APPENDIX D10: SOUTH SALT LAKE VALLEY

Safety Summary Tech Memo #1 Safety Analysis Case Study Project Information Sheets Case Study Project Location Map Equity Index Map

SOUTH SALT LAKE VALLEY SAFETY SUMMARY



CSAP OVERVIEW

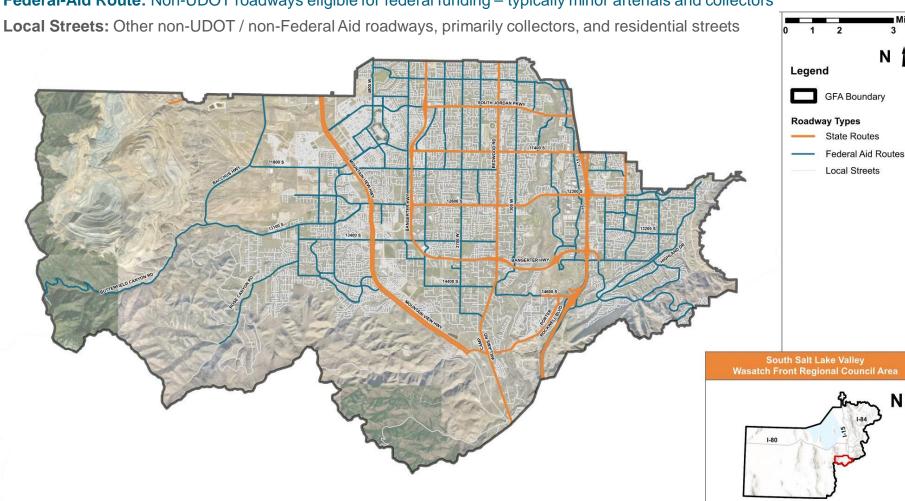
"A plan to provide local governments the means to make strategic roadway safety improvements"

Wasatch Front Regional Council (WFRC) is preparing a regional Comprehensive Safety Action Plan (CSAP). The CSAP will present a holistic, well-defined strategy to reduce roadway fatalities and serious injuries in the Wasatch Front region.

The CSAP will analyze safety needs, identify high-risk locations and factors contributing to crashes, and *prioritize* strategies to address them.

The CSAP will meet eligibility requirements that allow local jurisdictions to apply for Implementation Grants from the United States Department of Transportation (USDOT) Safe Streets and Roads for All (SS4A) discretionary grant program. The grant program was established by the Bipartisan Infrastructure Law (BIL) with \$5 billion in appropriated funds, 2022-2026. A Safety Action Plan must include the following elements, as specified by FHWA to satisfy eligibility requirements to apply for an implementation grant:

State Route: Roadways owned, operated, and maintained by UDOT Federal-Aid Route: Non-UDOT roadways eligible for federal funding - typically minor arterials and collectors



Self-Certification Checklist

Plan must include the following:

- **Safety Analysis**
 - Existing conditions and historical trends
 - Crashes by location, severity, and contributing factor
 - Systemic and specific safety needs
 - Geospatial identification of higher risk locations
- Identification of comprehensive set of projects and strategies

...And must complete 4 of the 6 elements to the right:

- Leadership Commitment 1.
 - Governing body publicly commit to a zero fatalities and serious injury goal

Plan Development 2.

Committee charged with plan development, implementation, and monitoring

Development Activities 3.

Engagement with public and relevant stakeholders

5.

4.

6.

Equity

Data-driven, inclusive, and representative processes

Policies, Plans, Guidelines, and/or **Standards**

Assessment policies, plans, guidelines, and/or standards

Progress

Description on how progress will be measured over time



Safe System Approach

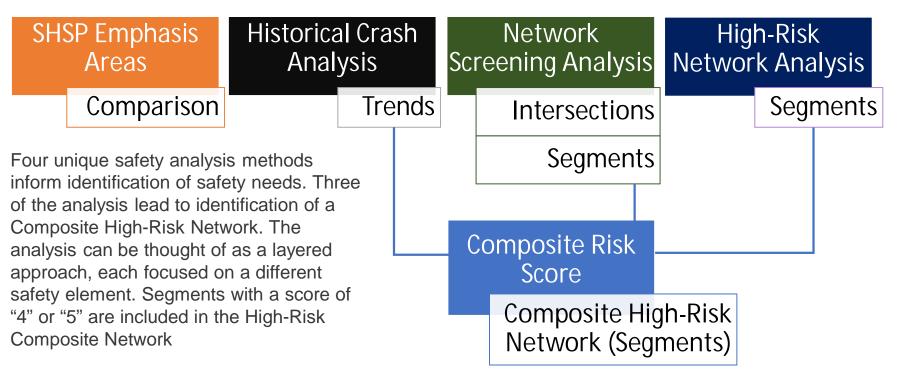
Implementing a Safe System Approach requires moving away from traditional safety paradigms.

- □ The Safe System approach seeks to prevent death and serious injuries.
- □ The Safe System approach designs for human mistakes and limitations.
- □ The Safe System approach focuses on speed management and strategies to reduce system kinetic energy.
- □ The Safe System approach aims to share responsibility among system users, managers, and others.
- The Safe System approach proactively identifies and addresses risks



Traditional Approach to Safety	
Prevent crashes	Prever
Improve human behavior	Desigr
Control speeding	Reduc
Individuals are responsible	Share
React based on crash history	Proact

Safety Analysis Methodology



Analysis	Composite High Risk Score Element	Value
Historical Crash Analysis	Segment 5-Year Crash Totals ≥ 3 Crashes	1
Network Screening Analysis	Positive CCR Differential	1
	Crash Profile Risk Score ≥ 20	1
High Bick Natwork Applycia	usRAP Vehicle Star Rating = 1-2 Stars	1
High-Risk Network Analysis	usRAP Pedestrian Star Rating = 1-2 Stars	0.5
	usRAP Bicycle Star Rating = 1-2 Stars	0.5
Total Possible Composite Risk Score		5

South Salt Lake Valley Geographic Focus Area

Safe System Approach Paradigm

ent death and serious injury

In for human mistakes/limitations

ce system kinetic energy

responsibility

ctively identify and address risks



Strategic Highway Safety Plan (SHSP) Emphasis Area Comparison

Based on a comparison of fatal and serious injuries for each Utah SHSP Emphasis area, the following emphasis areas should be considered when developing safety improvement projects specific to the South Salt Lake Valley GFA.

- Intersections
- **Teen Driver**
- Speed-Related
- Roadway Departure
- Motorcycle

Intersection, Roadway Departure, and Speed-Related emphasis areas rank highest in terms of number of fatal and serious injuries at the Statewide and WFRC Levels.

In addition to Intersection, Roadway Departure, and Speed-Related emphasis areas within the South Salt Lake Valley GFA, Teen Driver and Motorcycle are also identified as top emphasis areas.

Strategic Highway Safety Plan Emphasis Area Comparison

		Statewid	e Totals	WFRC	Totals	South Sa	Tand ious ioury Rank in Ra From WFR 21 2 201 2 36 9 36 9 36 10 26 11 33 10 51 7 59 6 02 1 54 4 53 5	ey Totals
Category	Utah SHSP Safety Emphasis Area	Fatal and Serious Injury	Rank	Fatal and Serious Injury	Rank	Fatal and Serious Injury	Rank	Change in Rank From WFRC
	Teen Driver	1,640	4	751	4	91	2	2
	Older Driver	1,508	6	700	6	36	9	-3
	Speed-Related	2,133	3	936	3	90	3	0
Driver	Aggressive Driving	555	11	297	10	26	11	-1
	Distracted Driving	718	10	286	11	33	10	1
	Impaired Driving	1,184	8	623	8	51	7	1
	No Safety Restraints	1,542	5	599	9	59	6	3
	Intersection	3,567	1	2,163	1	202	1	0
Roadway	Roadway Departure	2,931	2	1,014	2	64	4	-2
	Motorcycle	1,457	7	750	5	63	5	0
Special Users	Pedestrian	912	9	636	7	38	8	-1
	Bicycle*	280	12	167	12	10	12	0

*While Bicycles are not one of the eleven Utah SHSP emphasis areas, they are included as part of the CSAP safety analysis.

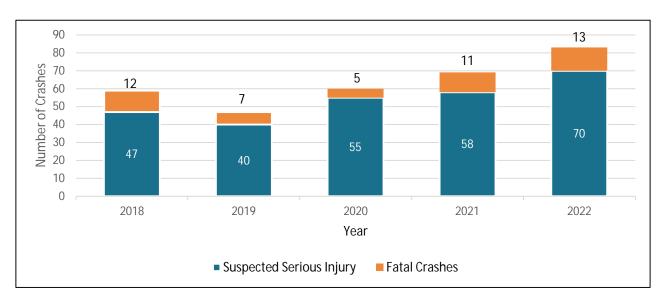
South Salt Lake Valley Geographic Focus Area

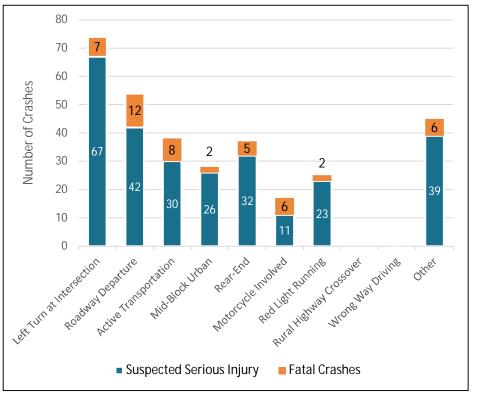
SHSP Emphasis Areas

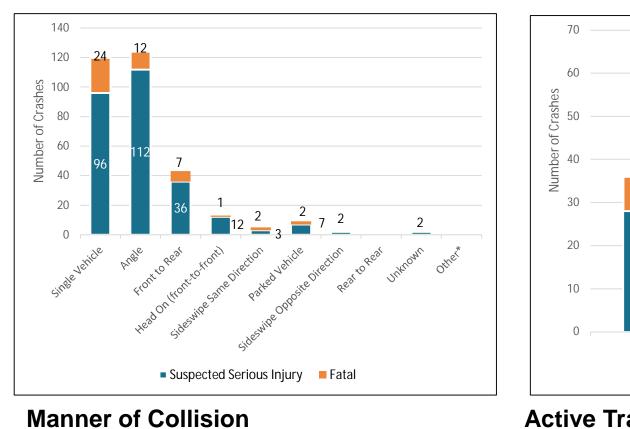
Comparison



Route Type	State	Route		al Aid ute	Local	Street	Overa	% of WFRC	
Crash Severity	Cras	shes	Cras	shes	Cras	shes	Cras	shes	%
orash coverny	#	%	# %		#	%	#	%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Fatal	31	0%	12	0%	5	0%	48	0.3%	0.0%
Suspected Serious Injury	139	1%	96	2%	35	2%	270	1.5%	0.1%
Suspected Minor Injury	762	8%	579	10%	133	6%	1,474	8.2%	0.8%
Possible Injury	1,943	20%	1,013	17%	246	11%	3,202	17.9%	1.8%
No Injury / Property Damage Only	6,770	70%	4,368	72%	1,784	81%	12,922	72.1%	7.2%
Route Total	9,645	100%	6,068	100%	2,203	100%	17,916	100%	9.9%



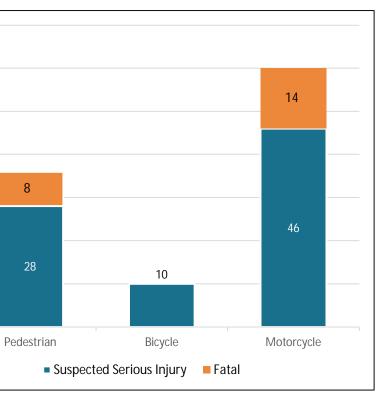




Crash Type

South Salt Lake Valley Geographic Focus Area

Annual Fatal and Serious Injury Crashes (2018-2022)



Active Transportation

Historical Crash Analysis

Trends



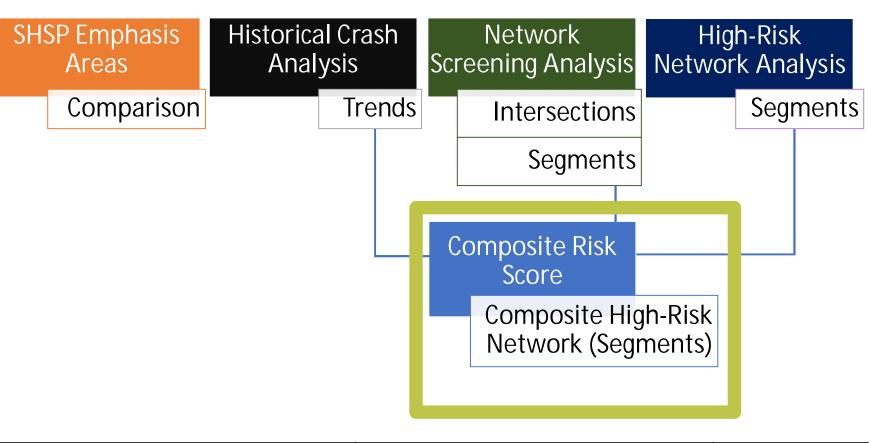
Composite High-Risk Roadway Network

Each of the completed safety analysis methodologies identified segments or intersections that are candidates for safety improvements to reduce fatalities and serious injury crashes.

To provide focused information for jurisdictional decisions regarding prioritization of safety improvements, an analysis was performed to identify overlapping segments from each of the analysis methodologies. A composite score, from zero to five, was assigned to each State Highway or Federal Aid Route segment in the region. State Route or Federal Aid Route segments with a score of "4" or higher are included in the Composite High-Risk Network. These represent the top 10% of State Route and Federal Aid Route segments for the entire WFRC area.

The Composite High Risk Network map on page 8 includes State Route and Federal Aid Route segments with a score of "4" or higher.

A list of locally-owned and maintained Federal Aid Route segments in the South Salt Lake Valley GFA Composite High-Risk Network is included on the next page. Streets operated and maintained by local agencies are an emphasis of the SS4A program.



Analysis	Composite High Risk Score Element	Value
Historical Crash Analysis	Segment 5-Year Crash Totals ≥ 3 Crashes	1
Network Screening Analysis	Positive Local CCR Differential	1
	Crash Profile Risk Score ≥ 20	1
High Diek Network Applysia	usRAP Vehicle Star Rating = 1-2 Stars	1
High Risk Network Analysis	usRAP Pedestrian Star Rating = 1-2 Stars	0.5
	usRAP Bicycle Star Rating = 1-2 Stars	0.5
Total Possible Composite Risk Score		5

South Salt Lake Valley Geographic Focus Area

Composite Risk Score Composite High-Risk Network (Segments)



						R	RISK 1	FYPE			
Facility	Limits	Functional Classification	City	Length (miles)	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Rating	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Street Risk Assessment
State Route				-	I	,		1	,		
South Jordan Parkway	Bangerter Highway to I-15	Other Principal Arterial	South Jordan	4.2	Х	Х	Х	Х		Х	
11400 South	Bangerter Highway to 3420 West	Other Principal Arterial	South Jordan, Draper	0.6	Х	Х	Х	Х		Х	
11400 South	Redwood Road to I-15	Other Principal Arterial	South Jordan	2.3	Х	Х	Х		Х	Х	
12600 South (SR-71)	Dunhammer Drive to 1630 West	Other Principal Arterial	Riverton	1.4	Х	Х	Х	Х		Х	
12300 South (SR-71)	265 West to 700 East	Other Principal Arterial	Draper	1.5	Х	Х	Х	Х	Х	Х	
Bangerter Highway (SR-154)	2700 West to 13800 South	Other Principal Arterial	Riverton, Bluffdale	4.5	Х	Х	Х	Х		Х	
14600 South	Noell Nelson Drive to I-15	Minor Arterial	Bluffdale	1.0	Х	Х	Х	Х		Х	
Bangerter Highway (SR-154)	200 West to 13800 South	Other Principal Arterial	Draper	0.8	Х	Х	Х	Х		Х	
Redwood Road (SR-68)	9400 South to 9916 South	Other Principal Arterial	South Jordan	1.5	Х	Х	Х	Х		Х	
Redwood Road (SR-68)	11400 South to Andover Road	Other Principal Arterial	South Jordan	0.3	Х	Х	Х		Х	Х	
Redwood Road (SR-68)	12600 South to Bangerter Highway	Other Principal Arterial	Riverton	2.2	Х	Х	Х	Х		Х	
Camp Williams Road (SR-68)	1500 South to Portter Rockwell Blvd	Other Principal Arterial	Bluffdale	1.0	Х	Х	Х	Х		Х	
Bangerter Highway (SR-154)	12600 South to 13400 South	Other Principal Arterial	Riverton	1.0	Х	Х	Х	Х		Х	
State Street (US-89)	11400 South to 12300 South	Other Principal Arterial	Draper	1.2	Х	Х	Х	Х	Х	Х	
700 Easy (SR-71)	11400 South to 12300 South	Other Principal Arterial	Draper	1.2	Х	Х	Х	Х	Х	Х	
Federal Aid Routes											
1300 W	10400 S to McClan Dr	Major Collector	South Jordan	0.1	Х	Х	Х		Х	Х	
Daybreak Rim Way	Oakmond Rd to Bangerter Hwy	Minor Arterial	South Jordan	1.3	Х	Х	Х	Х		Х	
11400 S	State St to 150 E	Other Principal Arterial	Sandy	0.3	Х	Х	Х		Х	Х	
12300 S	700 E to 100 E	Minor Arterial	Draper	0.5	Х	Х	Х	Х	Х	Х	
1300 E	Draper Gate Dr to Ballard Cv	Minor Arterial	Draper	0.5	Х	Х	Х	Х	Х		

Composite High-Risk Network (State Route/Federal Aid) and Local Street Risk Network

6

South Salt Lake Valley Geographic Focus Area

State Route and Federal Aid segments in the South Salt Lake Valley GFA Composite High-Risk Network are listed at left. Each of these segments received a composite risk score of "4" or higher. These segments provide a focus for local jurisdictions or for coordination with UDOT. Each of these segments are shown on the map on page 8.

> **Composite Risk** Score Composite High-Risk Network (Segments)



Composite High-Risk Network (State Route/Federal Aid) and Local Street Risk Network

						RISK TYPE							
Facility	Limits	Functional Classification	City	Length (miles)	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Rating	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Street Risk Assessment		
Federal Aid Routes		·				<u> </u>							
1300 E	13200 S to Bent Pine Cv	Minor Arterial	Draper	0.5	Х	Х	Х	Х		Х			
13400 S	5600 W to Monarch Meadows Pkwy	Minor Arterial	Riverton, Herriman	0.1	Х	Х		Х	Х	Х			
Bluffdale Blvd (14600 S)	1515 W to 850 W	Minor Arterial	Bluffdale	1.2	Х	Х	Х	Х	Х	Х			
Local Streets					Lo	ocal St	reet	Risk A	lssess	ment	t		
Anthem Park Boulevard	SR-65 to 12600 South	Minor Arterial	Herriman	1.1							Х		
Monarch Meadow/Ft Herriman	4800 West to Main Street	Local	Herriman/Riverton	1.4							Х		
River Heights	10350 South to 11970 South	Minor Collector	South Jordan	2.3							Х		
Rose Crest Road	Autumn Crest Boulevard to Palisade Rose Driv	Major Collector	Herriman	0.9		The Lo					Х		
Fort Street	13200 South to 12400 South	Major Collector	Draper	0.9							Х		
Emmeline Drive	Sun Bloom Lane to Friendship Drive	Minor Collector	Herriman	0.7	Assessment considered factors such as locations of crashes.			Х					
12600 South	Main Street to 6200 West	Minor Arterial	Herriman	1.5	P. 571	-	braki				Х		
3200 West	Rolling Creek Way to 12130 South	Major Collector	Riverton/South Jordan	0.6				-			Х		
13200 South	Highland Drive to 300 East	Minor Collector	Draper	2.0							Х		
6000 West	13900 South to 1st Street	Major Collector	Herriman	1.1							Х		

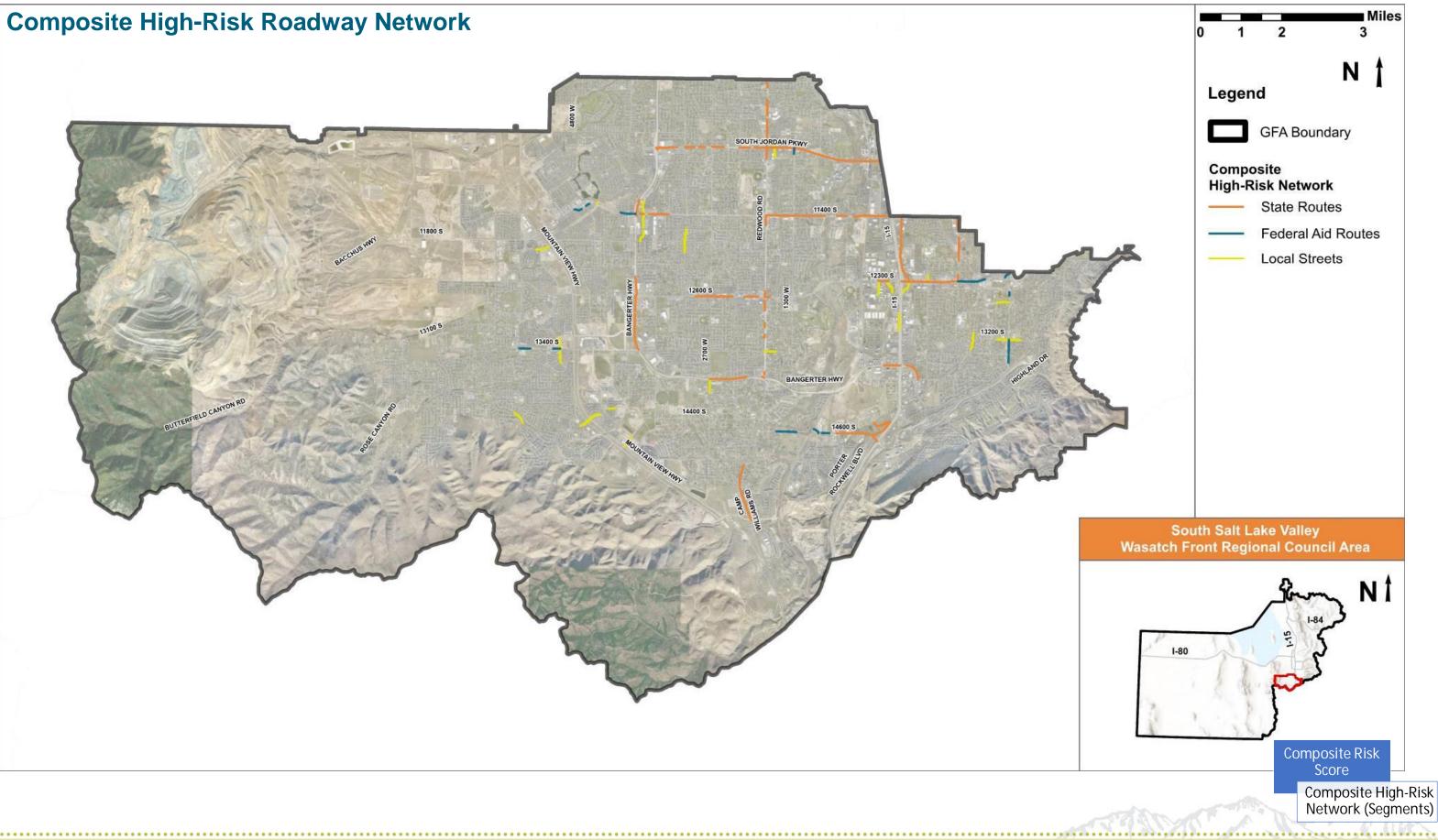
State Route and Federal Aid segments in the South Salt Lake Valley GFA Composite High-Risk Network are listed at left. Each of these segments received a composite risk score of "4" or higher. These segments provide a focus for local jurisdictions or for coordination with UDOT. Each of these segments are shown on the map on page 8.

Local Streets are also listed at left. These segments were identified through a separate analysis that considered factors such as crash location, proximity to schools, and hard braking.

South Salt Lake Valley Geographic Focus Area

Composite Risk Score Composite High-Risk Network (Segments)







Network Screening - Intersections

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Network Screening is one of the inputs to the Composite High Risk Roadway Network. Network screening is based on Critical Crash Rate Differential analysis as documented in the Highway Safety Manual. This analysis identified intersections where historical crash rates exceed those which can be expected for similar facilities.

A list of the top 10 intersections on State Routes, Federal Aid Routes, and Local (Non-Federal Aid) Streets in the South Salt Lake Valley GFA are listed at right, along with their associated number of crashes.

For each intersection, the Critical Crash Rate (CCR) Differential and Equivalent Property Damage Only (EDPO) value is listed. These intersections represent those with the highest potential for safety improvements and can be considered as project candidate locations.

Signalized and unsignalized intersections in the South Salt Lake Valley GFA with a positive Critical Crash Rate Differential (rate exceeds expected rate) are mapped on page 10.

Intersection	City	Crashes	Critical Crash Rate Differential	EPDO ¹	Fatal	Suspected Serious Injury	Suspected Minor Injury	Possible Injury	No Injury/PDO	Angle	Front to Rear	Head On	Parked Vehicle	Single Vehicle	Rear to Rear	Rear to Side	Sideswipe (Same Direction)	Sideswipe (opposite Direction)	Other/Unknown	Pedestrian	Bicycle	Motorcycle
Signalized Intersections				_																		
Minuteman Dr & Highland Dr	Draper	72	7.5	387	0	0	8	14	50	38	26	1	2	0	0	0	0	4	1	0	1	0
Palisade Rose Dr & Rosecrest Rd	Herriman	25	5.0	87	0	0	0	6	19	18	5	0	2	0	0	0	0	0	0	0	0	0
300 E & 12450 S	Draper	21	3.6	52	0	0	0	3	18	8	6	0	3	0	0	0	1	2	1	0	1	0
Pony Express Rd & Highland Dr	Bluffdale	46	3.1	349	0	1	5	10	30	21	14	2	5	1	0	1	0	1	1	0	1	0
Porter Rockwell Blvd & Bluffdale Blvd	Bluffdale	37	3.0	256	0	1	4	4	28	4	29	1	1	0	0	0	0	1	1	0	0	1
Mountain View Sb Hwy & Anthem Park Blvd	Herriman	82	2.9	1719	1	4	10	16	51	38	32	2	4	0	0	0	2	2	2	2	1	0
Rockwell Park Ln & Shocky Access	Herriman	25	2.9	1007	1	0	2	5	17	2	7	0	14	0	1	0	0	1	0	0	0	0
Mustang Trail Way & Herriman Blvd	Herriman	16	2.6	101	0	0	3	2	11	9	4	1	1	1	0	0	0	0	0	1	0	0
Mountain View Sb Hwy & Rosecrest Rd	Herriman	40	1.2	167	0	0	4	4	32	14	17	0	3	0	0	0	0	5	1	1	0	0
4000 W & 11800 S	South Jordan	39	1.0	363	0	1	6	10	22	22	12	1	3	0	0	0	0	1	0	1	1	1
Unsignalized Intersections				_																		
2200 W & Temple View Ln	South Jordan	17	6.9	38	0	0	0	2	15	10	7	0	0	0	0	0	0	0	0	0	0	0
300 E & Carlquist Dr Roundabout	Draper	26	5.3	171	0	1	1	3	21	7	9	0	6	0	0	0	0	2	2	0	0	0
Creek Meadow Rd & Creek Meadow Rd	Riverton	10	4.9	41	0	0	0	3	7	10	0	0	0	0	0	0	0	0	0	0	0	0
District Dr & 11500 S	South Jordan	10	4.1	20	0	0	0	1	9	10	0	0	0	0	0	0	0	0	0	0	0	0
Parkway Plaza Dr & 11550 S	South Jordan	4	3.7	14	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0
Oakmond Rd & Oakmond Rd	South Jordan	8	3.5	18	0	0	0	1	7	1	4	0	2	0	0	0	0	1	0	0	0	0
Charger Way & Pheasant View Dr	Draper	4	3.2	25	0	0	0	2	2	2	1	0	0	0	0	0	0	1	0	0	0	0
Eagles Flight Rd & Teal Ridge Way	Riverton	5	3.1	15	0	0	0	1	4	3	2	0	0	0	0	0	0	0	0	0	0	0
Anthem Park Blvd & Herriman Blvd	Herriman	13	2.8	45	0	0	1	1	11	4	7	1	1	0	0	0	0	0	0	0	1	0
Mike Weir Dr & Traverse Ridge Rd	Draper	9	2.6	51	0	0	1	2	6	2	1	0	4	1	0	0	0	1	0	0	1	0
1. Equivalent Property Damage Only Crashes																						

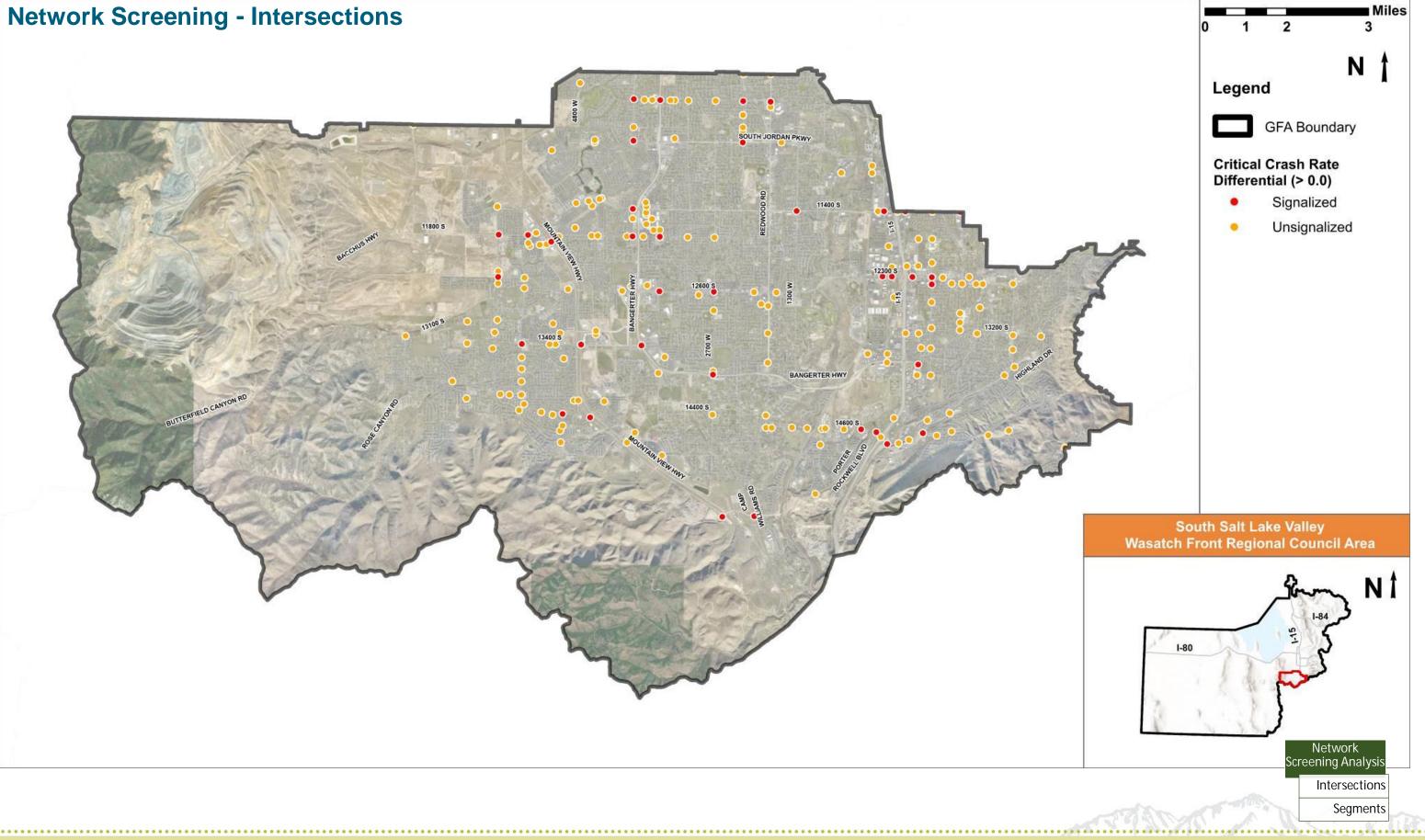
- = 90 100% probability that crash type is over-represented
- = 80 90% probability that crash type is over-represented
- = 70 80% probability that crash type is over-represented

South Salt Lake Valley Geographic Focus Area

Network Screening Analysis Intersections

Segments







Supporting Information



High-Risk Roadway Segments (Federal Aid Routes)

				R	ISK	TYPE	:		
Facility	Limits	City	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Rating	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Streets Risk Assessment
Federal Aid Routes			_						
Bacchus Highway	South Jordan Parkway to North GFA Extents	South Jordan	Х	Х					
Bacchus Highway	13100 South to South Jordan Parkway	South Jordan	Х						
South Jordan Parkway	Mountain View Corridor to Cardinal Park Ro	South Jordan	Х	Х					
10400 South	Vermillion Drive to Bangerter Highway	South Jordan	Х						
13100 South/13090 South	Bacchus Highway to Rosecrest Road	Herriman	Х	Х					
Rose Canyon Road	13400 South to 13100 South	Herriman	Х	Х					
13400 South	2700 West to Redwood Road	Riverton	Х	Х					
13400 South	Mountain View Corridor to 2700 West	Herriman	Х						
13400 South	Rose Canyon Road to Mountain View Corrid	Herriman	Х	Х					
11800 South	Bacchus Highway to 6000 West	Herriman	Х						
11800 South	6000 West to Mountain View Corridor	Herriman	Х	Х	Х				
Daybreak Parkway	Mountain View Corridor to Oakmond Road	South Jordan	Х	Х					
Daybreak Parkway	Oakmond Road to Bangerter Highway	South Jordan	Х	Х	Х				
Freedom Park Drive	Anthem Park Blvd to 11800 South	South Jordan	Х						
Anthem Park Blvd	Miller Crossing Drive to Mountain View Cor	Herriman	Х						
11800 South	Mountain View Corridor to Anthem Court	South Jordan	Х						
11800 South	2480 West to Redwood Road	Riverton	Х	Х	Х				
4000 West	12600 South to Kilt Street	Riverton	Х						

A list of Federal Aid segments in the **South Salt** Lake Valley GFA identified from each of the safety analysis methods is listed in the table at left. An "x" is placed to identify the analysis that flagged the segment:

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The maps on page 19 through 23 depict each of these segments identified by the respective analysis.

