

engineers + planners + land surveyors

# **Appendix B - Crash Data**

	Quick	Analysis Tool Report -2021	
Crash Severity	281	Injury Status Summary	104
Fatal Crash	2	Fatalities	2
Suspected Serious Injury Crash	3	Suspected serious/incapacitating	3
Suspected Minor Injury Crash	14	Suspected minor/non-incapacitating	18
Possible/Unknown Injury Crash	61	Possible (complaint of pain/injury)	80
Property Damage Only	201	Unknown	1
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	1,626,263.00	Fatalities/Fatal Crash:	1.00
Average (per crash dollars):	5,787.41	Fatalities/Crash:	0.01
Total Vehicles:	569.00	Injuries/Crash:	0.36
Average (per crash):	2.02	Major Injuries/Crash:	0.01
Total Occupants:	821.00	Minor Injuries/Crash:	0.06
Average (per crash):	2.92	Possible/Unknown Injuries/Crash:	0.28
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Major Cause			269
Animal	13	Ran traffic signal	21
Ran stop sign	2	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	5	FTYROW: Making right turn on red signal	6
FTYROW: From stop sign	10	FTYROW: From yield sign	1
FTYROW: Making left turn	21	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	1
FTYROW: Other	7	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	1
Aggressive driving/road rage	0	Driving too fast for conditions	3
Exceeded authorized speed	0	Improper or erratic lane changing	12
Operating vehicle in an reckless, erratic, ca	4	Followed too close	55
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	4
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	2
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	2
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	3
Driver Distraction: Inattentive/lost in thou	5	Driver Distraction: Other interior distracti	1
Driver Distraction: Exterior distraction	3	Ran off road - right	2
Ran off road - straight	1	Ran off road - left	1
Lost control	18	Swerving/Evasive Action	3
Over correcting/over steering	0	Failed to keep in proper lane	1
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	2
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	1	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	48
Unknown	8	Not reported	0
Other: No improper action	2		



# Time of Day/Day of Week

	-													
Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	1	0	4	2	7	2	1	2	2	0	21
Monday	0	0	0	1	2	8	7	9	8	4	1	2	0	42
Tuesday	0	0	1	0	1	11	5	7	6	6	0	0	0	37
Wednesday	1	0	2	0	1	4	9	7	1	1	4	3	0	33
Thursday	0	0	0	1	6	7	9	8	13	4	3	1	0	52
Friday	0	0	1	3	3	5	12	8	11	8	1	1	0	53
Saturday	0	0	0	0	1	6	13	8	8	5	1	1	0	43
Total	1	0	4	6	14	45	57	54	49	29	12	10	0	281

Manner of Crash Collision	281	Surface Conditions	281
Non-collision (single vehicle)	22	Dry	205
Head-on (front to front)	4	Wet	46
Rear-end (front to rear)	137	Ice/frost	6
Angle, oncoming left turn	15	Snow	12
Broadside (front to side)	48	Slush	3
Sideswipe, same direction	38	Mud, dirt	0
Sideswipe, opposite direction	5	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	1	Oil	0
Not reported	6	Gravel	0
Other	4	Not reported	8
Unknown	1	Other	1
		Unknown	0

Fixed Object Struck			569
Bridge overhead structure	1	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	1	Embankment	0
Ground	1	Culvert/pipe opening	0
Guardrail - face	1	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	1	Traffic sign support	3
Traffic signal support	1	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	1
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	559



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Driver Age/Driver Gender								
Driver Age - 5 year			Not					
Bins	Female	Male		Unknown	Total			
< 14	0	0	0	0	0			
= 14	0	0	0	0	0			
= 15	0	1	0	0	1			
= 16	6	3	0	0	9			
= 17	7	3	0	0	10			
= 18	9	9	0	0	18			
= 19	9	5	0	0	14			
= 20	8	8	0	0	16			
>= 21 and <= 24	14	20	1	0	35			
>= 25 and <= 29	22	18	2	0	42			
>= 30 and <= 34	25	24	0	0	49			
>= 35 and <= 39	21	22	0	0	43			
>= 40 and <= 44	11	24	1	0	36			
>= 45 and <= 49	14	8	1	0	23			
>= 50 and <= 54	22	20	1	0	43			
>= 55 and <= 59	24	25	0	0	49			
>= 60 and <= 64	31	19	0	0	50			
>= 65 and <= 69	23	18	0	0	41			
>= 70 and <= 74	20	15	0	0	35			
>= 75 and <= 79	6	10	0	0	16			
>= 80 and <= 84	10	6	0	0	16			
>= 85 and <= 89	3	9	0	0	12			
>= 90 and <= 94	1	4	0	0	5			
>= 95	0	0	0	0	0			
Not reported	0	0	0	0	0			
Unknown	0	0	0	0	0			
Total	286	271	6	0	563			

Drug/Alcohol Related	281
Drug	0
Alcohol (< Statutory)	1
Alcohol (Statutory)	3
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	3
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	274

Alcohol Test Given	569
None	553
Blood	1
Urine	0
Breath	4
Vitreous	0
Refused	3
Not reported	8

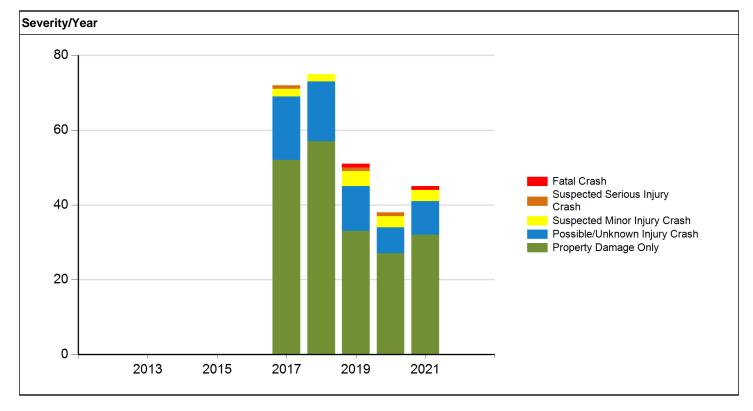
Drug Test Given	569
None	561
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	8

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

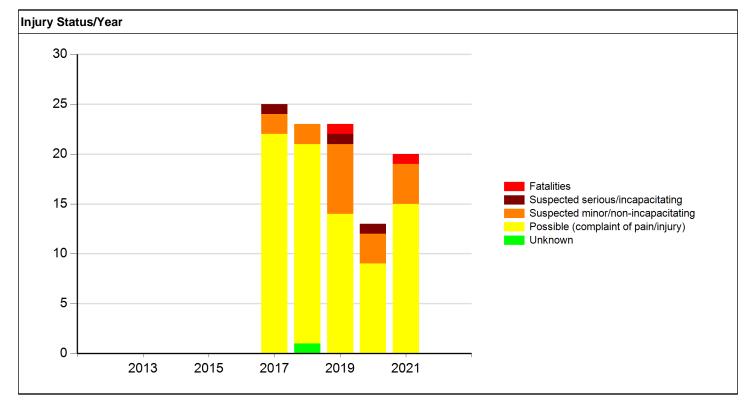
orasii Gevenity -	Annua					
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	1	2	17	52	72
2018	0	0	2	16	57	75
2019	1	1	4	12	33	51
2020	0	1	3	7	27	38
2021	1	0	3	9	32	45
2022	0	0	0	0	0	0
Total	2	3	14	61	201	281





# Injury Status - Annual

Injury Status - A	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	1	2	22	0	25
2018	0	0	2	20	1	23
2019	1	1	7	14	0	23
2020	0	1	3	9	0	13
2021	1	0	4	15	0	20
2022	0	0	0	0	0	0
Total	2	3	18	80	1	104





#### Meeting the following criteria

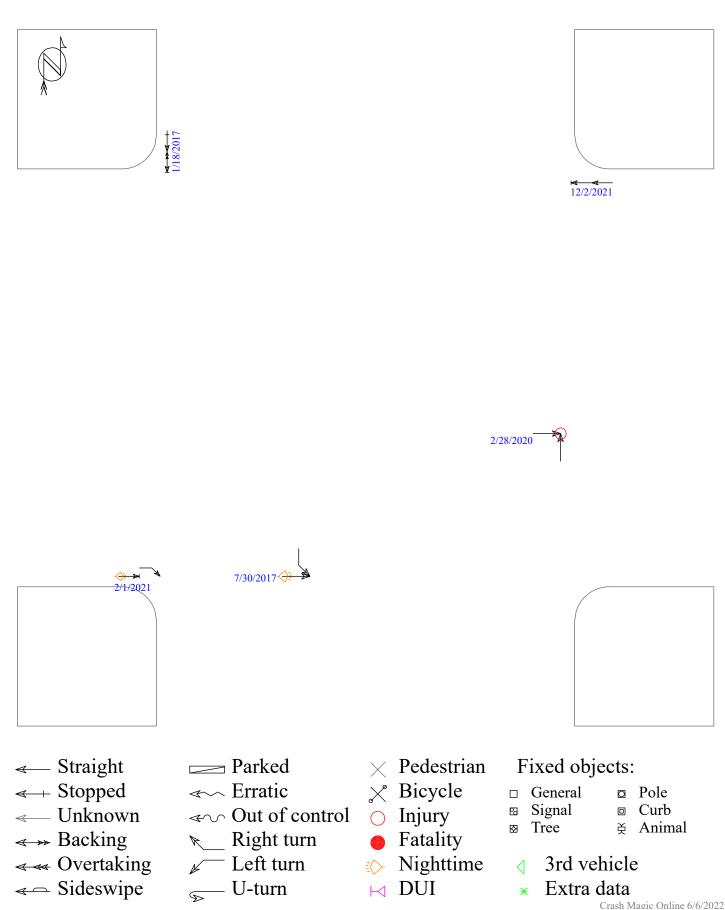
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: None

#### **Analyst Information**

IA 122 Corridor in Mason City From Lark Avenue to Winnebago/Cerro Gordo Way 2017-2021 Crash History Used Line selection tool applied to roadway centerline with 75-foot buffer. The buffer area was "tight" to reflect short functional areas on the sideroad approaches due to closely-spaced frontage road connections and sideroad accesses typical in the corridor.

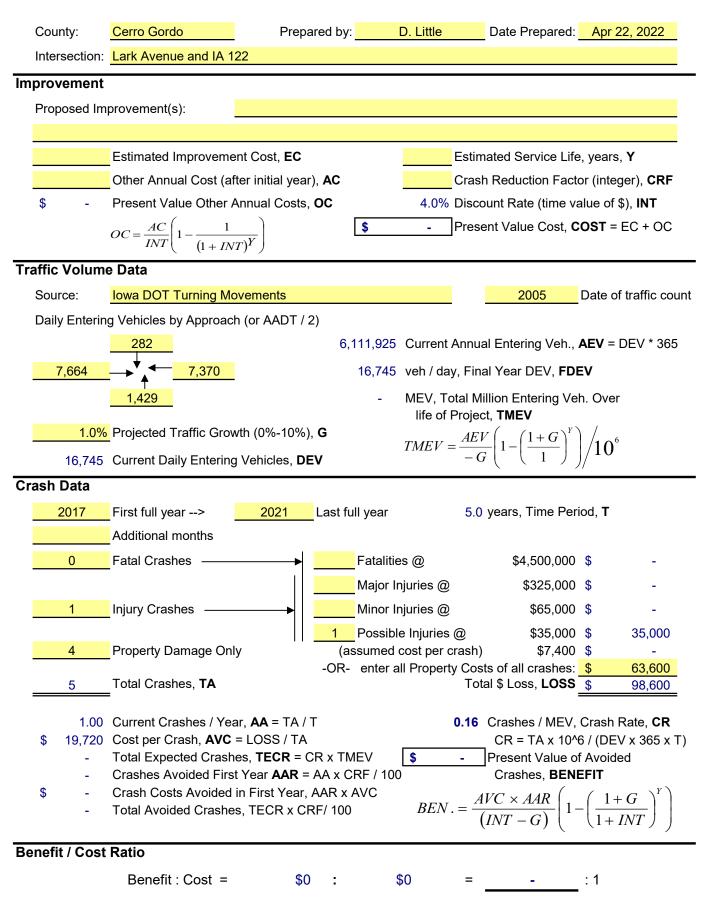
# Lark Avenue and IA 122, 2017-2021 Collision Diagram

