
Value Engineering
Semi-Annual Report
FY 2007/2008



Table of Contents

Executive Summary	1
Program Organization	2
Value Engineering Overview	3
FY 2007/2008 Performance Measures	5
Work Plan Completion.....	6
Adopted Recommendations	7
Adoption Rates	8
Percent Project Saved	9
Pending Recommendations.....	10
VECP Summary.....	11
Appendix A: 5 year History Annual Performance Measures by District	12
District 1	13
District 2.....	16
District 3.....	19
District 4.....	22
District 5.....	25
District 6.....	28
District 7.....	31
Turnpike.....	34
Appendix B: Process Control Systems	37
Value Engineering Process	38
Project Selection.....	39
Team Selection.....	40
VE Study Process.....	41
Recommendations Resolution	42
Reporting	43
VECP Process	44

Executive Summary

VE During Project Development

The Districts completed 15 studies or 52% of the original scheduled work plan during the first 2 quarters of the fiscal year. The original work plan had 29 studies scheduled for this time period and the target was to complete 75% of the planned studies or in this case 22 studies. Due to the dynamics of the Department's work program, 12 of the 29 scheduled studies (41%) were either rescheduled for later in the fiscal year, combined with other studies or dropped from the work plan altogether.

During this same period, the Districts acted on 139 recommendations, approving 53 for a 38% adoption rate which is below our target range of 40% to 60%. Forty-five of the approved recommendations resulted in \$81.6 million in project cost avoidance/savings. The remaining eight recommendations were value added recommendations that increased project performance, while adding nearly \$30 million to the project cost. Therefore, the total value of the approved recommendations, including the value added recommendations, produced **\$51.6 million in project cost avoidance/savings.**

A new performance measure that has recently been adopted by AASHTO and FHWA is the percent of project saved. This measure is calculated by dividing the value of all approved recommendations by the total cost of the projects studied. The national average for this measure is 5% and through the first 2 quarters of this fiscal year the Department saved 3.49% of the total cost of projects studied.

There are currently 86 pending recommendations totaling \$145.4 million in potential cost avoidance. This is a 12% decrease in the total number of pending recommendations and a 9% decrease in the amount of pending dollars from the 4th quarter of last year. While the number and amount of pending recommendations has decreased, the number that has been pending for more than 7 months has increased by 50% and 36% of the total recommendations have been pending for more than 12 months. 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.

VE During Construction

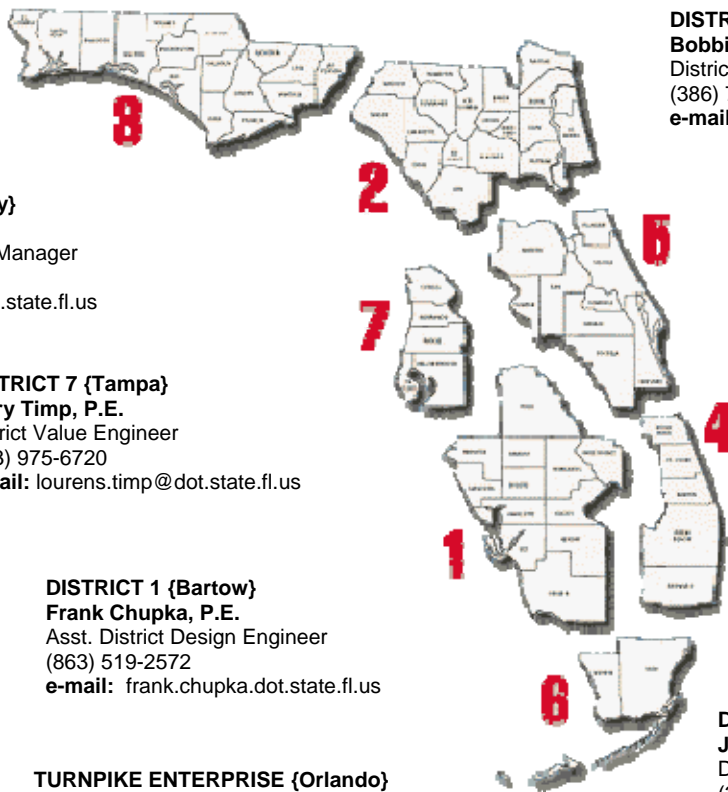
Sixteen Value Engineering Change Proposals (VECP's) were submitted during the first two quarters of the fiscal year, totaling more than \$2.4 million in potential project savings. During this same period, the districts acted on 12 proposals approving 8. The implemented savings from the 8 approved VECP's was more than \$1.3 million. There are currently four pending VECP's totaling \$332,200 in potential project savings.

Program Organization

Mission: Administer the Florida Department of Transportation Value Engineering Program, 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.

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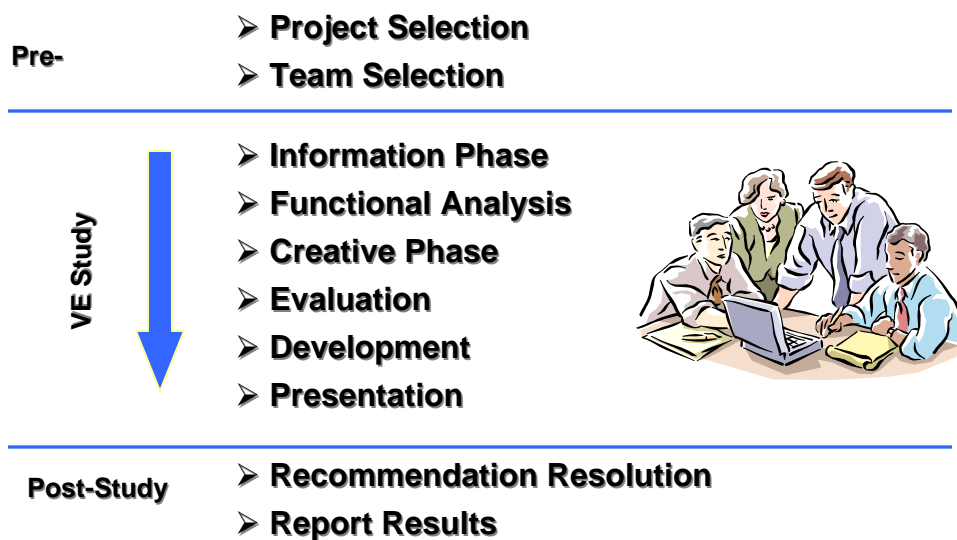
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Value Engineering Overview

What is Value Engineering

Value Engineering 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 Value Engineering 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

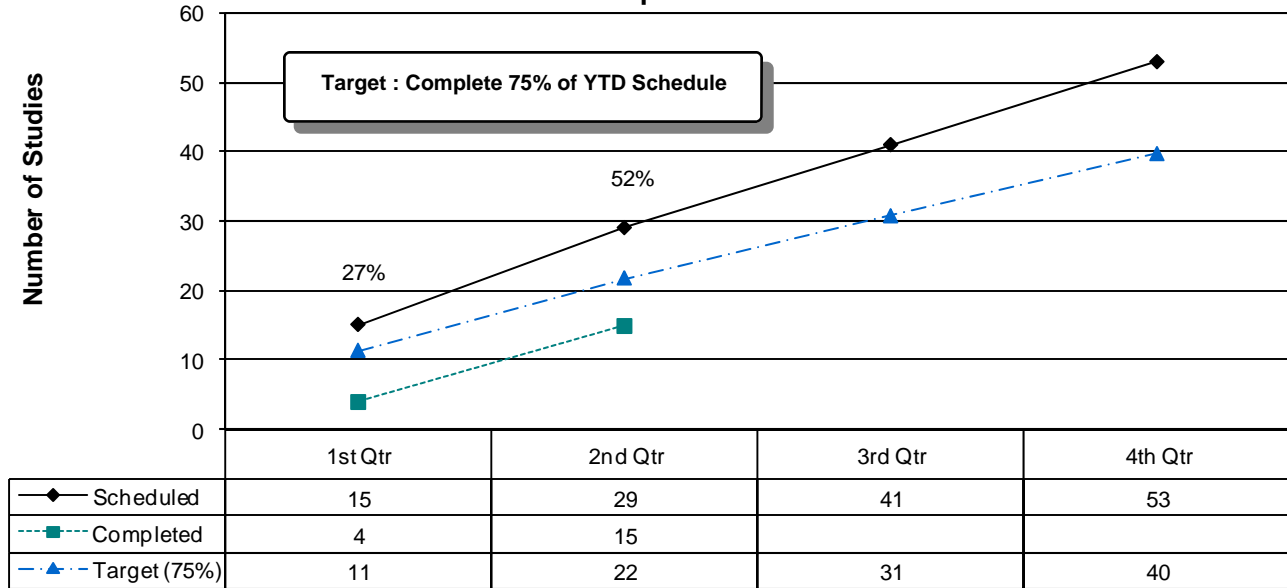
The Value Engineering Program is managed through the use of the Process Control Systems found in Appendix B. Each process has a set of Quality and In-Process measures that are used to evaluate the performance of the program. The Quality Measures for the overall Value Engineering program are defined below.

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: Return on Investment (only reported annually)	$\frac{\text{Value of Approved Recommendations}}{\text{Total cost of VE Program}}$
VECP Program	
Q1: Number of VECP's	Sum of all VECP's
Q2: Approved Cost Savings	Sum of all approved VECP savings

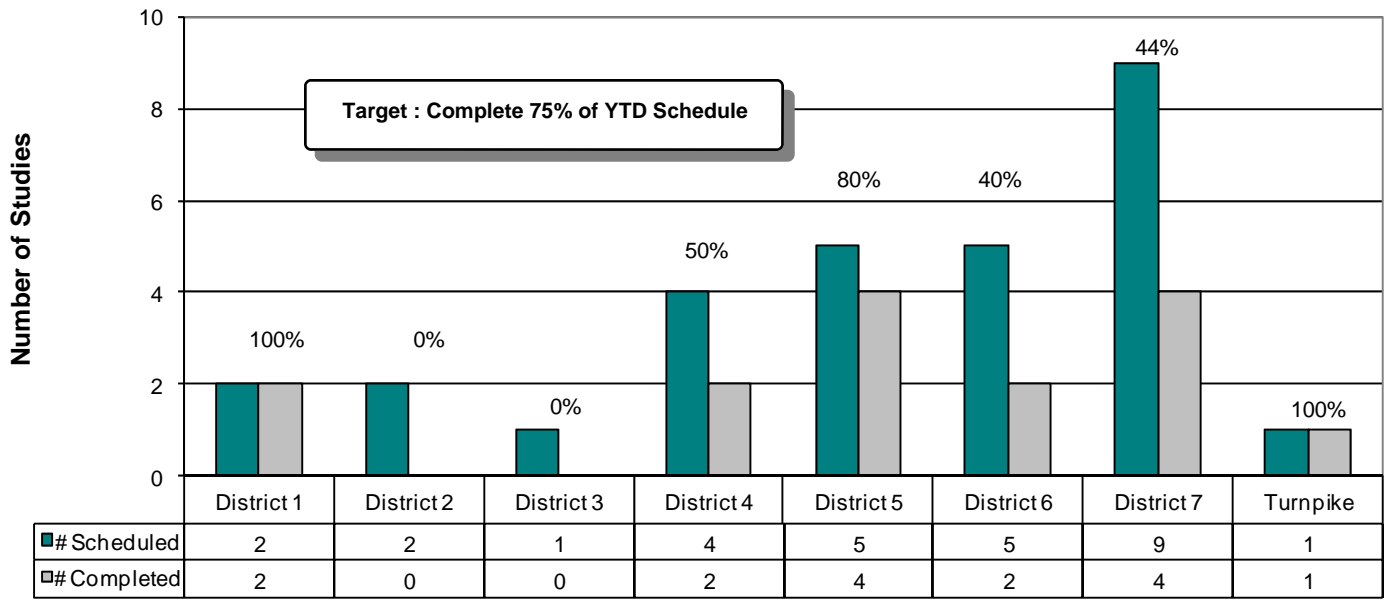
FY 2007/2008 Performance Measures

Work Plan Completion

P1: VE Studies Scheduled vs. Completed
Semi-Annual Report FY 2007/2008

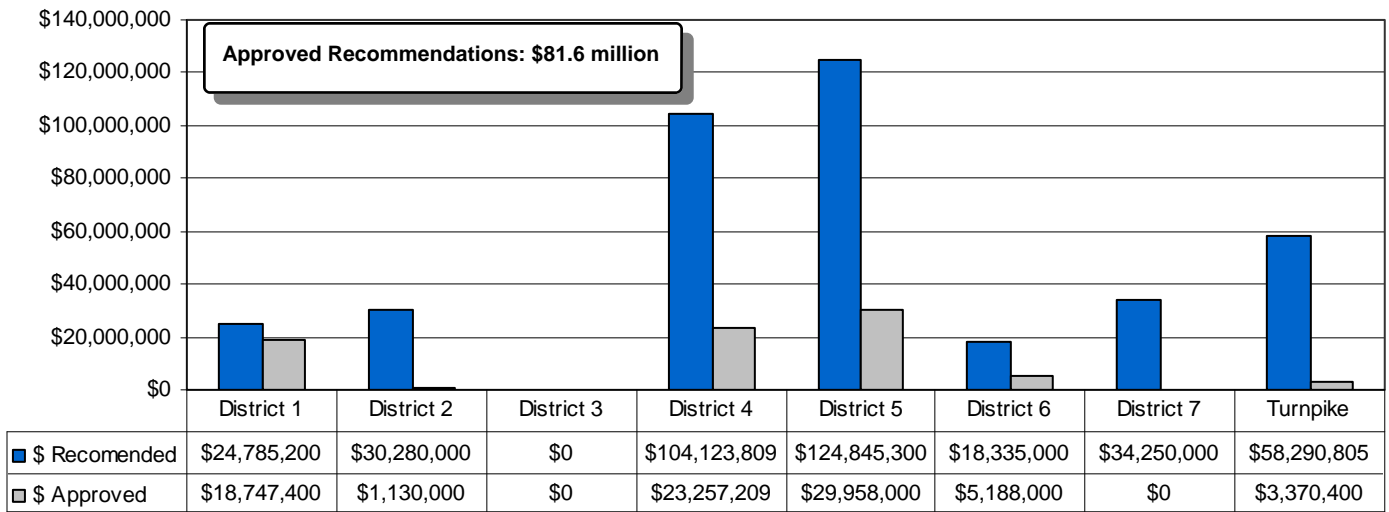


P1: VE Studies Scheduled vs Completed
Semi-Annual Report FY 2007/2008

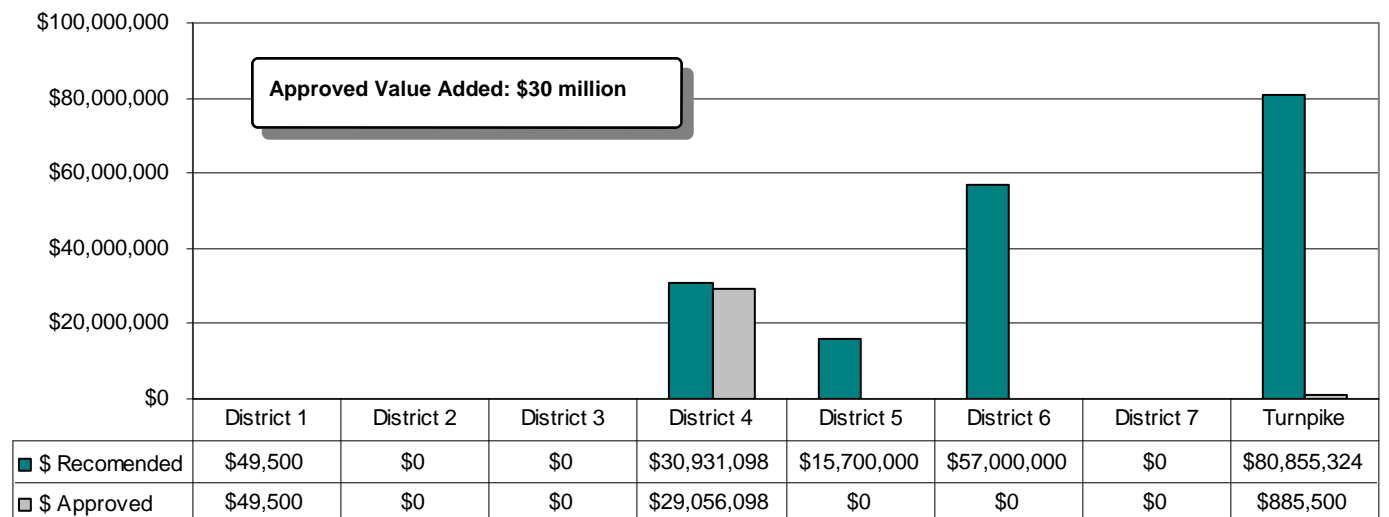


Adopted Recommendations

Q1: Cost Avoidance Recommendations Semi-Annual Report Fiscal Year 2007/2008



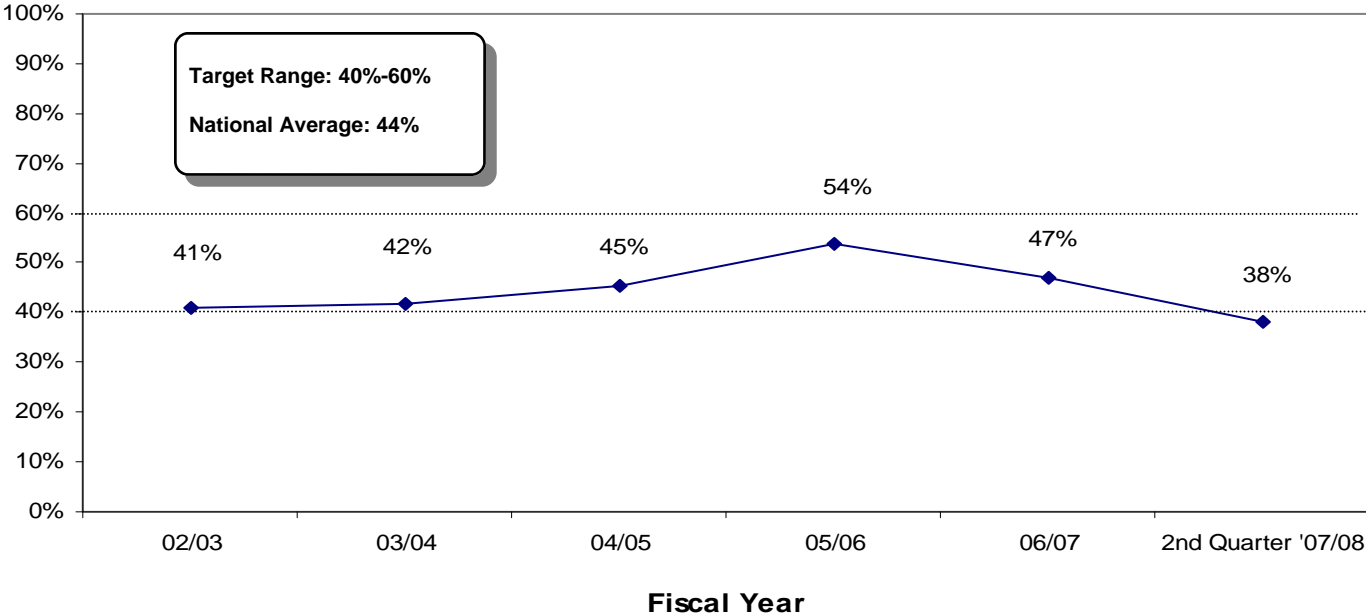
Q2: Value Added Recommendations Semi-Annual Report Fiscal Year 2007/2008



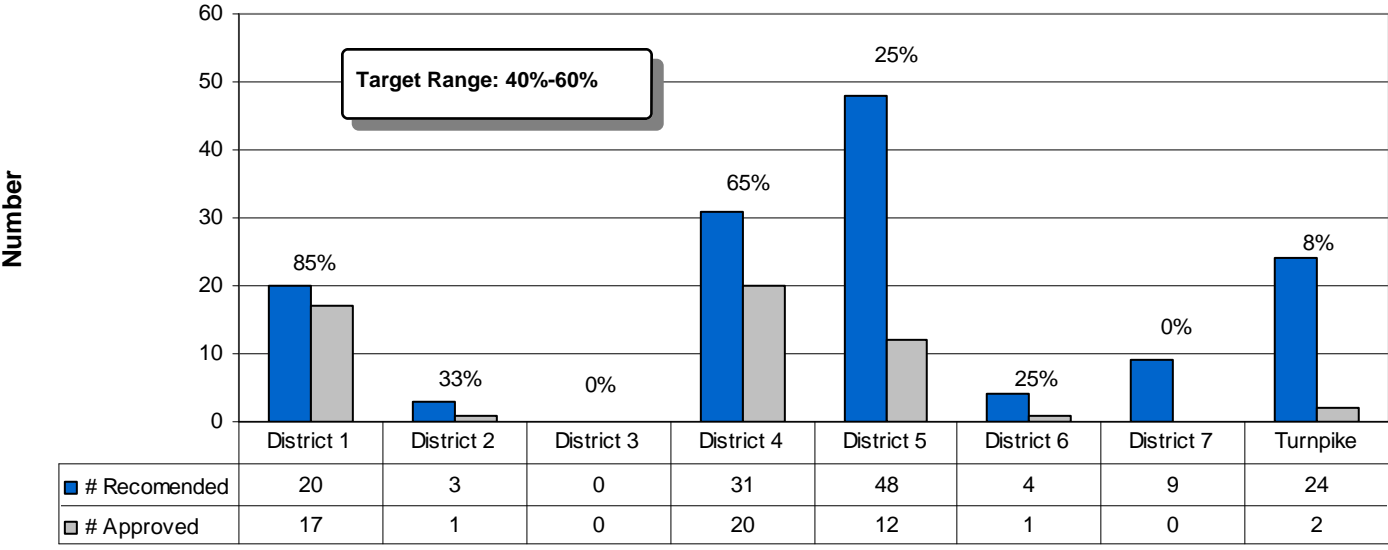
* A Value Added Recommendation significantly increases the performance of a function while also increasing the cost.

