



MEMORANDUM

TO: TRANSPORTATION COMMISSION (TC)
FROM: JEFF SUDMEIER, CHIEF FINANCIAL OFFICER
DATE: APRIL 18, 2019
SUBJECT: TENTH BUDGET SUPPLEMENT - FY 2018-2019

Region 1

\$1,954,528 - **Surface Treatment - I-225 Resurfacing from I-25 to Parker Road.** Project 20887 went to ad on February 14, 2019. All bids received were above the original approved budget amount. In order to get the project awarded to the lowest bidder, Region 1 is requesting an additional \$1,954,528. The amount being requested is greater than \$500,000 and more than 15% of the original approved budget. An increase of this kind requires TC approval before being allocated to the project.

I-225 Resurfacing from I-25 to Parker Road

Budget Components by Phase, Funding Program, Fiscal Year

Phase of Work	Funding Program	Current Budget	Supplement Action					Revised Budget	Expended To-Date
			Year of Budget			Total Request	Percent Increase		
			FY2019	FY2020	FY2021				
Design	National Freight Program	\$93,000	\$0	\$0	\$0	\$0	0%	\$93,000	\$73,298
	Total Design	\$93,000	\$0	\$0	\$0	\$0	0%	\$93,000	\$73,298
Construction	Bridge Construction	\$500,000	\$0	\$0	\$0	\$0	0%	\$500,000	\$0
	Hot Spots	\$180,000	\$0	\$0	\$0	\$0	0%	\$180,000	\$0
	Research Initiatives	\$75,000	\$0	\$0	\$0	\$0	0%	\$75,000	\$0
	Surface Treatment	\$10,000,000	\$0	\$1,954,528	\$0	\$1,954,528	20%	\$11,954,528	\$0
	Total Construction	\$10,755,000	\$0	\$1,954,528	\$0	\$1,954,528	18%	\$12,709,528	\$0
Total Project Budget		\$10,848,000	\$0	\$1,954,528	\$0	\$1,954,528	18%	\$12,802,528	\$73,298
			Year of Expenditure			Total Request			
			FY2019	FY2020	FY2021				
			\$0	\$1,954,528	\$0	\$1,954,528			

\$611,523 - **Highway Safety Improvement Program - Aurora Signal Improvement.** Project 22392 went to ad on January 3, 2019. All bids received were above the original approved budget amount. In order to get the project awarded to the lowest bidder, Region 1 is requesting an additional \$611,523. The amount being requested is greater than \$500,000 and more than 15% of the original approved budget. An increase of this kind requires TC approval before being allocated to the project.



Aurora Signal Improvement

Budget Components by Phase, Funding Program, Fiscal Year

Phase of Work	Funding Program	Current Budget	Supplement Action					Revised Budget	Expended To-Date
			Year of Budget			Total Request	Percent Increase		
			FY2019	FY2020	FY2021				
Right of Way	FASTER Safety	\$2,086	\$0	\$0	\$0	\$0	0%	\$2,086	\$2,086
	Total ROW	\$2,086	\$0	\$0	\$0	\$0	0%	\$2,086	\$2,086
Design	FASTER Safety	\$24,447	\$0	\$0	\$0	\$0	0%	\$24,447	\$30,082
	Highway Safety Improvement	\$175,027	\$0	\$0	\$0	\$0	0%	\$175,027	\$157,784
	Total Design	\$199,474	\$0	\$0	\$0	\$0	0%	\$199,474	\$187,866
Construction	FASTER Safety	\$612,296	\$0	\$0	\$0	\$0	0%	\$612,296	\$0
	Highway Safety Improvement	\$1,824,973	\$0	\$0	\$0	\$0	0%	\$1,824,973	\$0
	Signal Asset Management	\$0	\$0	\$611,523	\$0	\$611,523	0%	\$611,523	\$0
	Total Construction	\$2,437,269	\$0	\$611,523	\$0	\$611,523	25%	\$3,048,792	\$0
Total Project Budget		\$2,638,829	\$0	\$611,523	\$0	\$611,523	23%	\$3,250,352	\$189,952
			Year of Expenditure			Total			
			FY2019	FY2020	FY2021	Request			
			\$0	\$611,523	\$0	\$611,523			

