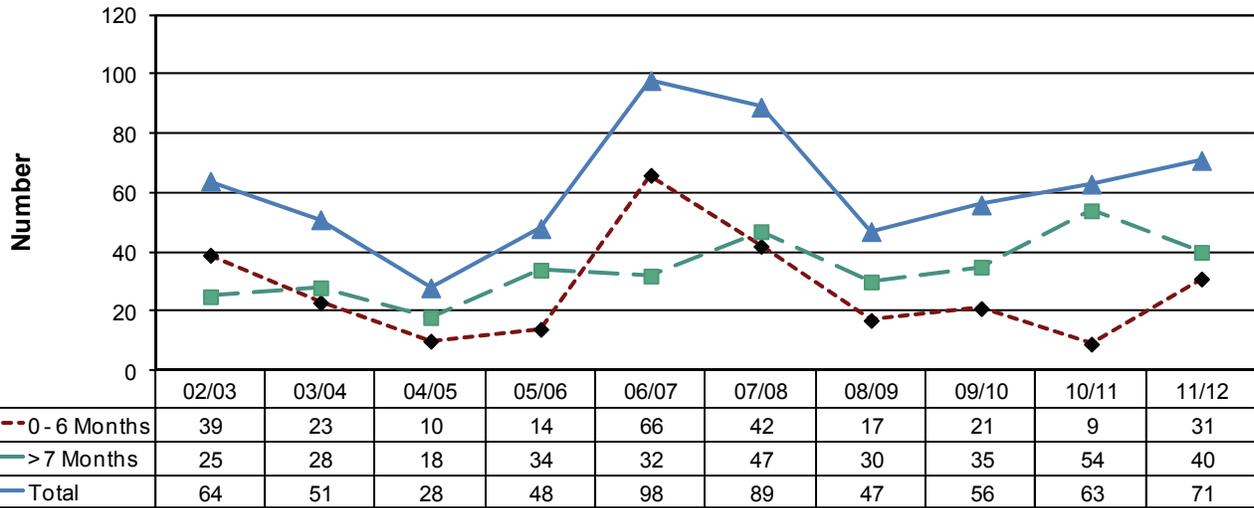


P1: VE Studies Scheduled vs Completed
Annual Report FY 2011/2012

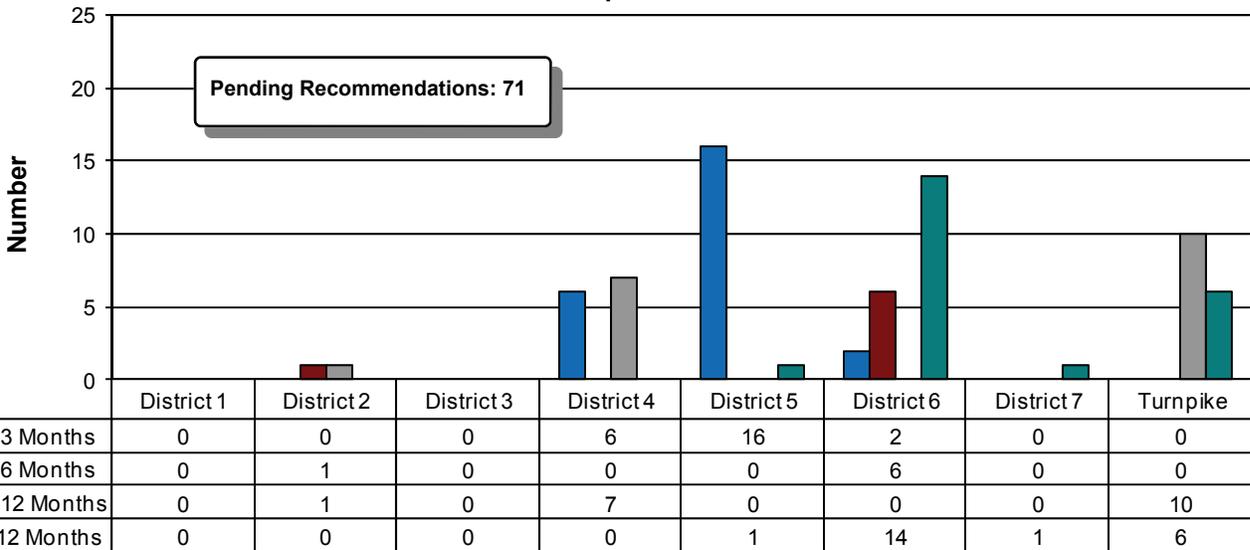


Pending Recommendations

P4: Annual # Pending Recommendations
Annual Report FY 2011/2012



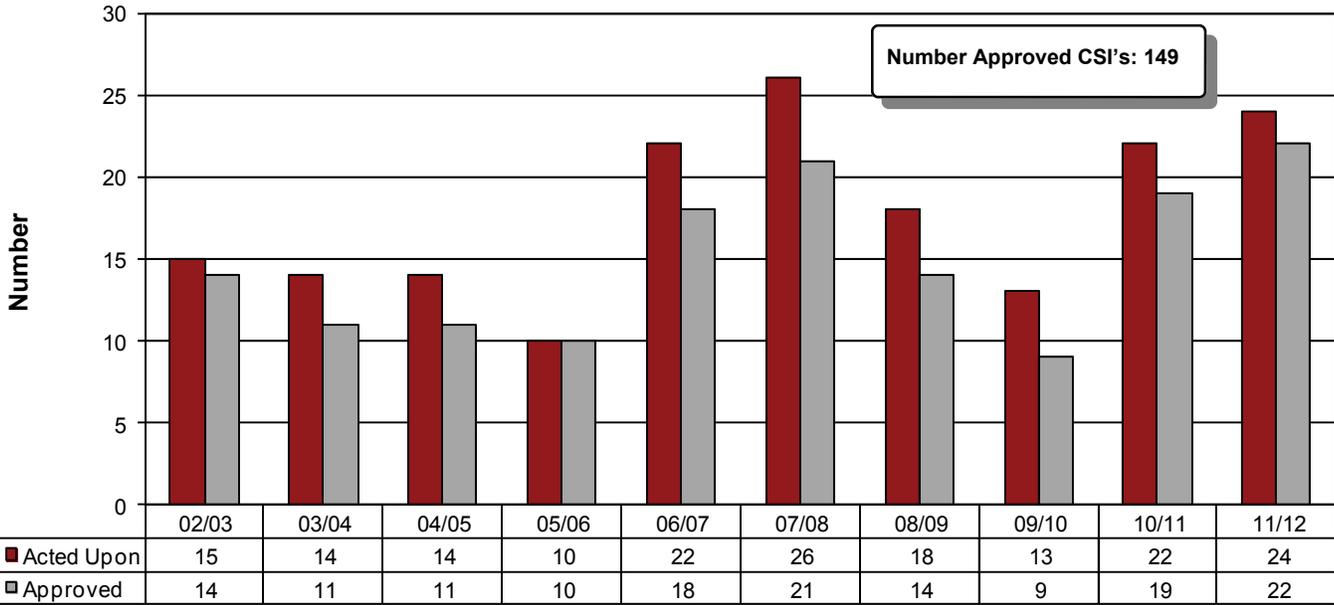
P4: # Pending Recommendations
Annual Quarter Report FY 2011/2012



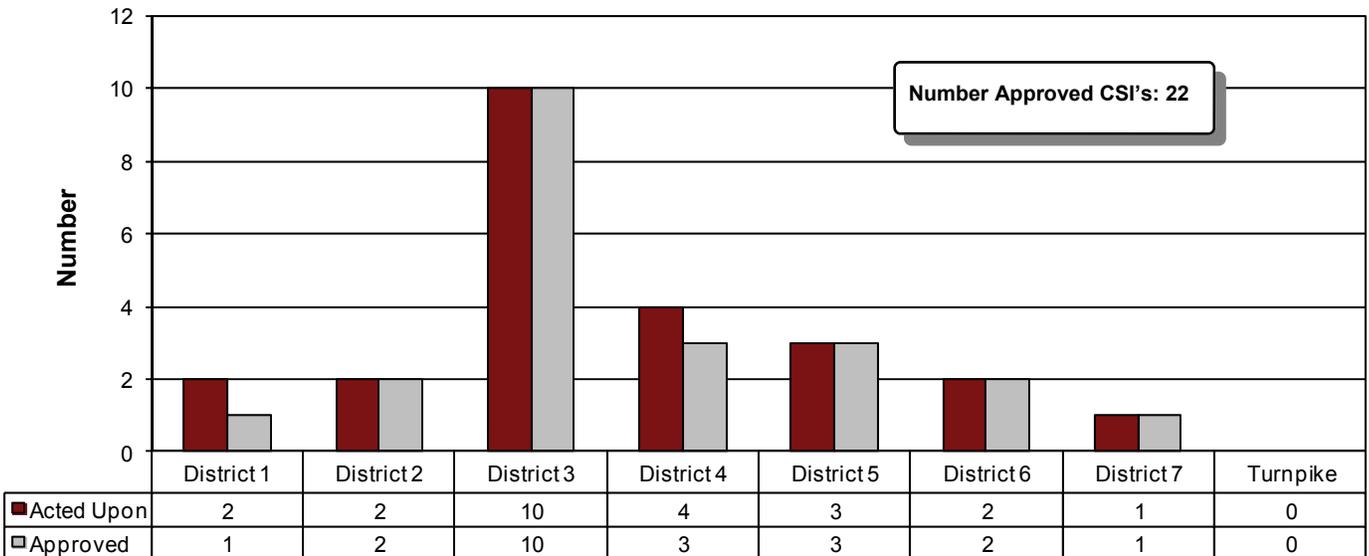
**Fiscal Year 2011/2012
Cost Savings Initiative
Performance Measures**

CSI Summary

Q1: Annual CSI (VECP's) Acted Upon



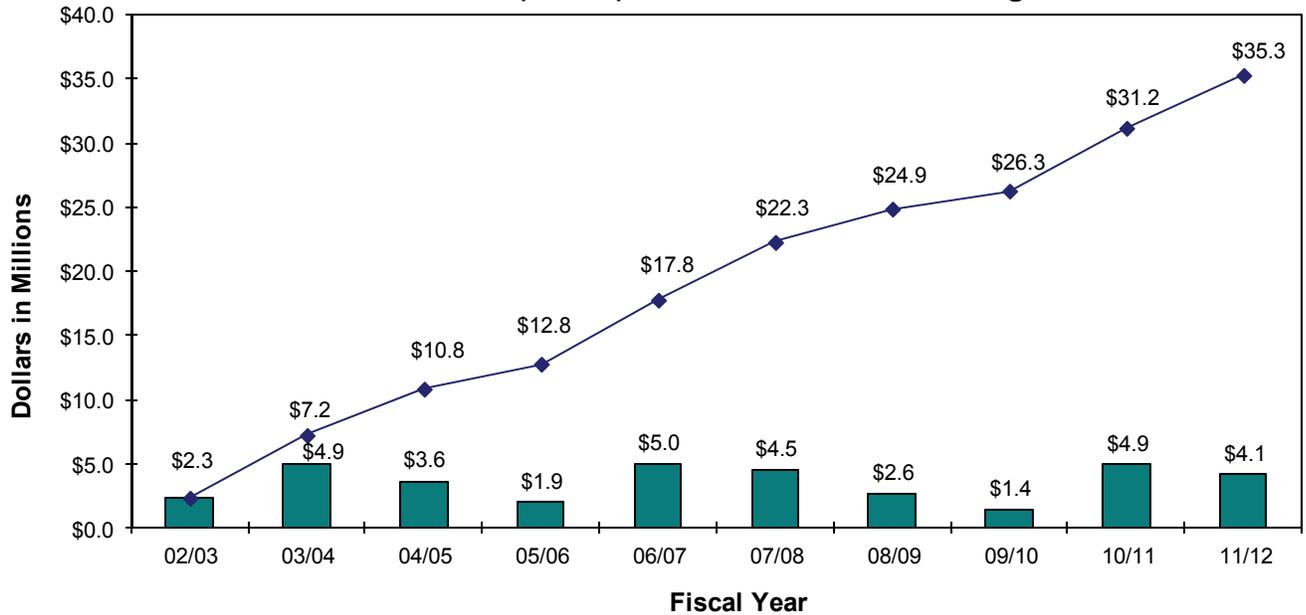
**Q1: CSI's Acted Upon
Annual Report Fiscal Year 2011/2012**



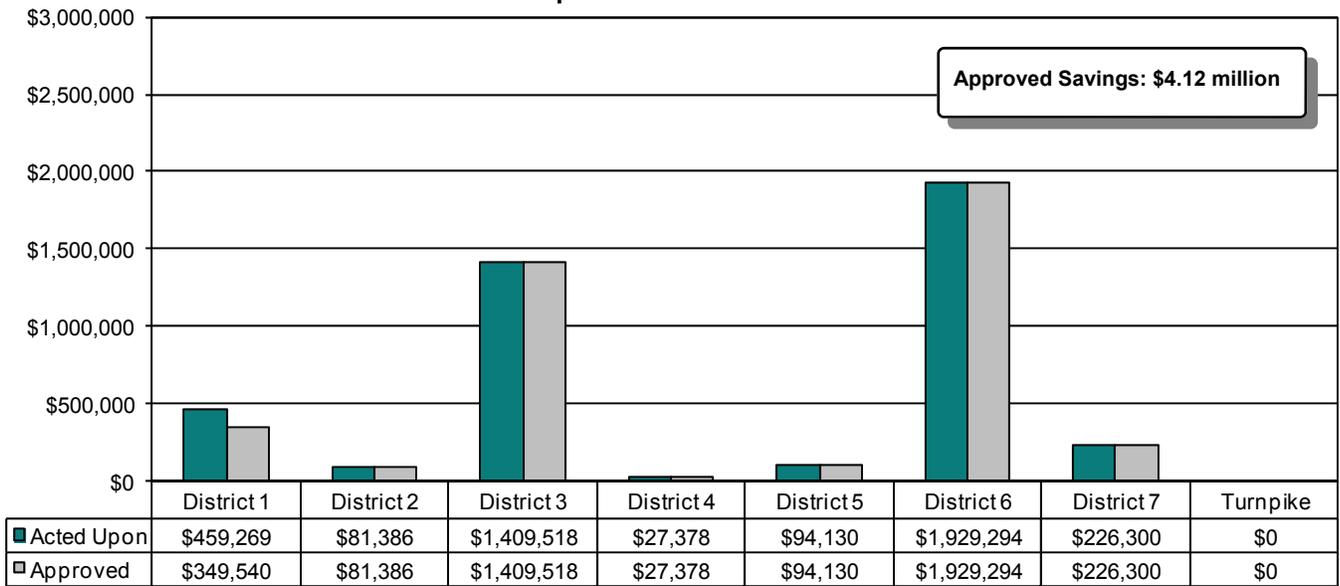
* Prior to fiscal year 2010/2011, Cost savings Initiatives (CSI) were formerly referred to as Value Engineering Change Proposals (VECP's).

CSI Approved Savings

Q2: Cumulative CSI (VECP) Construction Cost Savings



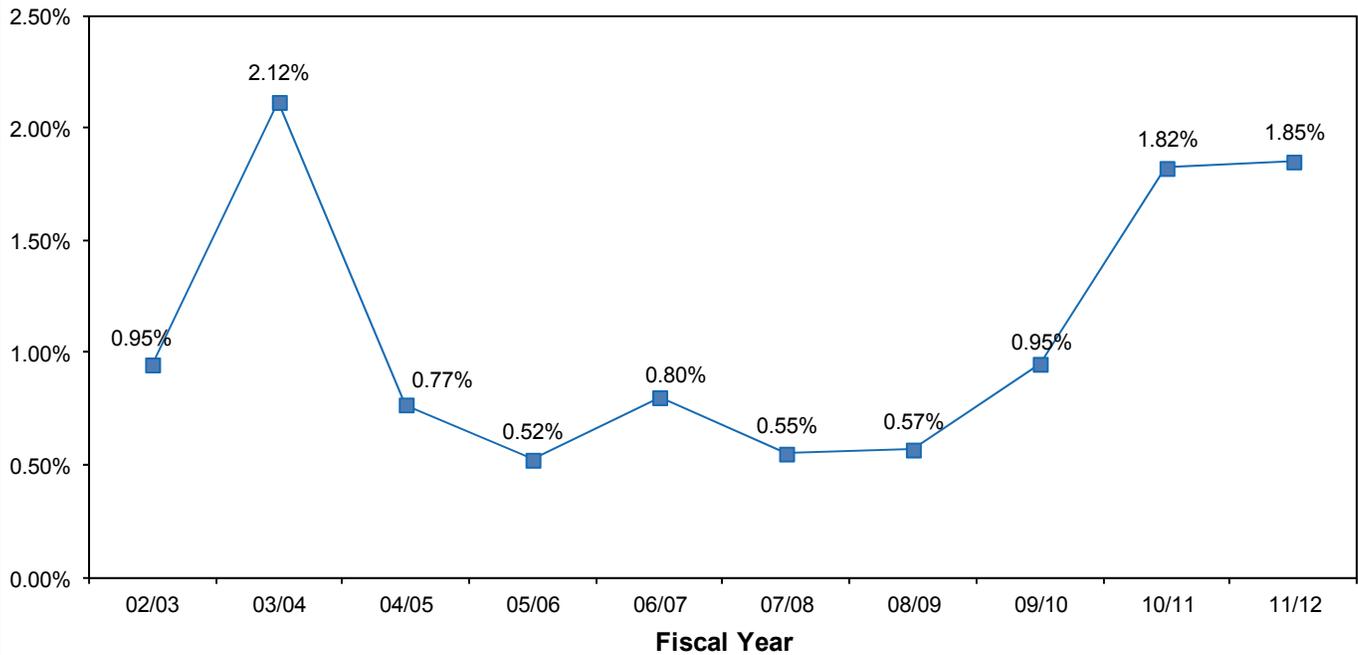
**Q2: Approved CSI Savings
Annual Report Fiscal Year 2011/2012**



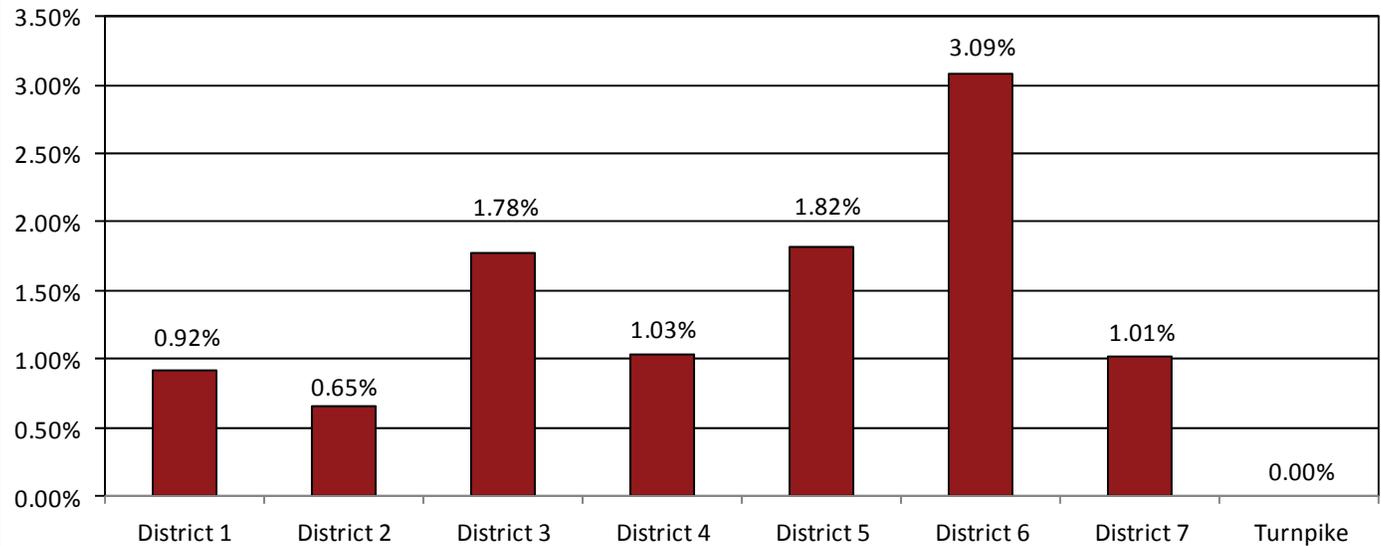
* Prior to fiscal year 2010/2011, Cost savings Initiatives (CSI) were formerly referred to as Value Engineering Change Proposals (VECP's).

CSI Percent Project Saved

Q3: CSI (VECP) Annual Percent Project Saved



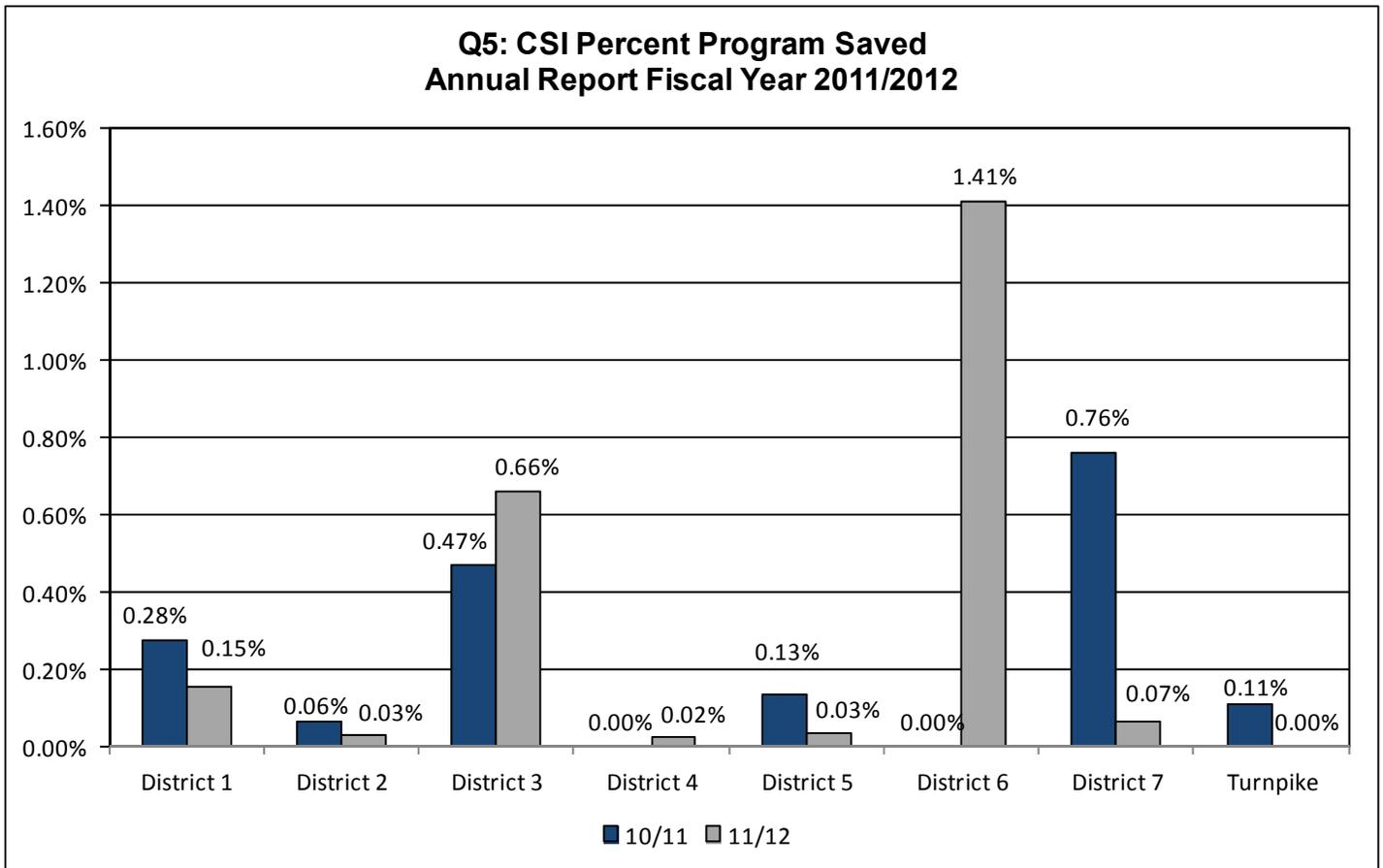
**Q4: CSI Percent Project Saved
Annual Report Fiscal Year 2011/2012**



* Prior to fiscal year 2010/2011, Cost savings Initiatives (CSI) were formerly referred to as Value Engineering Change Proposals (VECP's).

CSI Percent Program Saved

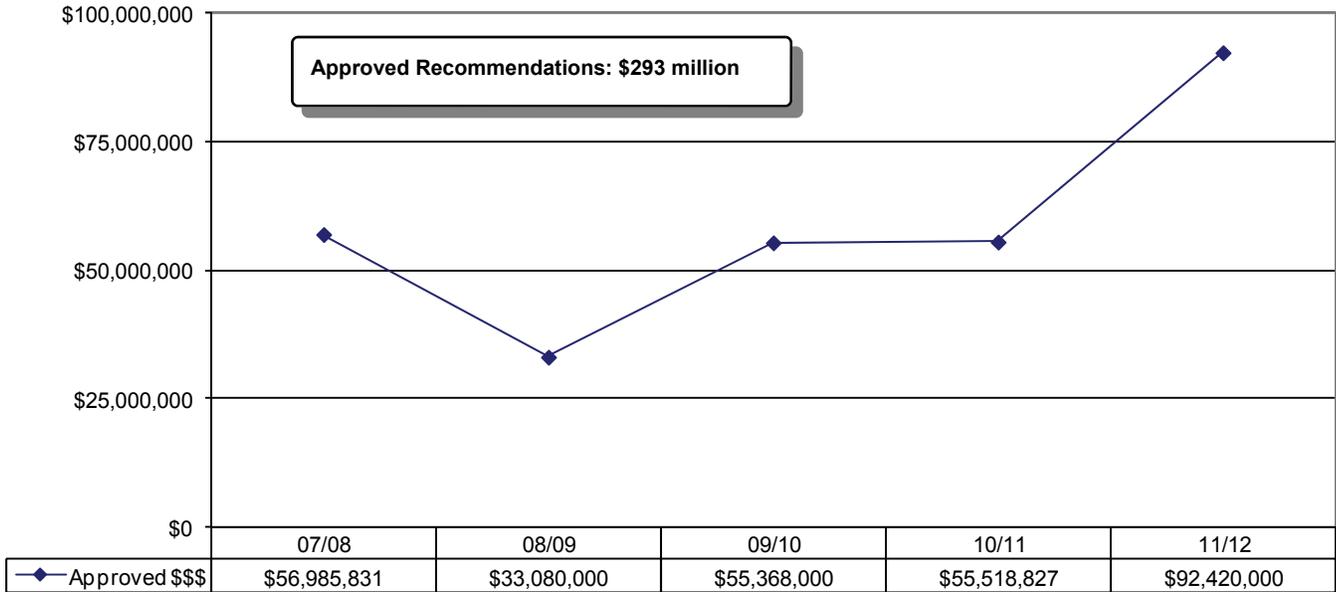
The Percent Program Saved is a new measure introduced last year. The intent is to compare the cost avoidance/savings to the overall work program. The measure is calculated by dividing the three year average monthly lettings into the overall cost avoidance/savings. Line charts showing trends will be developed in future years as data becomes available.