Adoption Rates

Q3: Annual Adoption Rate

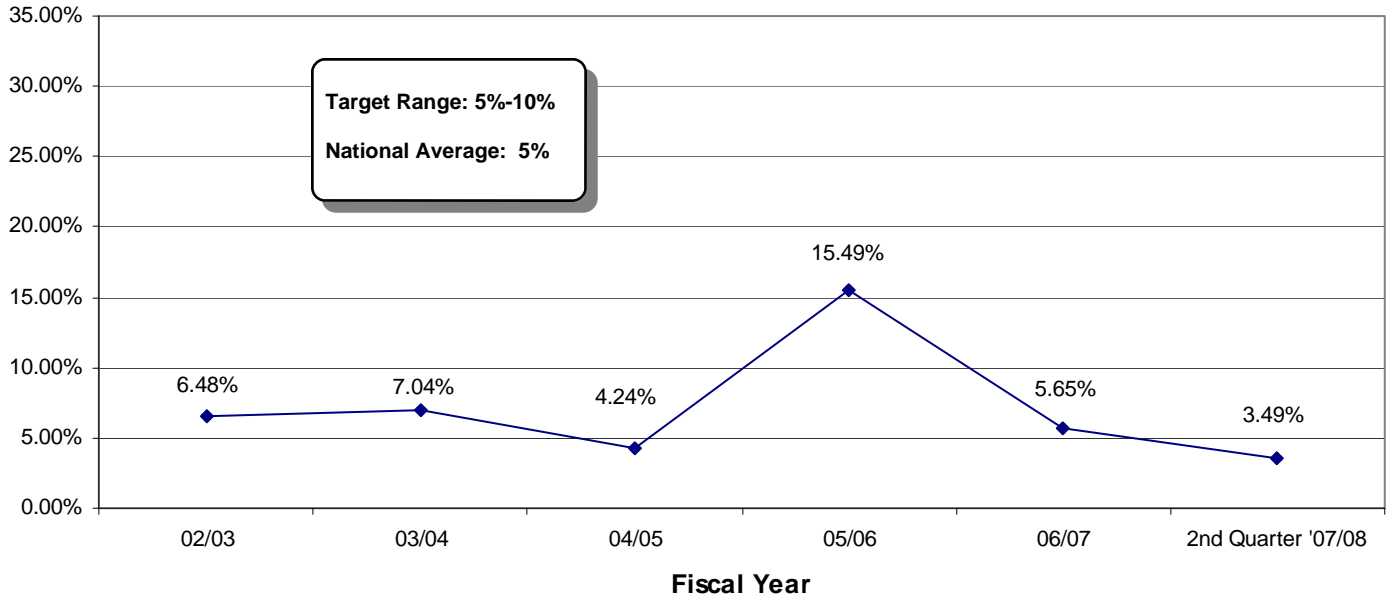


**Q3: Adopted Recommendations
Semi-Annual Report Fiscal Year 2007/2008**

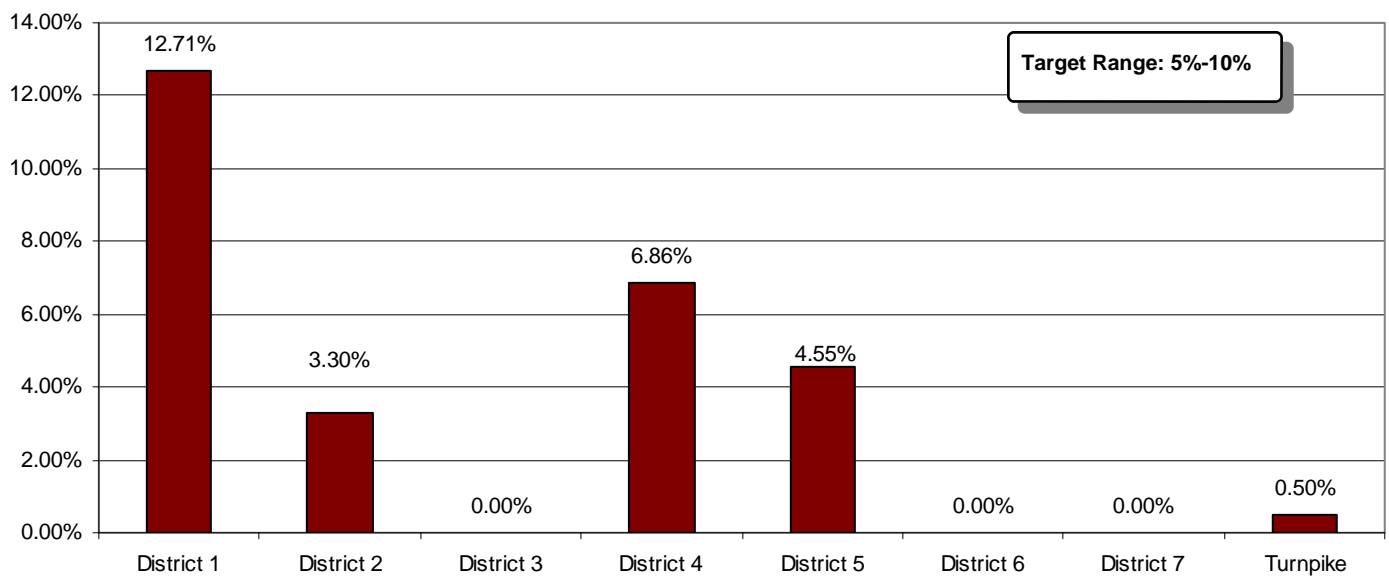


Percent Project Saved

Q4: Annual Percent Project Saved

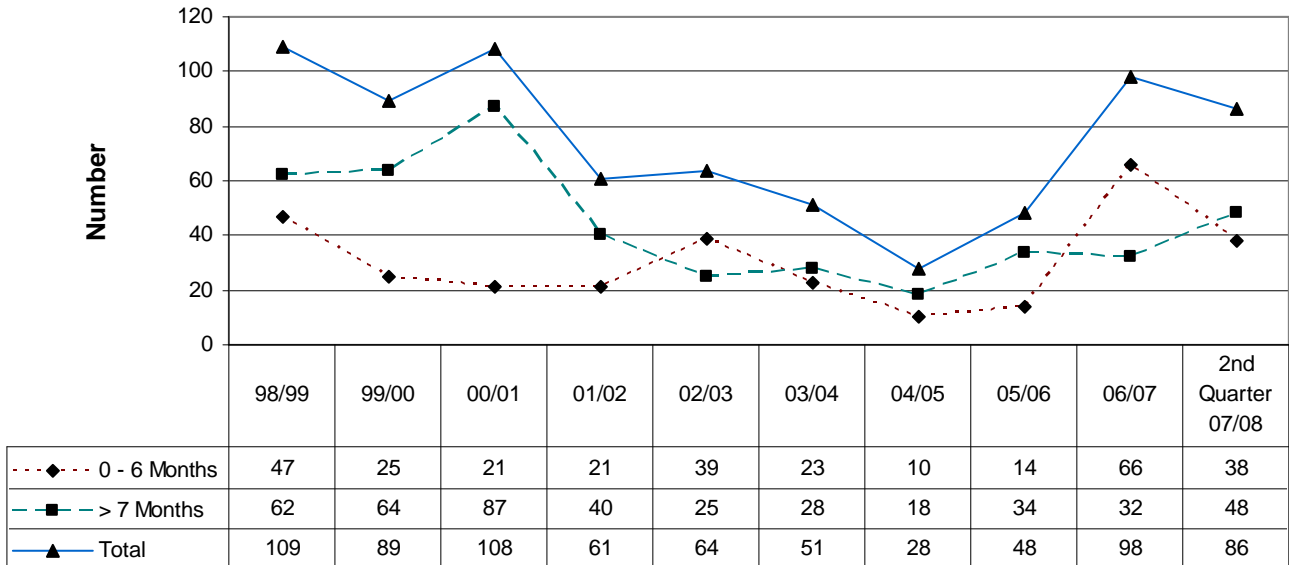


**Q4: Percent Project Saved
Semi-Annual Report Fiscal Year 2007/2008**

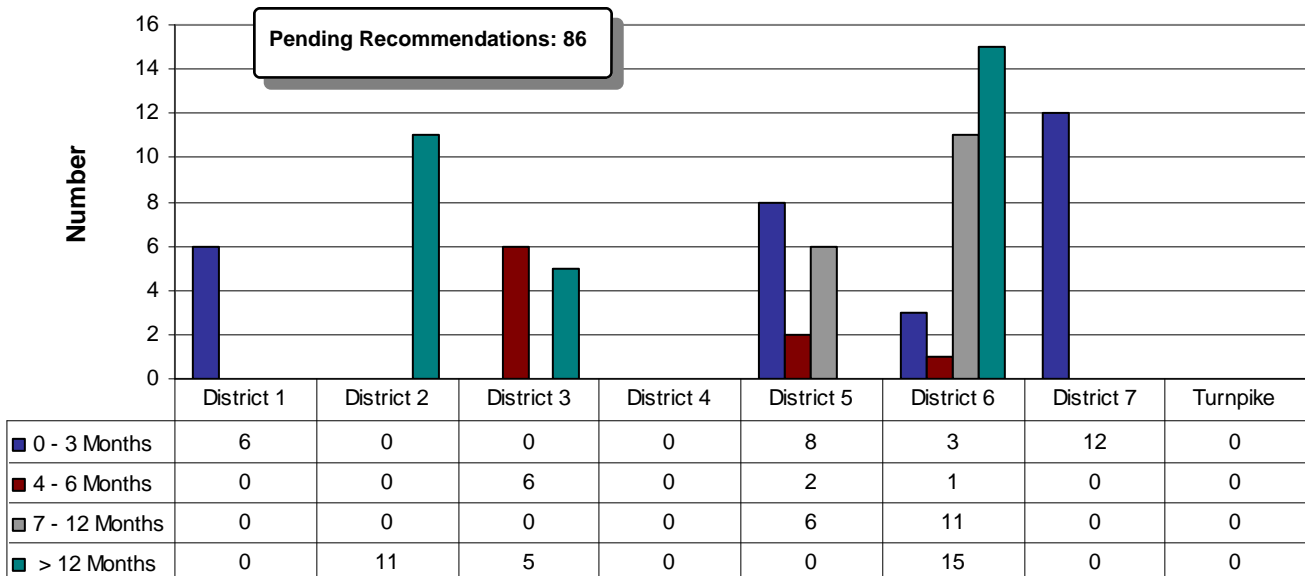


Pending Recommendations

P4: Annual # Pending Recommendations
Semi-Annual Report Fiscal Year 2007/2008

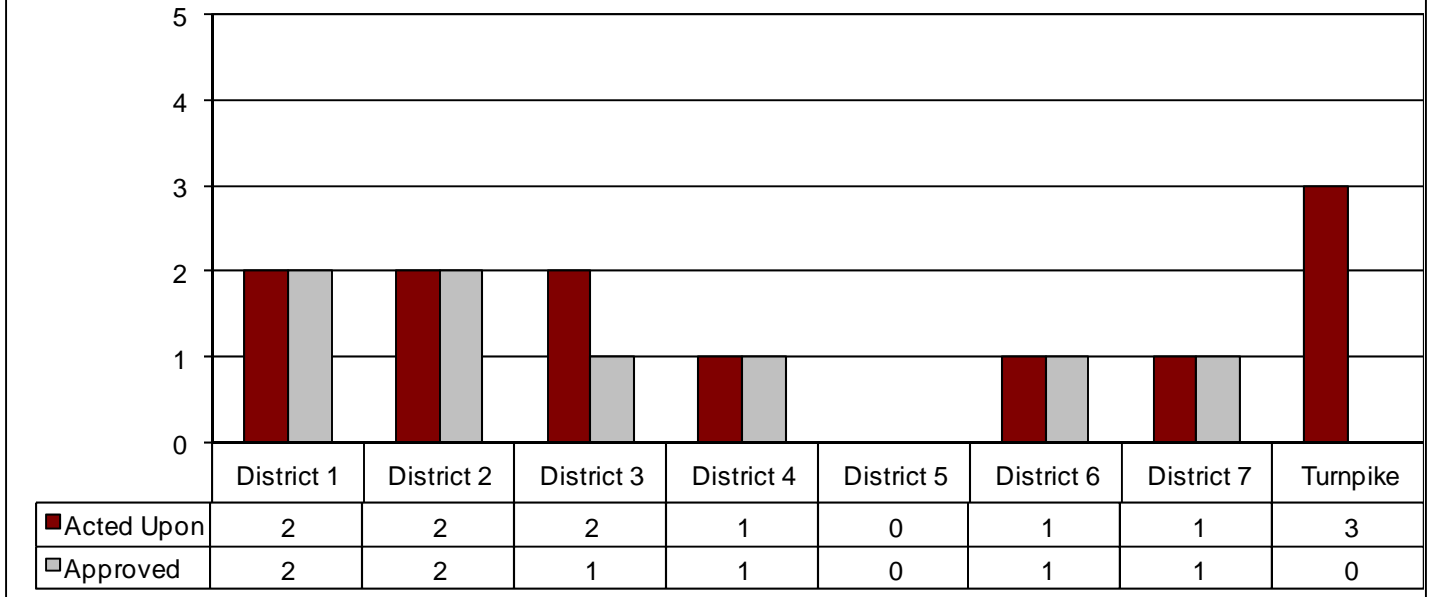


P4: # Pending Recommendations
Semi-Annual Report Fiscal Year 2006/2007

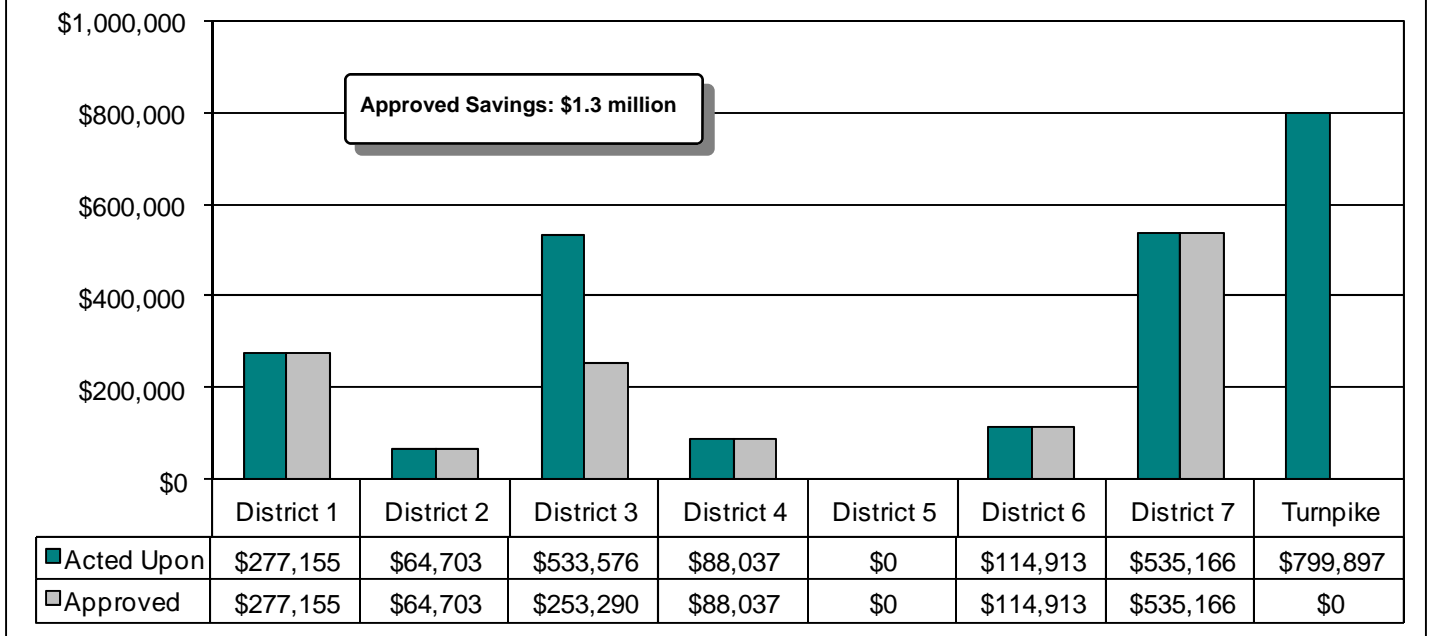


VECP Summary

VECP's Acted Upon
Semi-Annual Report Fiscal Year 2007/2008



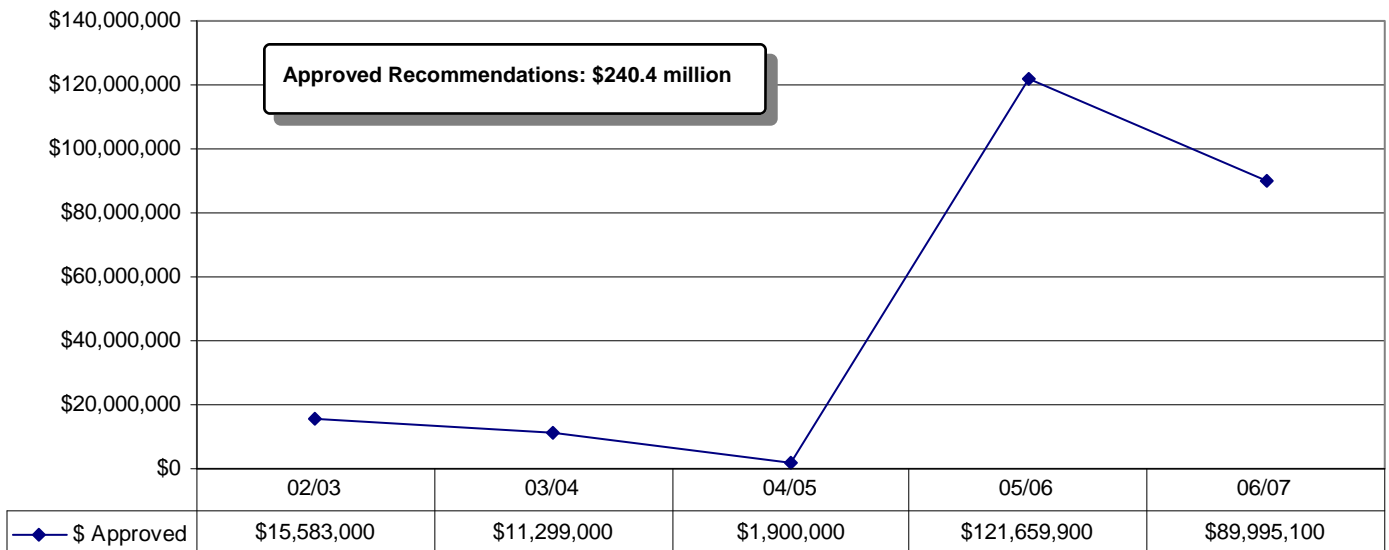
Approved VECP Savings
Semi-Annual Report Fiscal Year 2007/2008



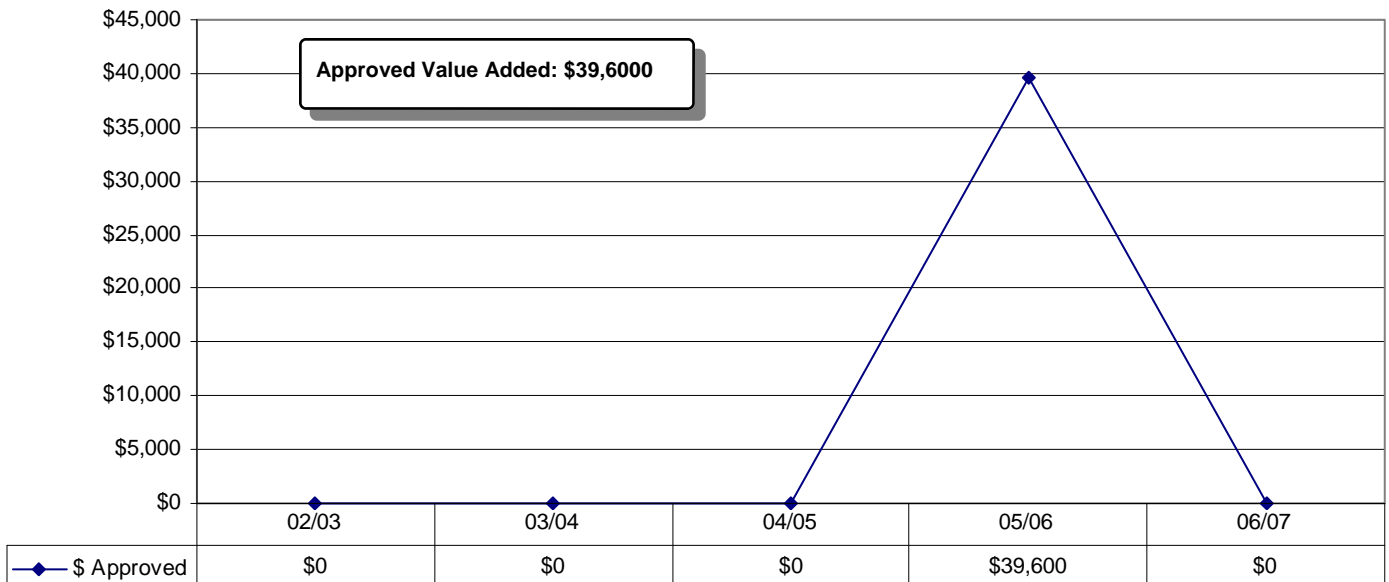
Appendix A
5 year History
Annual Performance Measures
by District

