



COLORADO Department of Transportation

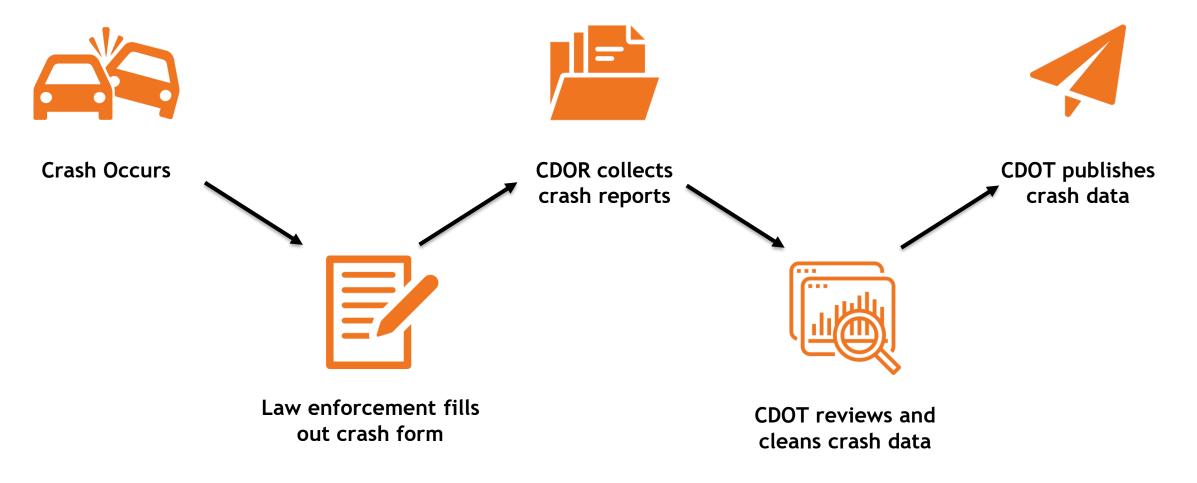
Crash Data Processing

Data Uniforming Geolocating Real-world Application



Data Overview & Safety Approach



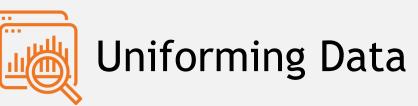






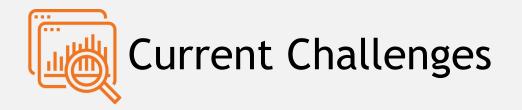
🗴 Export t	o Excel											
	City :	County	Latitude :	Longitude	Location 1	Link :	Location 2	Location :	Road : Description		MHE :	Crash Type
294231		ARAPAHOE	39.57224	-104.87364	125 SB	x	I25 SB COUNTY LINE OFF RAMP/DRY CREEK I25 SB ON RAMP	On Roadway		Side to Side-Same Direction	Side to Side-Same Direction	Sideswipe Same Direction
325381		ARAPAHOE	39.63675	-104.98778	S BROADWAY	х	E RADCLIFF AVE					
328970		ARAPAHOE			UNIT BLOCK W. DARTMOUTH	x	SO. BROADWAY					
342464		ARAPAHOE	39.65104	-104.98059	E JEFFERSON AVE	x	E HAMPDEN BYP/S PEARL ST	On Roadway		Front to Side	Front to Side	
296604		ARAPAHOE	39.61392	-104.99952	S HICKORY ST	00191FN	W LITTLETON BLVD	On Roadway	Alley Related	Light Pole/Utility Pole	Light Pole/Utility Pole	
341095	AURORA	ARAPAHOE			E COLFAX AVE	AT	1225	On Roadway	At Intersection	Front to Side	Front to Side	Approach Turn
341089	CENTENNIAL	ARAPAHOE	39.59487	-104.86917	10300 E ARAPAHOE RD	AT	S GALENA ST	On Roadway	At Intersection	Front to Rear	Front to Rear	Rear-End
240083		ARAPAHOE	39.59501	-104.77782	18100 E ARAPAHOE RD	х		On Roadway	At Intersection	Front to Side	Front to Side	
276873		ARAPAHOE			E COLFAX AVE		N MOLINE ST	On Roadway	At Intersection	Other Non-Collision	Front to Front	
N 1	2 3 4 5		100 🔻 items per page									1 - 100 of 176