South Salt Lake Valley Geographic Focus Area

• usRAP Star Ratings (Vehicle, Bicycle, Pedestrian) Crash Profile Risk Score Network Screening, applying Critical Crash Rate (CCR) and Significant Crashes (three or

more crashes over 5-year period)

Composite Risk Score



High-Risk Roadway Segments (Federal Aid Routes), Cont'd

				R	ISK ⁻	TYPE	-		
Facility	Limits	City	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Rating	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Streets Risk Assessment
Federal Aid Routes									
12600 South	Main Street to Bangerter Highway	Riverton	Х	Х					
4570 West	Geronimo Road to 12600 South	Riverton			Х				
2700 West	15000 South to Van Ross Drive	South Jordan	Х						
2240 West	12600 South to 11800 South	Riverton			Х				
15000 South	2700 West to Camp Williams Road	Bluffdale	Х						
1300 West	Y worry Lane to North GFA Boundary	South Jordan	Х						
1300 West	Withers Lane to Y worry Lane	Riverton	Х	Х	Х				
1300 West/Loumis Parkway	Blue Quill Drive to Ryanna Drive	Bluffdale	Х	Х					
Loumis Parkway	Redwood Road to Blue Quill Drive	Bluffdale	Х						
1690 West	14600 South to Redwood Road	Bluffdale			Х				
14600 South	1690 West to 1515 West	Bluffdale			Х				
14600 South	1515 West to Heritage Crest Way	Bluffdale	Х	Х	Х				
10000 South	1000 West to East GFA Extents	South Jordan	Х	Х	Х				
Jordan Gateway/Lone Peak Par	12300 South to North GFA Extents	South Jordan	Х						
Jordan Gateway/Lone Peak Par	Golden Harvest Road to 12300 South	Draper	Х		Х				
200 West	Bangerter Highway to Galena Park Blvd	Draper	Х						
13800 South	600 West to 200 West	Draper	Х						
Galena Park Blvd/Vista Station	13490 South to 700 West	Draper	Х	Х	Х				

A list of Federal Aid segments in the **South Salt** Lake Valley GFA identified from each of the safety analysis methods is listed in the table at left. An "x" is placed to identify the analysis that flagged the segment:

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The maps on page 19 through 23 depict each of these segments identified by the respective analysis.

• usRAP Star Ratings (Vehicle, Bicycle, Pedestrian) Crash Profile Risk Score Network Screening, applying Critical Crash Rate (CCR) and Significant Crashes (three or

more crashes over 5-year period)

Composite Risk Score



High-Risk Roadway Segments (Federal Aid Routes), Cont'd

				R	ISK ⁻	TYPE			
Facility	Limits	City	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Rating	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Streets Risk Assessment
Federal Aid Routes									
700 West	Galen Park Blvd to 11400 South	Draper	Х	Х	Х				
Pony Express Road	South GFA Boundary to 14600 South	Draper	Х						
300 East	11800 South to 11400 South	Draper			Х				
Willow Springs Lane	300 East to Whisper Bend Drive	Draper			Х				
2000 East	Graystone Drive to Genova Drive	Draper	Х	Х	Х				
13800 South	Wadsworth Park Drive to Bangerter Highway	Draper	Х	Х	Х				
Bangerter Parkway	Highland Drive to 13800 South	Draper	Х	Х					
Traverse Ridge Road	Deer Ridge Road to Highland Drive	Draper	Х						
Draper Parkway/12300 South	700 East to North GFA Extents	Draper	Х	Х	Х				
1300 East	Manfield Way to North GFA Extents	Draper	Х	Х	Х				
1300 East	13200 South to Manfield Way	Draper	Х	Х					
1300 East	13700 South to 13200 South	Draper	Х	Х	Х				
Fort Street	13400 South to 12400 South	Draper			Х				
12400 South/Pioneer Road	970 East to Highland Drive	Draper	Х						
Highland Drive	Bangerter Parkway to Pioneer Road	Draper	Х						
Jordan Gateway	12300 South to North GFA Extents	South Jordan				Х			
4000 West	12600 South to North GFA Extents	Riverton				Х			
Draper Parkway	700 East to 1300 East	Draper				Х			

A list of Federal Aid segments in the **South Salt** Lake Valley GFA identified from each of the safety analysis methods is listed in the table at left. An "x" is placed to identify the analysis that flagged the segment:

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The maps on page 19 through 23 depict each of these segments identified by the respective analysis.

South Salt Lake Valley Geographic Focus Area

• usRAP Star Ratings (Vehicle, Bicycle, Pedestrian) Crash Profile Risk Score Network Screening, applying Critical Crash Rate (CCR) and Significant Crashes (three or

more crashes over 5-year period)

Composite Risk Score



High-Risk Roadway Segments (Federal Aid Routes), Cont'd

				R	ISK 7	TYPE	-		
Facility	Limits	City	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Rating	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Streets Risk Assessment
Federal Aid Routes		_							
Daybreak Rim Way / Daybreak	Oakmond Road to Bangerter Highway	South Jordan				Х			
11800 South	Bacchus Highway to SR-85	South Jordan				Х			
14600 South	Camp Williams Road to 800 West	Bluffdale				Х			
1300 East	13700 South to 13200 South	Draper				Х			
Pony Express Road	South GFA Extent to 14600 South	Riverton				Х			
Rose Canyon Road	13400 South to 13100 South	Herriman				Х			
13400 South	Rose Canyon Drive to SR-85	Herriman				Х			
12600 South	Main Street to Bangerter Highway	South Jordan				Х			
13100 South	Butterfield Canyon Road to Rosecrest Road	Herriman				Х			
Bacchus Highway	Truck Road to Old Bingham Highway	South Jordan				Х			
Rose Canyon Road	Yellow Fork Canyon to 6400 West	Herriman				Х			
Lake Run Rd	Daybreak Pkwy to Frogs Leap Dr	South Jordan					Х	Х	
4050 W	Innovation Dr to 13400 S	Riverton					Х	Х	
River Heights Dr	Summer Heights Dr to Vista Pradera Way	South Jordan					Х	Х	
Bluffdale Blvd	1328 W to 1300 W	Bluffdale					Х	Х	
River Heights Dr	Logan Canyon Rd to 10400 S	South Jordan					Х	Х	
Traverse Ridge Rd	Highland Dr to Traverse Pointe Dr	Draper					Х	Х	
Traverse Ridge Rd	Private Driveway to Mike Weir Dr	Draper					Х	Х	

A list of Federal Aid segments in the **South Salt** Lake Valley GFA identified from each of the safety analysis methods is listed in the table at left. An "x" is placed to identify the analysis that flagged the segment:

۲

The maps on page 19 through 23 depict each of these segments identified by the respective analysis.

South Salt Lake Valley Geographic Focus Area

• usRAP Star Ratings (Vehicle, Bicycle, Pedestrian) Crash Profile Risk Score Network Screening, applying Critical Crash Rate (CCR) and Significant Crashes (three or

more crashes over 5-year period)

Composite Risk Score



Network Screening – Segments (Local Streets)

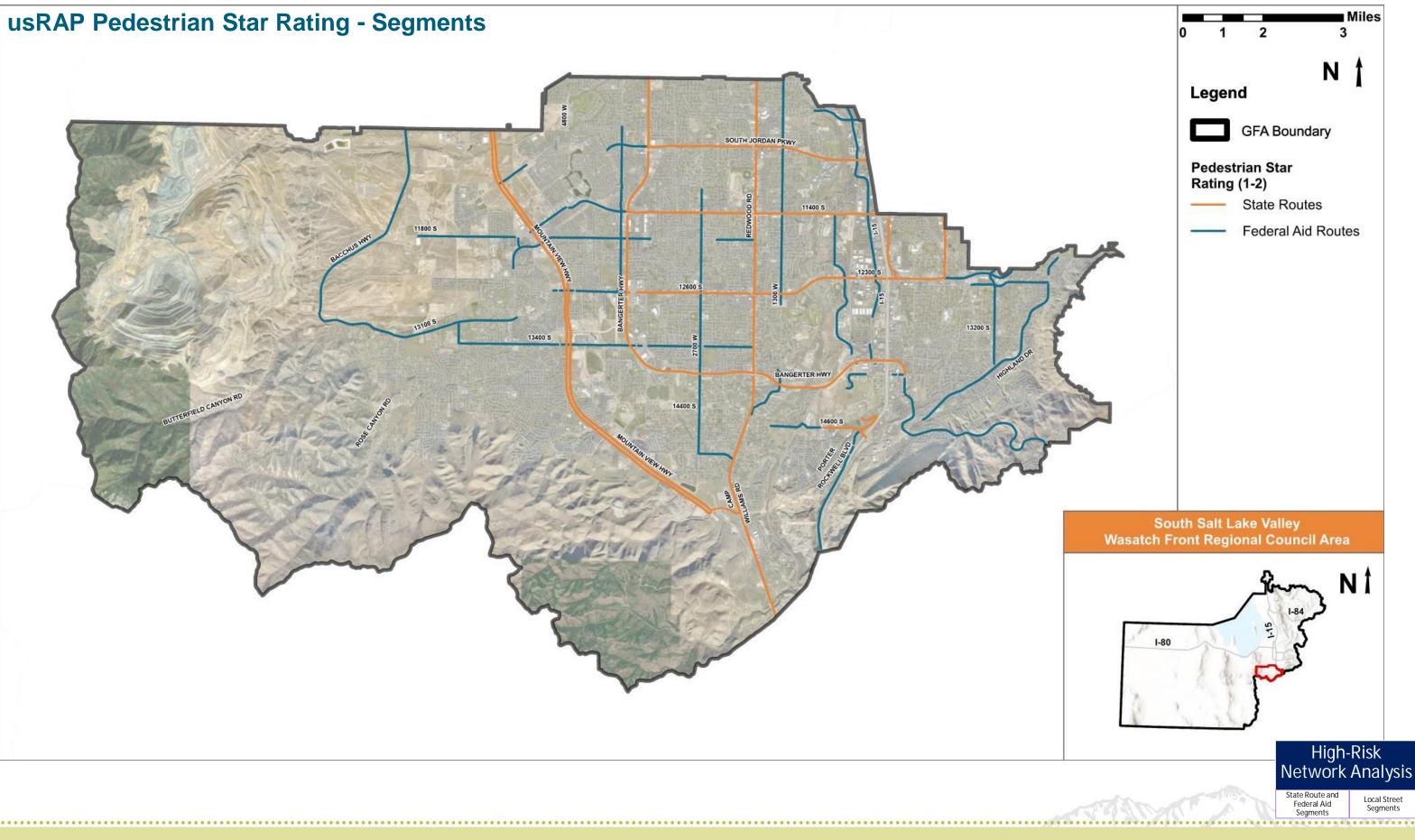
			RISK TYPE						
Facility	Limits	City	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Rating	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Streets Risk Assessment
Federal Aid Routes						a			
700 E	Fox Meadow Dr to Golden Pheasant Dr	Draper					Х	Х	
700 E	Golden Pheasant Dr to Pheasant View Dr	Draper					Х	Х	
2200 W	10400 S to Temple View Ln	South Jordan					Х	Х	
Local Streets									
300 W	Opportunity Way to 11400 S	Draper					Х	Х	
Jordan Narrows Rd	Camp Williams Rd to 1400 W	Bluffdale					Х	Х	
Heritagecrest Way	Concord Park Dr to 14600 S	Bluffdale					Х	Х	
Spring View Pkwy	14600 S to Stone Fly Cir	Bluffdale					Х	Х	
Koins Way	Rising Star Way to Life Dr	Bluffdale					Х	Х	
Emma Mine Dr	Mineral Way to Dynamic Cir	Herriman					Х	Х	
Park Bluff Way	Puma Mountain Way to Cantle Dr	Bluffdale					Х	Х	
Parkway Plaza Dr	11500 S to 11400 S	South Jordan					Х	Х	
12200 S	Spencer Peak Way to 300 E	Draper					Х	Х	
Spencer Peak Way	150 E to 12175 S	Draper					Х	Х	

South Salt Lake Valley Geographic Focus Area

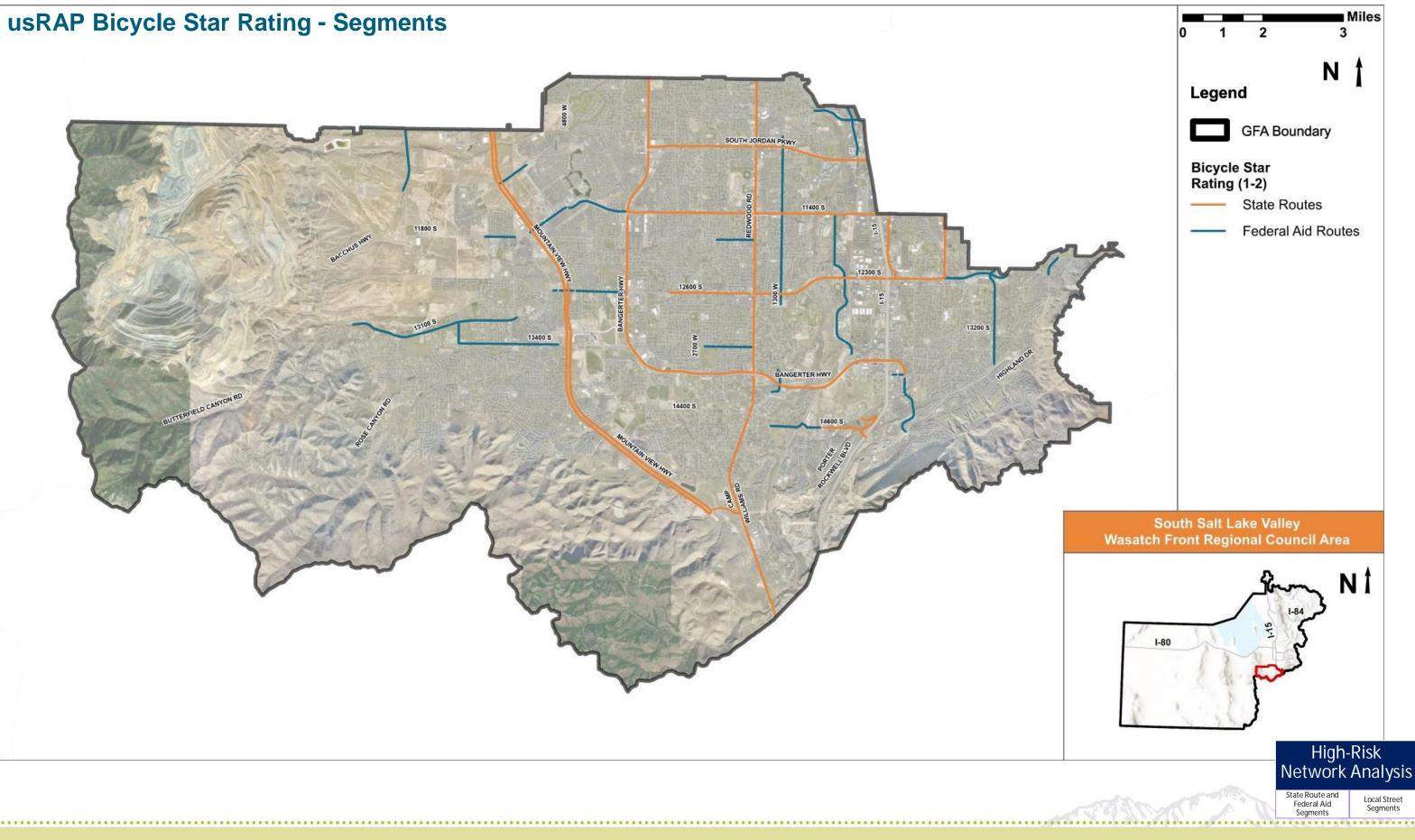
A list of Local Street segments in the **South Salt** Lake Valley GFA identified from Network Screening, applying Critical Crash Rate (CCR) and Significant Crashes (three or more crashes over 5year period), is shown at left.

> Composite Risk Score

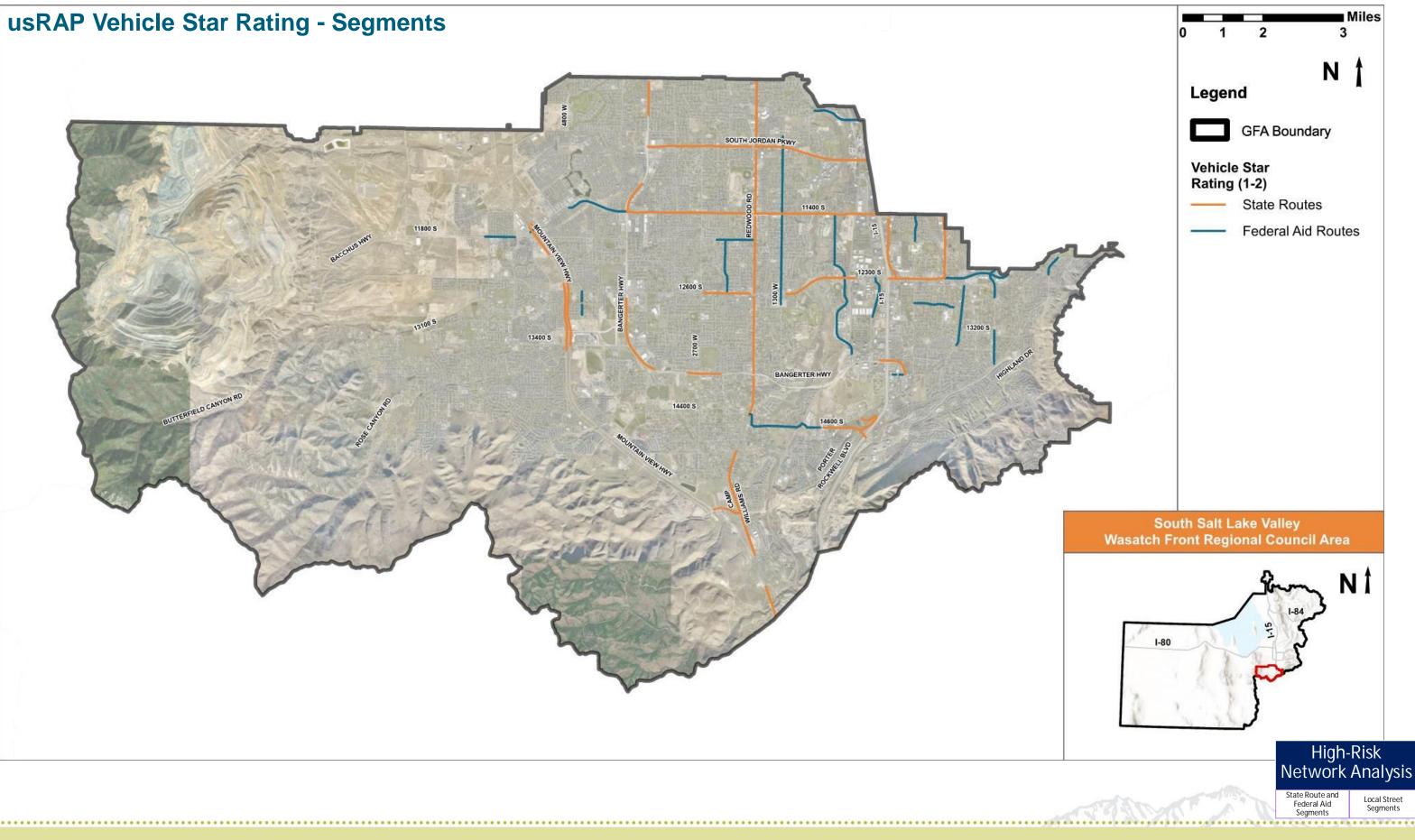




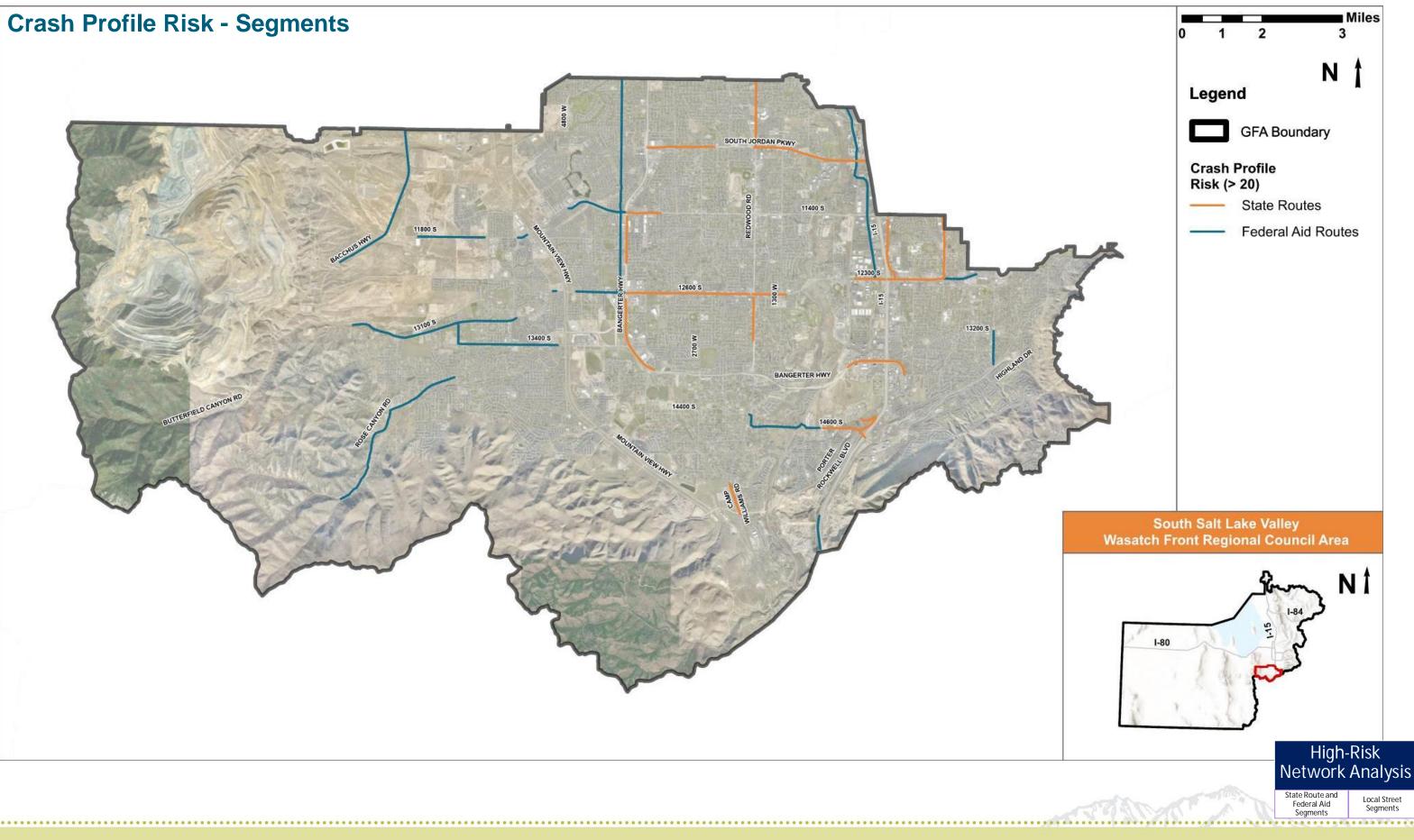




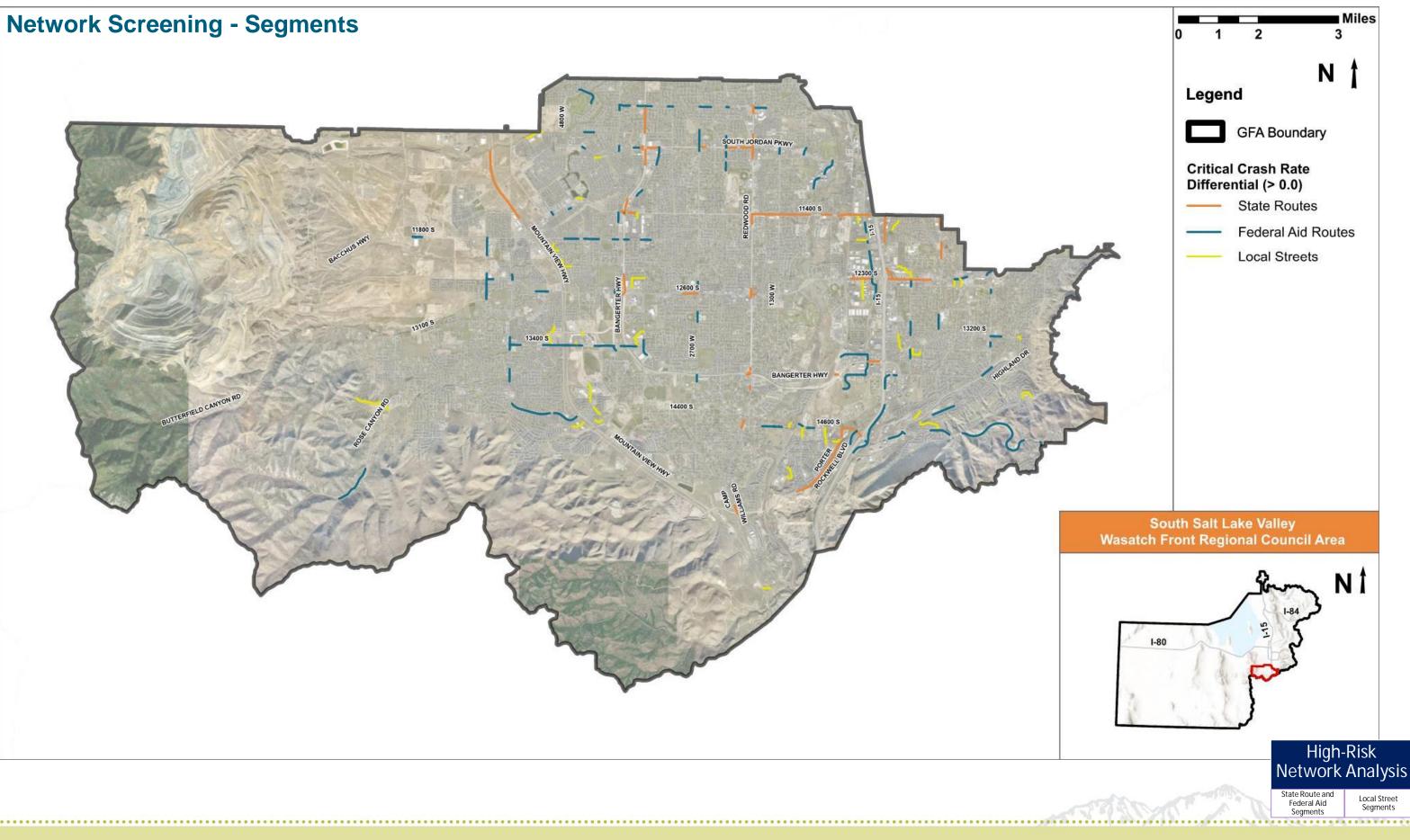












SOUTH SALT LAKE VALLEY TECH MEMO #1 SAFETY ANALYSIS



TECHNICAL MEMORANDUM #1

APPENDIX A10 - SOUTH SALT LAKE VALLEY GEOGRAPHIC FOCUS AREA ANALYSIS

December 2023

Statutory Notice

23 U.S.C. § 409: US Code - Section 409: Discovery and admission as evidence of certain reports and surveys

Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway- highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

File name: Appendix A10 - South Salt Lake Valley GFA - Safety Analysis

Table of Contents

1.	Intro	duction	5
	1.1.	Safety Analysis	5
	1.2.	Appendix Organization	5
2.	Stud	ly Area	6
3.	SHS	P Emphasis Area Analysis	9
4.	Histe	orical Crash Analysis	10
	4.1.	Overall Crashes	10
	4.2.	Fatal and Serious Injury Crashes by Year	10
	4.3.	Fatal and Serious Injury Crashes by Location	10
	4.4.	Fatal and Serious Injury Crashes by Crash Type	15
	4.5.	Fatal and Serious Injury Vulnerable User Crashes	17
	4.6.	Fatal and Serious Injury Crashes by Manner of Collision	19
	4.7.	Fatal and Serious Injury Intersection Crashes	21
	4.8.	Fatal and Serious Injury Crashes by Functional Class	23
	4.9.	Fatal and Serious Injury Crash Trees Diagrams	25
5.	Cras	h and Network Screening Analysis	29
6.	Road	dway Characteristic Risk Analysis	37
	6.1.	Crash Profile Risk Assessment	37
	6.2.	usRAP Risk Assessment	40
	6.3.	Local Street Risk Assessment	49
7.	Safe	ty Analysis Summary	51
	7.1.	Common Risk Characteristics	51
	7.2.	Composite High-Risk Roadway Network	51

List of Figures

Figure 2.1 – South Salt Lake Valley GFA Study Area	7
Figure 2.2 – South Salt Lake Valley GFA Roadway Network	8
Figure 4.1 – Fatal and Serious Injury Crashes by Year	. 11
Figure 4.3 – Annual Fatal Crashes by Roadway Ownership	. 12
Figure 4.5 – Annual Serious Injury Crashes by Roadway Ownership	. 12
Figure 4.6 – Fatal and Serious Injury Crashes	. 13
Figure 4.7 – Fatal and Serious Injury Crash Density	. 14
Figure 4.8 – Fatal and Serious Injury Crashes by Crash Type	. 15
Figure 4.9 – Fatal Crashes by Crash Type and Roadway Ownership	. 16
Figure 4.10 – Serious Injury Crashes by Crash Type and Roadway Ownership	. 16
Figure 4.11 – Fatal and Serious Injury Crashes by Vulnerable User	. 17
Figure 4.12 – Fatal Crashes by Vulnerable User and Roadway Ownership	. 18
Figure 4.13 – Serious Injury Crashes by Vulnerable User and Roadway Ownership	. 18
Figure 4.14 – Fatal and Serious Injury Crashes by Manner of Collision	. 19
Figure 4.15 – Fatal Crashes by Manner of Collision and Roadway Ownership	. 20
Figure 4.16 – Serious Injury Crashes by Manner of Collision and Roadway Ownership	. 20
Figure 4.17 – Fatal and Serious Injury Crashes by Intersection	. 21
Figure 4.18 – Fatal Crashes by Intersection and Roadway Ownership	. 22
Figure 4.19 – Serious Injury Crashes by Intersection and Roadway Ownership	. 22
Figure 4.20 – Fatal and Serious Injury Crashes by Functional Class	. 23
Figure 4.21 – Fatal Injury Crashes by Functional Class and Roadway Ownership	. 24
Figure 4.22 – Serious Injury Crashes by Functional Class and Roadway Ownership	. 24
Figure 4.23 – Fatal and Serious Injury Crash Tree Diagram (Crash Type)	. 26
Figure 4.24 – Fatal and Serious Injury Crash Tree Diagram (Manner of Collision)	. 27
Figure 4.25 – Fatal and Serious Injury Crash Tree Diagram (Active Transportation)	. 28
Figure 5.1 – CCR Differential – Segments (State Routes)	. 30
Figure 5.2 – CCR Differential – Segments (Federal Aid Routes)	. 31
Figure 5.3 – CCR Differential – Segments (Local Routes)	. 32
Figure 5.4 – CCR Differential – Intersections (Signalized)	. 34
Figure 5.5 – CCR Differential – Intersections (Unsignalized)	. 35
Figure 6.1 – Crash Profile Risk Assessment Results (State Routes)	. 38



Figure 6.2 – Crash Profile Risk Assessment Results (Federal Aid Routes)	39
Figure 6.3 – Vehicle Star Rating (State Routes)	43
Figure 6.4 – Vehicle Star Rating (Federal Aid Routes)	44
Figure 6.5 – Pedestrian Star Rating (State Routes)	45
Figure 6.6 – Pedestrian Star Rating (Federal Aid Routes)	46
Figure 6.7 – Bicycle Star Rating (State Routes)	47
Figure 6.8 – Bicycle Star Rating (Federal Aid Routes)	48
Figure 6.9 – Local Street Risk Assessment Results	50
Figure 7.1 – South Salt Lake Valley High-Risk Roadway Network (State Routes)	53
Figure 7.2 – South Salt Lake Valley High-Risk Roadway Network (Federal Aid Routes)	54

List of Tables

Table 3.1 – SHSP Emphasis Areas Analysis	9
Table 4.1 – Crashes by Severity by Roadway Ownership	10
Table 5.1 – Crash and Network Screening Analysis Results - Segments	33
Table 5.2 – Crash and Network Screening Analysis Results - Intersections	36
Table 6.1 – Crash Profile Risk Segments (Federal Aid Routes)	37
Table 6.2 – usRAP Risk Segments (Federal Aid Route)	40
Table 6.3 – Local Street High Priority Segments	49
Table 7.1 – Composite High-Risk Roadway	52
Table 7.2 – South Salt Lake Valley High-Risk Roadway Network (State Routes and Federal Aid R	,



1. Introduction

Appendix A10 summarizes the safety analysis performed for the South Salt Lake Valley Geographic Focus Area (GFA) for the Wasatch Front Area Comprehensive Safety Action Plan (CSAP).