District 1

Q1: Annual Approved Cost Avoidance/Savings
District 1

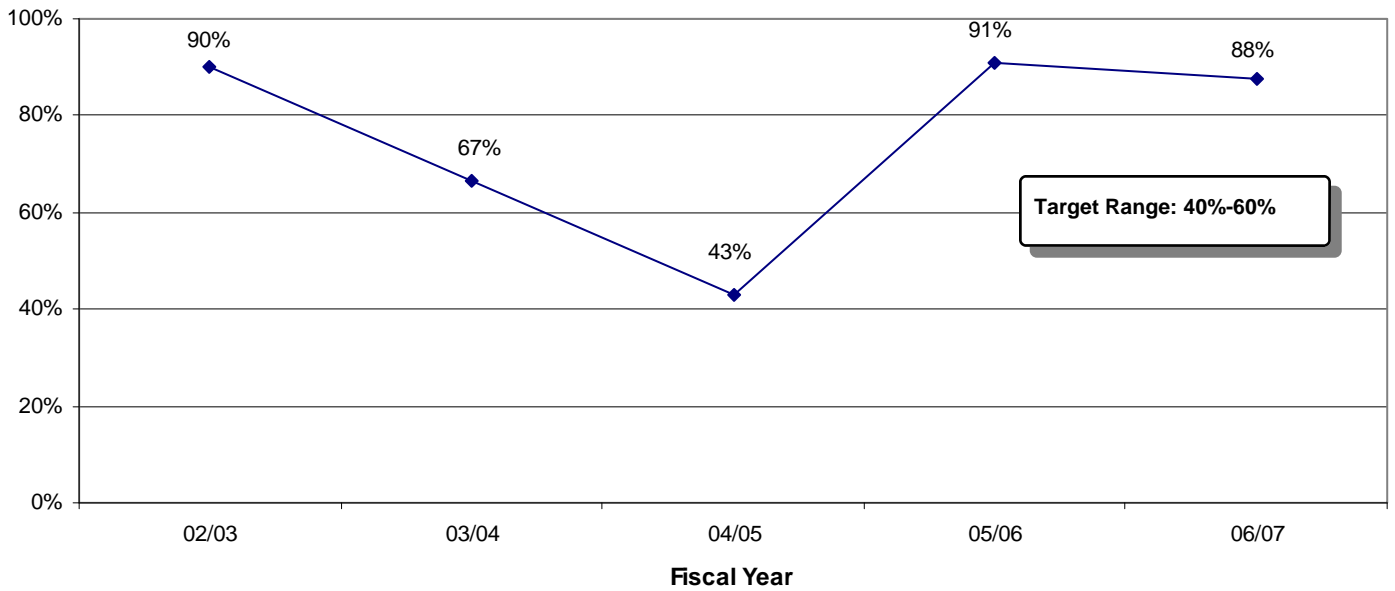


Q2: Annual Approved Value Added Recommendations
District 1

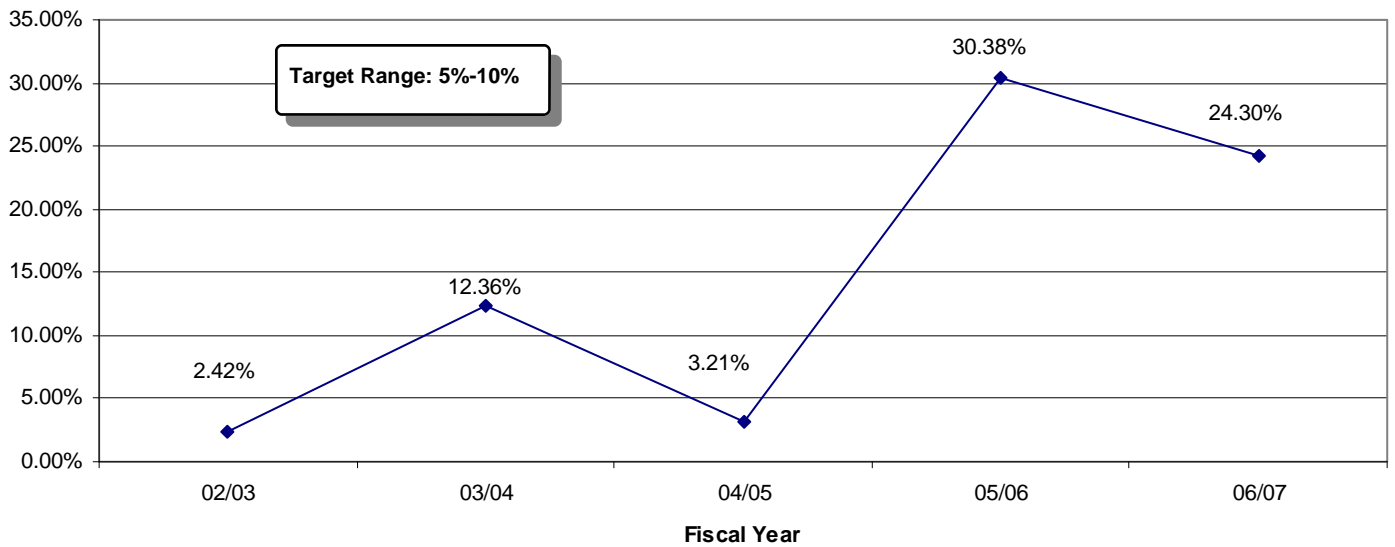


District 1

Q3: Annual Adoption Rate District 1

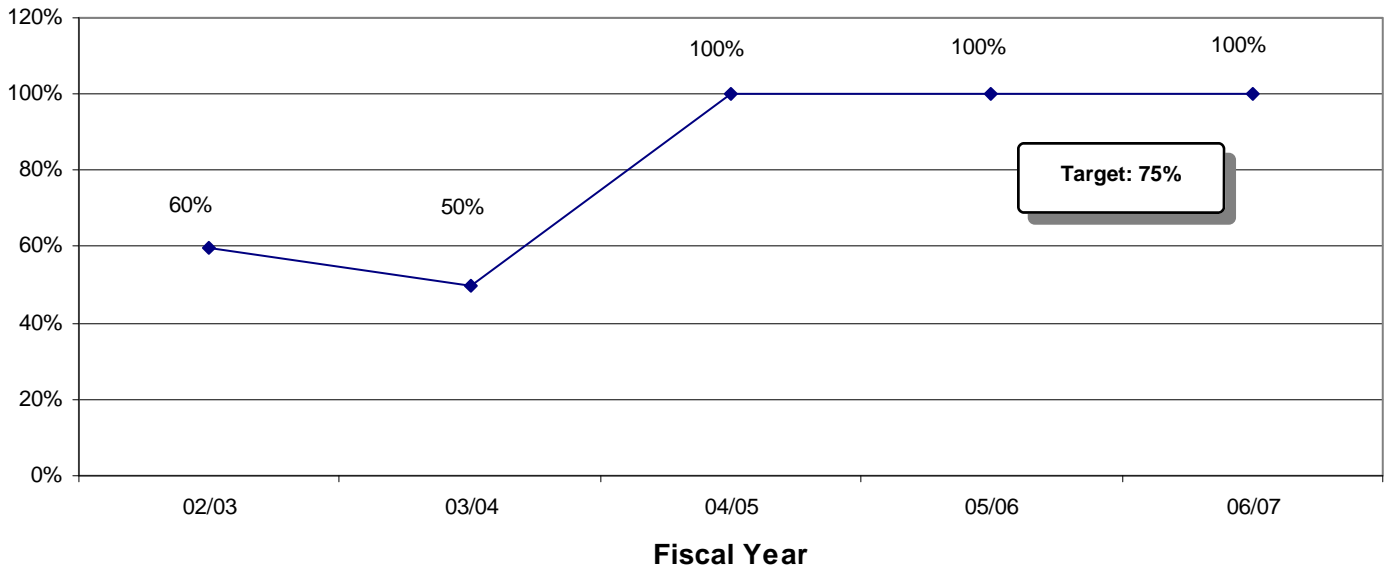


Q4: Annual Percent Project Saved District 1

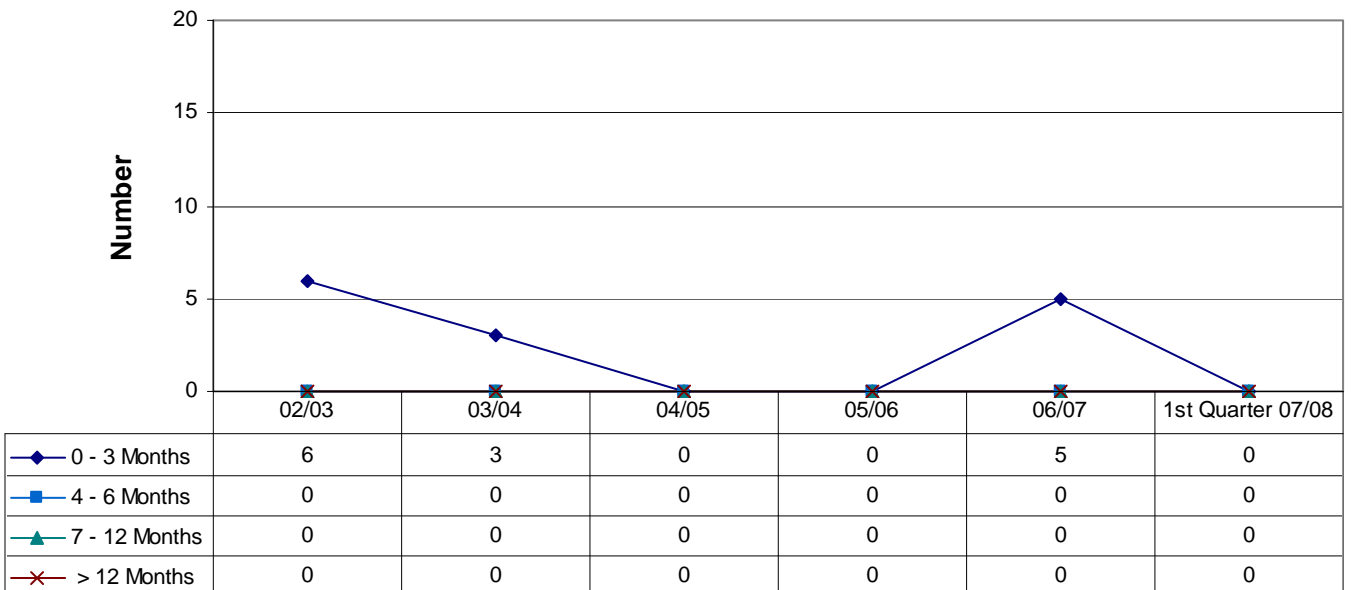


District 1

P1: % Scheduled VE Studies Completed
District 1

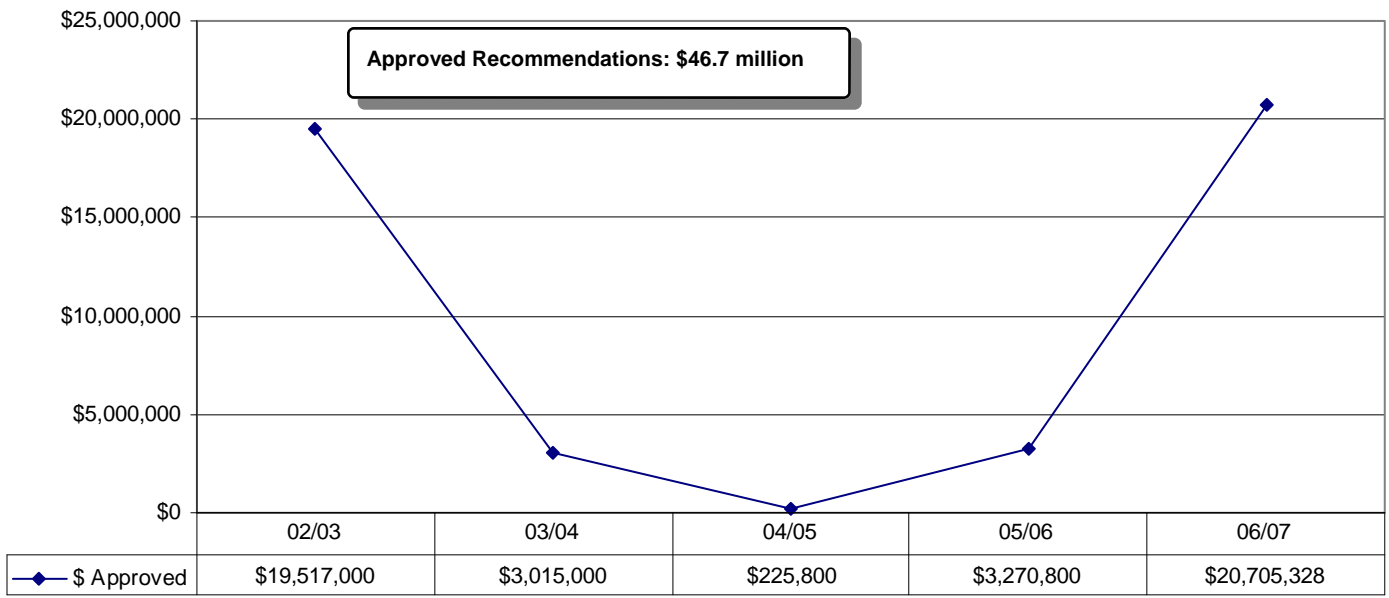


P4: Annual # Pending Recommendations
District 1

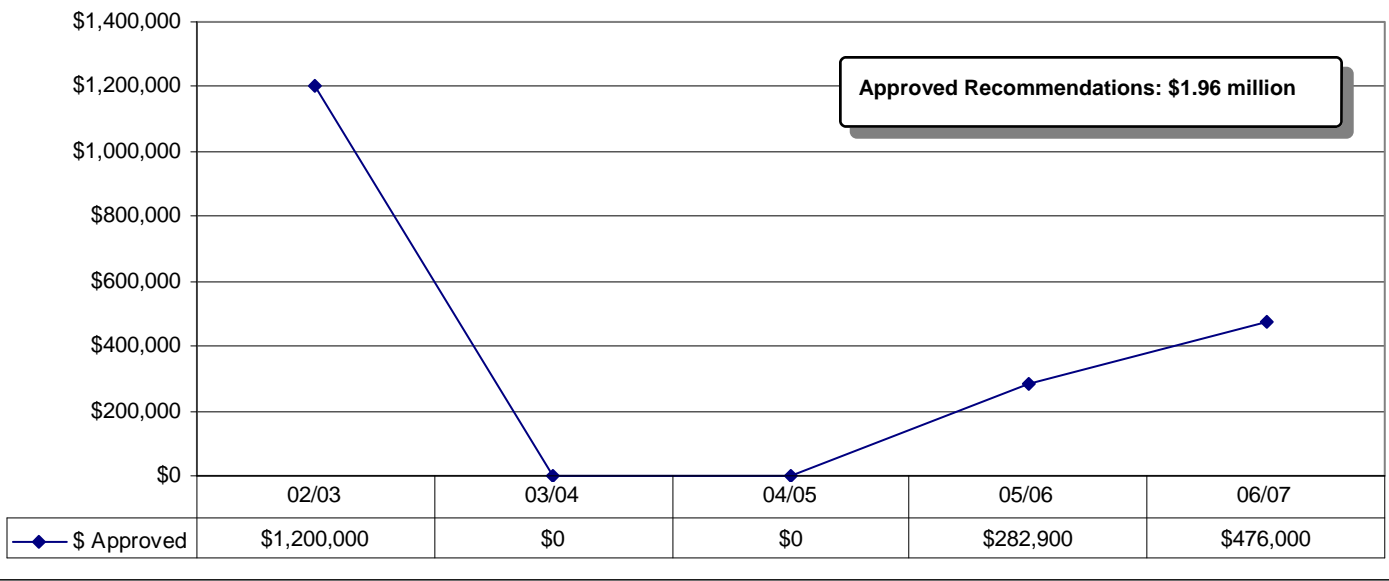


District 2

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

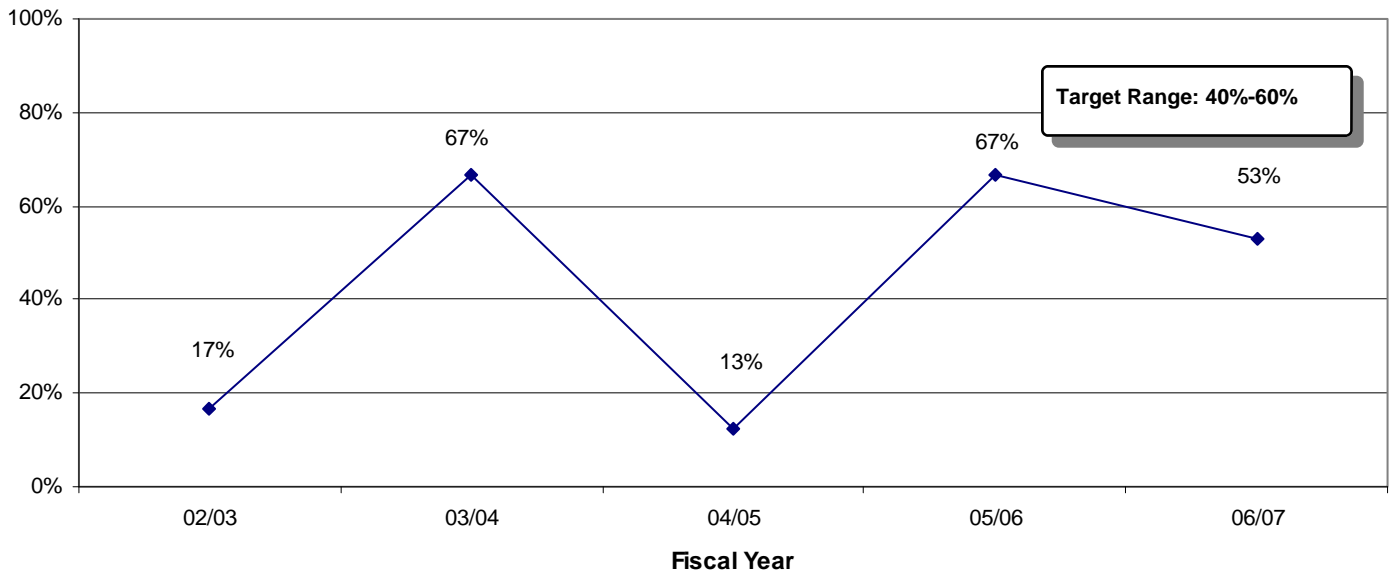


**Q2: Annual Approved Value Added Recommendations
District 2**

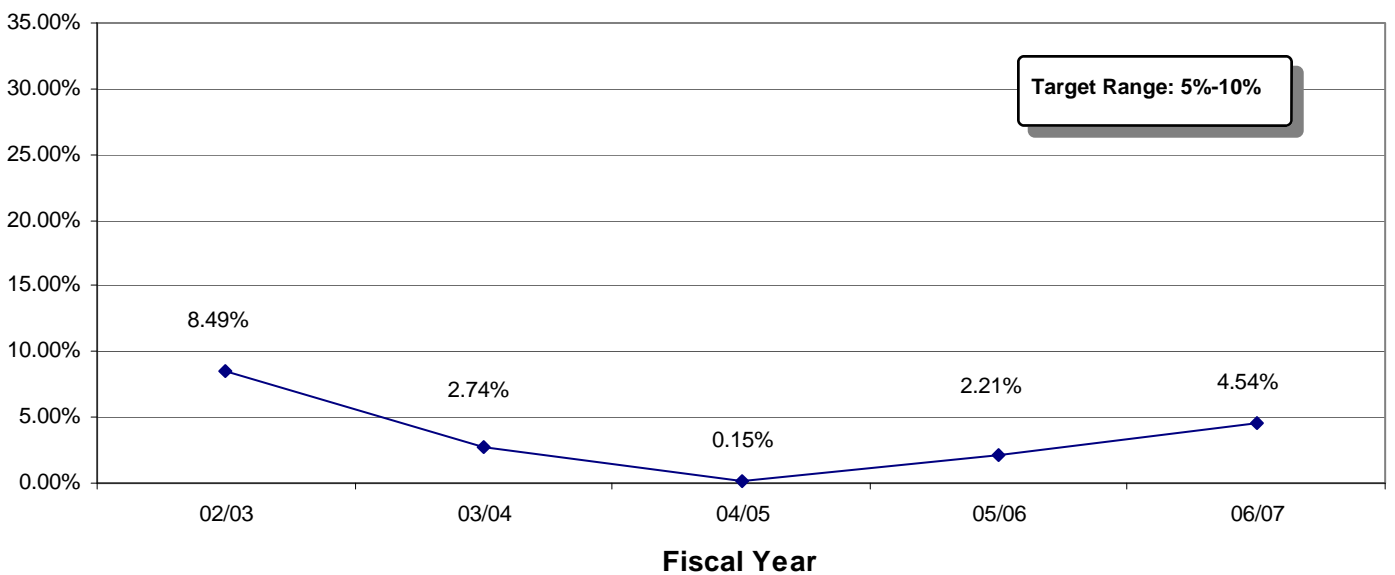


District 2

Q3: Annual Adoption Rate District 2

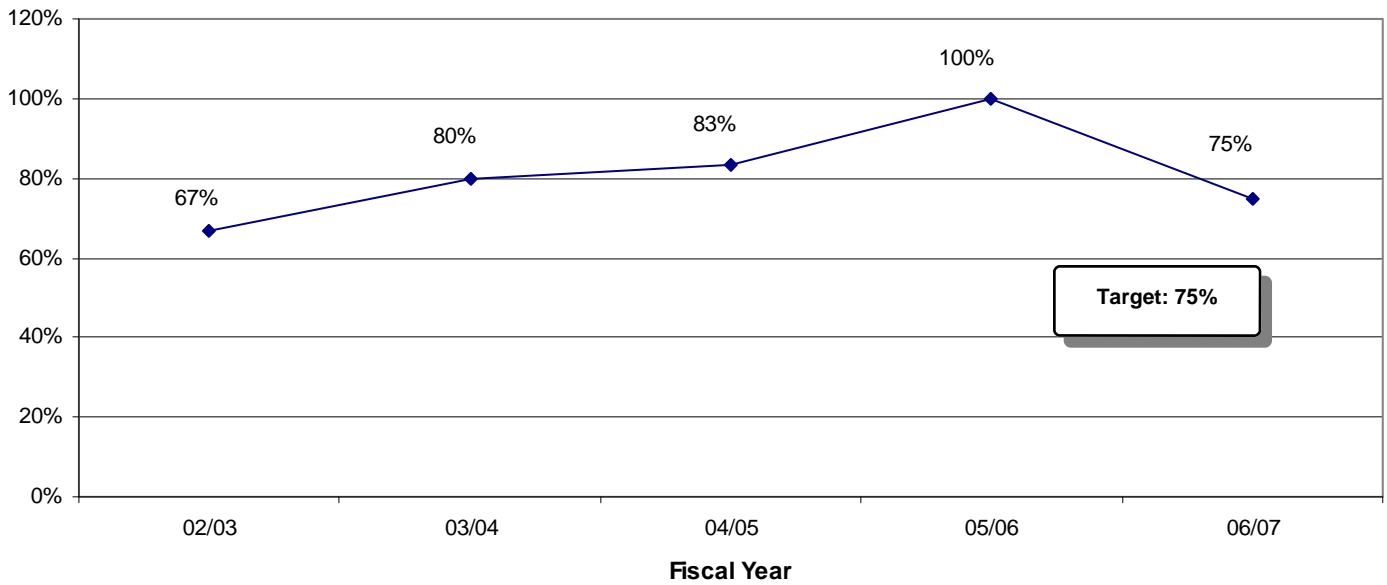