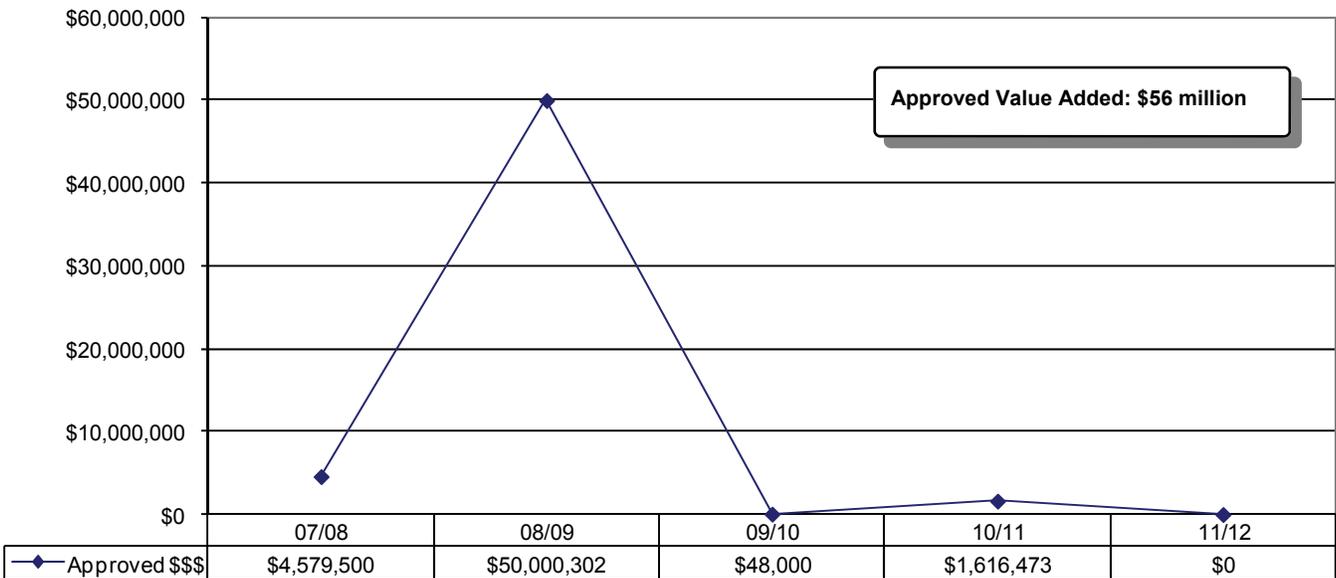
Appendix A
5 year History
Annual Performance Measures
by District