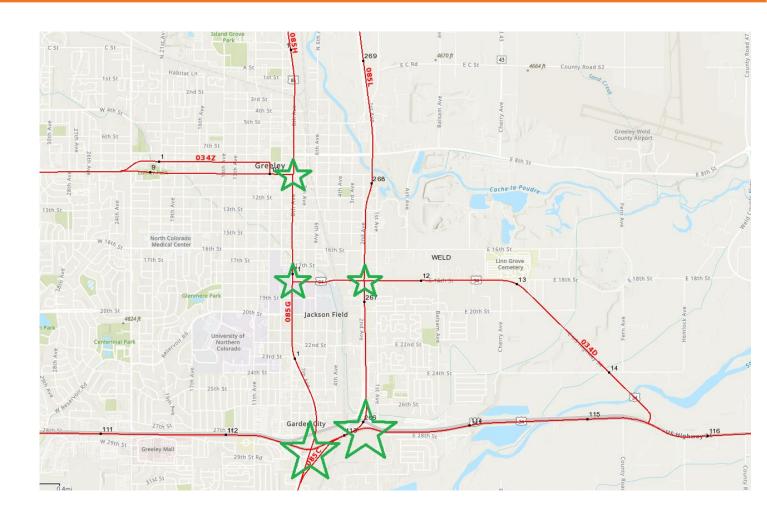


	System Code	Rd_Number :	Rd_Section :	City_Street	Road : Description	City :	County	Location 1	Link	Location 2	Location	Crash Type	MHE	: Fi
285175	2	040C	306.661		At Intersection	AURORA	ARAPAHOE	E COLFAX AVE	AT	N SABLE BLVD	On Roadway	Sideswipe Same Direction	Front to Side	Frc
284295	2	040C	307.135		Driveway Access Related	AURORA	ARAPAHOE	N CHAMBERS RD	AT	E COLFAX AVE	On Roadway	Broadside	Front to Side	Frc
285441	2	083A	64.800		At Intersection	AURORA	ARAPAHOE	S PARKER RD	AT	S CHAMBERS WAY	On Roadway	Approach Turn	Front to Side	Frc
283424	2	083A	70.081		Non-Intersection	AURORA	ARAPAHOE	S PARKER RD	AT	S VAUGHN WY	On Roadway	Sideswipe Same Direction	Front to Side	Frc
284232	2	083A	71.811		Driveway Access Related	AURORA	ARAPAHOE	S PARKER RD	AT	E YALE AVE	On Roadway	Approach Turn	Curb	Frc
284677	2	083A	71.811		At Intersection	AURORA	ARAPAHOE	S PARKER RD	AT	E YALE AVE	On Roadway	Broadside	Front to Side	Fre
285423	7	0055	ABILE	ALAME	At Intersection	AURORA	ARAPAHOE	S ABILENE ST	AT	E ALAMEDA AVE	On Roadway	Rear-End	Front to Rear	Frc
283349	7	0055	ALAME	MOLIN	At Intersection	AURORA	ARAPAHOE	E ALAMEDA AVE	AT	S MOLINE ST	On Roadway	Approach Turn	Front to Side	Frc
283505	7	0055	ALAME	SABLE	At Intersection	AURORA	ARAPAHOE	E ALAMEDA AVE	AT	S SABLE BLVD	On Roadway	Rear-End	Front to Rear	Frc
283327	7	0055	ARAPA	LEWIS	At Intersection	AURORA	ARAPAHOE	E ARAPAHOE RD	AT	S LEWISTON WAY	Ran off left side	Curb	Curb	Cu
283384	7	0055	AUROR	ORCHA	At Intersection	AURORA	ARAPAHOE	S AURORA PKWY	AT	E ORCHARD RD	On Roadway	Broadside	Front to Side	Frc
284275	7	0055	BLACK	HARVA	Intersection Related	AURORA	ARAPAHOE	S BLACKHAWK ST	AT	E HARVARD AVE	On Roadway	Broadside	Front to Side	Fre
203577	7	0055	POSTO	TUNK	Non-Interaction		ADADAUGE		00045EN	E 1970 M/E	On Bondway	Darkad Motor Vahiela	Darland Motor Vahiela	n- • •
	100 items	100 item	5	100 items	100 items	100 items	100 iten	ns 100 it	ems	100 items	12 items	60 items	50 item	15 O