Q4: Annual Percent Project Saved District 2

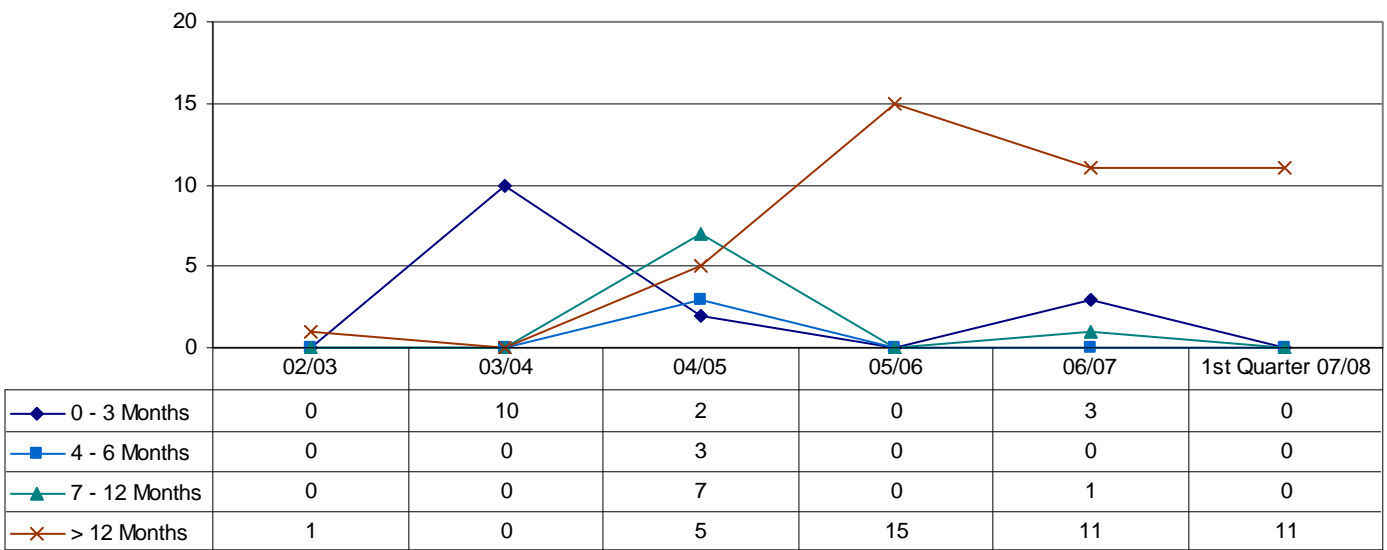


District 2

P1: % Scheduled VE Studies Completed
District 2

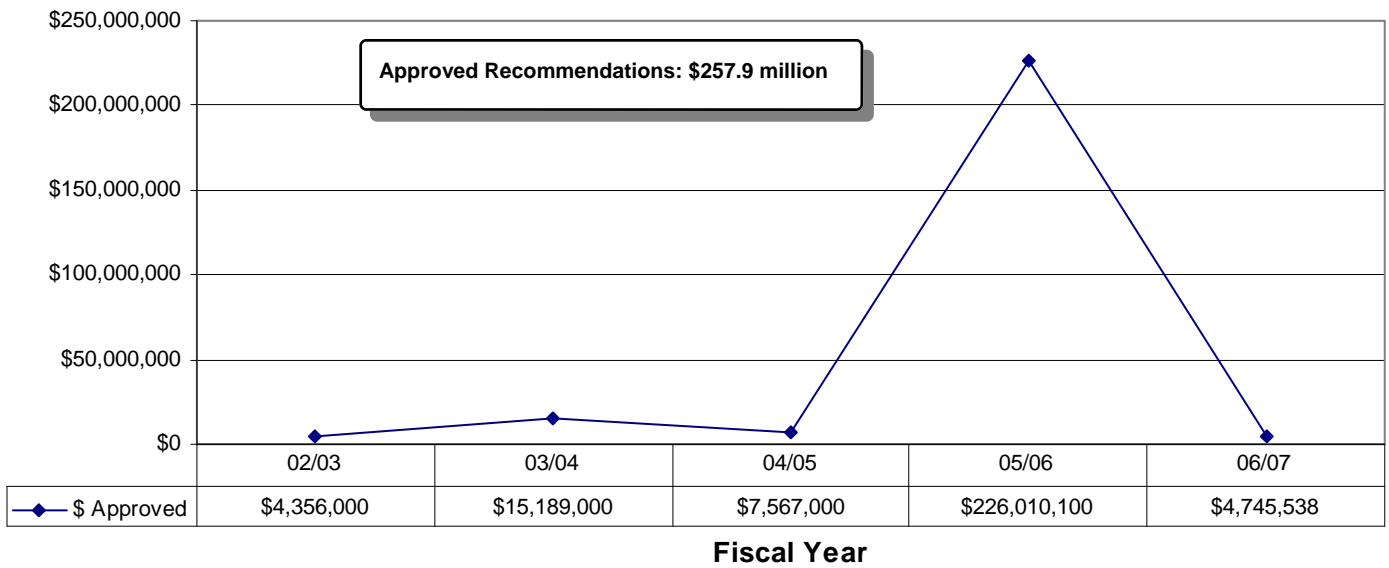


P4: Annual # Pending Recommendations
District 2

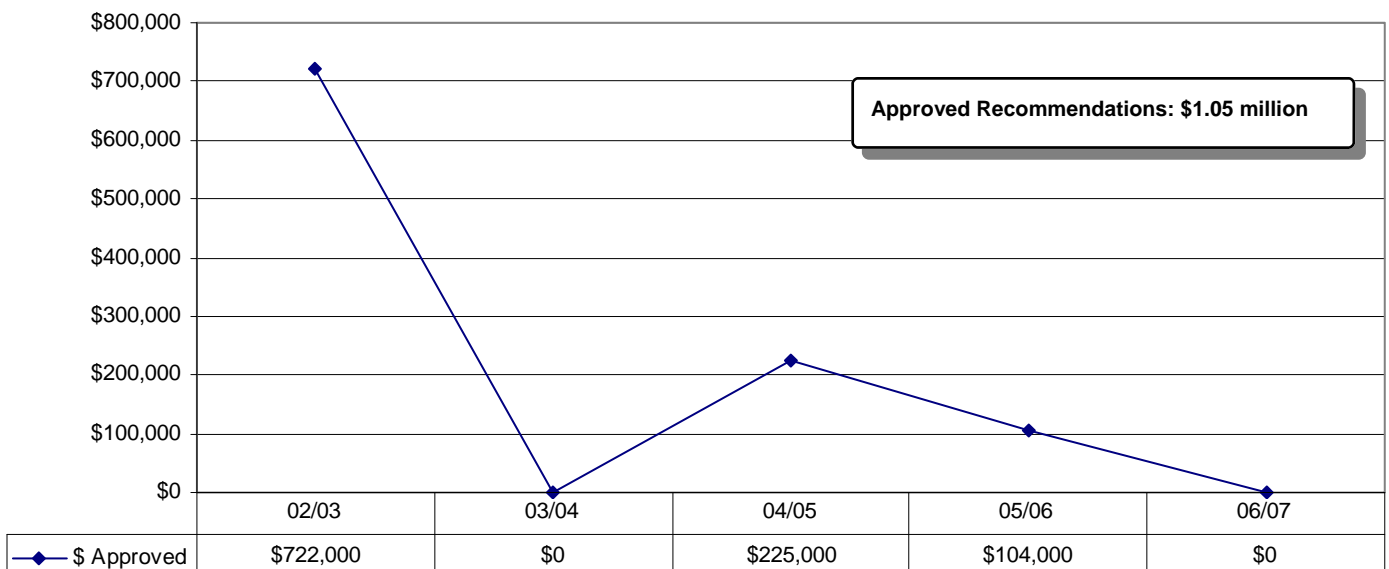


District 3

**Q1: Annual Approved Cost Avoidance/Savings
District 3**

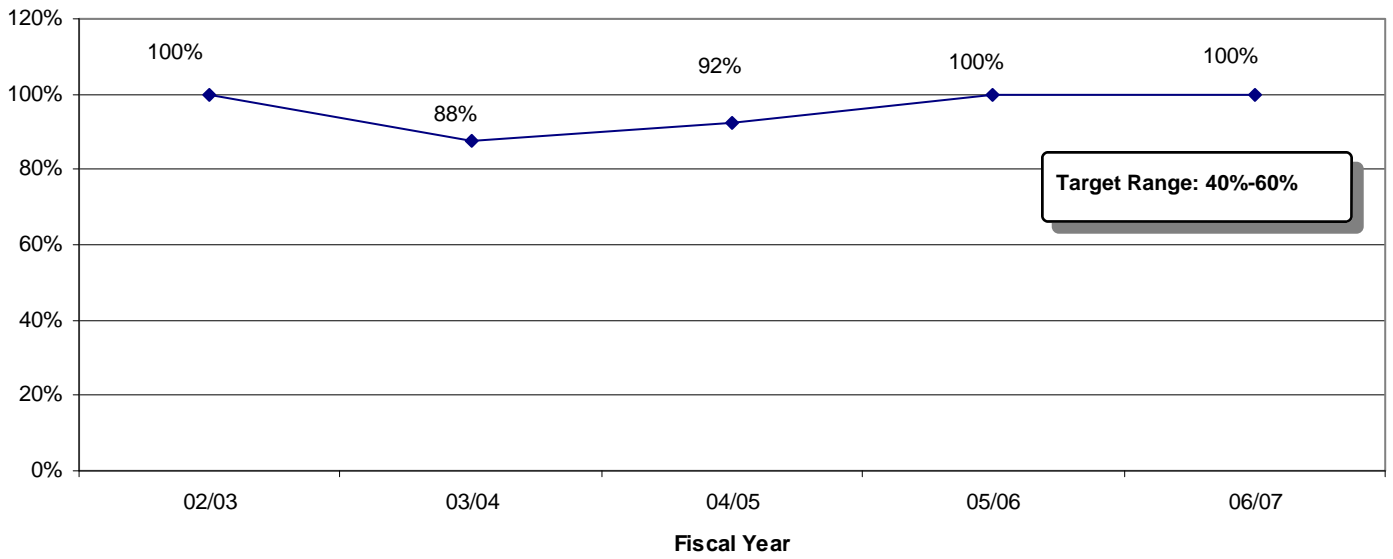


**Q2: Annual Approved Value Added Recommendations
District 3**

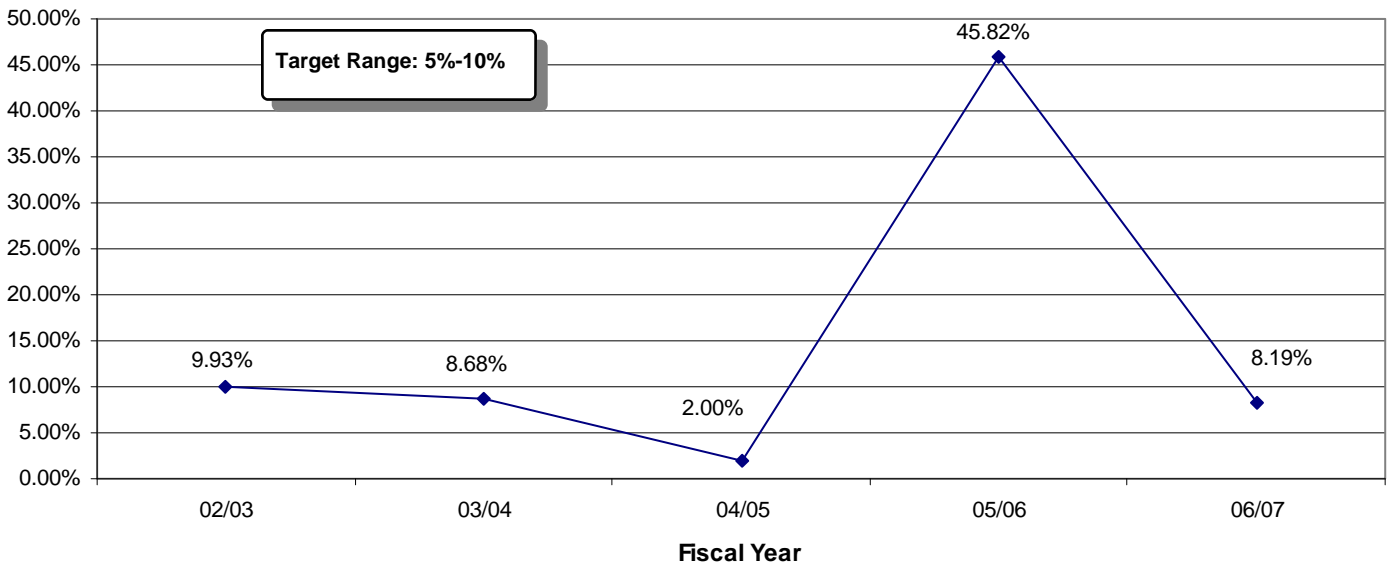


District 3

Q3: Annual Adoption Rate District 3

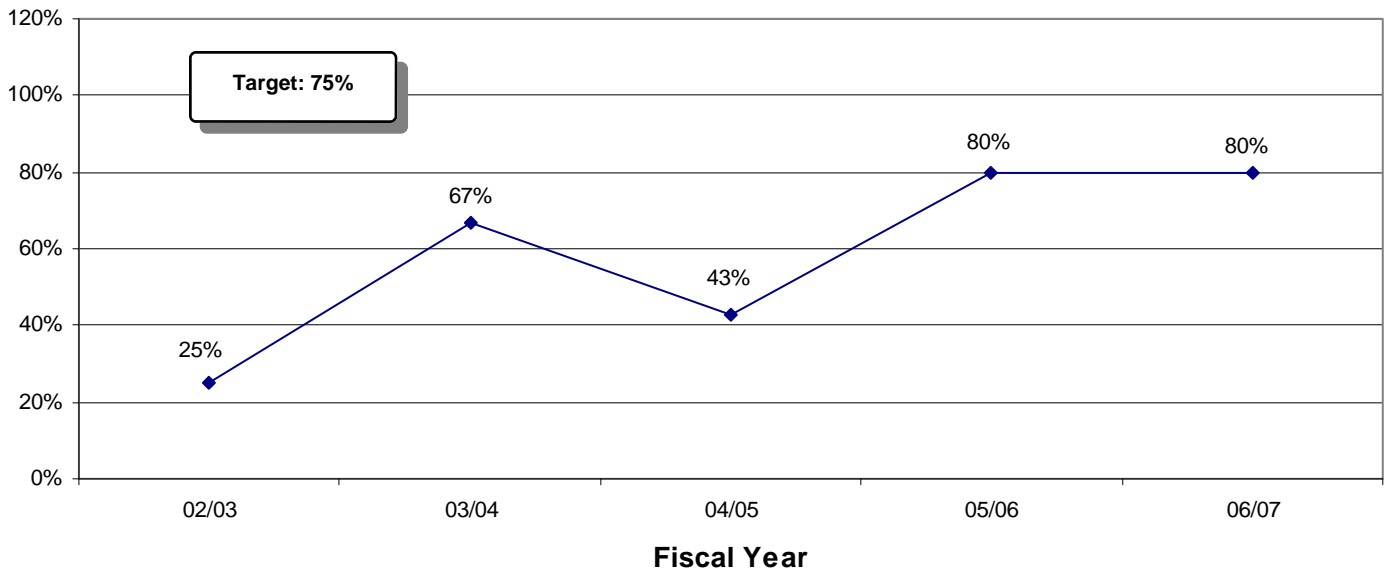


Q4: Annual Percent Project Saved District 3

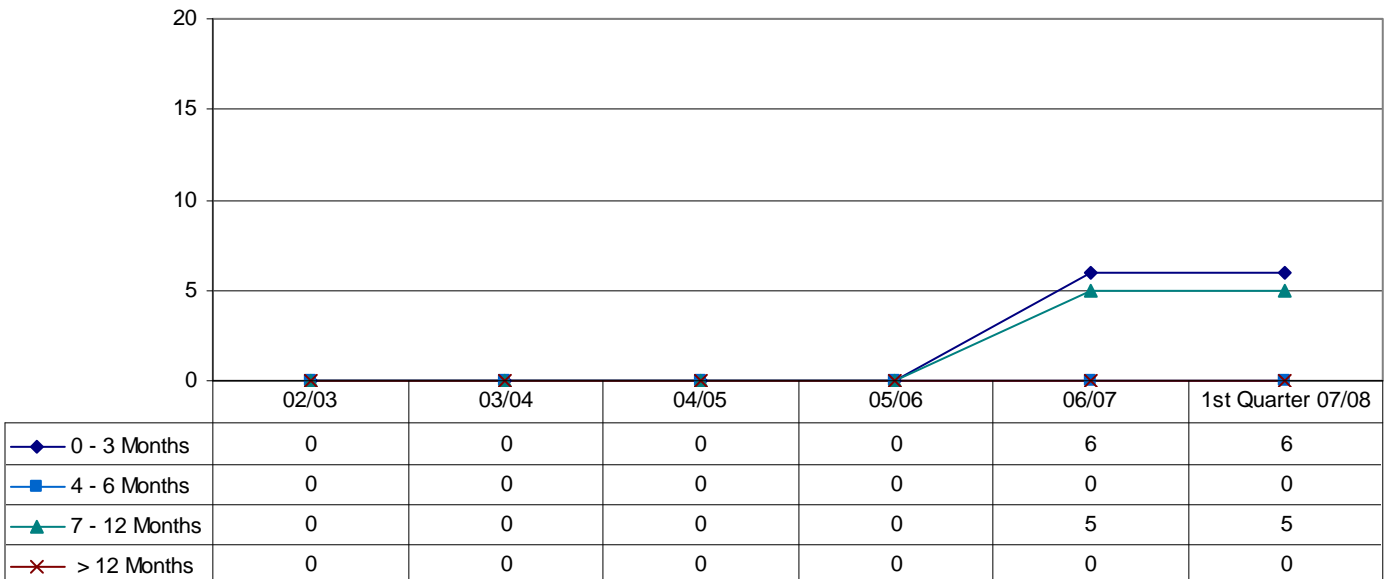


District 3

P1: % Scheduled VE Studies Completed
District 3

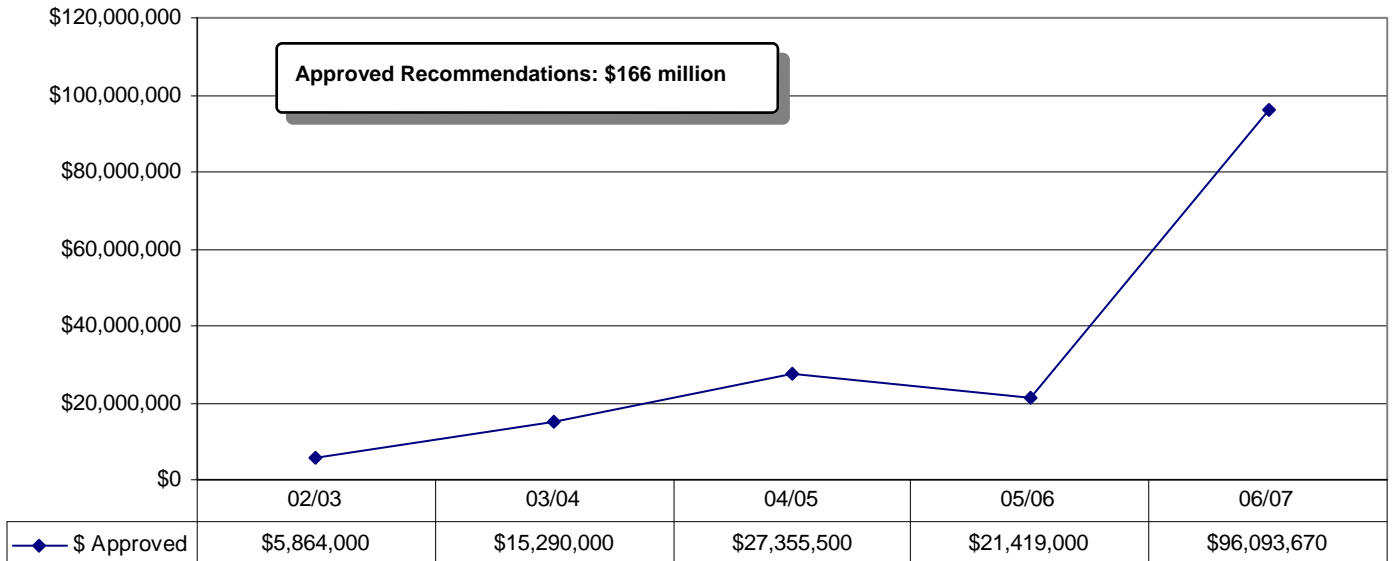


P4: Annual # Pending Recommendations
District 3

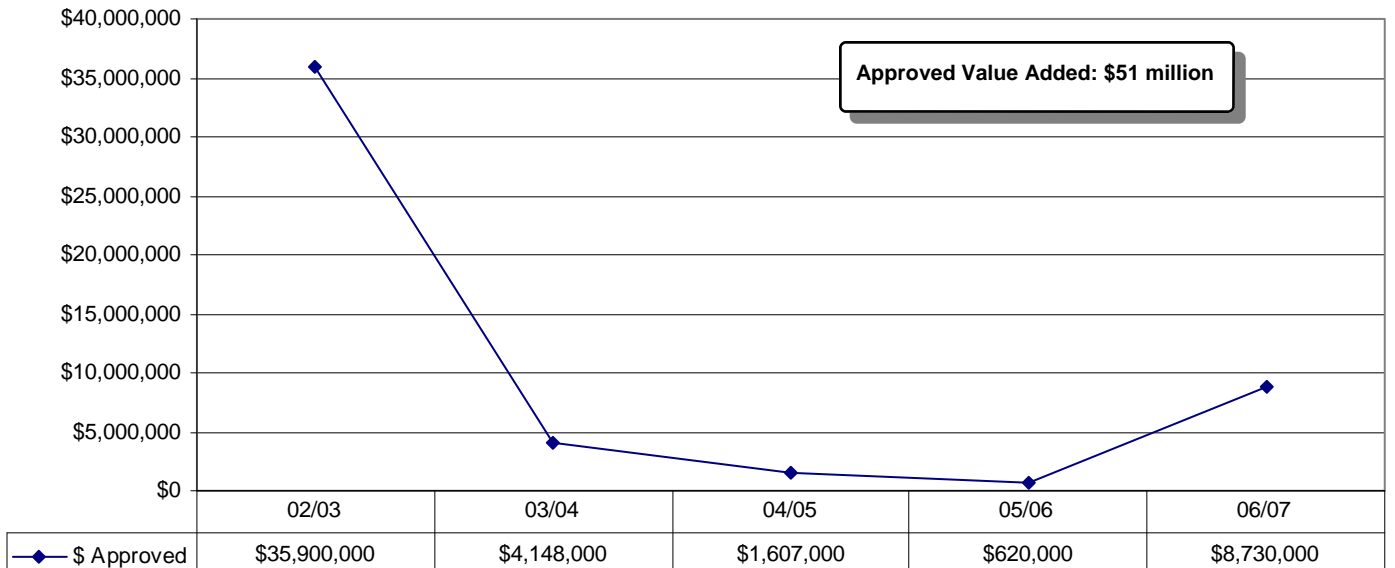