District 1

**Q1: Annual Approved Cost Avoidance/Savings
District 1**

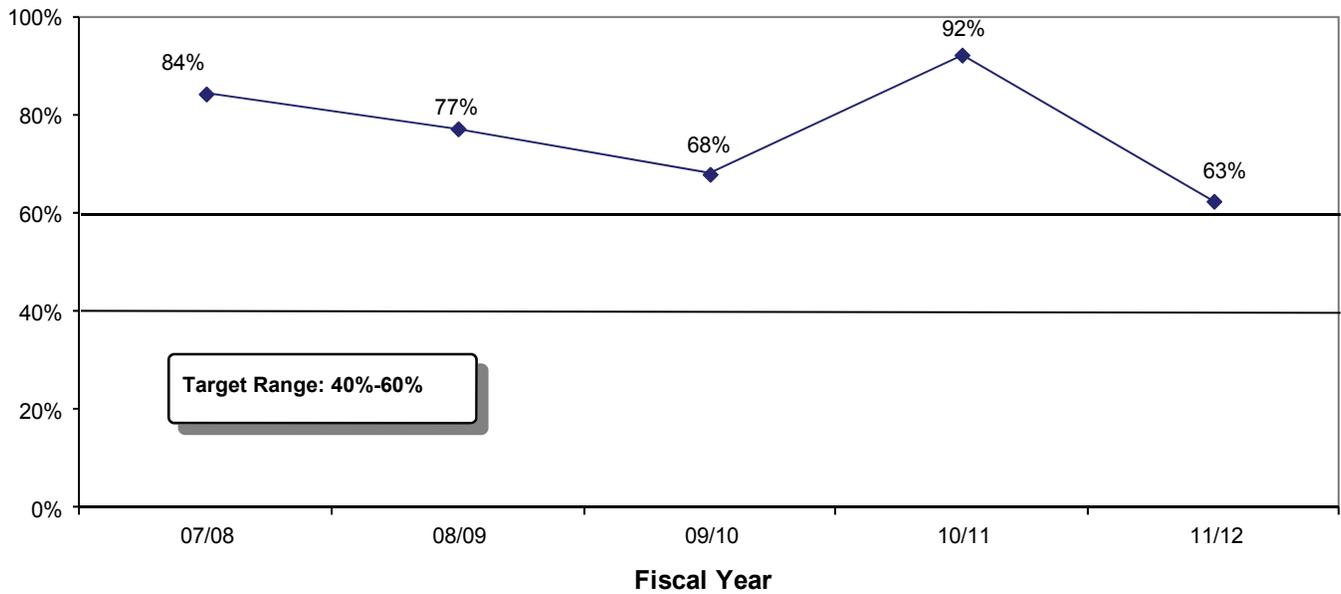


**Q2: Annual Approved Value Added Recommendations
District 1**

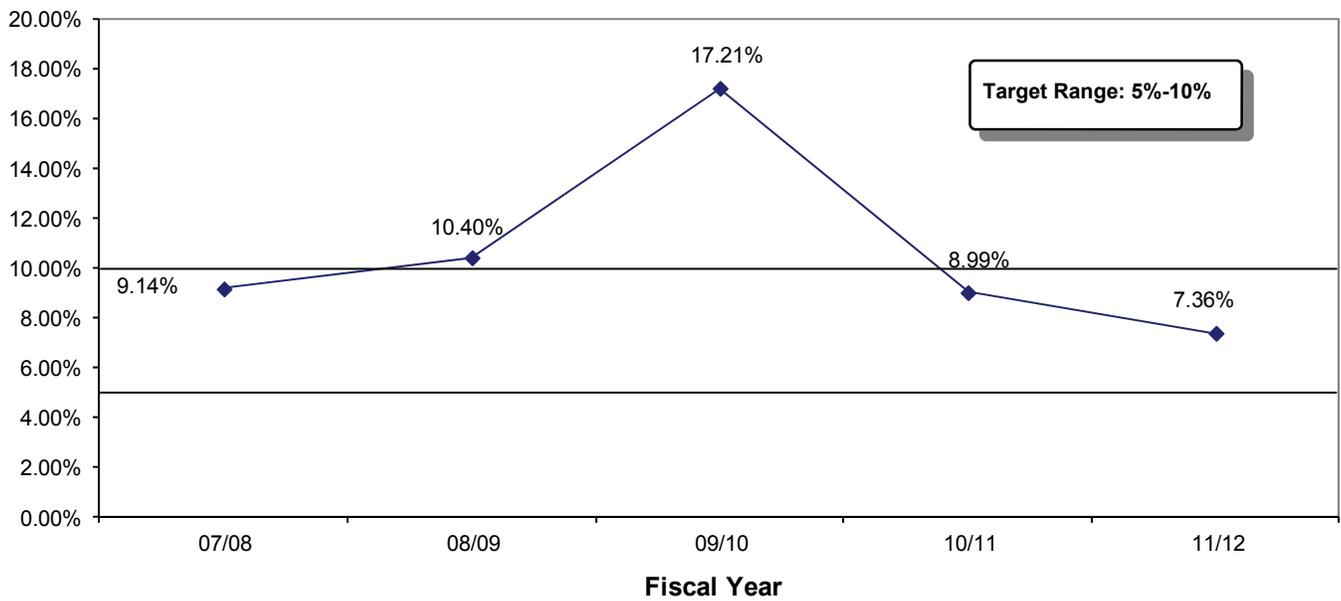


District 1

Q3: Annual Adoption Rate District 1

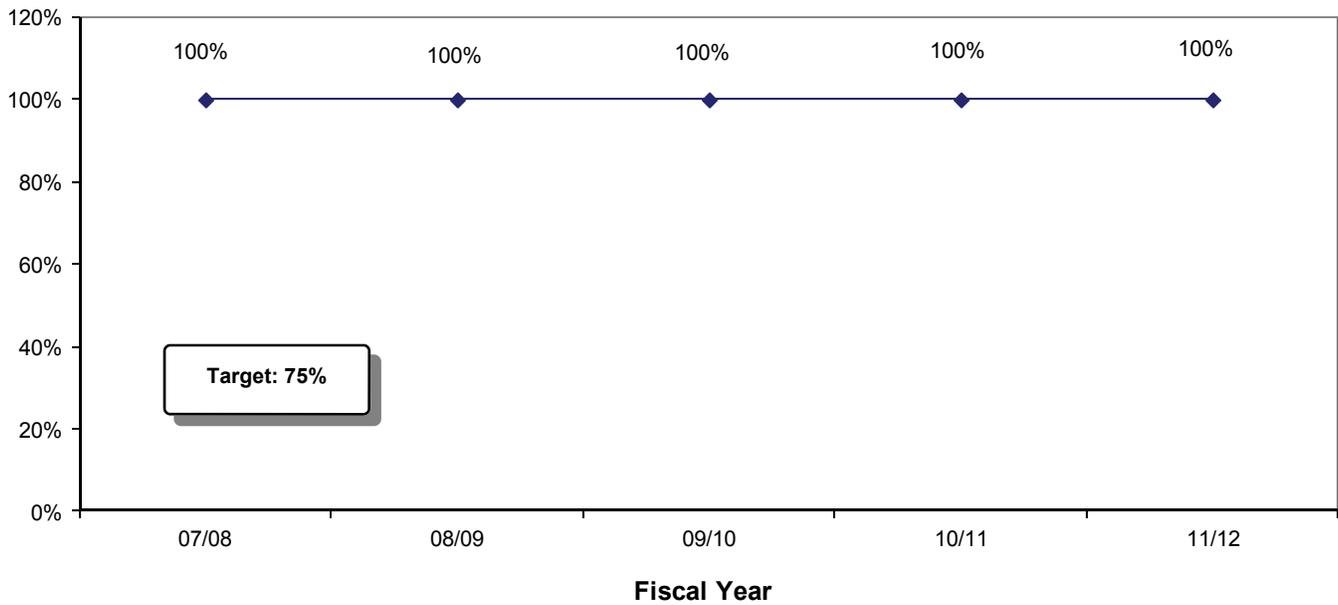


Q4: Annual Percent Project Saved District 1

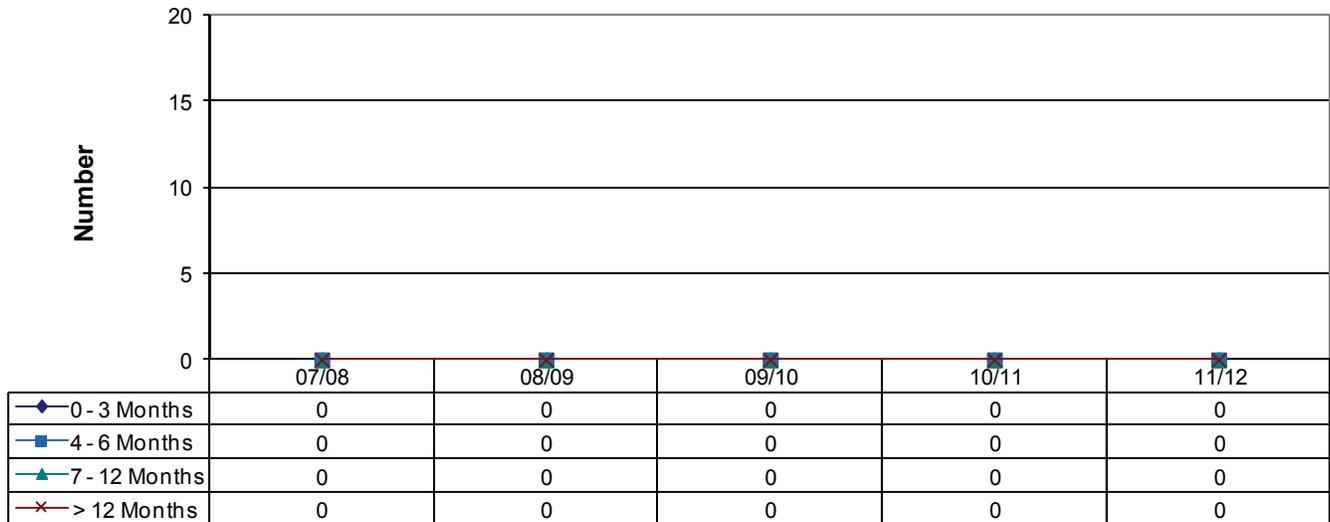


District 1

P1: % Scheduled VE Studies Completed
District 1

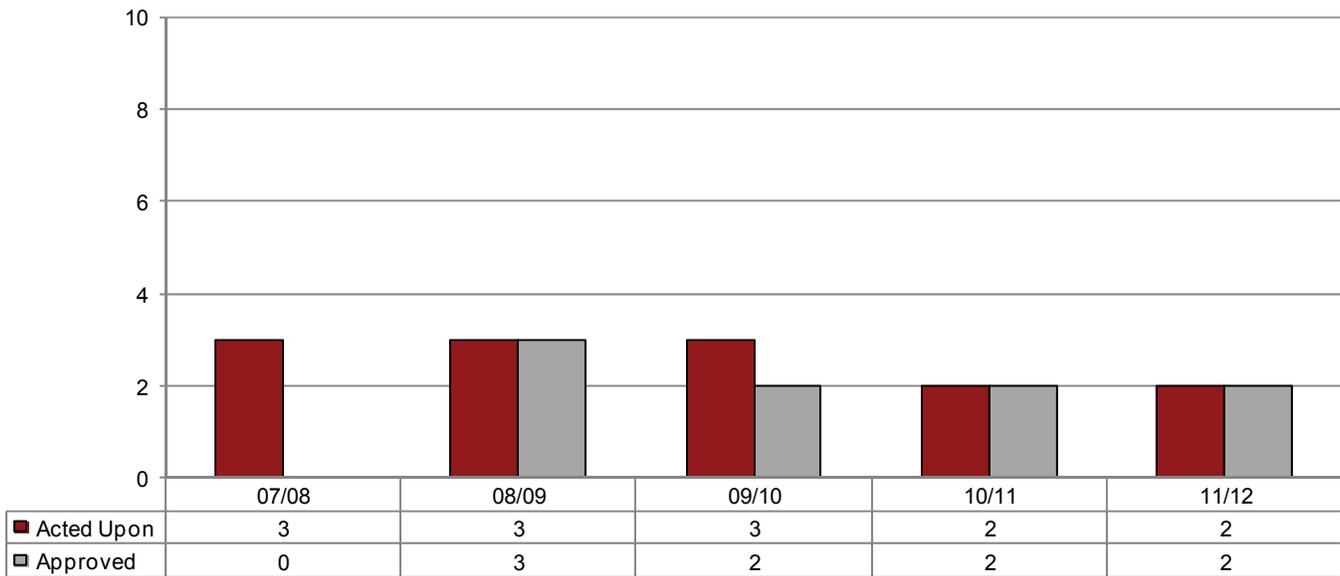


P4: Annual # Pending Recommendations
District 1

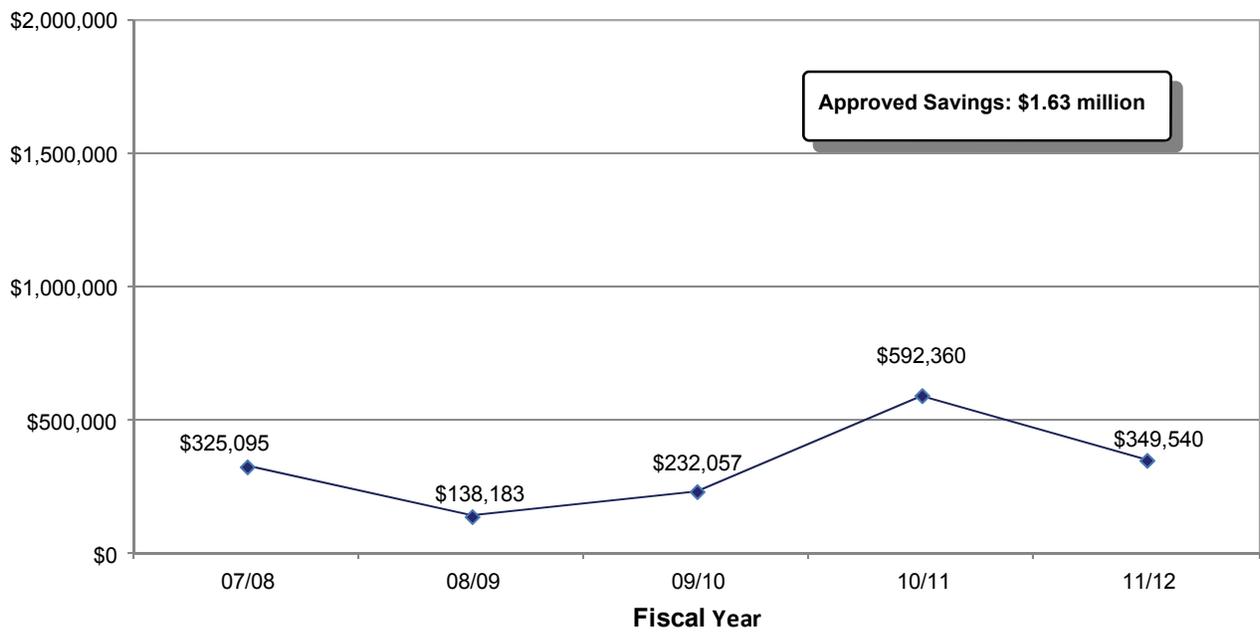


District 1

Q1: Annual VECP's Acted Upon

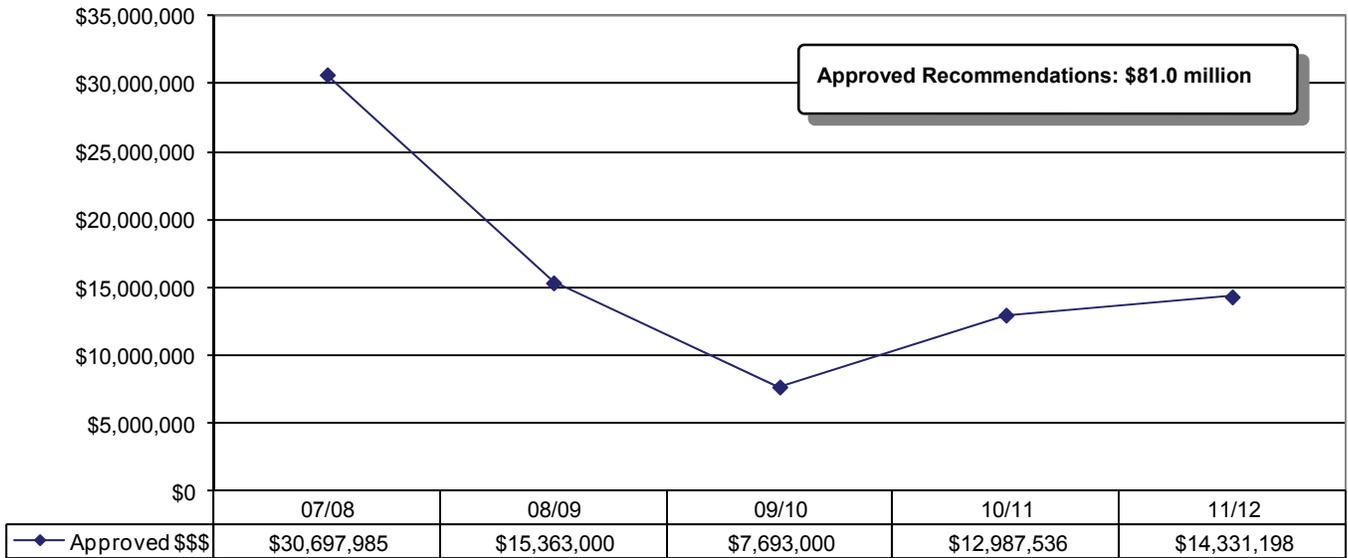


Q2: Annual Approved VECP Savings

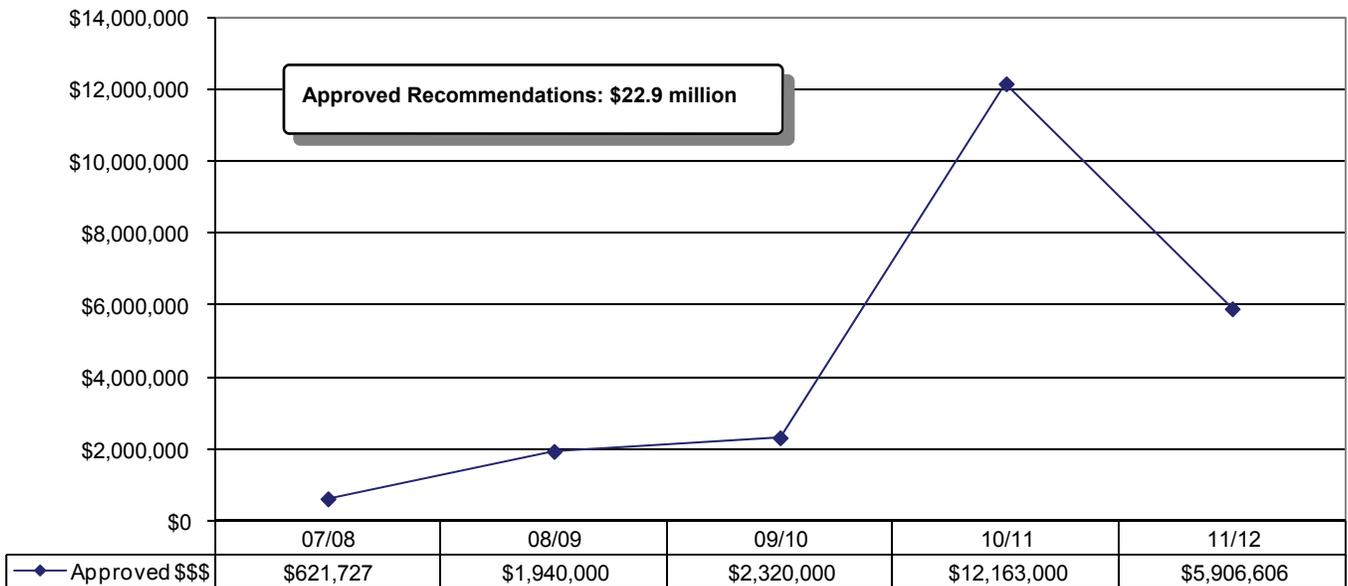


District 2

**Q1: Annual Approved Cost Avoidance/Savings
District 2**

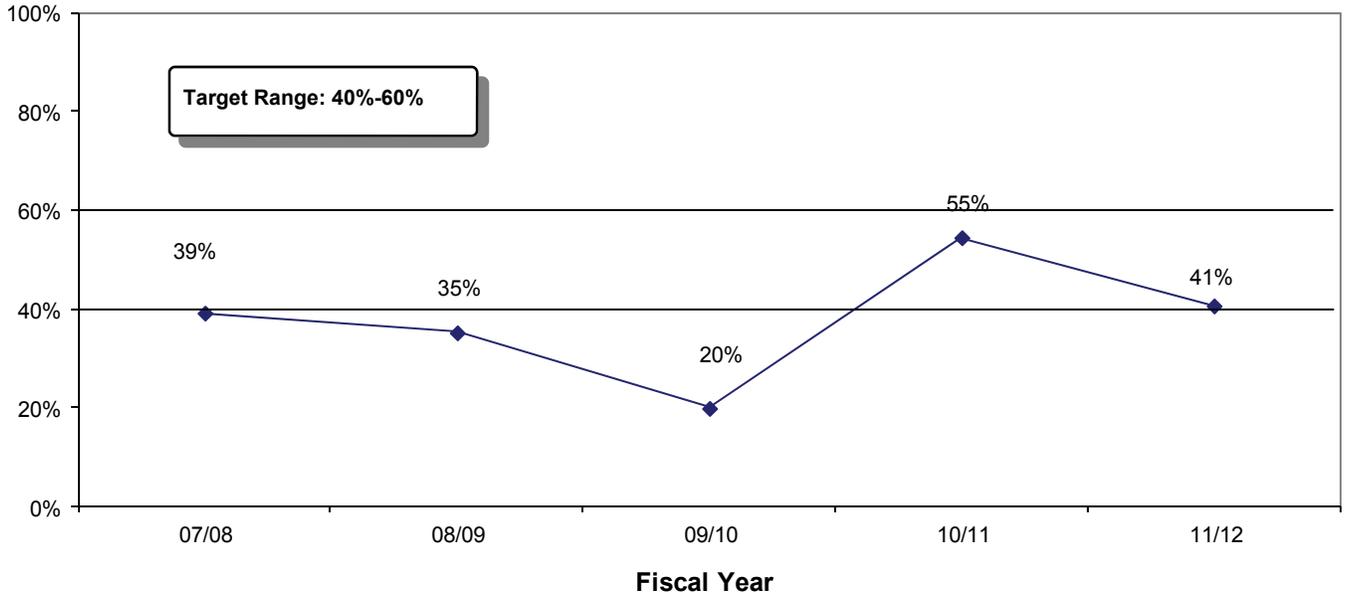


**Q2: Annual Approved Value Added Recommendations
District 2**

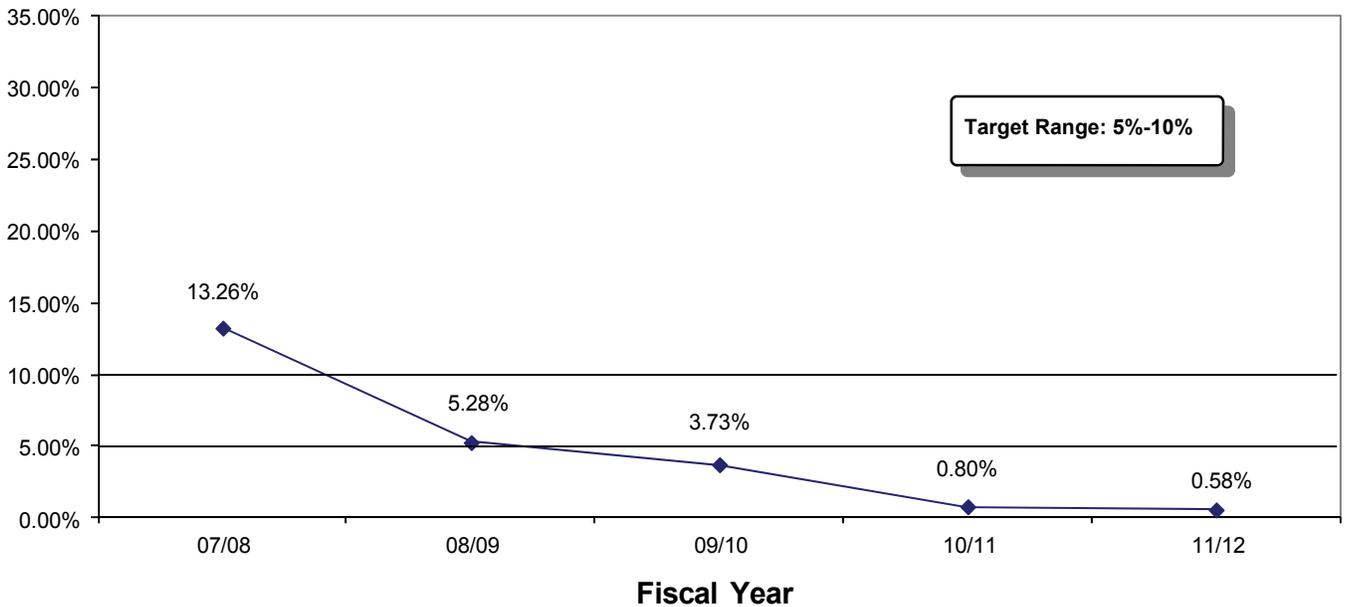


District 2

Q3: Annual Adoption Rate District 2

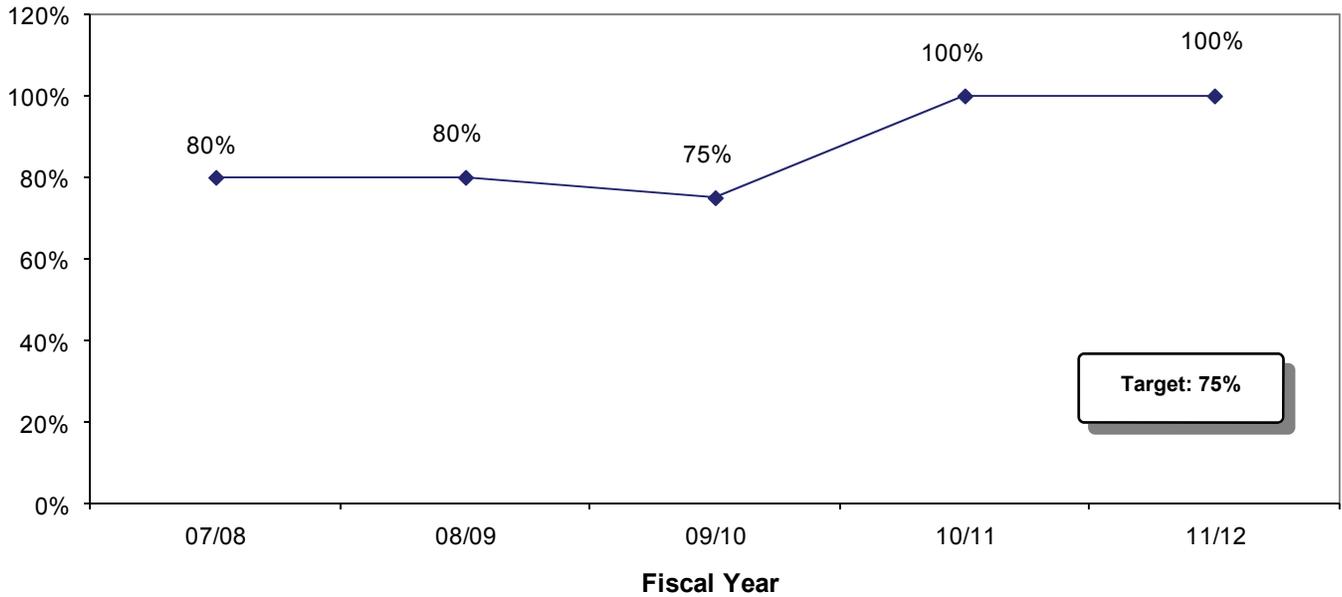


Q4: Annual Percent Project Saved District 2

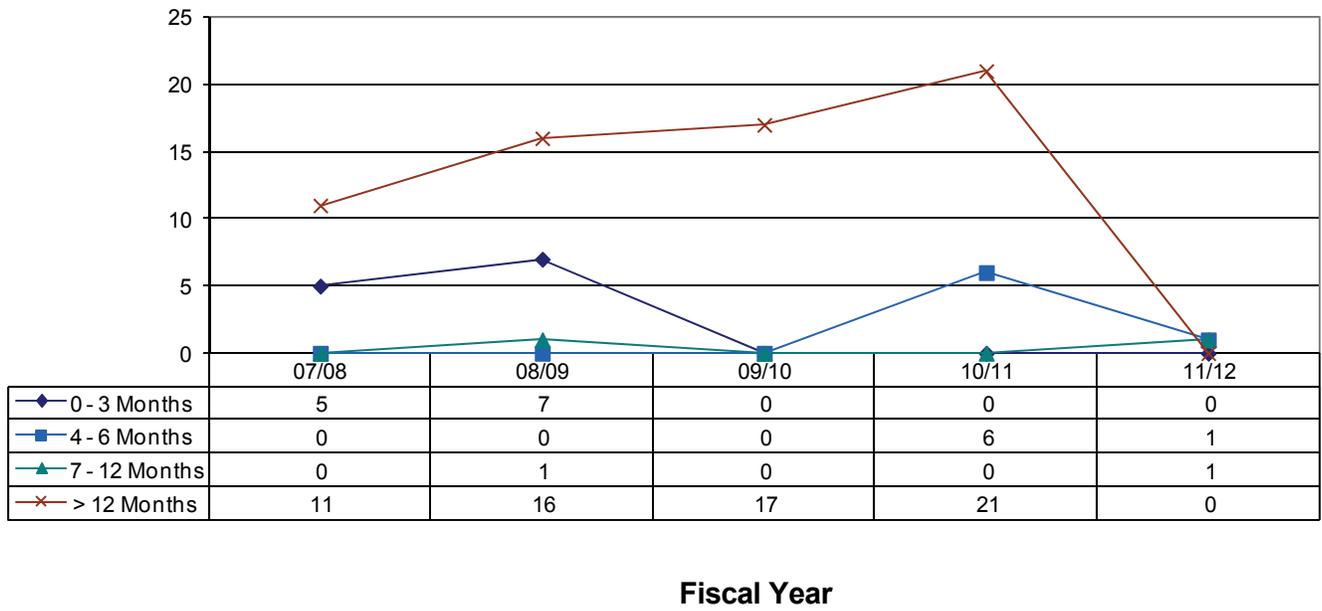


District 2

**P1: % Scheduled VE Studies Completed
District 2**

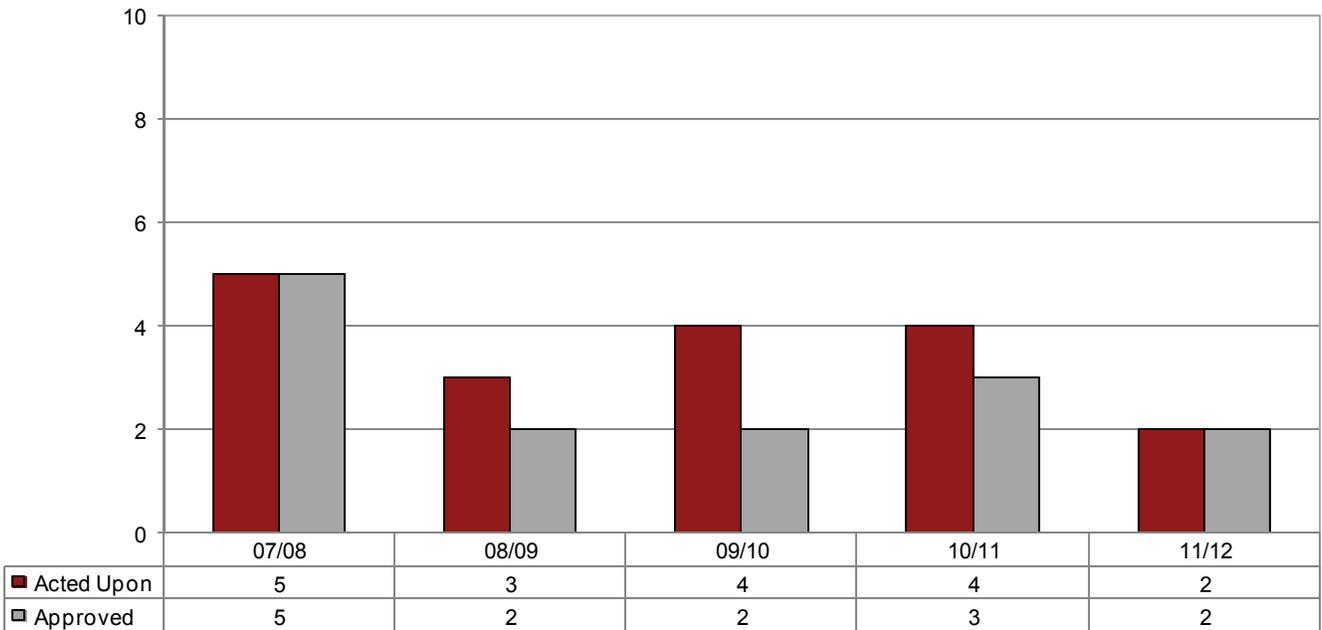


**P4: Annual # Pending Recommendations
District 2**

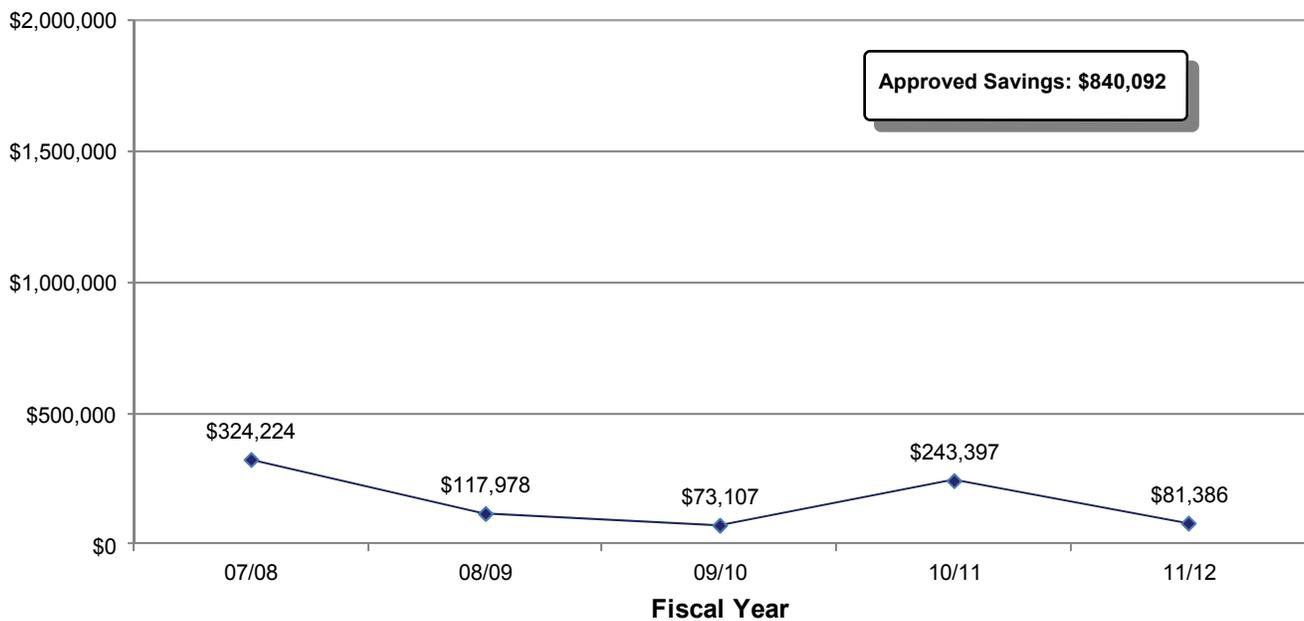


District 2

Q1: Annual VECP's Acted Upon

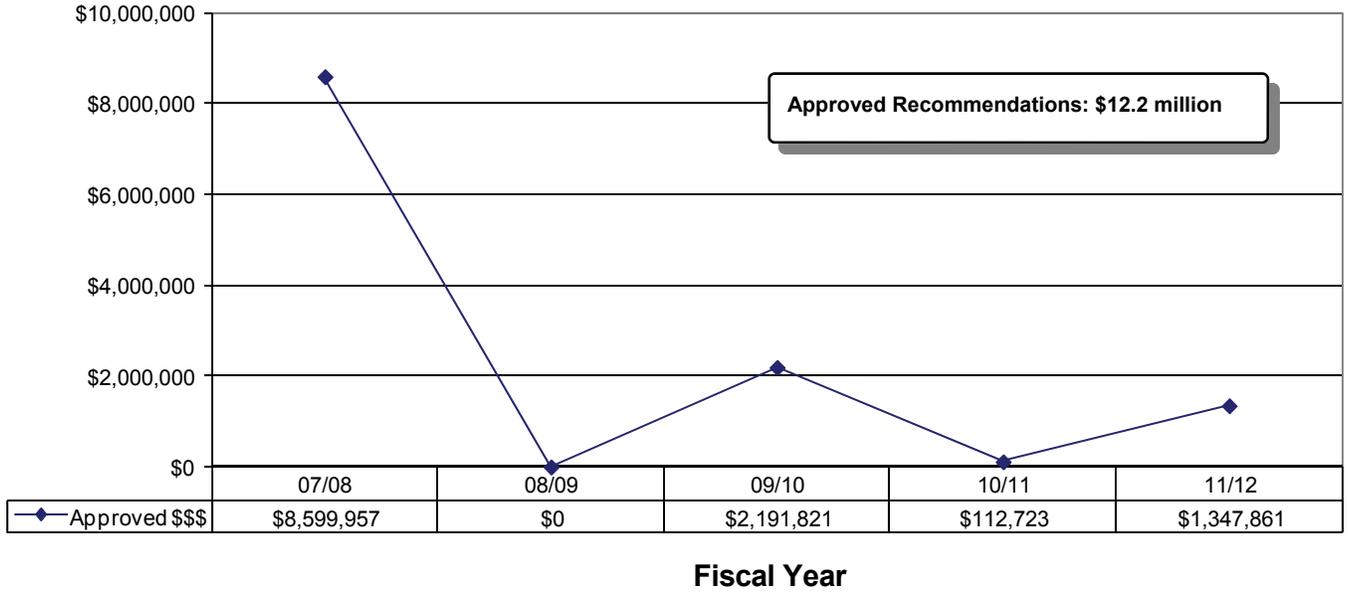


Q2: Annual Approved VECP Savings

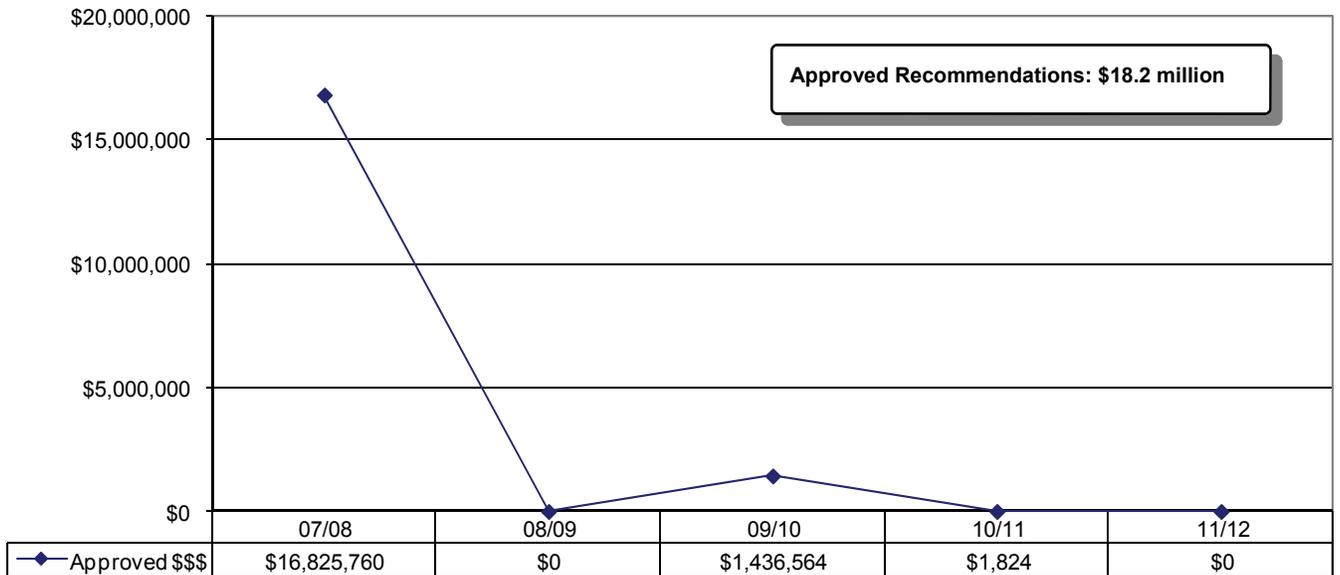


District 3

Q1: Annual Approved Cost Avoidance/Savings
District 3

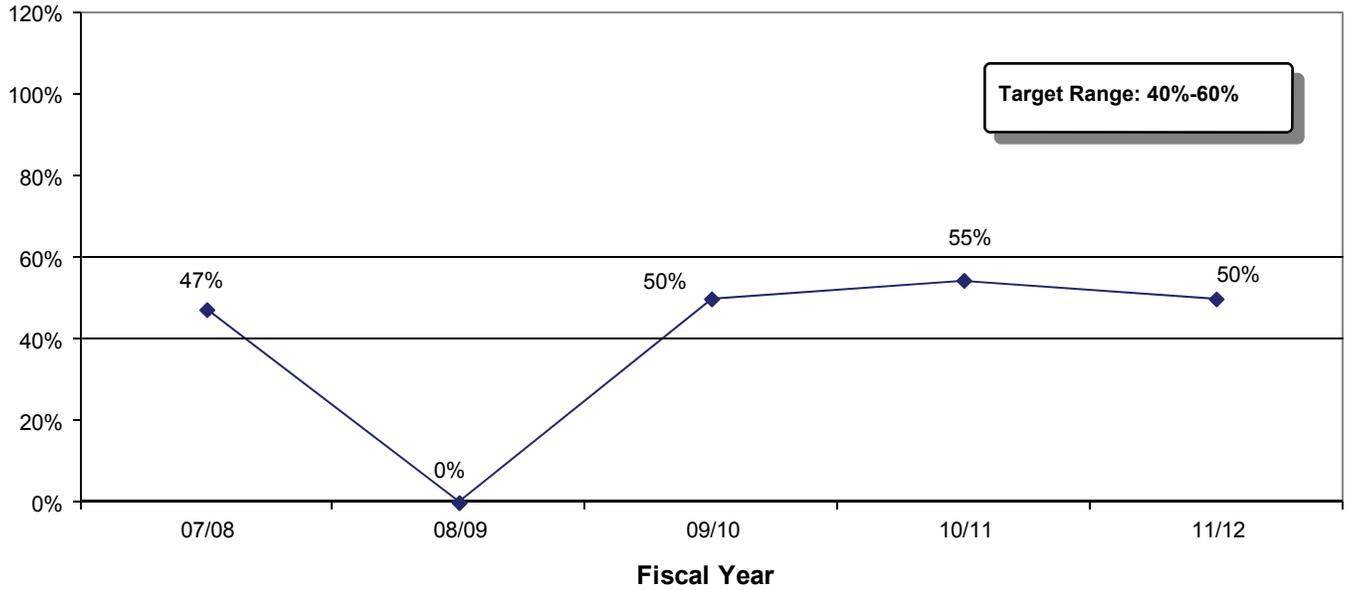


Q2: Annual Approved Value Added Recommendations
District 3

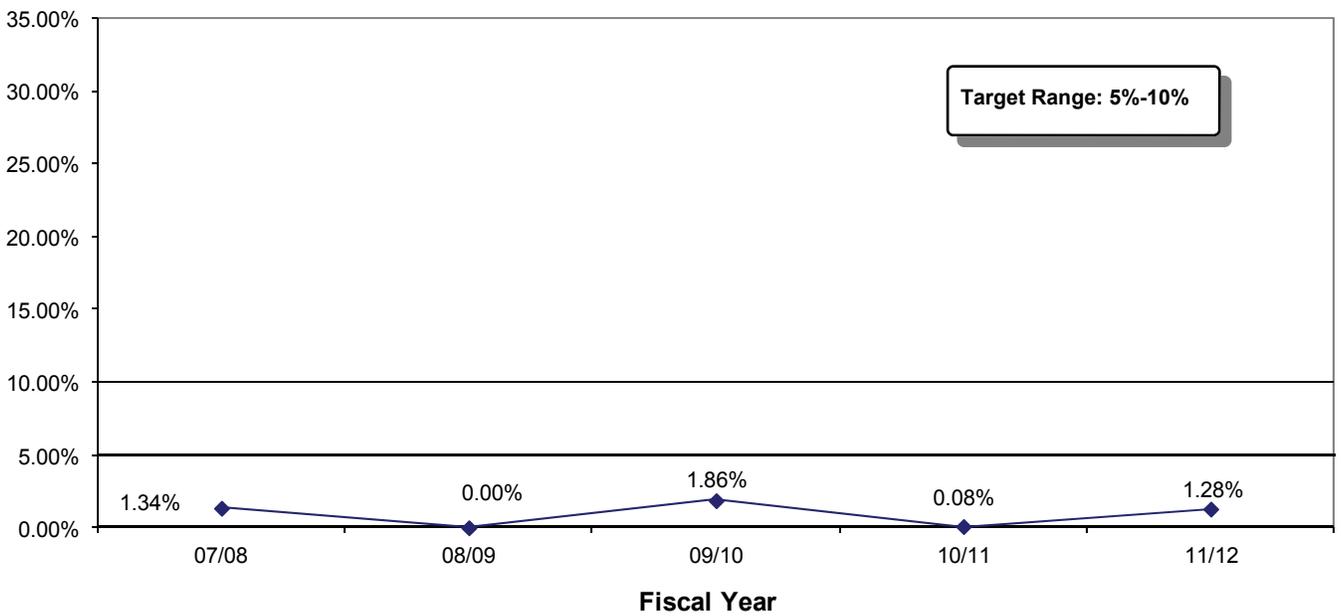


District 3

Q3: Annual Adoption Rate District 3

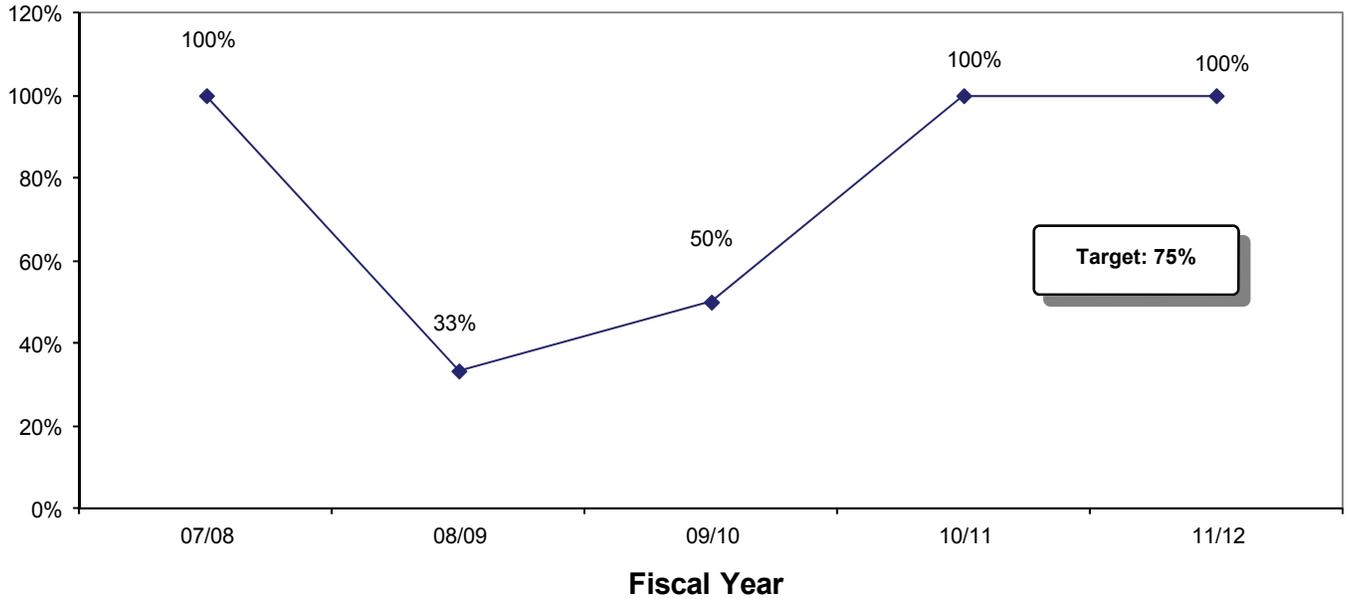


Q4: Annual Percent Project Saved District 3

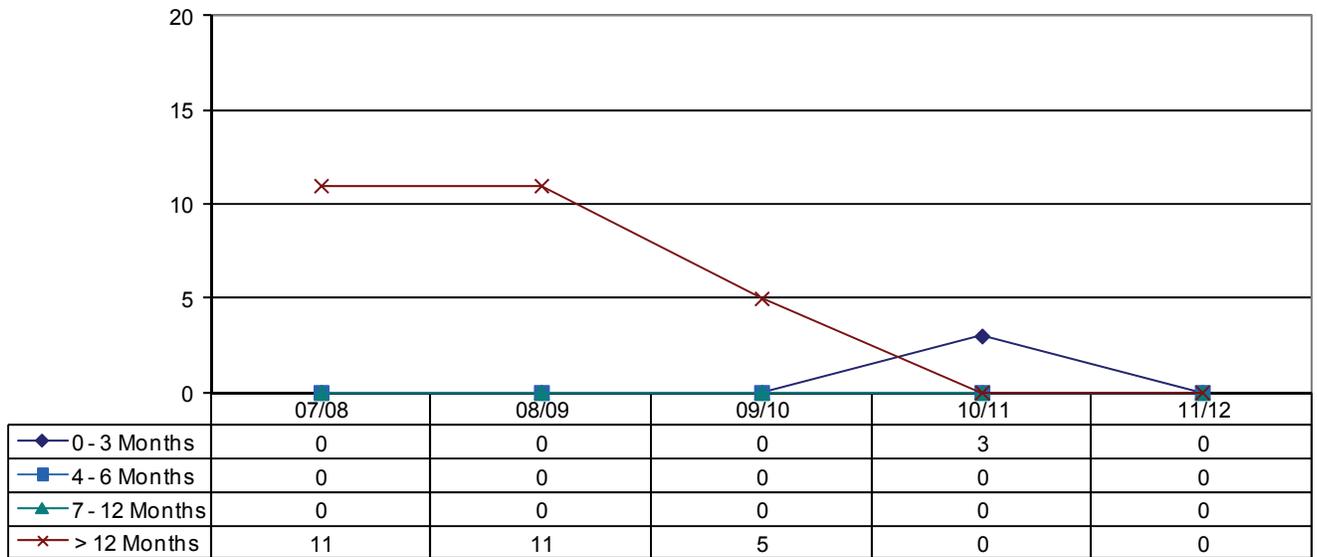


District 3

P1: % Scheduled VE Studies Completed
District 3

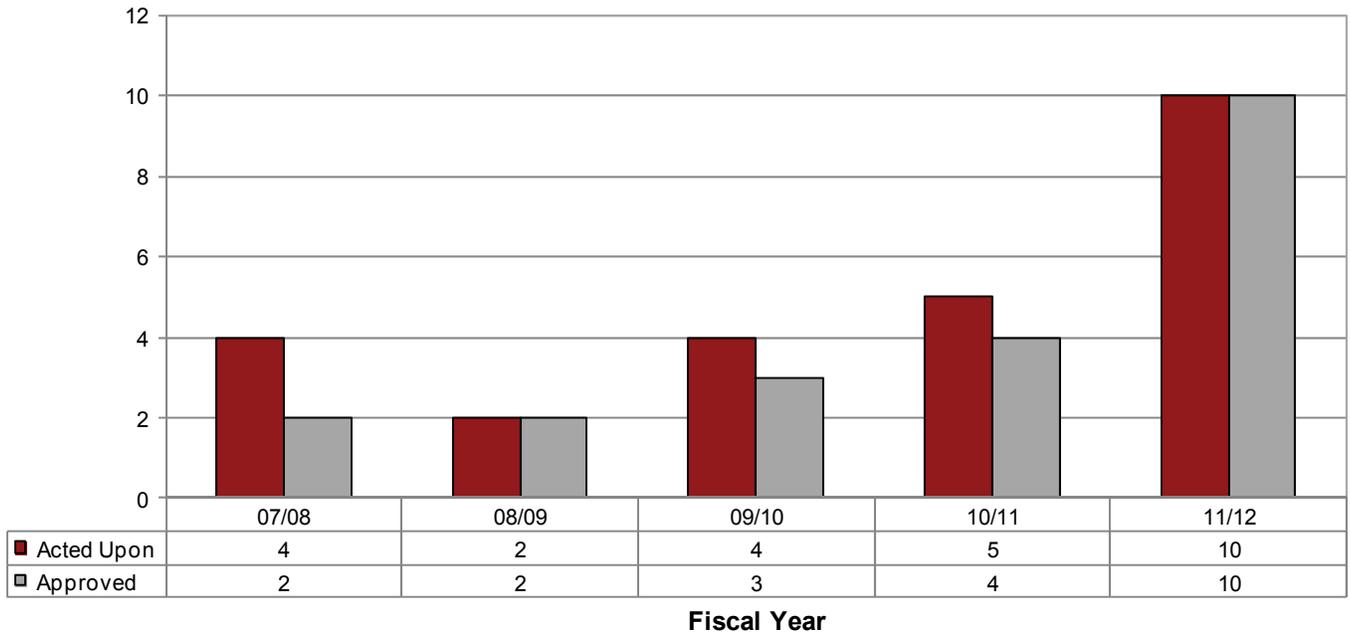


P4: Annual # Pending Recommendations
District 3

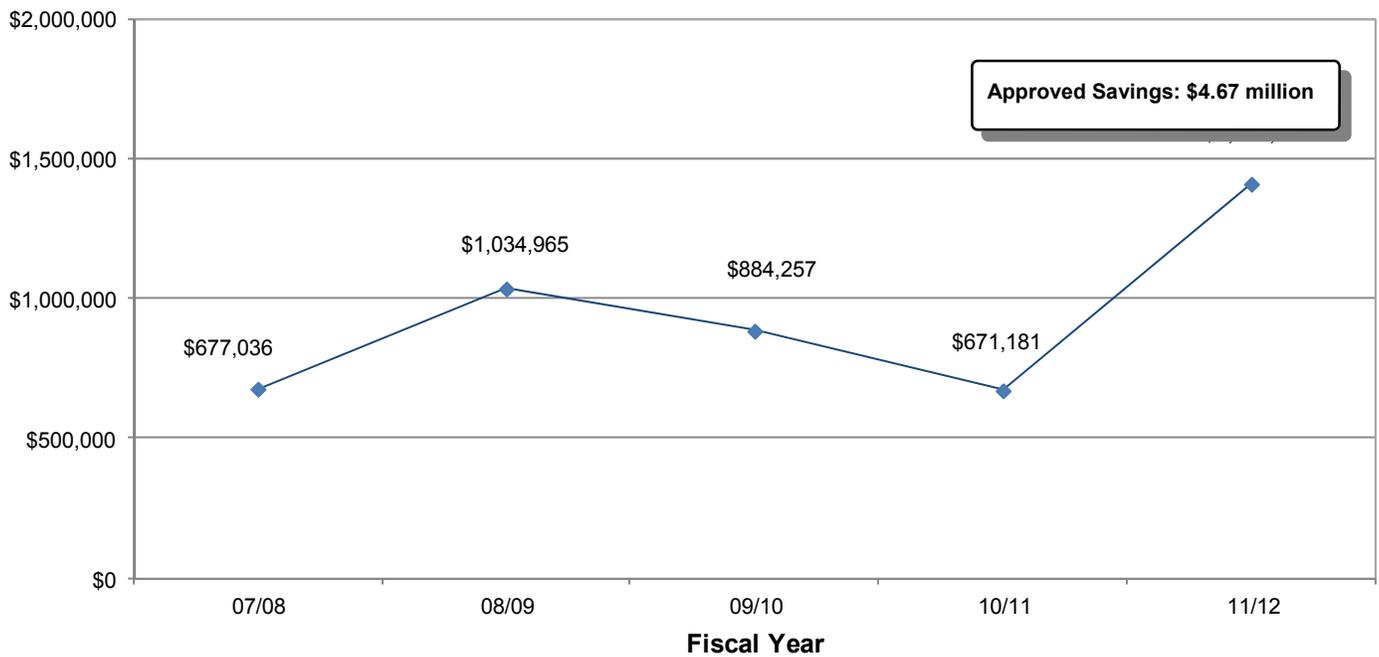


District 3

Q1: Annual VECP's Acted Upon

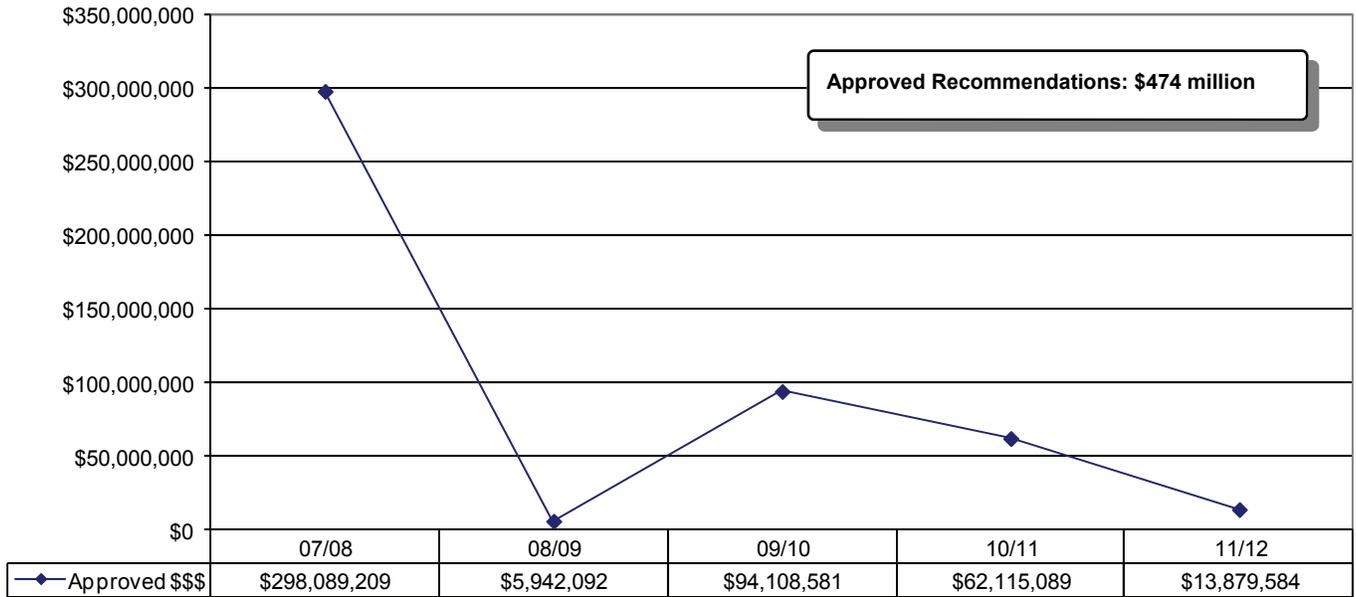


Q2: Annual Approved VECP Savings

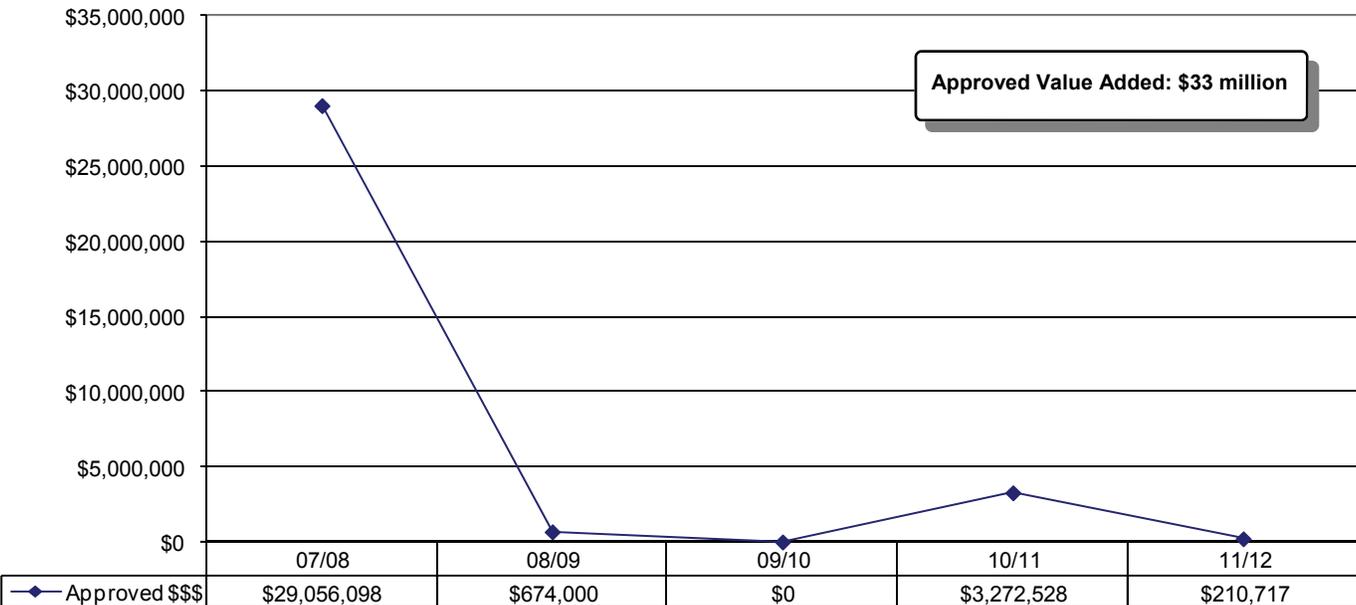


District 4

P1: Annual Approved Cost Avoidance/Savings
District 4

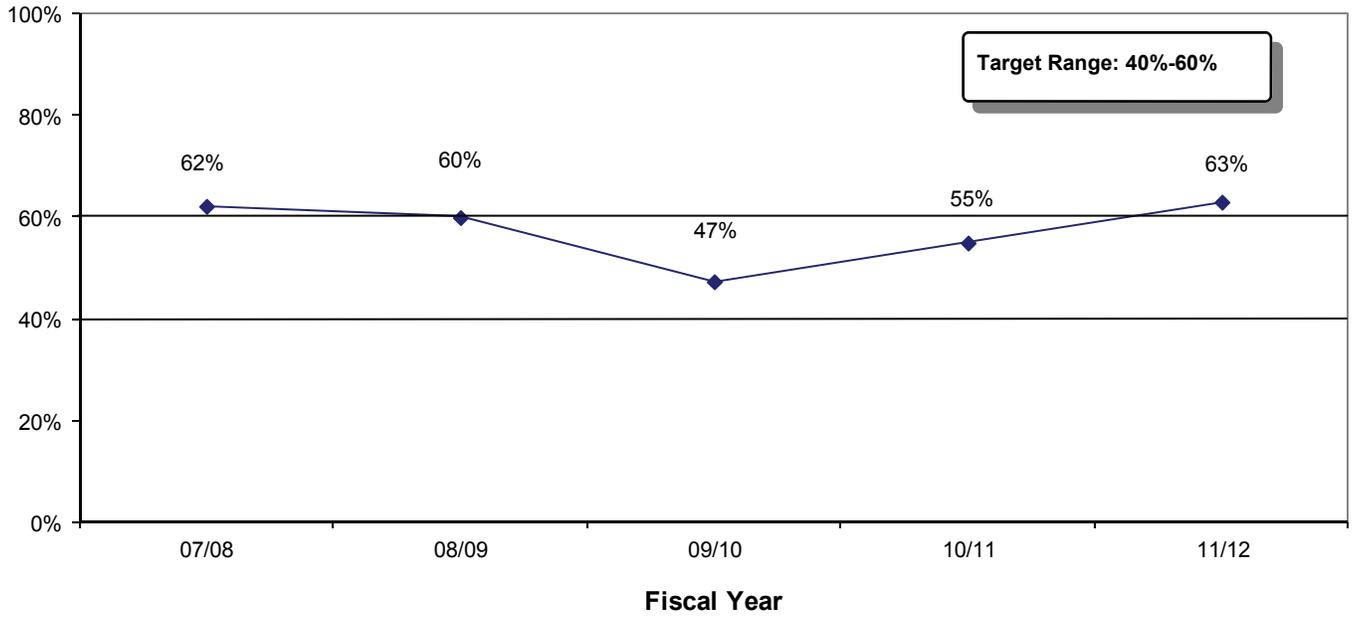


Q2: Annual Approved Value Added Recommendations
District 4

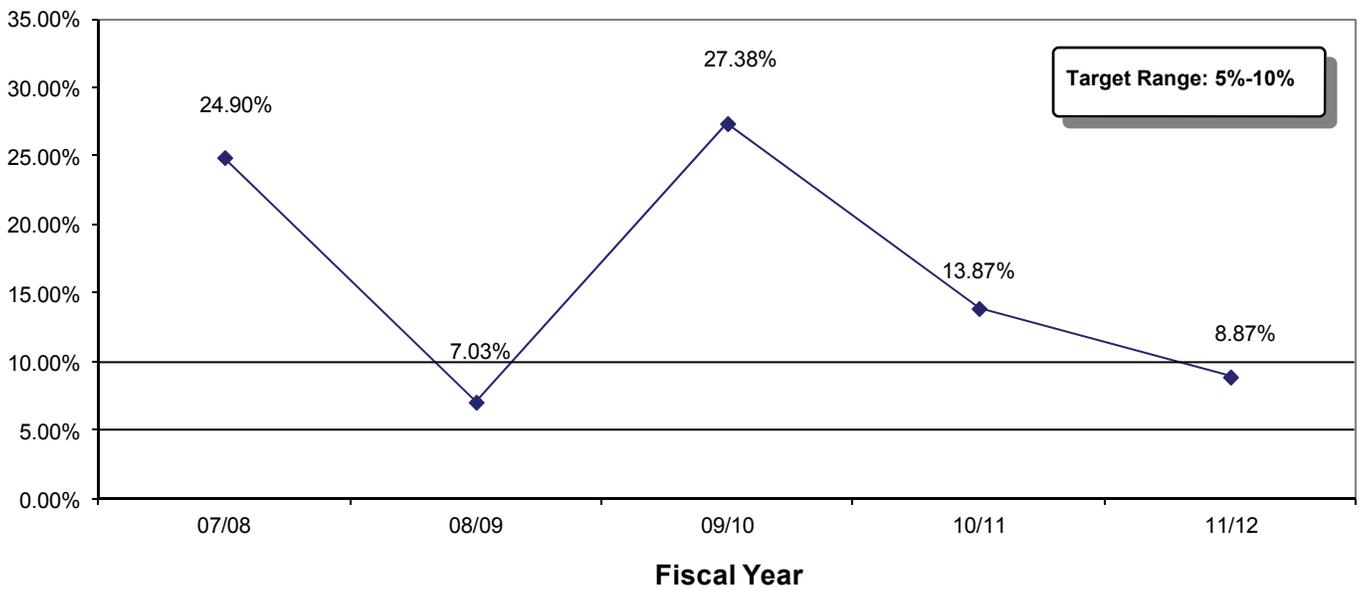


District 4

Q3: Annual Adoption Rate District 4

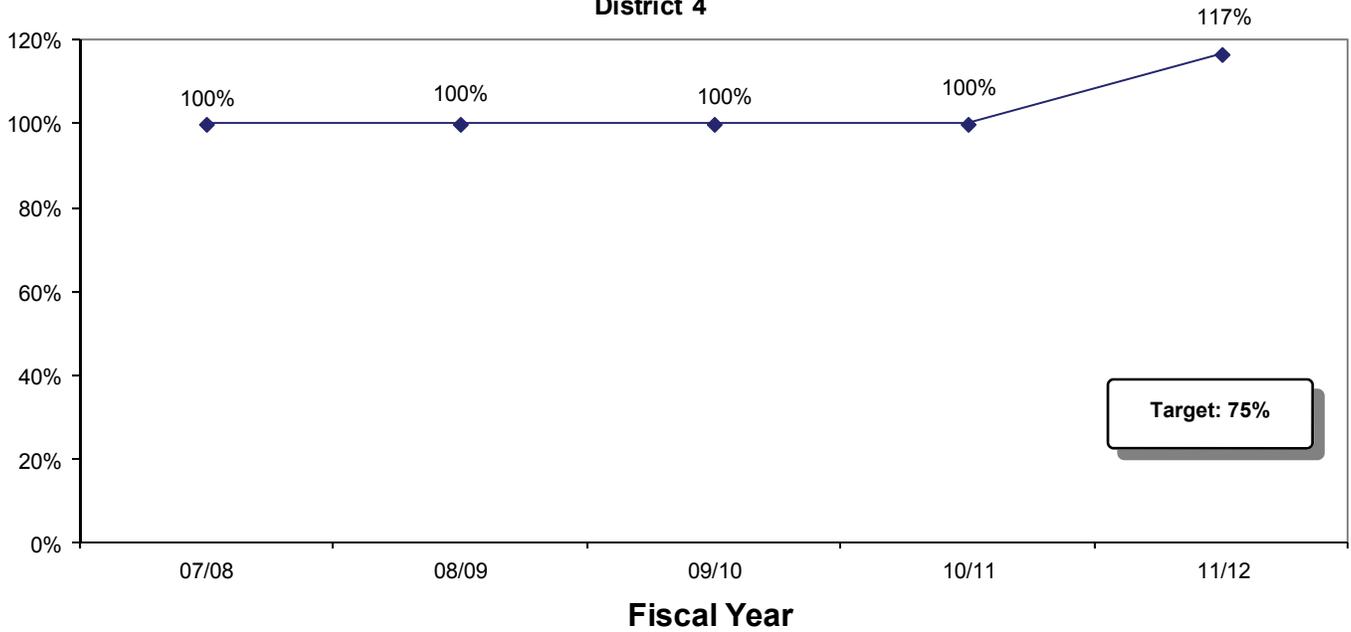


Q4: Annual Percent Project Saved District 4

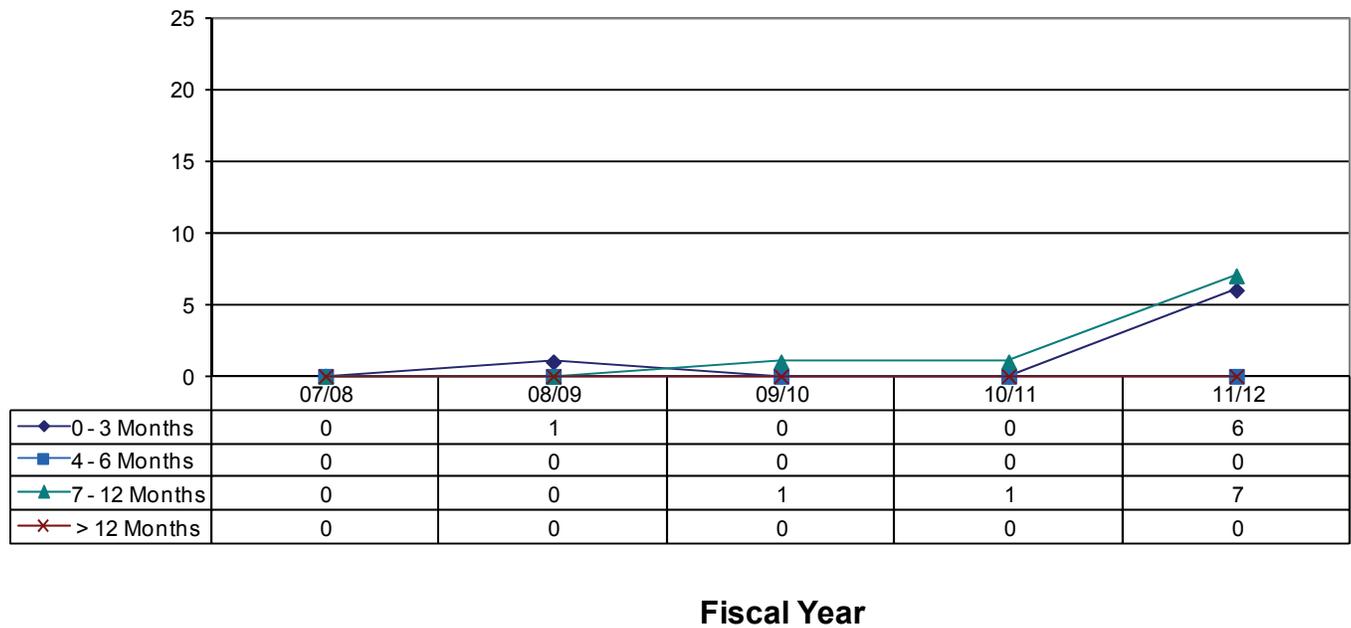


District 4

P1: % Scheduled VE Studies Completed
District 4

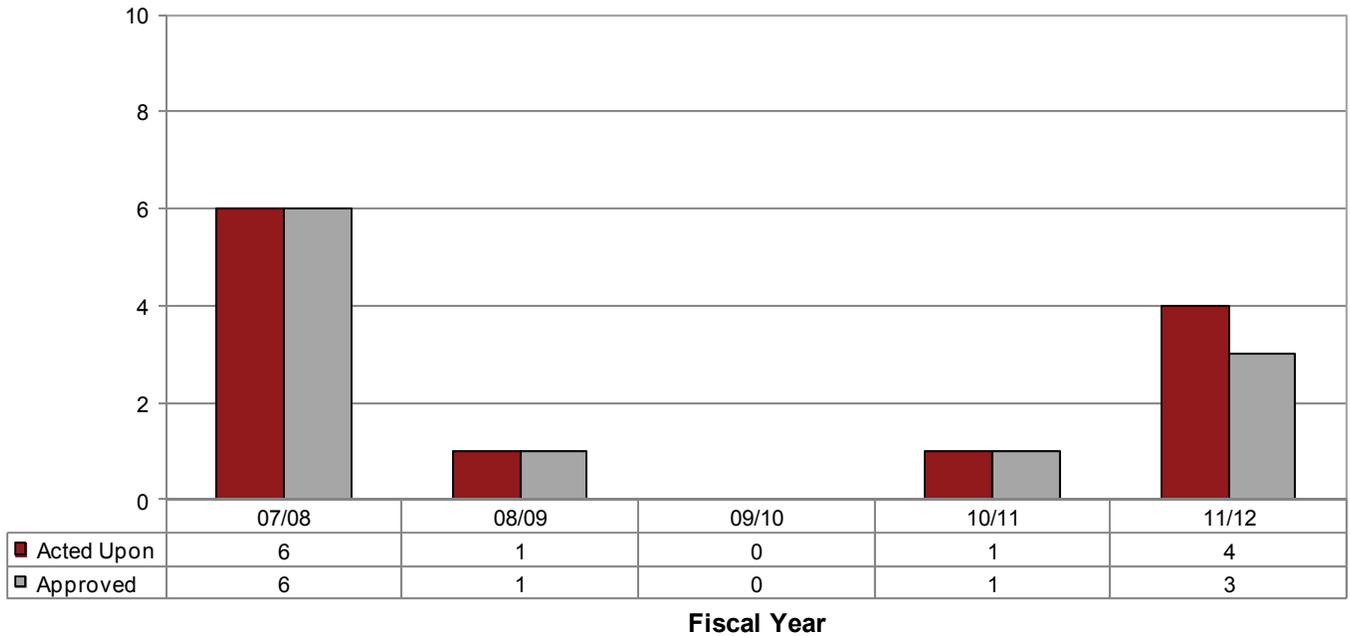


P4: Annual # Pending Recommendations
District 4

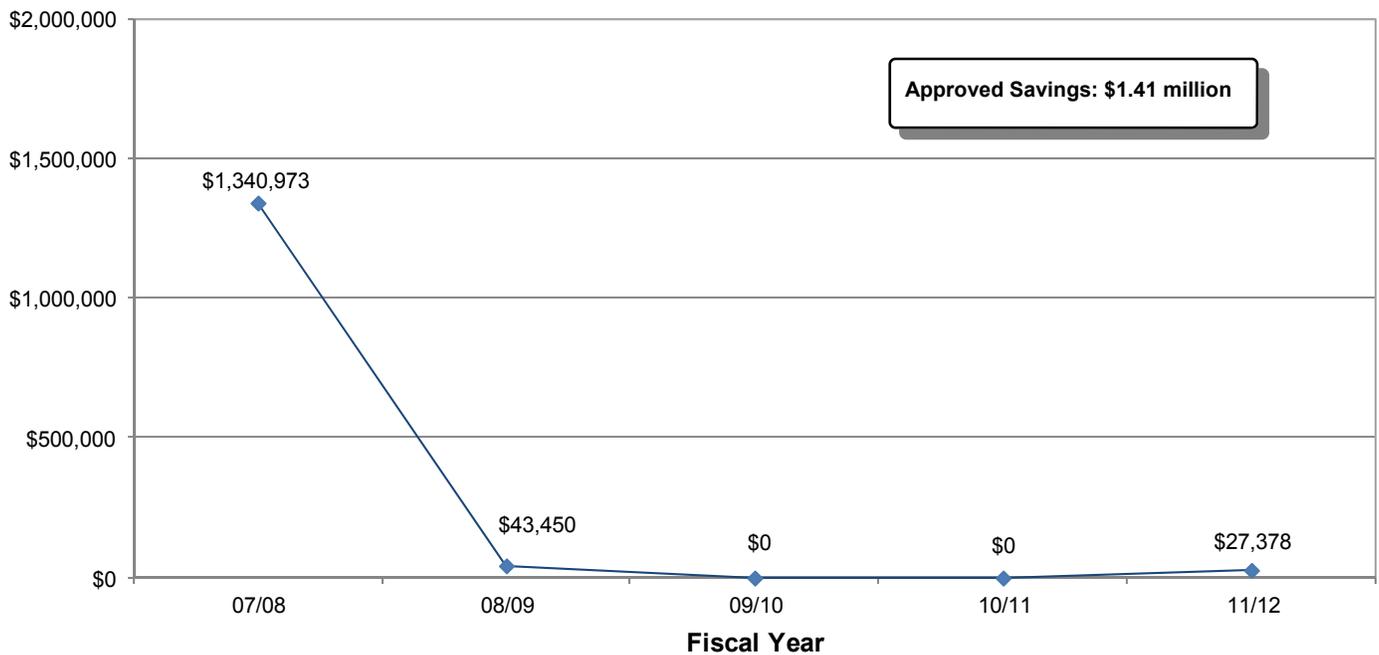