Region 2

\$1,600,000 - Transportation Commission Contingency Reserve Fund - *Highways in the Spring Creek Burn Areas*. On June 27, 2018, the second largest wildfire in Colorado history started near Fort Garland in Costilla County and La Veta in Huerfano County. By the end of the fire, 216 homes had been lost and another 119 structures were damaged. The burn scar has left 6 Colorado highways (CO12, CO69, I-25C, I-25A, CO10, and US160) and associated culverts and bridges susceptible to damage due to debris flow caused by a flood. This event would create a risk to the traveling public. In order to mitigate this risk, CDOT wants to install 7 new road closure gates along the 6 impacted highways, install an early alert warning system which is comprised of live stream video cameras and rain gauges with operation and maintenance through 2020, and hire a consultant to help develop and implement an emergency response plan. These measures will help prevent any vehicles from traveling into the area of a flooded highway or into the path of debris flow.

Please see the attached "Region 2 Spring Creek Burn Area"" memo for additional information

Region 4

\$1,300,000 - Transfer from HQ ITS Cost Center OI440-010 to Region 4 ITM Pool - *I-25 Segments 7 & 8 Design Build and I-25 Segments 5 & 6 CMGC*. The funding will be used consistent to the purposes of the ITM Asset Management program to redesign the layout and relocate existing fiber optic cables that will be compromised by the widening of I-25. The existing layout and locations of fiber optic cables was designed over 10 years ago and did not take into consideration the potential impact of the I-25 widening project. A transfer of this amount from a Cost Center to a project requires TC approval per the requirements stated in PD 703.0.



Strategic Safety Program

\$11,361,130 - Transfer from RoadX to new Strategic Safety Program - Request to reallocate Highway Safety Improvement Program (HSIP) funds to a new strategic safety program focused on decreasing the frequency and severity of accidents.

Please see the Budget Workshop memo for additional information

Department of Highway Maintenance (DHM)

\$8,063,000- The Division of Highway Maintenance is requesting a transfer of the remaining \$462,000 from the *Transportation Commission Contingency for Snow and Ice* as well as additional \$7,601,000 from the Transportation Commission Contingency Reserve. Colorado continues to experience large volumes of snow fall relative to the previous year. Due to this high storm frequency, DHM is projecting a budgetary shortfall of \$16.12M if Maintenance continues to spend snow removal funds at the current rate. DHM is requesting 50% of the projected shortfall amount be transferred to keep these maintenance sections solvent for the winter season.

Please see the attached "FY19 Snow and Ice Contingency Request-April" memo for additional information

Attachments

- a. Region 2 Spring Creek Burn Area Memo
- b. FY19 Snow and Ice Contingency Request-April

Transportation Commission Contingency Reserve Fund Reconciliation Tenth Supplement FY 2019 Budget				
Transaction Date	Transaction Description	Amount	Balance	Reference Document
June-18	Ending Balance 12S18		\$34,522,958	
July-18	Balance 1S19		\$35,589,869	
August-18	Balance 2S19		\$32,428,920	
September-18	Balance 3S19		\$28,571,298	
October-18	Balance 4S19		\$28,268,373	
November-18	Balance 5S19		\$28,268,373	
December-18	Balance 6S19		\$28,268,373	
January-19	Balance 7S19		\$31,143,657	
February-19	Balance 8S19		\$30,924,725	
March-19	Balance 9S19		\$28,980,787	
	Region 2 Post Fire Flood Warning System	\$ (1,600,000)		Pending
	Snow and Ice Contingency Request	\$ (7,601,000)		Pending
April-19	Pending Balance 10S19		\$19,779,787	