District 4

Q1: Annual Approved Cost Avoidance/Savings
District 4

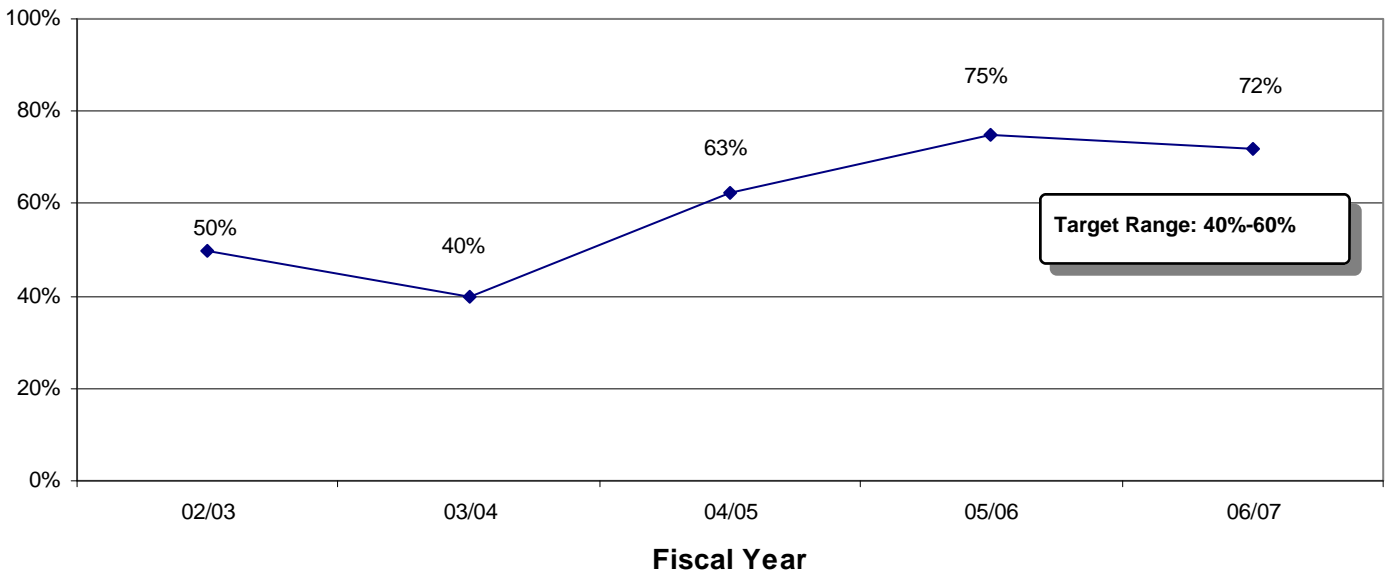


Q2: Annual Approved Value Added Recommendations
District 4

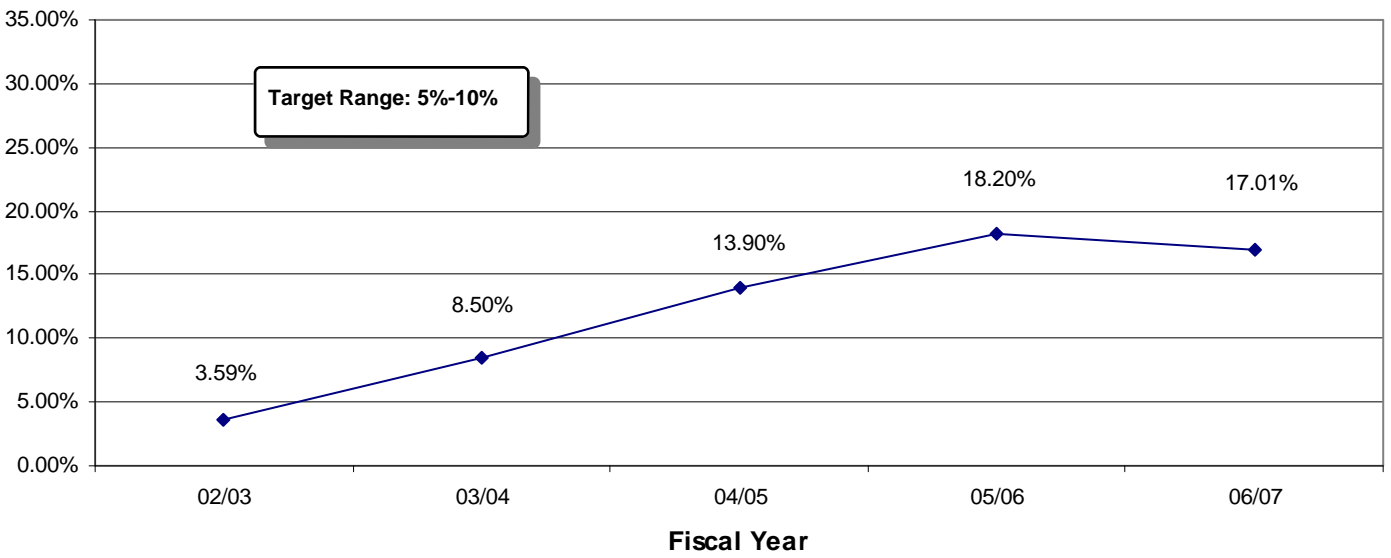


District 4

Q3: Annual Adoption Rate District 4

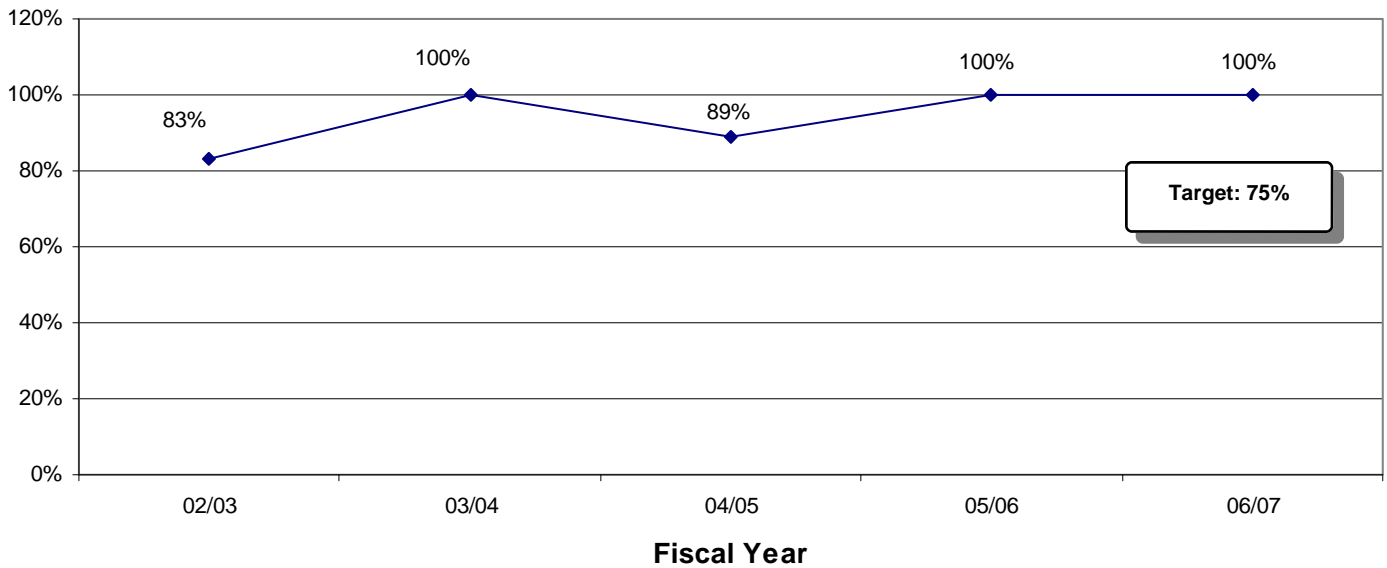


Q4: Annual Percent Project Saved District 4

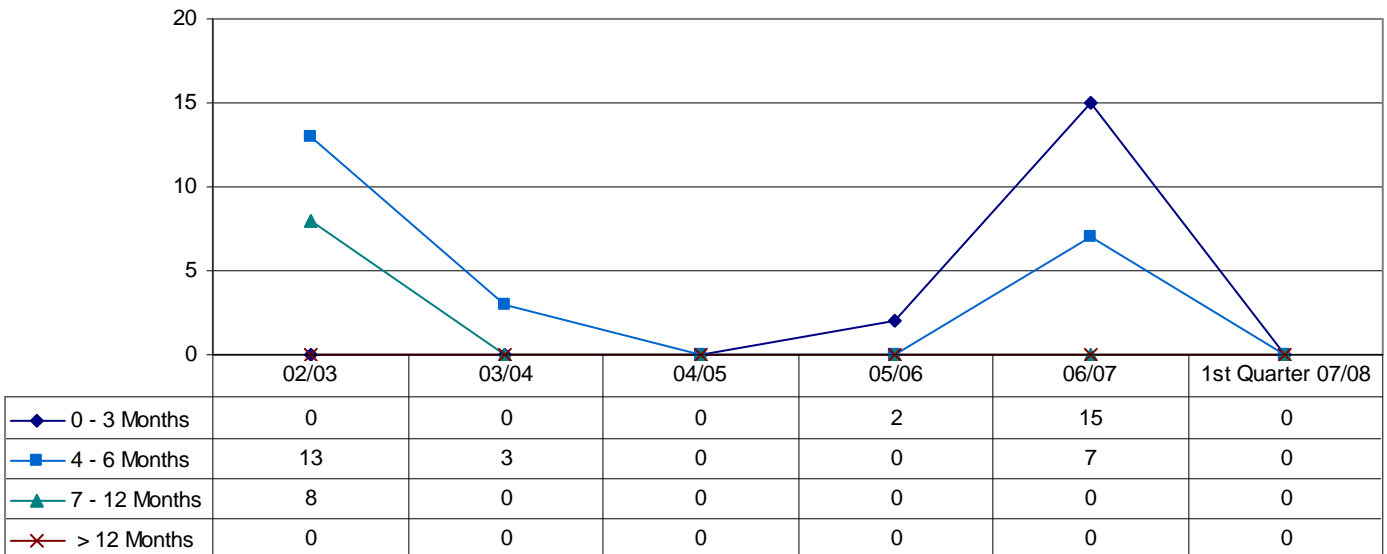


District 4

P1: % Scheduled VE Studies Completed
District 4

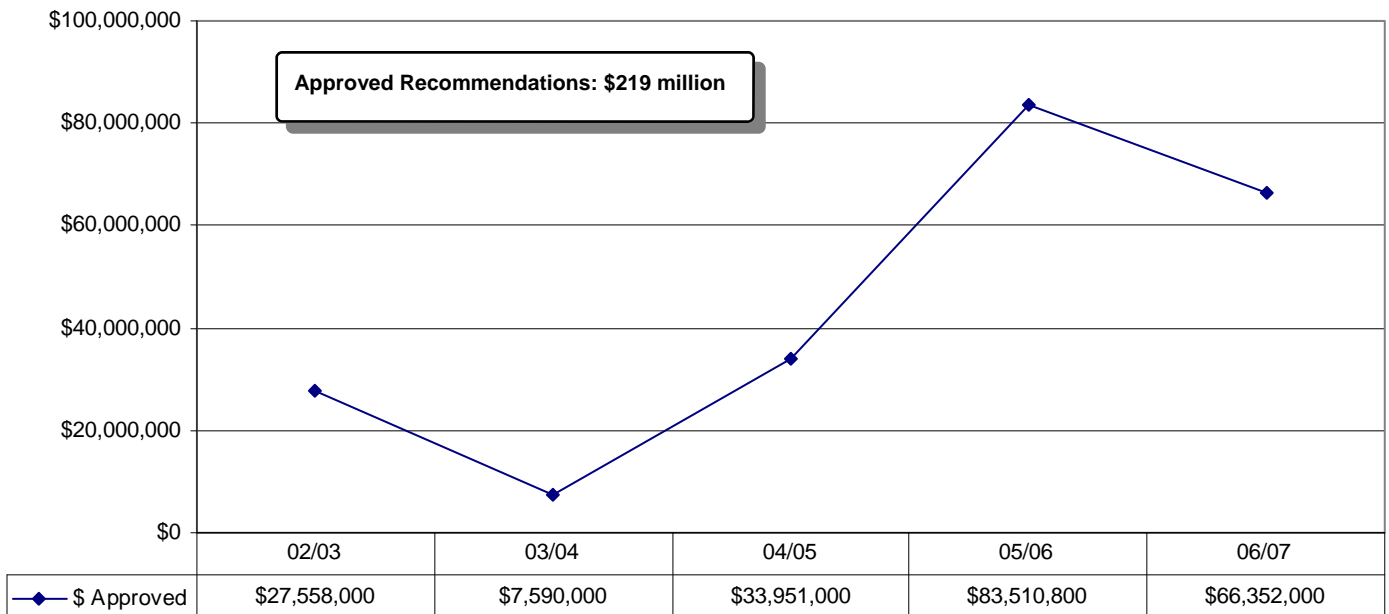


P4: Annual # Pending Recommendations
District 4

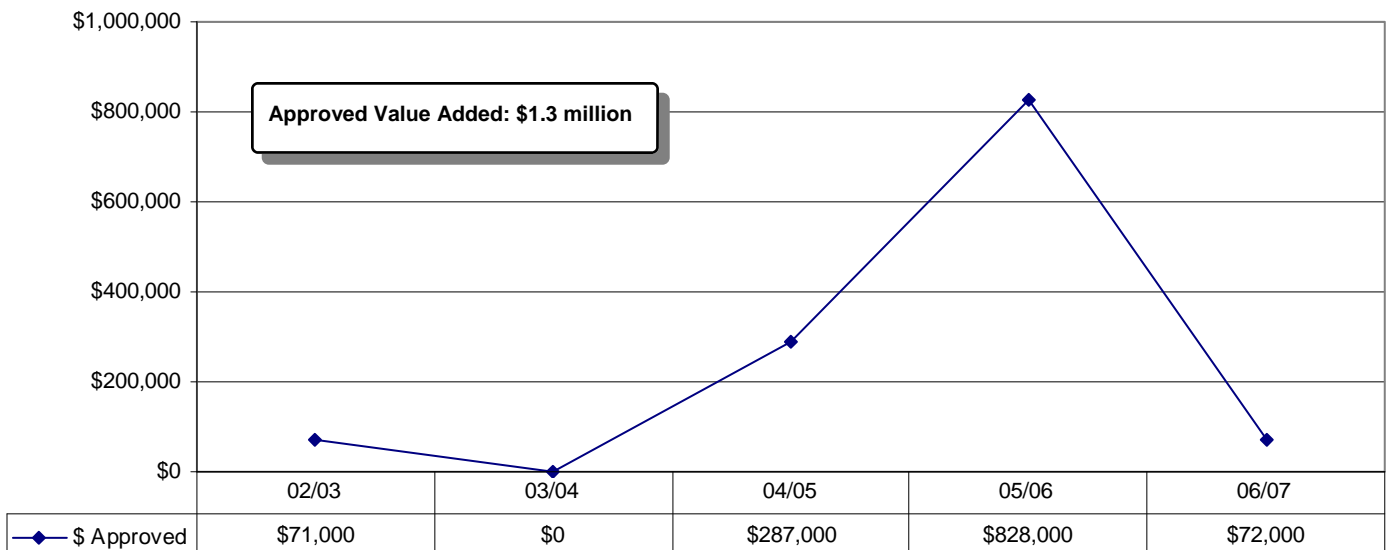


District 5

Q1: Annual Approved Cost Avoidance/Savings
District 5

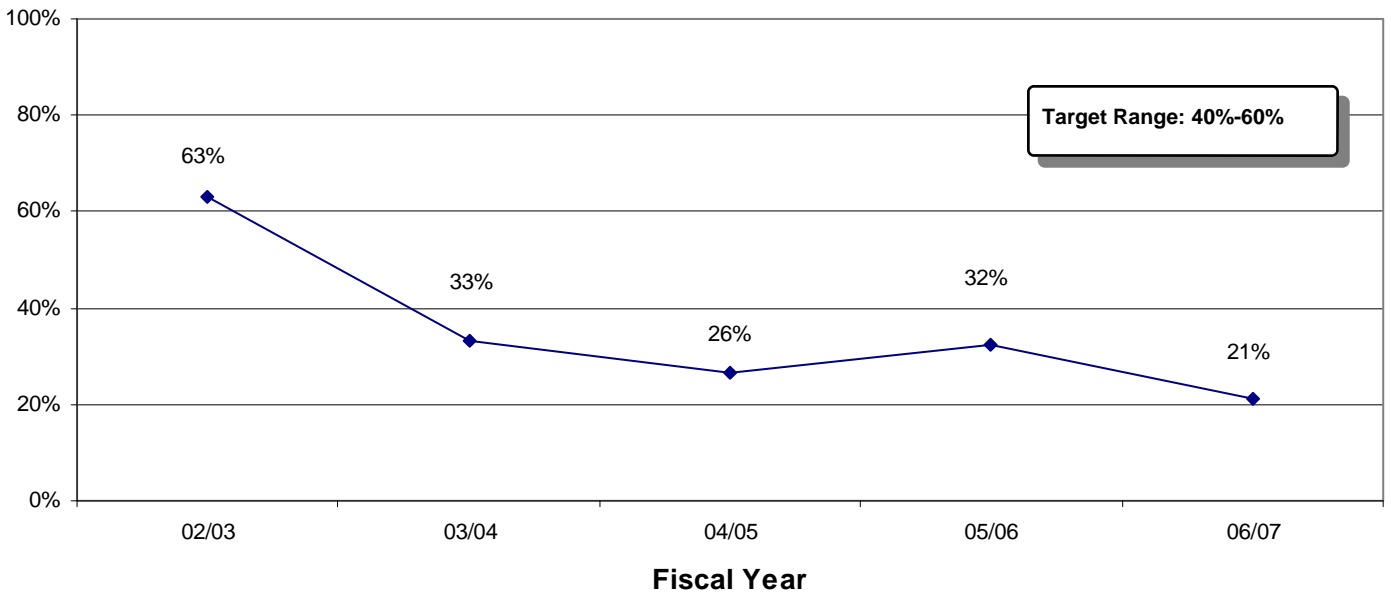


Q2: Annual Approved Value Added Recommendations
District 5

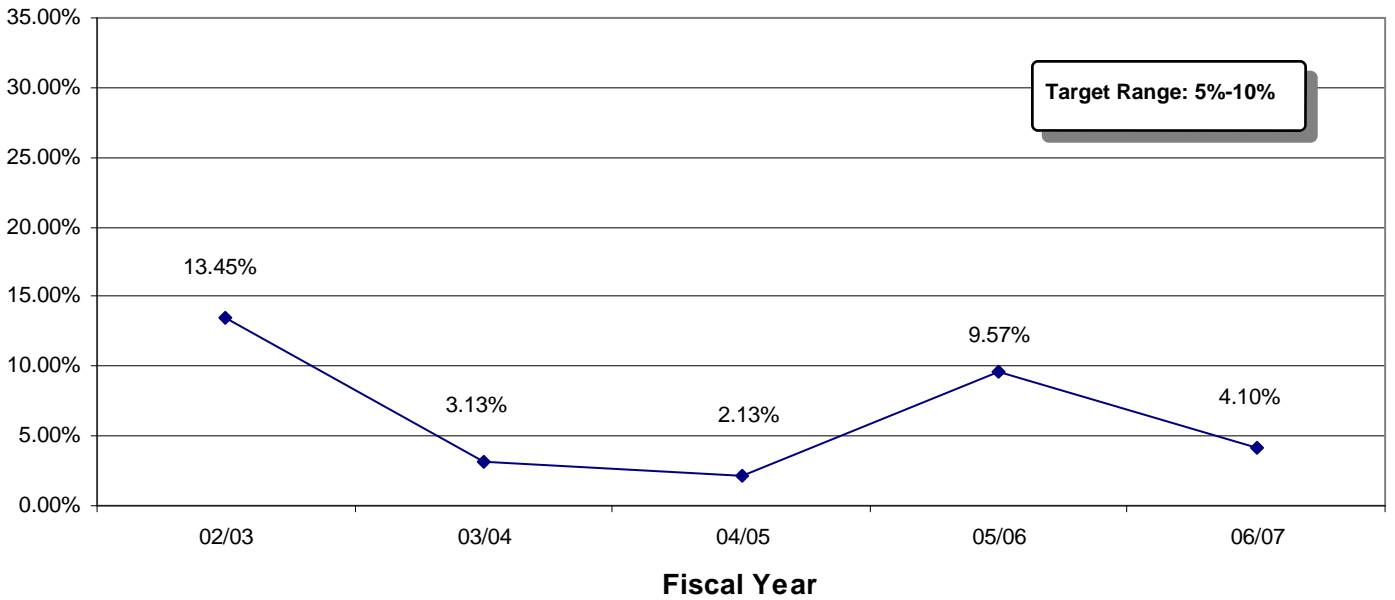


District 5

Q3: Annual Adoption Rate District 5