District 4

Q1: Annual VECP's Acted Upon

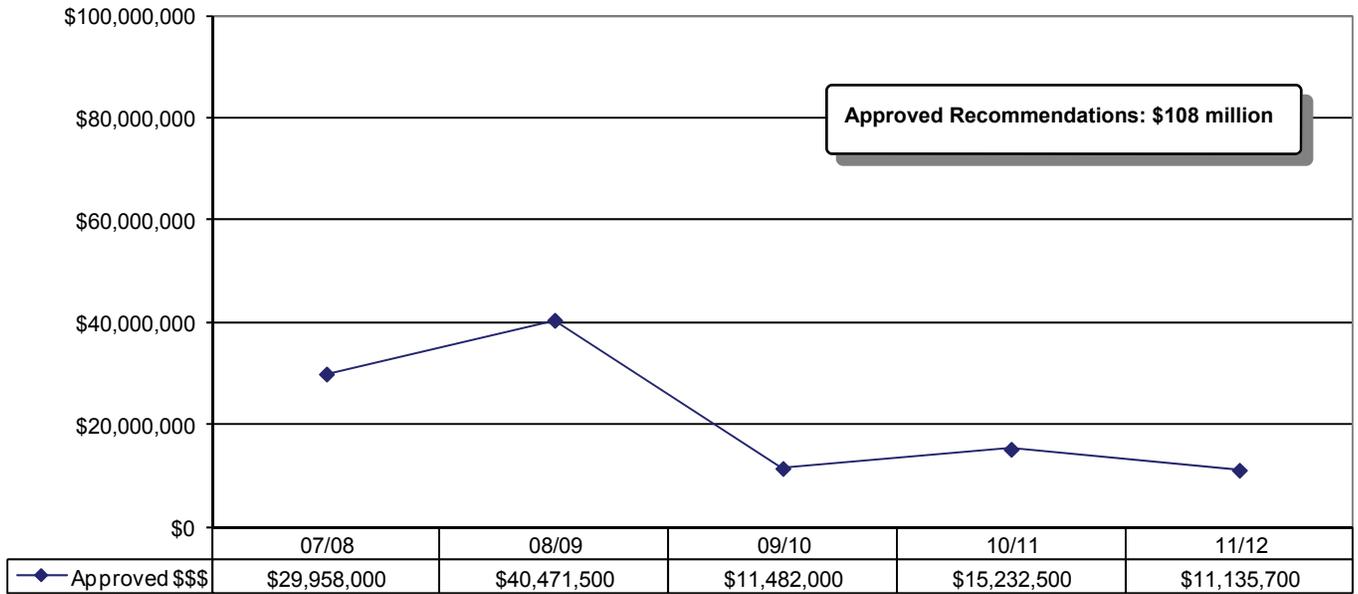


Q2: Annual Approved VECP Savings

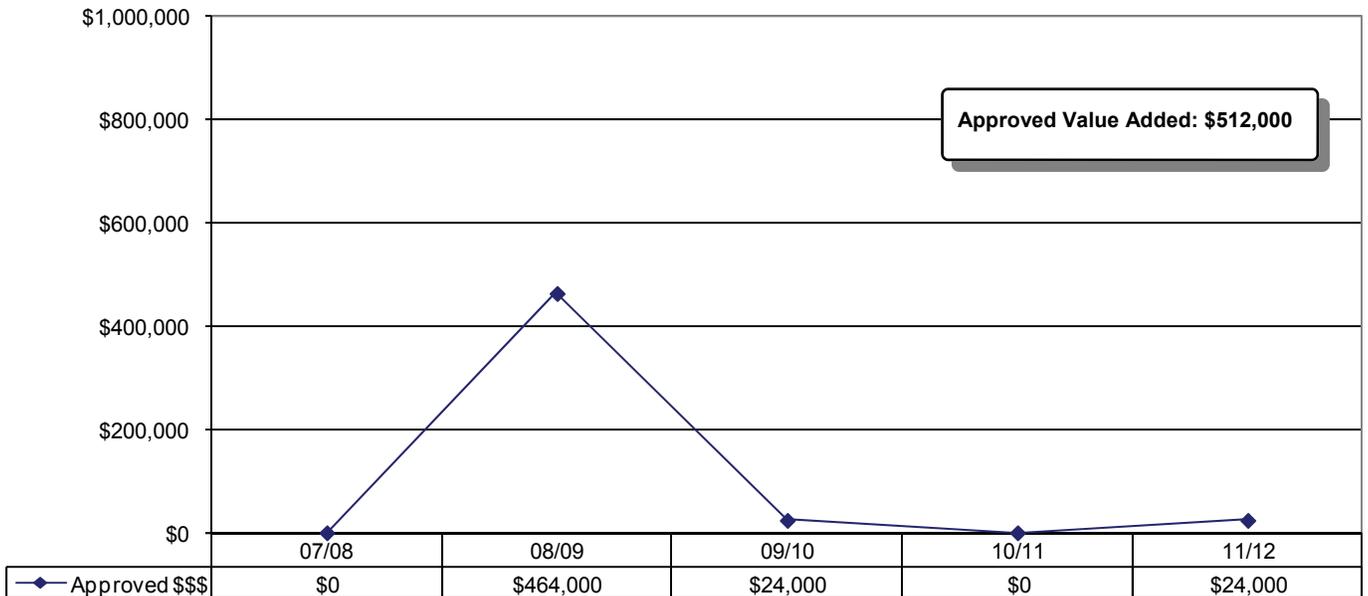


District 5

**Q1: Annual Approved Cost Avoidance/Savings
District 5**

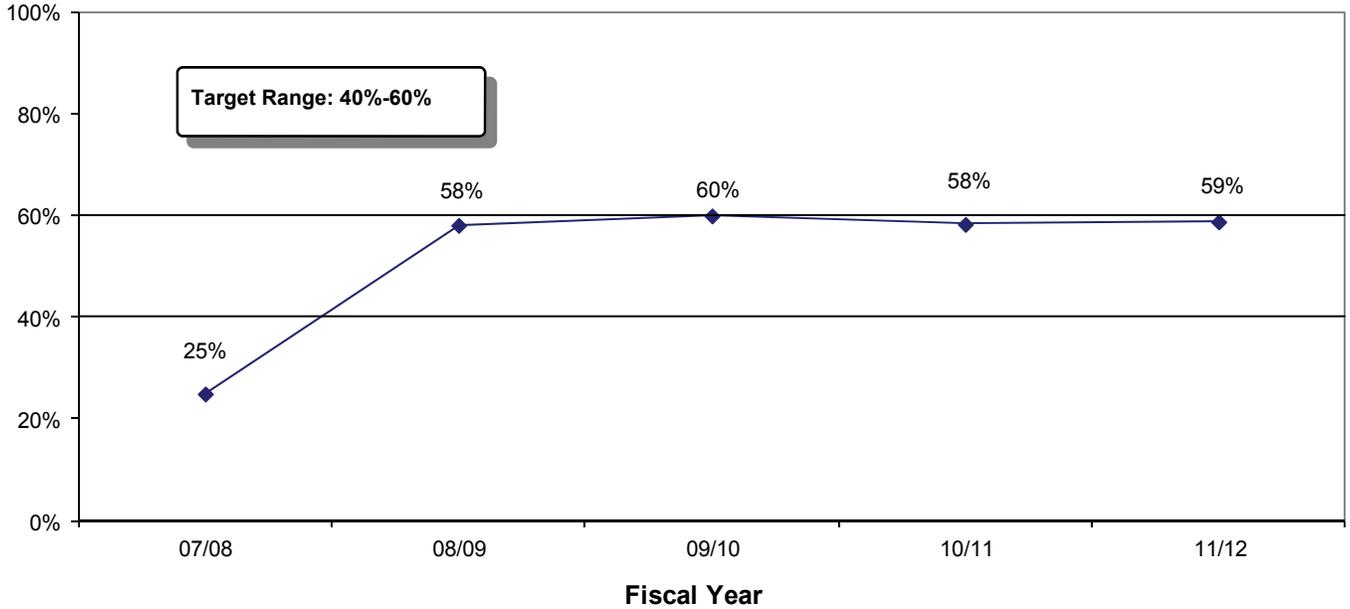


**Q2: Annual Approved Value Added Recommendations
District 5**

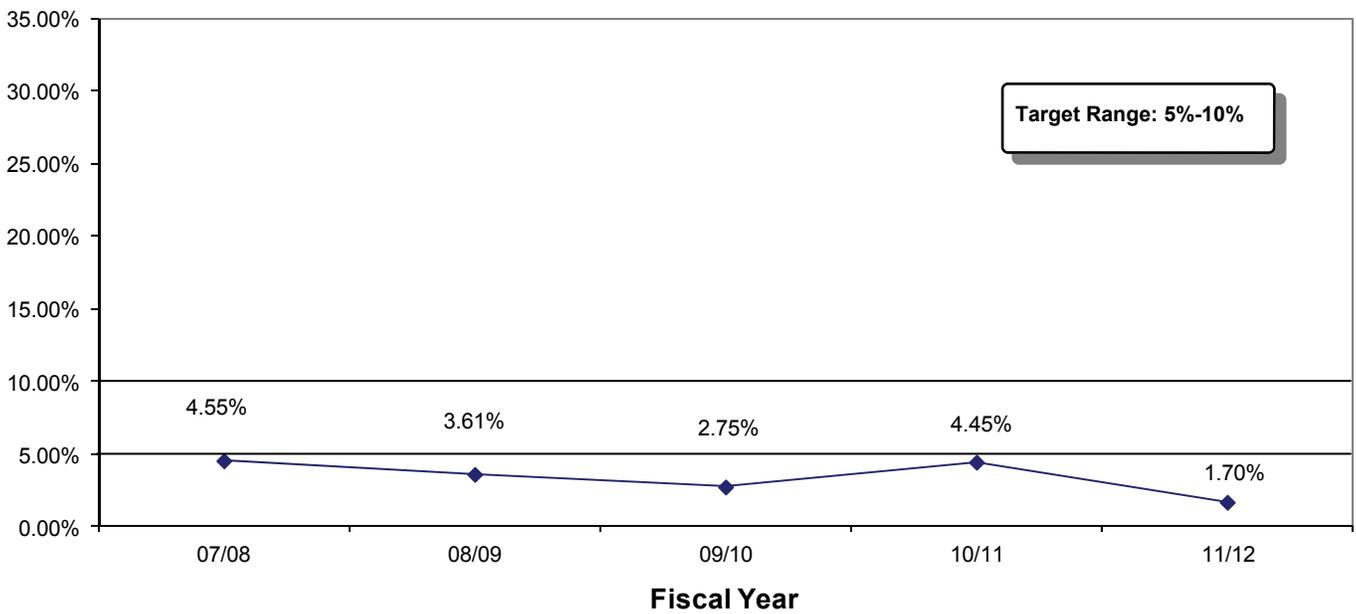


District 5

Q3: Annual Adoption Rate District 5

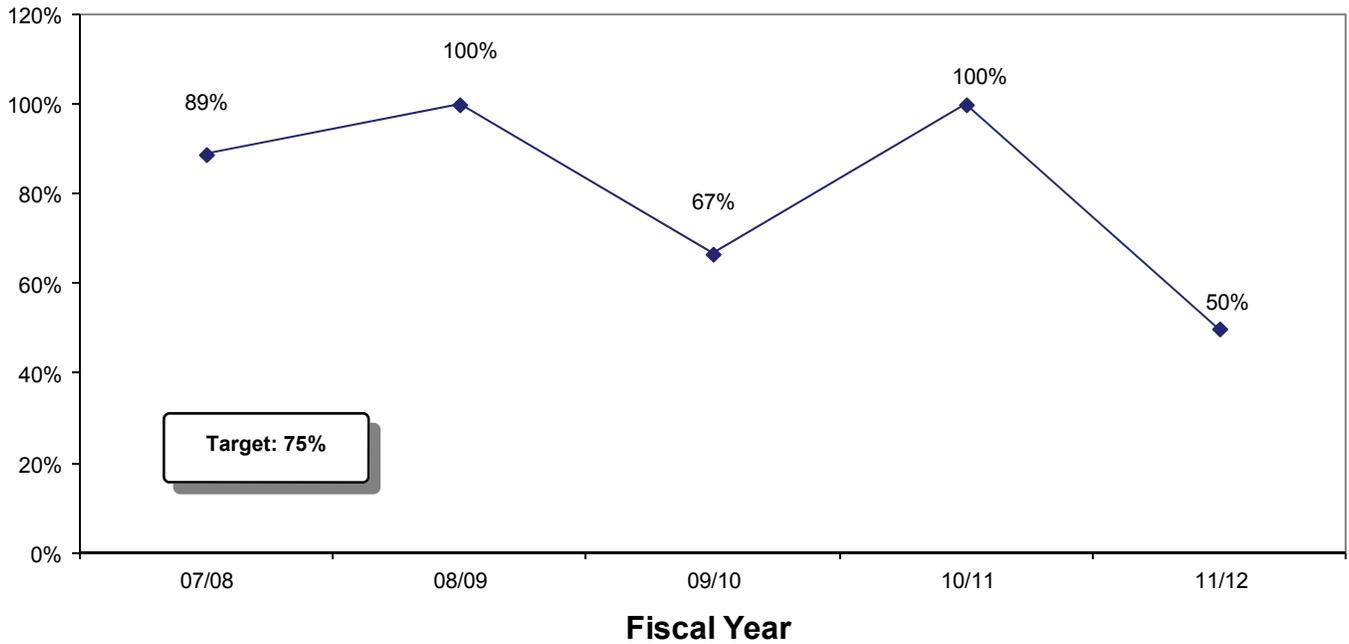


Q4: Annual Percent Project Saved District 5

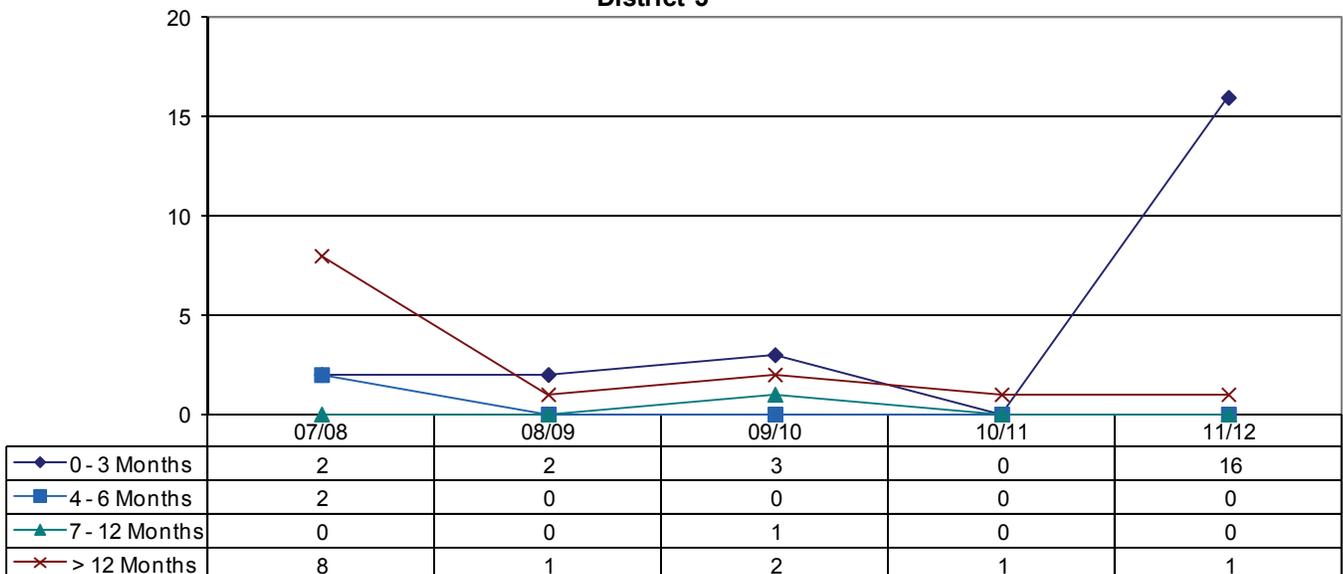


District 5

P1: % Scheduled VE Studies Completed
District 5

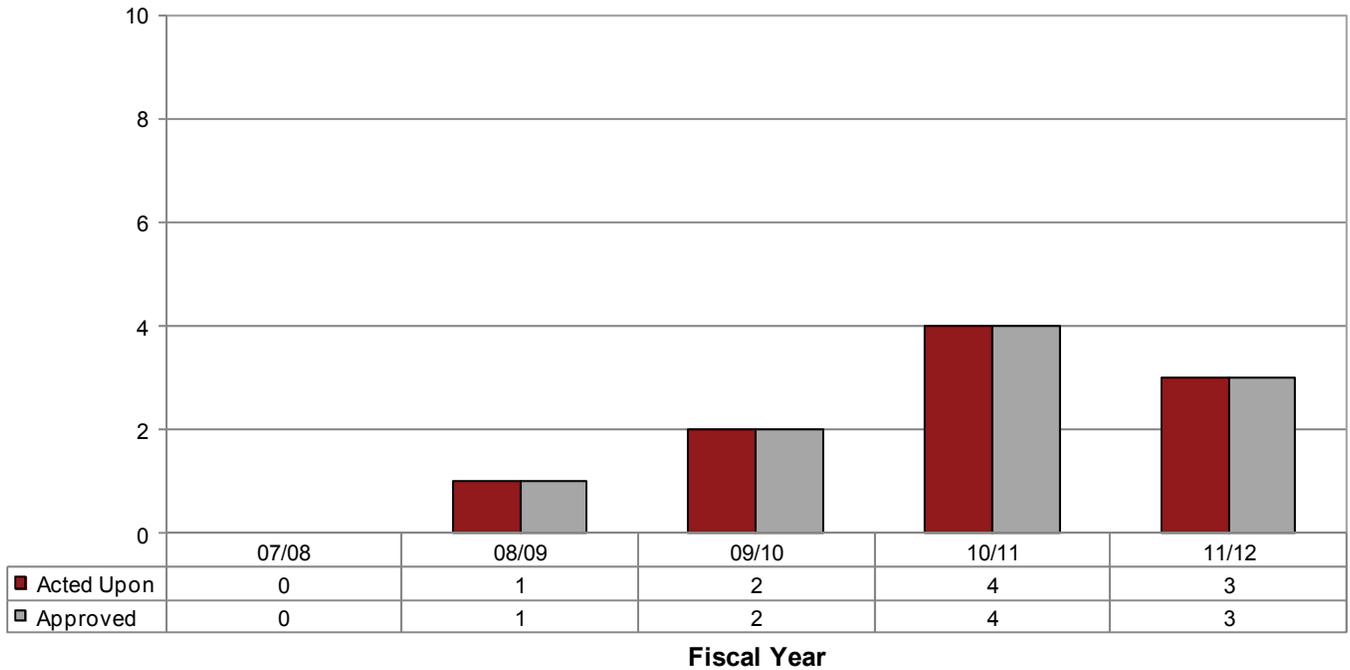


P4: Annual # Pending Recommendations
District 5

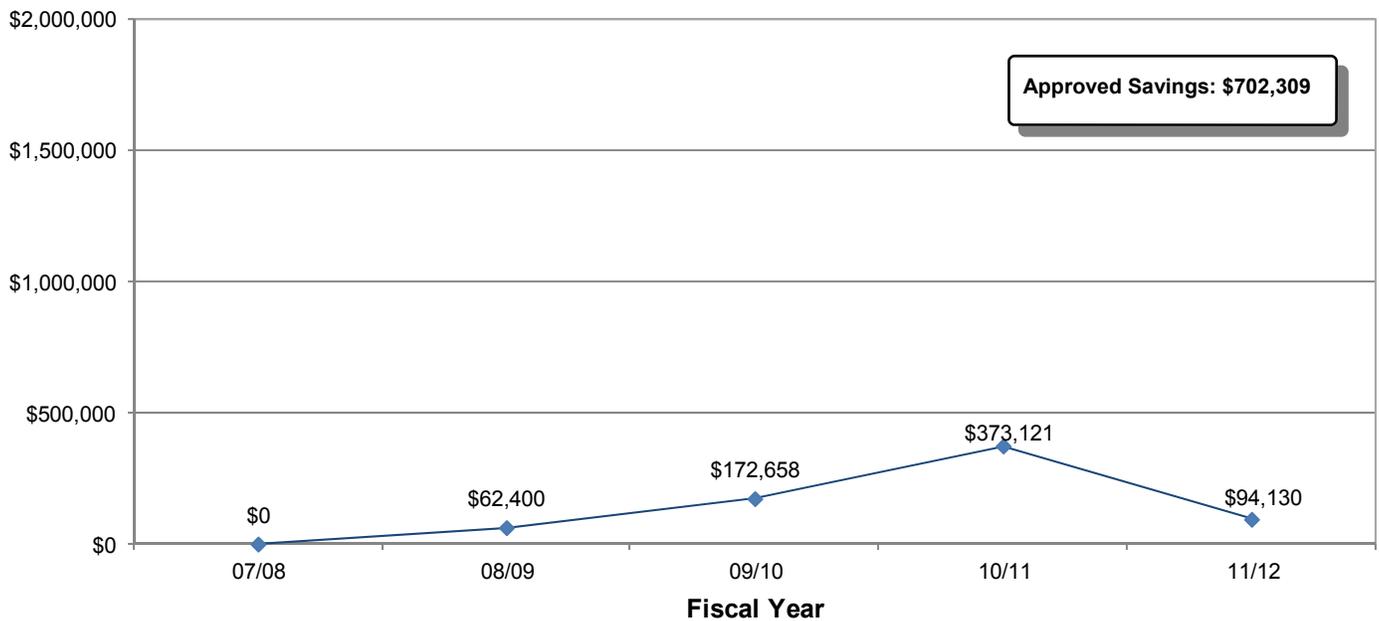


District 5

Q1: Annual VECP's Acted Upon

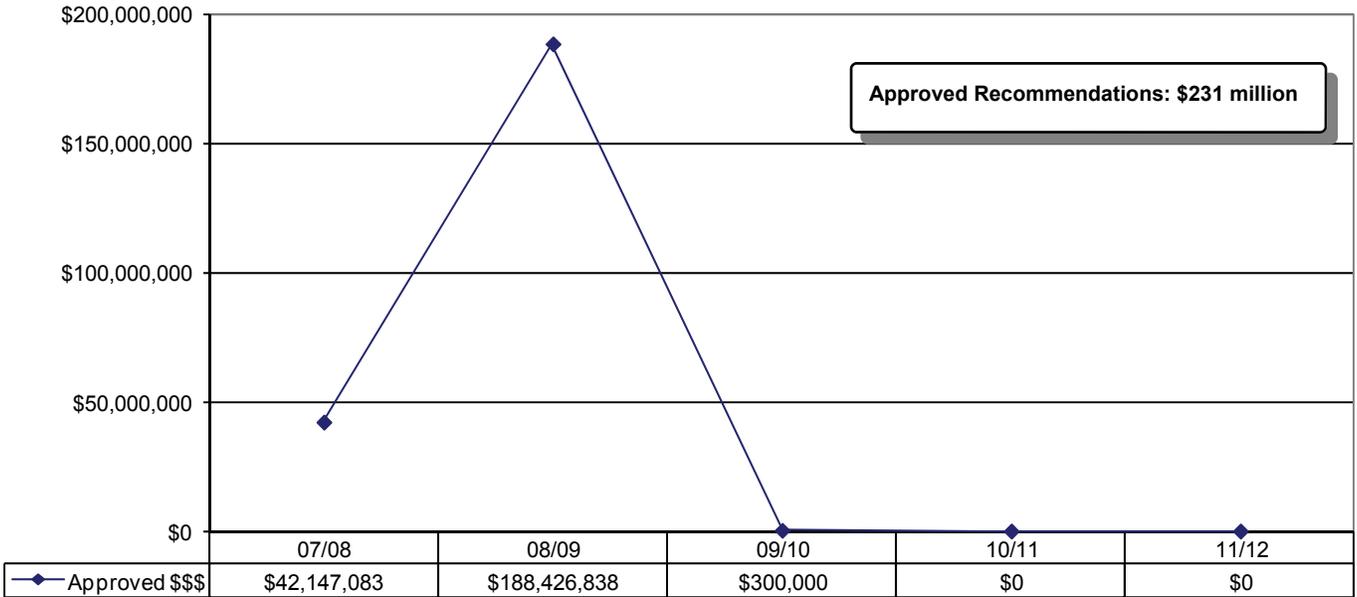


Q1: Annual VECP's Acted Upon

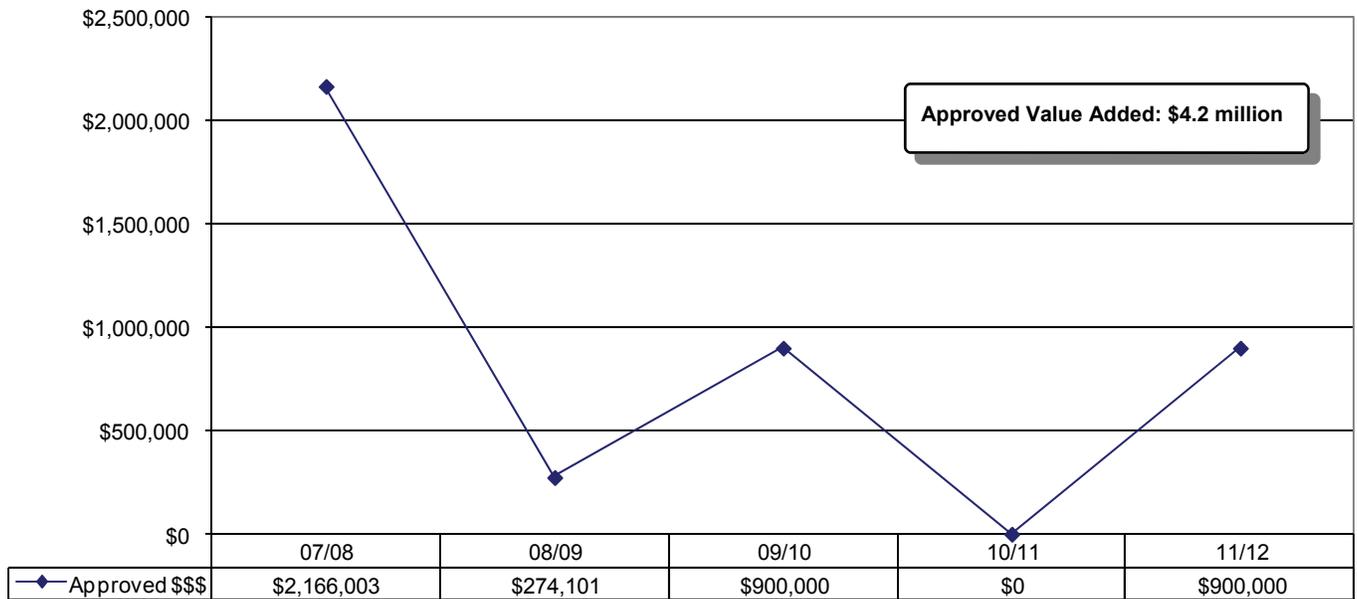


District 6

Q1: Annual Approved Cost Avoidance/Savings
District 6

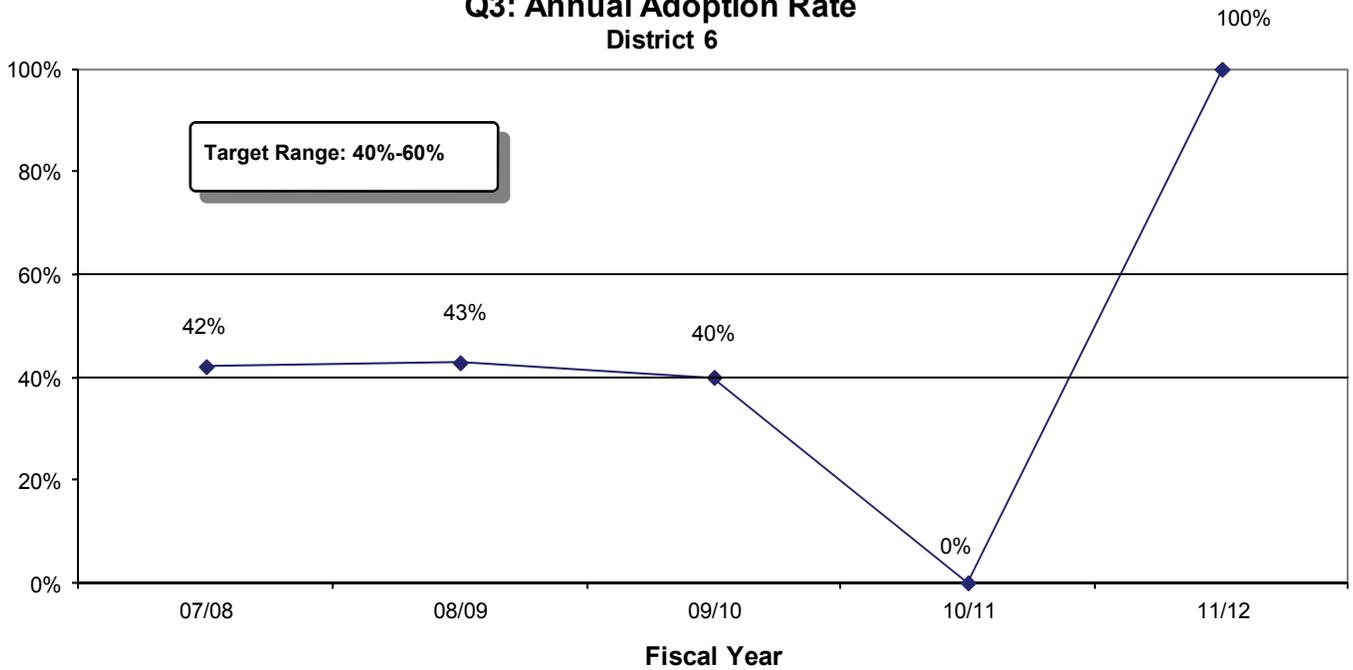


Q2: Annual Approved Value Added Recommendations
District 6

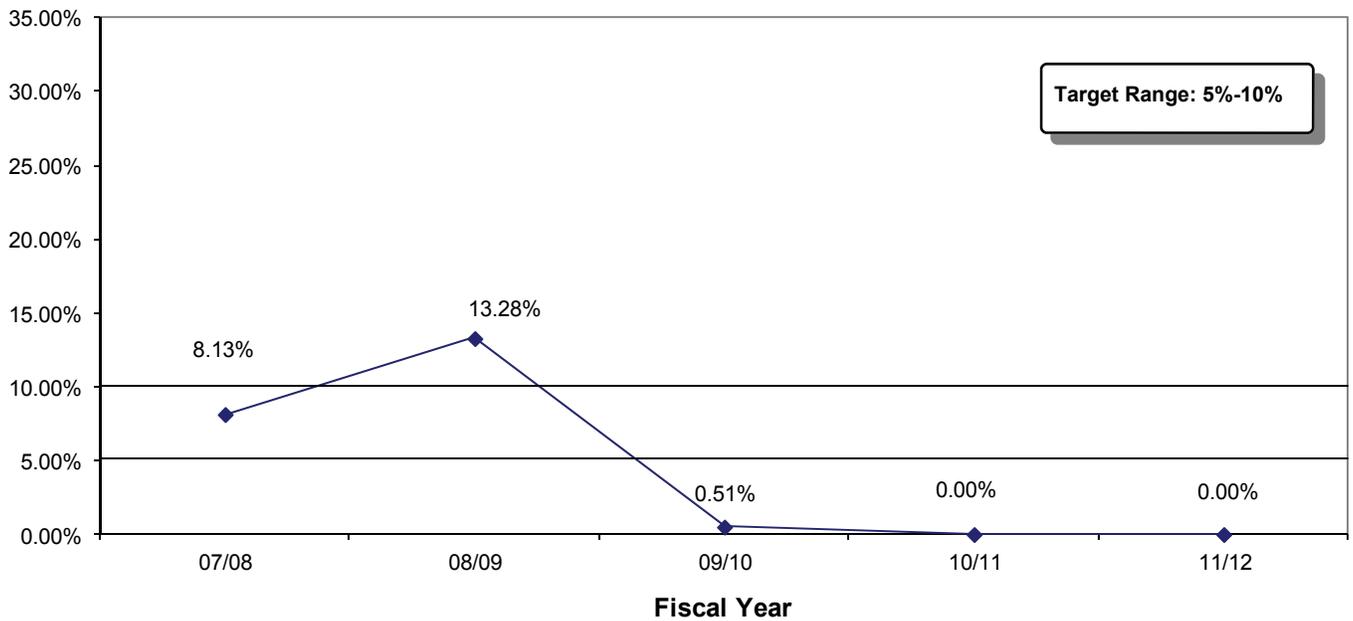


District 6

Q3: Annual Adoption Rate District 6

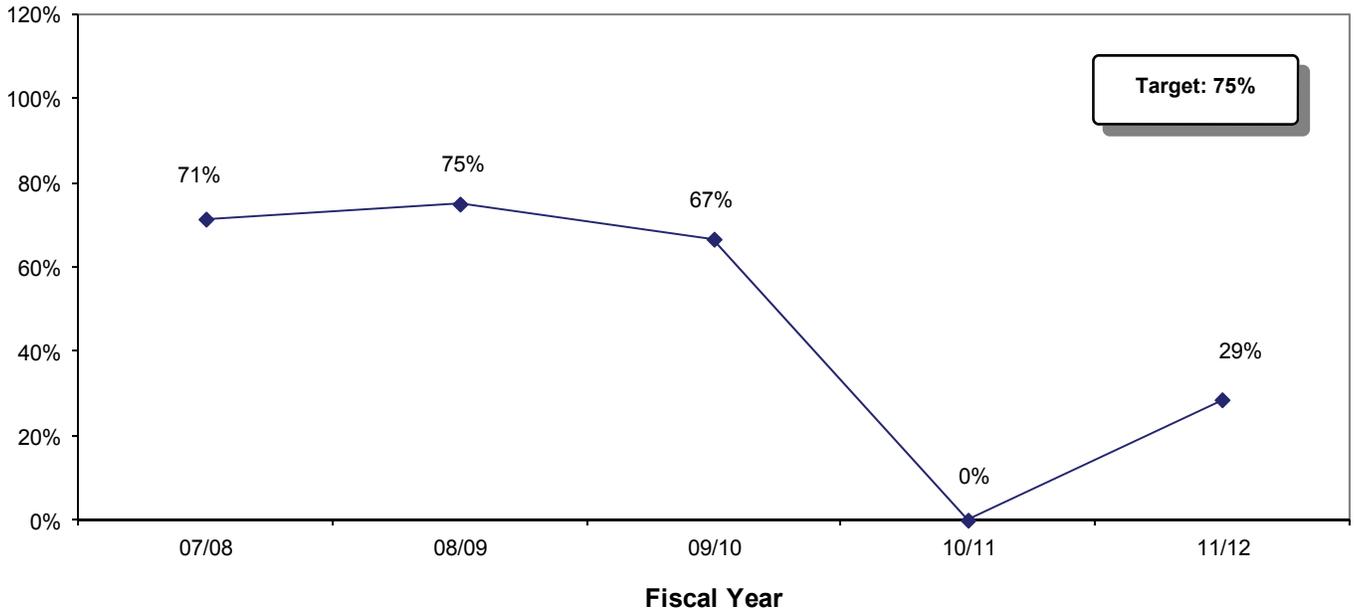


Q4: Annual Percent Project Saved District 6

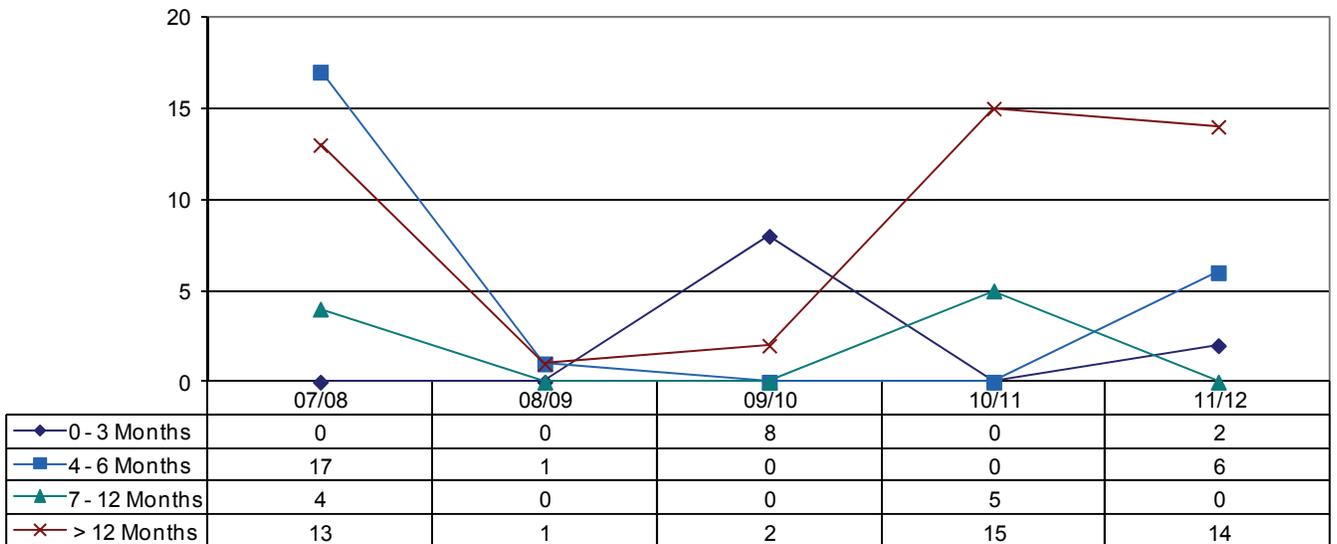


District 6

P1: % Scheduled VE Studies Completed
District 6

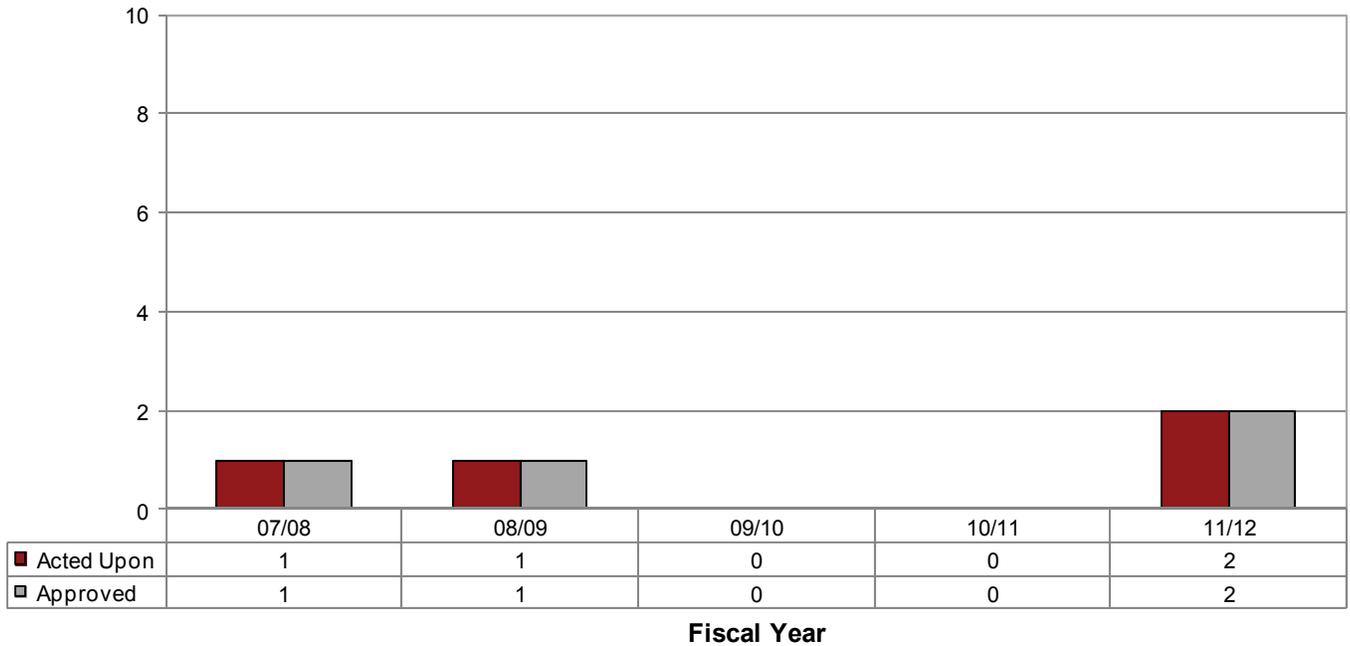


P4: Annual # Pending Recommendations
District 6

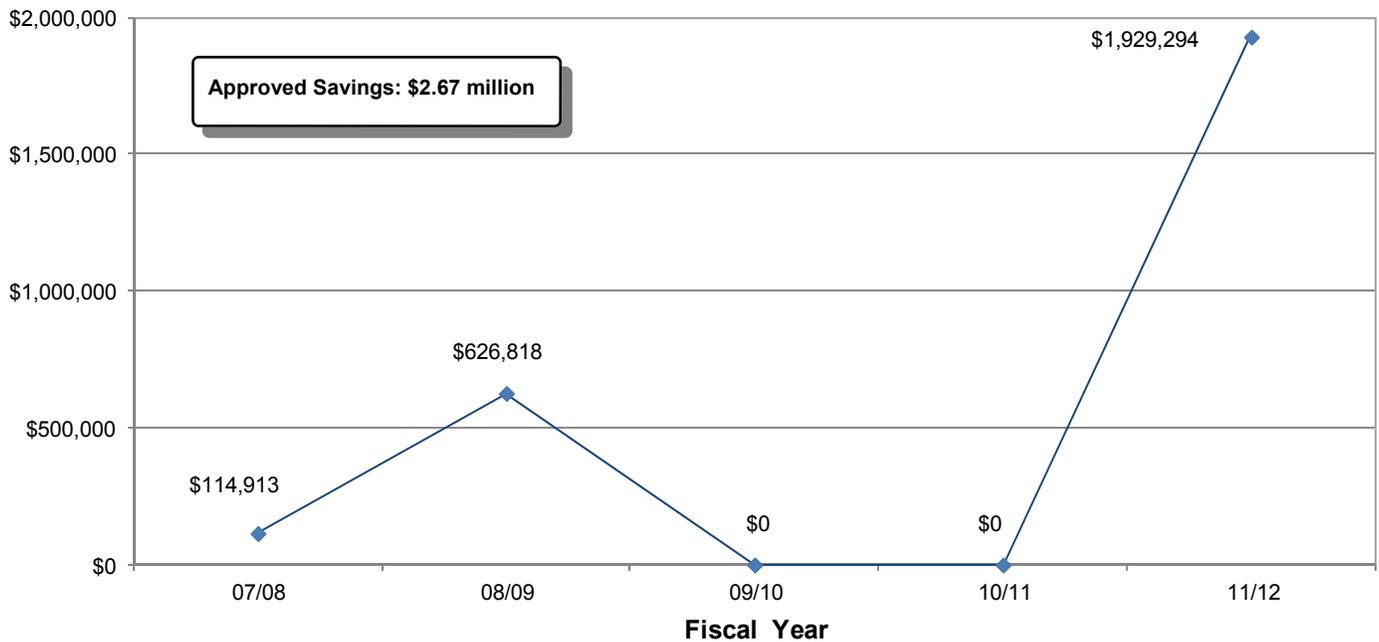


District 6

Q1: Annual VECP's Acted Upon

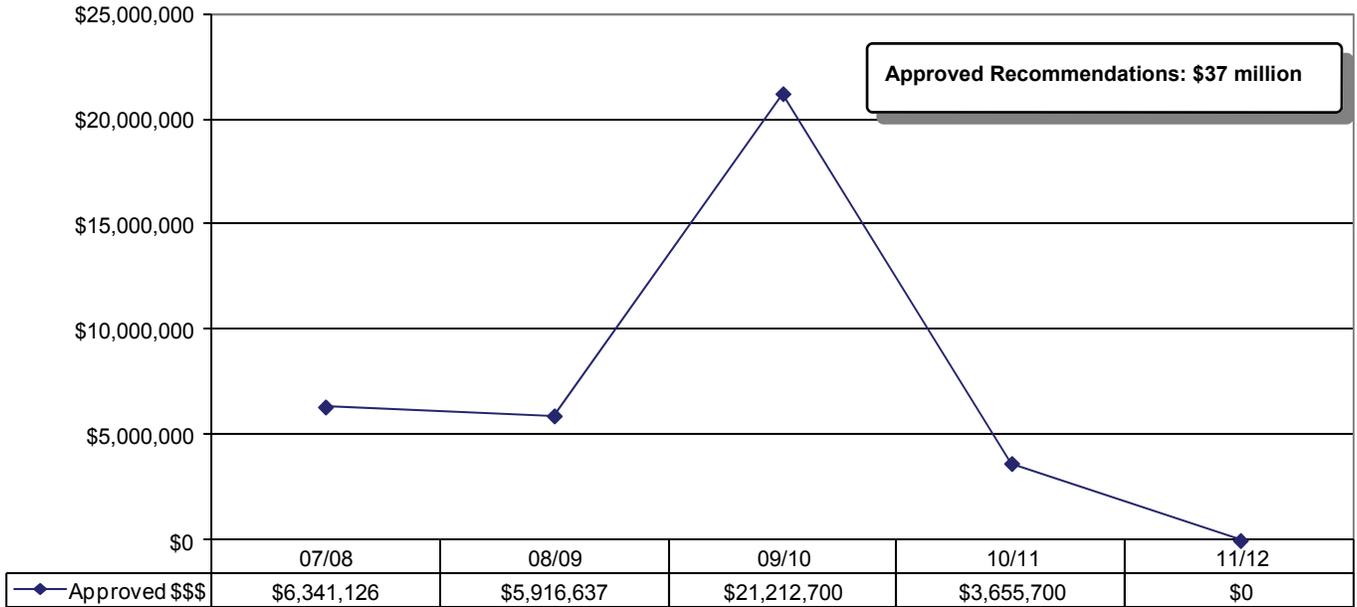


Q2: Annual Approved VECP Savings

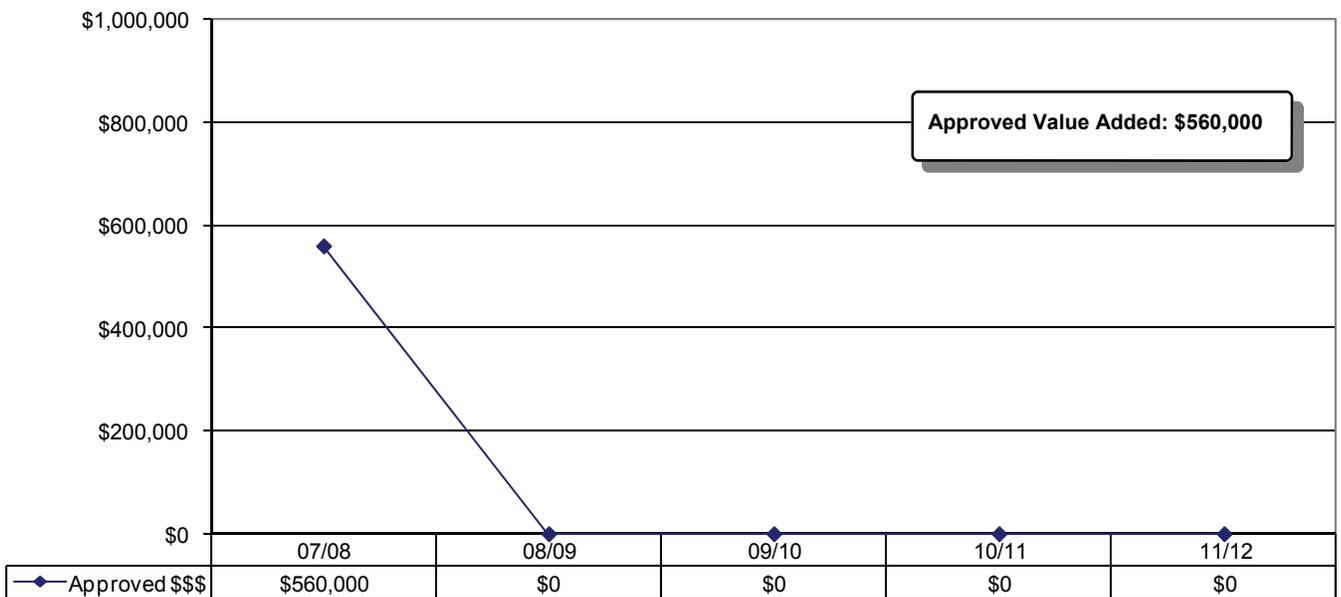


District 7

**Q1: Annual Approved Cost Avoidance/Savings
District 7**

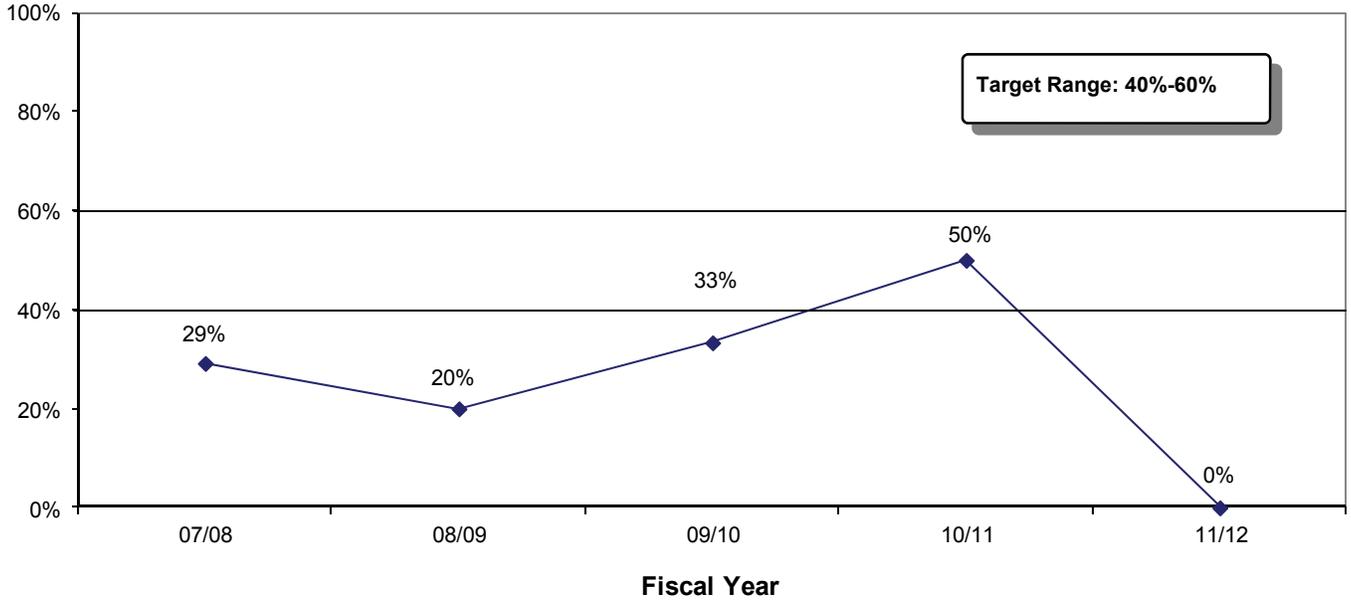


**Q2: Annual Approved Value Added Recommendations
District 7**

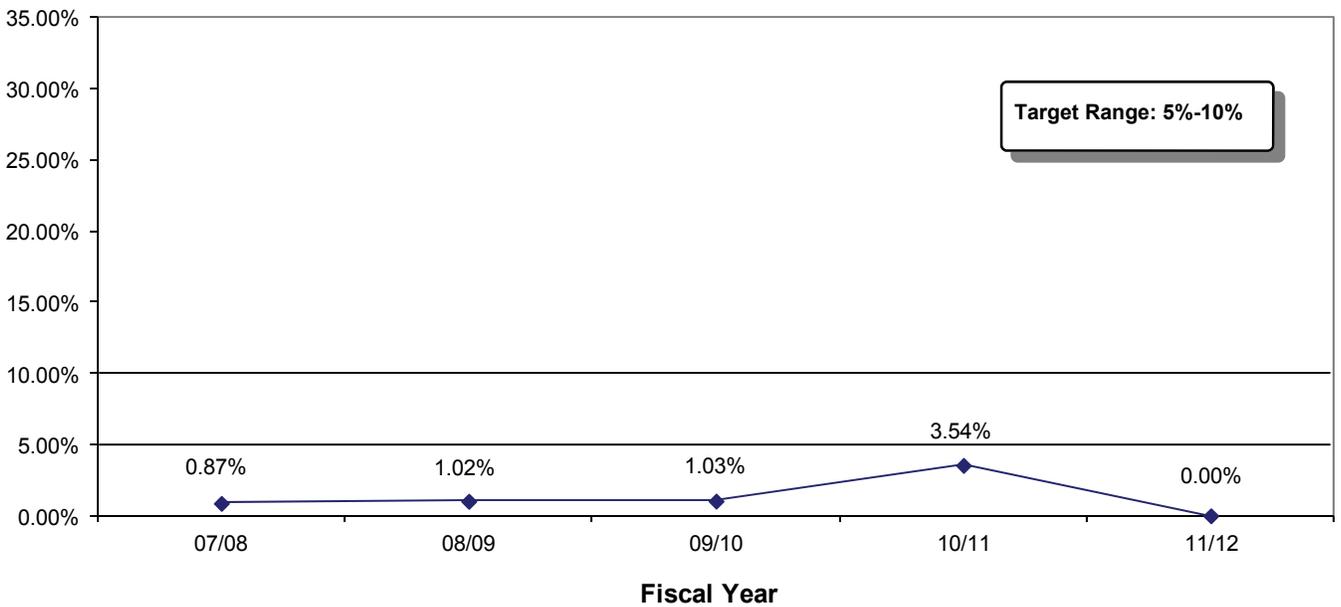


District 7

Q3: Annual Adoption Rate District 7

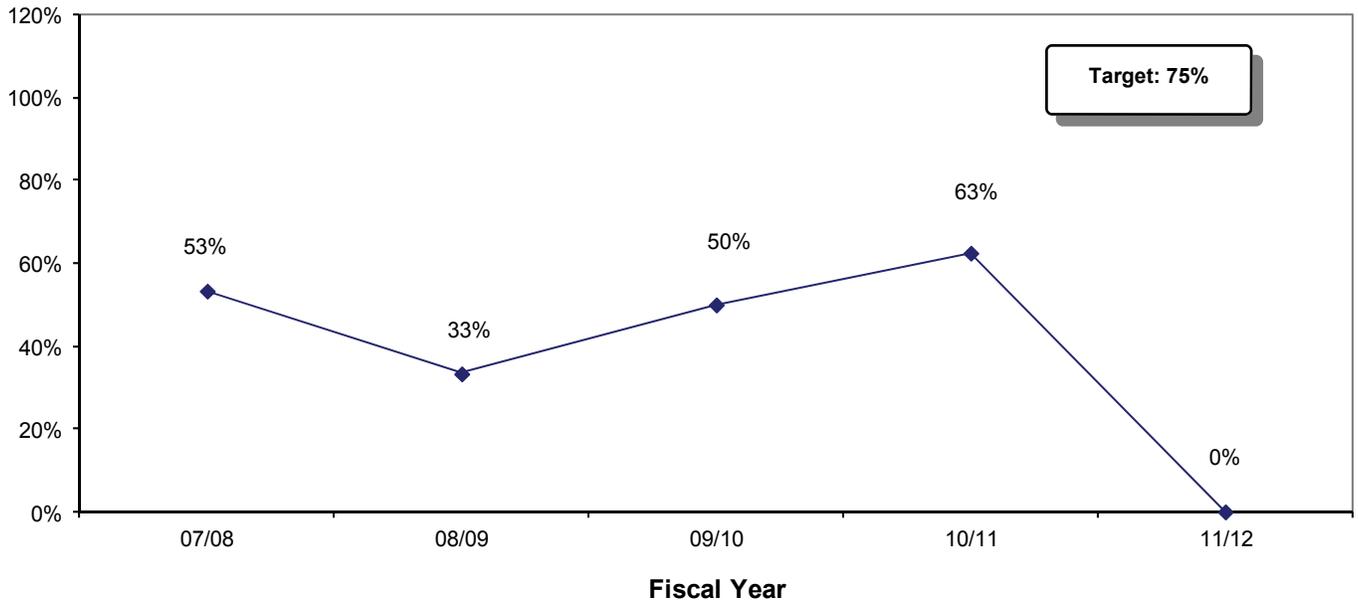


Q4: Annual Percent Project Saved District 7

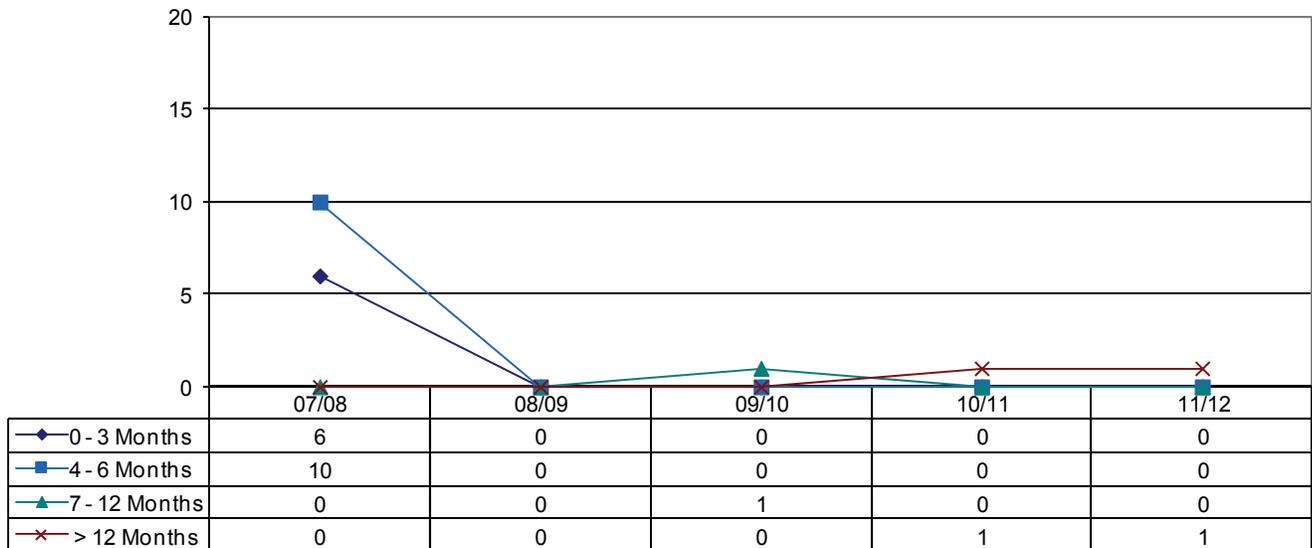


District 7

P1: %Scheduled VE Studies Completed
District 7

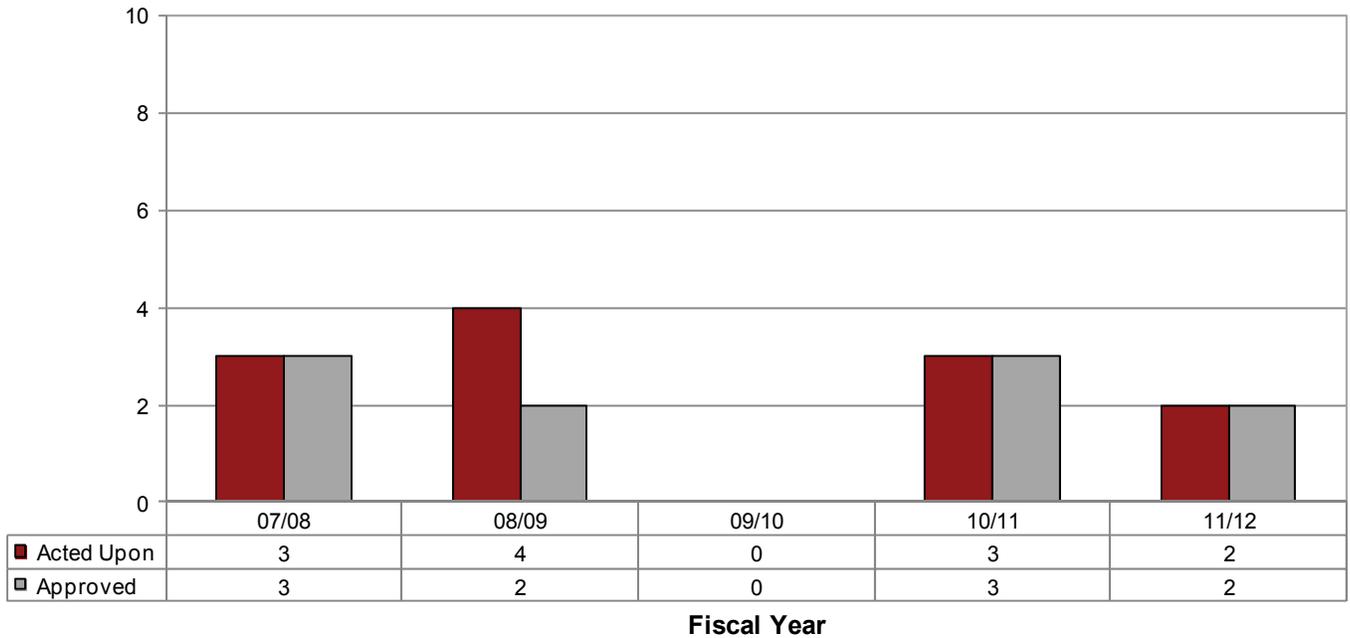


P4: Annual # Pending Recommendations
District 7

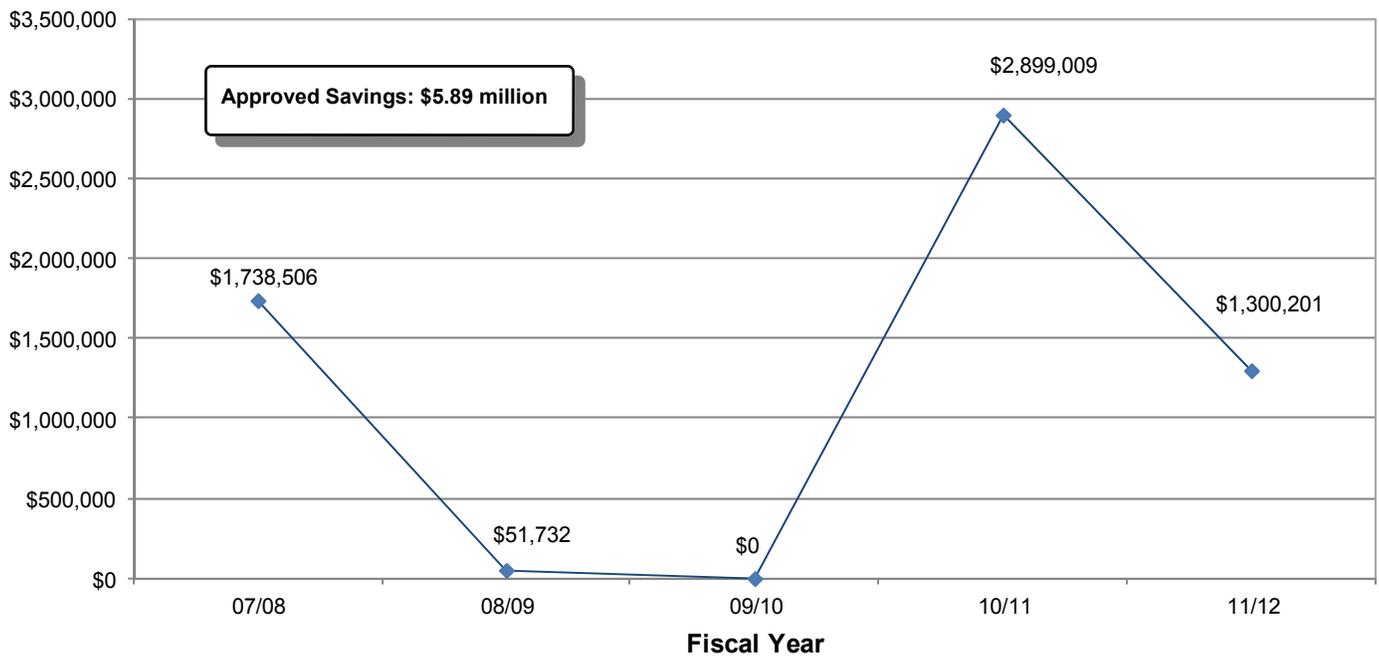


District 7

Q1: Annual VECP's Acted Upon

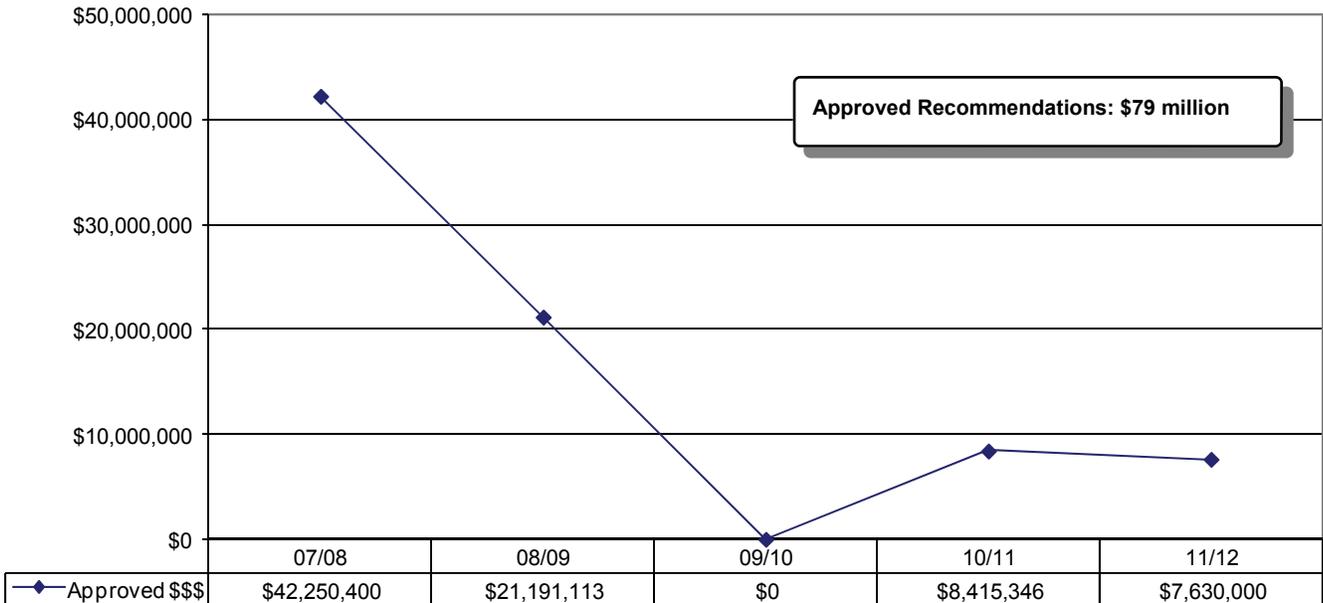


Q1: Annual VECP's Acted Upon

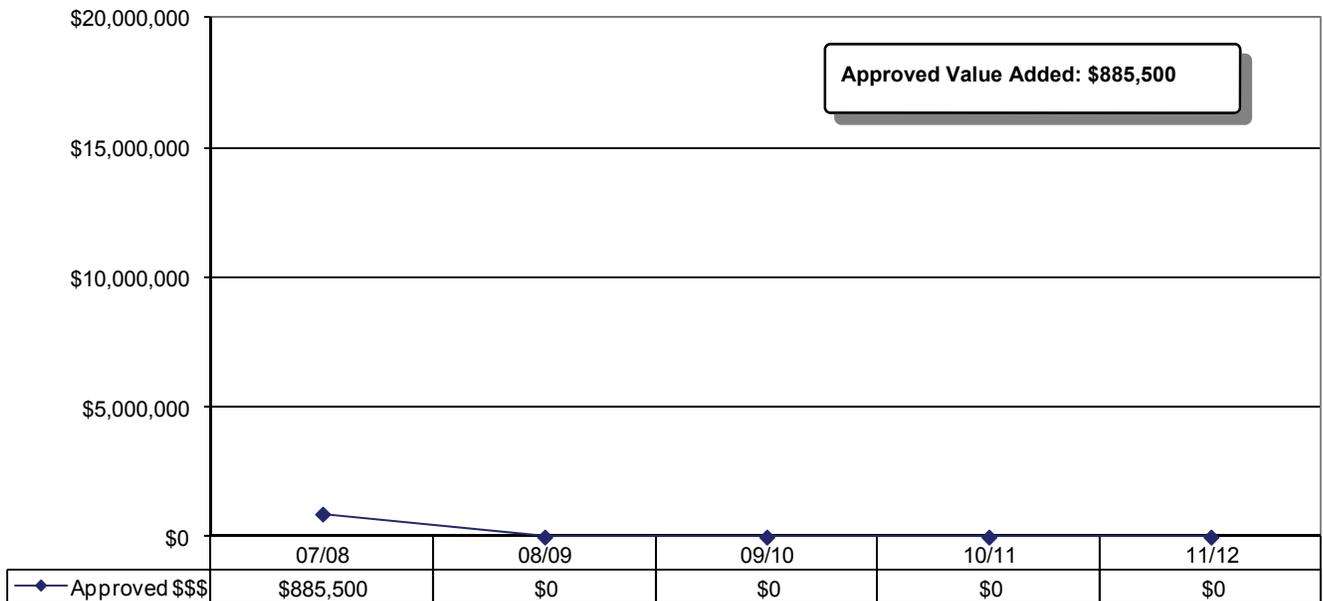


Turnpike Enterprise

**Q1: Annual Approved Cost Avoidance/Savings
Turnpike Enterprise**

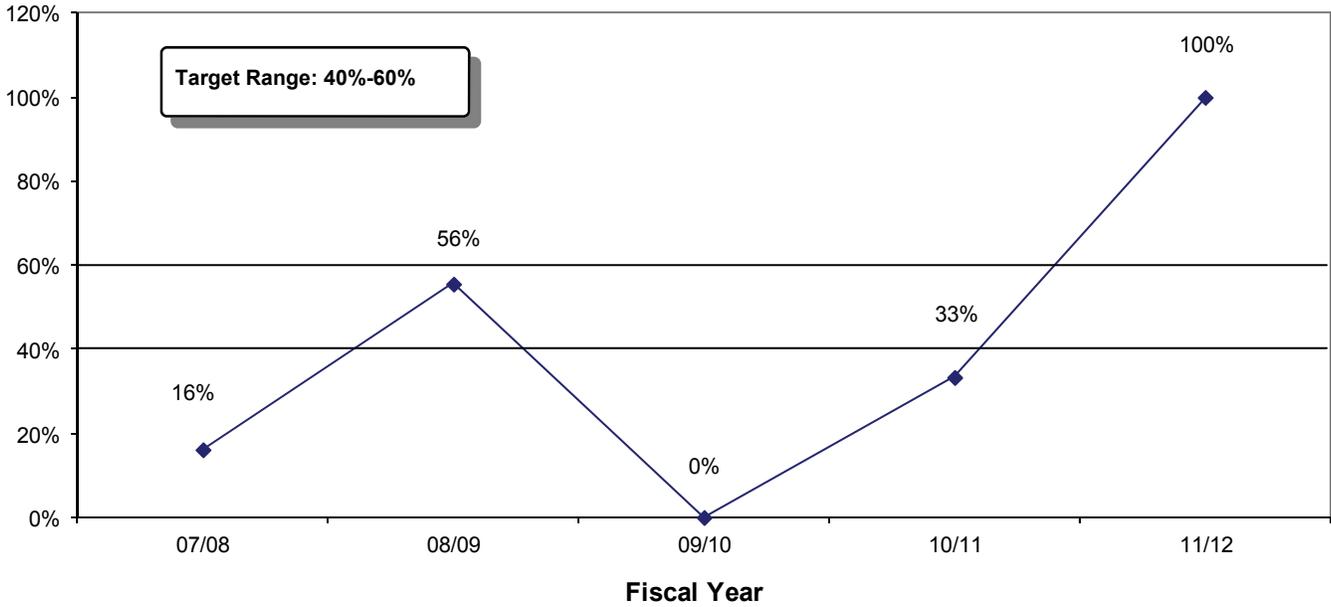


**Q2: Annual Approved Value Added Recommendations
Turnpike Enterprise**

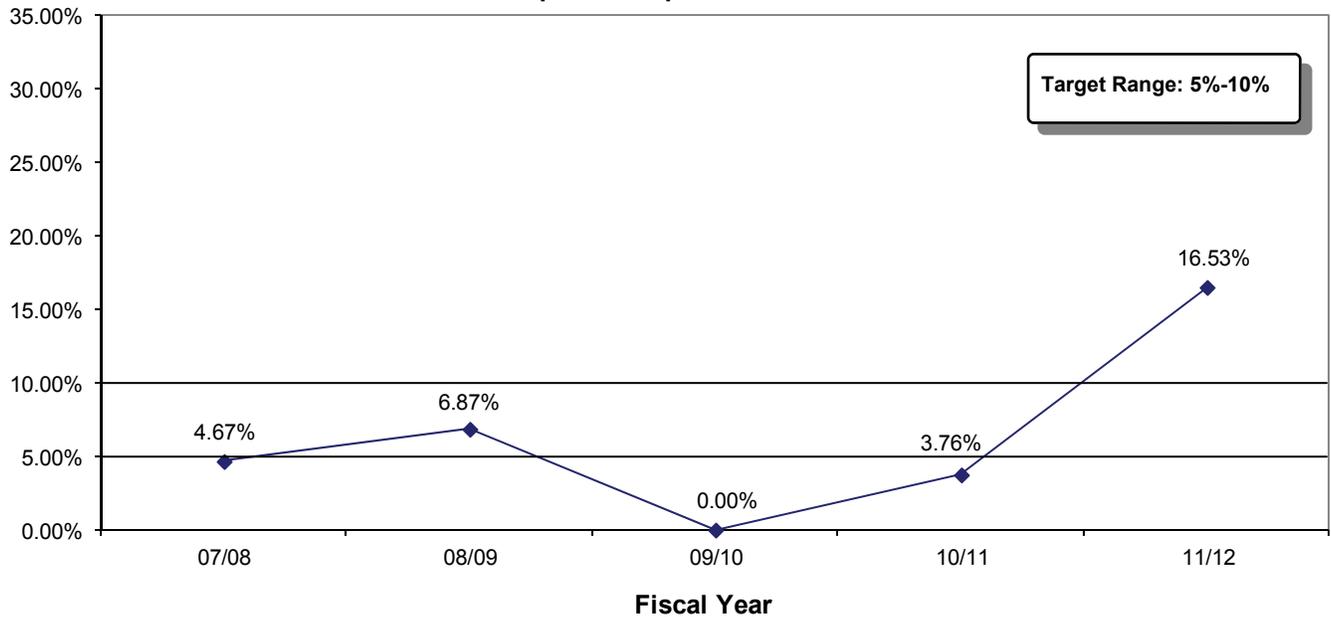


Turnpike

Q3: Annual Adoption Rate Turnpike Enterprise

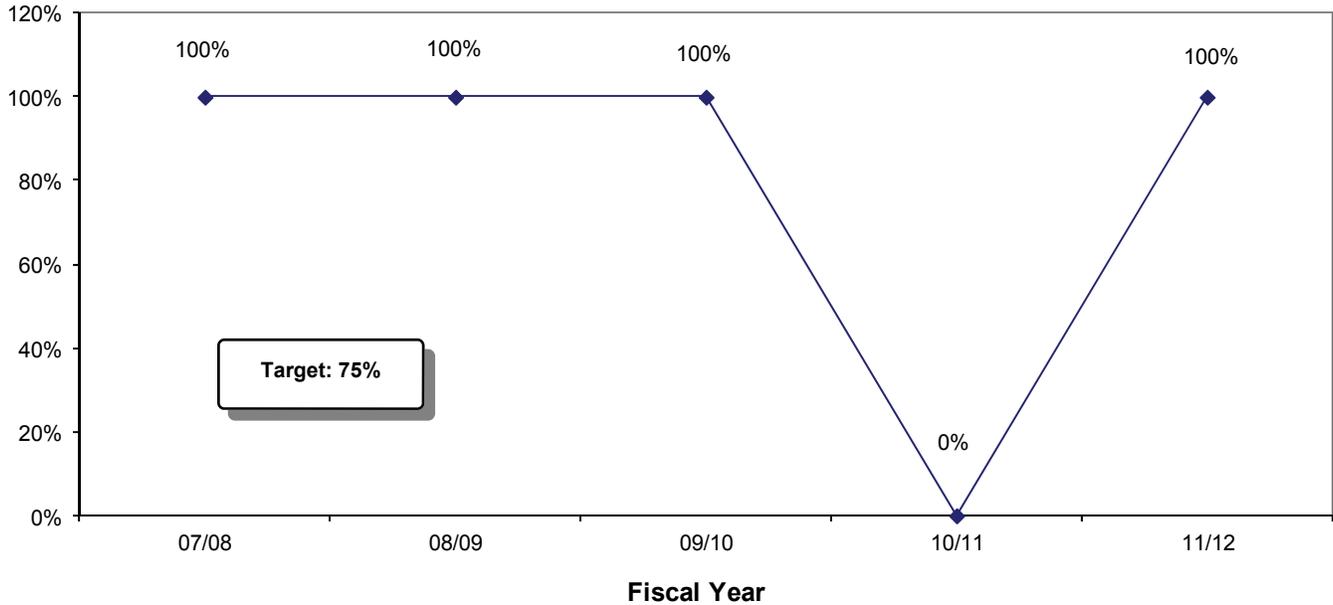


Q4: Annual Percent Project Saved Turnpike Enterprise