**Transportation Commission Program Reserve Fund Reconciliation
Tenth Supplement FY 2019 Budget**

Transaction Date	Transaction Description	Amount	Balance	Reference Document
June-18	Ending Balance 12S18		\$123,596,622	
July-18	Balance 1S19		\$139,706,203	
August-18	Balance 2S19		\$139,706,203	
September-18	Balance 3S19		\$144,391,203	
October-18	Balance 4S19		\$214,008,265	
November-18	Balance 5S19		\$144,078,552	
December-18	Balance 6S19		\$133,078,552	
January-19	Balance 7S19		\$133,078,552	
February-19	Balance 8S19		\$44,278,552	
March-19	Balance 9S19		\$44,278,552	
	Correction to FY19 Bridge Off System Allocation	\$ (1,200,000)		1000260102
	Federal Appropriation of Highway Infrastructure Program	\$ 37,233,849		1000260318
	2018 OJT/SS Allocation from FHWA	\$ 78,817		1000260566
April-19	Pending Balance 10S19		\$80,391,218	

**Transportation Commission Contingency Snow & Ice Fund Reconciliation
Tenth Supplement FY 2019 Budget**

Transaction Date	Transaction Description	Amount	Balance	Reference Document
	FY19 Budget Allocation	\$10,000,000		1000250070
	FY18 to FY19 Roll Forward	\$10,000,000		1000250990
July-18	Balance 1S19		\$20,000,000	
August-18	Balance 2S19		\$20,000,000	
September-18	Balance 3S19		\$10,000,000	
October-18	Balance 4S19		\$10,000,000	
November-18	Balance 5S19		\$10,000,000	
December-18	Balance 6S19		\$10,000,000	
January-19	Balance 7S19		\$10,000,000	
February-19	Balance 8S19		\$8,184,000	
March-19	Balance 9S19		\$462,000	
	Snow and Ice Contingency Request	\$ (462,000)		Pending
April-19	Pending Balance 10S19		\$0	

**Transportation Commission Contingency Reserve Fund
Emergency and Permanent Repairs-Nonparticipating costs and state match**

September 11, 2013 Flood Related Monthly Activity

Reg	State Highway	Mileposts	Project Description	County	Total Budget TCCRF
0	0	0.000 - 0.000			\$ -
Total					\$ -

Spring 2015 Flood Related Monthly Activity

Reg	State Highway	Mileposts	Project Description	County	Total Budget TCCRF
0	0	0.000 - 0.000			\$ -
Total					\$ -

Grand Total TCCRF Activity for Emergency Relief Since Last Reporting

\$ -



FY 2018-2019 Contingency Reserve Fund Balance Projection		
March		
TC Contingency Balance (Emergencies)	\$28,980,787	
<i>Pending Requests:</i>		
Region 2 Post Fire Flood Warning System	(\$1,600,000)	
Snow and Ice Contingency Request	(\$7,601,000)	
Pending April		
TC Contingency Reserve Balance	\$19,779,787	
<i>Projected Outflow:</i>	Low Estimate	High Estimate
State Match for Emergency Relief/Permanent Recovery	(\$2,000,000)	(\$5,000,000)
State Match for Spring 2015 Floods	\$0	(\$2,500,000)
<i>Projected Inflow:</i>	Low Estimate	High Estimate
FY 20 Programmed Budget Amount for TCC Pool	\$15,000,000	\$15,000,000
Projected FY 2018-2019 YE Contingency Balance	\$32,779,787	\$27,279,787
<i>TCCRF Surplus (Deficit) to Reach \$40M Balance July 1, 2019</i>	<i>(\$7,220,213)</i>	<i>(\$12,720,213)</i>