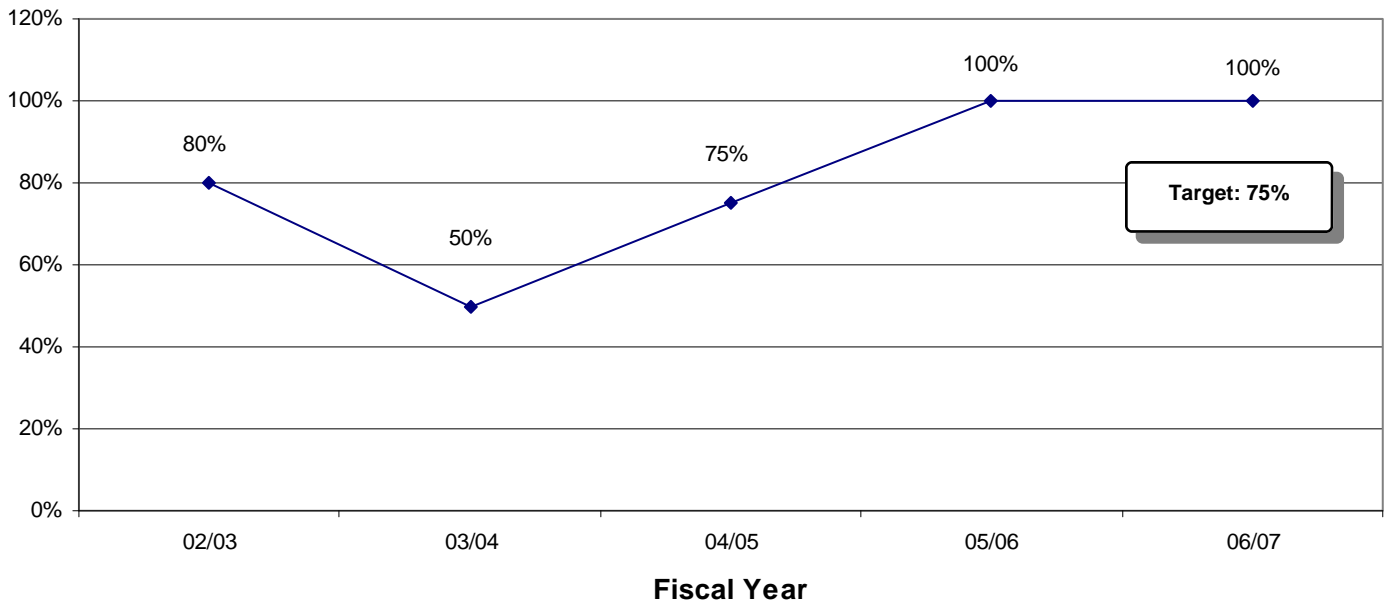


Q4: Annual Percent Project Saved District 5

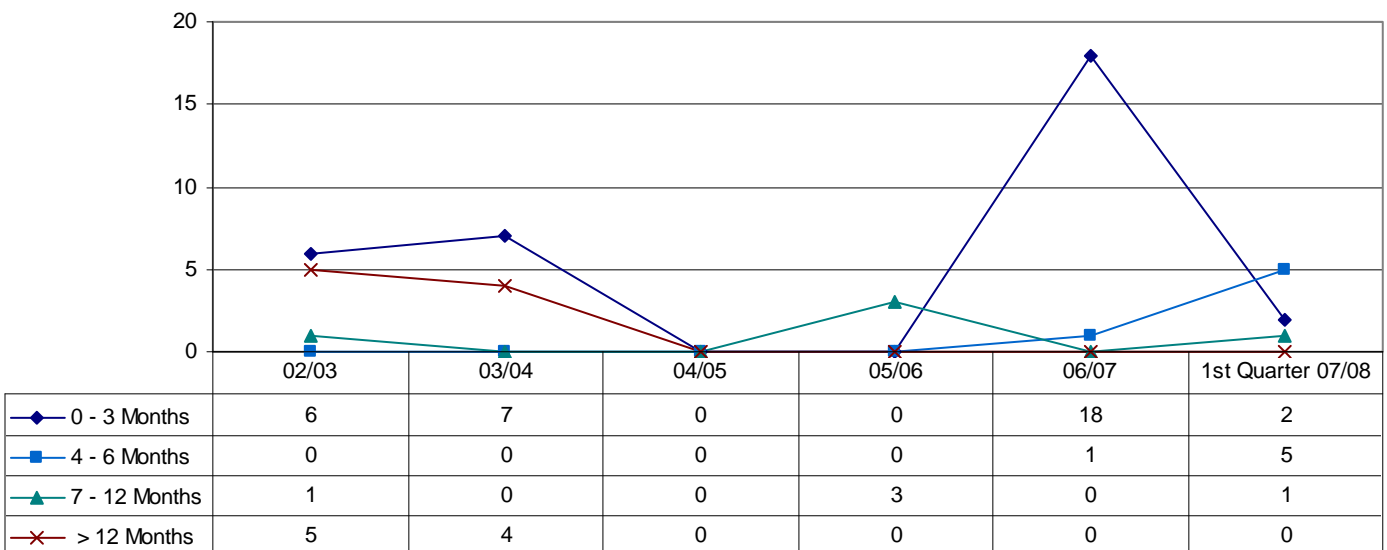


District 5

P1: % Scheduled VE Studies Completed
District 5

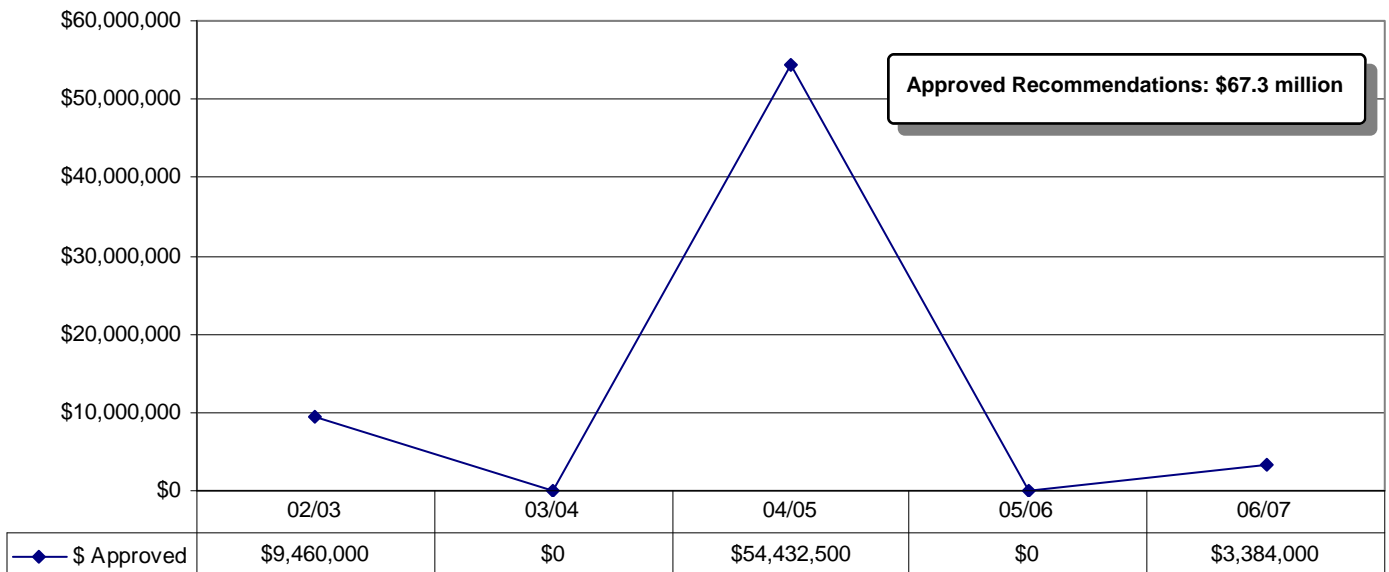


P4: Annual # Pending Recommendations
District 5

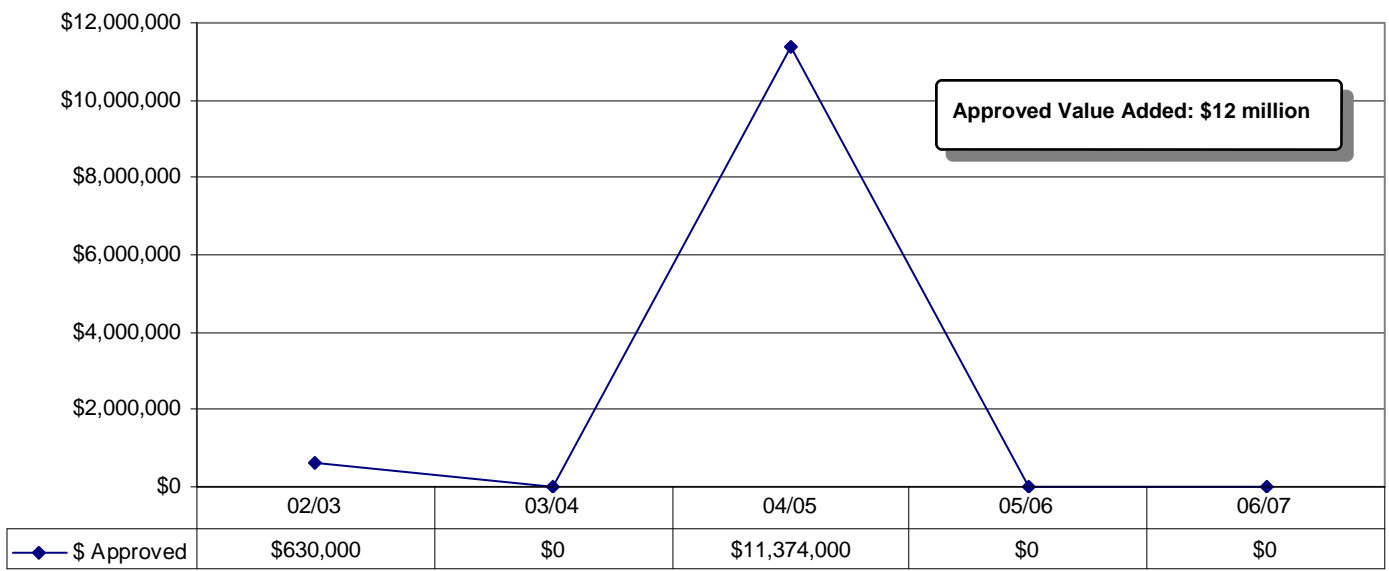


District 6

**Q1: Annual Approved Cost Avoidance/Savings
District 6**

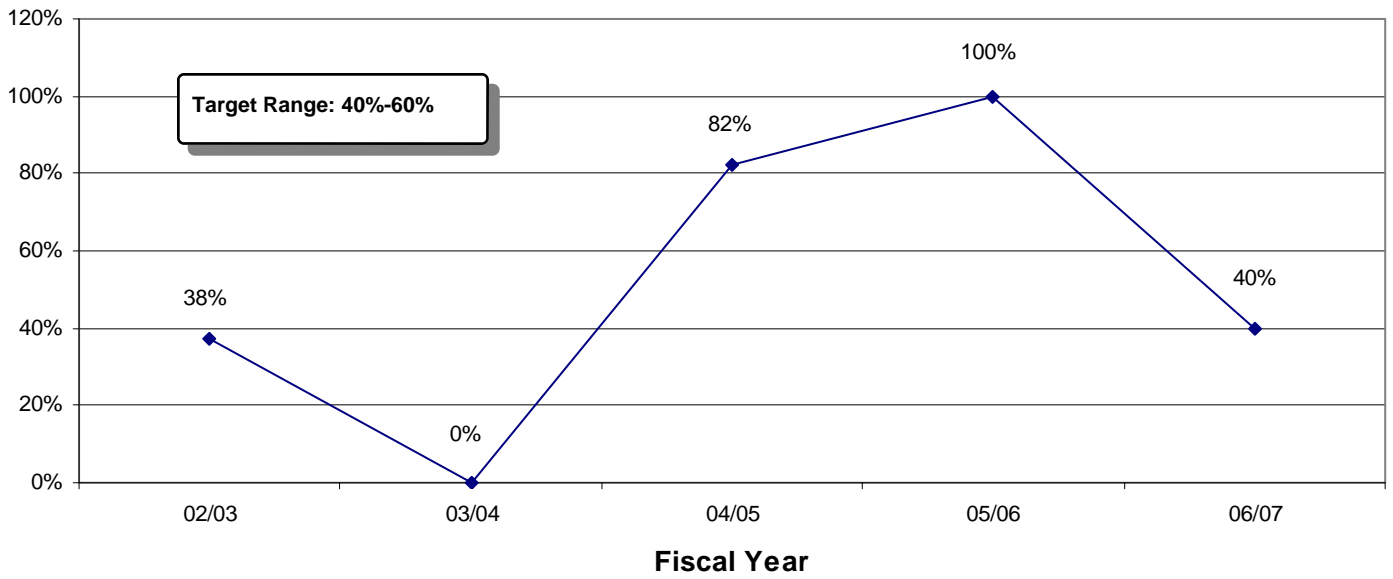


**Q2: Annual Approved Value Added Recommendations
District 6**

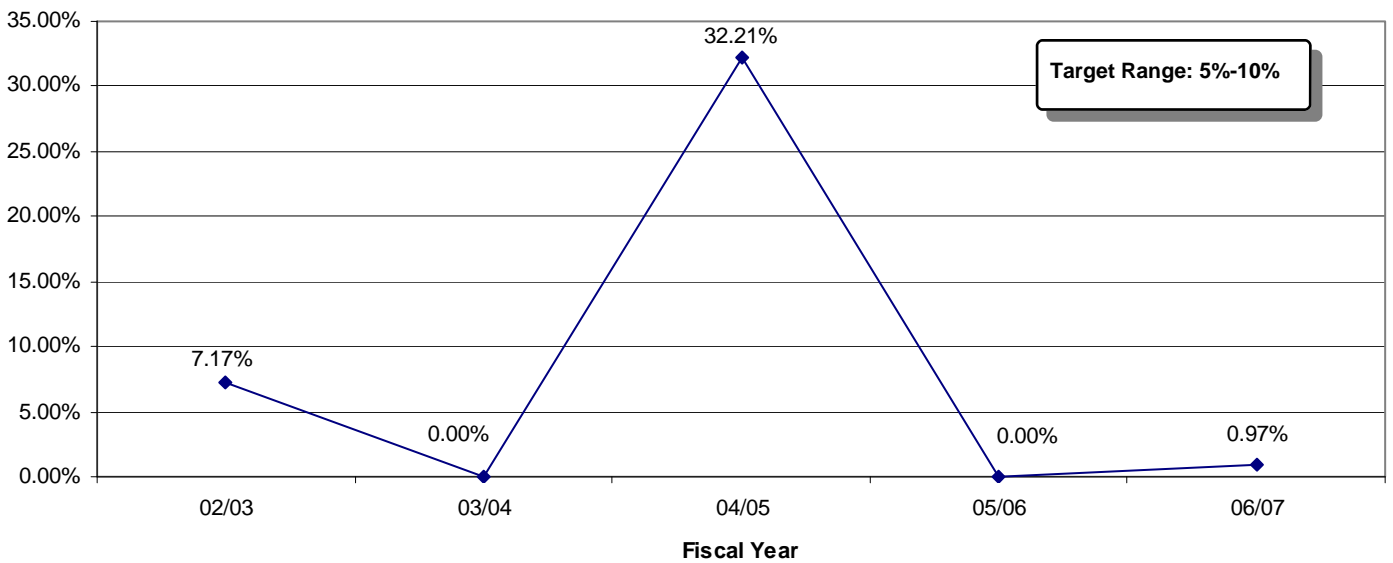


District 6

Q3: Annual Adoption Rate District 6

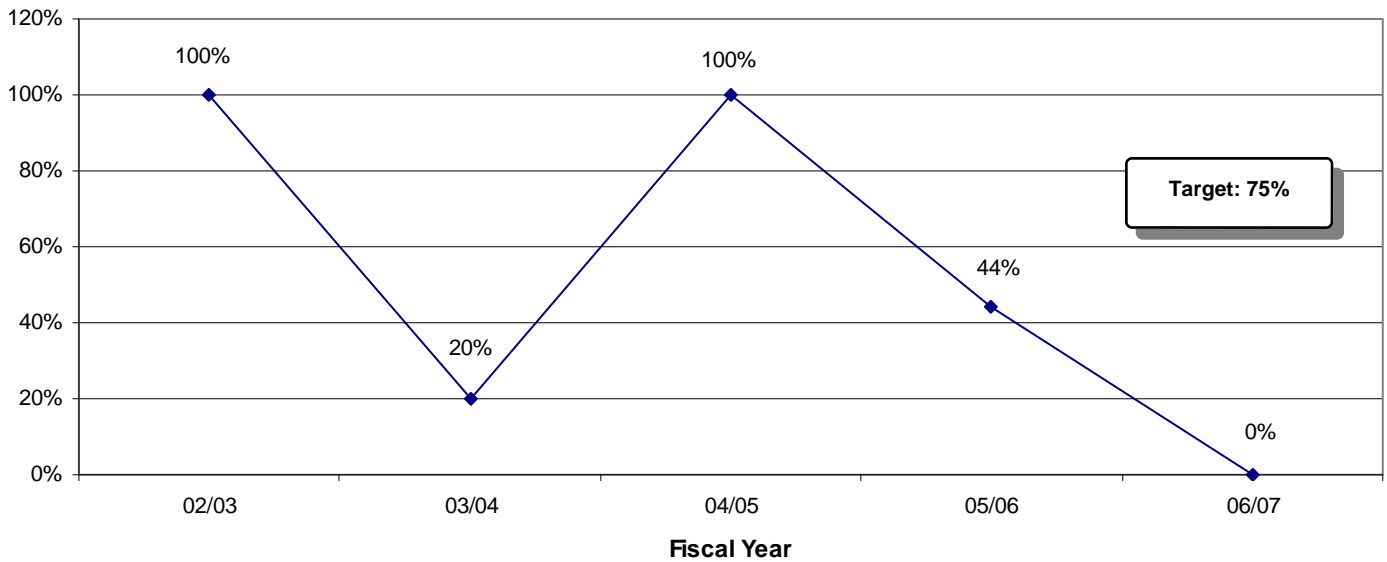


Q4: Annual Percent Project Saved District 6

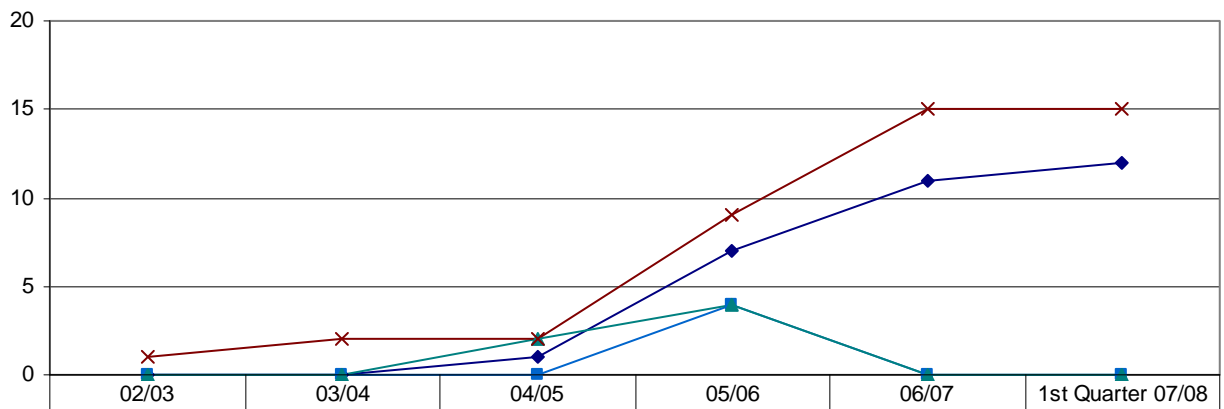


District 6

**P1: % Scheduled VE Studies Completed
District 6**



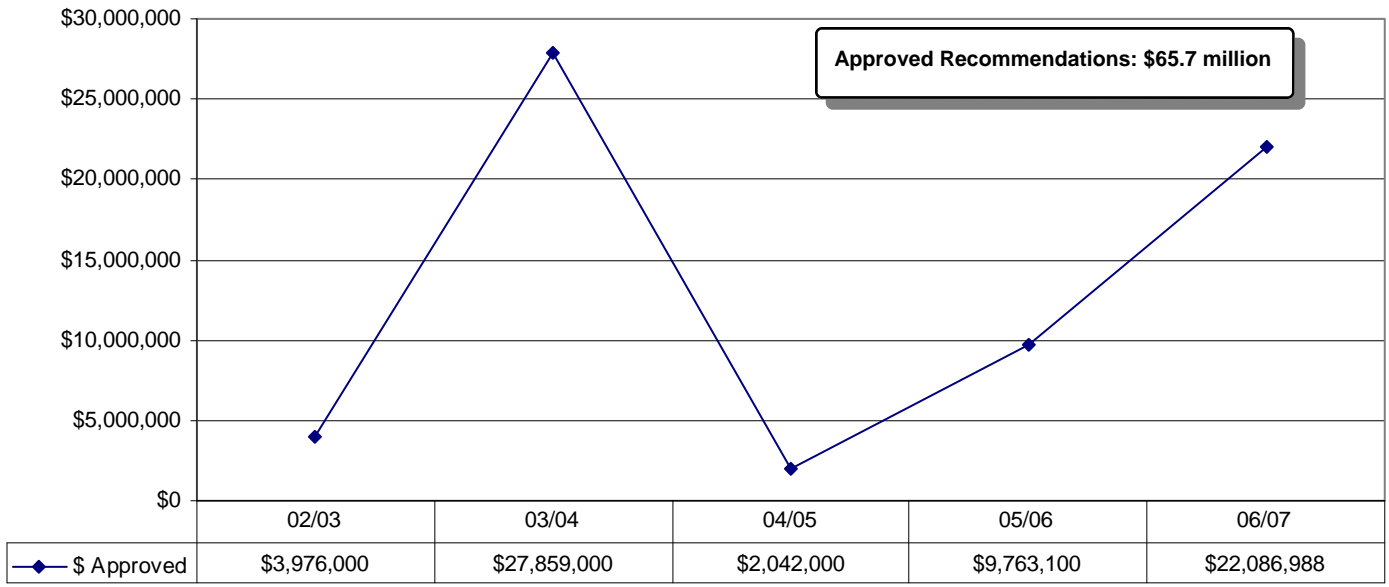
**P4: Annual # Pending Recommendations
District 6**