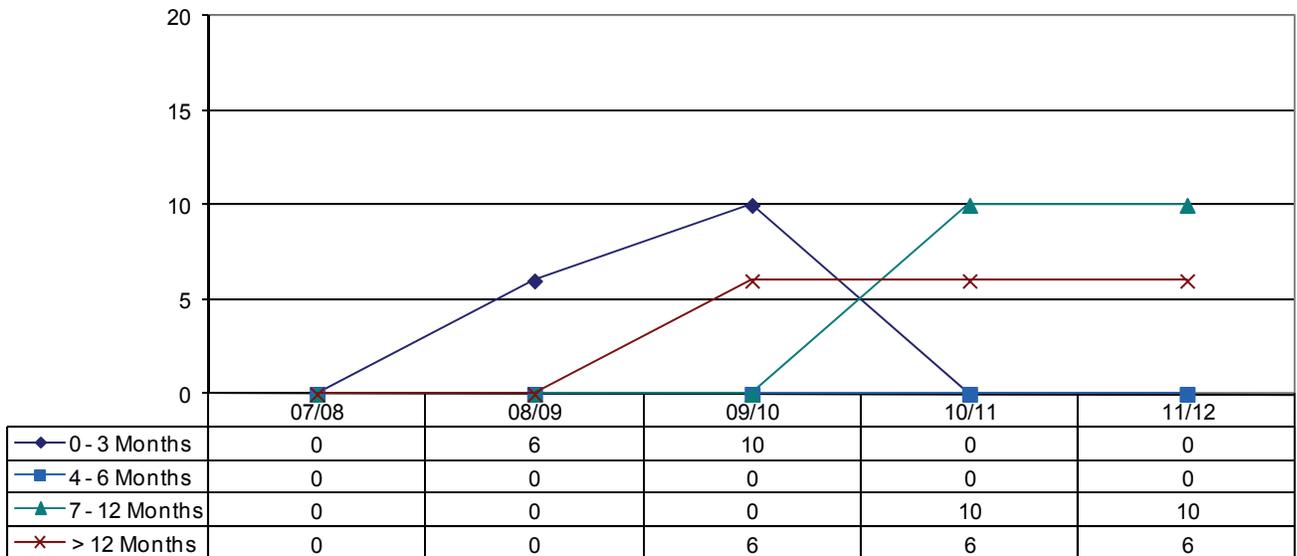


Turnpike

P1: % Scheduled VE Studies Completed
Turnpike Enterprise

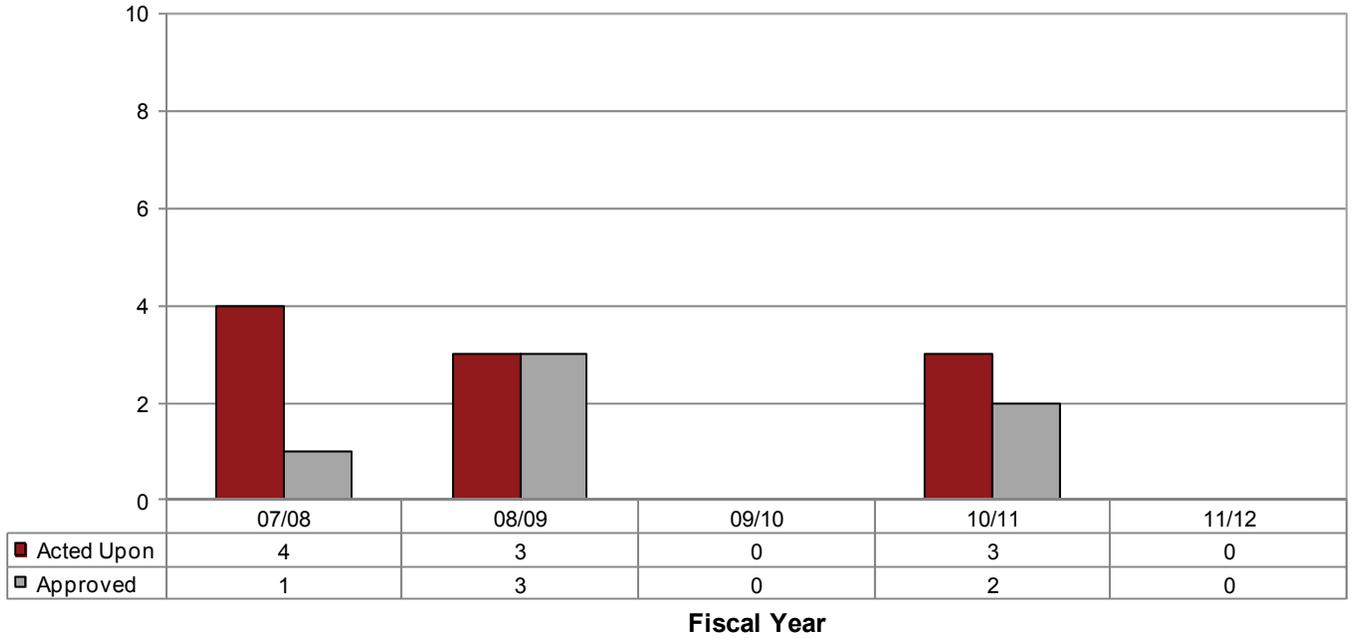


P4: Annual # Pending Recommendations
Turnpike Enterprise

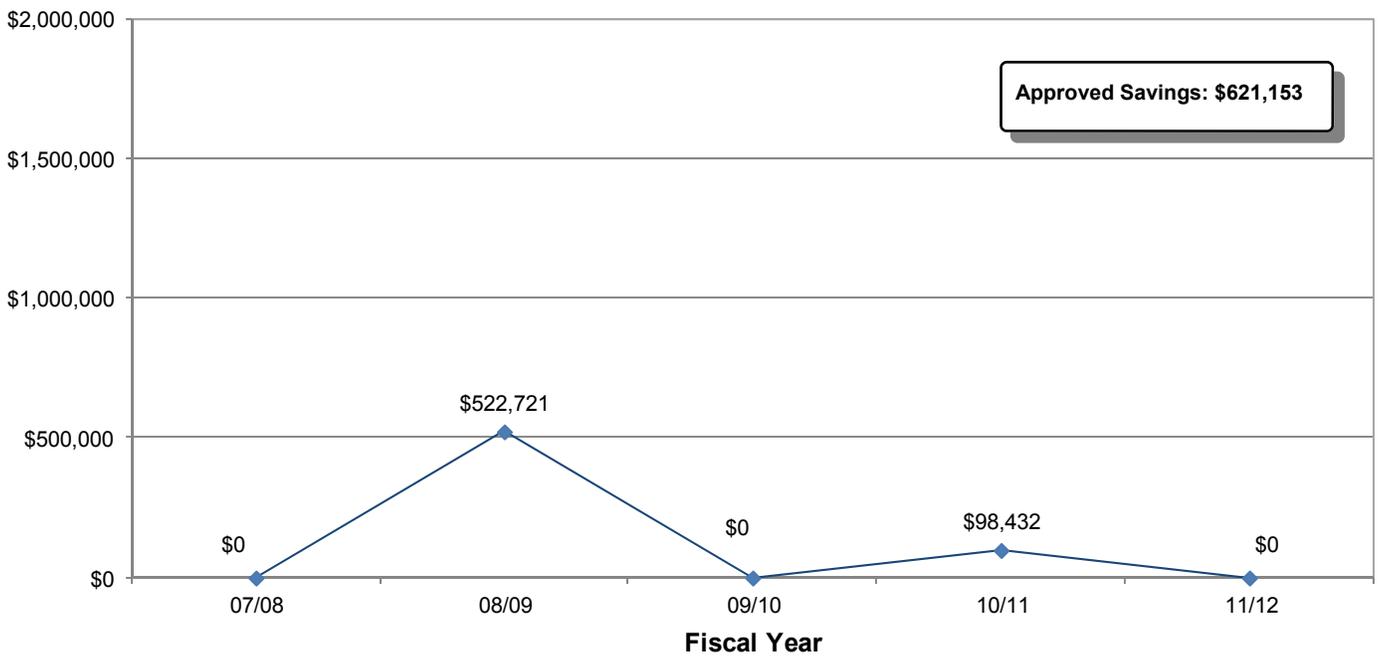


Turnpike

Q1: Annual VECP's Acted Upon



Q2: Annual Approved VECP Savings



Appendix B

Process Control Systems

Process Control System

Process Control System		Process Name: Value Engineering Program	Product/Service: Perform Value Engineering analysis on selected projects and document findings	Primary Customers: Management Regulators: FHWA	Customers Valid Requirements(s): Effective use of resources to produce a quality transportation system.	Regulator's Valid Requirement(s): Projects with total costs of \$25 million or more have a VE study performed during the design process.		
Inputs: Projects Supplier(s): Work Program	Flow Chart			Process and Quality Measures (QAOQ)		Checking / Measurement Monitoring		Miscellaneous Information
Dept/ Person	DISTRICT VALUE ENGINEER	VALUE ENGINEERING TEAM	STATE VALUE ENGINEER	Checking Item	Timeframe (Frequency)	Responsibility	QAR	
Step/ Time				What is to be checked?	When to check?	Who will check?	Date of Last Review	
PROJECT SELECTION				VER & Work Plan	Quarterly	SVE	D1: 11/2006 C	Federal Regulation 23 CFR 627
TEAM SELECTION				Work Program	Annual	SVE	D2: 12/2006 C	VE Procedure 625-030-002 1989 AASHTO Guidelines for VE
STUDY				VER	Quarterly	SVE	D3: 12/2006 C	NOHRP Synthesis 352 - Value Engineering Applications in Transportation
RESOLUTION				VER	Quarterly	SVE	D4: 5/2007 C	
REPORTING				Surveys	Annual	DVE	D5: 1/2007 C	
				VER	Quarterly	SVE	D6: 5/2007 C	
				VER	Quarterly	SVE	D7: 1/2006 C	
				VER	Annual	SVE	D8: 1/2007 C	
				VER	Annual	DVE	TPK: 1/2007 C	
								CODES: C-Compliance NC-Noncompliant BP Best Practice

Approved: _____ Date: _____ Process Owner: State Value Engineer Rev#: 1.5 Rev Date: 10/2007

Process Control System

Process Name: Value Engineering Project Selection	Product/Service: Develop a Value Engineering Work Plan by July 1 of each fiscal year.	Primary Customers: District Management, State Value Engineer. Partners: FHWA	Regulator's Valid Requirement(s): All projects with the NHS system with estimated total costs > \$25 million have a VE analysis.	Miscellaneous Information
Inputs: Projects Supplier(s): Work Program	Flow Chart			Checking / Indicator Monitoring
Dept/ Person Step/ Time	DISTRICT VALUE ENGINEER	DISTRICT MANAGEMENT	STATE VALUE ENGINEER	
NEED				
REVIEW				
DEVELOP				
APPROVAL				
DISTRIBUTE				
EXECUTE				
Process and Quality Indicators				
Process Indicators: % work plans approved by July 1 (P1) Quality Indicators: % scheduled studies completed (Q1), # projects > \$25 million never studied (Q2), % projects studied in Pre-Design phase (Q3)				
Control Limits and Specs/Targets				
100%				