#### 5 Crashes



# Intersection or Spot Benefit / Cost Safety Analysis

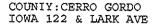
Iowa DOT Office of Traffic & Safety

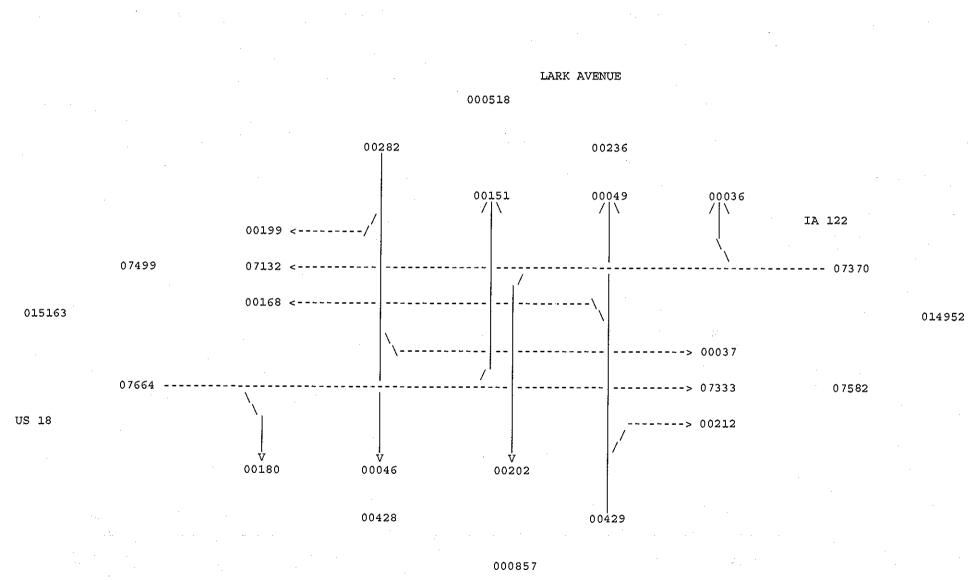


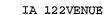
DAIE: 10-14-2010

#### IOWA DEPARIMENT OF TRANSPORIAIION VEHICULAR TURNING MOVEMENTS ANNUAL AVERAGE DAILY TRAFFIC - YEAR 2005 IN MASON CITY

#### STATION NO. 17 32 7381 0991







ODOT	Quick	Analysis Tool Report -2021	
Crash Severity	5	Injury Status Summary	1
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	0
Suspected Minor Injury Crash	0	Suspected minor/non-incapacitating	0
Possible/Unknown Injury Crash	1	Possible (complaint of pain/injury)	1
Property Damage Only	4	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	57,100.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	11,420.00	Fatalities/Crash:	0.00
Total Vehicles:	10.00	Injuries/Crash:	0.20
Average (per crash):	2.00	Major Injuries/Crash:	0.00
Total Occupants:	12.00	Minor Injuries/Crash:	0.00
Average (per crash):	2.40	Possible/Unknown Injuries/Crash:	0.20
Garden in an and the second second	and the second s		



Major Cause			5
Animal	0	Ran traffic signal	0
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	1	FTYROW: From yield sign	0
FTYROW: Making left turn	0	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	0	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	0
Operating vehicle in an reckless, erratic, ca	0	Followed too close	3
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	0	Swerving/Evasive Action	1
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	0
Unknown	0	Not reported	0
Other: No improper action	0		



## Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Monday	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Tuesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Thursday	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Friday	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Saturday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	1	0	2	1	0	0	5

Manner of Crash Collision	5	Surface Conditions	5
Non-collision (single vehicle)	0	Dry	4
Head-on (front to front)	0	Wet	0
Rear-end (front to rear)	3	Ice/frost	0
Angle, oncoming left turn	1	Snow	0
Broadside (front to side)	1	Slush	0
Sideswipe, same direction	0	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	1
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			10
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	1	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	9



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Driver Age/Driver Gender									
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total				
< 14	0	0	0	0	0				
= 14	0	0	0	0	0				
= 15	0	0	0	0	0				
= 16	0	1	0	0	1				
= 17	0	0	0	0	0				
= 18	0	0	0	0	0				
= 19	1	0	0	0	1				
= 20	0	0	0	0	0				
>= 21 and <= 24	0	0	0	0	0				
>= 25 and <= 29	0	0	0	0	0				
>= 30 and <= 34	0	3	0	0	3				
>= 35 and <= 39	0	0	0	0	0				
>= 40 and <= 44	0	1	0	0	1				
>= 45 and <= 49	0	0	0	0	0				
>= 50 and <= 54	0	2	0	0	2				
>= 55 and <= 59	0	1	0	0	1				
>= 60 and <= 64	0	0	0	0	0				
>= 65 and <= 69	0	0	0	0	0				
>= 70 and <= 74	1	0	0	0	1				
>= 75 and <= 79	0	0	0	0	0				
>= 80 and <= 84	0	0	0	0	0				
>= 85 and <= 89	0	0	0	0	0				
>= 90 and <= 94	0	0	0	0	0				
>= 95	0	0	0	0	0				
Not reported	0	0	0	0	0				
Unknown	0	0	0	0	0				
Total	2	8	0	0	10				

Drug/Alcohol Related	5
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	5

Alcohol Test Given	10
None	10
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

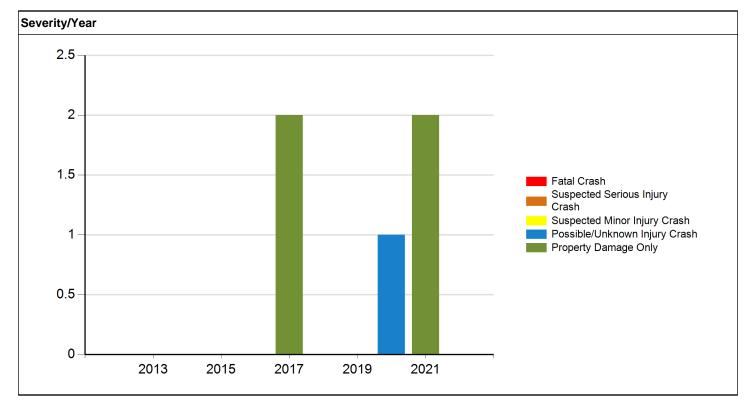
Drug Test Given	10
None	10
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

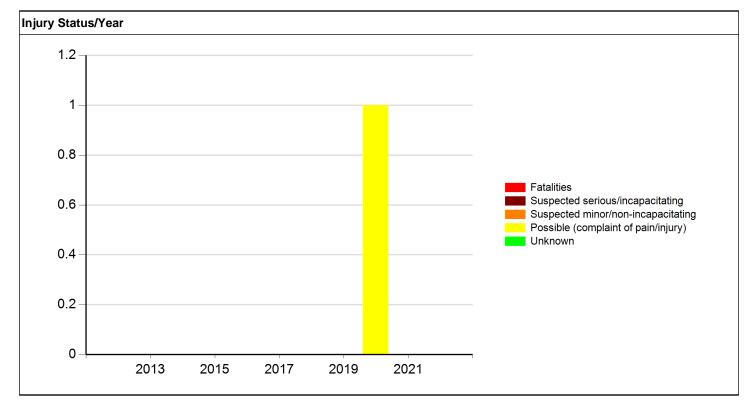
orash ocverity	Annadi					
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	2	2
2018	0	0	0	0	0	0
2019	0	0	0	0	0	0
2020	0	0	0	1	0	1
2021	0	0	0	0	2	2
2022	0	0	0	0	0	0
Total	0	0	0	1	4	5





# Injury Status - Annual

Injury Status - Al	inuai					_
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	0	0	0	0	0	0
2020	0	0	0	1	0	1
2021	0	0	0	0	0	0
2022	0	0	0	0	0	0
Total	0	0	0	1	0	1





#### Meeting the following criteria

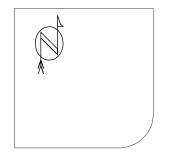
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: Non Animal-related

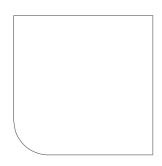
#### Analyst Information

Lark Avenue and IA 122 in Mason City 2017-2021 Excluding animal-related crashes

# Senco Equip. Access, 2017-2021 Collision Diagram

#### 1 Crashes







- ← Straight
- ←+ Stopped
- <--- Unknown
- *«→* Backing
- « « Overtaking
- $\leftarrow$  Sideswipe
- Parked
- <--- Erratic
- $\ll 0$  Out of control
- ▶ Right turn
- ⊮ Left turn
- 🗩 U-turn

- imes Pedestrian
- × Bicycle
- O Injury
- Fatality
- Nighttime
- H DUI

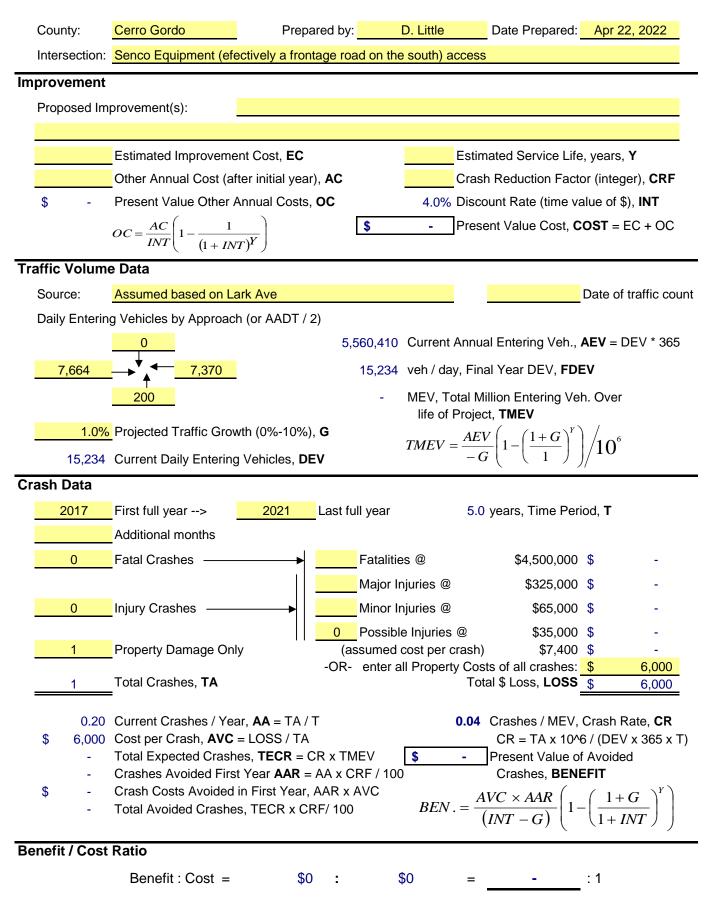
- Fixed objects:
- □ General☑ Signal

⊠ Tree

- PoleCurb
- 关 Animal
- 3rd vehicle
  Extra data
  - Crash Magic Online 6/6/2022

# Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



DOT	Quick	Analysis Tool Report ′-2021			
Crash Severity	1	Injury Status Summary			
Fatal Crash	0	Fatalities	C		
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	C		
Suspected Minor Injury Crash	0	Suspected minor/non-incapacitating	C		
Possible/Unknown Injury Crash	0	Possible (complaint of pain/injury)	(		
Property Damage Only	1	Unknown	(		
Property/Vehicles/Occupants		Average Severity			
Property Damage Total (dollars):	6,000.00	Fatalities/Fatal Crash:	0.00		
Average (per crash dollars):	6,000.00	Fatalities/Crash:	0.00		
Total Vehicles:	2.00	Injuries/Crash:	0.00		
Average (per crash):	2.00	Major Injuries/Crash:	0.00		
Total Occupants:	2.00	Minor Injuries/Crash:	0.00		
Average (per crash):	2.00	Possible/Unknown Injuries/Crash:	0.00		



Major Cause			1
Animal	0	Ran traffic signal	0
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	0	FTYROW: From yield sign	0
FTYROW: Making left turn	0	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	0	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	0
Operating vehicle in an reckless, erratic, ca	0	Followed too close	0
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	1
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	0	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	0
Unknown	0	Not reported	0
Other: No improper action	0		



## Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thursday	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Friday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	1	0	0	0	0	0	1

Manner of Crash Collision	1	Surface Conditions	1
Non-collision (single vehicle)	0	Dry	1
Head-on (front to front)	0	Wet	0
Rear-end (front to rear)	0	Ice/frost	0
Angle, oncoming left turn	0	Snow	0
Broadside (front to side)	0	Slush	0
Sideswipe, same direction	1	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			2
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	2



Driver Age/Driver Gender									
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Tota				
< 14	0	0	0	0	C				
= 14	0	0	0	0	C				
= 15	0	0	0	0	C				
= 16	0	0	0	0	(				
= 17	0	0	0	0	(				
= 18	0	0	0	0	C				
= 19	0	0	0	0	(				
= 20	0	0	0	0	(				
>= 21 and <= 24	0	0	0	0	(				
>= 25 and <= 29	0	0	0	0	(				
>= 30 and <= 34	0	0	0	0	(				
>= 35 and <= 39	0	0	0	0	(				
>= 40 and <= 44	1	0	0	0					
>= 45 and <= 49	0	0	0	0	(				
>= 50 and <= 54	0	0	0	0	(				
>= 55 and <= 59	0	0	0	0	(				
>= 60 and <= 64	0	0	0	0	(				
>= 65 and <= 69	0	0	0	0	(				
>= 70 and <= 74	0	1	0	0					
>= 75 and <= 79	0	0	0	0	(				
>= 80 and <= 84	0	0	0	0	(				
>= 85 and <= 89	0	0	0	0	(				
>= 90 and <= 94	0	0	0	0	(				
>= 95	0	0	0	0	(				
Not reported	0	0	0	0	(				
Unknown	0	0	0	0	(				
Total	1	1	0	0	2				