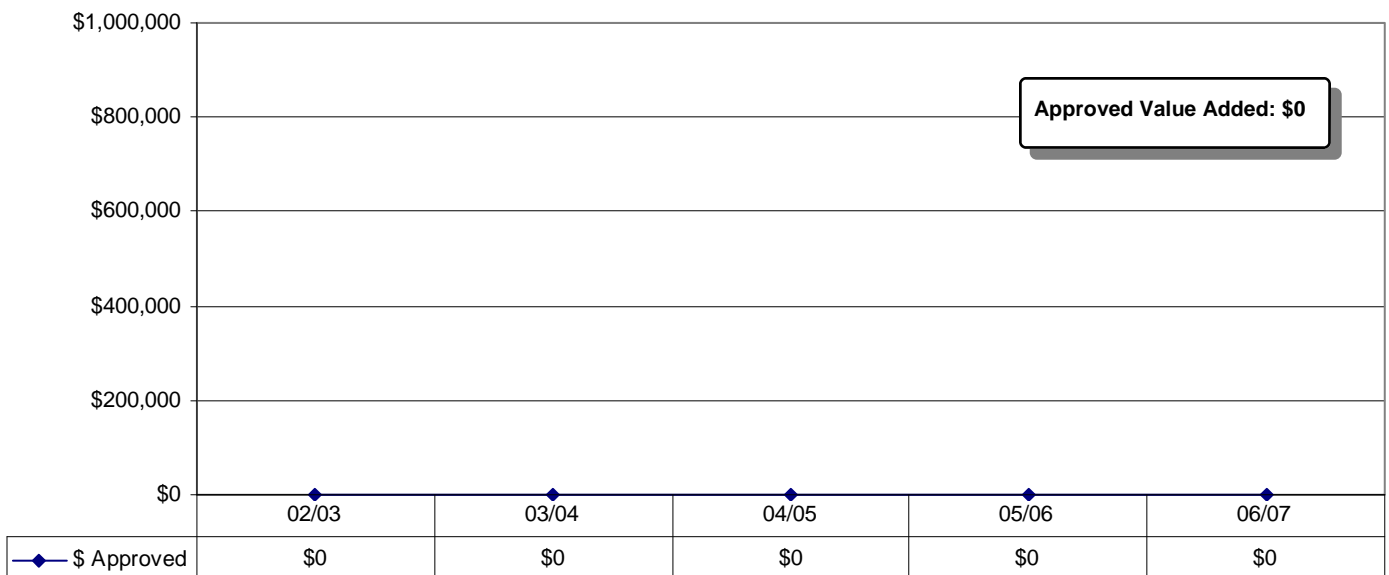
	02/03	03/04	04/05	05/06	06/07	1st Quarter 07/08
0 - 3 Months	0	0	1	7	11	12
4 - 6 Months	0	0	0	4	0	0
7 - 12 Months	0	0	2	4	0	0
> 12 Months	1	2	2	9	15	15