The analysis of available safety related data informs identification of a potential project locations that may be further considered in the development of safety related projects and project types.

1.1. Safety Analysis

The following safety analysis methodologies were completed for the South Salt Lake Valley GFA:

- Strategic Highway Safety Plan (SHSP) Emphasis Area Analysis
- Historical Crash Analysis
- Crash and Network Screening Analysis
- Roadway Characteristic Risk Analysis
 - Crash Profile Risk Assessment
 - usRAP Risk Factors Analysis
 - Local Street Risk Assessment

An overview on the methodologies used to perform these safety analyses are described in Technical Memorandum #1: Safety Analysis Results Summary. **Appendix A10** summarizes the results of the analyses for the South Salt Lake Valley GFA.

1.2. Appendix Organization

This Appendix is organized into the following sections:

- Section 1 Introduction
- Section 2 South Salt Lake Valley GFA study area and roadway network.
- Section 3 Strategic Highway Safety Plan (SHSP) Emphasis Area Analysis for fatal and serious injuries.
- Section 4 Historical Crash Analysis
- Section 5 Crash and Network Screening Analysis based on Highway Safety Manual (HSM).
- Section 6 Roadway Characteristic Risk Analysis
- Section 7 Safety analysis common risk characteristics and Composite High-Risk Roadway Network.



2. Study Area

The CSAP study area includes each jurisdiction within the WFRC area. To organize the large number of jurisdictions within the WFRC area into manageable analysis areas, jurisdictions are organized into Geographic Focus Areas (GFA). The South Salt Lake Valley GFA (**Figure 2.1**) is located entirely within Salt Lake County and includes the following agencies and jurisdictions:

- South Jordan
- Riverton
- Draper
- Bluffdale
- Herriman
- Copperton (Township)

The safety analyses presented in this Technical Memorandum are specific to the South Salt Lake Valley GFA.

Figure 2.2 highlights the roadway network within the South Salt Lake Valley GFA study area. Roadways within the study area are divided into the following three categories:

- State Routes: UDOT-maintained roads
- Federal Aid Routes: Jurisdiction-maintained roads eligible for federal funding
- Local Streets: Local Jurisdiction-maintained roads that are not Federal Aid routes.

NOTE ON CRASH DATA ANALYSIS: All crash data presented in this Technical Memorandum are specific to the South Salt Lake Valley, for the years 2018-2022. Crash data was obtained from the Utah Department of Transportation.



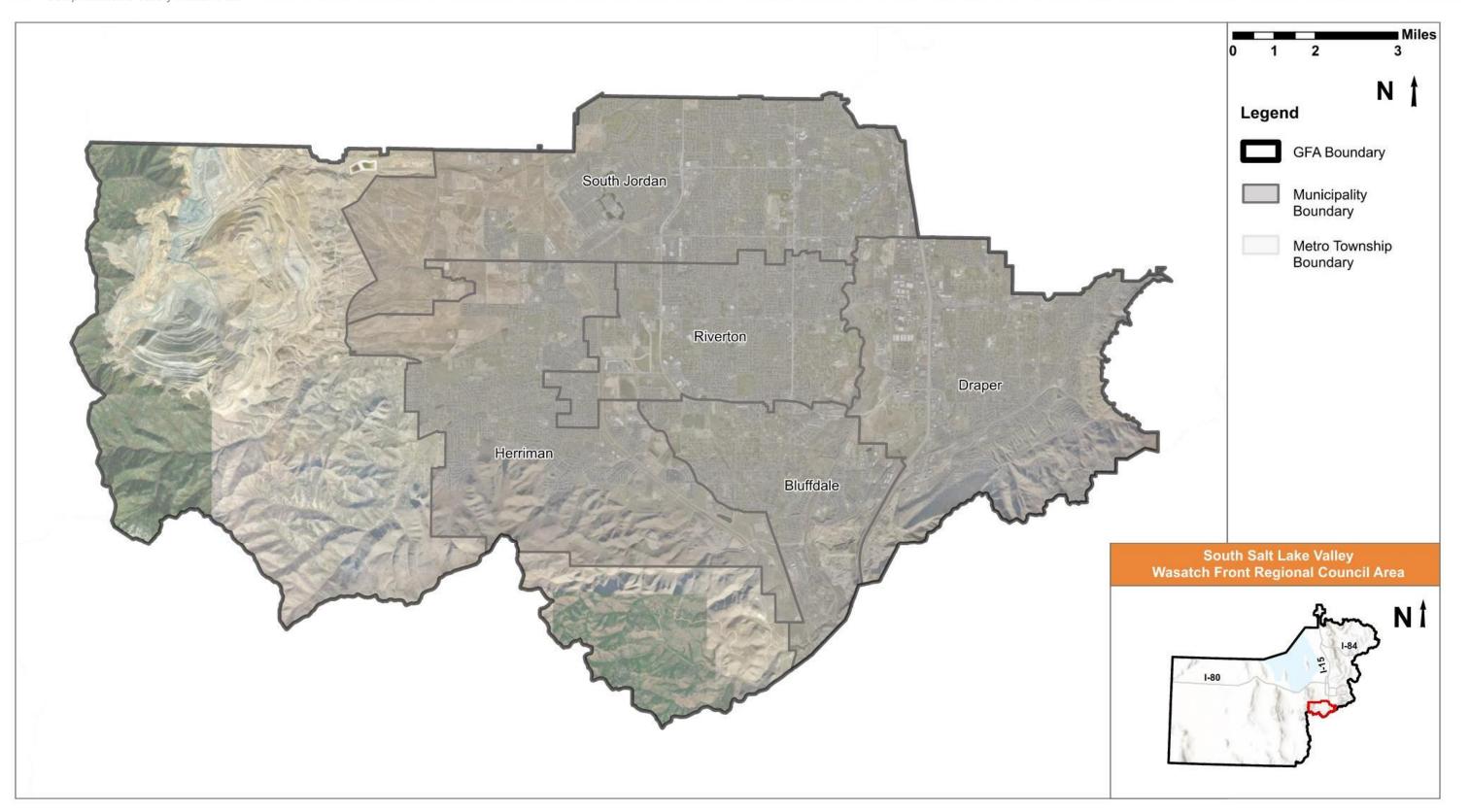


Figure 2.1 – South Salt Lake Valley GFA Study Area



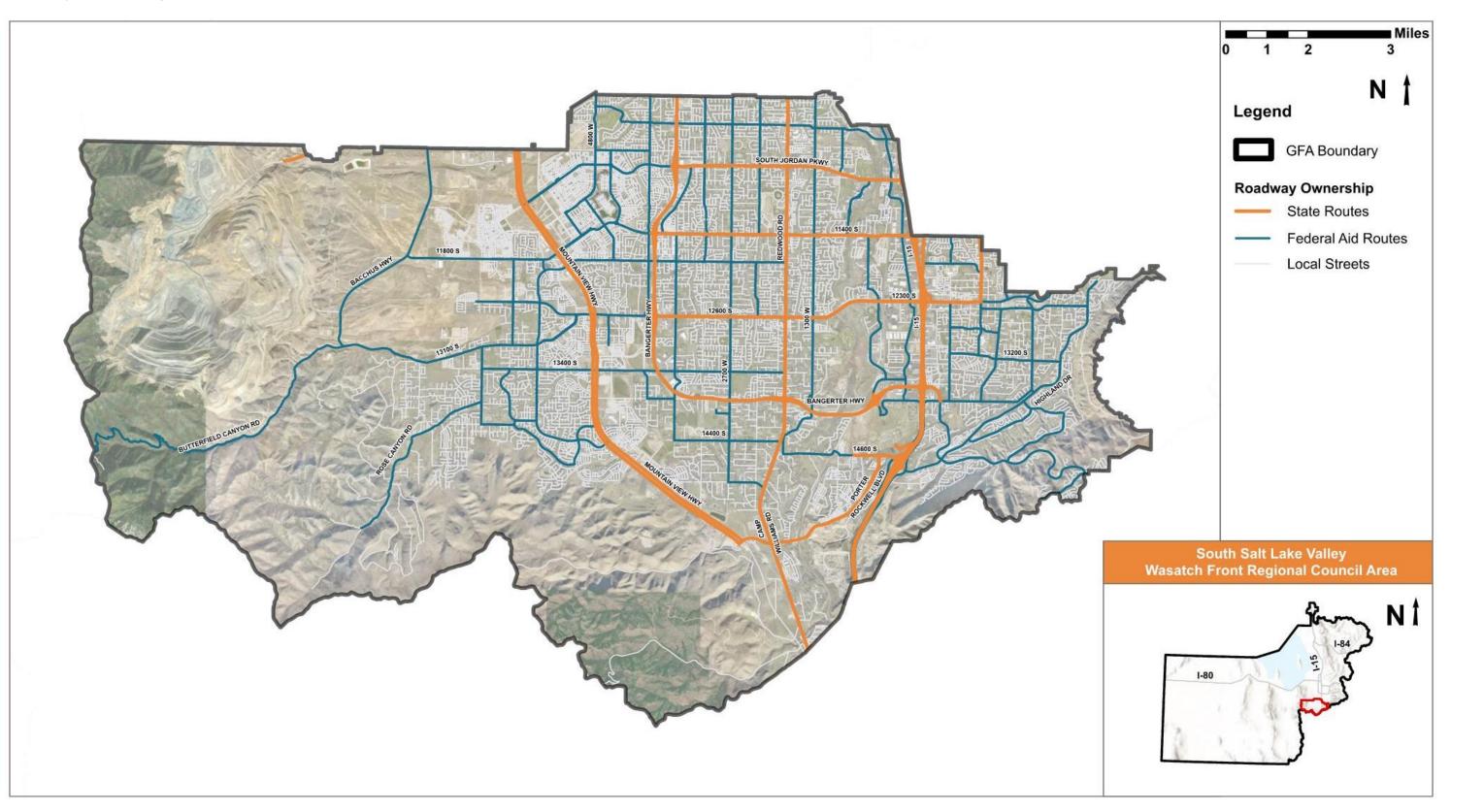


Figure 2.2 – South Salt Lake Valley GFA Roadway Network



3. SHSP Emphasis Area Analysis

The SHSP emphasis area analysis ranks the frequency of fatal and serious injury crashes in South Salt Lake Valley GFA for each of the eleven Utah SHSP emphasis areas. The rankings of the emphasis areas are compared for the South Salt Lake Valley GFA, statewide (all public roads statewide), and the WFRC study area totals. Each reported crash can have more than one emphasis area identified. The results of the SHSP emphasis area analysis are displayed in **Table 3.1**. The top five ranked emphasis areas are highlighted in the table with the top five for the South Salt Lake Valley GFA listed below:

- Intersections
- Roadway Departure
- Teen Driver
- Impaired Driving
- Speed-Related

	Utah SHSP	Statewic	le Totals	WFRC	Totals	South Salt Lake Valley Totals			
Category	Safety Emphasis Area	Fatal and Serious Injury	Rank	Fatal and Serious Injury	Rank	Fatal and Serious Injury	Rank	Change in Rank From WFRC	
	Teen Driver	1,640	4	917	5	98	2	3	
	Older Driver	1,508	6	523	8	27	10	-2	
	Speed-Related	2,133	3	723	6	74	5	1	
	Aggressive Driving	555	11	243	11	25	11	0	
Driver	Distracted Driving	718	10	955	4	64	6	-2	
	Impaired Driving	1,184	8	1,234	3	85	4	-1	
	No Safety Restraints	1,542	5	347	10	39	8	2	
	Intersection	3,567	1	1,975	1	191	1	0	
Roadway	Roadway Departure	2,931	2	1,503	2	98	2	0	
	Motorcycle	1,457	7	597	7	49	7	0	
Special Users	Pedestrian	912	9	452	9	30	9	0	
00010	Bicycle*	280	12	118	12	6	12	0	

Table 3.1 – SHSP Emphasis Areas Analysis

*Bicyclists aren't one of the eleven Utah SHSP emphasis areas but was included as part of the CSAP safety analysis.



4. Historical Crash Analysis

A historical crash data analysis was conducted for the most recent complete 5-year period from 2018 to 2022. This historical crash analysis is primarily focused on fatal and serious injury crashes.

4.1. Overall Crashes

Table 4.1 provides an overview of overall crashes by severity and roadway ownership within the South
 Salt Lake Valley GFA. The data shows the following:

- State Routes recorded 54% of the total crashes in this GFA
- State Routes recorded 31 of 48 fatal crashes in this GFA
- Federal Aid routes recorded 34% of fatal and serious injury crashes in this GFA
- Federal Aid routes recorded 12 of 48 fatal crashes in this GFA
- Local Streets (non-Federal Aid) recorded 12% of fatal and serious injury crashes in this GFA
- Local Streets recorded five of 48 fatal crashes in this GFA

Table 4.1 – Crashes by Severity by Roadway Ownership

Route Type	State Route		Federal Aid Route		Local Street		Overall Total		% of WFRC	
Crash Severity	Crashes		Crashes		Crashes		Crashes		%	
orasir oeventy	#	%	#	%	#	%	#	%		
Fatal	31	0%	12	0%	5	0%	48	0.3%	0.0%	
Suspected Serious Injury	139	1%	96	2%	35	2%	270	1.5%	0.1%	
Suspected Minor Injury	762	8%	579	10%	133	6%	1,474	8.2%	0.8%	
Possible Injury	1,943	20%	1,013	17%	246	11%	3,202	17.9%	1.8%	
No Injury / Property Damage Only	6,770	70%	4,368	72%	1,784	81%	12,922	72.1%	7.2%	
Route Total	9,645	100%	6,068	100%	2,203	100%	17,916	100%	9.9%	

4.2. Fatal and Serious Injury Crashes by Year

Figure 4.1 through **Figure 4.3** provide an overview of fatal and serious injury crashes by year and roadway ownership for the South Salt Lake Valley GFA. The data shows the following:

- Fatal crashes have increased during the most recent 5-year period (2018-2022)
- Serious injury crashes have increased during the most recent 5-year period (2018-2022)

4.3. Fatal and Serious Injury Crashes by Location

Figure 4.4 shows the locations of the fatal and serious injury crashes within the South Salt Lake Valley GFA. Crashes are largely focused on State Routes.

Figure 4.5 is a density map of fatal and serious injury crashes within the South Salt Lake Valley GFA.



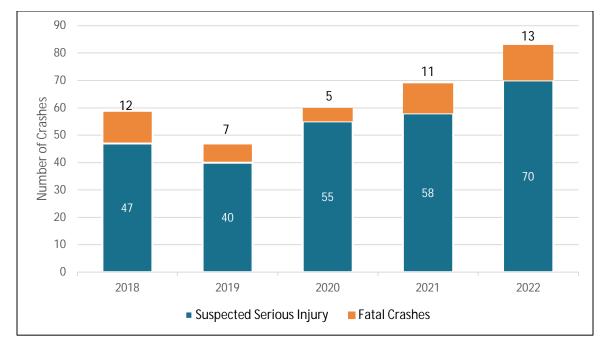
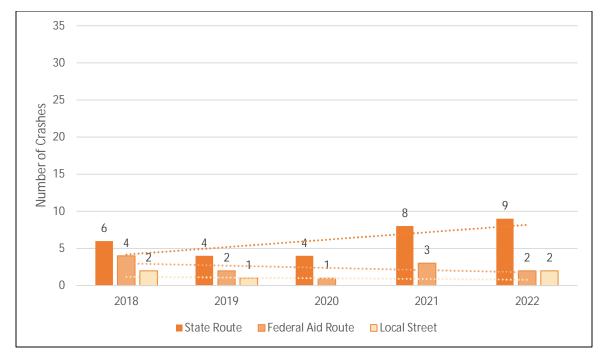


Figure 4.1 – Fatal and Serious Injury Crashes by Year





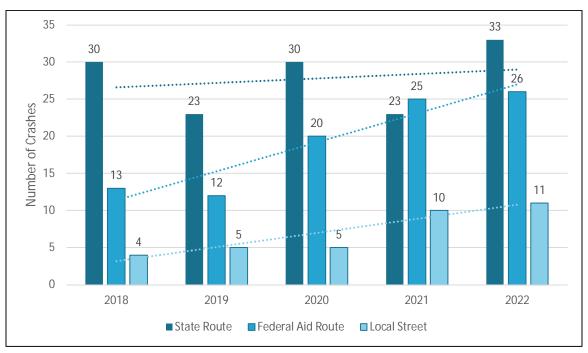


Figure 4.2 – Annual Fatal Crashes by Roadway Ownership

Figure 4.3 – Annual Serious Injury Crashes by Roadway Ownership



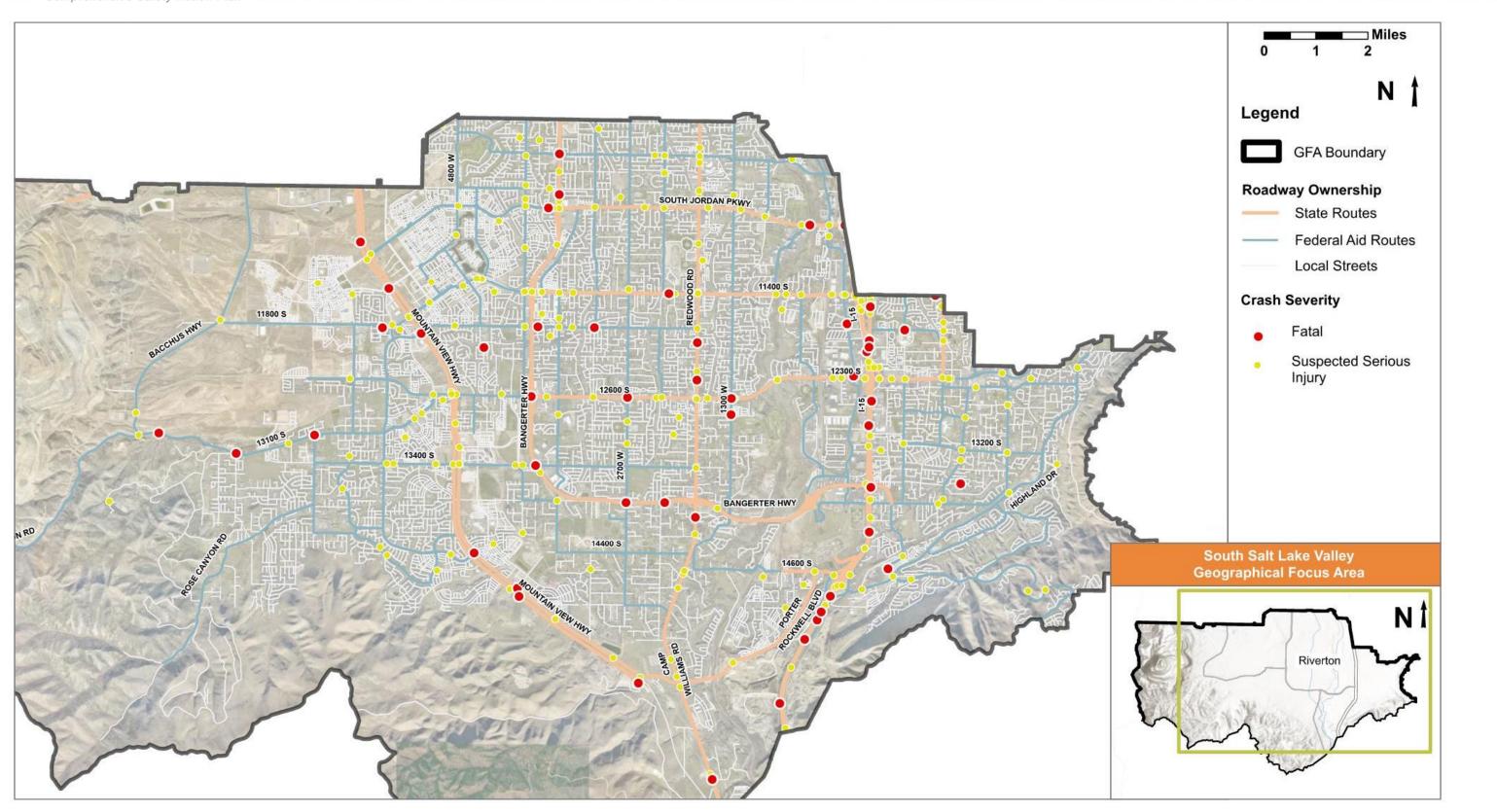


Figure 4.4 – Fatal and Serious Injury Crashes

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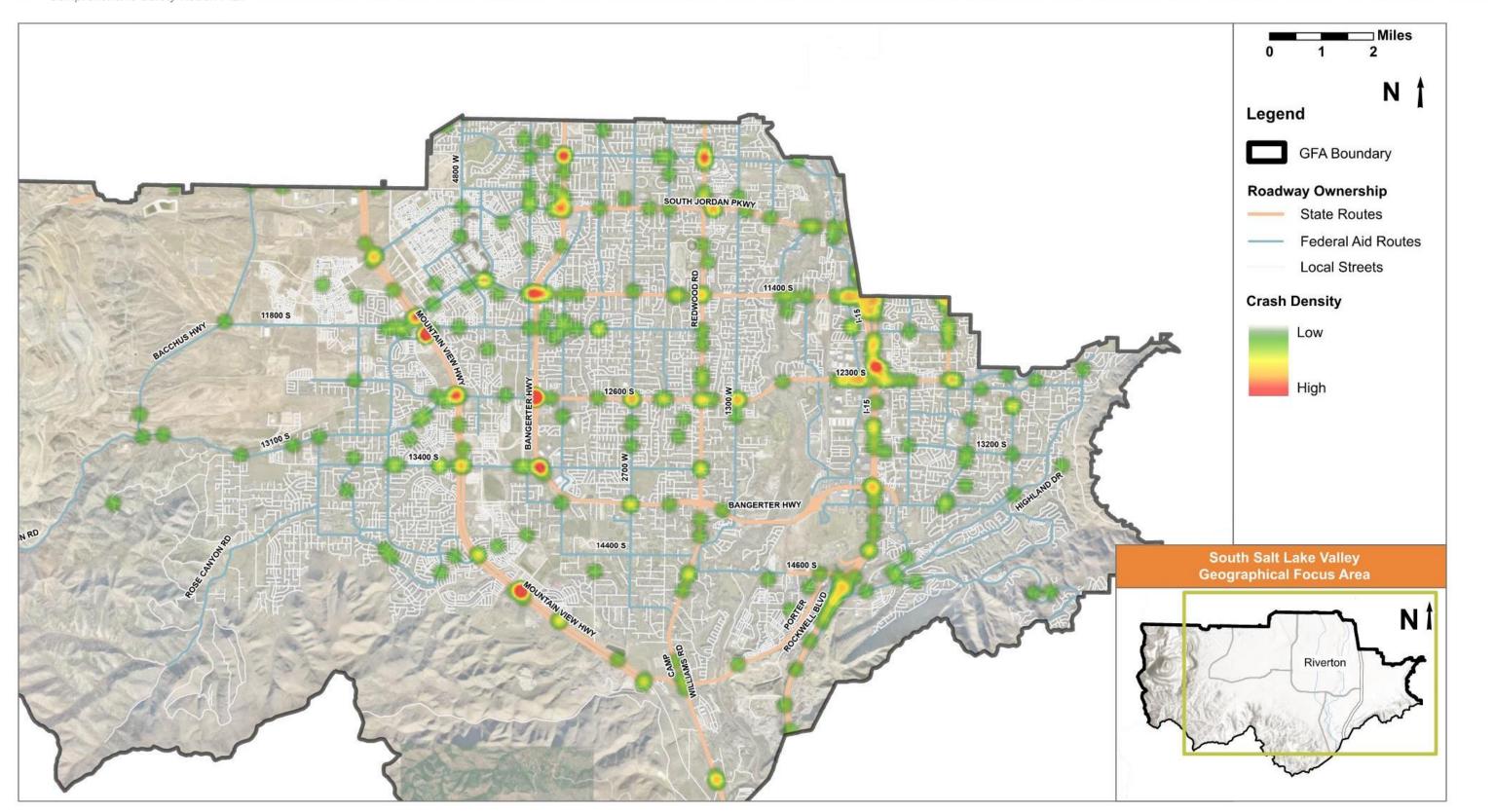


Figure 4.5 – Fatal and Serious Injury Crash Density



4.4. Fatal and Serious Injury Crashes by Crash Type

Figure 4.6 through **Figure 4.8** provide an overview of fatal and serious injury crashes by crash type and roadway ownership for the South Salt Lake Valley GFA. The data shows the following:

- Left turn at Intersection crash type has the highest number of total fatal and serious injuries with 74 crashes
- Roadway Departure has the most frequency of fatal crashes, followed by Active Transportation

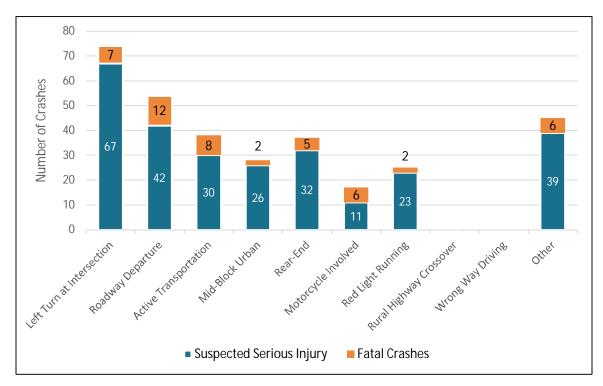


Figure 4.6 – Fatal and Serious Injury Crashes by Crash Type

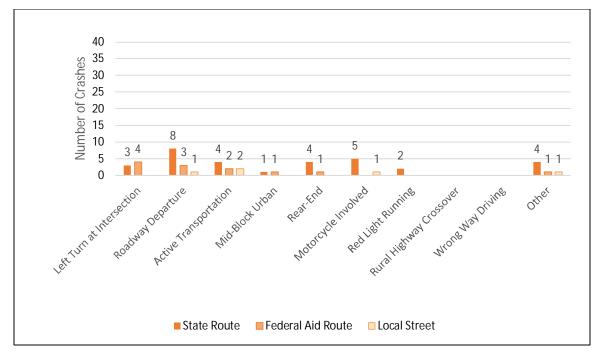


Figure 4.7 – Fatal Crashes by Crash Type and Roadway Ownership

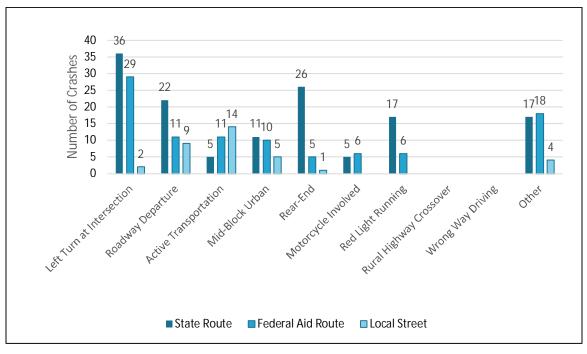


Figure 4.8 – Serious Injury Crashes by Crash Type and Roadway Ownership



4.5. Fatal and Serious Injury Vulnerable User Crashes

Figure 4.9 through **Figure 4.11** provide an overview of fatal and serious injury crashes by vulnerable road user and roadway ownership for the South Salt Lake Valley GFA. The data shows the following:

- There were 8 pedestrian fatal crashes in the five-year analysis period (2018-2022)
- There were no bicycle fatal crashes in the five-year analysis period (2018-2022)
- Motorcycles represent the most frequent fatal and serious injury vulnerable user crashes
- Pedestrian fatal crashes occur on both State Routes and Federal Aid routes

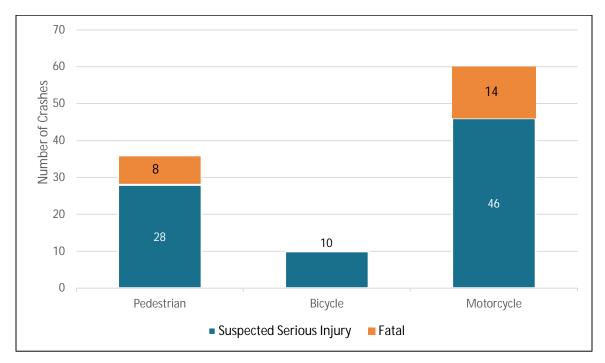


Figure 4.9 – Fatal and Serious Injury Crashes by Vulnerable User



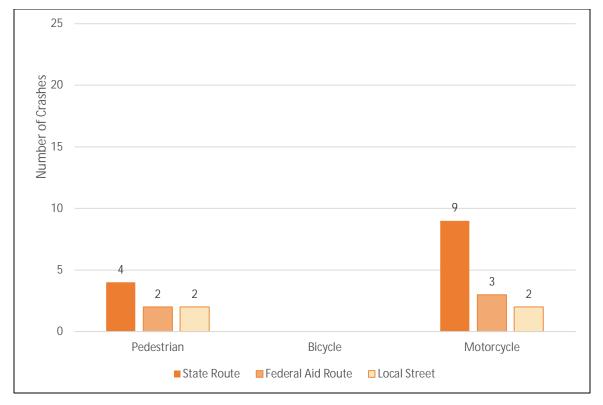


Figure 4.10 – Fatal Crashes by Vulnerable User and Roadway Ownership

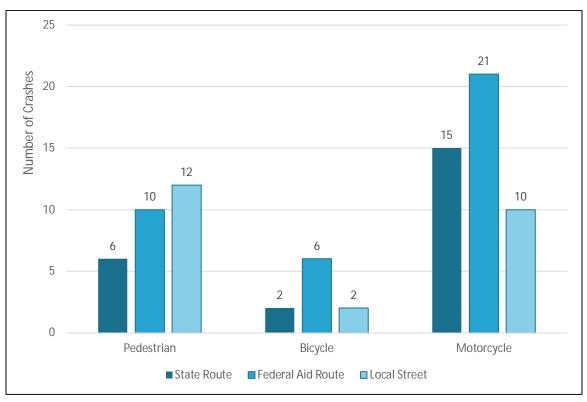


Figure 4.11 – Serious Injury Crashes by Vulnerable User and Roadway Ownership



4.6. Fatal and Serious Injury Crashes by Manner of Collision

Figure 4.12 through **Figure 4.14** provide an overview of fatal and serious injury crashes by manner of collision and roadway ownership for the South Salt Lake Valley GFA. The data shows the following:

- Angle crashes have the highest number of total fatal and serious injuries with 124 crashes
- Angle crashes are closely followed by single vehicle manner of collision
- Most single fatal crashes occurred on State Routes, while severe injury single vehicle crashes was more evenly split between State Routes and Federal Aid routes

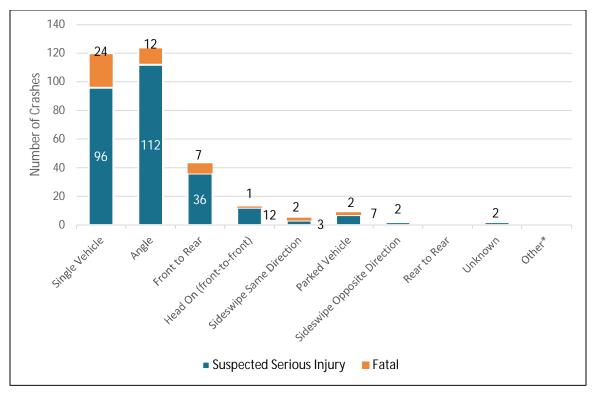
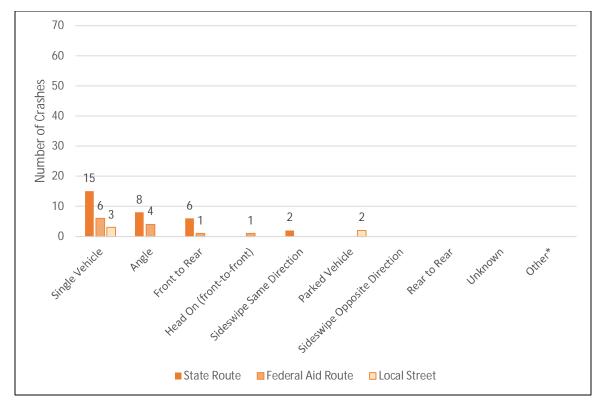
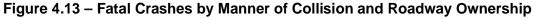