FY 2018-2019 Program Reserve Fund Balance Projection		
March		
TC Program Reserve Balance	\$44,278,552	
Correction to FY19 Bridge Off System Allocation	(\$1,200,000)	
Federal Appropriation of Highway Infrastructure Program	\$37,233,849	
2018 OJT/SS Allocation from FHWA	\$78,817	
Pending April		
TC Program Reserve Fund Balance	\$80,391,218	
<i>Projected Outflow:</i>	Low Estimate	High Estimate
USDOT Competitive Highway Bridge Program*	\$0	(\$15,000,000)
US 550 Animas Crossing (NSFLTP Grant)*	\$0	(\$26,000,000)
Colorado V2X Project Internet of Roads (BUILD)*	\$0	(\$3,000,000)
I-25 North Segments 5 and 6 (BUILD)*	\$0	(\$20,000,000)
US 50 Little Blue Canyon (FLAP)*	\$0	(\$12,000,000)
US 160 Wolf Creek Pass (ATCMD)*	\$0	(\$2,000,000)
*Commitment associated with pending or previously awarded federal grant. May be funded with anticipated SB 1, SB 267 funding or other state General Funds. □		
<i>Projected Inflow:</i>	High Estimate	Low Estimate
Reimbursement for Demolition of CDOT Headquarters	\$2,000,000	\$0
FY 20 Programmed Budget Amount for TCI Pool	\$8,733,169	\$8,733,169
Projected FY 2018-2019 YE Program Reserve Balance	\$91,124,387	\$11,124,387



Resolution # TC-19-04-XX

Approval and Adoption of the Tenth Supplement to the Fiscal Year 2018-2019 Budget for the Colorado Department of Transportation

Approved by the Transportation Commission on April 18, 2019.

WHEREAS, the budget requests being presented to the Transportation Commission this month have been reviewed and were determined to meet the criteria outlined in Policy Directive 703.0, requiring approval by the Transportation Commission; and

WHEREAS, the project requests included in the Supplement are consistent with the FY 2019 through FY 2022 STIP, and funds are available from the Regions' allocations unless otherwise indicated.

NOW THEREFORE BE IT RESOLVED, after review and consideration, the Tenth Supplement to the Fiscal Year 2018-2019 Budget is approved by the Transportation Commission.

Herman Stockinger, Secretary
Transportation Commission of Colorado

Date



STATE OF COLORADO

DEPARTMENT OF TRANSPORTATION

Region 2
5615 Wills Blvd.
Pueblo, CO 81008
(719) 546-5451 FAX (719) 546-5414



MEMORANDUM

TO: COLORADO TRANSPORTATION COMMISSION
FROM: KAREN ROWE, REGIONAL 2 TRANSPORTATION DIRECTOR
CC: JOSH LAIPPLY, CDOT CHIEF ENGINEER
JEFF SUDMEIER, CDOT CFO
AJIN HU, REGION 2 SOUTH PROGRAM ENGINEER
DWAYNE GAYMON, REGION 2 MAINTENANCE SUPERINTENDANT
DATE: APRIL 3, 2019
SUBJECT: FUND FOR INSTALLING POST FIRE WARNING SYSTEM AND MAINTENANCE ACTIVITIES ON STATE HIGHWAYS IN THE SPRING CREEK BURN AREA

Purpose

The memorandum is requesting action from the Transportation Commission (TC) to fund the installation of advance warning system, road closure gates and on-going highway maintenance activities on five state highways in the Spring Creek burned area. The requested amount is \$1.6 million. The cost for long term mitigation measures (such as debris basins and possible drainage upgrades), and future year (2021 to 2023) monitoring and maintenance need to be determined.

Action

CDOT Region 2 requests that the TC evaluate the use of Transportation Contingency funds for this project. It is our concern that without this project, CDOT infrastructures and travelling public's safety are at risk.

Background

Between June 27, 2018 and September 6, 2018, the second largest wildfire in Colorado history happened near Fort Garland in Costilla County and La Veta in Huerfano County. The fire burned 108,045 acres of land and destroyed 216 homes and damaged an additional 119 structures.

Based on USGS methodology CDOT Region 2 Hydraulic Unit's internal analysis and USGS analysis it is predicted that significant amount of debris would flow down to CDOT's culverts and bridges along some segments of US160, CO12, I-25C, CO10 and CO69.