District 7

Q1: Annual Approved Cost Avoidance/Savings
District 7

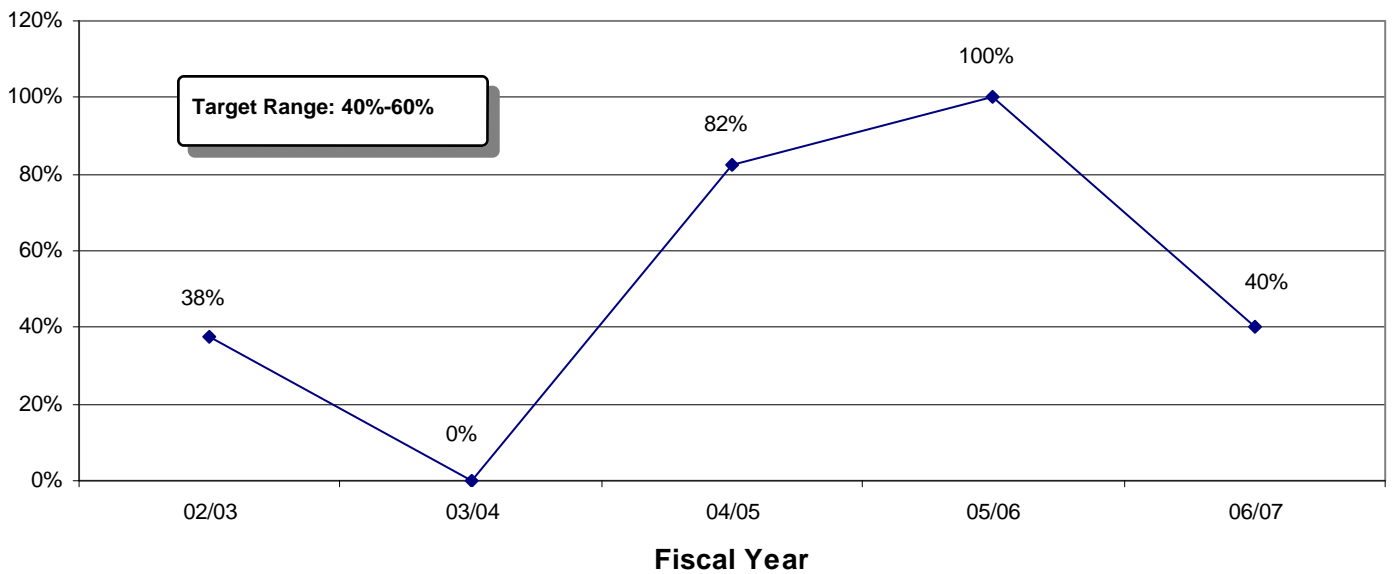


Q2: Annual Approved Value Added Recommendations
District 7

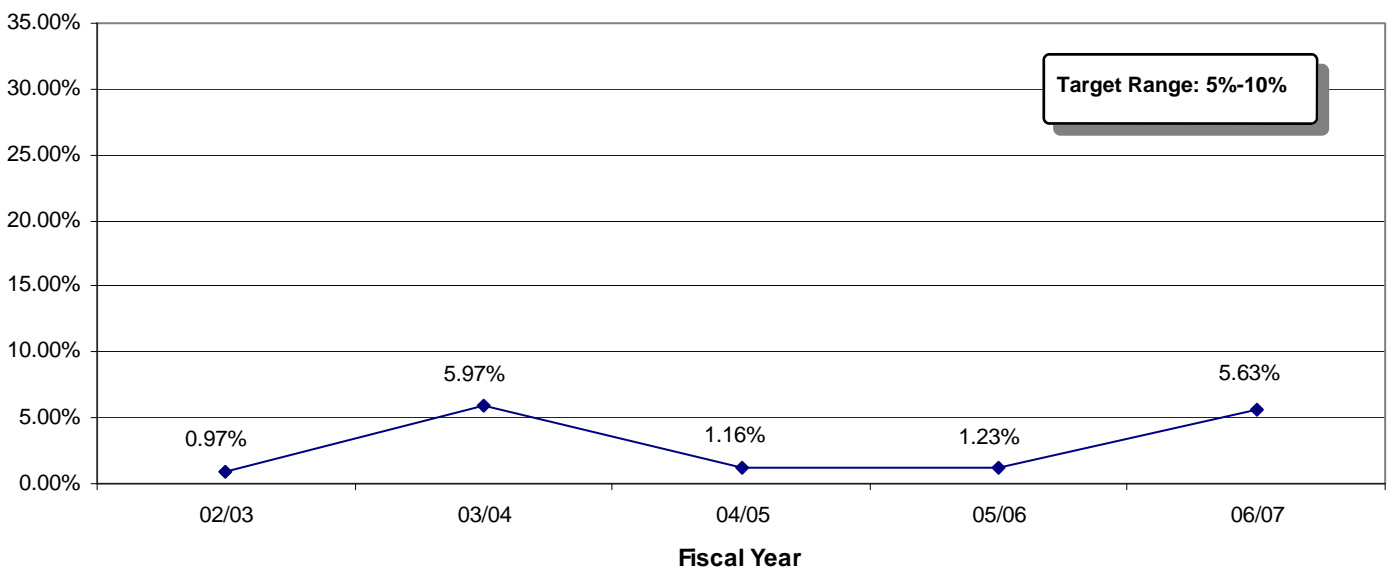


District 7

Q3: Annual Adoption Rate District 7

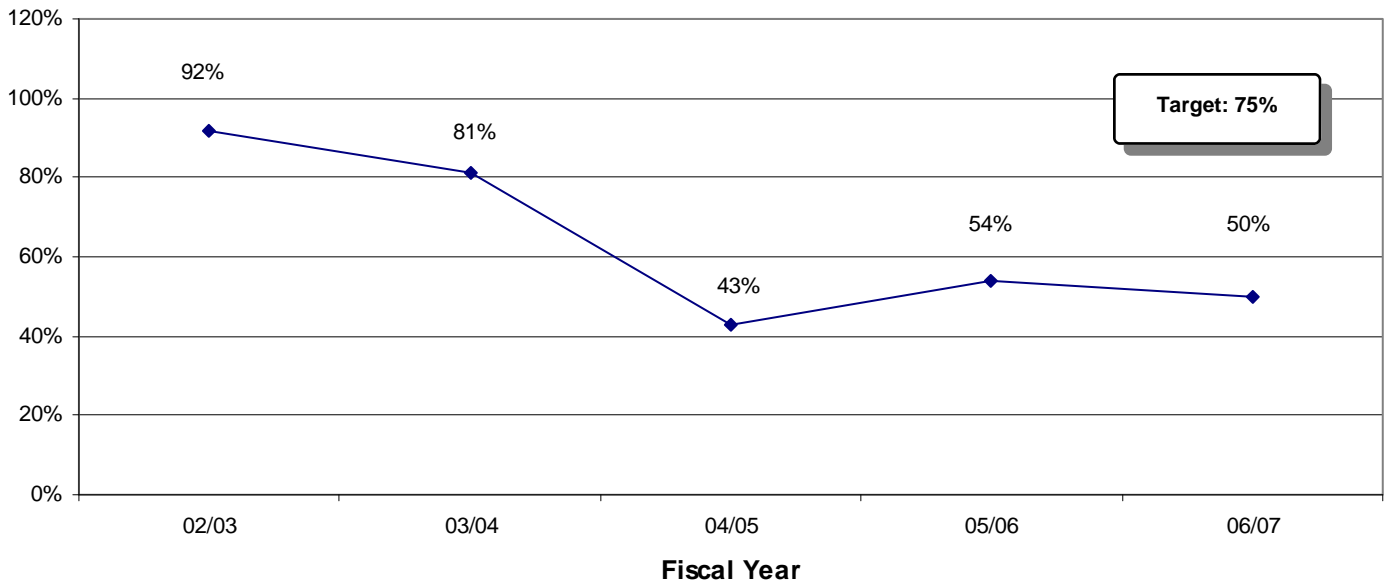


Q4: Annual Percent Project Saved District 7

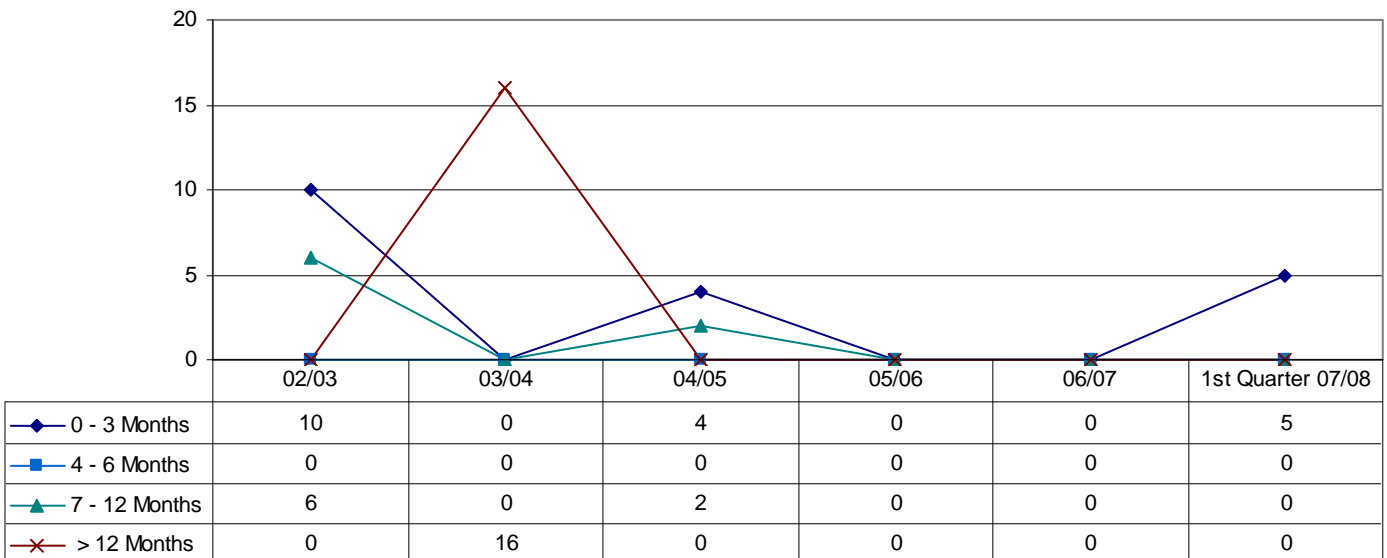


District 7

P1: % Scheduled VE Studies Completed
District 7

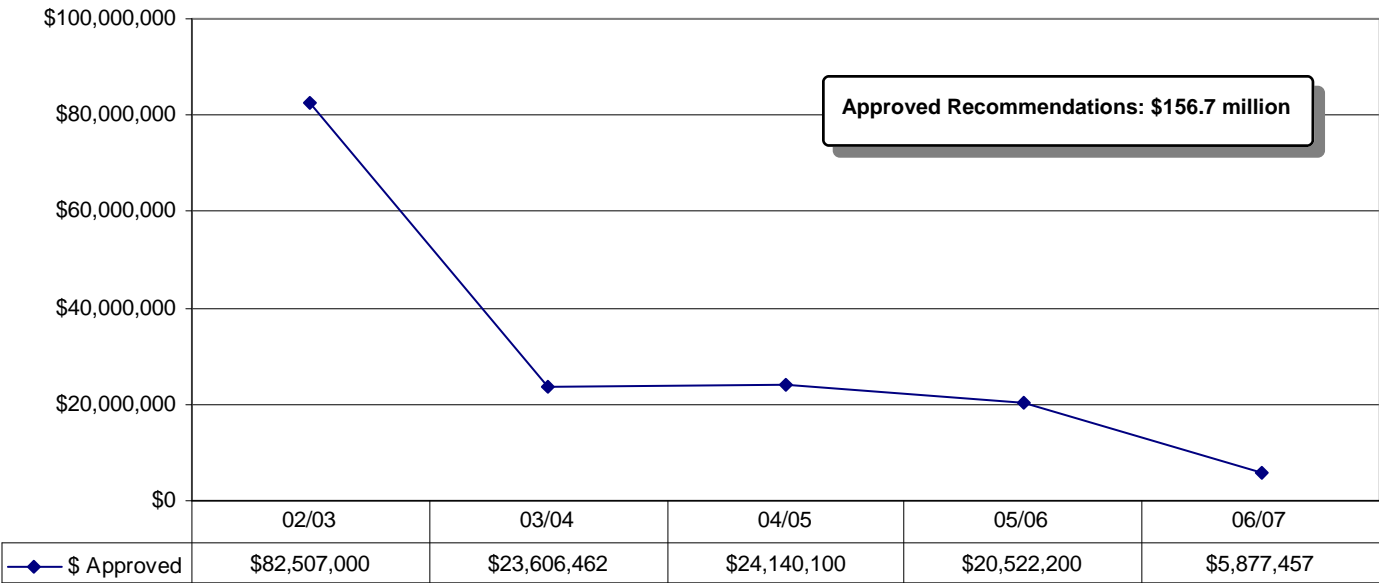


P4: Annual # Pending Recommendations
District 7

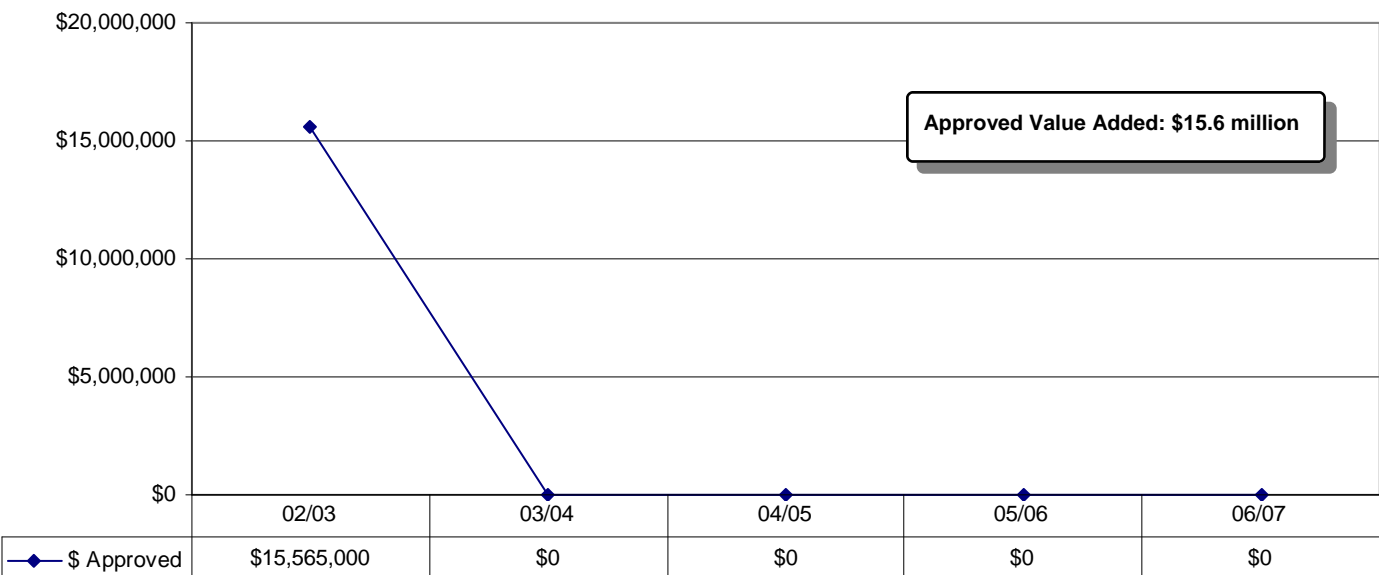


Turnpike

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

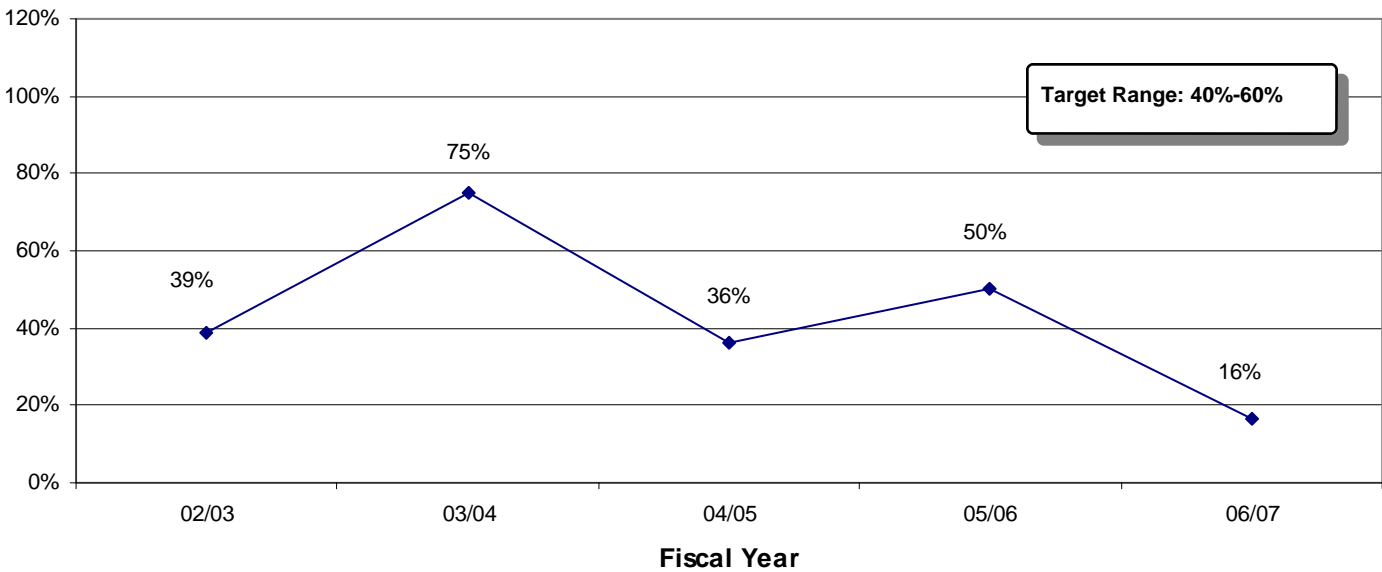


**Q2: Annual Approved Value Added Recommendations
Turnpike**

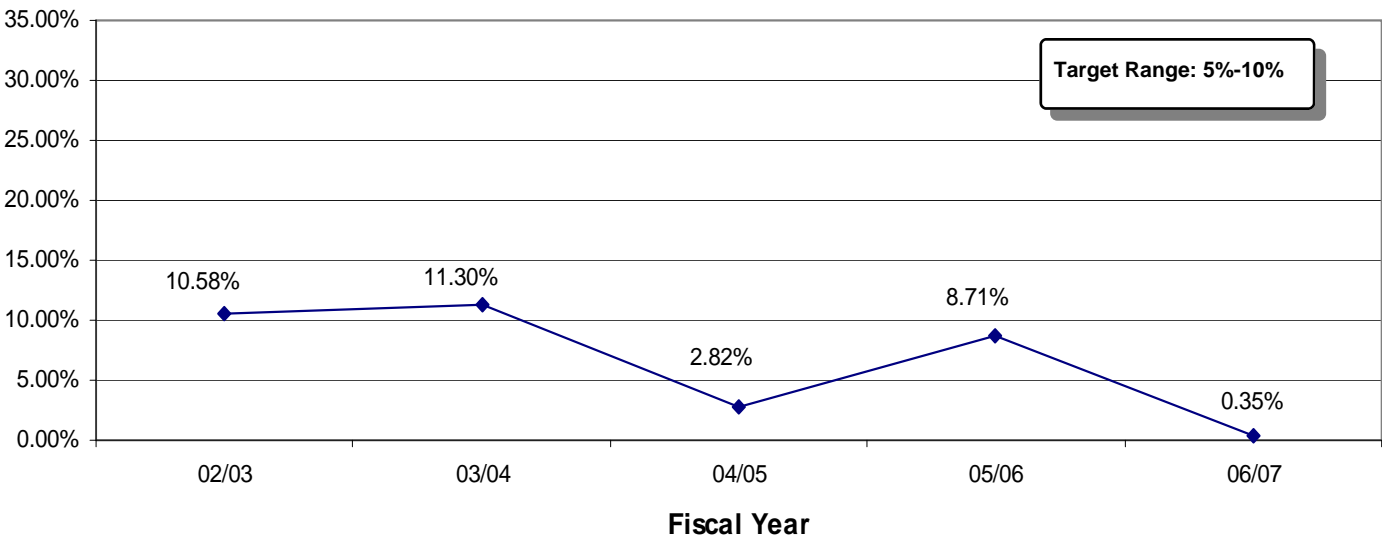


Turnpike

Q3: Annual Adoption Rate Turnpike

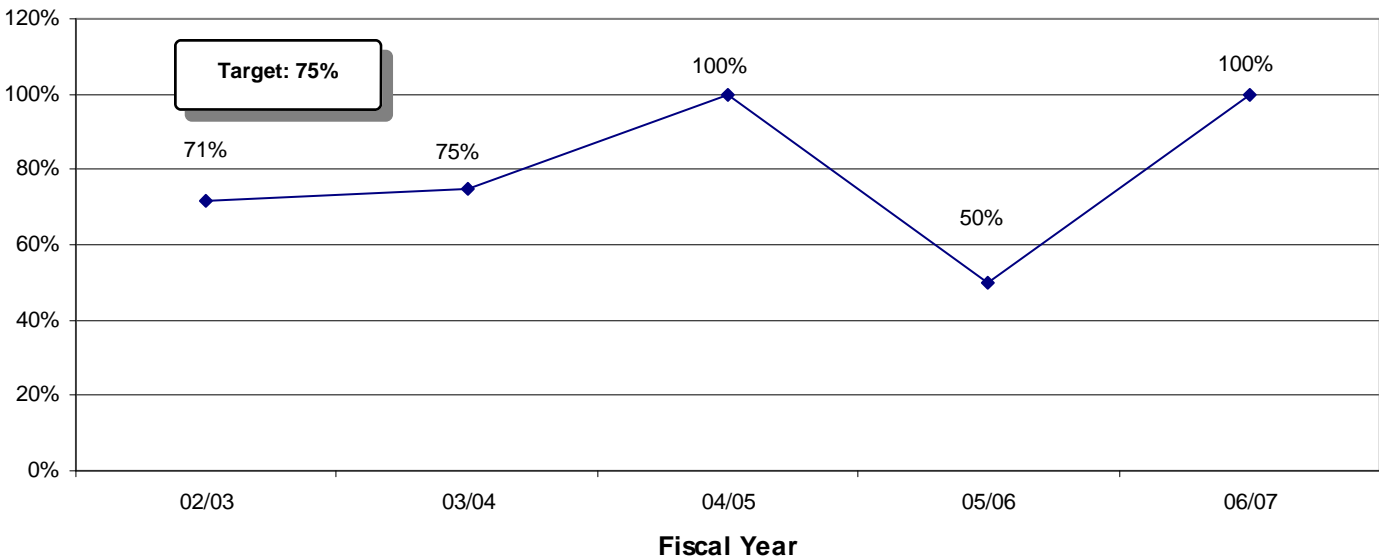


Q4: Annual Percent Project Saved Turnpike

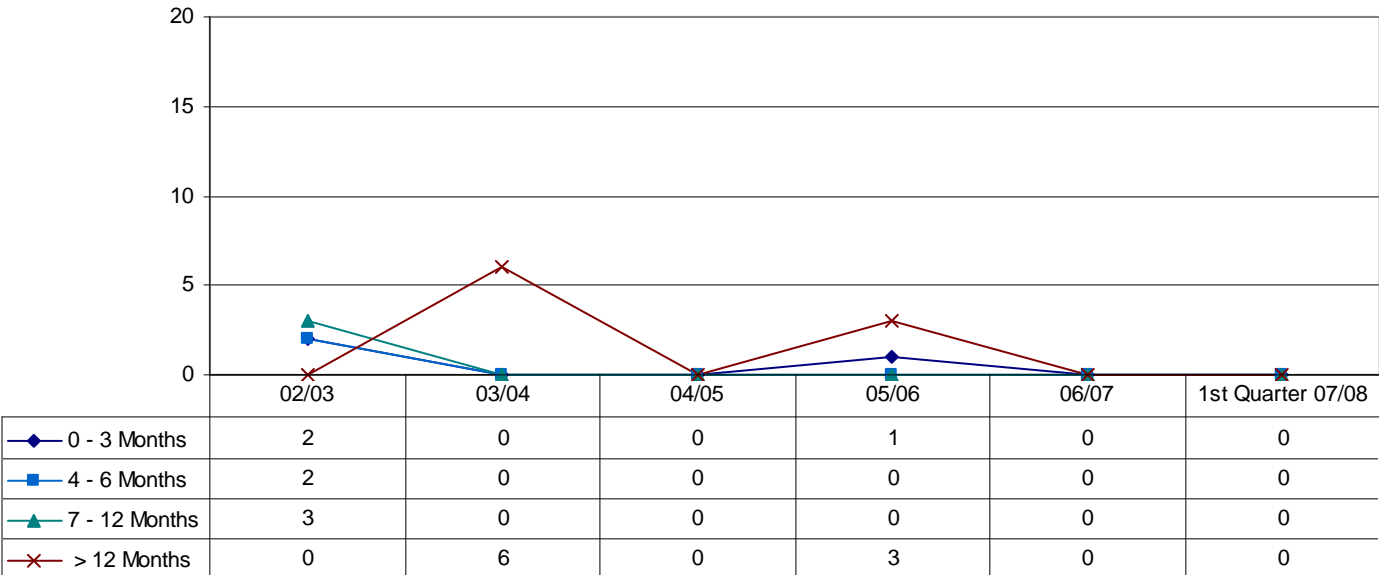


Turnpike

**P1: % Scheduled VE Studies Completed
Turnpike**



**P4: Annual # Pending Recommendations
Turnpike**



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				
Step / Time	Dept / Person	DISTRICT VALUE ENGINEER	VALUE ENGINEERING TEAM	STATE VALUE ENGINEER	Process Measures	Control Limits	Checking Item	Timeframe (Frequency)	Responsibility	Date of Last Review	QAR	
PROJECT SELECTION						P1: % scheduled studies completed P2: # projects > \$25 million never studied P3: % projects studied in PUBE P4: # of pending rec. per time perio	75% 0 75%	VER & Work Plan Work Program VER VER	Quarterly Annual Quarterly Quarterly	SVE SVE SVE SVE	D1: 11/2006 C D2: 12/2006 C D3: 12/2006 C D4: 5/2007 C D5: 1/2007 C D6: 5/2007 C D7: 1/2006 C TPK: 1/2007 C	Federal Regulation 23 CFR 627 VE Procedure 625-030-002 1989 AASHTO Guidelines for VE NCHRP Synthesis 352 - Value Engineering Applications in Transportation
TEAM SELECTION												
STUDY												
RESOLUTION												
REPORTING												

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

Process Control System

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 on the NHS system with estimated total costs > \$25 million have a VE analysis
Inputs: Projects Supplier(s): Work Program	Flow Chart				Miscellaneous Information
Dept/Person Step / Time	DISTRICT VALUE ENGINEER	DISTRICT MANAGEMENT	STATE VALUE ENGINEER		
NEED	<pre> graph TD Start([Develop VE Work Plan]) --> Review[Review projects in production pipe line.] Review --> Cost{project costs > \$25 million?} Cost -- YES --> Fiscal{VE window in this fiscal year?} Cost -- NO --> Candidate{project a quality candidate?} Candidate -- YES --> Fiscal Candidate -- NO --> Review Fiscal -- YES --> Add[Add project to Candidate List] Fiscal -- NO --> Review Add --> Reviewed{all projects been reviewed?} Reviewed -- YES --> Develop[Develop Work Plan] Reviewed -- NO --> Review Develop --> Submit[Submit work plan approval] Submit --> Acceptable{is work plan acceptable?} Acceptable -- YES --> Approve[Approve work plan and return to DVE] Acceptable -- NO --> Review Approve --> Send[Send copy of plan to SVE] Send --> Execute([Execute work plan]) Execute --> Publish[Compile plans and publish on Web] Publish --> Send </pre>				
DEVELOP					
APPROVAL					
DISTRIBUTE					
EXECUTE					
		Process and Quality Indicators		Checking / Indicator Monitoring	
		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)		Checking Item: What is to be checked? Response: Who will check?	
		Control Limits: 100% Specs/Targets: 75%, 0, 60%		Timeframe (Frequency): Annual, Quarterly, Annual, Quarterly Date of Last Review: D1: 11/2006, D2: 12/2006, D3: 12/2006, D4: 5/2007, D5: 1/2007, D6: 5/2007, D7: 1/2006, TPK: 1/2007	
				CODES: C- Compliance NC- Noncompliant BP Best Practice	

Approved: _____ Date: _____ Process Owner: District Value Engineer Rev #: 1.5 Rev Date: 8/2007

Process Control System

<p>Process Name: Value Engineering Team Selection</p> <p>Product/Service: Team with the necessary skills and experience to conduct a value engineering analysis</p> <p>Primary Customers: Team Leaders & Team Members Partner: FHWA & Project Manager</p>	<p>Valid Requirements(s): Team makeup has the required disciplines, leadership skills and VE experience to study the selected project.</p> <p>Regulator's Valid Requirement(s): Multi-disciplined team of individuals not personally involved in the design of the project</p>																																																																														
<p>Input(s): Project disciplines Supplier(s): Department Heads, Consultants</p>	<h2>Flow Chart</h2>	<p>Process and Quality Indicators</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Process Indicators and Quality Indicators</th> <th>Control Limits Specs/Targets</th> <th>Checking Item</th> <th>Timeframe (Frequency)</th> <th>Responsibility</th> <th>QAR</th> <th>Miscellaneous Information</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> <td>Federal Regulation 23 CFR 627</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> <td>VE Procedure 625-030-002 AASHTO Guidelines for VE</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> <td>NCHRP Synthesis 352 - Value Engineering Applications in Transportation</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D4: 5/2007 C</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D5: 1/2007 C</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D6: 5/2007 C</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D7: 11/2006 C</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TPK: 12/2007 C</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>CODES:</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C-Compliance NC- Noncompliant BP Best Practice</td> </tr> </tbody> </table>	Process Indicators and Quality Indicators	Control Limits Specs/Targets	Checking Item	Timeframe (Frequency)	Responsibility	QAR	Miscellaneous Information	Q1: # of teams missing required disciplines	0	VER & VE Study Report	Annual	SVE	D1: 11/2006 C	Federal Regulation 23 CFR 627	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	VE Procedure 625-030-002 AASHTO Guidelines for VE	Q3: # of team leaders not meeting qualifications	0	VER, VE study report, SAVE, FLPE, TRESS	Annual	SVE	D3: 12/2006 C	NCHRP Synthesis 352 - Value Engineering Applications in Transportation						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
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<p>Step / Time</p> <p style="text-align: center;">NEED</p> <p style="text-align: center;">CONSULTANT REQUESTS</p> <p style="text-align: center;">TEAM SELECTION</p> <p style="text-align: center;">NOTIFICATION</p>	<p>Approved: _____ Date: _____</p> <p style="text-align: right;">Process Owner: District Value Engineer Rev #: 1.5 Rev Date: 8/2007</p>																																																																														

Process Control System

Process Name: Conduct Value Engineering Study		Product/Service: Completed VE Analysis with a report documenting the findings of the team.		Primary Customers: Management & DVE. Partners: FHWA, State Value Engineer		Regulator's Valid Requirement(s): Follow the VE Job Plan to produce quality recommendations that can be implemented.		Regulator's Valid Requirement(s): Follow widely recognized systematic problem solving process that is used throughout private industry and government agencies.			
Inputs: Project Information Supplier(s): Project Manager		Flow Chart									
DISTRICT VALUE ENGINEER		VALUE ENGINEERING TEAM									
Dept/ Person	Step / Time	<pre> graph TD subgraph Investigation_Phase [Investigation Phase] I1[Conduct VE Study] --> I2[Investigation Phase: Gather information about the present design from engineering reports, design plans, estimates, alternatives, right of way maps etc. Gather information about project from Project Manager, Designer and anyone else familiar with the project.] end subgraph Analysis_Phase [Analysis Phase] A1[Analysis Phase: Team identifies the elements with the greatest potential for value improvement.] end subgraph Speculation_Phase [Speculation Phase] S1[Speculation Phase: Team generates alternatives to the proposed design by using brainstorming techniques.] end subgraph Evaluation_Phase [Evaluation Phase] E1[Evaluation Phase: Team evaluates the alternatives and determines which offer the greatest potential for savings and approval. Advantages and disadvantages are considered at this point.] end subgraph Development_Phase [Development Phase] D1[Development Phase: Team develops the alternatives selected. Sketches, cost estimates, validation of data and other technical work are done at this point.] end subgraph Presentation_Phase [Presentation Phase] P1[Presentation Phase: Team presents its recommendations to management and appropriate staff with time allocated for question and answer. VE Study report is developed during the study as a step-by-step record.] end I2 --> A1 A1 --> S1 S1 --> E1 E1 --> D1 D1 --> P1 P1 --> R1[Post Study Surveys of Team, Project Manager and Management. Feedback results to Project Selection and Team Selection Processes & Team Leader.] R1 --> I2 R1 --> R2[Enter data into VE database] </pre>									
NEED											
INVESTIGATION											
ANALYSIS											
SPECULATION											
EVALUATION											
DEVELOPMENT											
PRESENTATION											
RESULTS											
		Process and Quality Indicators		Checking / Indicator Monitoring		Miscellaneous Information					
		Process Indicators And Quality Indicators		Checking Item		Timeframe (Frequency)		Respor-sibility		- Abbreviations - Procedure - Reference - Notes, etc. Federal Regulation 23 CFR 627 VE Procedure 625-030-002 1989 AAASHTO Guidelines for VE NCHRP Synthesis 352 - Value Engineering Applications in Transportation	
		Adaption Rate		What is to be checked?		When to check?		Who will check?			
		40%-60%		VER		Quarterly		SVE		D1: 11/2006 C D2: 12/2006 C D3: 12/2006 C D4: 3/2007 C D5: 12/007 C D6: 5/2007 C D7: 1/2006 C TPK: 12/007 C	
										CODES: C- Compliance NC- Noncompliant BP Best Practice	

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	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Process Indicators: Adoption Rate (01)</p> <p>Quality Indicators: # of pending rec. per time period (02)</p> </div> <div style="width: 45%;"> <p>Control Limits: 40%-60%</p> <p>Specs/Targets: VER</p> </div> </div>	What is to be checked?	When to check?	Who will check?	Date of Last Review
RESOLUTION MEETING					
MONITOR					
		VER	Quarterly	SVE	D1: 11/2006 C
		VER	Quarterly	SVE	D2: 12/2006 C
					D3: 12/2006 C
					D4: 5/2007 C
					D5: 1/2007 C
					D6: 5/2007 C
					D7: 11/2006 C
					TPK: 1/2007 C
					CODES: C- Compliance NC- Noncompliant BP Best Practice

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

Process Control System

Process Name: Value Engineering Reporting Process. Product/Service: Report detailing the results of the Value Engineering Program Primary Customers: Management. Partners: FHWA	Customer's Valid Requirement(s): Prepare accurate and reliable reports Regulator's Valid Requirement(s): Report accurate results of the Value Engineering Program	Flow Chart <div style="display: flex; justify-content: space-around;"> <div style="width: 45%; text-align: center;"> <p>STATE VALUE ENGINEER</p> </div> <div style="width: 45%; text-align: center;"> <p>DISTRICT VALUE ENGINEER</p> </div> </div>																																																							
Input(s): Study Results Supplier(s): DVE Dept/Person Step/Time	Process and Quality Indicators <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">Process 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> <tr> <td style="text-align: center;">P1 # of corrections</td> <td></td> <td>What is to be checked?</td> <td>Quarterly</td> <td>SVE</td> <td>D1: 11/2006 C</td> </tr> <tr> <td style="text-align: center;">Q1 Quarterly Reports complete by 30th of month following end of quarter</td> <td></td> <td></td> <td>Quarterly</td> <td>SVE</td> <td>D2: 12/2006 C</td> </tr> <tr> <td style="text-align: center;">Q2 FHWA Annual Report to Division Offices by Nov 1</td> <td></td> <td></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: 1/2007 C</td> </tr> </table>			Process Indicators	Control Limits And Specs/Targets	Checking Item	Timeframe (Frequency)	Responsibility	QAR	P1 # of corrections		What is to be checked?	Quarterly	SVE	D1: 11/2006 C	Q1 Quarterly Reports complete by 30 th of month following end of quarter			Quarterly	SVE	D2: 12/2006 C	Q2 FHWA Annual Report to Division Offices by Nov 1			Annual	SVE	D3: 12/2006 C						D4: 5/2007 C						D5: 1/2007 C						D6: 5/2007 C						D7: 11/2006 C						TPK: 1/2007 C
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CODES: C- Compliance NC- Noncompliant BP Best Practice																																																									

Process Control System

Process Name: Value Engineering Change Proposal		Product/Service: Resolution on submitted VECP by the contractor		Primary Customers: Management, Contractor Partners: FHWA		Regulator's Valid Requirement(s): Program that encourages the use and resolution of VECP's during construction.									
Inputs: Contractor Submittal Supplier(s): Contractor		Flow Chart						Checking / Indicator Monitoring		Miscellaneous Information					
Dept / Person	Step / Time	CONTRACTOR	RESIDENT ENGINEER	DISTRICT VALUE ENGINEER	DISTRICT ENGINEER DESIGN	DISTRICT ENGINEER CONST.	DISTRICT MANAGEMENT	STATE VALUE ENGINEER	Process and Quality Indicators		Checking / Indicator Monitoring		Miscellaneous Information		
										Process and Quality Indicators: Process Indicators: P1 # pending Quality Indicators: P2 \$\$\$ pending, O1 \$\$\$ saved, O2 Approval rate		Checking / Indicator Monitoring: Checking Item: VER What is to be checked?: Timeframe (Frequency): Quarterly When to check?: Responsibility: DVE/SVE, SVE, SVE Who will check?: Date of Last Review: D1: 11/2006, D2: 12/2006, D3: 12/2006, D4: 5/2007, D6: 12/2007, D6: 5/2007, D7: 11/2006, TPK: 12/2007		Miscellaneous Information: - Abbreviations - Procedure - Reference - Notes, etc. Federal Regulation 23 CFR 627	
												CODES: C-Compliance NC-Noncompliant BP-Best Practices			