Figure 4.12 – Fatal and Serious Injury Crashes by Manner of Collision







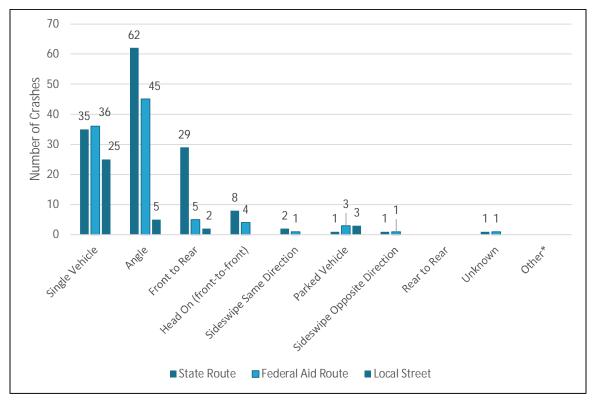


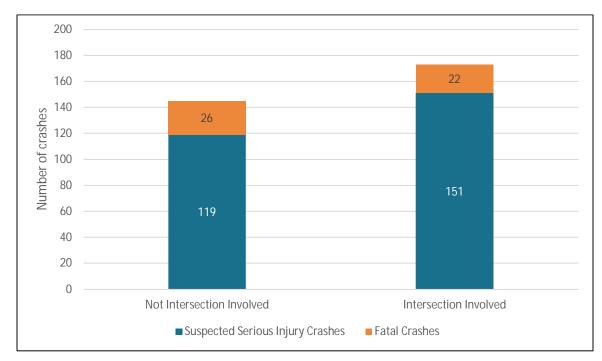
Figure 4.14 – Serious Injury Crashes by Manner of Collision and Roadway Ownership



4.7. Fatal and Serious Injury Intersection Crashes

Figure 4.15 through **Figure 4.17** provide an overview of fatal and serious injury crashes by intersection and roadway ownership for the South Salt Lake Valley GFA. The data shows the following:

 More crashes were Intersection Involved than Not Intersection Involved; however, more fatal crashes occurred were Not Intersection Involved



State Routes accounted for more Intersection Involved and Not Intersection Involved

Figure 4.15 – Fatal and Serious Injury Crashes by Intersection



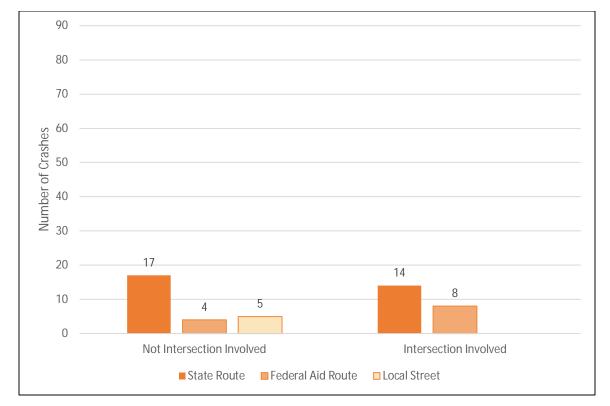


Figure 4.16 – Fatal Crashes by Intersection and Roadway Ownership

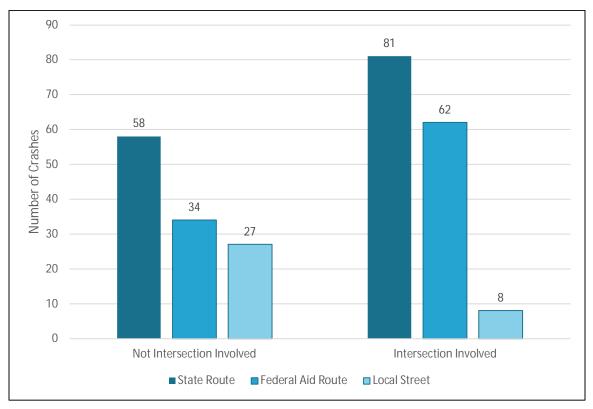


Figure 4.17 – Serious Injury Crashes by Intersection and Roadway Ownership

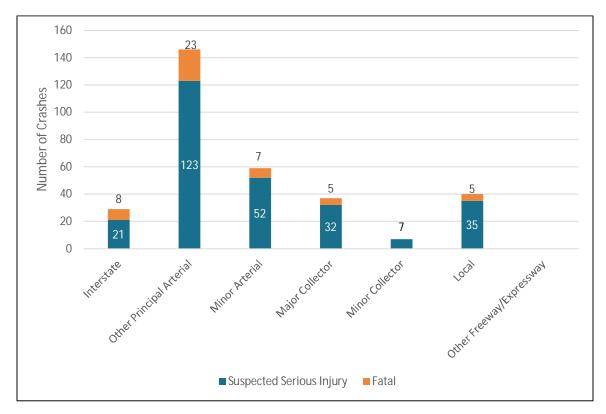
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4.8. Fatal and Serious Injury Crashes by Functional Class

Figure 4.18 through **Figure 4.20** provide an overview of fatal and serious injury crashes by functional class and roadway ownership for the South Salt Lake Valley GFA. The data shows the following:

 Principal Arterial accounted for highest frequency of fatal crashes, and as well as highest frequency of serious injury crashes



All of the Principal Arterial fatal crashes occurred on State Routes

Figure 4.18 – Fatal and Serious Injury Crashes by Functional Class



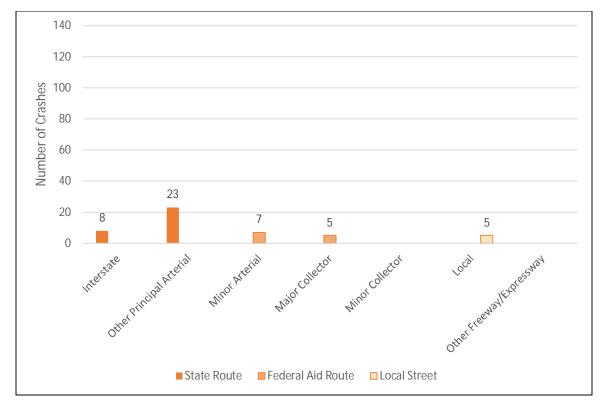


Figure 4.19 – Fatal Injury Crashes by Functional Class and Roadway Ownership

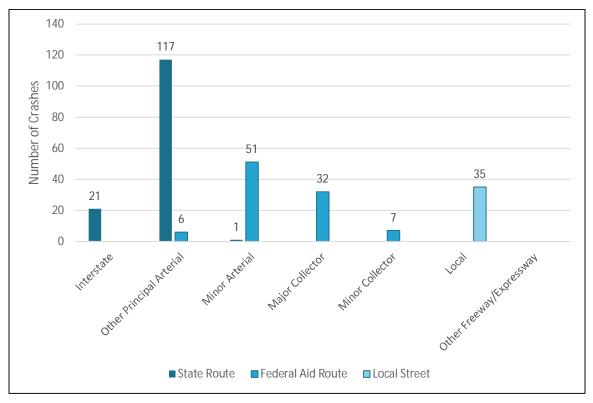


Figure 4.20 – Serious Injury Crashes by Functional Class and Roadway Ownership



4.9. Fatal and Serious Injury Crash Trees Diagrams

Fatal and serious injury crash tree diagrams were generated for the South Salt Lake Valley GFA. These crash tree diagrams are presented in **Figure 4.23** through **Figure 4.22**.

The crash trees are limited to the top 3 categories for crash type and manner of collision. Each crash tree diagram displays the total fatal and serious injury crashes (T), fatal crashes (K), and serious injury crashes (A). The data shows the following:

- There are not rural State Route or Federal Aid crashes in this GFA
- State Routes recorded the highest number of crashes (54%), with Federal Aid at 34% and Local Routes at 13%
- Intersection-related crashes exceed that of non-intersection on State Routes and Federal Aid routes; on Local Streets, non-intersection related crashes exceed intersection-related crashes
- Of the intersection related, Left Turn at intersection was prominent on State Routes and Federal Aid routes



CRASH TYPE

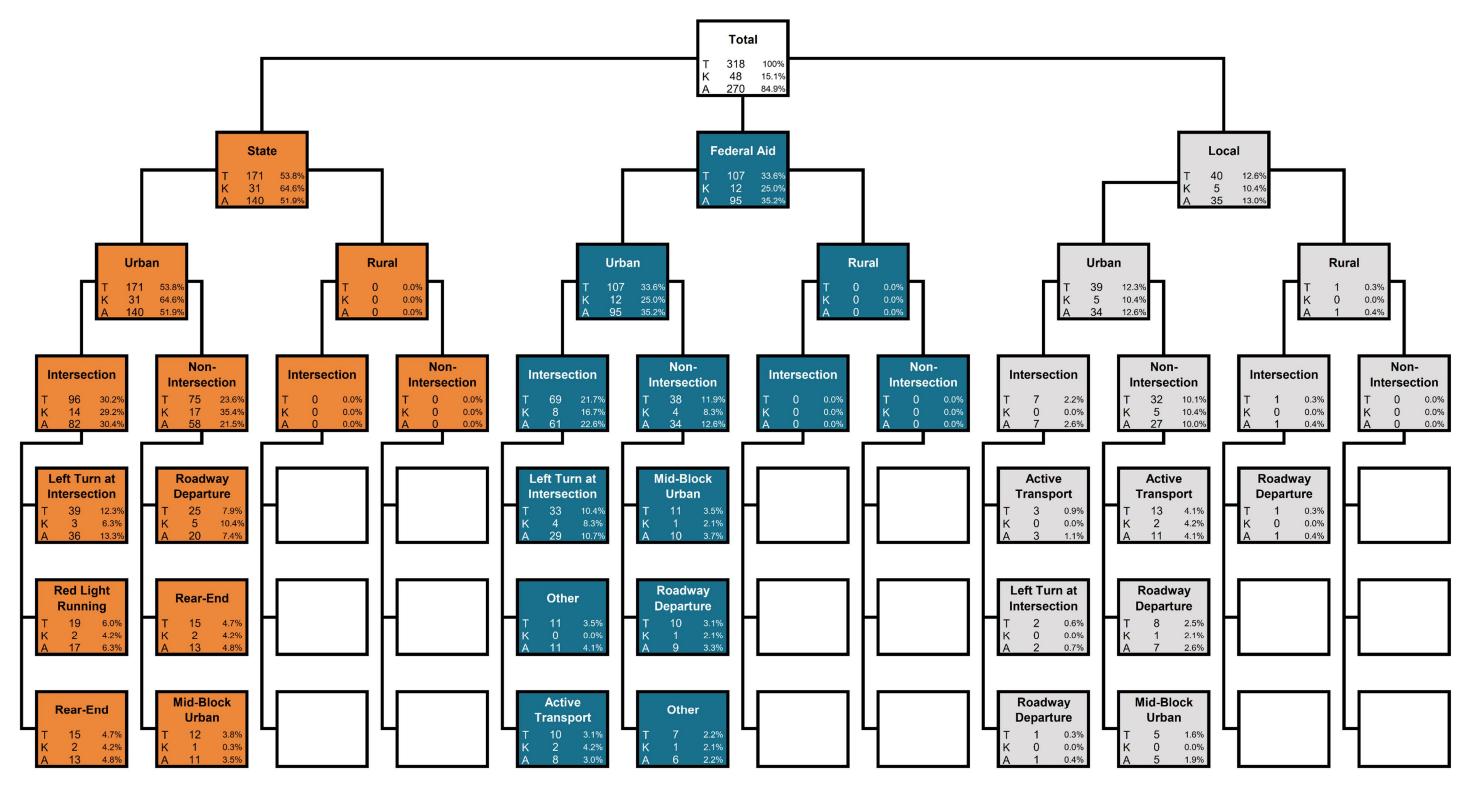


Figure 4.21 – Fatal and Serious Injury Crash Tree Diagram (Crash Type)

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MANNER OF COLLISION

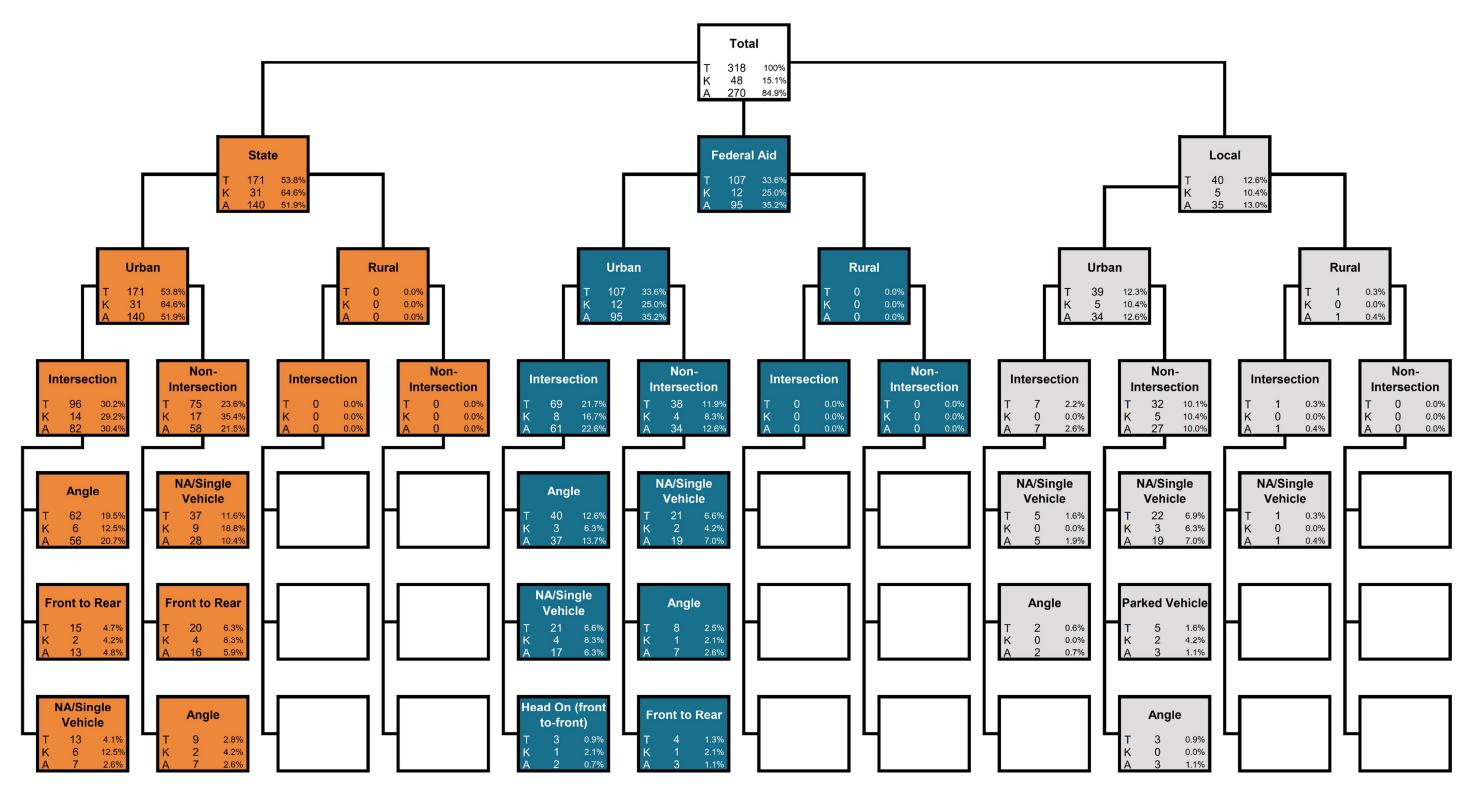


Figure 4.22 – Fatal and Serious Injury Crash Tree Diagram (Manner of Collision)

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ACTIVE TRANSPORTATION

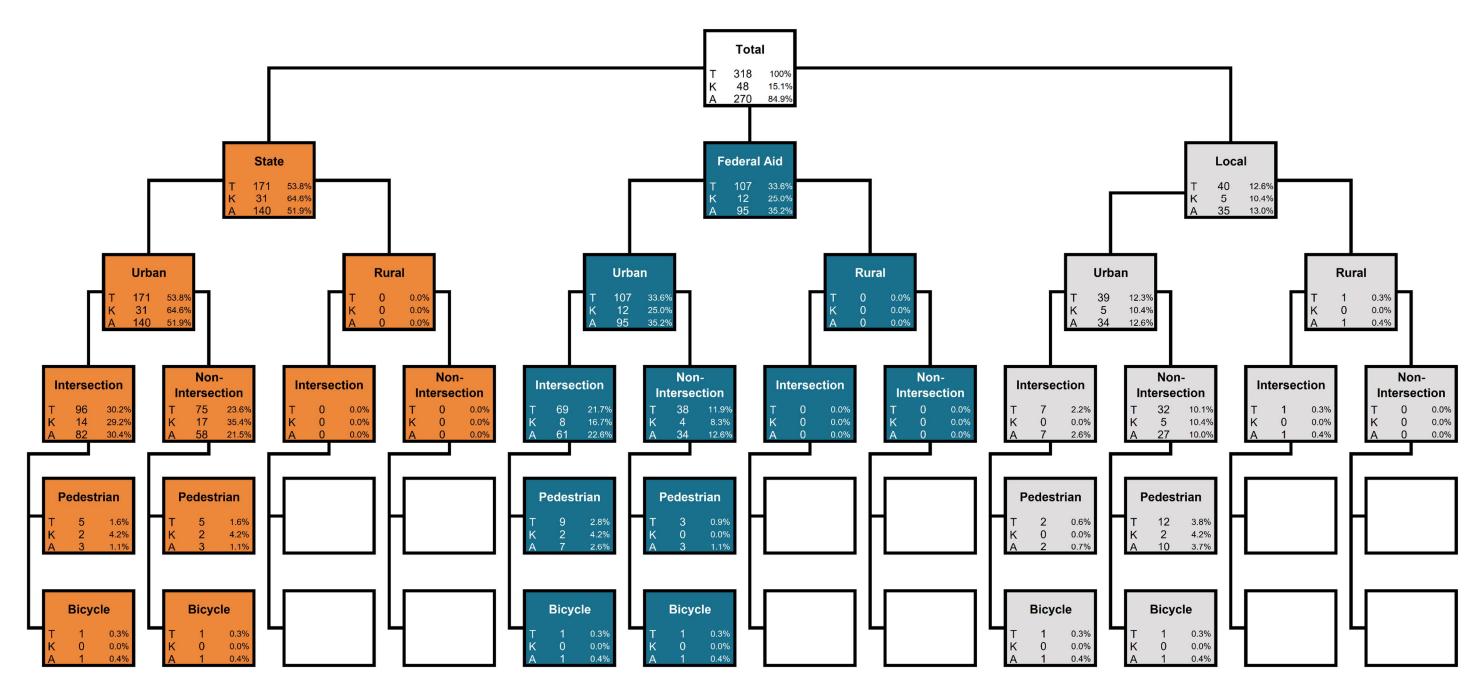


Figure 4.23 – Fatal and Serious Injury Crash Tree Diagram (Active Transportation)

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5. Crash and Network Screening Analysis

A crash and network screening analysis was prepared for the South Salt Lake Valley GFA informed by four sub-analyses:

- Number of Crashes
- Critical Crash Rate (CCR)
- Probability of a Specific Crash Type Exceeding Threshold Proportion
- Equivalent Property Damage Only (EPDO)

CCR Differential by roadway ownership are mapped in the following figures:

- Figure 5.1 CCR Differential Segments (State Routes)
- Figure 5.2 CCR Differential Segments (Federal Aid Routes)
- Figure 5.3 CCR Differential Segments (Local Routes)
- Figure 5.4 CCR Differential Intersections (Signalized)
- Figure 5.5 CCR Differential Intersections (Unsignalized)

A positive Local CCR Differential is an indication of a location with a potential for safety improvement (PSI).

A list of the top 10 CCR Differential segments and intersections for the South Salt Lake Valley GFA are located in **Table 5.1** and **Table 5.2** along with their associated number of crashes, probability of a specific crash type exceeding threshold proportion, and EPDO analysis results.

These locations represent those with the highest potential for safety improvements and can be considered as project candidate locations.



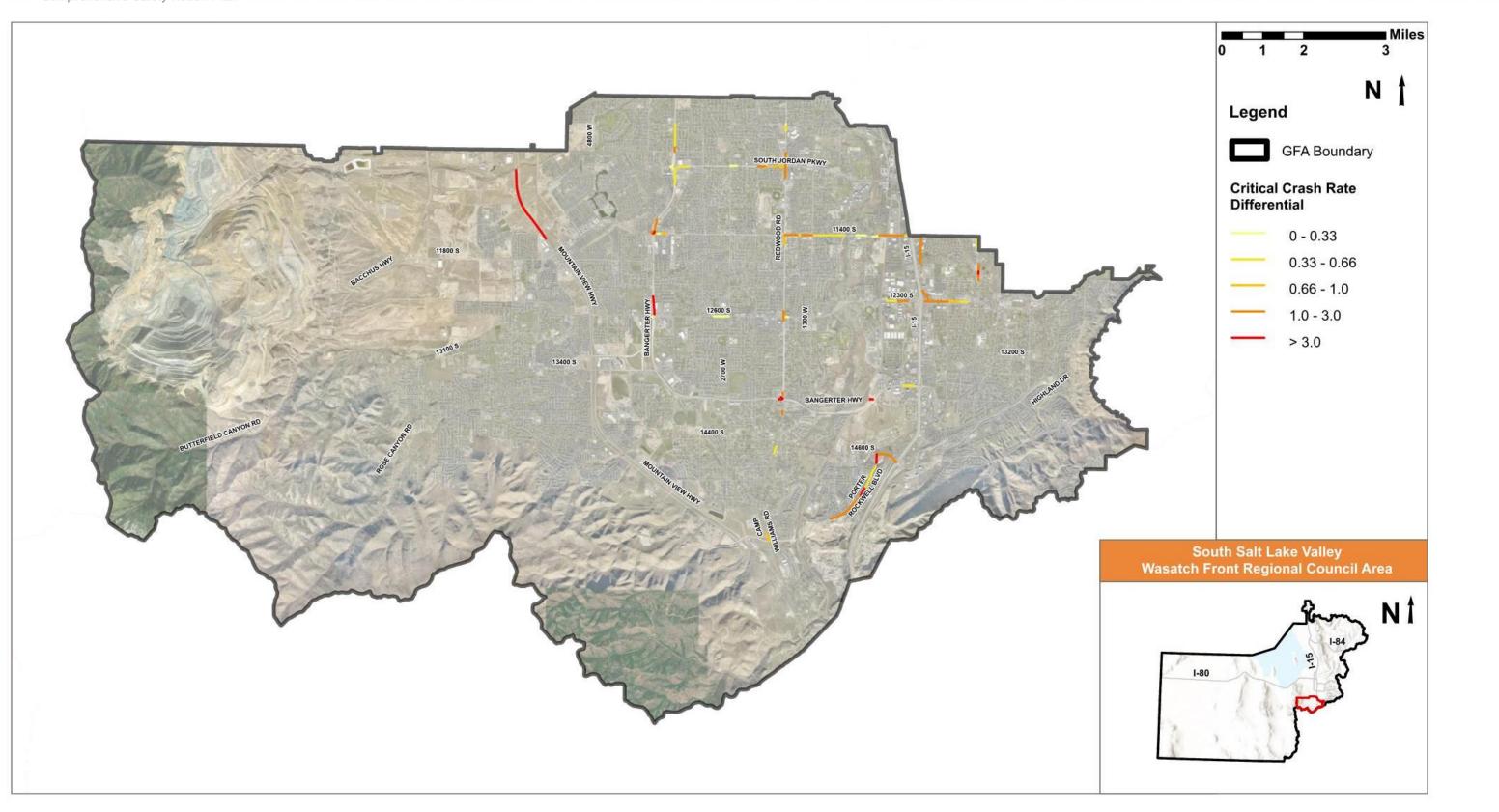


Figure 5.1 – CCR Differential – Segments (State Routes)



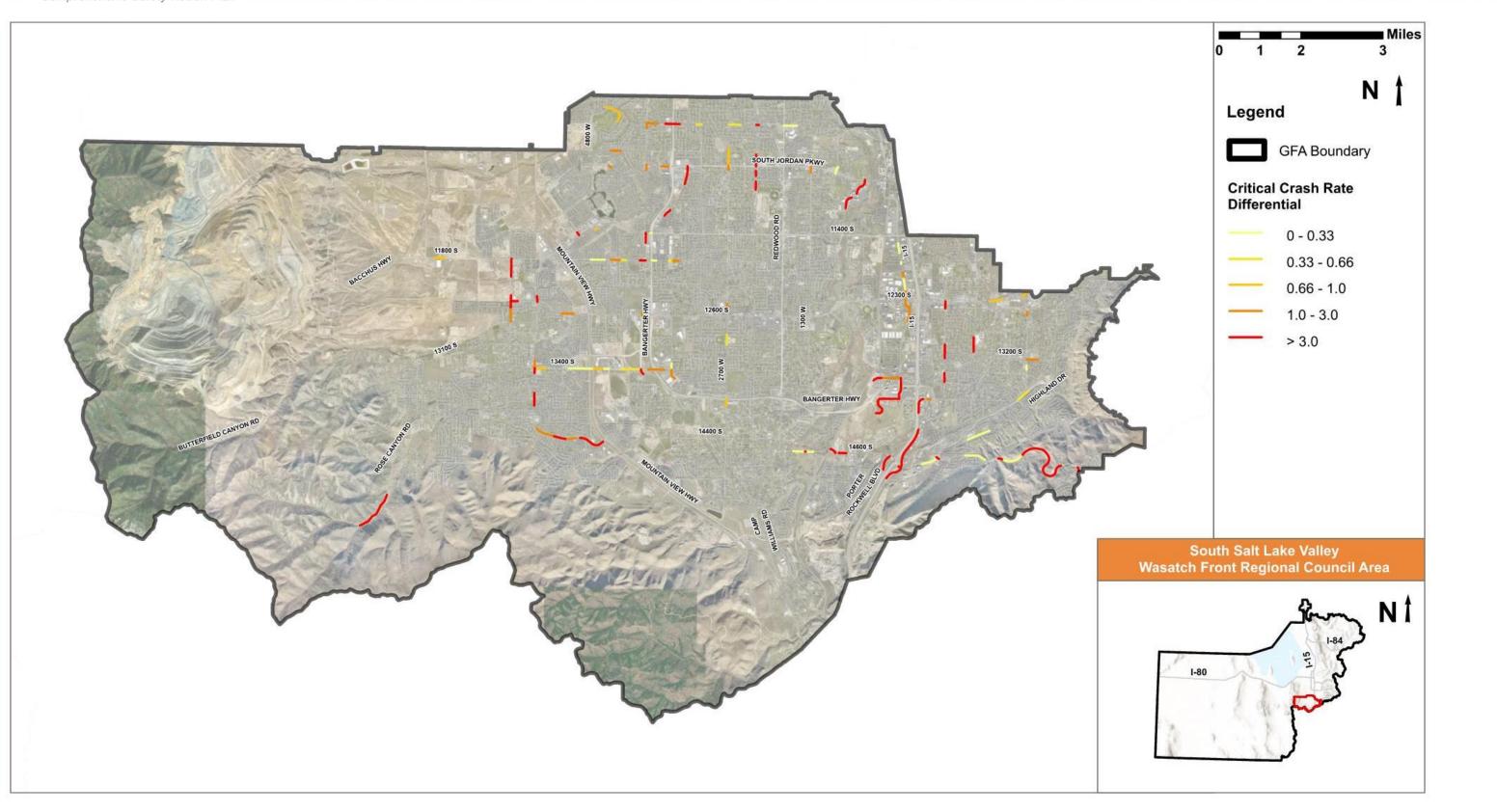


Figure 5.2 – CCR Differential – Segments (Federal Aid Routes)



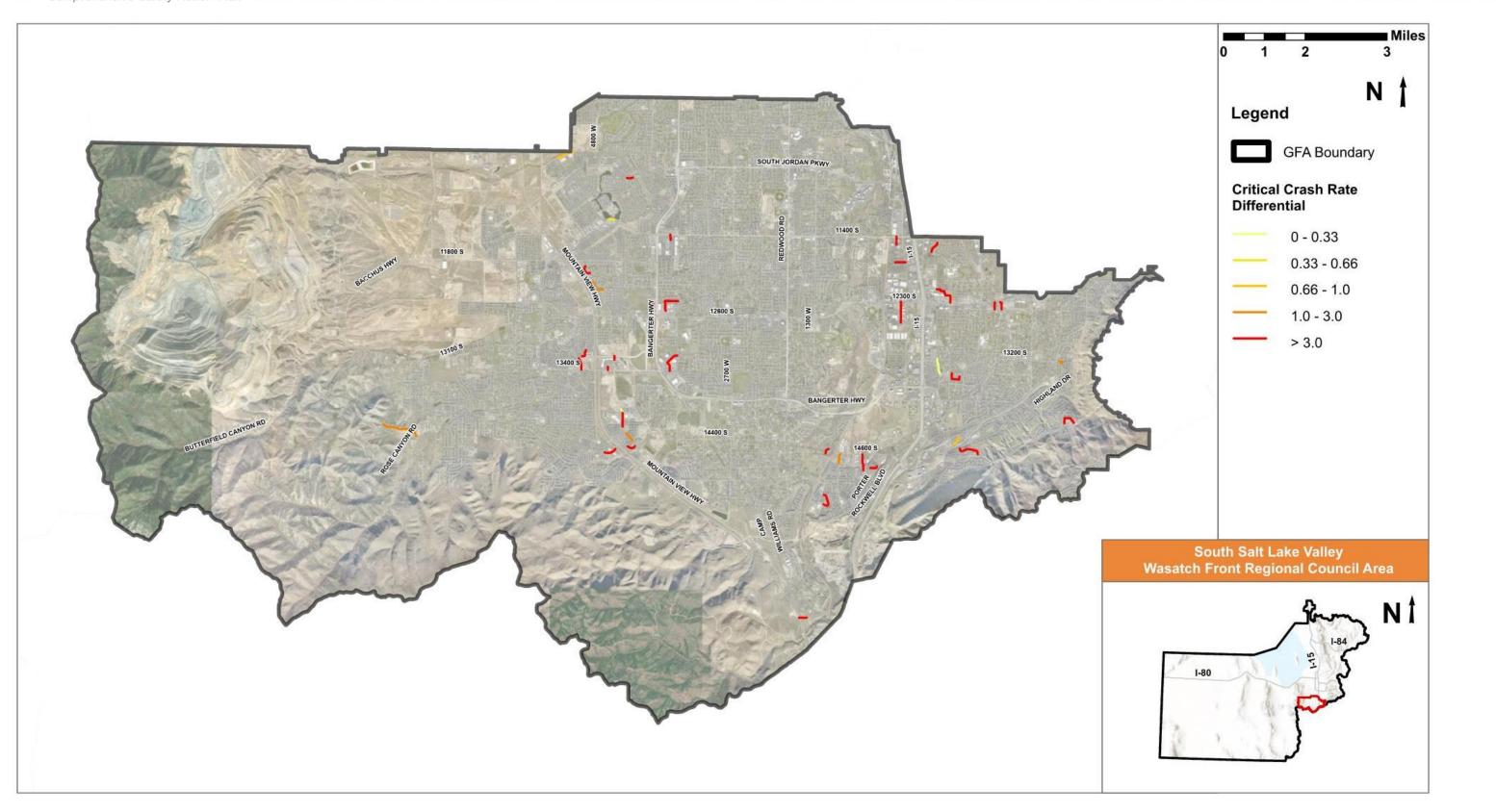


Figure 5.3 – CCR Differential – Segments (Local Routes)