- Fewer crashes with diagrams
- Location information
- Interchanges Highway 34 and Highway 85 have 5 different interchanges in Greeley area
- Missing direction, movement, etc for hit and runs
- Block numbers







	Latitude	Longitude :	System Code	Rd_Number	Rd_Section	City_Street	Road . Description	City :	County :	Location 1	Link :	Location 2
286017	39.62375	-104.90217	2	088A	14.710		Non-Intersection	GREENWOOD VILLAGE	ARAPAHOE	E BELLEVIEW AVE	99999FW	I-25 NB RAMF
286224	39.71089	-104.22341	2	036D	100.937		At Intersection		ARAPAHOE	HWY 36	AT	HWY 40
286962	39.59564	-104.80345	2	083A	65.381	D	At Intersection		ARAPAHOE	PARKER RD SB OFF RAMP	AT	ARAPAHOE RI
287223	39.74023	-104.87523	2	040C	304.107		At Intersection	AURORA	ARAPAHOE	N DAYTON ST	AT	E COLFAX AVE
287611	39.73458	-104.71739	2	470B	20.148	L	Ramp		ARAPAHOE	E-470	AT	MM 20.148
289331	39.65311	-104.96768	2	285D	261.275		At Intersection	CHERRY HILLS VILLAGE	ARAPAHOE	E HAMPDEN AVE	AT	S GILPIN ST
289384	39.65296	-104.94536	2	285D	262.450		Non-Intersection	CHERRY HILLS VILLAGE	ARAPAHOE	E HAMPDEN AVE	AT	S MONROE ST





Save	Mark Coded 🔽	Record Navigation: Next Uncode	d >Next Previous	Project Records							
Form	Type: DR3447	Crash Identifer: 286962	Rec	ord Status: Coded	Project Info:	: 4/7/2023 - Arapal	hoe County - (15/100)	Last Update: 4/27/	2023 19:37	
*9	Crash Header	Case Number:	Pro	cessing Status: Completed	Assigned Na	ame: Alyssa Herrin			Version: 3		
90	Narrative	Location / Road Coding Case Number	System Code	Rd_Number	Rd_Section / Mile Marker	City_Street / Ramp	p Code	Open RD	DF	Road Location 01. On Roadway	•
-	All Involved		2. State Highway 🔻	083A	65.381	D				Road Description	
8	Traffic Unit 1	Location 1 PARKER RD SB OFF RAMP	Link AT	ARAPAHOE RD	Swap	City	•	County 10. ARAPA	HOE 🔻	01. At Intersection TU-1 Direction	•
8	Traffic Unit 2		Longitude	Find on Map	Сору	Agency				06. Southwest	•
\$	Other Crash Fields	39.59564	-104.80345			ARAPAHOE SO (A	(ASO)		•	TU-2 Direction 06. Southwest	•
0	Add Motorist TU	Harmful Event Sequence								TU-3 Direction	
0	Add Non-Motorist TU	First	Second		Third	Fe	ourth				•
		07. Front to Rear	•	•		▼			•	TU-1 Movement	
~	Collapse	MHE								01. Going Straight	•
		07. Front to Rear	•							TU-2 Movement	
		Crash Type	Wild Animal							03. Stopped in Traffic	•
		07. Rear-End	•	•						TU-3 Movement	
											•
		Narrative / Diagram								Approach/ Overtaking Turn	
		Narrative								03. Not Applicable	•
		V2 was stopped at the stop I would be safer to exchange provided the license plate of driving the vehicle today at t stated no. While trying to rea it several times. The damage	Driver of V2 dmitted to								