The Burned Area Emergency Response's (BEAR) initial report and more recent flood inundation studies by the Natural Resource Conservation Service (NRCS) and Huerfano County indicate high probability of private, municipal, and state facilities and infrastructure being impacted by debris and flooding. A Regional Multi-Agency Coordination Team (RMAC) has been formed by The Department of Homeland Security and Emergency Management and is co-sponsored by Huerfano County. The group continues to assess the risks, prioritize treatments, seek additional funding, and implementing treatments of the burned area. Since CDOT has six highways (CO12, CO69, I-25C, I-25A, CO 10 and US160) that either go through the burned area, adjacent to or downstream from the burned area, CDOT has analyzed ways to mitigate the risk to the travelling public on these roadways.

Details

Installing cameras to provide live stream images along state highways at key locations will assist CDOT staff to monitor state highway conditions for debris flows or flooding. Road closure gates at key locations in the event of state highways will assist in closing the state highways in the event of flooding. There are three existing road closure gates. An additional 7 gates along US160, CO12, CO69, I-25C and CO10 at key locations to close at strategic locations would assist in preventing the traveling public with taking alternative routes and avoid entering the flooded or debris covered highways if an event occurs. The cost of the gates with providing electrical and remote closure ability is around \$150,000 each and totals around \$1 million.

An early alert and warning system similar to Waldo Canyon Fire burned area is essential. CDOT has partnership with USGS for the Waldo Canyon burned area. A similar partnership is requested. Initial installation of 9 cameras and up to the end of 2020 operation/maintenance cost (Live View) is estimated at \$140,000 and of the rain gauges with USGS: \$260,000 (assumed no match fund is available).

In order to thoroughly understand the best and most effective long term mitigation measures, we need consultant's assistance to model the burned area and assist with developing an emergency response protocols which is estimated at \$200,000.

As of today, CDOT maintenance has spent \$77,403 in cleaning bridges and culverts as well as traffic. The continue involvement of Maintenance is the key to protect CDOT assets and the safety of travelling public. CDOT will continue to clean the drainage areas with maintenance forces and equipment available. CDOT maintenance will have equipment and forces when rain events occur to assist in timely highway closures. At this time reimbursement for CDOT maintenance force cost will not be included in this request.

If further study shows debris basins and netting system are needed, the cost of design and installation of debris basins will be identified later with a possible request for additional funds.

Total Funding being requested is: \$1,600,000

Key Benefits

Safety for the traveling public is key to prevent any vehicles from traveling into a flooded highway area or debris flows. Funding will ensure the completion of the installation of the gates at key locations, monitoring and warning systems and analysis to see what features can be constructed to prevent debris from hitting the highway system.

Recommendations

- 1.) Approve request for \$1,600,000 funding to construct all the gates, gauges, cameras and analysis (Staff Recommendation). CDOT will continue to request funding from the other agencies.
- 2.) Approve a reduced amount and the top priority gates, gauges and cameras will be identified and installed with the funds available while continuing the analysis.
- 3.) Decline the request. The Region will work to identify other sources for the funds such as Regional Priority Program.

Next Steps

CDOT will work with partner agencies to install the cameras, gauges, and gates as soon as possible.



COLORADO

Department of Transportation

Division of Highway Maintenance

4201 East Arkansas Ave, 3rd Floor
Denver, CO 80222

TO: Transportation Commission
FROM: Kyle Lester, Director of Highway Maintenance
CC: Jeffrey J. Sudmeier, Chief Financial Officer

DATE: April 6, 2019
SUBJECT: FY19 Snow and Ice Contingency Request

Purpose

The Division of Highway Maintenance (DHM) is requesting \$8,063,000.00 from the Transportation Commission Snow and Ice Contingency funds.

Action Requested

Approval of requested additional funds.