Drug/Alcohol Related	1
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	1

Alcohol Test Given	2
None	2
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

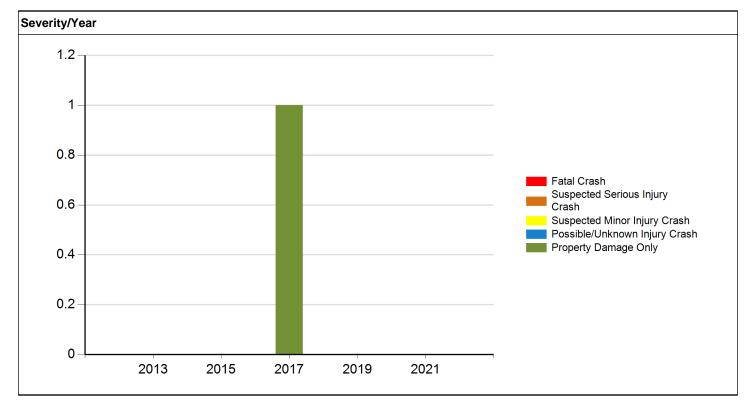
Drug Test Given	2
None	2
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

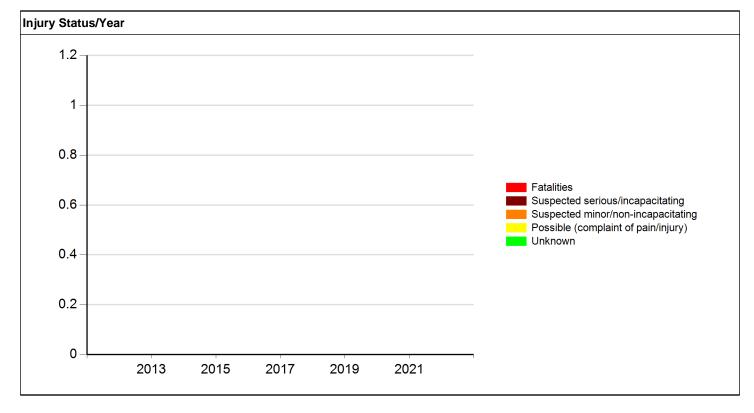
orash ocverny						
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	1	1
2018	0	0	0	0	0	0
2019	0	0	0	0	0	0
2020	0	0	0	0	0	0
2021	0	0	0	0	0	0
2022	0	0	0	0	0	0
Total	0	0	0	0	1	1





# Injury Status - Annual

Injury Status - A	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	0	0	0	0	0	0
2020	0	0	0	0	0	0
2021	0	0	0	0	0	0
2022	0	0	0	0	0	0
Total	0	0	0	0	0	0





#### Meeting the following criteria

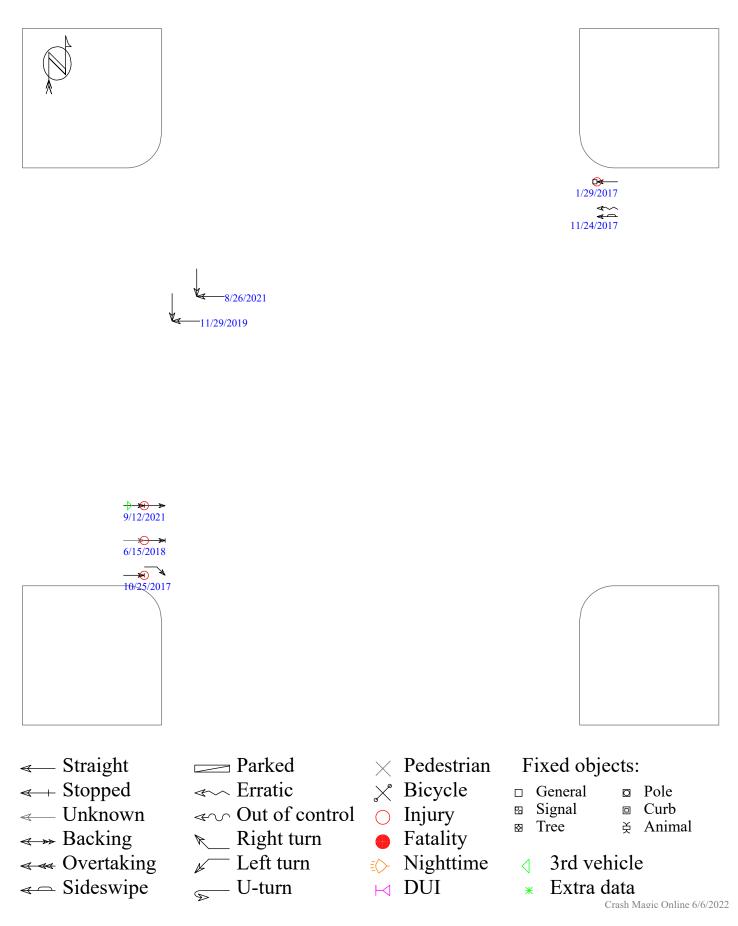
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: Non Animal-related

#### Analyst Information

Senco Equip. Access, 2017-2021 Excluding Animal-related

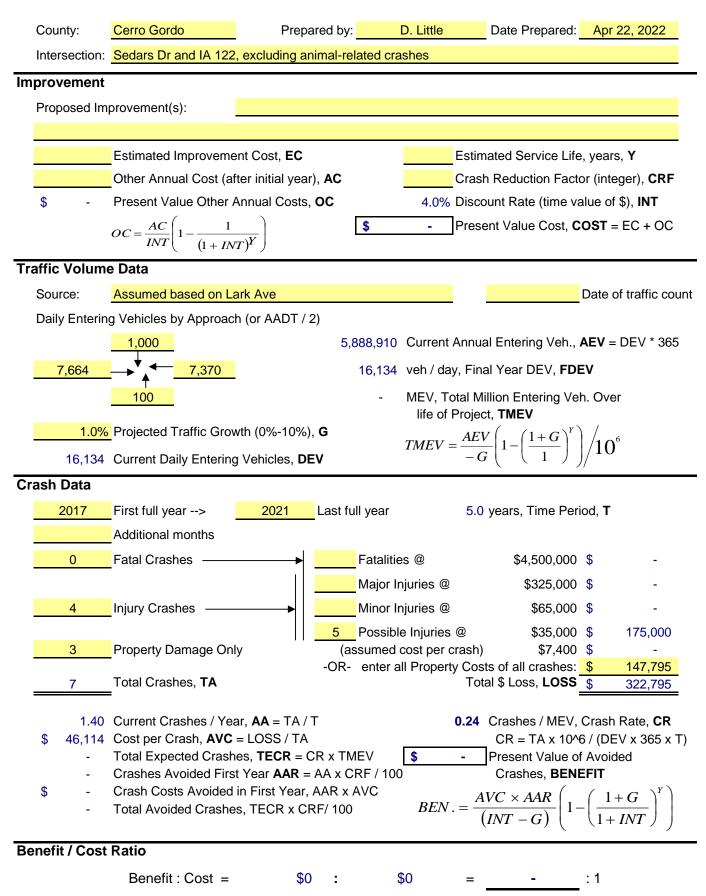
# Sedars Drive, 2017-2021 Collision Diagram

#### 7 Crashes



# Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



	Quick	Analysis Tool Report -2021	
Crash Severity	7	Injury Status Summary	5
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	0
Suspected Minor Injury Crash	0	Suspected minor/non-incapacitating	0
Possible/Unknown Injury Crash	4	Possible (complaint of pain/injury)	5
Property Damage Only	3	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	147,795.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	21,113.57	Fatalities/Crash:	0.00
Total Vehicles:	15.00	Injuries/Crash:	0.71
Average (per crash):	2.14	Major Injuries/Crash:	0.00
Total Occupants:	20.00	Minor Injuries/Crash:	0.00
Average (per crash):	2.86	Possible/Unknown Injuries/Crash:	0.71
	4 4		-



Major Cause			7
Animal	0	Ran traffic signal	0
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	2	FTYROW: From yield sign	0
FTYROW: Making left turn	0	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	0	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	1
Operating vehicle in an reckless, erratic, ca	0	Followed too close	1
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	1	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	1	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	1
Unknown	0	Not reported	0
Other: No improper action	0		



## Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Monday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Thursday	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Friday	0	0	0	0	0	0	2	0	0	1	0	0	0	3
Saturday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	3	2	0	1	0	0	0	7

Manner of Crash Collision	7	Surface Conditions	7
Non-collision (single vehicle)	1	Dry	4
Head-on (front to front)	0	Wet	3
Rear-end (front to rear)	3	Ice/frost	0
Angle, oncoming left turn	0	Snow	0
Broadside (front to side)	2	Slush	0
Sideswipe, same direction	1	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			15
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	1	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	14



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Driver Age/Driver Gender								
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total			
< 14	0	0	. 0	0	0			
= 14	0	0	0	0	0			
= 15	0	0	0	0	0			
= 16	0	0	0	0	0			
= 17	0	0	0	0	0			
= 18	1	0	0	0	1			
= 19	0	0	0	0	0			
= 20	1	0	0	0	1			
>= 21 and <= 24	0	0	0	0	0			
>= 25 and <= 29	1	1	0	0	2			
>= 30 and <= 34	0	1	0	0	1			
>= 35 and <= 39	0	0	0	0	0			
>= 40 and <= 44	0	1	0	0	1			
>= 45 and <= 49	1	0	0	0	1			
>= 50 and <= 54	0	0	0	0	0			
>= 55 and <= 59	0	2	0	0	2			
>= 60 and <= 64	0	1	0	0	1			
>= 65 and <= 69	1	0	0	0	1			
>= 70 and <= 74	0	1	0	0	1			
>= 75 and <= 79	0	0	0	0	0			
>= 80 and <= 84	1	1	0	0	2			
>= 85 and <= 89	0	1	0	0	1			
>= 90 and <= 94	0	0	0	0	0			
>= 95	0	0	0	0	0			
Not reported	0	0	0	0	0			
Unknown	0	0	0	0	0			
Total	6	9	0	0	15			

Drug/Alcohol Related	7
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	7

Alcohol Test Given	15
None	15
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

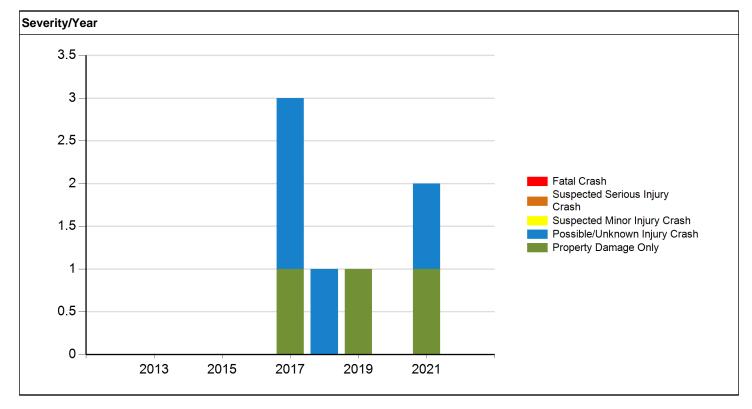
Drug Test Given	15
None	15
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

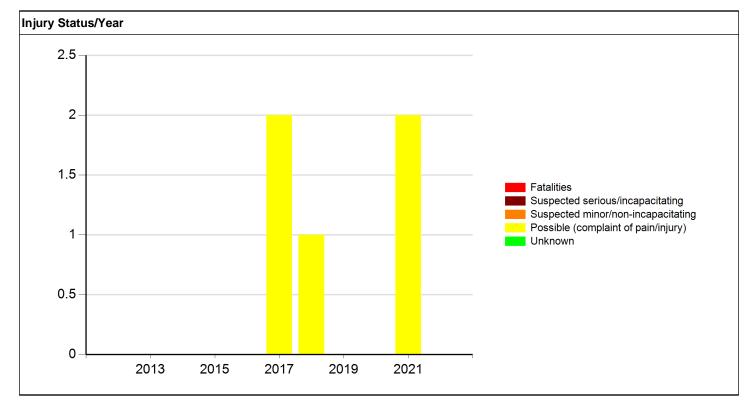
orash ocverny						
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	2	1	3
2018	0	0	0	1	0	1
2019	0	0	0	0	1	1
2020	0	0	0	0	0	0
2021	0	0	0	1	1	2
2022	0	0	0	0	0	0
Total	0	0	0	4	3	7





# Injury Status - Annual

Injury Status - A	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	2	0	2
2018	0	0	0	1	0	1
2019	0	0	0	0	0	0
2020	0	0	0	0	0	0
2021	0	0	0	2	0	2
2022	0	0	0	0	0	0
Total	0	0	0	5	0	5