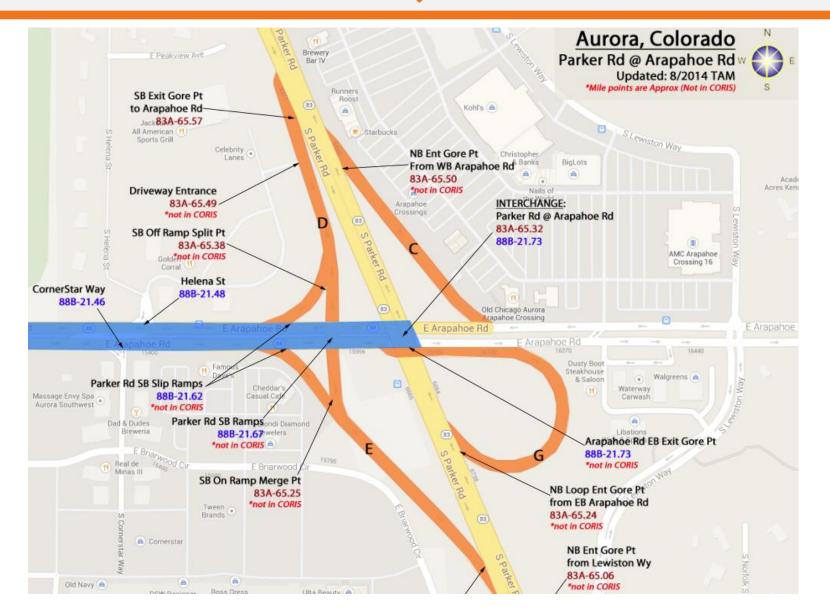




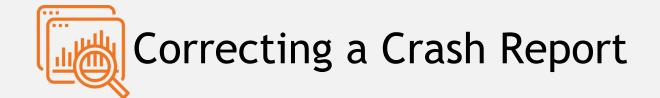
Save Mark Coded	Record Navigation: Next Uncoded >Next Previo	Project Records				
Form Type: DR3447	Crash Identifer: 286962	Record Status: Coded	Project Info	: 4/7/2023 - Arapahoe County -	(15/100) Last Update: 4/27/	2023 19:37
🐄 Crash Header	Case Number	Processing Status: Completed	Assigned N	lame: Alyssa Herrin	Version: 3	
🗭 Narrative	Location / Road Coding Case Number System Code	Rd_Number	Rd_Section / Mile Marker	City_Street / Ramp Code	Open RDF	Road Location 01. On Roadway
All involved	2. State Highway	▼ 083A	65.381	D		Road Description
A Traffic Unit 1	Location 1 Link PARKER RD SB OFF RAMP AT	Location 2	Swap	City	County	01. At Intersection TU-1 Direction
🛱 Traffic Unit 2	Latitude Select Point on M	lap		×		06. Southwest
Souther Crash Fields	39.59564 Search Box		7		· · · · · · · · · · · · · · · · · · ·	TU-2 Direction 06. Southwest
Add Motorist TU	Harmful Event Seque Map Satellite		Least the state	53		TU-3 Direction
Add Non-Motorist TU	First 07. Front to Rear	E Peakview A ^{ve}	Mart		•	TU-1 Movement
K Collapse	MHE 07. Front to Rear		c	S Lewiston Way		01. Going Straight 🔹
	Crash Type	S He				TU-2 Movement 03. Stopped in Traffic
	07. Rear-End					TU-3 Movement
	Narrative / Diagram	apahoe Rd		E Arapahoe Rd		Approach/ Overtaking Turn
	Narrative Q V2 was stopped at the		(8)		of traffic where it	03. Not Applicable 🔹
	would be safer to exch provided the license pl driving the vehicle tod stated no. While trying it several times. The da	Cornerstar Way		s Nor	ormation. Driver of V2 ANTHA admitted to it was suspended	





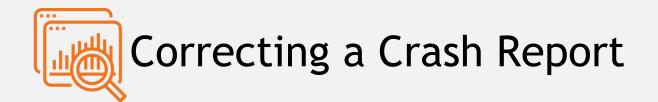






Save Mark Coded	Record Navigation: Next Uncoded >Next Previous	Project Records					
Form Type: DR3447	Crash Identifer: 296187	Record Status: New	Project Info:	4/7/2023 - Arapahoe County - ((15/100) Last Update: 4,	/17/2023 17:6	
🍋 Crash Header	Case Number:	Processing Status: Normalized	Assigned Na	ame: Alyssa Herrin	Version: 3		
	Location / Road Coding					Road Location	
💬 Narrative	Case Number System Code		Rd_Section / Mile Marker	City_Street / Ramp Code	Open RDF	01. On Roadway	•
🐣 All Involved	2. State Highway	▼ 88?	0?			Road Description	
🛱 Traffic Unit 1	Location 1 Link	Location 2	Swap	Ċ	County	01. At Intersection	•
	3200 E BELLEVIEW AVE AT			0210. CHERRY HILLS VIL V	10. ARAPAHOE	TU-1 Direction	
🛱 Traffic Unit 2	Latitude Longitude	Find on Map	Сору	Agency		01. North	•
Other Crash Fields	1			CHERRY HILLS VILLAGE PD (CH	VPD)	TU-2 Direction	
						07. West	•
Add Motorist TU	Harmful Event Sequence					TU-3 Direction	
Add Non-Motorist TU	First Second		Third	Fourth			•
	08. Front to Side 🔹	•		•		TU-1 Movement	
K Collapse	MHE					05. Making Left Turn	•
	08. Front to Side 🔹					TU-2 Movement	
	Crash Type Wild Anima	al				01. Going Straight	•
	_	•				TU-3 Movement	
	I This field is required.						•
	Negetice (Discourse)					Approach/ Overtaking Turn	
	Narrative / Diagram					03. Not Applicable	•
	Hundare						
						h	
	Open Diagram Download Diagram						