Background

Colorado is seeing a more severe winter than last year throughout much of the state. While statewide storms are on the same pace as last year's numbers, regional storm frequency is much higher statewide, particularly along the JOA, as well as the Grand Junction, Durango, Alamosa and Pueblo sections. Due to this and the precipitation outlook through May 2019, DHM is projecting a budgetary shortfall for snow and ice in the amount of \$16,127,904.09 and is requesting contingency funding. DHM is requesting 50% of the projected budget shortfall to ensure the Greeley, Grand Junction, Durango, Pueblo, Aurora, Craig, Alamosa, Eisenhower Tunnel, Pueblo Traffic and Durango Traffic sections solvent for the winter season and are able to complete summer maintenance activities.

PROCESS

Within the DHM, winter is defined as October 14th through May 8th. Using the MLOS Section Snow and Ice Report, a request for supplemental funding is recommended, if the Remaining Winter exceeds the S&I Section Budget Remaining. The following guidelines are used to determine the Section TC Recommendation.

Section Recommendation Percentage Guide

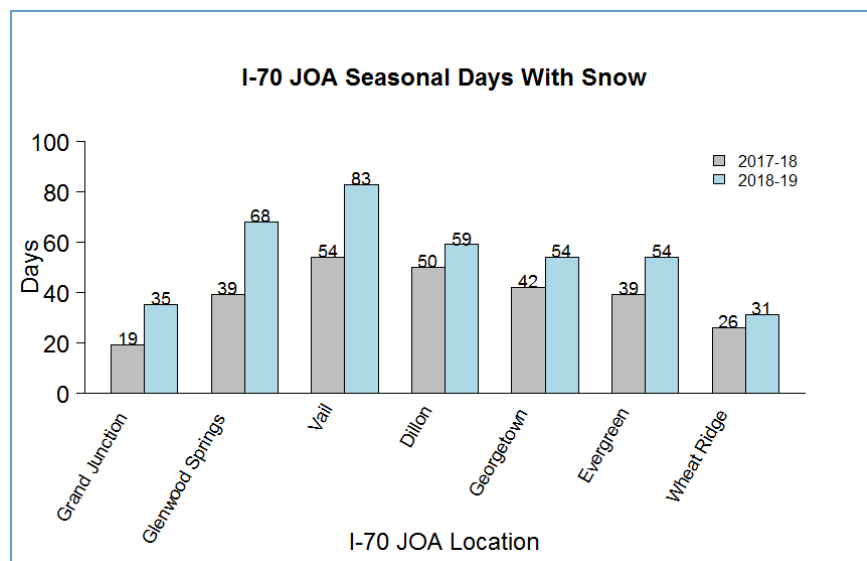
Month	Percentage Request	Month	Percentage Request
October	0%	March	40%
November	0%	April	50%
December	10%	May	60%
January	20%	June	100%
February	30%		

Section	Budget	Expenditure	Winter Remaining	Budget Remaining	Surplus/Deficit	S&I Contingency Request
Greeley	\$12,505,842.59	\$11,558,511.20	16.02%	7.58%	\$1,056,104.59	\$528,000.00
G.J.	\$20,543,988.95	\$23,013,096.61	16.02%	-12.02%	\$5,760,254.69	\$2,880,000.00
Durango	\$7,160,513.46	\$7,365,339.95	16.02%	-2.86%	\$1,351,940.74	\$676,000.00
Pueblo	\$12,698,333.29	\$12,694,974.29	16.02%	0.03%	\$2,030,913.99	\$1,015,000.00
Aurora	\$14,786,420.08	\$13,457,844.26	16.02%	8.99%	\$1,040,208.67	\$520,000.00
Craig	\$6,814,122.25	\$6,087,272.53	16.02%	10.67%	\$364,772.67	\$182,000.00
Alamosa	\$5,286,004.16	\$5,600,725.90	16.02%	-5.95%	\$1,161,539.60	\$581,000.00
EJMT	\$10,023,147.75	\$11,735,471.68	16.02%	-17.08%	\$3,318,032.21	\$1,659,000.00
Aurora T	\$0.00	\$0.00	16.02%	0.00%	\$0.00	\$0.00
Pueblo T	\$1,000.00	\$3,454.80	16.02%	-245.48%	\$3,454.80	\$2,000.00
G.J. T	\$2,319.26	\$9,203.77	16.02%	-296.84%	\$7,256.05	\$0.00
Greeley T	\$154,901.69	\$18,057.65	16.02%	88.34%	\$0.00	\$0.00
Durango T	\$117,424.12	\$138,948.43	16.02%	-18.33%	\$40,335.66	\$20,000.00
State	\$90,094,017.60	\$91,682,901.07	16.02%	-1.76%	\$16,127,904.09	\$8,063,000.00
Total S&I Contingency Request: \$8,063,000.00						