75%				
0				
60%				
Checking Item				
Work Plan Received				D1: 11/2006 C
VER & Work Plan				D2: 12/2006 C
Work Program				D3: 12/2006 C
VER				D4: 5/2007 C
				D5: 1/2007 C
				D6: 5/2007 C
				D7: 1/2006 C
				TPK: 1/2007 C
				CODES: C- Compliance NC- Noncompliant BP Best Practice

Process Control System

Process Name: Value Engineering Team Selection Product/Service: Team with the necessary skills and experience to conduct a value engineering analysis	Primary Customers: Team Leaders & Team Members Partner: FHWA & Project Manager	Regulator's Valid Requirement(s): Multi-disciplined team of individuals not personally involved in the design of the project																																																																					
Flow Chart		Checking / Indicator Monitoring	Miscellaneous Information																																																																				
Input(s): Project disciplines Supplier(s): Department Heads, Consultants	DISTRICT VALUE ENGINEER DEPARTMENT HEAD STATE VALUE ENGINEER	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Process Indicators and Quality Indicators</th> <th style="width: 15%;">Control Limits and Specs/Targets</th> <th style="width: 15%;">Checking Item</th> <th style="width: 15%;">Timeframe (Frequency)</th> <th style="width: 15%;">Responsibility</th> <th style="width: 15%;">QAR</th> </tr> </thead> <tbody> <tr> <td>Q1: # of teams missing required disciplines</td> <td>0</td> <td>VER & VE Study Report</td> <td>Annual</td> <td>SVE</td> <td>D1: 11/2006 C</td> </tr> <tr> <td>Q2: # of teams with more than 2 untrained team members serving as primary team member</td> <td>0</td> <td>VER & VE Study Report</td> <td>Annual</td> <td>SVE</td> <td>D2: 12/2006 C</td> </tr> <tr> <td>Q3: # of team leaders not meeting qualifications</td> <td>0</td> <td>VER, VE study report, SAVE, FLPE, TRESS</td> <td>Annual</td> <td>SVE</td> <td>D3: 12/2006 C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D4: 5/2007 C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D5: 1/2007 C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D6: 5/2007 C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D7: 11/2006 C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TPK: 12/2007 C</td> </tr> <tr> <td colspan="6" style="text-align: right;"> CODES: C-Compliance NC- Noncompliant BP Best Practice </td> </tr> </tbody> </table>	Process Indicators and Quality Indicators	Control Limits and Specs/Targets	Checking Item	Timeframe (Frequency)	Responsibility	QAR	Q1: # of teams missing required disciplines	0	VER & VE Study Report	Annual	SVE	D1: 11/2006 C	Q2: # of teams with more than 2 untrained team members serving as primary team member	0	VER & VE Study Report	Annual	SVE	D2: 12/2006 C	Q3: # of team leaders not meeting qualifications	0	VER, VE study report, SAVE, FLPE, TRESS	Annual	SVE	D3: 12/2006 C						D4: 5/2007 C						D5: 1/2007 C						D6: 5/2007 C						D7: 11/2006 C						TPK: 12/2007 C	CODES: C-Compliance NC- Noncompliant BP Best Practice						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">- Abbreviations</td> <td style="width: 15%;">- Procedure</td> <td style="width: 15%;">- Reference</td> <td style="width: 15%;">- Notes, etc.