Table 5.1 – Crash and Network Screening Analysis Results - Segments

Facility	Limits	Functional Classification	City	Crashes	Critical Crash Rate Differential	EPD0 ¹	Fatal	Suspected Serious Injury	Suspected Minor Injury	Possible Injury	No Injury/PDO	Angle	Front to Rear	Head On	Single Vehicle	Parked Vehicle	Rear to Rear		Sideswipe (Same Direction)	Sideswipe (opposite Direction)	Other/Unknown	Pedestrian	Bicycle	Motorcycle
State Routes																								
Bangerter Hwy (SR-154)	SB Ramp to 600 W	Other Principal Arterial	Draper	9	132.3	30	0	0	1	0	8	0	4	0	1	0	0	0	0	4	0	0	0	0
Bangerter Hwy (SR-154)	NB Ramp to 12600 S	Other Principal Arterial	Riverton	3	121.3	46	0	0	2	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0
Bangerter Hwy (SR-154)	WB Ramp to Redwood Rd	Other Principal Arterial	Riverton	14	46.4	66	0	0	1	3	10	1	6	1	3	0	0	0	0	3	0	0	0	0
Bangerter Hwy (SR-154)	11400 S to NB Ramp	Other Principal Arterial	South Jordan	9	32.0	19	0	0	0	1	8	0	2	0	2	2	0	0	0	3	0	0	0	0
Porter Rockwell Blvd (SR-131)	Freedom Point way to 15100 S	Other Principal Arterial	Bluffdale	4	8.9	14	0	0	0	1	3	0	0	0	3	0	0	0	0	1	0	0	0	0
Mountain View Hwy (SR-85 SB)	Lake Ave to South Jordan Pkwy	Other Principal Arterial	South Jordan	10	7.2	208	0	1	3	4	2	1	4	0	5	0	0	0	0	0	0	0	0	0
700 E (SR-71)	11900 S to Kimballs Ln	Other Principal Arterial	Draper	9	5.2	122	0	1	0	2	6	1	7	0	1	0	0	0	0	0	0	0	0	1
Mountain View Hwy (SR-85 SB)	South Jordan Pkwy to Bingham Creek	Other Principal Arterial	South Jordan	9	4.9	927	1	0	0	3	5	0	3	0	6	0	0	0	0	0	0	0	0	0
Porter Rockwell Blvd (SR-131)	Rising Star Way to 14600 S	Other Principal Arterial	Bluffdale	3	4.8	24	0	0	1	0	2	0	2	0	1	0	0	0	0	0	0	0	1	0
Mountain View Hwy (SR-85 SB)	Lake Ave to Private Driveway	Other Principal Arterial	South Jordan	3	4.4	13	0	0	0	1	2	0	1	0	1	0	0	0	0	0	1	0	0	0
Federal Aid Routes		· ·	1																					
Lake Run Rd	Daybreak Pkwy to Frogs Leap Dr	Major Collector	South Jordan	3	200.6	35	0	0	1	1	1	0	1	0	2	0	0	0	0	0	0	0	0	0
4050 W	Innovation Dr to 13400 S	Major Collector	Riverton	6	46.8	6	0	0	0	0	6	1	1	0	1	0	0	0	0	1	2	0	0	0
River Heights Dr	Summer Heights Dr to Vista Pradera Wa	Minor Collector	South Jordan	8	43.4	71	0	0	2	2	4	2	1	0	2	3	0	0	0	0	0	0	0	0
Bluffdale Blvd	1328 W to 1300 W	Minor Arterial	Bluffdale	3	29.6	3	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0
River Heights Dr	Logan Canyon Rd to 10400 S	Minor Collector	South Jordan	12	28.5	75	0	0	2	2	8	6	0	1	2	0	0	0	1	2	0	1	0	0
Traverse Ridge Rd	Highland Dr to Traverse Pointe Dr	Minor Arterial	Draper	4	26.9	4	0	0	0	0	4	2	0	0	2	0	0	0	0	0	0	0	0	0
Traverse Ridge Rd	Private Driveway to Mike Weir Dr	Minor Arterial	Draper	5	26.7	5	0	0	0	0	5	0	1	0	3	0	0	0	0	1	0	0	0	1
700 E	Fox Meadow Dr to Golden Pheasant Dr	Minor Collector	Draper	4	25.5	25	0	0	1	0	3	2	1	0	1	0	0	0	0	0	0	0	0	1
700 E	Golden Pheasant Dr to Pheasant View I		Draper	6	23.5	16	0	0	0	1	5	2	0	0	2	0	0	0	0	0	2	0	0	0
2200 W	10400 S to Temple View Ln	Major Collector	South Jordan	11	22.3	32	0	0	1	0	10	2	5	0	0	2	0	1	0	0	-	0	0	0
Local Streets			boutinsortun		22.0	02	Ű	Ű		U	10	-	Ū	J	9	-	0	•	Ū	Ű		9		
300 W	Opportunity Way to 11400 S	Local	Draper	3	463.3	35	0	0	1	1	1	0	3	0	0	0	0	0	0	0	0	0	0	1
Jordan Narrows Rd	Camp Williams Rd to 1400 W	Local	Bluffdale	3	278.5	13	0	0	0		2	0	1	0	1	0	0	0	0	1	0	0	0	0
Heritagecrest Way	Concord Park Dr to 14600 S	Local	Bluffdale	6	192.2	48	0	0	1	2	3	3	0	0	0	3	0	0	0	0	0	0	0	1
Spring View Pkwy	14600 S to Stone Fly Cir	Local	Bluffdale	3	184.3	3	0	0	0	0	3	0	1	0	2	0	0	0	0	0	0	0	0	0
Koins Way	Rising Star Way to Life Dr	Local	Bluffdale	3	180.0	3	0	0	0	0	3	2	0	0	2 1	0	0	0	0	0	0	0	0	0
Emma Mine Dr	Mineral Way to Dynamic Cir	Local	Herriman	4	175.3	14	0	0	0	1	3	0	0	1	1	1	0	0	1	0	0	0	0	0
	Puma Mountain Way to Cantle Dr	Local	Bluffdale	3	129.1	3	0	0	0	0	3	1	1	0	0				0	0	1	0	0	0
Park Bluff Way Parkway Plaza Dr	11500 S to 11400 S	Local	South Jordan	3	129.1	13	0	0	0	1	3 2	2	0	0	1	0	0	0	0	0	0	1	0	0
12200 S		Local		3					-					0	1							1		0
	Spencer Peak Way to 300 E		Draper		86.3	3	0	0	0	0	3	2	0			0	0	0	0	0	0	0	0	-
Spencer Peak Way	150 E to 12175 S	Local	Draper	3	81.5	13	0	0	0		2	0	0	0	2	0	0	0	0	Т	0	0	0	0
1. Equivalent Property Damage	Equivalent Property Damage Only Crashes = 90 - 100% probability that crash type is over-represented = 80 - 90% probability that crash type is over-represented = 70 - 80% probability that crash type is over-represented																							

A10-33



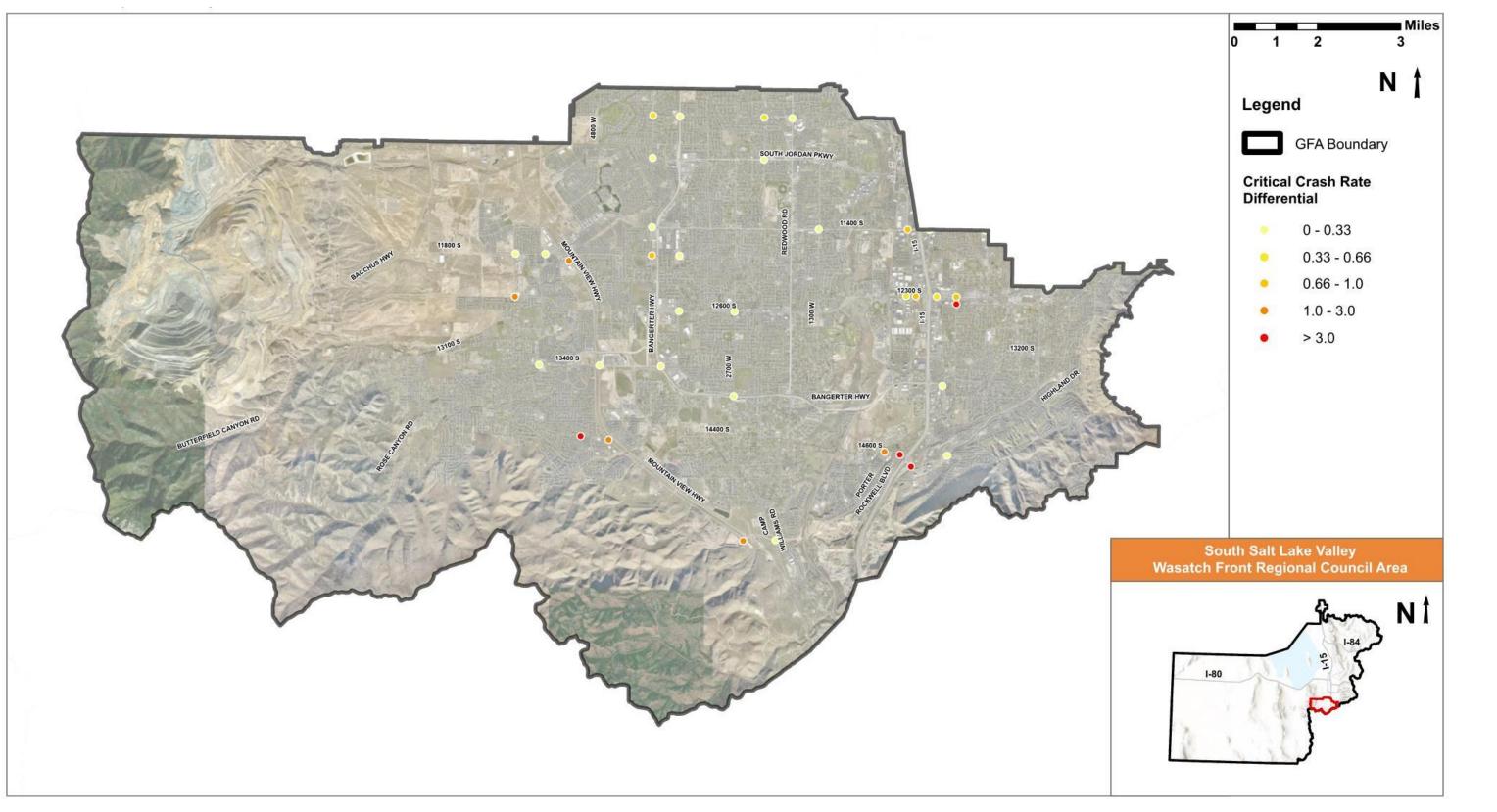


Figure 5.4 – CCR Differential – Intersections (Signalized)



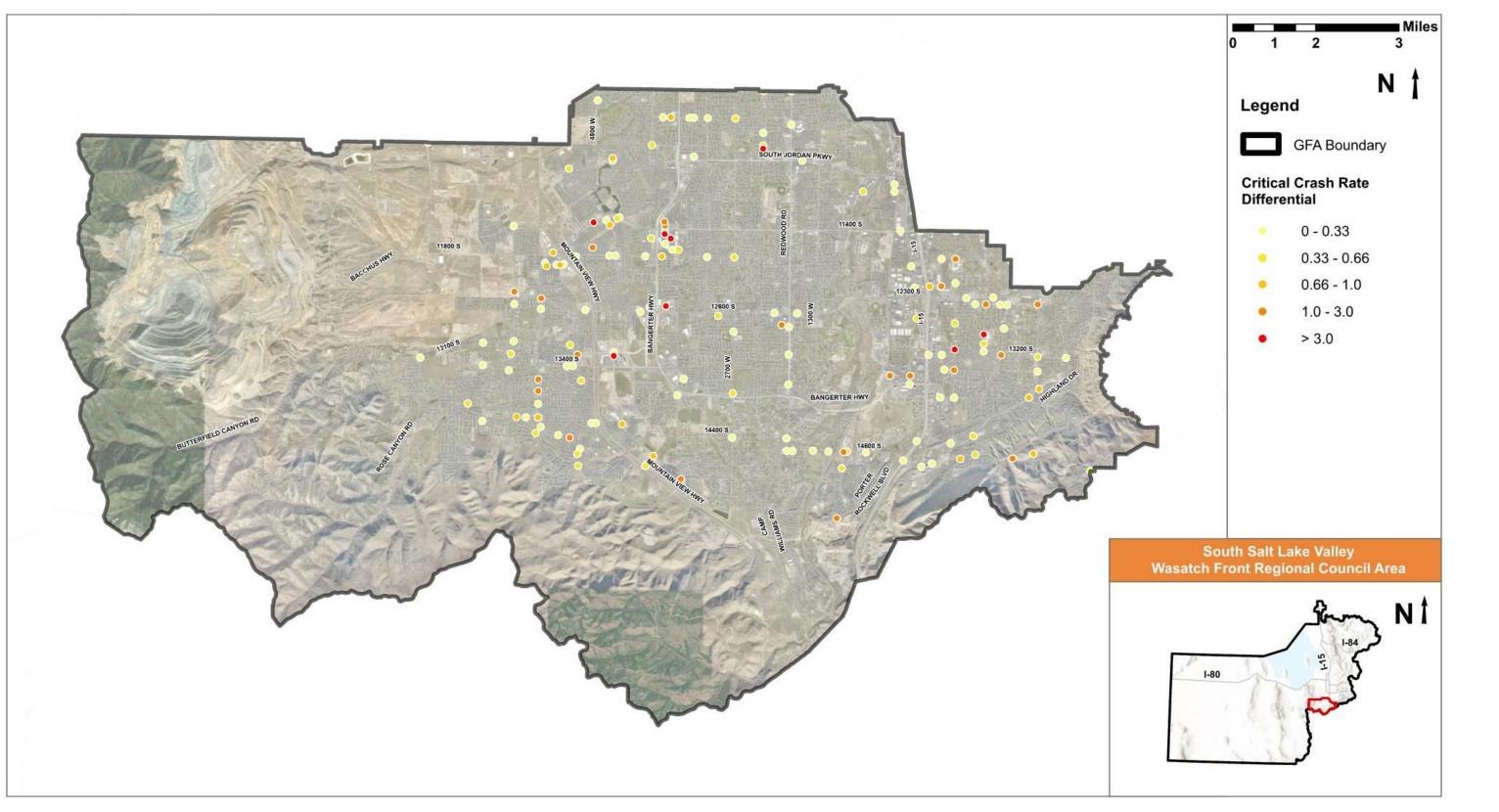


Figure 5.5 – CCR Differential – Intersections (Unsignalized)



Intersection	City	Crashes	Critical Crash Rate Differential	EPDO ¹	Fatal	Suspected Serious Injury	Suspected Minor Injury	Possible Injury	No Injury/PDO	Angle	Front to Rear	Head On	Parked Vehicle	Single Vehicle	Rear to Rear	Rear to Side	Sideswipe (Same Direction)	Sideswipe (opposite Direction)	Other/Unknown	Pedestrian	Bicycle	Motorcycle
Signalized Intersections																						
Minuteman Dr & Highland Dr	Draper	72	7.5	387	0	0	8	14	50	38	26	1	2	0	0	0	0	4	1	0	1	0
Palisade Rose Dr & Rosecrest Rd	Herriman	25	5.0	87	0	0	0	6	19	18	5	0	2	0	0	0	0	0	0	0	0	0
300 E & 12450 S	Draper	21	3.6	52	0	0	0	3	18	8	6	0	3	0	0	0	1	2	1	0	1	0
Pony Express Rd & Highland Dr	Bluffdale	46	3.1	349	0	1	5	10	30	21	14	2	5	1	0	1	0	1	1	0	1	0
Porter Rockwell Blvd & Bluffdale Blvd	Bluffdale	37	3.0	256	0	1	4	4	28	4	29	1	1	0	0	0	0	1	1	0	0	1
Mountain View Sb Hwy & Anthem Park Blvd	Herriman	82	2.9	1719	1	4	10	16	51	38	32	2	4	0	0	0	2	2	2	2	1	0
Rockwell Park Ln & Shocky Access	Herriman	25	2.9	1007	1	0	2	5	17	2	7	0	14	0	1	0	0	1	0	0	0	0
Mustang Trail Way & Herriman Blvd	Herriman	16	2.6	101	0	0	3	2	11	9	4	1	1	1	0	0	0	0	0	1	0	0
Mountain View Sb Hwy & Rosecrest Rd	Herriman	40	1.2	167	0	0	4	4	32	14	17	0	3	0	0	0	0	5	1	1	0	0
4000 W & 11800 S	South Jorda	n 39	1.0	363	0	1	6	10	22	22	12	1	3	0	0	0	0	1	0	1	1	1
Unsignalized Intersections																				-		
2200 W & Temple View Ln	South Jorda	n 17	6.9	38	0	0	0	2	15	10	7	0	0	0	0	0	0	0	0	0	0	0
300 E & Carlquist Dr Roundabout	Draper	26	5.3	171	0	1	1	3	21	7	9	0	6	0	0	0	0	2	2	0	0	0
Creek Meadow Rd & Creek Meadow Rd	Riverton	10	4.9	41	0	0	0	3	7	10	0	0	0	0	0	0	0	0	0	0	0	0
District Dr & 11500 S	South Jorda	n 10	4.1	20	0	0	0	1	9	10	0	0	0	0	0	0	0	0	0	0	0	0
Parkway Plaza Dr & 11550 S	South Jorda	n 4	3.7	14	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0
Oakmond Rd & Oakmond Rd	South Jorda	n 8	3.5	18	0	0	0	1	7	1	4	0	2	0	0	0	0	1	0	0	0	0
Charger Way & Pheasant View Dr Draper		4	3.2	25	0	0	0	2	2	2	1	0	0	0	0	0	0	1	0	0	0	0
Eagles Flight Rd & Teal Ridge Way Riverton		5	3.1	15	0	0	0	1	4	3	2	0	0	0	0	0	0	0	0	0	0	0
Anthem Park Blvd & Herriman Blvd Herriman		13	2.8	45	0	0	1	1	11	4	7	1	1	0	0	0	0	0	0	0	1	0
Mike Weir Dr & Traverse Ridge Rd Draper		9	2.6	51	0	0	1	2	6	2	1	0	4	1	0	0	0	1	0	0	1	0
1. Equivalent Property Damage Only Crashes		= 80	- 100% p - 90% pro - 80% pro	obabil	ity th	at cras	sh typ	e is ov	/er-re	prese	nted											



6. Roadway Characteristic Risk Analysis

A roadway characteristic risk analysis was performed using the following three sub-analysis:

- Crash Profile Risk Assessment
- usRAP Risk Assessment
- Local Street Risk Assessment

6.1. Crash Profile Risk Assessment

This risk assessment sub-analysis identifies common roadway characteristics for fatal and serious injury crashes that occurred within the WFRC study area. Based on the scoring of the various roadway characteristic risks identified from analysis of crash reports, a risk score was assigned to all state and federal aid routes within the South Salt Lake Valley GFA consistent with the methodology described in Tech Memo #1 Section 3.4. The results of the Crash Profile Risk Assessment are mapped in the following figures:

- Figure 6.1 Crash Profile Risk Assessment Results (State Routes)
- Figure 6.2 Crash Profile Risk Assessment Results (Federal Aid Routes)

Table 6.1 provides an overview of urban and rural segments with the highest risk scoring. Up to ten urban and rural segments are listed if the segment received at least 67% of the overall total risk score.

Area Type	Road Segment	Extents	Risk Score
Urban	Jordan Gateway	12300 South to North GFA Extents	25
Urban	4000 West	12600 South to North GFA Extents	23 to 25
Urban	Draper Parkway	700 East to 1300 East	22.8
Urban	Daybreak Rim Way / Daybreak Parkway	Oakmond Road to Bangerter Highway	22.1
Urban	11800 South	Bacchus Highway to SR-85	20.2 to 21
Urban	14600 South	Camp Williams Road to 800 West	20.4 to 20.5
Urban	1300 East	13700 South to 13200 South	20.2
Urban	Pony Express Road	South GFA Extent to 14600 South	20
Rural	Rose Canyon Road	13400 South to 13100 South	22.3
Rural	13400 South	Rose Canyon Drive to SR-85	22.3
Rural	12600 South	Main Street to Bangerter Highway	21.5 to 21.9
Rural	13100 South	Butterfield Canyon Road to Rosecrest Road	21
Rural	Bacchus Highway	Truck Road to Old Bingham Highway	20.6
Rural	Rose Canyon Road	Yellow Fork Canyon to 6400 West	20.2

Table 6.1 – Crash Profile Risk Segments (Federal Aid Routes)



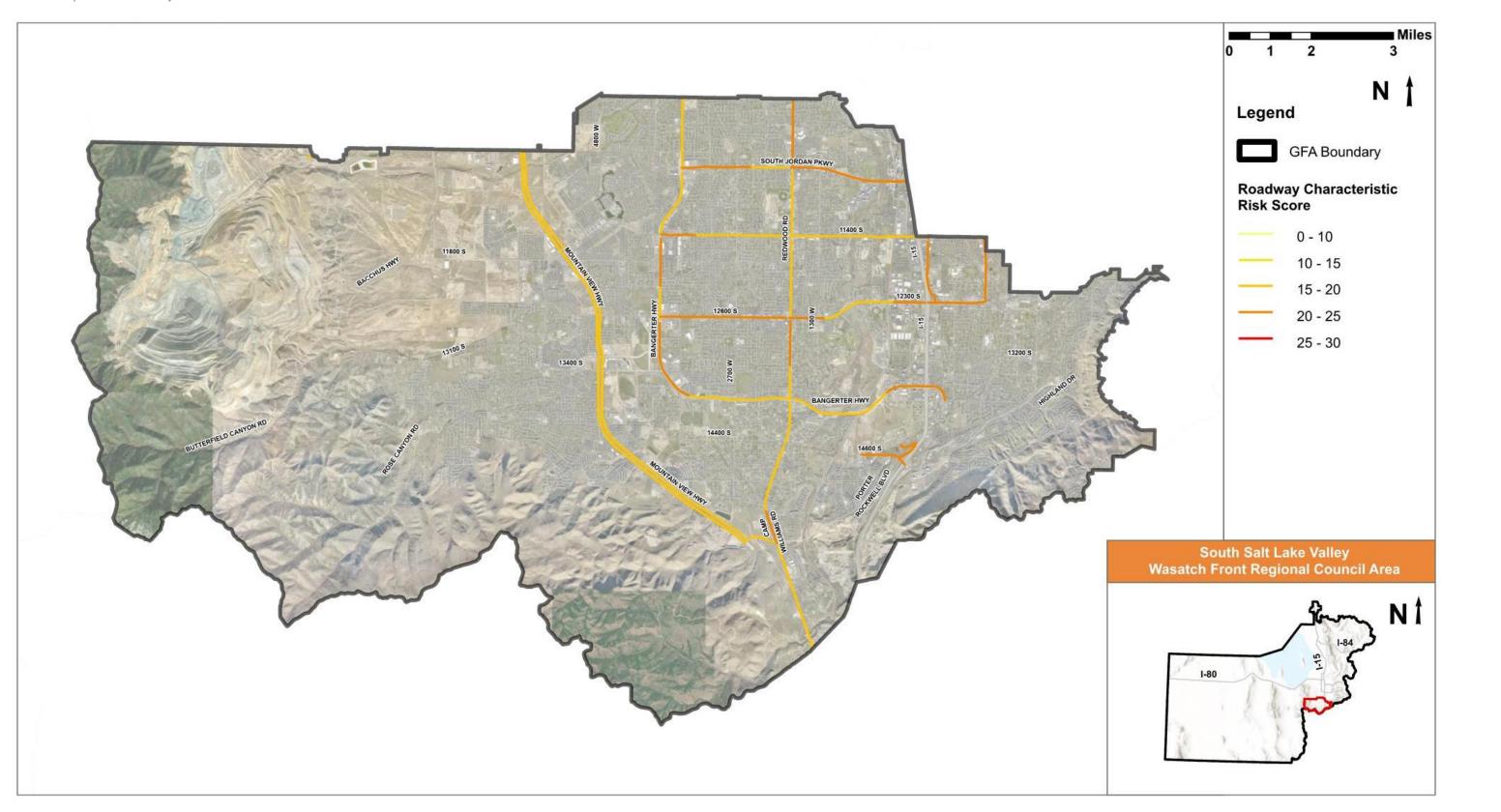


Figure 6.1 – Crash Profile Risk Assessment Results (State Routes)



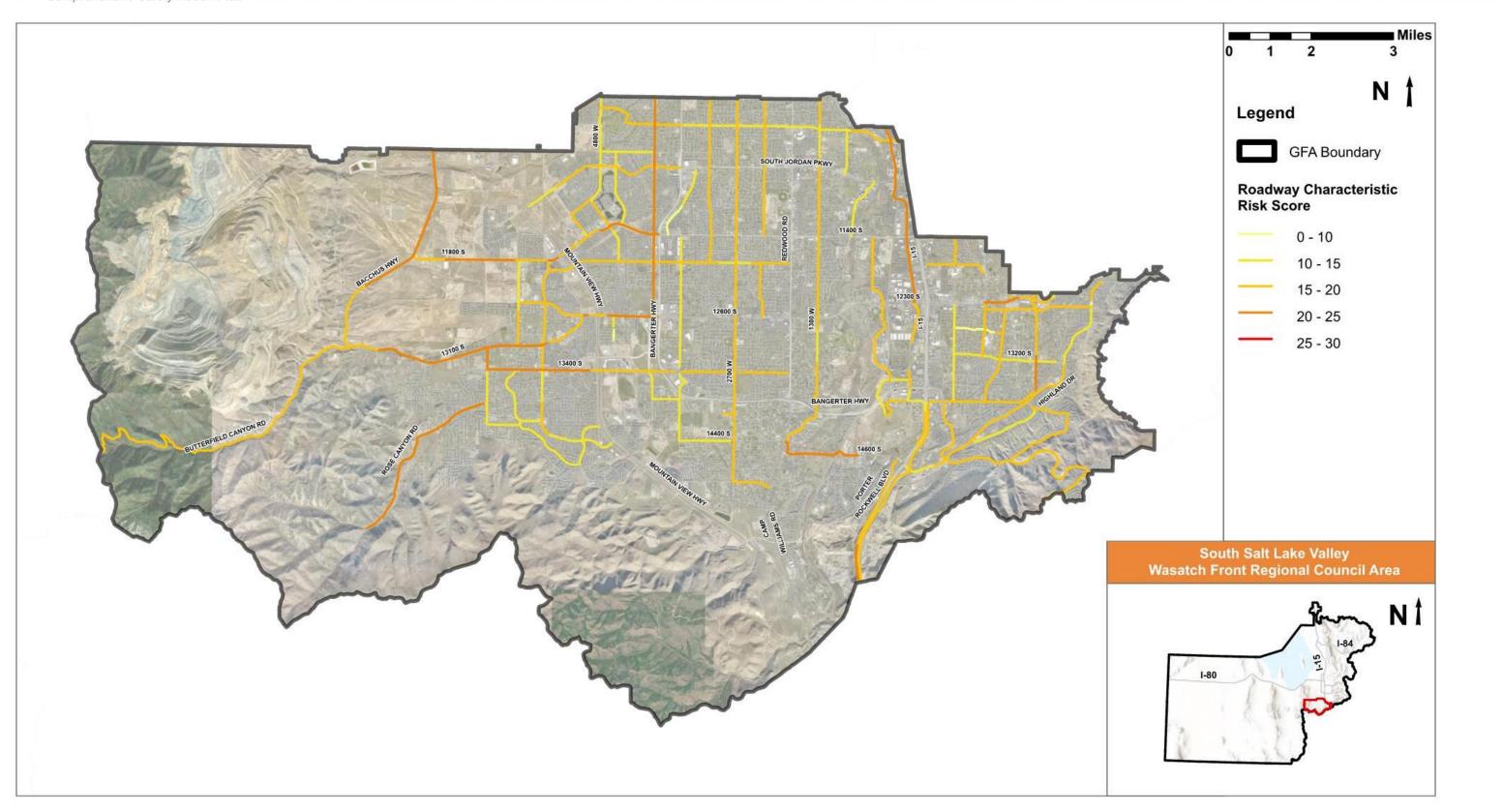


Figure 6.2 – Crash Profile Risk Assessment Results (Federal Aid Routes)



6.2. usRAP Risk Assessment

A roadway characteristic risk assessment was performed using roadway feature data collected for Utah state and federal aid routes. The risk assessment was performed using the usRAP tool. The output of the usRAP tool is a star rating or risk rating for vehicle, pedestrian, and bicyclist features. The results of the usRAP risk assessment by star rating are mapped in the following figures:

- Figure 6.3 Vehicle Star Rating (State Routes)
- Figure 6.4 Vehicle Star Rating (Federal Aid Routes)
- Figure 6.5 Pedestrian Star Rating (State Routes)
- Figure 6.6 Pedestrian Star Rating (Federal Aid Routes)
- Figure 6.7 Bicycle Star Rating (State Routes)
- Figure 6.8 Bicycle Star Rating (Federal Aid Routes)

A summary of the highest risk segments (1-2 Stars) for federal aid routes in the South Salt Lake Valley GFA are located in **Table 6.2**.

Road Segment	Extents	Vehicle Risk	Pedestrian Risk	Bicycle Risk
Bacchus Highway	South Jordan Parkway to North GFA Extents		Х	Х
Bacchus Highway	13100 South to South Jordan Parkway		Х	
South Jordan Parkway	Mountain View Corridor to Cardinal Park Road		Х	х
10400 South	Vermillion Drive to Bangerter Highway		Х	
13100 South/13090 South	Bacchus Highway to Rosecrest Road		Х	Х
Rose Canyon Road	13400 South to 13100 South		Х	Х
13400 South	2700 West to Redwood Road		Х	Х
13400 South	Mountain View Corridor to 2700 West		Х	
13400 South	Rose Canyon Road to Mountain View Corridor		Х	Х
11800 South	Bacchus Highway to 6000 West		Х	
11800 South	6000 West to Mountain View Corridor	Х	Х	Х
Daybreak parkway	Mountain View Corridor to Oakmond Road		Х	Х
Daybreak parkway	Oakmond Road to Bangerter Highway	Х	Х	Х
Freedom Park Drive	Anthem Park Blvd to 11800 South		Х	

Table 6.2 – usRAP Risk Segments (Federal Aid Route)



Road Segment	Extents	Vehicle Risk	Pedestrian Risk	Bicycle Risk
Anthem Park Blvd	Miller Crossing Drive to Mountain View Corridor		Х	
11800 South	Mountain View Corridor to Anthem Court		Х	
11800 South	2480 West to Redwood Road	Х	Х	Х
4000 West	12600 South to Kilt Street		Х	
12600 South	Main Street to Bangerter Highway		Х	Х
4570 West	Geronimo Road to 12600 South	Х		
2700 West	15000 South to Van Ross Drive		Х	
2240 West	12600 South to 11800 South	Х		
15000 South	2700 West to Camp Williams Road		Х	
1300 West	Y worry Lane to North GFA Boundary		Х	
1300 West	Withers Lane to Y worry Lane	Х	Х	Х
1300 West/Loumis Parkway	Blue Quill Drive to Ryanna Drive		Х	х
Loumis Parkway	Redwood Road to Blue Quill Drive		Х	
1690 West	14600 South to Redwood Road	Х		
14600 South	1690 West to 1515 West	Х		
14600 South	1515 West to Heritage Crest Way	Х	Х	Х
10000 South	1000 West to East GFA Extents	Х	Х	Х
Jordan Gateway/Lone Peak Parkway	12300 South to North GFA Extents		Х	
Jordan Gateway/Lone Peak Parkway	Golden Harvest Road to 12300 South	Х	х	
200 West	Bangerter Highway to Galena Park Blvd		Х	
13800 South	600 West to 200 West		Х	
Galena Park Blvd/Vista Station Blvd	13490 South to 700 West	Х	Х	х
700 West	Galen Park Blvd to 11400 South	Х	Х	Х
Pony Express Road	South GFA Boundary to 14600 South		Х	



Road Segment	Extents	Vehicle Risk	Pedestrian Risk	Bicycle Risk
300 East	11800 South to 11400 South	Х		
Willow Springs Lane	300 East to Whisper Bend Drive	Х		
2000 East	Graystone Drive to Genova Drive	Х	Х	Х
13800 South	Wadsworth Park Drive to Bangerter Highway	Х	Х	Х
Bangerter Parkway	Highland Drive to 13800 South		Х	х
Traverse Ridge Road	Deer Ridge Road to Highland Drive		Х	
Draper Parkway/12300 South	700 East to North GFA Extents	x	Х	Х
1300 East	Manfield Way to North GFA Extents	Х	Х	Х
1300 East	13200 South to Manfield Way		Х	Х
1300 East	13700 South to 13200 South	Х	Х	Х
Fort Street	13400 South to 12400 South	Х		
12400 South/Pioneer Road	970 East to Highland Drive		х	
Highland Drive	Bangerter Parkway to Pioneer Road		Х	



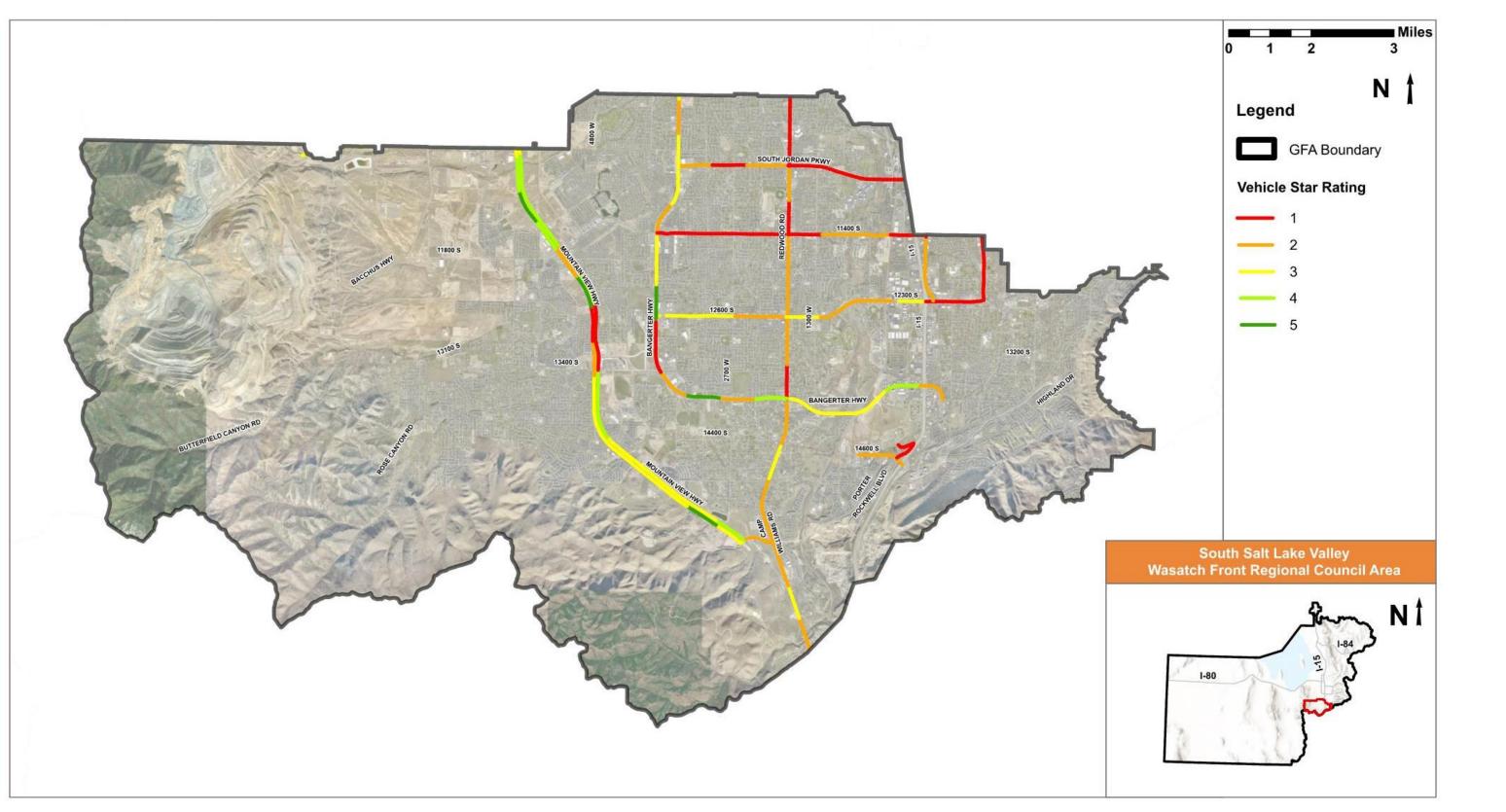


Figure 6.3 – Vehicle Star Rating (State Routes)