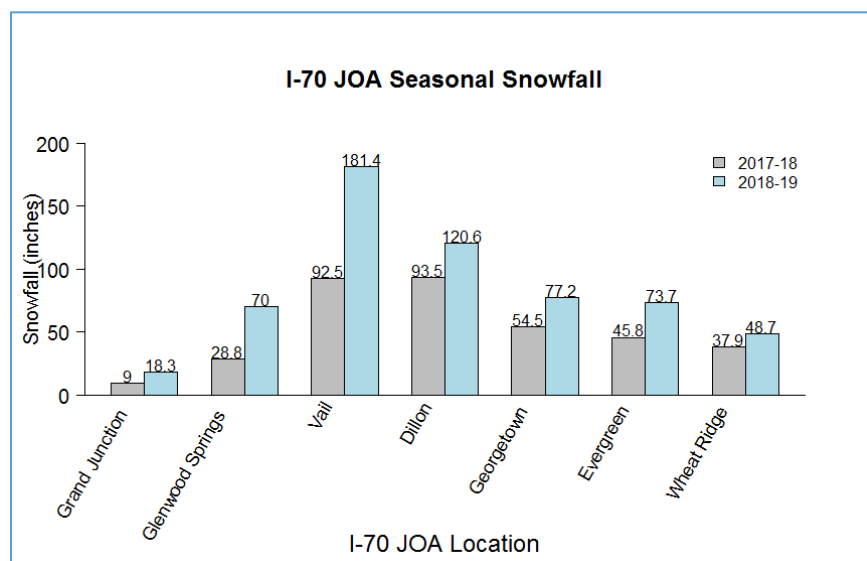
2019 Statewide Storm Severity Index (SSI)				
Storm Event	SSI (Avg)	SSI (Max)	LOS Grade	Total Statewide Cost
#1 Oct 13-15	4.36	6.75	A	\$457,669.01
#2 Nov 29-Dec 1	4.56	8.1	B+	\$597,889.18
#3 Jan 10-11	5.85	7.05	A-	\$817,983.09
#4 Jan 21-23	5.69	7.18	B	\$1,000,743.11
#5 Feb 5-7	9.25	16.16	B	\$819,575.50
#6 Feb 21-23	9.35	21.74	B+	Approximately \$1,900,000

LEGEND		LEGEND
SSI = 0	No weather impacts.	SSI = 0
SSI = 0.01 - 1.00	Small accumulations. Minimal impacts, if any, expected.	SSI = 0.01 - 1.00
SSI = 1.01 - 5.00	Equates to NWS advisory level. Minor disruptions for those who did not prepare.	SSI = 1.01 - 5.00