#### Meeting the following criteria

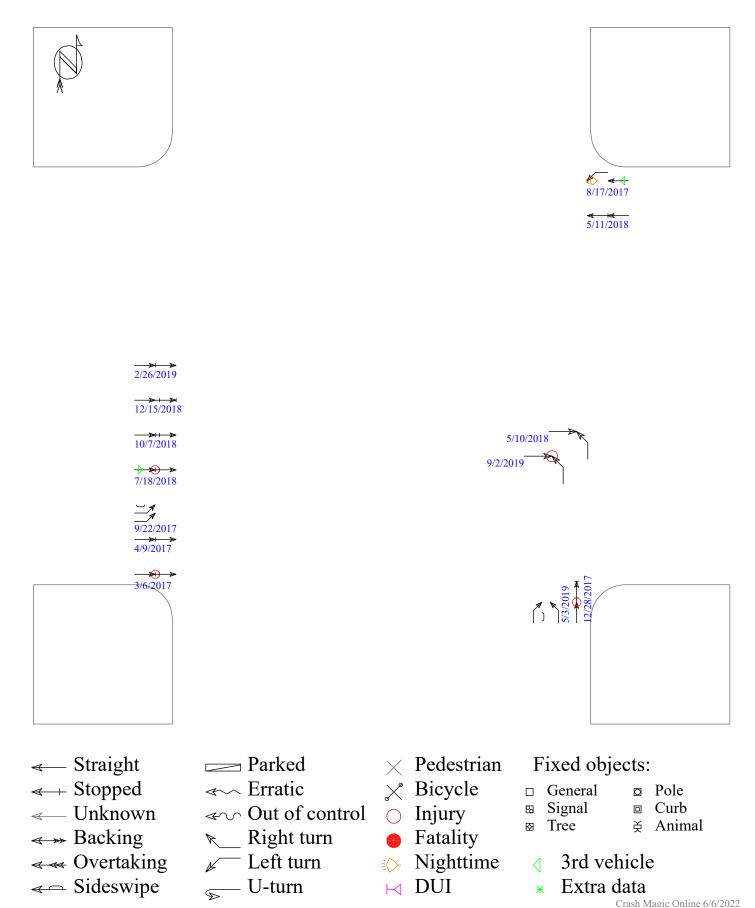
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: Non Animal-related

#### Analyst Information

Sedars Drive and IA 122 in Mason City 2017-2021 Excluding Animal-Related Crashes

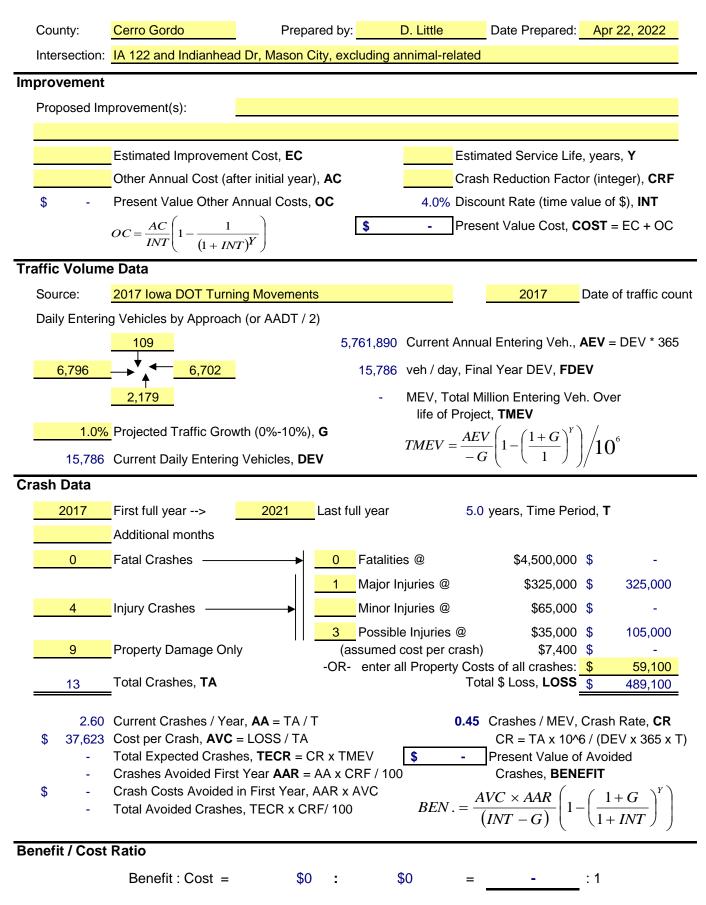
# Indianhead Drive, 2017-2021 Collision Diagram

#### 13 Crashes



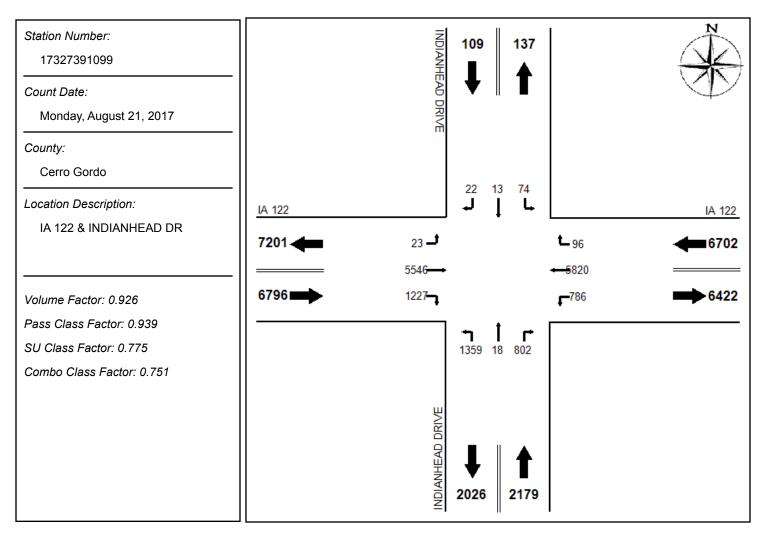
## Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



## Iowa Department of Transportation

Turning Movement Traffic Count Summary Annualized Daily Traffic For All Vehicles



#### **Raw Data-All Vehicles:**

[	N Leg			E Leg			S Leg			W Leg		
	L	Т	R	L	Т	R	L	Т	R	L	Т	R
00:00	1	0	0	0	29	1	8	0	2	1	26	3
01:00	1	0	0	2	21	0	3	0	0	1	19	1
02:00	0	0	0	0	15	0	3	0	0	0	17	3
03:00	0	0	0	1	19	0	1	0	0	0	21	1
04:00	1	0	0	0	51	2	4	0	1	0	42	7
05:00	1	0	0	5	108	0	4	0	1	0	126	8
06:00		1	1	2	213	2	12	0	4	1	220	31
07:00	8	0	4	8	318	2	32	1	7	0	458	53
08:00	3	0	0	22	296	6	30	0	15	0	361	53
09:00	5	2	3	47	296	3	57	0	33	2	364	66
10:00		0	1	57	384	3	90	4	39	3	392	96
11:00	7	0	2	76	434	4	97	0	76	2	407	100
12:00	4	1	3	86	450	6	99	1	105	2	463	117
13:00	6	2	1	67	481	3	109	3	75	0	456	106
14:00		0	1	80	447	2	124	4	71	0	413	116
15:00	3	2	1	89	527	5	144	1	99	3	443	118
16:00	4	1	0	87	591	10	150	1	70	4	461	128
17:00	8	2	1	62	538	6	152	1	79	1	451	99
18:00	6	1	2	67	314	12	91	2	65	2	263	76

COMA	Iowa Crash A Quick 2017	Analysis Tool Report -2021	
Crash Severity	13	Injury Status Summary	4
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	1	Suspected serious/incapacitating	1
Suspected Minor Injury Crash	0	Suspected minor/non-incapacitating	0
Possible/Unknown Injury Crash	3	Possible (complaint of pain/injury)	3
Property Damage Only	9	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	59,100.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	4,546.15	Fatalities/Crash:	0.00
Total Vehicles:	28.00	Injuries/Crash:	0.31
Average (per crash):	2.15	Major Injuries/Crash:	0.08
Total Occupants:	47.00	Minor Injuries/Crash:	0.00
Average (per crash):	3.62	Possible/Unknown Injuries/Crash:	0.23



Major Cause			13
Animal	0	Ran traffic signal	2
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	1	FTYROW: From yield sign	0
FTYROW: Making left turn	0	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	0	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	1
Exceeded authorized speed	0	Improper or erratic lane changing	0
Operating vehicle in an reckless, erratic, ca	0	Followed too close	3
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	1
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	1	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	1	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	1	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	2
Unknown	0	Not reported	0
Other: No improper action	0		



### Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	1	1	0	0	0	0	0	0	2
Monday	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Tuesday	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Wednesday	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Thursday	0	0	0	0	1	0	1	0	0	0	1	0	0	3
Friday	0	0	0	0	0	0	0	1	1	1	0	0	0	3
Saturday	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	0	0	0	0	1	2	3	3	2	1	1	0	0	13

Manner of Crash Collision	13	Surface Conditions	13
Non-collision (single vehicle)	0	Dry	10
Head-on (front to front)	0	Wet	1
Rear-end (front to rear)	9	Ice/frost	0
Angle, oncoming left turn	0	Snow	2
Broadside (front to side)	2	Slush	0
Sideswipe, same direction	2	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			28
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	28



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Driver Age/Driver Gender								
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total			
< 14	0	0	0	0	0			
= 14	0	0	0	0	0			
= 15	0	1	0	0	1			
= 16	0	0	0	0	0			
= 17	0	0	0	0	0			
= 18	0	3	0	0	3			
= 19	1	0	0	0	1			
= 20	0	0	0	0	0			
>= 21 and <= 24	0	1	0	0	1			
>= 25 and <= 29	0	0	0	0	0			
>= 30 and <= 34	2	0	0	0	2			
>= 35 and <= 39	0	0	0	0	0			
>= 40 and <= 44	0	2	0	0	2			
>= 45 and <= 49	1	0	0	0	1			
>= 50 and <= 54	1	2	0	0	3			
>= 55 and <= 59	0	2	0	0	2			
>= 60 and <= 64	4	3	0	0	7			
>= 65 and <= 69	3	0	0	0	3			
>= 70 and <= 74	0	0	0	0	0			
>= 75 and <= 79	0	2	0	0	2			
>= 80 and <= 84	0	0	0	0	0			
>= 85 and <= 89	0	0	0	0	0			
>= 90 and <= 94	0	0	0	0	0			
>= 95	0	0	0	0	0			
Not reported	0	0	0	0	0			
Unknown	0	0	0	0	0			
Total	12	16	0	0	28			

Drug/Alcohol Related	13
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	13

Alcohol Test Given	28
None	28
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

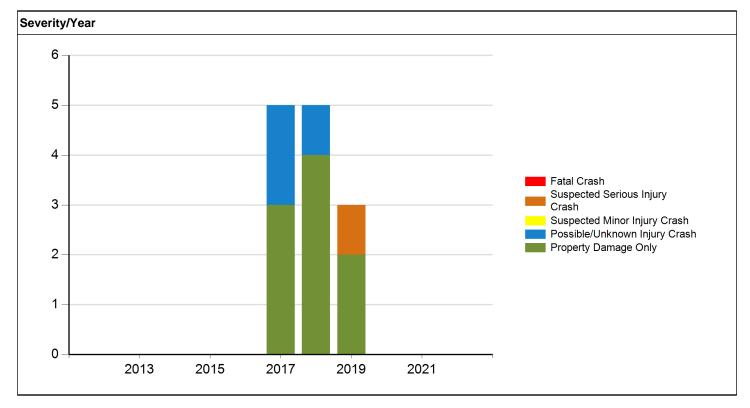
Drug Test Given	28
None	28
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



## Crash Severity - Annual

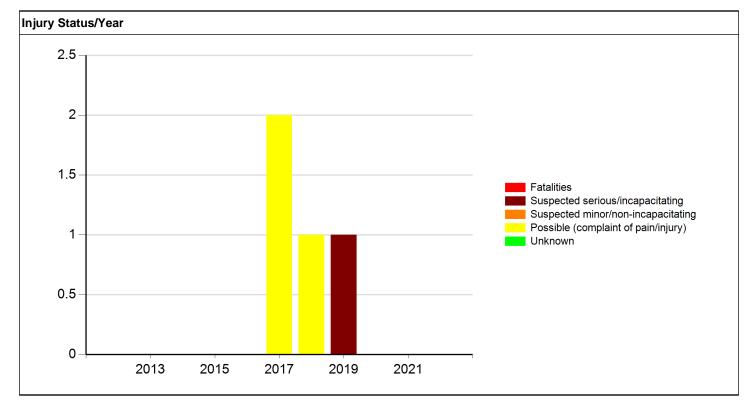
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	2	3	5
2018	0	0	0	1	4	5
2019	0	1	0	0	2	3
2020	0	0	0	0	0	0
2021	0	0	0	0	0	0
2022	0	0	0	0	0	0
Total	0	1	0	3	9	13