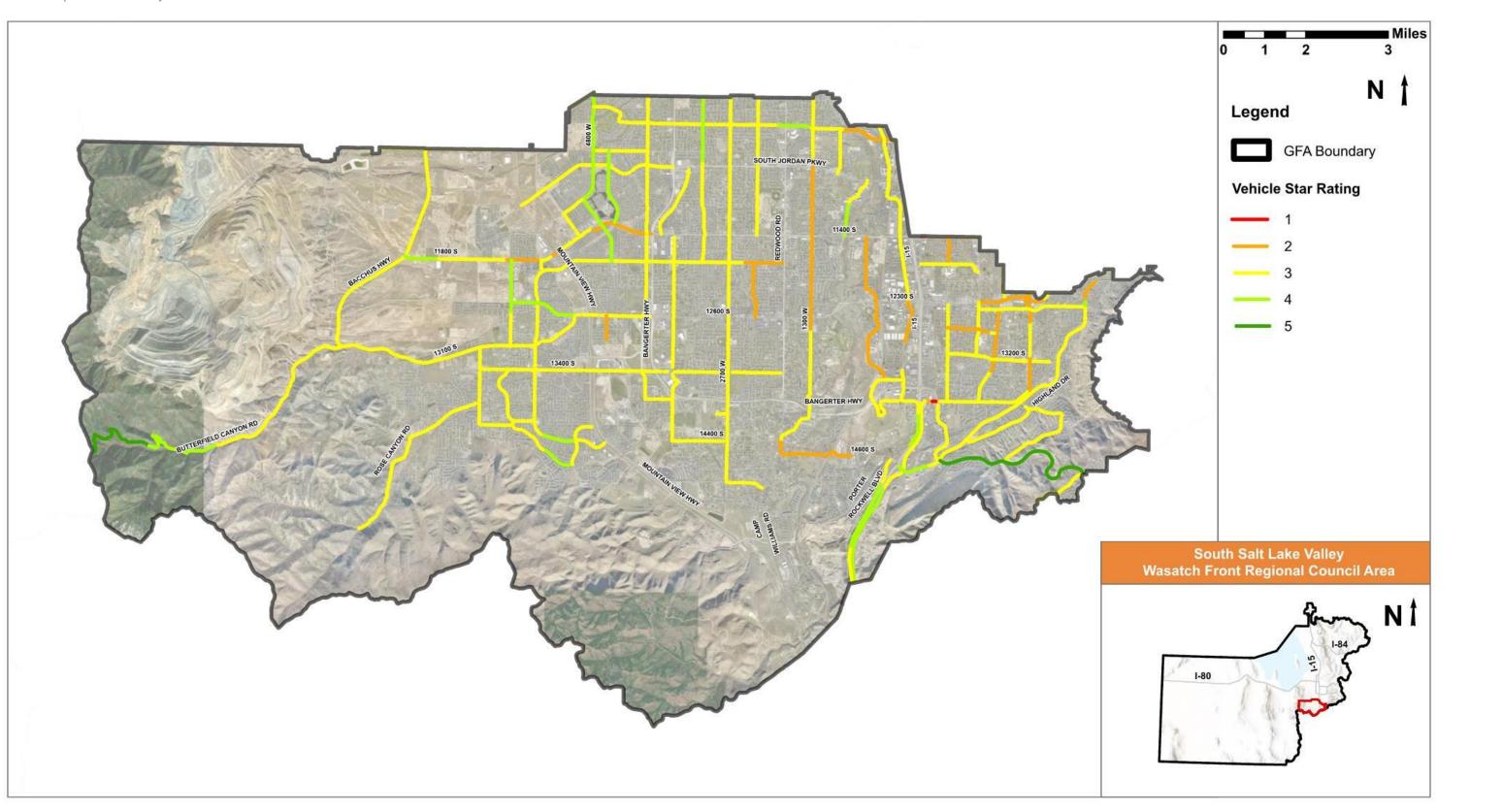


Figure 6.4 – Vehicle Star Rating (Federal Aid Routes)



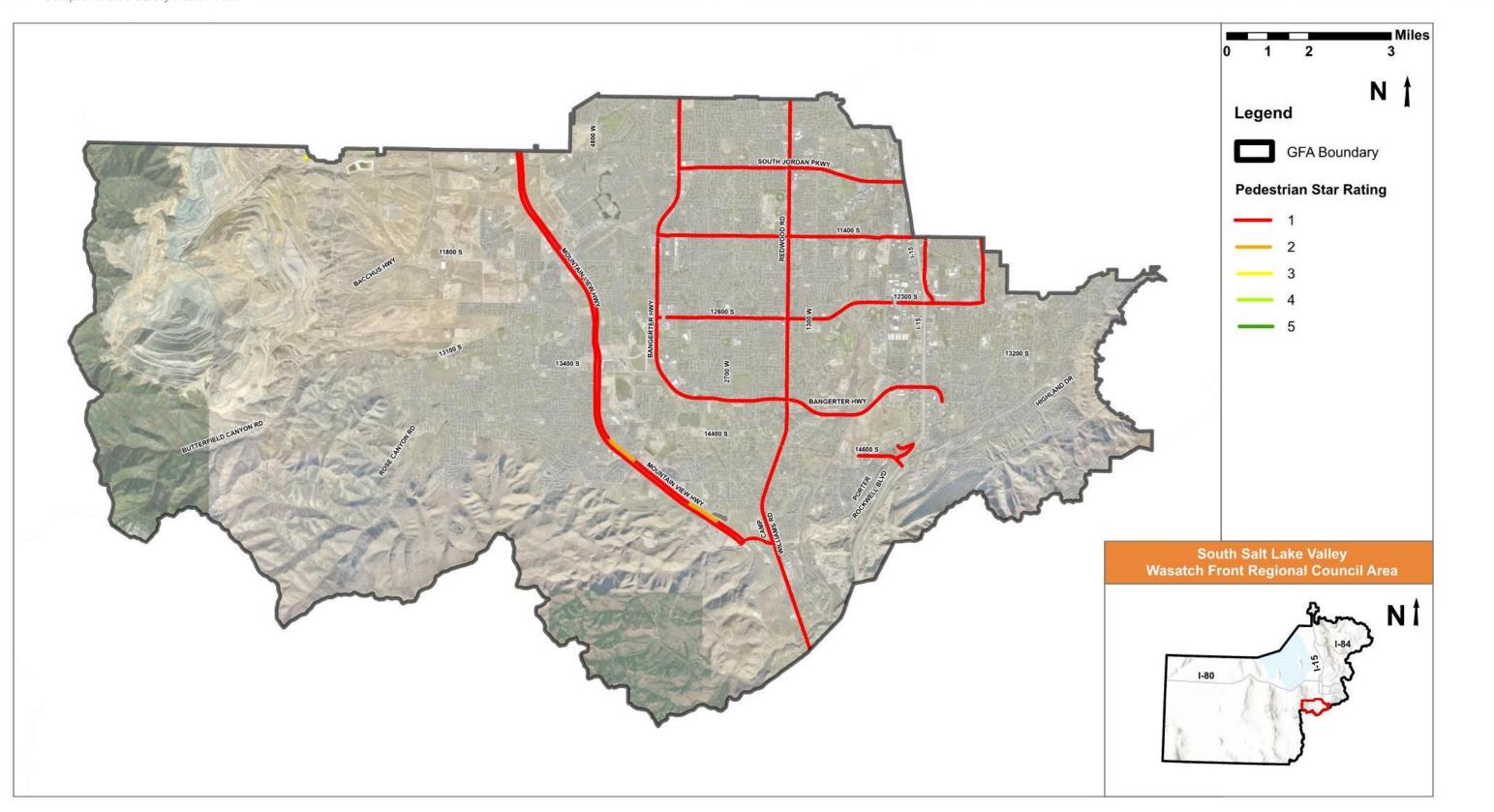


Figure 6.5 – Pedestrian Star Rating (State Routes)



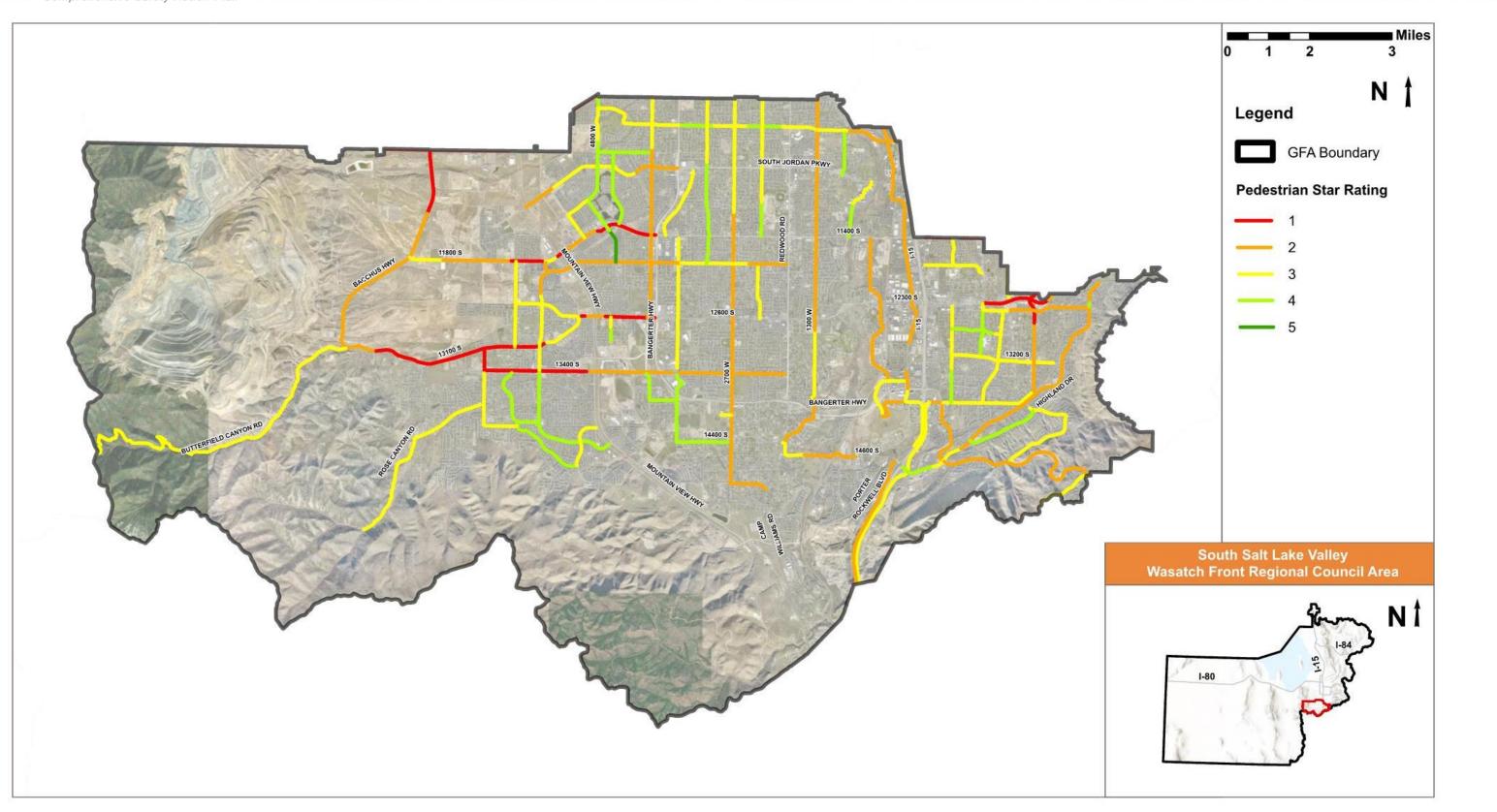


Figure 6.6 – Pedestrian Star Rating (Federal Aid Routes)



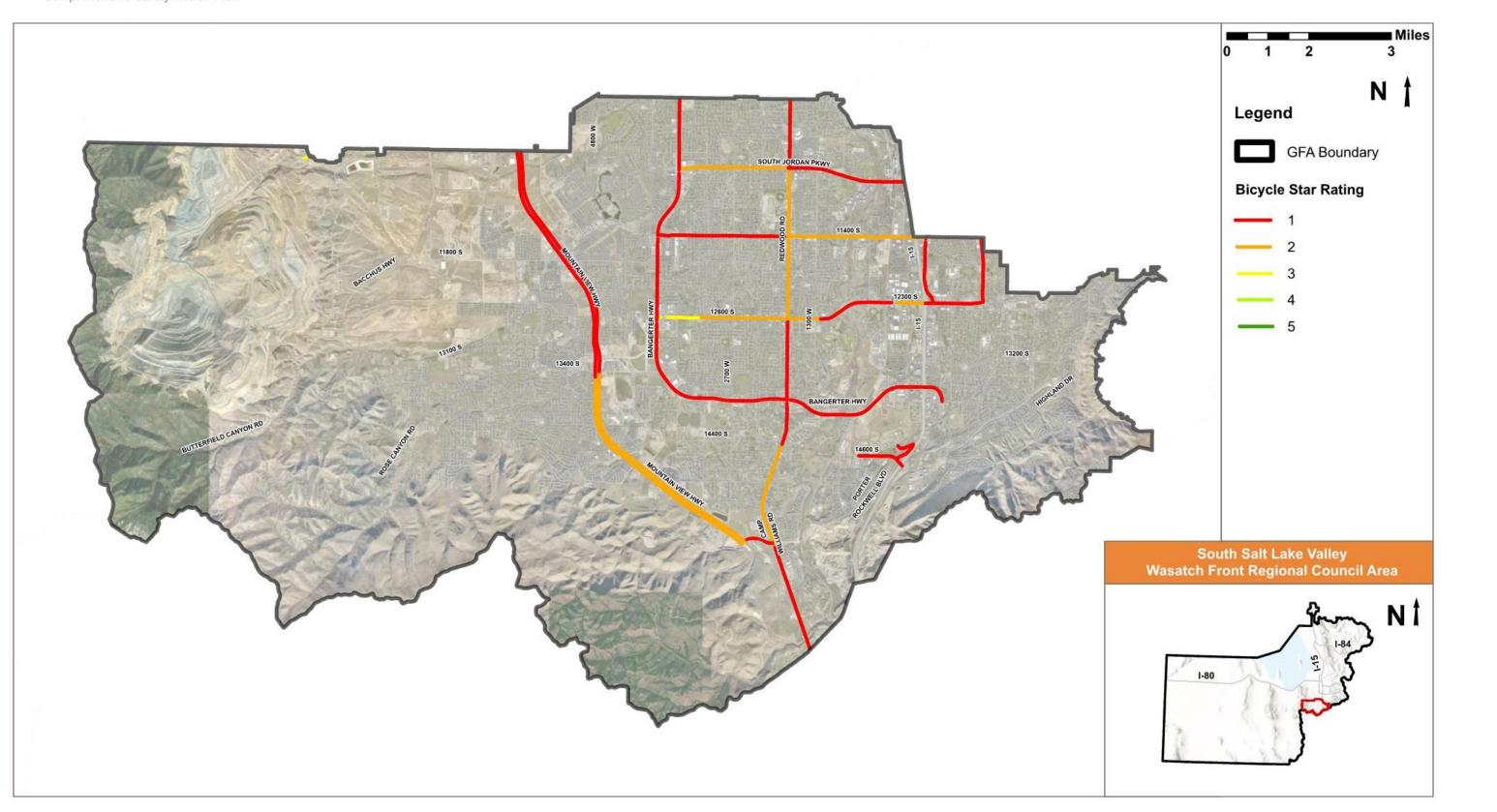


Figure 6.7 – Bicycle Star Rating (State Routes)



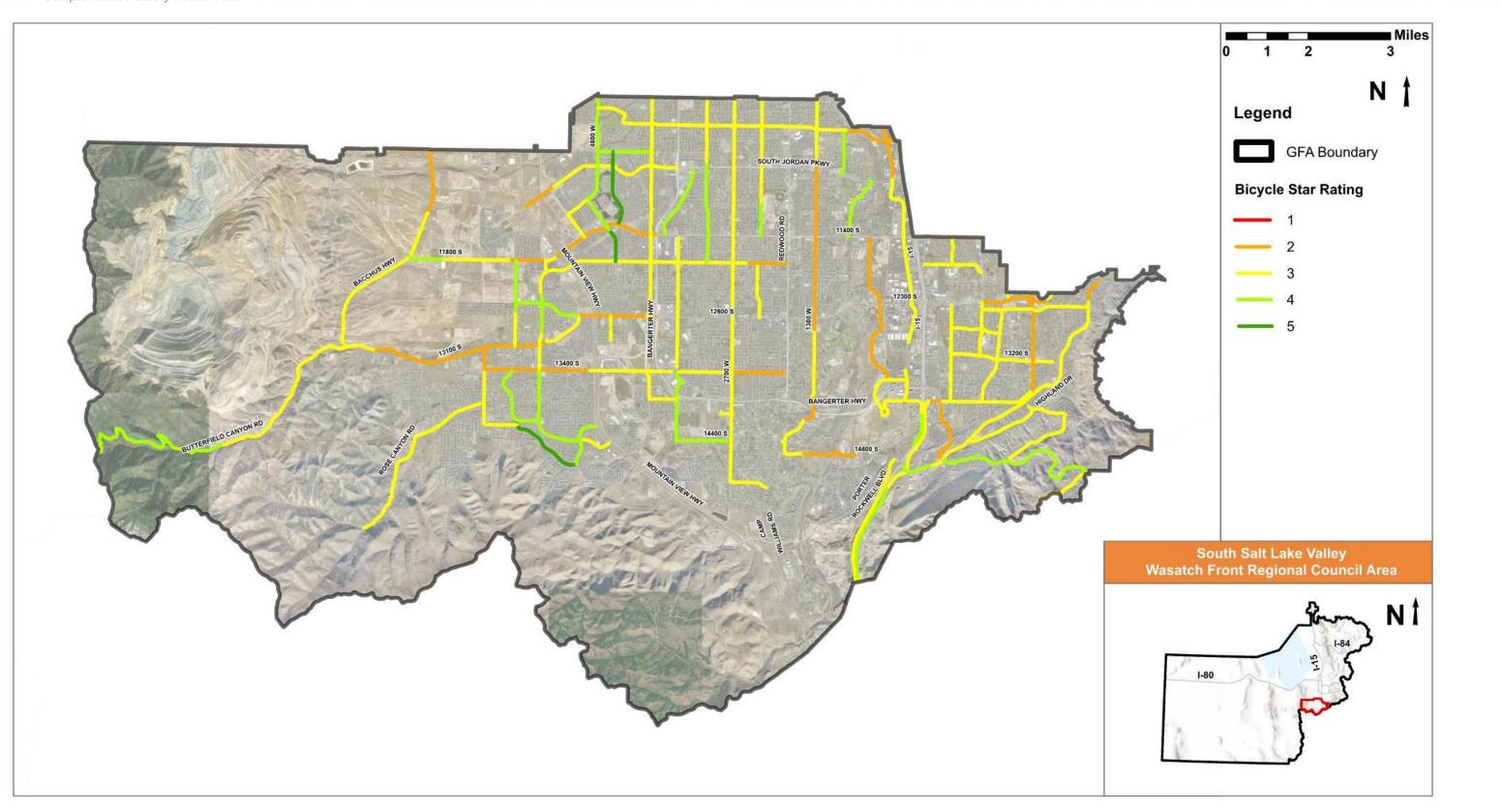


Figure 6.8 – Bicycle Star Rating (Federal Aid Routes)



6.3. Local Street Risk Assessment

A local street risk assessment was performed for all local roads within WFRC that are not included in the usRAP network. The results of the local street risk assessment are summarized in **Table 6.3** and **Figure 6.9**. Mapped segments include the top 5% risk segments within the WFRC study area and the top 10 segments or high priority segments within the South Salt Lake Valley GFA.

Road Segment	Extents
Anthem Park Boulevard	SR-65 – 12600 South
Monarch Meadow/Ft Herriman	4800 West – Main Street
River Heights	10350 South – 11970 South
Rose Crest Road	Autumn Crest Boulevard – Palisade Rose Drive
Fort Street	13200 South – 12400 South
Emmeline Drive	Sun Bloom Lane – Friendship Drive
12600 South	Main Street – 6200 West
3200 West	Rolling Creek Way – 12130 South
13200 South	Highland Drive – 300 East
6000 West	13900 South – 1 st Street

Table 6.3 – Local Street High Priority Segments



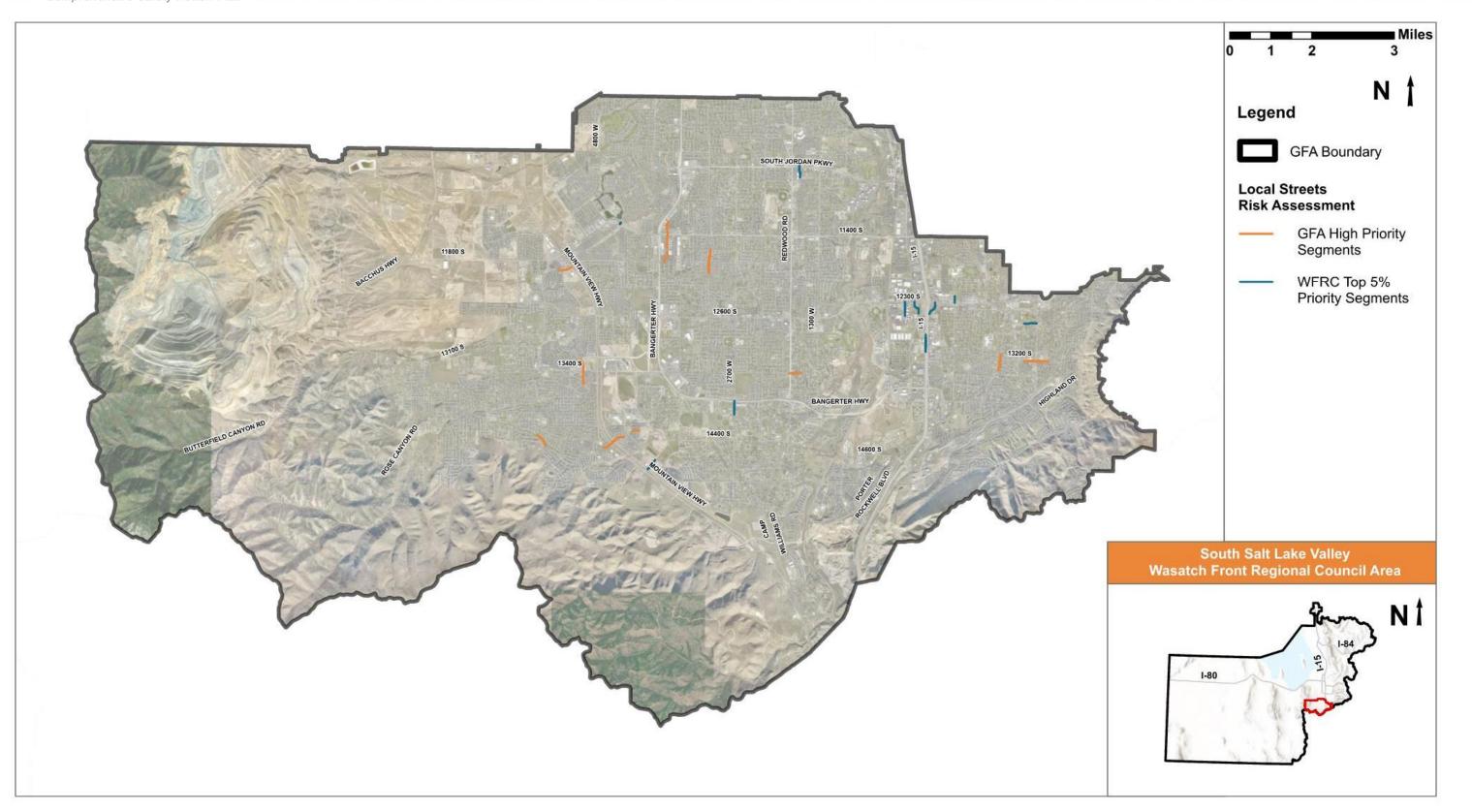


Figure 6.9 – Local Street Risk Assessment Results



7. Safety Analysis Summary

This section summarizes the safety analysis performed for the South Salt Lake Valley GFA by identifying common risk characteristics and a composite high-risk roadway network.

7.1. Common Risk Characteristics

Based on the SHSP Emphasis Area Analysis and the Historical Crash Analysis summarized above, the following are common risk characteristics that should be considered when developing safety improvement projects specific to the South Salt Lake Valley GFA.

- Intersections
 - 56.6% of all fatal and serious injuries
- Teen Driver
 - 25.5% of all fatal and serious injuries
- Speed-Related
 - 25.2% of all fatal and serious injuries
- Roadway Departure
 - 17.9% of all fatal and serious injuries
 - 17.0% of all fatal and serious injury crashes
- Motorcycle
 - 17.6% of all fatal and serious injuries
 - 5.3% of all fatal and serious injury crashes
- Active Transportation
 - 11.9% of all fatal and serious injury crashes
- Left Turn at Intersection
 - 23.3% of all fatal and serious injury crashes

7.2. Composite High-Risk Roadway Network

Each of the safety analysis methodologies completed identified segments that can be improved to reduce fatalities and serious injuries.

To identify an overall high-risk roadway network and provide focused information for jurisdictional decisions regarding prioritization of safety improvements, an analysis was performed to identify overlapping segments from each of the analysis methodologies. A composite score, from zero to five, was determined using the approach in **Table 7.1**. The high-risk roadway network is a composite of the various risks as presented in **Section 4** through **Section 6** of Tech Memo #1. The top 10% of roadway segments for the entire WFRC area are included in the Composite High-Risk Network. These segments have a composite risk value of four or higher.

The South Salt Lake Valley GFA Composite High-Risk Network for Federal Aid routes is summarized in **Table 7.2**.

The results are also mapped in Figure 7.1 (State Routes) and Figure 7.2 (Federal Aid Routes).



Table 7.1 – Composite High-Risk Roadway

Analysis	Risk Type	Approach	Value
Historical Crash Analysis	Historical Crash Risk	5-Year Crash Totals ≥ 3 Crashes	1
Crash and Network Screening Analysis	Systemic Crash Risk	Positive Local CCR Differential	1
WFRC Risk Assessment	Roadway Risk	Risk Score ≥ 20	1
usRAP Risk Assessment	Vehicle Risk	Vehicle Star Rating = 1-2 Stars	1
usRAP Risk Assessment	Pedestrian Risk	Pedestrian Star Rating = 1-2 Stars	0.5
usRAP Risk Assessment	Bicycle Risk	Bicycle Star Rating = 1-2 Stars	0.5
	Tot	al Possible Composite Risk Score	5

Table 7.2 – South Salt Lake Valley High-Risk Roadway Network (State Routes and Federal Aid Routes)

						R	ISK ⁻	ΓΥΡΕ			
Facility	Limits	Functional Classification	City	Length (miles)	usRAP- Pedestrian Star Rating	usRAP - Bicycle Star Rating	usRAP- Vehicle Star Ra ting	Crash Profile Risk Score	CCR Differential Analysis	Significant Crashes	Local Street Risk Assessment
State Route											
South Jordan Parkway	Bangerter Highway to I-15	Other Principal Arterial	South Jordan	4.2	Х	Х	Х	Х		Х	
11400 South	Bangerter Highway to 3420 West	Other Principal Arterial	South Jordan, Draper	0.6	Х	Х	Х	Х		Х	
11400 South	Redwood Road to I-15	Other Principal Arterial	South Jordan	2.3	Х	Х	Х		Х	Х	
12600 South (SR-71)	Dunhammer Drive to 1630 West	Other Principal Arterial	Riverton	1.4	Х	Х	Х	Х		Х	
12300 South (SR-71)	265 West to 700 East	Other Principal Arterial	Draper	1.5	Х	Х	Х	Х	Х	Х	
Bangerter Highway (SR-154)	2700 West to 13800 South	Other Principal Arterial	Riverton, Bluffdale	4.5	Х	Х	Х	Х		Х	
14600 South	Noell Nelson Drive to I-15	Minor Arterial	Bluffdale	1.0	Х	Х	Х	Х		Х	
Bangerter Highway (SR-154)	200 West to 13800 South	Other Principal Arterial	Draper	0.8	Х	Х	Х	Х		Х	
Redwood Road (SR-68)	9400 South to 9916 South	Other Principal Arterial	South Jordan	1.5	Х	Х	Х	Х		Х	
Redwood Road (SR-68)	11400 South to Andover Road	Other Principal Arterial	South Jordan	0.3	Х	Х	Х		Х	Х	
Redwood Road (SR-68)	12600 South to Bangerter Highway	Other Principal Arterial	Riverton	2.2	Х	Х	Х	Х		Х	
Camp Williams Road (SR-68)	1500 South to Portter Rockwell Blvd	Other Principal Arterial	Bluffdale	1.0	Х	Х	Х	Х		Х	
Bangerter Highway (SR-154)	12600 South to 13400 South	Other Principal Arterial	Riverton	1.0	Х	Х	Х	Х		Х	
State Street (US-89)	11400 South to 12300 South	Other Principal Arterial	Draper	1.2	Х	Х	Х	Х	Х	Х	
700 Easy (SR-71)	11400 South to 12300 South	Other Principal Arterial	Draper	1.2	Х	Х	Х	Х	Х	Х	
Federal Aid Routes											
1300 W	10400 S to McClan Dr	Major Collector	South Jordan	0.1	Х	Х	Х		Х	Х	
Daybreak Rim Way	Oakmond Rd to Bangerter Hwy	Minor Arterial	South Jordan	1.3	Х	Х	Х	Х		Х	
11400 S	State St to 150 E	Other Principal Arterial	Sandy	0.3	Х	Х	Х		Х	Х	
12300 S	700 E to 100 E	Minor Arterial	Draper	0.5	Х	Х	Х	Х	Х	Х	
1300 E	Draper Gate Dr to Ballard Cv	Minor Arterial	Draper	0.5	Х	Х	Х	Х	Х		
1300 E	13200 S to Bent Pine Cv	Minor Arterial	Draper	0.5	Х	Х	Х	Х		Х	
13400 S	5600 W to Monarch Meadows Pkwy	Minor Arterial	Riverton, Herriman	0.1	Х	Х		Х	Х	Х	
Bluffdale Blvd (14600 S)	1515 W to 850 W	Minor Arterial	Bluffdale	1.2	Х	Х	Х	Х	Х	Х	



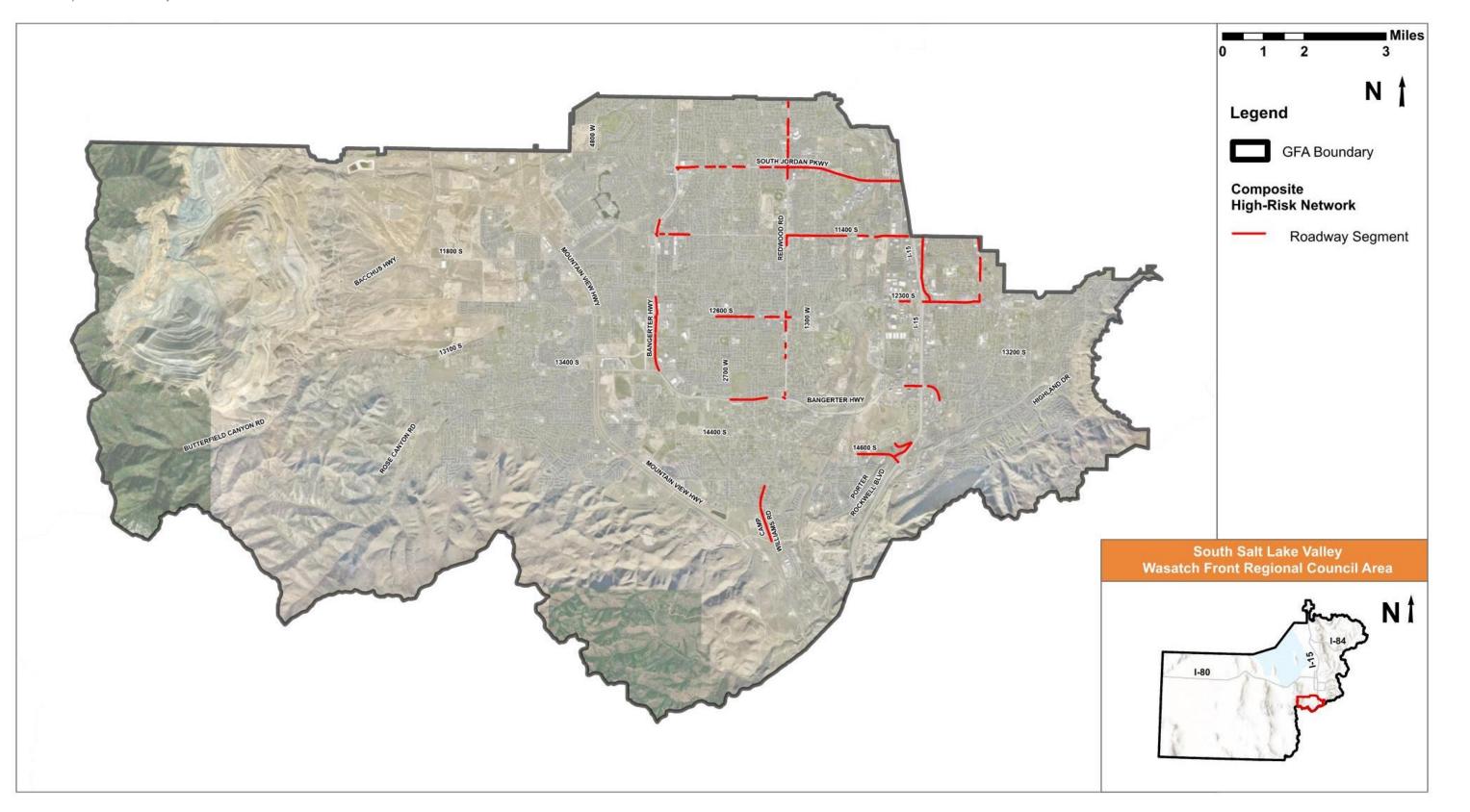


Figure 7.1 – South Salt Lake Valley High-Risk Roadway Network (State Routes)