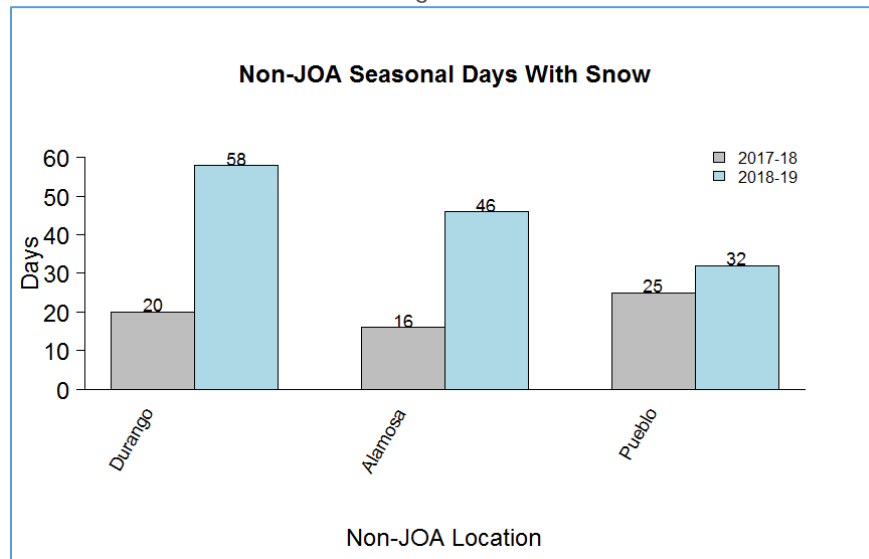
SSI = 5.01 - 20.00	Equates to NWS warning level. A day or two of recovery time from accumulations.	SSI = 5.01 - 20.00
SSI = 20.01 - 50.00	Significant impacts, even with preparation. Several days of recovery time from accumulations.	SSI = 20.01 - 50.00
SSI > 50.01	Historic event. Widespread severe impacts. Up to a week of recovery time from accumulations.	SSI > 50.01



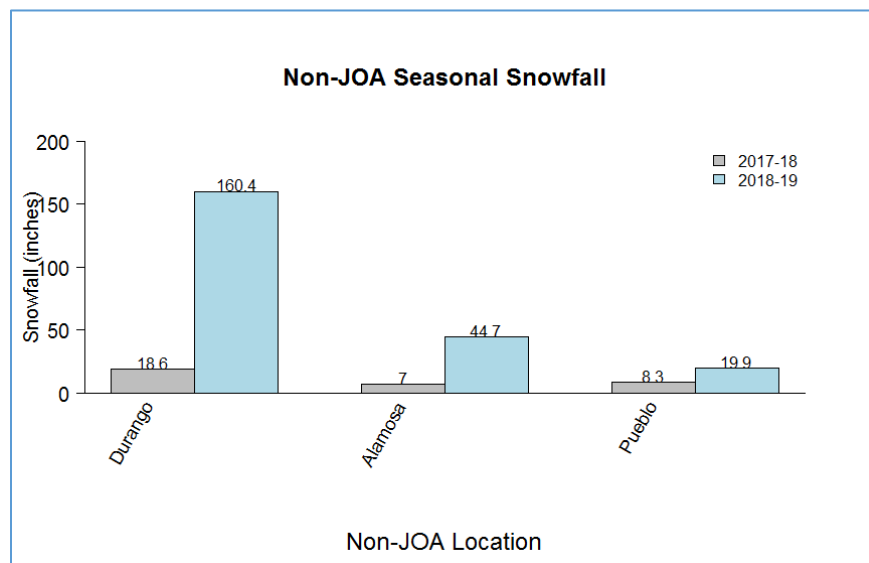
I-70 JOA seasonal comparison of days with snow to date. Gray bars denote values from previous winter season (2017-2018) through March and blue bars denote values from current winter season (2018-2019) through March.



I-70 JOA seasonal comparison of snow accumulation to date. Gray bars denote values from previous winter season (2017-2018) through March and blue bars denote values from current winter season (2018-2019) through March.



Non-JOA seasonal comparison of days with snow to date. Gray bars denote values from previous winter season (2017-2018) through March and blue bars denote values from current winter season (2018-2019) through March.



Non-JOA seasonal comparison of snow accumulation to date. Gray bars denote values from previous winter season (2017-2018) through March and blue bars denote values from current winter season (2018-2019) through March.