### Injury Status - Annual

Injury Status - Al	nnuai					_
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	2	0	2
2018	0	0	0	1	0	1
2019	0	1	0	0	0	1
2020	0	0	0	0	0	0
2021	0	0	0	0	0	0
2022	0	0	0	0	0	0
Total	0	1	0	3	0	4





#### Meeting the following criteria

Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: Non Animal-related

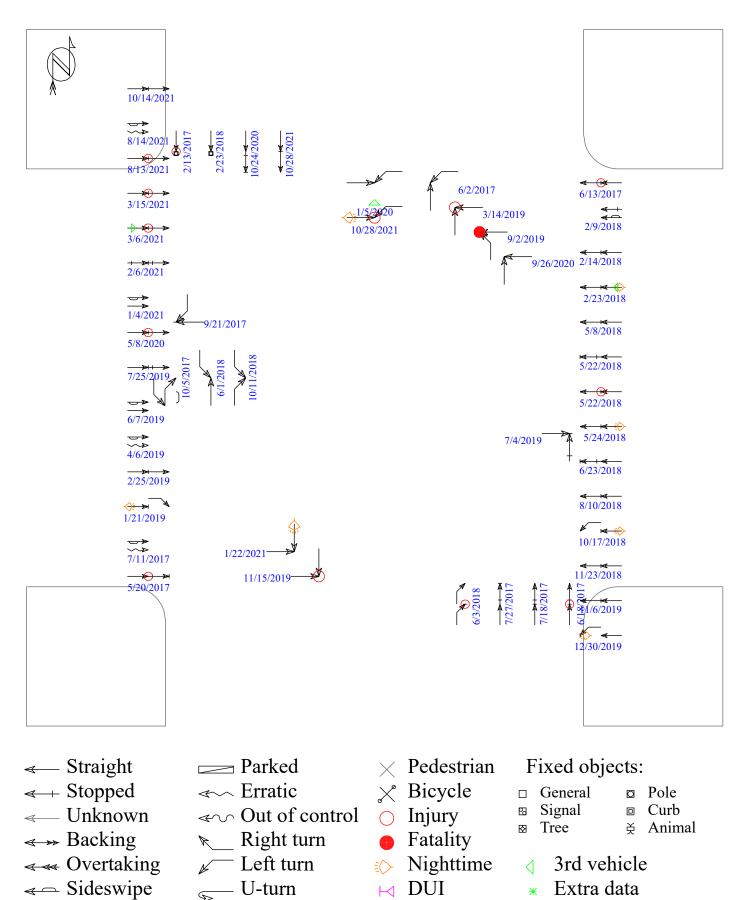
#### Analyst Information

Indianhead Drive and IA 122 in Mason City 2017-2021 Excluding animal-related

# Eisenhower Avenue and IA 122, 2017-2021 Collision Diagram

#### 50 Crashes

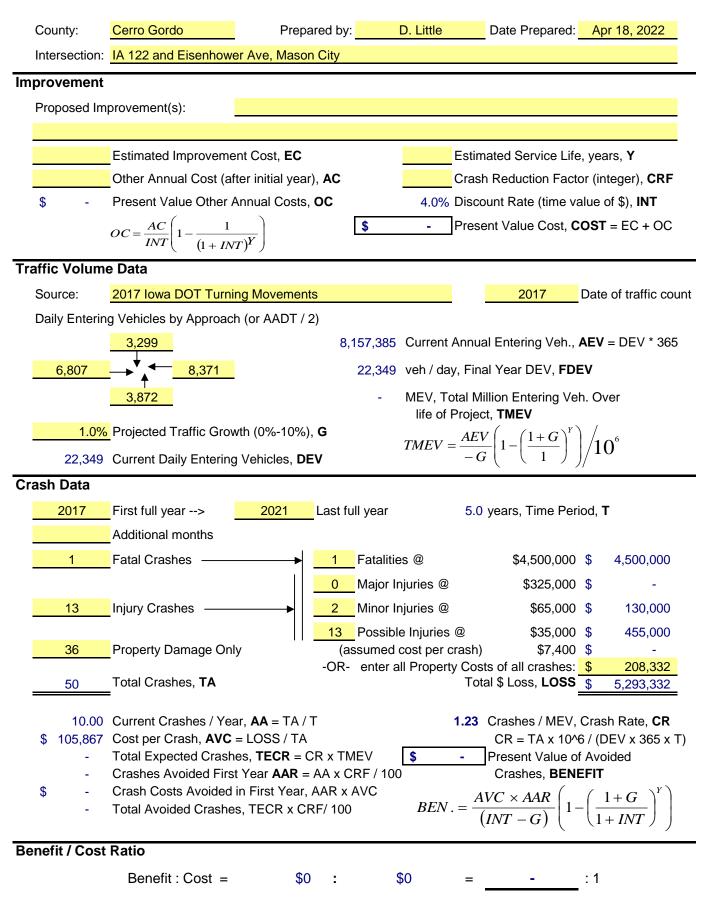
Clear



Crash Magic Online 4/22/2022

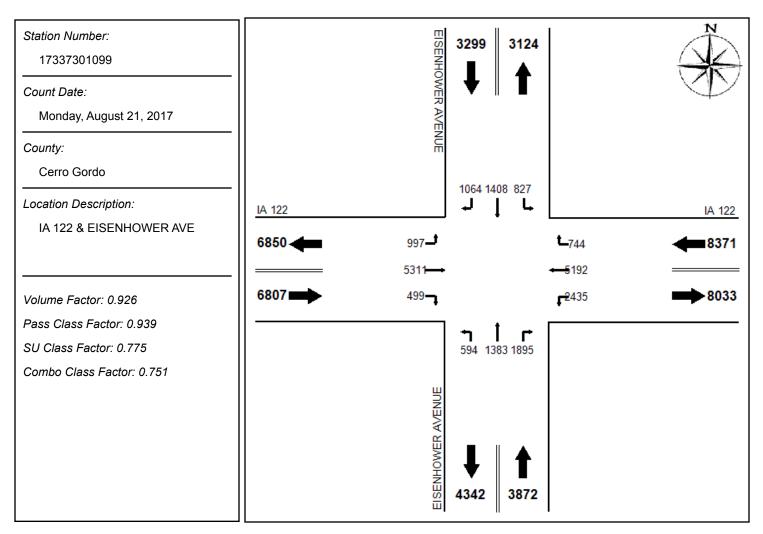
## Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



## Iowa Department of Transportation

Turning Movement Traffic Count Summary Annualized Daily Traffic For All Vehicles



#### **Raw Data-All Vehicles:**

	N Leg			E Leg			S Leg			W Leg		
	L	Т	R	L	Т	R	L	Т	R	L	Т	R
00:00	3	7	6	10	21	0	2	11	13	10	18	2
01:00	1	2	4	8	14	2	2	3	16	3	14	3
02:00	1	3	1	3	11	2	3	4	5	1	15	3
03:00	0	8	2	6	16	0	2	8	4	1	15	5
04:00	0	29	13	9	36	2	3	17	8	9	23	9
05:00	7	29	41	18	64	13	8	23	7	29	78	15
06:00	12	58	70	35	121	12	11	33	23	40	146	21
07:00	40	77	79	43	192	41	30	87	35	81	342	37
08:00	46	62	56	68	212	45	44	67	58	56	296	26
09:00	69	82	37	130	289	47	33	48	83	43	318	30
10:00	68	81	63	194	318	69	52	83	133	45	371	27
11:00	86	103	83	182	374	61	40	91	141	50	422	36
12:00	73	102	72	193	410	74	53	102	174	61	451	41
13:00	76	103	67	230	445	76	52	87	166	69	432	46
14:00	69	103	80	218	388	70	48	92	151	68	382	34
15:00	97	126	86	233	457	62	52	128	144	87	427	36
16:00	80	129	102	211	491	59	70	107	178	85	416	40
17:00	76	118	85	230	461	50	44	138	171	108	515	35
18:00	31	78	47	134	345	25	30	87	135	61	311	21

Quick	Analysis Tool Report -2021	
50	Injury Status Summary	17
1	Fatalities	1
0	Suspected serious/incapacitating	0
2	Suspected minor/non-incapacitating	2
11	Possible (complaint of pain/injury)	13
36	Unknown	1
	Average Severity	
208,332.00	Fatalities/Fatal Crash:	1.00
4,166.64	Fatalities/Crash:	0.02
101.00	Injuries/Crash:	0.30
2.02	Major Injuries/Crash:	0.00
151.00	Minor Injuries/Crash:	0.04
3.02	Possible/Unknown Injuries/Crash:	0.26
		-
	2017 50 1 0 2 11 36 208,332.00 4,166.64 101.00 2.02 151.00	1Fatalities0Suspected serious/incapacitating2Suspected minor/non-incapacitating11Possible (complaint of pain/injury)36UnknownAverage Severity208,332.00Fatalities/Fatal Crash:4,166.64Fatalities/Crash:101.00Injuries/Crash:2.02Major Injuries/Crash:151.00Minor Injuries/Crash:



Major Cause			48
Animal	0	Ran traffic signal	4
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	3
FTYROW: From stop sign	1	FTYROW: From yield sign	0
FTYROW: Making left turn	1	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	1	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	1	Improper or erratic lane changing	3
Operating vehicle in an reckless, erratic, ca	0	Followed too close	13
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	1
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	1	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	1	Ran off road - right	1
Ran off road - straight	0	Ran off road - left	1
Lost control	4	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	1
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	1	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	8
Unknown	1	Not reported	0
Other: No improper action	1		



## Time of Day/Day of Week

	-													
Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	1	0	1	1	0	0	0	0	3
Monday	0	0	0	0	0	1	1	1	2	1	0	1	0	7
Tuesday	0	0	0	0	0	2	1	1	1	1	0	0	0	6
Wednesday	0	0	0	0	0	0	0	2	0	0	1	0	0	3
Thursday	0	0	0	0	1	2	2	2	3	1	0	0	0	11
Friday	0	0	0	0	2	0	0	3	4	3	0	0	0	12
Saturday	0	0	0	0	0	0	2	3	3	0	0	0	0	8
Total	0	0	0	0	3	6	6	13	14	6	1	1	0	50

Manner of Crash Collision	50	Surface Conditions	50
Non-collision (single vehicle)	2	Dry	37
Head-on (front to front)	1	Wet	6
Rear-end (front to rear)	31	Ice/frost	1
Angle, oncoming left turn	2	Snow	5
Broadside (front to side)	6	Slush	0
Sideswipe, same direction	6	Mud, dirt	0
Sideswipe, opposite direction	1	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	1	Not reported	0
Unknown	0	Other	1
		Unknown	0

Fixed Object Struck			101
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	1	Traffic sign support	0
Traffic signal support	1	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	99



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Driver Age/Driver Gender							
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total		
< 14	0	0	0	0	0		
= 14	0	0	0	0	0		
= 15	0	0	0	0	0		
= 16	3	0	0	0	3		
= 17	1	0	0	0	1		
= 18	3	0	0	0	3		
= 19	3	0	0	0	3		
= 20	0	3	0	0	3		
>= 21 and <= 24	4	2	0	0	6		
>= 25 and <= 29	2	0	1	0	3		
>= 30 and <= 34	5	5	0	0	10		
>= 35 and <= 39	5	4	0	0	9		
>= 40 and <= 44	0	4	1	0	5		
>= 45 and <= 49	3	1	0	0	4		
>= 50 and <= 54	7	2	0	0	9		
>= 55 and <= 59	6	7	0	0	13		
>= 60 and <= 64	4	6	0	0	10		
>= 65 and <= 69	3	3	0	0	6		
>= 70 and <= 74	1	3	0	0	4		
>= 75 and <= 79	0	1	0	0	1		
>= 80 and <= 84	1	2	0	0	3		
>= 85 and <= 89	1	1	0	0	2		
>= 90 and <= 94	0	2	0	0	2		
>= 95	0	0	0	0	0		
Not reported	0	0	0	0	0		
Unknown	0	0	0	0	0		
Total	52	46	2	0	100		

Drug/Alcohol Related	50
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	1
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	49

Alcohol Test Given	101
None	96
Blood	0
Urine	0
Breath	1
Vitreous	0
Refused	1
Not reported	3

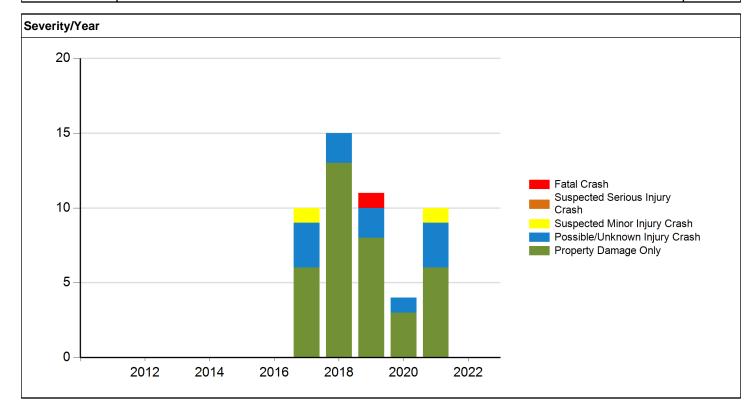
Drug Test Given	101
None	98
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	3