</td> </tr> <tr> <td>Federal Regulation 23 CFR 627</td> <td>VE Procedure 625-030-002</td> <td>AASHTO Guidelines for VE</td> <td>NCHRP Synthesis 352 - Value Engineering Applications in Transportation</td> </tr> </table>	- Abbreviations	- Procedure	- Reference	- Notes, etc.	Federal Regulation 23 CFR 627	VE Procedure 625-030-002	AASHTO Guidelines for VE	NCHRP Synthesis 352 - Value Engineering Applications in Transportation
Process Indicators and Quality Indicators	Control Limits and Specs/Targets	Checking Item	Timeframe (Frequency)	Responsibility	QAR																																																																		
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Q2: # of teams with more than 2 untrained team members serving as primary team member	0	VER & VE Study Report	Annual	SVE	D2: 12/2006 C																																																																		
Q3: # of team leaders not meeting qualifications	0	VER, VE study report, SAVE, FLPE, TRESS	Annual	SVE	D3: 12/2006 C																																																																		
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CONSULTANT REQUESTS																																																																							
TEAM SELECTION																																																																							
NOTIFICATION																																																																							

Process Control System

Process Name: Value Engineering Recommendation Resolution Process.		Product/Service: Resolution of VE Team Recommendations	Primary Customers: Project Manager, SVE Partners: FHWA	Customer's Valid Requirement(s): Recommendations are acted upon in a timely manner, but that a recommendation is acted upon based on information and not time.	Regulator's Valid Requirement(s): Process to approve or reject recommendations to ensure the prompt review of VE recommendations	
Input(s): Recommendations Supplier(s): VE Team		Flow Chart				
Dept/ Person	DISTRICT VALUE ENGINEER	STATE VALUE ENGINEER			Miscellaneous Information	
Step/ Time	Checking / Indicator Monitoring				Miscellaneous Information	
NEED	Process and Quality Indicators	Checking Item	Timeframe (Frequency)	Responsibility	QAR	