DR 3447 (10/02/20) NARRATIVE/DIAGRAM PAGE 2 OF 6 PAGES Case # Agency ORI Agency Name Cherry Hills Village Police Department **Describe Crash** ORIGINAL REPORT was eastbound, E. Belleview Ave. and turned left onto Glenmoor Drive. TU1 could not TU1 complete the turn safely and had to stop in the intersection due to other cars turning onto Glenmoor was westbound in lane number 1 of E. Belleview Ave, with the right-of-way. TU2 Drive. TU2 attempted to stop to avoid TU1 when the right front corner of TU2 struck the right rear quarter panel of TU1 in a front to side collision. 3200 E Belleview Ave, Greenwood Village, CO 80121 Suggest an edit on 3200 E Belleview Ave Add a missing place Add your business Add a label Photo

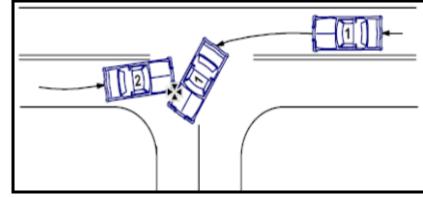




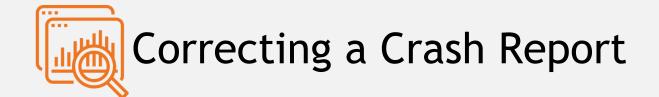


BROADSIDE ACCIDENTS

APPROACH TURN ACCIDENTS







Form Type: DR3447 Crash Identifer: 296187 Record Status: New Project Info: 4/7/2023 - Arapahoe County - (13/100) Last Update: 4/17/2023 17:6	
Crash Header Case Number: Processing Status: Normalized Assigned Name: Alyssa Herrin Version: 3	
	Location
P Narrative Case Number System Code Rd_Number Rd_Section / Mile Marker City_Street / Ramp Code Open RDF 01. On	On Roadway 🔻
All Involved 2. State Highway 🗸 088A 12.136	Description
Location 1 Link Location 2 City County 01. At 1	At Intersection 🔻
	Direction
Traffic Unit 2 Latitude Longitude Find on Map Copy Agency 03. East	East 🔹
	Direction
S Other Crash Fields 07. We	West 💌
Add Motorist TU Harmful Event Sequence	Direction
Add Non-Motorist TU	•
	Movement
Collapse MHE 05. Mai	Making Left Turn 🔹
08. Front to Side 🔹	Movement
Crash Type Wild Animal 01. Goi	Going Straight 🔹
09. Approach Turn	Movement
	*
Approac	oach/ Overtaking Turn
Narrative 01. App	Approach Turn 🔹

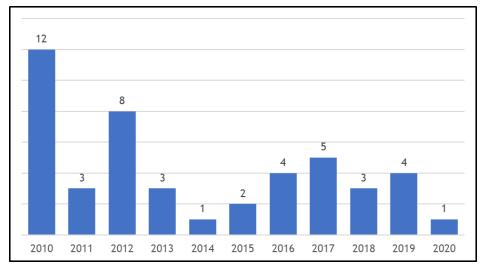
Real-world Application: 14th Ave and Lamar St, Lakewood, CO

2013





Crashes by Year



Broadside Collisions 2010-2014: 24 Broadside Collisions 2015-2020: 9

Injury Crashes 2010-2014: 14 Injury Crashes 2015-2020: 6







COLORADO Department of Transportation

Questions Alyssa Herrin - Alyssa.herrin@state.co.us