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



## Crash Severity - Annual

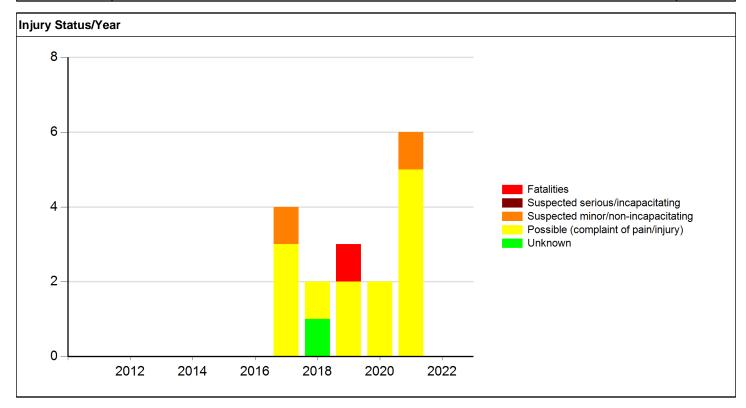
Grash Geventy -						
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	1	3	6	10
2018	0	0	0	2	13	15
2019	1	0	0	2	8	11
2020	0	0	0	1	3	4
2021	0	0	1	3	6	10
2022	0	0	0	0	0	0
Total	1	0	2	11	36	50





### Injury Status - Annual

Injury Status - A	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	1	3	0	4
2018	0	0	0	1	1	2
2019	1	0	0	2	0	3
2020	0	0	0	2	0	2
2021	0	0	1	5	0	6
2022	0	0	0	0	0	0
Total	1	0	2	13	1	17





#### Meeting the following criteria

Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: None

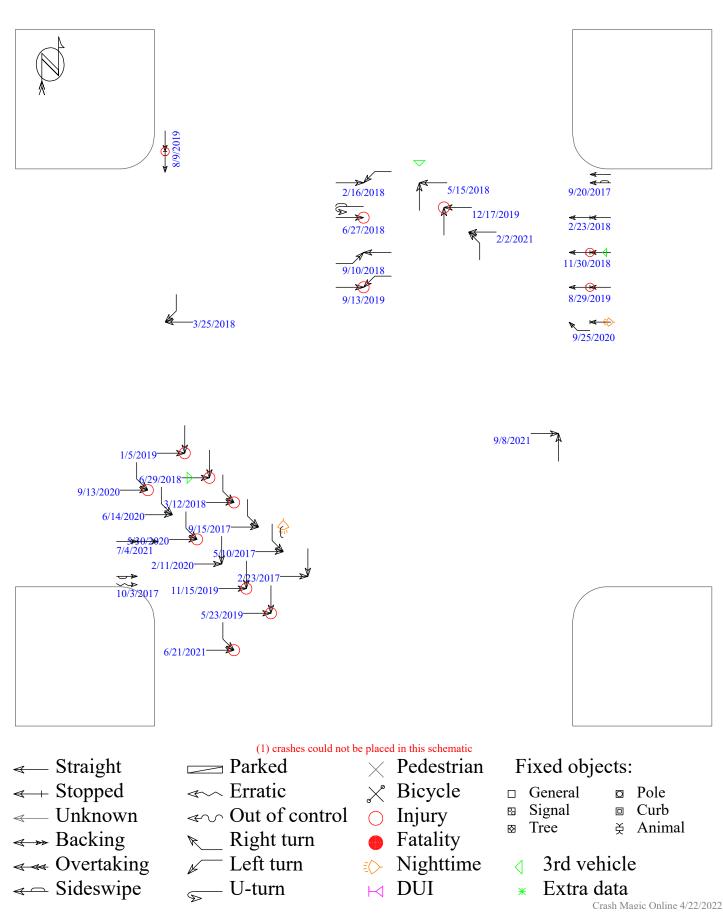
#### Analyst Information

IA 122 and Eisenhower Avenue, including functional areas, 2021-2017

# N. Iowa Events Center Access, 2017-2021 Collision Diagram

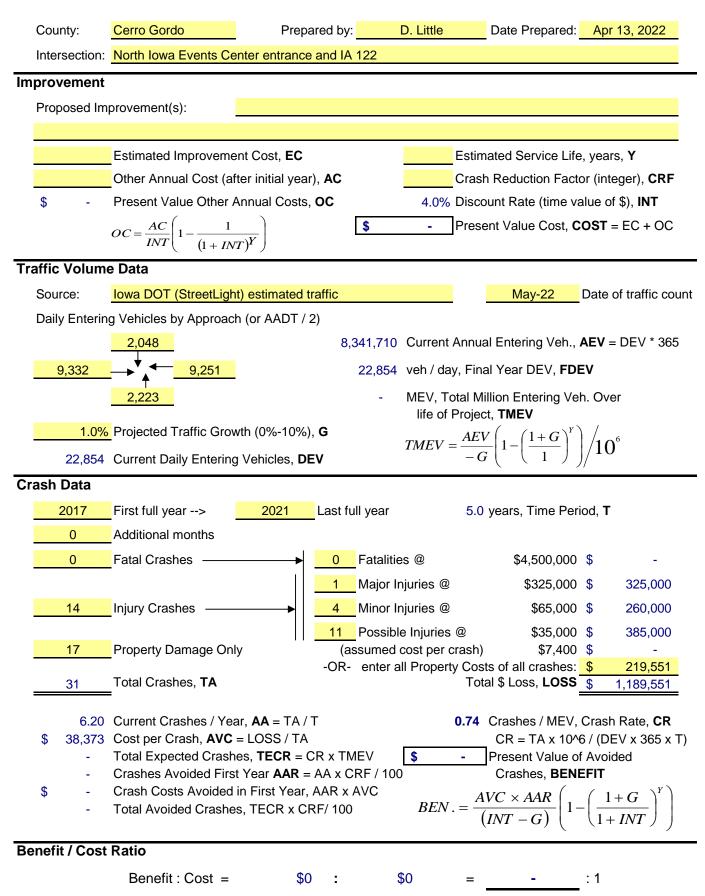
#### 31 Crashes

Clear



## Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



			NI Iowa	Events Center	Access			
				Frontage Rd				
			Right	Through	Left			
			1623	248	177			
	Left	1548				240	Right	
4th St SW	Through	7045				8061	Through	4th St SW
	Right	739				950	Left	
			376	552	1295			
			Left	Through	Right			
				Frontage Rd				

Source: Iowa DOT (StreetLight) Estimated Traffic, Provided by Systems Planning, May 2022

	Quick	Analysis Tool Report -2021	
Crash Severity	31	Injury Status Summary	16
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	1	Suspected serious/incapacitating	1
Suspected Minor Injury Crash	4	Suspected minor/non-incapacitating	4
Possible/Unknown Injury Crash	9	Possible (complaint of pain/injury)	11
Property Damage Only	17	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	219,551.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	7,082.29	Fatalities/Crash:	0.00
Total Vehicles:	64.00	Injuries/Crash:	0.52
Average (per crash):	2.06	Major Injuries/Crash:	0.03
Total Occupants:	82.00	Minor Injuries/Crash:	0.13
Average (per crash):	2.65	Possible/Unknown Injuries/Crash:	0.35
		FEIGT	



Major Cause			31
Animal	0	Ran traffic signal	0
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	2	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	4	FTYROW: From yield sign	1
FTYROW: Making left turn	10	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	2	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	2
Operating vehicle in an reckless, erratic, ca	0	Followed too close	1
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	1
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	1	Ran off road - right	0
Ran off road - straight	1	Ran off road - left	0
Lost control	0	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	6
Unknown	0	Not reported	0
Other: No improper action	0		



## Time of Day/Day of Week

	12 AM	2 AM	4 AM	6 AM	8 AM	10 AM	Noon	2 PM	4 PM	6 PM	8 PM	10 PM	Not	
Day of Week	to 2 AM	to 4 AM	to 6 AM	to 8 AM	to 10 AM	to Noon	to 2 PM	to 4 PM	to 6 PM	to 8 PM	to 10 PM	to 12 AM	reporte d	Total
Sunday	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Monday	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Tuesday	0	0	0	0	0	2	0	1	1	0	0	0	0	4
Wednesday	0	0	0	0	0	0	1	0	0	1	0	1	0	3
Thursday	0	0	0	0	0	1	1	1	1	0	0	0	0	4
Friday	0	0	0	1	0	3	1	2	2	0	0	0	0	9
Saturday	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Total	0	0	0	1	0	8	3	9	4	1	0	1	0	27

Manner of Crash Collision	31	Surface Conditions	31
Non-collision (single vehicle)	1	Dry	28
Head-on (front to front)	0	Wet	3
Rear-end (front to rear)	6	Ice/frost	0
Angle, oncoming left turn	3	Snow	0
Broadside (front to side)	16	Slush	0
Sideswipe, same direction	3	Mud, dirt	0
Sideswipe, opposite direction	1	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	1	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			64
Bridge overhead structure	1	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	1	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	62



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Driver Age/Driver Gender							
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total		
< 14	0	0	0	0	0		
= 14	0	0	0	0	0		
= 15	0	0	0	0	0		
= 16	0	1	0	0	1		
= 17	1	0	0	0	1		
= 18	0	0	0	0	0		
= 19	0	0	0	0	0		
= 20	2	0	0	0	2		
>= 21 and <= 24	2	2	0	0	4		
>= 25 and <= 29	4	0	0	0	4		
>= 30 and <= 34	2	3	0	0	5		
>= 35 and <= 39	1	5	0	0	6		
>= 40 and <= 44	1	3	0	0	4		
>= 45 and <= 49	1	2	1	0	4		
>= 50 and <= 54	0	5	0	0	5		
>= 55 and <= 59	1	1	0	0	2		
>= 60 and <= 64	5	2	0	0	7		
>= 65 and <= 69	1	2	0	0	3		
>= 70 and <= 74	3	4	0	0	7		
>= 75 and <= 79	2	2	0	0	4		
>= 80 and <= 84	1	0	0	0	1		
>= 85 and <= 89	0	2	0	0	2		
>= 90 and <= 94	0	1	0	0	1		
>= 95	0	0	0	0	0		
Not reported	0	0	0	0	0		
Unknown	0	0	0	0	0		
Total	27	35	1	0	63		

Drug/Alcohol Related	31
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	31

Alcohol Test Given	64
None	63
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	1

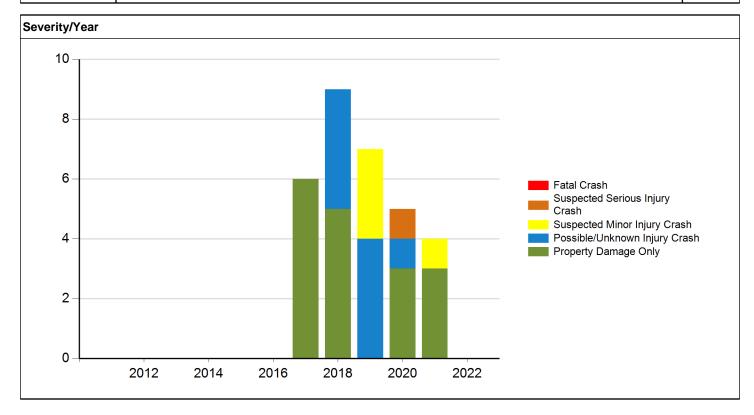
Drug Test Given	64
None	63
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	1

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



## Crash Severity - Annual

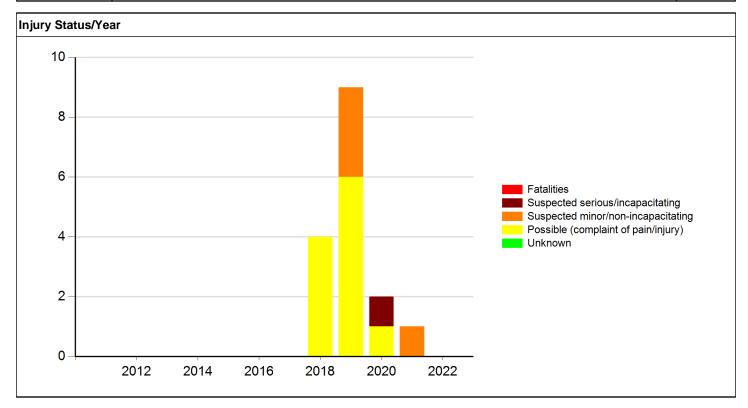
	Annual					
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	6	6
2018	0	0	0	4	5	9
2019	0	0	3	4	0	7
2020	0	1	0	1	3	5
2021	0	0	1	0	3	4
2022	0	0	0	0	0	0
Total	0	1	4	9	17	31