REVIEW	<p>Process Indicators: Adoption Rate (01)</p> <p>Quality Indicators: # of pending rec. per time period (02)</p> <p>Control Limits And Specs/Targets: 40%-60%</p>	<p>What is to be checked? VER</p>	<p>When to check? Quarterly</p>	<p>Who will check? SVE</p>	<p>Date of Last Review</p> <p>D1: 11/2006 C</p> <p>D2: 12/2006 C</p> <p>D3: 12/2006 C</p> <p>D4: 5/2007 C</p> <p>D5: 1/2007 C</p> <p>D6: 5/2007 C</p> <p>D7: 11/2006 C</p> <p>TPK: 1/2007 C</p>	<p>- Abbreviations</p> <p>- Procedure Reference</p> <p>- Notes, etc.</p> <p>Federal Regulation 23 CFR 627</p> <p>VE Procedure 625-030-002</p> <p>1999 AASHTO Guidelines for VE</p> <p>NCHRP Synthesis 352 - Value Engineering Applications in Transportation</p>
RESOLUTION MEETING	<pre> graph TD Start([Resolve Pending Recommendations]) --> Distribute[Distribute Study report to project team and Decision Makers] Distribute --> Resolved{Recommendations not resolved at presentation?} Resolved -- NO --> Schedule[Schedule Resolution Meeting] Resolved -- YES --> Available{Are Decision Makers Available} Available -- YES --> Meeting[Conduct meeting - Obtain Decisions (Adopt, Modify, Pending, Reject)] Available -- NO --> Schedule Meeting --> Made{Decisions Made?} Made -- YES --> Update[Update the database] Made -- NO --> Escalate[Escalate Decision Process] Update --> Monitor([Monitor Pending Recommendations]) </pre>					
MONITOR	<p>Codes:</p> <p>C- Compliance</p> <p>NC- Noncompliant</p> <p>BP Best Practice</p>					

Approved: _____ Date: _____ Process Owner: District Value Engineer Rev #: 1.5 Rev Date: 08/2007

Process Control System

Process Name: Cost Savings Initiative (CSI) Proposal		Product/Service: Resolution of CSI proposed by the Construction Contractor		Primary Customers: Construction Contractor Partners: FHWA		Customer's Valid Requirements(s): Review and either approve or reject the CSI proposal in a timely manner.		Regulator's Valid Requirements(s): Program that encourages the use of a cost reduction incentive clause.		Miscellaneous Information																																					
Step/ Time	Dept/ Person	Flow Chart						Checking / Indicator Monitoring																																							
		CONTRACTOR	RESIDENT ENGINEER	DISTRICT VALUE ENGINEER	REVIEWERS DESIGN CONST. OTHERS	DISTRICT CONSTRUCTION ENGINEER	DISTRICT DIRECTOR OF OPERATIONS	Process Measures (QA/QC)	Checking Item			Timeframe (Frequency)	Responsibility	QAR																																	
PRIOR TO BEGINNING OF CONTRACT TIME												VER	Quarterly	DVE/SVE	D1: 11/2006 C	P1 #pending	VER	Quarterly	DVE/SVE	D2: 12/2006 C	P2 \$\$\$ pending	VER	Monthly	SVE	D3: 12/2006 C	O1 #Approved	VER	Monthly	SVE	D4: 5/2007 C	O2 \$\$\$ Saved	VER	Monthly	SVE	D5: 12/2007 C	O3 % Project Saved	VER	Monthly	SVE	D6: 5/2007 C	O4 % Program Saved	VER	Monthly	SVE	D7: 11/2006 C	TPK: 12/2007 C	CODES: C - Compliance NC - Noncompliant BP - Best Practices
AFTER CONTRACT TIME BEGINS																																															
SUBMITTAL																																															
REVIEW																																															
NOTIFICATION																																															

Approved: _____ Date: _____ Process Owner: _____ Rev #: 1.6 Rev Date: 5/2011