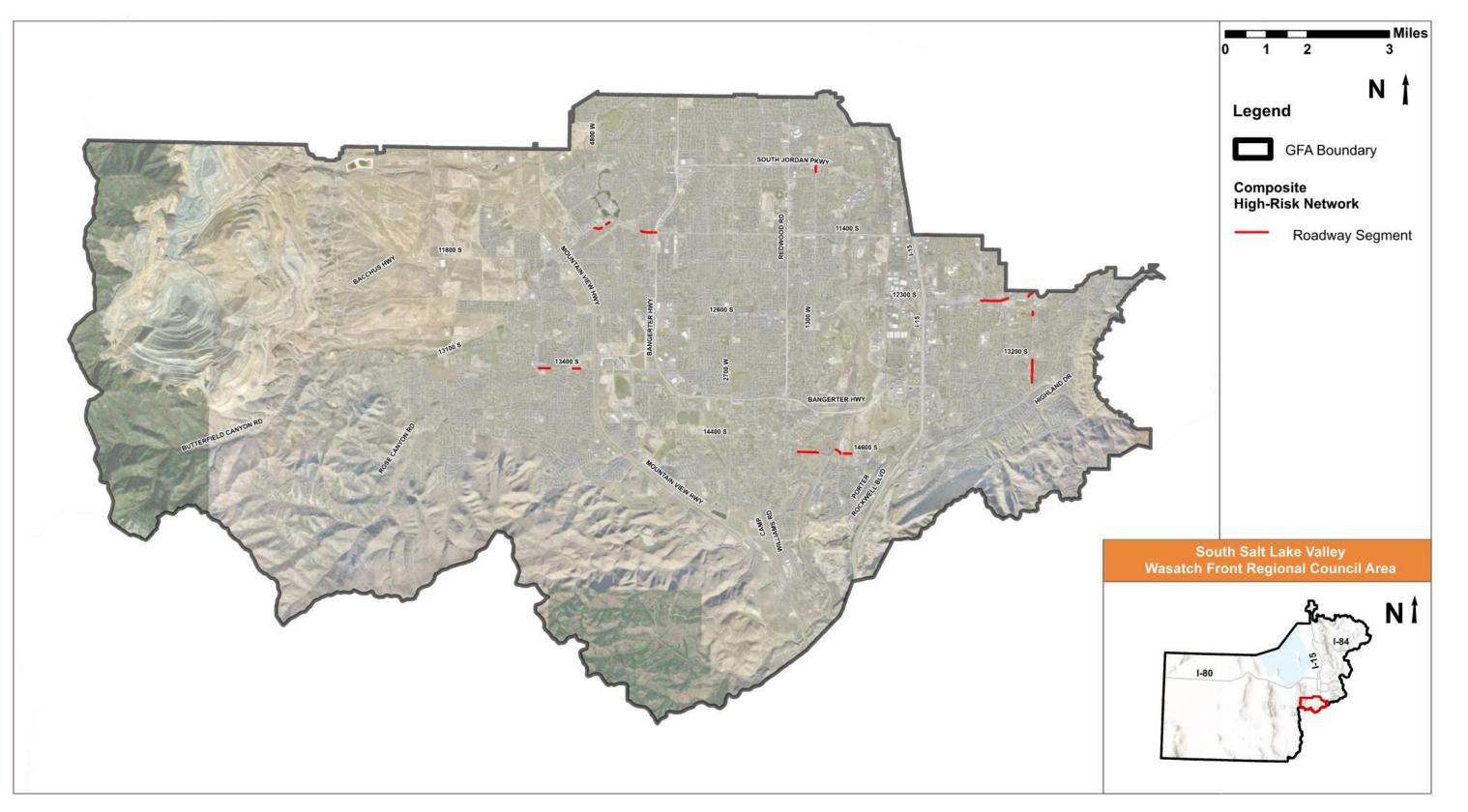


Figure 7.2 – South Salt Lake Valley High-Risk Roadway Network (Federal Aid Routes)

ATTACHMENT A

APPENDIX

SOUTH SALT LAKE VALLEY CASE STUDY PROJECT INFORMATION SHEETS

Project ID Jurisdictions Project Name 10.52.1 Buffdale 14600 South from SR 68 to 1-15 10.52.2 Bluffdale 2700 West & 14400 South Intersection Improvements 10.53.1 Draper 12300 South from 700 East to 1300 East 10.53.2 Draper Minuteman Drive & Highland Drive 10.54.1.1 Herriman, Riverton 13400 South from 6400 West to Bangerter Highway 10.54.1 Herriman 12600/Herriman Boulevard & Anthem Park Boulevard 10.54.1 Riverton 13400 South from 6400 West to Bangerter Highway 10.54.1 Riverton 13400 South from 6400 West to Bangerter Highway 10.55.1 Riverton, Herriman 13400 South from 6400 West to Bangerter Highway 10.56.1 South Jordan South Jordan Parkway/SR 175 from 4000 West to 3600 West 10.56.3 South Jordan Redwood Road and Shields Lane Intersection Improvements 10.57.1 Copperton SR 209/SR 48 from Kennecott Road to 10200 South 10.57.1 Copperton SR 209/SR 48 from Kennecott Road to 10200 South 10.57.1 Copperton SR 209/SR 48 from Kennecott Road to 10200 South 10.57.1			South Salt Lake Valley
InstantImage: Constant of the constan	Project ID	Jurisdictions	
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Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	14600 South from SR 68 to I-15
Jurisdiction(s):	Bluffdale
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Medium

Location Description

Roadway:	14600 Sout	h	Key Intersecti	on Locations:	
From:	SR 68		1300 West	950 West	1000 West
To:	I-15		1690 West	Heritagecrest Way	Porter Rockwell Boulevard
Length:	2.29	miles	1630 West	Spring View Parkway	Pony ExpressRoad

Project Location Map



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	2.29
Average Daily Traffic (vehicles per day)	3,816
Functional Classification	Other Principal Arteria
Roadway Ownership	State
Urban/Rural Designation	Urban
Number of Key Intersections	9

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	0
Suspected Minor Injury Crashes (B)	2
Possible Injury Crashes (C)	11
No Injury/PDO Crashes (O)	47
Total Crashes	60
Total EPDO Crashes	217

Intersection Crash History

												ypes ar	e Over-	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
1300 West & 14600 South		0	0	0	3	0	3	34								
1690 West & 14600 South		0	0	1	2	0	3	45								
1630 West & 14600 South		0	0	0	4	0	4	45								
950 West & 14600 South		0	0	1	5	1	7	80								
Heritagecrest Way & 14600 South		0	0	0	4	0	4	45								
Spring View Parkway & 14600 So		0	0	0	2	1	3	24								
1000 West & 14600 South		0	0	0	10	1	11	115				1				
Porter Rockwell Boulevard & 1460	~	0	1	4	28	4	37	505								
Pony ExpressRoad & 14600 Sout	~	0	1	10	30	21	62	678							✓	

14600 South from SR 68 to I-15

Date Prepared: 3/14/2024 Prepared By: JSF Checked By: BCC

Map ID:

10.52.1

Why Was This Location Identified? Composite Safety Score Historic Crashes Critical Crash Rate Differential ~ Crash Profile Risk Score 1

usRAP - Star Rating (Veh, Ped, Bike) Local Street Assessment

What Crash Types are Over-Represented?										
Fatal		Head On (HO)								
Serious Injury		Parked Vehicle (PV)	✓							
Pedestrian (Ped)		Single Vehicle								
Bicycle (Bike)		Rear to Rear (RR)								
Motorcycle		Rear to Side (RS)								
Angle	✓	Sideswipe (SS)	✓							
Front to Rear (FR)		Other/Unknown								

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WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan 14600 South from SR 68 to I-15

Project Description/How is safety improved?

While this segment extends from Camp Williams Road/SR 68 to I-15, City of Bluffdale is already improving a large portion of this segment from the Jordan River Parkway to the 1000 W roundabout. The underway construction will remove the S-curve under the railroad and construct a new bridge under the railroad. It is proposed that other segments be improved with wider shoulders to allow for the installation of a buffered bicycle lane. It is also recommended that sidewalk infill be included in this project. The Jordan River Parkway Crossing should be upgraded to a high visibility crossing.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures



Opinion of Probable Construction Cost

Segment Improvements						
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Cost
Install Sidewalk or Walkways	NA	Pedestrian	1.31	MILE	\$ 634,000	\$ 830,540
Shoulder Widening on Rural Roads	0.771	All Crashes	0.90	MILE	\$ 32,000	\$ 28,800
Traffic Calming - Lane Narrowing	0.68	All Crashes	1.47	MILE	\$ 39,000	\$ 57,330
Install Buffered Bicycle Lane	NA	Bicycle	1.47	MILE	\$ 26,000	\$ 38,220
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -

Intersection Improvements								
Item Description	CMF	Applicable Crashes	Quantity	Unit		Unit Price		Item Cost
Upgrade Existing Crosswalk to High-Visibility Crosswalk	0.6 - 0.75	Pedestrian	1.00	XING	\$	37,000	\$	37,000
Perform an Intersection Control Evaluation and Implement	NA	All Crashes	1.00	INT	\$	225,000	\$	225,000
Install Pedestrian Hybrid Beacons (PHB) or HAWK	0.453	Pedestrian	1.00	EACH	\$	200,000	\$	200,000
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
				Imp	rover	ments Subtotal:	\$	1,416,890
				Mobilization				75,000
				affic Contr	•	/		70,845
		Items Not Es	stimated / (•	566,756
				Estimate	d Cor	nstruction Cost:	\$	2,129,491
Local Match [†] : 20% \$ 541,000								
[†] Toward SS4A Implementation Grants		Preco	onstruction	Engineeri	ng/De	esign 12%	\$	255,539
					Utilit	ies**	\$	-
					ROV	V**	\$	-
		Construe	ction Engin	eering/Ma	nager	ment 15%	\$	319,424
				Estin	nated	Project Total:	\$	2,705,000
*Mobilizatio	on is 10% +/-	of the subtotal with a	minimum o	of \$2,500 a	and a	maximum of \$7	′5,0 0 (o

**To be evaluated during feasibility study/design

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the **Countermeasure Toolbox** for a complete list of safety countermeasures.

Additional Improvements #1:	
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

.

Project Information Sheet

NA

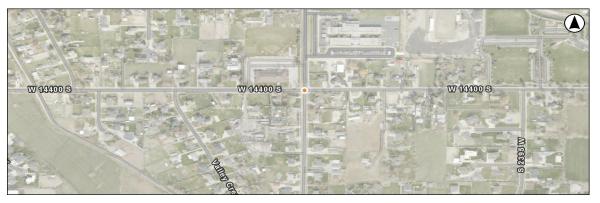
GFA(s):	South Salt Lake Valley
Project Name:	2700 West & 14400 South Intersection Improvements
Jurisdiction(s):	Bluffdale
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Low

Location Description

Roadway: NA From: NA To: Length: NA

Key Intersection Locations: 2700 West & 14400 South

Project Location Map



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	NA
Average Daily Traffic (vehicles per day)	NA
Functional Classification	NA
Roadway Ownership	NA
Urban/Rural Designation	NA
Number of Key Intersections	NA

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	NA
Suspected Serious Injury Crashes (A)	NA
Suspected Minor Injury Crashes (B)	NA
Possible Injury Crashes (C)	NA
No Injury/PDO Crashes (O)	NA
Total Crashes	NA
Total EPDO Crashes	NA

Intersection Crash History

	<i>y</i>															
								1		What	Crash T	vpes ar	e Over-	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike		FR	HO	PV	RR/RS	SS
2700 West & 14400 South		0	0	1	7	5	13	107								
	_															

Why Was This Location Identified?			
Composite Safety Score	NA		
Historic Crashes	NA		
Critical Crash Rate Differential	NA		
Crash Profile Risk Score	NA		
usRAP - Star Rating (Veh, Ped, Bike)	NA		
Local Street Assessment	NA		

What Crash Types are Over-Represented?					
Fatal	NA	Head On (HO)	NA		
Serious Injury	NA	Parked Vehicle (PV)	NA		
Pedestrian (Ped)	NA	Single Vehicle	NA		
Bicycle (Bike)	NA	Rear to Rear (RR)	NA		
Motorcycle	NA	Rear to Side (RS)	NA		
Angle	NA	Sideswipe (SS)	NA		
Front to Rear (FR)	NA	Other/Unknown	NA		

Date Prepared:	3/14/2024
Prepared By:	JSF
Checked By:	BCC

2700 West 14400 South Intersection Improvements

10.52.2 Map ID:

2700 West 14400 South Intersection Improvements

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WASATCH FRONT REGIONAL COUNCIL Safety Action Plan

Project Description/How is safety improved?

This project is focused on identifying and implementing the best intersection control type at this intersection. This will be accomplished through conducting an intersection control evaluation study and implementing the results. It could be possible that a roundabout will be the prefered alternative to improve safety based on the results of the study.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis

Proposed Proven Safety Countermeasures



Opinion of Probable Construction Cost

Segment Improvements							
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	lte	em Cost
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Intersection Improvements Item Description	CMF	Applicable Crashes	Quantity	Unit		nit Price		Item Cost
Perform an Intersection Control Evaluation and Implement	NA	All Crashes	1.00	INT	\$	225,000	\$	225,000
Convert Existing Intersection to Modern Roundabout	0.18 - 0.59		1.00	INT	\$	2,500,000	\$	2,500,000
	0.10 0.00	7 11 01001100			Ŷ	2,000,000	\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
						ents Subtotal:		2,725,000
				Mobilization				75,000
				affic Contr				136,250
		Items Not E	stimated / 0					817,500
				Estimate	d Cons	truction Cost:	\$	3,753,750
Local Match [†] : 20% \$ 953,600								
[†] Toward SS4A Implementation Grants		Prece	onstruction	Engineeri			\$	450,450
					Utilitie		\$	-
		_			ROW		\$	-
		Constru	ction Engin					563,063
						Project Total:		4,768,000
		of the subtotal with a		of \$2,500 a	nd a n	naximum of \$7	5,000)
**To be e	valuated during	g feasibility study/desi	ign					

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the Countermeasure Toolbox for a complete list of safety countermeasures.

Additional Improvements #1:	Set Appropriate Speed Limits for All Road Users
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

Project Information Sheet _

GFA(s):	South Salt Lake Valley
Project Name:	12300 South from 700 East to 1300 East
Jurisdiction(s):	Draper
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Medium, Low

Location Description

Roadway: From: To: Length:

_ _ . . .

12300 South 700 East 1300 East 0.88 miles

Project Location Map



Key Intersection Locations:

800 East

Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	0.88
Average Daily Traffic (vehicles per day)	26,353
Functional Classification	Minor Arterial
Roadway Ownership	Federal Aid - Local
Urban/Rural Designation	Urban
Number of Key Intersections	1

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	2
Suspected Minor Injury Crashes (B)	4
Possible Injury Crashes (C)	11
No Injury/PDO Crashes (O)	59
Total Crashes	76
Total EPDO Crashes	461

Intersection Crash History

									What	Crash T	ypes ar	e Over-	Represe	ented?		
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
800 East & 12300 South		0	0	4	4	1	9	136								

12300 South from 700 East to 1300 East

Date Prepared: 3/14/2024 Prepared By: JSF Checked By: EJS

Why Was This Location Identified?			
Composite Safety Score	✓		
Historic Crashes	✓		
Critical Crash Rate Differential	✓		
Crash Profile Risk Score	✓		
usRAP - Star Rating (Veh, Ped, Bike)	1		
Local Street Assessment			

What Crash Types are Over-Represented?					
Fatal		Head On (HO)			
Serious Injury	1	Parked Vehicle (PV)			
Pedestrian (Ped)		Single Vehicle			
Bicycle (Bike)		Rear to Rear (RR)			
Motorcycle		Rear to Side (RS)			
Angle	✓	Sideswipe (SS)	✓		
Front to Rear (FR)	1	Other/Unknown			

Map ID: 10.53.1 madely a france in

WASATCH FRONT REGIONAL COUNCIL Safety Action I

12300 South from 700 East to 1300 East

Project Description/How is safety improved?

This project is focued on systemic corridor access management and bicycle safety improvements. It is proposed that a center curbed median be installed along the entire length of the project in the existing two-way left-turn lane to address angle (turning) crashes along the corridor. All unsignalized intersections and access driveways should be considered for right-in/right-out or 3/4 access. It is also proposed that lane narrowing and wider lane lines be implemented for traffic calming and to allow for the striping of a bicycle lane.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis

Proposed Proven Safety Countermeasures



Left-Turn Conflict Intersections

Opinion of Probable Construction Cost

Segment Improvements						
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Cost
Install Raised Medians on Roadways with Existing TWLTL	0.29	All Crashes	0.88	MILE	\$ 928,000	\$ 816,640
Traffic Calming - Lane Narrowing	0.68	All Crashes	0.88	MILE	\$ 39,000	\$ 34,320
Install Bicycle Lane	0.51 - 0.694	Bicycle	0.88	MILE	\$ 21,000	\$ 18,480
Install Driver Feedback Speed Limit Signs	NA	All Crashes	4.00	EACH	\$ 10,000	\$ 40,000
Traffic Calming - Wider Lane Lines	0.68	All Crashes	0.88	MILE	\$ 21,000	\$ 18,480
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -

Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit P	rice	lte	em Cost
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
					rovements S			927,92
					1: (% +/-)*	10%		75,00
				affic Contr		5%		46,39
		Items Not E	stimated / 0			30%		278,37
				Estimate	d Constructi	on Cost:	\$	1,327,69
ocal Match [†] : 20% \$ 337,4	100							
Toward SS4A Implementation Grants		Prec	onstruction	Enaineeri	na/Desian	12%	\$	159,32
, , , , , , , , , ,				5	Utilities**		\$	-
					ROW**		\$	-
		Constru	ction Engin	eering/Ma		15%	\$	199,15
			0		nated Project	ct Total:	\$	1,687,00
*	Iobilization is 10% +	-/- of the subtotal with a	minimum o					

**To be evaluated during feasibility study/design

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the Countermeasure Toolbox for a complete list of safety countermeasures.

Additional Improvements #1: Additional Improvements #2: Additional Improvements #3: Additional Improvements #4: Additional Improvements #5:

Disclaimer:

Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	Minuteman Drive & Highland Drive
Jurisdiction(s):	Draper
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Low

Location Description

Roadway:	NA
From:	NA
То:	NA
Length:	NA

Project Location Map

Date Prepared: 3/14/2024 Prepared By: MA Checked By: EMF

Key Intersection Locations: Minuteman Drive

Map ID: 10.53.2



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	NA
Average Daily Traffic (vehicles per day)	NA
Functional Classification	NA
Roadway Ownership	NA
Urban/Rural Designation	NA
Number of Key Intersections	NA

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	NA
Suspected Serious Injury Crashes (A)	NA
Suspected Minor Injury Crashes (B)	NA
Possible Injury Crashes (C)	NA
No Injury/PDO Crashes (O)	NA
Total Crashes	NA
Total EPDO Crashes	NA

Intersection Crash History

Why Was This Location Identified?			
Composite Safety Score			
Historic Crashes			
Critical Crash Rate Differential			
Crash Profile Risk Score			
usRAP - Star Rating (Veh, Ped, Bike)			
Local Street Assessment			

What Crash Types are Over-Represented?							
Fatal	Head On (HO)						
Serious Injury	Parked Vehicle (PV)						
Pedestrian (Ped)	Single Vehicle						
Bicycle (Bike)	Rear to Rear (RR)						
Motorcycle	Rear to Side (RS)						
Angle	Sideswipe (SS)						
Front to Rear (FR)	Other/Unknown						

										What (Crash T	ypes ar	e Over-	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
Minuteman Drive & Highland Driv	1	0	0	14	50	38	102	918								
																L
																⊢
																-
																-
																<u> </u>
																<u> </u>
																<u> </u>
																-

and a have the second

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan **Minuteman Drive Highland Drive**

Project Description/How is safety improved?

This project recommends the following improvements to the intersection of Minuteman Drive/Highland Drive: westbound left, transition to protected phasing; northbound/southbound left, transition to flashing yellow arrow format; east and south approaches, add right-turn storage lane; add crossing visibility improvements on the east and south legs; add advance warning signage to north and south approaches to intersection.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures



Dedicated Left and Right-Turn Lanes at Intersections

Opinion of Probable Construction Cost

Crosswalk

Enhancements

Visibility

Segment Improvements							
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item C	Cost
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Intersection Improvements Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit	Price	<u> </u>	Item Cost
Change Permissive Left-Turn to Protected or Protected/Permissive	0.79 - 0.95		1.00	INT	\$	8,000	\$	8,000
Change a 5-section "Doghouse" to Flashing Yellow Arrow	0.75 - 0.93		2.00	INT	\$	8,000	\$	16,000
Provide Right-Turn Lanes	0.74 - 0.86		2.00	LANE	\$	150,000	\$	300,000
Upgrade Existing Crosswalk to High-Visibility Crosswalk	0.6 - 0.75	Pedestrian	2.00	XING	\$	37,000	\$	74,000
Systemic Low-Cost Countermeasures at Stop-Control Intersection	0.73 - 0.9	All Crashes	1.00	INT	\$	19,000	\$	19,000
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
				Imp	rovements	s Subtotal:	\$	417,000
			٨	/lobilizatior	n: (% +/-)*	10%	\$	41,700
				affic Contr		5%	\$	20,850
		Items Not E	stimated / C	Contingend	y: (% +/-)	30%	\$	125,100
				Estimate	d Construc	ction Cost:	\$	604,650
Local Match [†] : 20% \$ 153,600								
[†] Toward SS4A Implementation Grants		Prece	onstruction	Engineerii	ng/Design	12%	\$	72,558
					Utilities**		\$	-
					ROW**		\$	-
		Constru	ction Engin			15%		90,698
						ect Total:		768,000
*Mobilizati	on is 10% +/-	of the subtotal with a	minimum o	of \$2,500 a	nd a maxi	mum of \$7	75,000	C

*To be evaluated during feasibility study/design

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the **Countermeasure Toolbox** for a complete list of safety countermeasures.

Additional Improvements #1:	
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	13400 South from 6400 West to Bangerter Highway
Jurisdiction(s):	Herriman, Riverton
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Medium, Low

Location Description

Roadway:	13400 South	Key Intersection
From:	6400 West	Rose Canyon Roa
To:	Bangerter Highway	5200 West
Length:	3.20 miles	Towne Market Pla

Project Location Map

n Locations: bad lace

Rosecrest Road Mountain View Corridor Bangerter Highway

Map ID: 10.54.1.1



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	3.20
Average Daily Traffic (vehicles per day)	31,789
Functional Classification	Minor Arterial
Roadway Ownership	Federal Aid - Local
Urban/Rural Designation	Urban
Number of Key Intersections	6

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	2
Suspected Minor Injury Crashes (B)	26
Possible Injury Crashes (C)	28
No Injury/PDO Crashes (O)	199
Total Crashes	255
Total EPDO Crashes	1,284

In

Intersection Crash History																
											ypes ar					
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
Rose Canyon Road & 13400 Sout	\checkmark	0	0	4	10	7	21	210								
5200 West & 13400 South	✓	0	0	3	11	4	18	196								
Towne Market Place & 13400 Sou		0	0	5	10	6	21	231								
Rosecrest Road & 13400 South	✓	0	0	9	55	38	102	864								
Mountain View Corridor & 13400	 Image: A second s	0	2	6	60	21	89	1,024								
Bangerter Highway & 13400 Sout	 ✓ 	1	3	28	85	26	143	2,785								

Why Was This Location Identified?					
Composite Safety Score	✓				
Historic Crashes	✓				
Critical Crash Rate Differential	✓				
Crash Profile Risk Score	✓				
usRAP - Star Rating (Veh, Ped, Bike)	✓				
Local Street Assessment					

What Crash Types are Over-Represented?								
Fatal Head On (HO)								
Serious Injury	*	Parked Vehicle (PV)	✓					
Pedestrian (Ped)		Single Vehicle	1					
Bicycle (Bike)		Rear to Rear (RR)						
Motorcycle		Rear to Side (RS)						
Angle		Sideswipe (SS)						
Front to Rear (FR)	1	Other/Unknown						

Date Prepared:	3/14/2024
Prepared By:	JSF
Checked By:	EJS

13400 South from 6400 West to Bangerter Highway

13400 South from 6400 West to Bangerter Highway

15% \$

Estimated Project Total: \$

868,977

7,358,000

Construction Engineering/Management

*Mobilization is 10% +/- of the subtotal with a minimum of \$2,500 and a maximum of \$75,000

madelle V Contral

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Project Description/How is safety improved? This project is focused on systemic safety improvements along the corridor including constructing sidewalk in locations where no sidewalk is present, installing center curbed median and limiting access at unsignalized intersections, and striping a buffered bicycle lane where it currently does not exists west of Rosecrest Road. It is also proposed that all school crosings be upgraded to high visibility crosswalk markings.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures



Crosswalk Visibility Enhancements

Opinion of Probable Construction Cost

Segment Improvements										
Item Description	CMF	Applicable Crashes	Quantity	Unit		Unit Price		Unit Price		Item Cost
Install Sidewalk or Walkways	NA	Pedestrian	0.52	MILE	\$	634,000	\$	329,680		
Install Raised Medians on Roadways with Existing TWLTL	0.29	All Crashes	1.72	MILE	\$	928,000	\$	1,596,160		
Traffic Calming - Lane Narrowing	0.68	All Crashes	0.99	MILE	\$	39,000	\$	38,610		
Install Buffered Bicycle Lane	NA	Bicycle	0.99	MILE	\$	26,000	\$	25,740		
							\$	-		
							\$	-		
							\$	-		
							\$	-		
							\$	-		
							\$	-		
							\$	-		

Intersection Improveme	ents									
	Item Descriptio	n	CMF	Applicable Crashes	Quantity	Unit	Unit F	Price	li li	tem Cost
Install High Visibility Cros	swalk Markings		0.6	Pedestrian	11.00	XING	\$	2,500	\$	27,500
Protected Intersection			NA	All Crashes	2.00	INT	\$	650,000	\$	1,300,000
Provide Left-Turn Lanes			0.52 - 0.72	Rural	2.00	LANE	\$	300,000	\$	600,000
Provide Right-Turn Lane	S		0.74 - 0.86	All Crashes	2.00	LANE	\$	150,000	\$	300,000
Add Bicycle Treatments a	at Intersections		NA	All Crashes	2.00	INT	\$	9,000	\$	18,000
									\$	-
									\$	-
									\$	-
									\$	-
									\$	-
									\$	-
						Imp	rovements	Subtotal:	\$	4,235,690
							n: (% +/-)*	10%		75,000
						affic Contr	· /	5%		211,785
				Items Not E	stimated / C	Contingend	:y: (% +/-)	30%	\$	1,270,707
						Estimate	d Construct	ion Cost:	\$	5,793,182
Local Match [†] :	20%	\$ 1,471,600								
[†] Toward SS4A Impleme	ntation Grants			Prec	onstruction	Engineerii	ng/Design	12%	\$	695,182
							Utilities**		\$	-
							ROW**		\$	-

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the *Countermeasure Toolbox* for a complete list of safety countermeasures.

**To be evaluated during feasibility study/design

Additional Improvements #1:	
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

Use Restricted 23 U.S.C. § 407

12600/Herriman Boulevard Anthem Park Boulevard

3/14/2024

MA

EMF

Date Prepared:

Prepared By:

Checked By:

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Comprehensive Safety Action Plan

Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	12600/Herriman Boulevard & Anthem Park Boulevard
Jurisdiction(s):	Herriman
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Medium

Location Description

Roadway:NAFrom:NATo:NALength:NA

Project Location Map

Key Intersection Locations: Herriman Boulev

Location Map

an Boulev

Map ID: 10.54.2



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	NA
Average Daily Traffic (vehicles per day)	NA
Functional Classification	NA
Roadway Ownership	NA
Urban/Rural Designation	NA
Number of Key Intersections	NA

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	NA
Suspected Serious Injury Crashes (A)	NA
Suspected Minor Injury Crashes (B)	NA
Possible Injury Crashes (C)	NA
No Injury/PDO Crashes (O)	NA
Total Crashes	NA
Total EPDO Crashes	NA

Intersection Crash History

Why Was This Location Identified?							
Composite Safety Score							
Historic Crashes							
Critical Crash Rate Differential							
Crash Profile Risk Score							
usRAP - Star Rating (Veh, Ped, Bike)							
Local Street Assessment							

What Crash Types are Over-Represented?								
Fatal	Head On (HO)							
Serious Injury	Parked Vehicle (PV)							
Pedestrian (Ped)	Single Vehicle							
Bicycle (Bike)	Rear to Rear (RR)							
Motorcycle	Rear to Side (RS)							
Angle	Sideswipe (SS)							
Front to Rear (FR)	Other/Unknown							

										What	Crash T	ypes ar	e Over-	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
Herriman Boulevard & Anthem Pa	 ✓ 	0	0	1	11	4	16	151								
																1
																1

12600/Herriman Boulevard Anthem Park Boulevard

and the second

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Project Description/How is safety improved?

This project recommends the following improvements to the intersection of W Herriman Blvd/Anthem Park Blvd: protected intersection improvements including bulbouts on all possible approaches and other improvements to increase pedestrian visibility; eastbound and westbound right-turn lane; advance warning signage on east and west approaches; retroreflective backplates/borders; high-visibility crossing, signage and ADA improvements at the intersection.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures



Opinion of Probable Construction Cost

Segment Improvements							
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Co	ost
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Intersection Improvements Item Description		CMF	Applicable Crashes	Quantity	Unit	Uni	t Price		Item Cost	
Protected Intersection		NA	All Crashes	1.00	INT	\$	650,000	\$	650,000	
Provide Right-Turn Lanes		0.74 - 0.86		2.00	LANE	\$	150,000	Ŧ	300,000	
Systemic Low-Cost Countermeasures at Stop-Control	Intersection	0.73 - 0.9	All Crashes	1.00	INT	ŝ	19,000	\$	19,000	
Install Retroreflective Backplates/Boarders		0.10 0.0		8.00		*	,	\$	-	
Install High-Visibility Crosswalk		0.6 - 0.75	Pedestrian	1.00	XING	\$	36,000	\$	36,000	
		0.0 0.10	1 ouootinuit			Ť		\$		
								\$	-	
								\$	-	
								\$	-	
								\$	-	
								\$	-	
					Imp	rovemen	ts Subtotal:	\$	1,005,000	
				1	Mobilization	n: (% +/-)	* 10%	\$	75,000	
				Tra	affic Contr	ol: (% +/·) 5%	\$	50,250	
			Items Not E	stimated / C	Contingend	;y: (% +/-) 30%	\$	301,500	
					Estimate	d Constru	uction Cost:	\$	1,431,750	
Local Match [†] : 20% \$	363,800									
[†] Toward SS4A Implementation Grants			\$	171,810						
,				onstruction	5	Utilities*		\$	-	
						ROW**		\$	-	
			Constru	ction Engin	eering/Ma	nagemer	t 15%	\$	214,763	
				, i i i i i i i i i i i i i i i i i i i	Ĕstin	nated Pro	ject Total:	\$	1,819,000	
	*Mobilizatio	*Mobilization is $10\% \pm 1/_{\odot}$ of the subtotal with a minimum of \$2,500 and a maximum of \$75,000								

*Mobilization is 10% +/- of the subtotal with a minimum of \$2,500 and a maximum of \$75,000 **To be evaluated during feasibility study/design

Additional Potential Improvements

Intersection Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the *Countermeasure Toolbox* for a complete list of safety countermeasures.