### Injury Status - Annual

Injury Status - A	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	4	0	4
2019	0	0	3	6	0	9
2020	0	1	0	1	0	2
2021	0	0	1	0	0	1
2022	0	0	0	0	0	0
Total	0	1	4	11	0	16





#### Meeting the following criteria

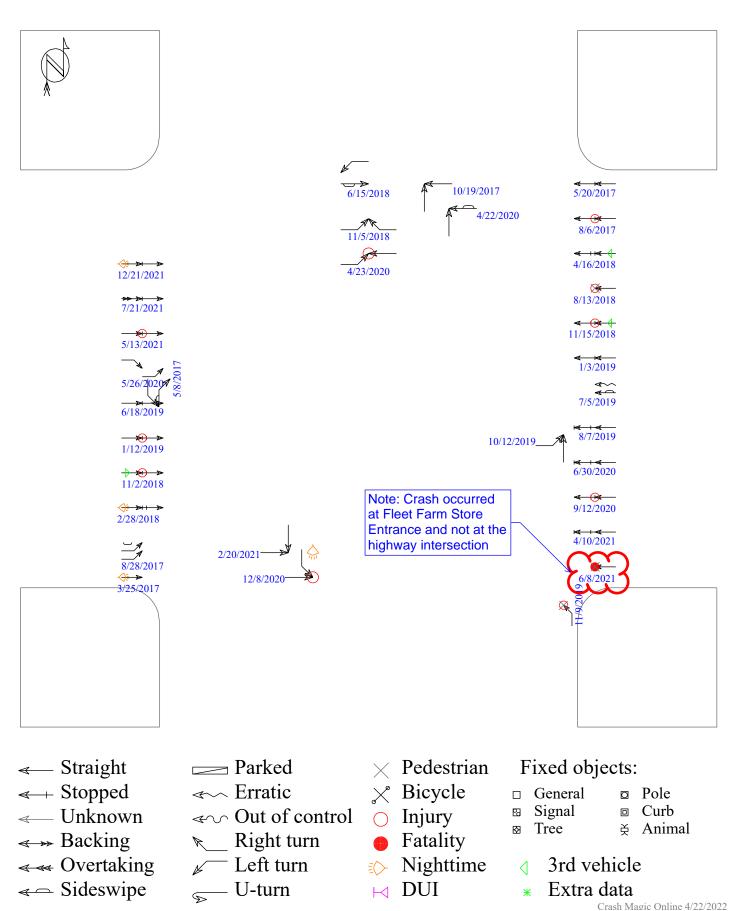
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: None

Analyst Information

# Village Green Dr/Roosevelt Ave and IA 122 2017-2021 Collision Diagram

32 Crashes

Clear





			INV	ESTIGA						TOF							Low	Enfor	come	Sh ant Ca	_	2 of	
	m 4433003 (11-13) IL REPORTS TO: lowa [	Denadma	nt of Transp					CCIDEI		s Moines	lowa t	50306-9204					MC2			in ca	Se NI	mper	15.
1417	Date of Accident	Time of	Accident	County				1	Accide	ent occu	rred w	ithin corpo	orate i	imits (	of (cit	()	Legal				Privat		$\boxtimes$
	06/08/2021 1 Literal Description	14:48	Hrs.	CERRO G	SORDO	) - 17			MASC	DN CITY	- 482	2					Interv		n?		Prope		
c	3200 4TH ST SW (M	MILLS F	LEET FAR	RM)													17	.y.				·	_
A	if eccident occurred				N	NE E	SE	S SV	N W	5							X Co						
T	city limits show gane On Road, Street or I		-		0	$\underline{0}\underline{0}$	) () At in	tersection	) n with	~	fnear	est city				_	4797 Y Co						
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N	Note: Unless accide location from a mile	ent occur	red at en i	ntersection	which bridge	is compl	letely oad c	describe	ed ebo usina	ove, use two dist	the sp ances	ace belov	i to gi lons i	ve the	exac essar	t Vof	lf Divi	ded F	liahy	vav P	rovide	Rou	ite
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	Milepost Number	Or		e intersect or reilroad o		9													_			_	
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	ion of First Harmful Even		Weather	Conditions (	up to two			ributing Ci	rcumst	lances En	vironm				影		bact)	-			stance		.9
	er of Crash/Collision	01	Surfece C	01	01	Road		adway Jun	at and	Tankun		01 97		- Second	4	ype	to Imp	crash)	200	ert	rcums	sport	nout
Ligni	Conditions	1	Surrece C	Junuiduns	01	FRAI		adway Juli	ICIIO///	reature		97		Unit	this	orist T	(prior	rior to		mding	Ing Cl	f Tran	cene/
First	Harmful Event (Crest	h) wor	RKZONE	Yes N		ctivity	Loca	ation	Туре	We	orkers	Present	-	Struck by Unit No.	Injury Status	Non-Motorist Type	Location (prior to impact)	Action (prior to	Condition	Safety Equipment	Contributing Circumstances	Source of Transport	Died at scene/enroute
32	Name 001	REL	ATED?	00			Phone	e Numbe	r		D	OB:	Sex	b	ici	Ž	Lo	Ac	8.	ŝ	.8	ŝ	ă
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I S	Address:									Aicoho	Test	Given T	est Re	suits:	Dru	g Te	st Glv	en F	Resu	it Ch	arged	Yes	No
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OR	vehicles damaged ex											a						ma bli					
N O V P	Owner's Last Name					First Nar	me					Middle No	me				Pho	ne Ni	umpe	ər			
E E H R	Address					City						Stata	Zip Co	de						tenar o 9 =			
ΙT	If Property other than	ı	Object Da	meged								i							Es	limate	e of D	amag	e
CY U	vehicles damaged ex Owner's Lest Name	kplain				First Nar	me	- India				Middle Na	me				Pho	ne Ni	umbe	er			_
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I T	Last Neme		First Nam	e	Add	réss					_	City			Sta	te	Zip Co	de	F	hone	Num	)er	
N E	Lest Name		First Name	e	Addi	ress						City			Ste	te	Zip Co	de	F	hone	Numl	)er	
S	Last Name		FirstNam	ė	Add	ress						City			Sta	te	Zip Co	de	F	hone	Num	)er	
	Last Name		First Nam	9	Add	ress						City			Sta	te	Zip Co	de	F	hone	Num	bar	_
is Th Y	is a Secondary Crash	1?	Type of P	rimary Incl	dent								way (		nce E	)ate		incid 06/01		Cleara 21	nce D	ate	
Sign	eture of Officer				· · ·	Numbe		Ime Offic	er No				wey C	leara				Incid 16:0		Cleara			
	CER CORBY FRIED	EKICH			2765 Date of	of Report		4:49 Time Offic	cer An	Hn rived At		15:50 Totel	Road	way (		Irs. Ince	Time	-		dent		Hrs. nce T	lime
MAS	ON CITY POLICE DE	EPARTN	IENT		06/08	2021	1	5:02		Hr	S.	001:	)1					001:		Marin			
	rt Reviewed By EKMUR, TIFFANY				Date 0	of Review 1 <b>202</b> 1	N	nvestigati Y 💽	ion m	NO	cene?	T.I. N	10.		ſ	Jine	r Tech	IICel	INVO	ugat	ng Ag	внсу	

2021118:2001

Law Enforcement Case Numbers:

Sheat 1 of 3

C # 2 6

# **INVESTIGATING OFFICER'S REPORT** OF MOTOR VEHICLE ACCIDENT

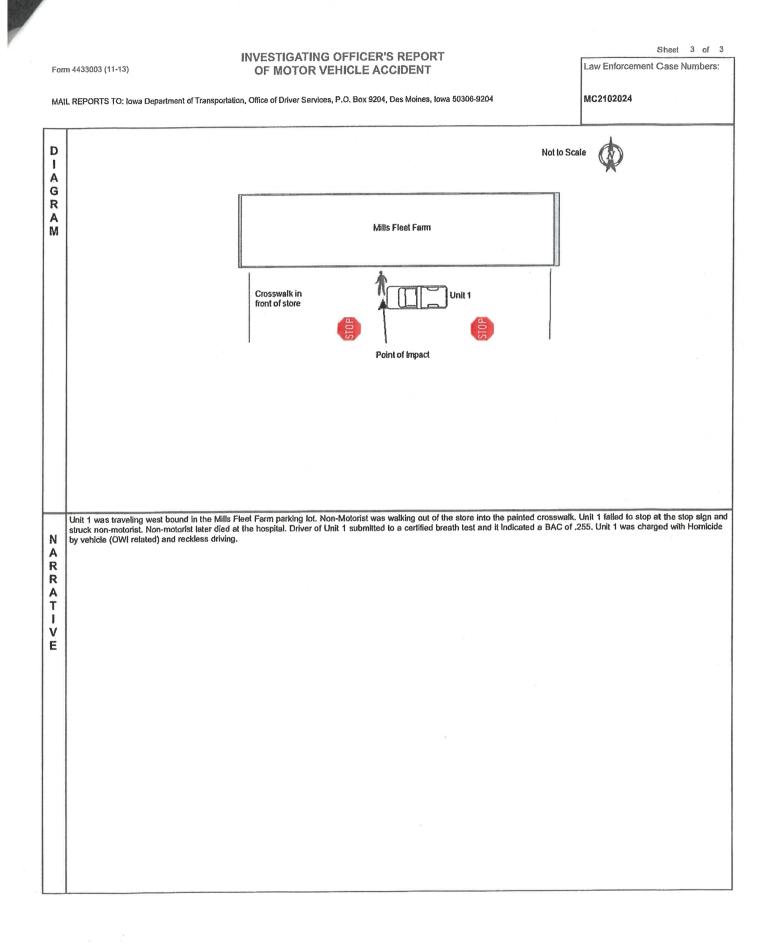
Form 4433003 (11-13)