Additional Improvements #1:	Set Appropriate Speed Limits for All Road Users
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

13400 South from 6400 West to Bangerter Highway

Date Prepared: Prepared By:

Checked By:

3/14/2024

JSF

EJS

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	Sentinel Ridge Boulevard from 13400 South to 14230 South
Jurisdiction(s):	Herriman
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Low

Location Description

Roadway: From: To: Length:

Sentinel Ridge Boulevard 13400 South 14230 South miles 1.09

Project Location Map

h

Key Intersection Locations: 14230 South

> 10.54.3 Map ID:



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	1.09
Average Daily Traffic (vehicles per day)	8,542
Functional Classification	Local
Roadway Ownership	Local
Urban/Rural Designation	Urban
Number of Key Intersections	1

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	0
Suspected Minor Injury Crashes (B)	1
Possible Injury Crashes (C)	4
No Injury/PDO Crashes (O)	18
Total Crashes	23
Total EPDO Crashes	86

Intersection Crash History

Why Was This Location Identified?				
Composite Safety Score				
Historic Crashes	✓			
Critical Crash Rate Differential	1			
Crash Profile Risk Score				
usRAP - Star Rating (Veh, Ped, Bike)				
Local Street Assessment				

What Crash Types are Over-Represented?					
Fatal		Head On (HO)	✓		
Serious Injury		Parked Vehicle (PV)			
Pedestrian (Ped)		Single Vehicle			
Bicycle (Bike)		Rear to Rear (RR)			
Motorcycle		Rear to Side (RS)			
Angle		Sideswipe (SS)			
Front to Rear (FR)	~	Other/Unknown			

										What	Crash T	ypes ar	e Over-	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
14230 South & Sentinel Ridge Bo		0	0	1	5	3	9	82		✓						
																1
																1
																1

13400 South from 6400 West to Bangerter Highway

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WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Project Description/How is safety improved?

This project recommends the systemic safety improvements along the corridor including traffic calming, median installation, and active transportation improvements. These improvements include lane narrow and median installation along the entire corridor. Active transportation improvements include the extension of the muti-use path and bulbouts at all school crossings. It is also proposed that the intersection of 14230 South/Sentinel Ridge Boulevard be evaluated through Intersection Control Evaluation (ICE) study. Also the intersection should consider RRFB and higher visibility crosswalks. A pedestrian refuge island should be considered at the existing HAWK signal crossing.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures



Rectangular Rapid Flashing Beacons (RRFB)

Opinion of Probable Construction Cost

Segment Improvements						
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Cost
Traffic Calming - Lane Narrowing	0.68	All Crashes	1.09	MILE	\$ 39,000	\$ 42,510
Install Medians and Pedestrian Refuge Islands in Urban Areas	0.44	Pedestrian	1.09	LE (URBA	\$ 958,000	\$ 1,044,220
Install a Separated Bicycle Lane (Cycle Track or Multi-Use Path)	NA	Bicycle	0.73	MILE	\$ 553,000	\$ 403,690
Traffic Calming - Bulbouts	0.68	All Crashes	16.00	EACH	\$ 36,000	\$ 576,000
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -

Intersection Improvements Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	1	Item Cost
Perform an Intersection Control Evaluation and Implement	NA	All Crashes	1.00	INT	\$ 225,000	\$	225,000
Install a Rectangular Rapid Flashing Beacons (RRFB)	0.526	Pedestrian	1.00	XING (2)		\$	15,000
Install Pedestrian Refuge Island	0.520	Pedestrian	1.00	EACH	\$ 30,000	Ψ \$	30,000
Install High-Visibility Crosswalk	0.6 - 0.75		3.00	XING	\$ 36,000	\$	108,000
	0.0 - 0.75	reuesinan	3.00	AING	φ <u>30,000</u>	φ Φ	108,000
	_					φ	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
				Imp	rovements Subtotal:	\$	2,444,420
			/	Mobilizatior	n: (% +/-)* 10%	\$	75,000
				affic Contro	(*	122,221
		Items Not E					733,326
			ounatou / c		d Construction Cost:	*	3,374,967
Local Match [†] : 20% \$ 857,400				Loundator		Ψ	0,01 1,001
		D		-		¢	10.1.000
[†] Toward SS4A Implementation Grants		Prec	onstruction	Engineerii		\$	404,996
					Utilities**	\$	-
					ROW**	\$	-
		Constru	ction Engin				506,245
				Estim	ated Project Total:	\$	4,287,000

*Mobilization is 10% +/- of the subtotal with a minimum of \$2,500 and a maximum of \$75,000 **To be evaluated during feasibility study/design

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the **Countermeasure Toolbox** for a complete list of safety countermeasures.

Additional Improvements #1: Additional Improvements #2: Additional Improvements #3: Additional Improvements #4: Additional Improvements #5:

Disclaimer:

Project Information Sheet

South Salt Lake Valley
13400 South from 6400 West to Bangerter Highway
Riverton, Herriman
Intersections, Roadway Departures, Teen Driver
Medium, Low

Location Description

Roadway:	13400 South	Key Intersection Lo
From:	6400 West	Rose Canyon Road
То:	Bangerter Highway	5200 West
Length:	3.20 miles	Towne Market Place

Project Location Map

ocations: e

Rosecrest Road Mountain View Corridor Bangerter Highway

Map ID: 10.55.1.1



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	3.20
Average Daily Traffic (vehicles per day)	31,789
Functional Classification	Minor Arterial
Roadway Ownership	Federal Aid - Local
Urban/Rural Designation	Urban
Number of Key Intersections	6

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	2
Suspected Minor Injury Crashes (B)	26
Possible Injury Crashes (C)	28
No Injury/PDO Crashes (O)	199
Total Crashes	255
Total EPDO Crashes	1,284

Inter

										What	Crash T	ypes ar	e Over-	Repres	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
Rose Canyon Road & 13400 Sout	✓	0	0	4	10	7	21	210								
200 West & 13400 South	✓	0	0	3	11	4	18	196								
owne Market Place & 13400 Sou		0	0	5	10	6	21	231								
Rosecrest Road & 13400 South	✓	0	0	9	55	38	102	864								
Nountain View Corridor & 13400	✓	0	2	6	60	21	89	1,024								l
Bangerter Highway & 13400 Sout	✓	1	3	28	85	26	143	2,785								

Why Was This Location Identified?				
Composite Safety Score	√			
Historic Crashes	✓			
Critical Crash Rate Differential	✓			
Crash Profile Risk Score	✓			
usRAP - Star Rating (Veh, Ped, Bike)	✓			
Local Street Assessment				

What Crash Types are Over-Represented?					
Fatal		Head On (HO)			
Serious Injury	1	Parked Vehicle (PV)	✓		
Pedestrian (Ped)		Single Vehicle	1		
Bicycle (Bike)		Rear to Rear (RR)			
Motorcycle		Rear to Side (RS)			
Angle		Sideswipe (SS)			
Front to Rear (FR)	~	Other/Unknown			

Date Prepared:	3/14/2024
Prepared By:	JSF
Checked By:	EJS

13400 South from 6400 West to Bangerter Highway

13400 South from 6400 West to Bangerter Highway

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WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Project Description/How is safety improved? This project is focused on systemic safety improvements along the corridor including constructing sidewalk in locations where no sidewalk is present, installing center curbed median and limiting access at unsignalized intersections, and striping a buffered bicycle lane where it currently does not exists west of Rosecrest Road. It is also proposed that all school crosings be upgraded to high visibility crosswalk markings.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures



Crosswalk Visibility Enhancements

Opinion of Probable Construction Cost

Segment Improvements						
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Cost
Install Sidewalk or Walkways	NA	Pedestrian	0.52	MILE	\$ 634,000	\$ 329,680
Install Raised Medians on Roadways with Existing TWLTL	0.29	All Crashes	1.72	MILE	\$ 928,000	\$ 1,596,160
Traffic Calming - Lane Narrowing	0.68	All Crashes	0.99	MILE	\$ 39,000	\$ 38,610
Install Buffered Bicycle Lane	NA	Bicycle	0.99	MILE	\$ 26,000	\$ 25,740
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -

Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit	Price	lt	em Cost
nstall High Visibility Crosswalk Markings	0.6	Pedestrian	11.00	XING	\$	2,500	\$	27,500
						,	\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
						s Subtotal:		2,017,690
				Nobilization				75,000
				affic Contr				100,885
		Items Not E	stimated / 0					605,307
				Estimate	d Constru	ction Cost:	\$	2,798,882
Local Match [†] : 20% \$ 711,000							·	
[†] Toward SS4A Implementation Grants		Prec	onstruction	Engineerii			\$	335,866
					Utilities**		\$	-
					ROW**		\$	-
		Constru	ction Engin					419,832
						ect Total:		3,555,000
		- of the subtotal with a		ot \$2,500 a	ind a max	mum of \$7	5,000	
** I O be	evaluated duri	ng feasibility study/desi	ıgn					

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the **Countermeasure Toolbox** for a complete list of safety countermeasures.

Additional Improvements #1: Additional Improvements #2: Additional Improvements #3: Additional Improvements #4: Additional Improvements #5:

Disclaimer:

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan South Jordan Parkway from Bangerter Highway to Redwood Road

Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	South Jordan Parkway from Bangerter Highway to Redwood Road
Jurisdiction(s):	South Jordan
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Medium, Low

Date Prepared:	3/14/2024
Prepared By:	JSF
Checked By:	EJS

Location Description

Roadway:	Sout
From:	Ban
То:	Red
Length:	1.98

th Jordan Parkway gerter Highway wood Road miles

Key Intersection Locations: 2200 West

Project Location Map



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	1.98
Average Daily Traffic (vehicles per day)	18,403
Functional Classification	Other Principal Arteria
Roadway Ownership	State
Urban/Rural Designation	Urban
Number of Key Intersections	1

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	0
Suspected Minor Injury Crashes (B)	6
Possible Injury Crashes (C)	12
No Injury/PDO Crashes (O)	75
Total Crashes	93
Total EPDO Crashes	345

Intersection Crash History

Intersection Grash History																
								ĺ		What	Crash T	vpes ar	e Over-l	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike		FR	HO	PV	RR/RS	SS
2200 West & South Jordan Parkw	✓	0	1	2	26	17	46	451								1
																ļ
																<u> </u>

Map ID: 10.56.1

Why Was This Location Identified? Composite Safety Score Historic Crashes ¥ Critical Crash Rate Differential ~ Crash Profile Risk Score 1 usRAP - Star Rating (Veh, Ped, Bike) Local Street Assessment

What Crash Types are Over-Represented?						
Fatal	Head On (HO)					
Serious Injury		Parked Vehicle (PV)				
Pedestrian (Ped)		Single Vehicle				
Bicycle (Bike)		Rear to Rear (RR)				
Motorcycle		Rear to Side (RS)				
Angle		Sideswipe (SS)				
Front to Rear (FR)	~	Other/Unknown	~			

WASATCH FRONT REGIONAL COUNCIL

South Jordan Parkway from Bangerter Highway to Redwood Road

Project Description/How is safety improved?

Safety Action I

This project is focused on systemic access management and active transportation safety improvements. It is proposed that center curbed medians be installed in the existing two-way left-turn lane and all unsignalized intersections and access drives become right-in/right-out or 3/4 access. It is also proposed that all school crosswalks be upgraded to include high visibility markings. All signalized intersections include bicycle treatment upgrades. The intersections of 2200 West and 2700 West should be upgraded to flashing yellow area type left-turn signal heads.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures









Opinion of Probable Construction Cost

Segment Improvements						
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Cost
Install Raised Medians on Roadways with Existing TWLTL	0.29	All Crashes	0.86	MILE	\$ 928,000	\$ 798,080
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -

Intersection Improvements								
Item Description	CMF	Applicable Crashes	Quantity	Unit	Uni	t Price		tem Cost
Change a 5-section "Doghouse" to Flashing Yellow Arrow	0.75 - 0.93	Left-Turn	1.00	INT	\$	8,000	\$	8,000
Upgrade pedestrian push buttons to Audible Pedestrian Signals (APS)	NA	Pedestrian	1.00	INT	\$	4,000	\$	4,000
Install High Visibility Crosswalk Markings	0.6	Pedestrian	6.00	XING	\$	2,500	\$	15,000
Add Bicycle Treatments at Intersections	NA	All Crashes	5.00	INT	\$	9,000	\$	45,000
Change a permissive only to Flashing Yellow Arrow	0.5 - 0.6	Left-Turn	1.00	INT	\$	8,000	\$	8,000
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
				Imp	rovemen	ts Subtotal:	\$	878,080
				Nobilizatio				75,000
				affic Contr				43,904
		Items Not E	stimated / C	Contingena	су: (% +/-) 30%	\$	263,424
<u>.</u>				Estimate	d Constru	ction Cost:	\$	1,260,408
Local Match [†] : 20% \$ 320,200								
[†] Toward SS4A Implementation Grants		Prece	onstruction	Engineeri	ng/Desigi	า 12%	\$	151,249
					Utilities*	*	\$	-
					ROW**		\$	-
		Construe	ction Engin	eering/Ma	nagemen	t 15%	\$	189,061
						ject Total:		1,601,000
		of the subtotal with a		of \$2,500 a	and a max	kimum of \$7	5,000	
**To be eva	luated during	g feasibility study/desi	gn					

To be evaluated during reasibility study

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the **Countermeasure Toolbox** for a complete list of safety countermeasures.

Additional Improvements #1:	
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

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Daybreak Parkway/SR 175 from 4000 West to 3600 West WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	Daybreak Parkway/SR 175 from 4000 West to 3600 West
Jurisdiction(s):	South Jordan
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Low

Location Description

Roadway: From: To: Length:

Daybreak Parkway/SR 175 4000 West 3600 West 0.50 miles

Key Intersection Locations: 4000 West

Composite Safety Score Historic Crashes

Crash Profile Risk Score

Local Street Assessment

Fatal

Angle Front to Rear (FR)

Serious Injury Pedestrian (Ped)

Bicycle (Bike) Motorcycle

Critical Crash Rate Differential

usRAP - Star Rating (Veh, Ped, Bike)

Map ID:

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3/14/2024

JSF

EJS

Date Prepared:

Prepared By:

Checked By:

Why Was This Location Identified?

What Crash Types are Over-Represented? Head On (HO)

Parked Vehicle (PV) Single Vehicle Rear to Rear (RR)

Rear to Side (RS) Sideswipe (SS)

Other/Unknown



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	0.50
Average Daily Traffic (vehicles per day)	30,818
Functional Classification	Other Principal Arteria
Roadway Ownership	State
Urban/Rural Designation	Urban
Number of Key Intersections	1

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	0
Suspected Minor Injury Crashes (B)	4
Possible Injury Crashes (C)	8
No Injury/PDO Crashes (O)	31
Total Crashes	43
Total EPDO Crashes	211

Intersection Crash History

mersection orasir matory																
										What	Crash T	ypes ar	e Over-	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike		FR	HO	PV	RR/RS	SS
000 West & Daybreak Parkway	✓	0	2	10	47	27	86	971								
· · ·																
																_

and the second and the WASATCH FRONT REGIONAL COUNCIL prehensive Safety Action Plan

Daybreak Parkway/SR 175 from 4000 West to 3600 West

Project Description/How is safety improved?

This project is focused on systemic bicycle and pedestrian safety improvements along the corridor. Improvements include intersection improvements and a bicycle signal at the Bangerter Highway interchange. Green bicycle markings/lanes should also be considered at this location. Leading pedestrian intervals are proposed at the 4000 West, River Heights Drive, and Parkway Plaza Drive intersections.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis

Proposed Proven Safety Countermeasures



Opinion of Probable Construction Cost

Segment Improvements							
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	lter	n Cost
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Item Description	CMF	Applicable Crashes	Quantity	Unit		Unit Price		Item Cost
Install a Separate Bicycle Traffic Signal	NA	All Crashes	2.00	INT	\$	21,000	\$	42,000
Add Bicycle Treatments at Intersections	NA	All Crashes	5.00	INT	\$	9,000	\$	45,000
Upgrade pedestrian push buttons to Audible Pedestrian Signals (AP	S) NA	Pedestrian	5.00	INT	\$	4,000	\$	20,000
Include a Leading Pedestrian Interval (LPI)	0.87	Pedestrian	3.00	INT	\$	3,000	\$	9,000
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
							\$	-
						ments Subtotal:		116,000
				Mobilizatio				11,600
				affic Contr	· ·	/		5,800
		Items Not E	stimated / 0				<u> </u>	34,800
				Estimate	d Cor	struction Cost:	\$	168,200
Local Match [†] : 20% \$ 42,800								
[†] Toward SS4A Implementation Grants		Prec	onstruction	Engineeri			\$	20,184
					Utilit	ies**	\$	-
					ROV	-	\$	-
		Constru	ction Engin	eering/Ma	nager	ment 15%	\$	25,230
				Estin	nated	Project Total:	\$	214,000
*Mobiliz	ation is 10% +/-	 of the subtotal with a 	minimum o	of \$2,500 a	and a	maximum of \$7	5,000)
**To be	evaluated durin	ng feasibility study/desi	ign					

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the Countermeasure Toolbox for a complete list of safety countermeasures.

Additional Improvements #1:	Set Appropriate Speed Limits for All Road Users
Additional Improvements #2:	
Additional Improvements #3:	Green Bicycle Lanes
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan Redwood Road and Shields Lane Intersection Improvements

Project Information Sheet

NA

NA

NA NA

South Salt Lake Valley
Redwood Road and Shields Lane Intersection Improvement
South Jordan
Intersections, Roadway Departures, Teen Driver
Medium

Location Description

Roadway: From: To: Length:

Project Location Map

nts

Date Prepared:	3/14/2024
Prepared By:	JSF
Checked By:	BCC

Key Intersection Locations: Shields Lane & Redwood Road

> 10.56.3 Map ID:



Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	NA
Average Daily Traffic (vehicles per day)	NA
Functional Classification	NA
Roadway Ownership	NA
Urban/Rural Designation	NA
Number of Key Intersections	NA

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	NA
Suspected Serious Injury Crashes (A)	NA
Suspected Minor Injury Crashes (B)	NA
Possible Injury Crashes (C)	NA
No Injury/PDO Crashes (O)	NA
Total Crashes	NA
Total EPDO Crashes	NA

Intersection Crash History

Composite Safety Score	NA
Historic Crashes	NA
Critical Crash Rate Differential	NA
Crash Profile Risk Score	NA
usRAP - Star Rating (Veh, Ped, Bike)	NA
Local Street Assessment	NA
What Crash Types are Over-Represented?	

Why Was This Location Identified?

What Crash T	ypes ar	e Over-Represented?	
Fatal	NA	Head On (HO)	NA
Serious Injury	NA	Parked Vehicle (PV)	NA
Pedestrian (Ped)	NA	Single Vehicle	NA
Bicycle (Bike)	NA	Rear to Rear (RR)	NA
Motorcycle	NA	Rear to Side (RS)	NA
Angle	NA	Sideswipe (SS)	NA
Front to Rear (FR)	NA	Other/Unknown	NA

								What	Crash T	ypes ar	e Over-	Represe	ented?			
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
Shields Lane & Redwood Road	✓	0	3	17	44	46	110	1,206								
																L
																L
																

WASATCH FRONT REGIONAL COUNCIL

Redwood Road and Shields Lane Intersection Improvements

Project Description/How is safety improved?

Safety Action Plan

This project recommends the following improvements to the intersection of Shields Lane and Redwood Road: protected intersection improvements, performing a Road Safety Audit (RSA), and Intersection Control Evaluation (ICE) study to determine the optimal intersection control type for this location to improve safety for all users. It is anticipated that the study results could result in an intersection control type that reduces left-turn conflicts. Other improvements are proposed to increase pedestrian and bicyclist visibility.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures







Road Safety Audit

Opinion of Probable Construction Cost

Segment Improvements								
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Cos	st	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	
						\$	-	

Intersection Improvements							
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit P	rice	Item Cost
Perform Road Safety Audits	0.4-0.9	All Crashes	1.00	INT	\$	5,000	\$ 5,000
Perform an Intersection Control Evaluation and Implement	NA	All Crashes	1.00	INT	\$	225,000	\$ 225,000
Protected Intersection	NA	All Crashes	1.00	INT	\$	650,000	\$ 650,000
Upgrade Existing Crosswalk to High-Visibility Crosswalk	0.6 - 0.75	Pedestrian	3.00	XING	\$	37,000	\$ 111,000
Install Reduced Left-Turn Conflict Control Intersection Type	0.37 - 0.78	8 Fatal & Injury	1.00	INT	\$	767,000	\$ 767,000
Add Bicycle Treatments at Intersections	NA	All Crashes	1.00	INT	\$	9,000	\$ 9,000
							\$ -
							\$ -
							\$ -
							\$ -
							\$ -
				Imp	rovements	Subtotal:	\$ 1,767,000
					n: (% +/-)*	10%	\$ 75,000
					ol: (% +/-)	5%	\$ 88,350
		Items Not E	stimated / C	Contingen	cy: (% +/-)	30%	\$ 530,100
				Estimate	d Constructi	ion Cost:	\$ 2,460,450
Local Match [†] : 20% \$ 625,000							
[†] Toward SS4A Implementation Grants		Prec	onstruction	Engineeri	ng/Design	12%	\$ 295,254
				•	Utilities**		\$ -
					ROW**		\$ -
		Constru	ction Engin			15%	369,068
				Estin	nated Proje	ct Total:	\$ 3,125,000

*Mobilization is 10% +/- of the subtotal with a minimum of \$2,500 and a maximum of \$75,000 **To be evaluated during feasibility study/design

Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the *Countermeasure Toolbox* for a complete list of safety countermeasures.

	Set Appropriate Speed Limits for All Road Users
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

Project Information Sheet

GFA(s):	South Salt Lake Valley
Project Name:	SR 209/SR 48 from Kennecott Road to 10200 South
Jurisdiction(s):	Copperton
Emphasis Areas:	Intersections, Roadway Departures, Teen Driver
Equity Priority:	Low

Location Description

SR 209/3	SR 48
Kenneco	tt Roa
10200 S	outh
0.41	n
	SR 209/5 Kenneco 10200 So 0.41

ad niles

Project Location Map



Key Intersection Locations:

Segment Information and Safety Analysis Areas Summary

Roadway Characteristics	Value
Length (miles)	0.41
Average Daily Traffic (vehicles per day)	2,004
Functional Classification	Major Collector
Roadway Ownership	State
Urban/Rural Designation	Rural
Number of Key Intersections	0

Segment Crash History

Crash History (2018 - 2022)	# of crashes
Fatal Crashes (K)	0
Suspected Serious Injury Crashes (A)	0
Suspected Minor Injury Crashes (B)	1
Possible Injury Crashes (C)	1
No Injury/PDO Crashes (O)	6
Total Crashes	8
Total EPDO Crashes	40

Intersection Crash History

Why Was This Location Identified?		
osite Safety Score		
c Crashes 🗸	ſ	
Crash Rate Differential	~	
Profile Risk Score		
- Star Rating (Veh, Ped, Bike)		
Street Assessment		
	ſ	

What Crash Types are Over-Represented?				
Fatal	Head On (HO)			
Serious Injury	Parked Vehicle (PV)			
Pedestrian (Ped)	Single Vehicle			
Bicycle (Bike)	Rear to Rear (RR)			
Motorcycle	Rear to Side (RS)			
Angle	Sideswipe (SS)			
Front to Rear (FR)	Other/Unknown			

										What	Crash T	vpes ar	e Over-	Represe	ented?	
Intersections	Signal	K	Α	В	С	0	Total	EPDO	K/A	Ped/Bike	Angle	FR	HO	PV	RR/RS	SS
																L
																ļ

Prepared By: JSF Checked By: EJS

Date Prepared:

SR 209/SR 48 from Kennecott Road to 10200 South

3/14/2024

Map ID: 10.57.1

SR 209/SR 48 from Kennecott Road to 10200 South

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WASATCH FRONT REGIONAL COUNCIL Comprehensive Safety Action Plan

Project Description/How is safety improved?

This project is focused on system traffic calming measures to help reduce vehicle speed and improve safety as all users enter Copperton. This includes driver speed feedback signs, sidewalk extension and infill where missing, lane narrowing, and wider lane lines.

This project description represents potential safety improvement strategies that could be implemented at this location, as well as other locations with similar conditions. Additional improvement strategies could be considered subject to engineering analysis.

Proposed Proven Safety Countermeasures



Opinion of Probable Construction Cost

Segment Improvements						
Item Description	CMF	Applicable Crashes		Unit	Unit Price	Item Cost
Install Driver Feedback Speed Limit Signs	NA	All Crashes	2.00	EACH	\$ 10,000	\$ 20,000
Traffic Calming - Lane Narrowing	0.68	All Crashes	0.41	MILE	\$ 39,000	\$ 15,990
Traffic Calming - Wider Lane Lines	0.68	All Crashes	0.41	MILE	\$ 21,000	\$ 8,610
Install Sidewalk or Walkways	NA	Pedestrian	0.36	MILE	\$ 634,000	\$ 228,240
· · · ·						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
Intersection Improvements						
Item Description	CMF	Applicable Crashes	Quantity	Unit	Unit Price	Item Cost
						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
						\$-
				Imp	rovements Subtotal:	\$ 272,840
			٨	/lobilizatior	n: (% +/-)* 10%	\$ 27,290
			Tra	affic Contr	ol: (% +/-) 5%	\$ 13,642
		Items Not Es	stimated / C	Contingend	y: (% +/-) 30%	\$ 81,852
				Estimate	Construction Cost:	\$ 395,624
Local Match [†] : 20% \$ 100,600						
t=		Preco	onstruction	Engineerii	ng/Design 12%	\$ 47,475
' Toward SS4A Implementation Grants						
[†] Toward SS4A Implementation Grants				-	Utilities**	\$-
' Toward SS4A Implementation Grants				-		•
' Toward SS4A Implementation Grants			ction Engin	eerina/Mai	ROW**	\$ -

*Mobilization is 10% +/- of the subtotal with a minimum of \$2,500 and a maximum of \$75,000 **To be evaluated during feasibility study/design

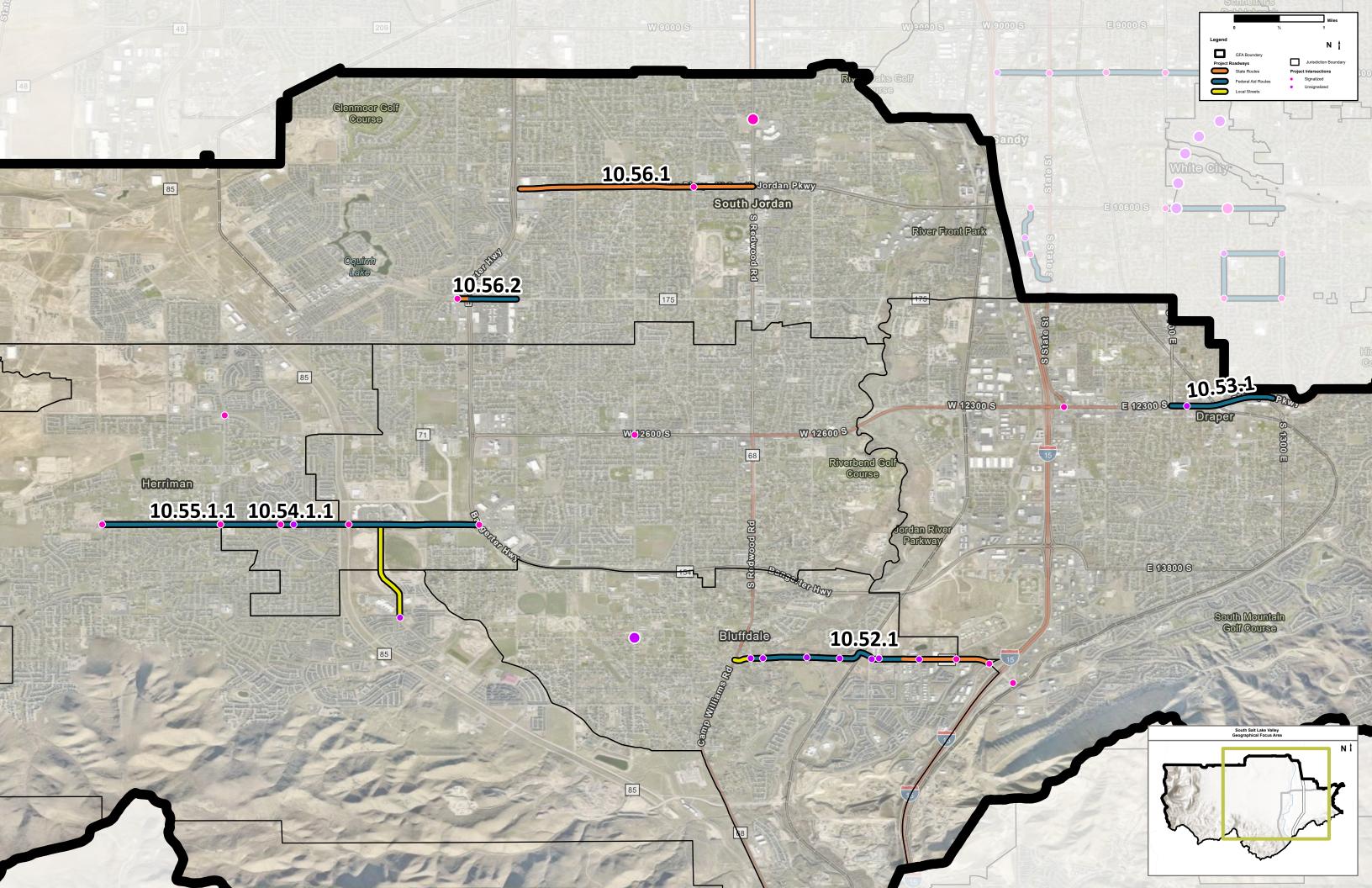
Additional Potential Improvements

Additional safety improvements could be considered that were not included due to availability of data, need for site-specific information, and/or agency/jurisdiction input. Potential additional countermeasures are listed below. Refer to the **Countermeasure Toolbox** for a complete list of safety countermeasures.

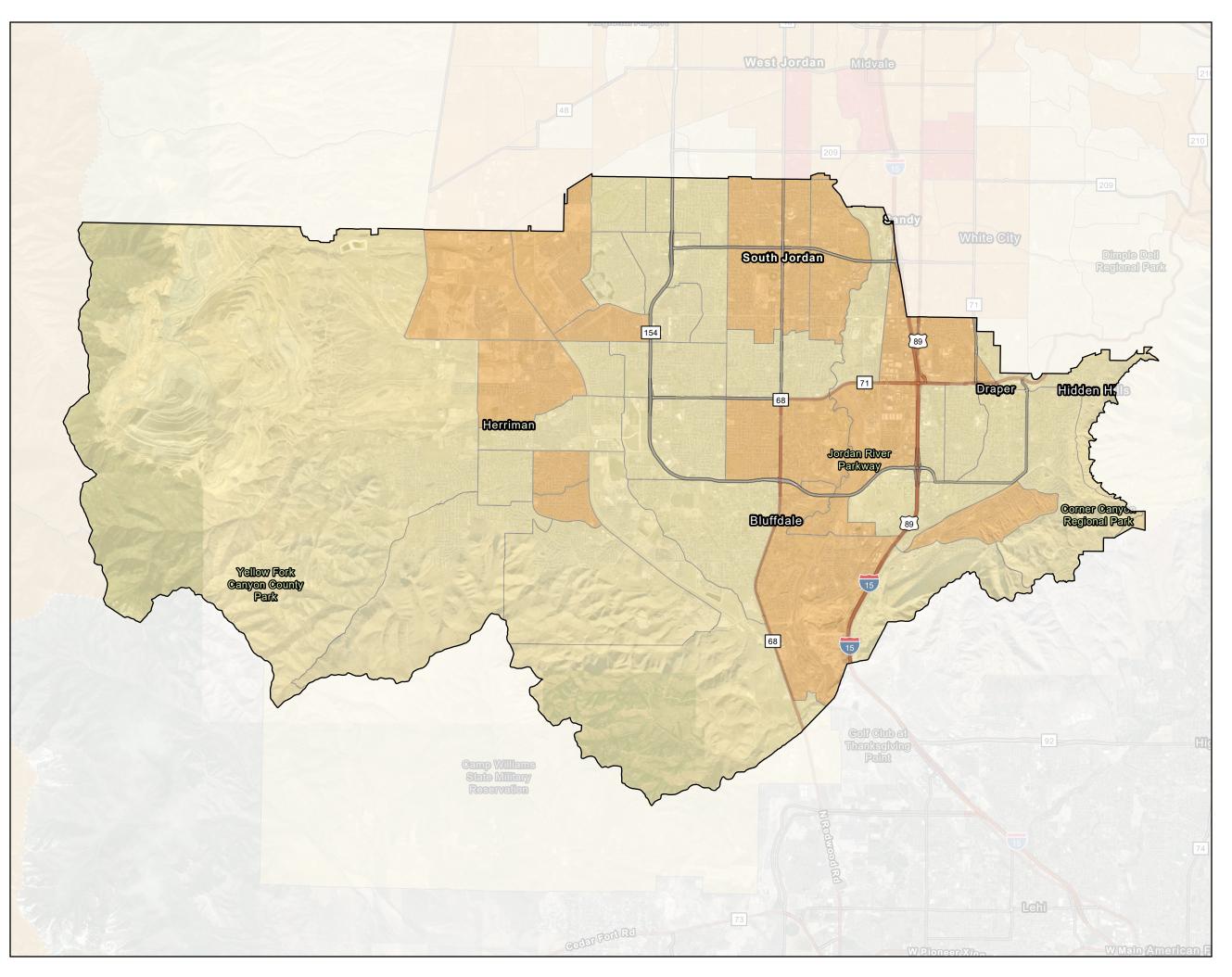
Additional Improvements #1:	Targeted Enforcement and Deterrence
Additional Improvements #2:	
Additional Improvements #3:	
Additional Improvements #4:	
Additional Improvements #5:	

Disclaimer:

SOUTH SALT LAKE VALLEY CASE STUDY PROJECT LOCATION MAP



SOUTH SALT LAKE VALLEY EQUITY INDEX MAP



South Salt Lake Valley Equity Need Areas High Medium Low