Address

M	AIL REPORTS TO	): Iowa	Departmer	nt of Trai	nsportat	lion, Of	fice of Driver S	Services, P	.O. Bo	x 9204, D	es Molnes, la	owa 50	306-9204				мс	21020	)24			
	te of Accident		of Accide		ounty	CODE	0. 47				ent occurre		hin corpo	rete limite	s of (c	lty)						
06/	08/2021 Driver's Nam	14:48		s. Ci	ERRO	GORL	00 - 17				ON CITY -	4822					- Mid	ماله		e a constante		
U	Dilversivan	e-La	51							First							Middle					
N	Address									City	STRUCTURE CO.						Siat		ip			
	2 Statestate							1	1	OMA							NE	6	8022			
	Date of Birth 05/12/1986		Driver's			nber		CDL	но	ilion Ch	erge 1 BY VEHIC	LÈ- C	PERATI				Charg ESS [		IG			
ľ.	Mele Female			Endo	orseme	ints	Restrictions	Yes No	Cita	ation Ch	arge 3				Cita	ation	Charg	je 4				
	Alcohol Test	I/ Given:		Results	: [[	Drug T	est Given:	Test Re	_	Re-ex	am: Yes	No	Reason	for Re-E	(am R	eque	əst:					
	4		.255		1	-					0	۲										
	Owner's Nam Report Anno	e - La	st							First	-						Mide					
	Address									City							Stet	100	D			
		1. 3								OMA	łA						NE		3022			
	License Plate IBW595	No.	State IA	Yeer 2020	VIN:	TOF	35F1219596			Color GRY			Year 2015	Make CHEV			Mod	el ORA	00	Sty TK	e	
	Trailer Plate N	10.	State	Year	VIN:	3101.	536-12 18 38 0			Tow	Tow#		2015	Towed 1	б		1005		prox. Cos	_	air or Rej	place
										1								\$	500.00			
	Insurance Co FARMERS IN										nce Co. Ph 435-7764	ione l	Number	Insurance 1934791		icy N	umbe	r				
	Initial Travel C	_		Act.	/eh. Co	onfig.	Cergo Bod	y Type	Veh. [	12 2	Point of Init	lial Im	pact Mo	ost Dama		ree	Exten	t of Da	amage	Tota	Occ.	In Veh
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	Special Veh. I 01		Emergen 01	cy Stat	us Bi	us Use	Driver Col 06		/islon 1	Obscure	ed Contrib 02,98	uting	Circumst	ances Dr	ver (u	ip to		Driver 16	Distra	ctions	Spee 15	ed Limit
	Traffic Control		Horizonta	al Align	ment		al Alignmen	Com Ge	UENC	~   ···	st Event	Se	cond Eve	nt Third	Even	ıt	Four	th Eve			armful	Event
	04 Carrier Name		01 e			01		OF E	VENT	S 32									3	2	-	-
С			-																			
0 M	Street Addres	5								City					-		State	Zij	Code			
M	Number of Ax	es	Gros	s Vehi	cle We	ight R	laling			US DO	)T Number		MC N	umber			Unde	erride/	Overric	e		-
E																	1 - N	ONE				
RC	Haz Mat Invol	/emer	t Haz	Mat Pla	acard	Plac	ard Number	Haz, M	lat Re	leased	Haz Mat	Class	s Haz M	lat Name								
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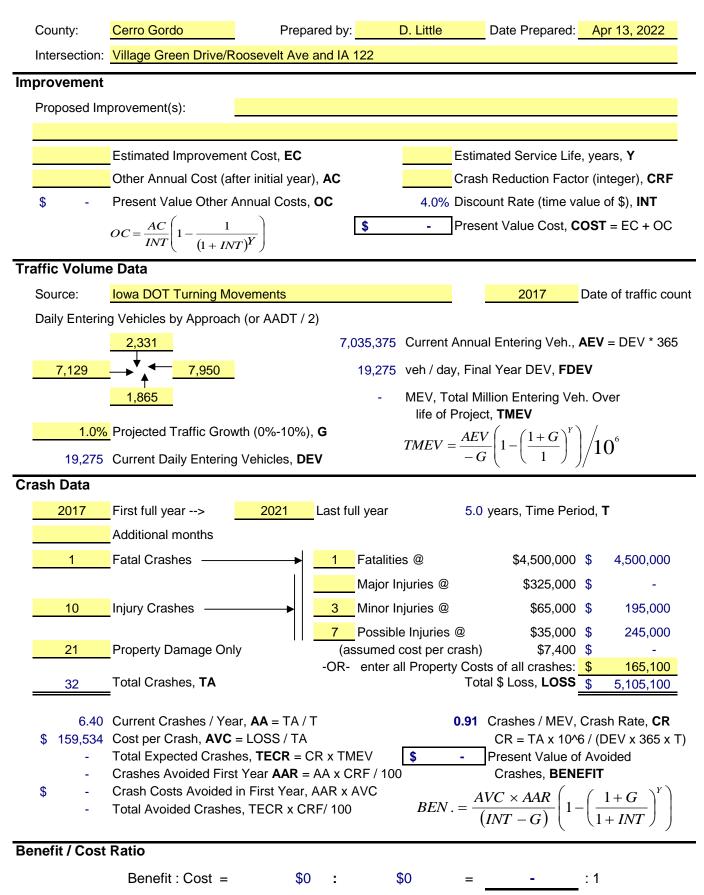
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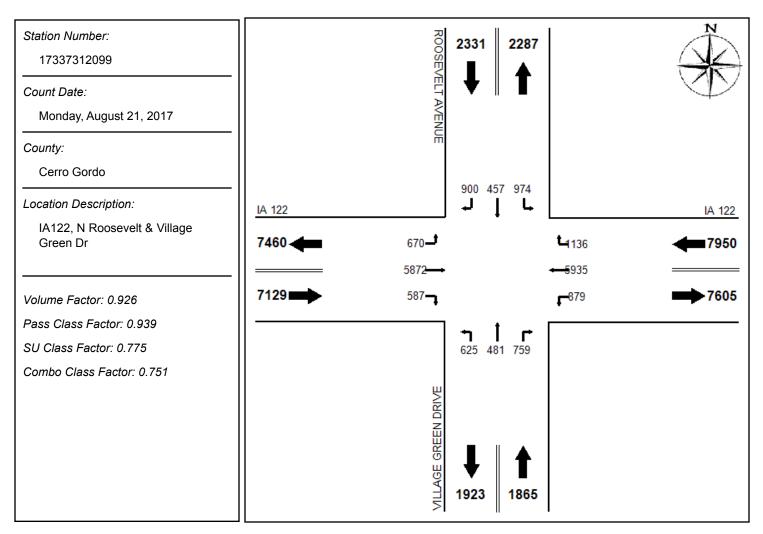
## Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



## Iowa Department of Transportation

Turning Movement Traffic Count Summary Annualized Daily Traffic For All Vehicles



#### **Raw Data-All Vehicles:**

		N Leg			E Leg			S Leg		W Leg			
	LTR		R	L T		R	L	Т	R	L	Т	R	
00:00	0	0	1	0	31	0	0	1	1	0	33	0	
01:00	1	0	1	1	26	1	1	0	0	0	32	0	
02:00	0	0	1	1	16	0	1	1	1	0	22	0	
03:00	0	0	0	0	20	1	0	0	0	0	17	0	
04:00	2	1	0	5	53	2	0	0	0	1	28	4	
05:00	0	1	1	2	97	13	1	2	2	4	85	2	
06:00	3	0	11	3	173	13	4	0	1	6	161	9	
07:00	13	4	26	13	264	35	10	13	8	7	372	36	
08:00	22	10	25	29	303	42	24	16	17	29	340	30	
09:00	47	23	57	63	370	71	40	27	42	36	351	47	
10:00	69	45	62	69	436	111	55	35	61	46	387	58	
11:00	103	48	72	80	463	95	58	50	90	69	511	60	
12:00	109	51	78	102	498	115	43	75	86	69	522	56	
13:00	74	23	52	71	337	67	37	26	46	50	303	39	
14:00	94	43	90	107	500	114	59	51	85	57	477	57	
15:00	106	62	103	90	546	116	69	53	92	77	493	53	
16:00	114	55	101	106	581	138	64	47	78	69	515	48	
17:00	87	44	88	75	550	83	55	45	71	86	507	48	
18:00	71	32	47	39	349	73	53	22	44	47	344	31	

	Quick	Analysis Tool Report -2021	
Crash Severity	32	Injury Status Summary	13
Fatal Crash	1	Fatalities	1
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	0
Suspected Minor Injury Crash	3	Suspected minor/non-incapacitating	3
Possible/Unknown Injury Crash	7	Possible (complaint of pain/injury)	9
Property Damage Only	21	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	165,100.00	Fatalities/Fatal Crash:	1.00
Average (per crash dollars):	5,159.38	Fatalities/Crash:	0.03
Total Vehicles:	63.00	Injuries/Crash:	0.38
Average (per crash):	1.97	Major Injuries/Crash:	0.00
Total Occupants:	92.00	Minor Injuries/Crash:	0.09
Average (per crash):	2.88	Possible/Unknown Injuries/Crash:	0.28
			E



Major Cause			31
Animal	0	Ran traffic signal	2
Ran stop sign	1	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	2	FTYROW: Making right turn on red signal	2
FTYROW: From stop sign	0	FTYROW: From yield sign	0
FTYROW: Making left turn	2	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	1	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	1
Operating vehicle in an reckless, erratic, ca	1	Followed too close	8
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	1
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	1
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	3	Swerving/Evasive Action	1
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	3
Unknown	1	Not reported	0
Other: No improper action	1		



# Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Monday	0	0	0	0	0	3	1	1	0	0	0	0	0	5
Tuesday	0	0	0	0	0	1	0	0	1	2	0	0	0	4
Wednesday	0	0	0	0	0	0	2	0	0	0	1	0	0	3
Thursday	0	0	0	0	1	0	1	1	1	0	0	0	0	4
Friday	0	0	0	0	1	0	2	0	0	0	0	0	0	3
Saturday	0	0	0	0	0	1	3	0	1	0	1	0	0	6
Total	0	0	0	0	2	5	10	2	3	2	2	0	0	26

Manner of Crash Collision	32	Surface Conditions	32
Non-collision (single vehicle)	4	Dry	27
Head-on (front to front)	1	Wet	5
Rear-end (front to rear)	16	Ice/frost	0
Angle, oncoming left turn	2	Snow	0
Broadside (front to side)	3	Slush	0
Sideswipe, same direction	3	Mud, dirt	0
Sideswipe, opposite direction	2	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	1	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			63
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	63



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#### Iowa Crash Analysis Tool Quick Report 2017-2021

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Driver Age/Driver Gender								
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total			
< 14	0	0	0	0	0			
= 14	0	0	0	0	0			
= 15	0	0	0	0	0			
= 16	0	0	0	0	0			
= 17	0	0	0	0	0			
= 18	1	0	0	0	1			
= 19	2	0	0	0	2			
= 20	1	2	0	0	3			
>= 21 and <= 24	2	3	0	0	5			
>= 25 and <= 29	1	1	0	0	2			
>= 30 and <= 34	1	4	0	0	5			
>= 35 and <= 39	4	4	0	0	8			
>= 40 and <= 44	2	1	0	0	3			
>= 45 and <= 49	2	0	0	0	2			
>= 50 and <= 54	3	2	0	0	5			
>= 55 and <= 59	2	1	0	0	3			
>= 60 and <= 64	4	1	0	0	5			
>= 65 and <= 69	4	2	0	0	6			
>= 70 and <= 74	4	1	0	0	5			
>= 75 and <= 79	2	3	0	0	5			
>= 80 and <= 84	1	0	0	0	1			
>= 85 and <= 89	1	0	0	0	1			
>= 90 and <= 94	1	0	0	0	1			
>= 95	0	0	0	0	0			
Not reported	0	0	0	0	0			
Unknown	0	0	0	0	0			
Total	38	25	0	0	63			

Drug/Alcohol Related	32
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	1
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	31

Alcohol Test Given	63
None	62
Blood	0
Urine	0
Breath	1
Vitreous	0
Refused	0
Not reported	0

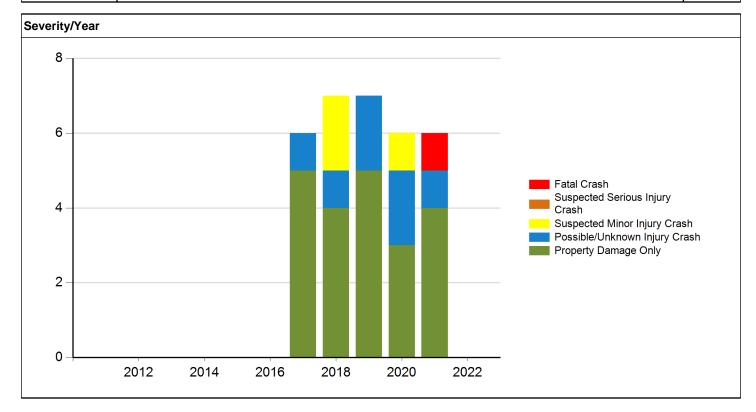
Drug Test Given	63
None	63
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

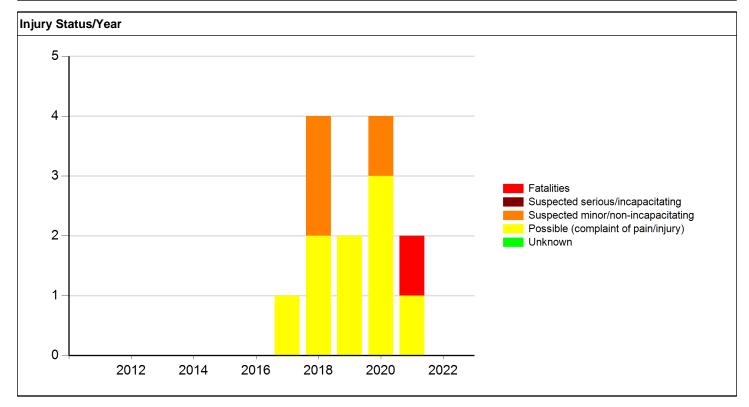
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	1	5	6
2018	0	0	2	1	4	7
2019	0	0	0	2	5	7
2020	0	0	1	2	3	6
2021	1	0	0	1	4	6
2022	0	0	0	0	0	0
Total	1	0	3	7	21	32





## Injury Status - Annual

Injury Status - Al	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	1	0	1
2018	0	0	2	2	0	4
2019	0	0	0	2	0	2
2020	0	0	1	3	0	4
2021	1	0	0	1	0	2
2022	0	0	0	0	0	0
Total	1	0	3	9	0	13





#### Meeting the following criteria

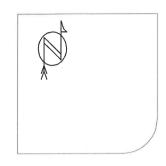
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: None

#### Analyst Information

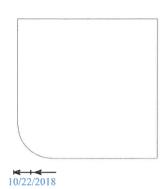
Village Green/Roosevelt and IA 122

# Tiffany Drive, 2017-2021 Collision Diagram

9 Crashes

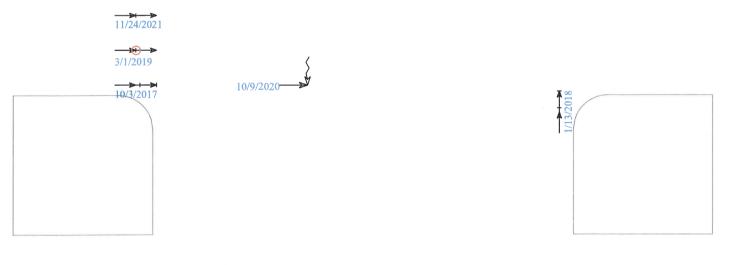






8/29/2019

9/3/2020



- ← Straight
- <--+ Stopped
- ← Unknown
- Backing
- Sideswipe

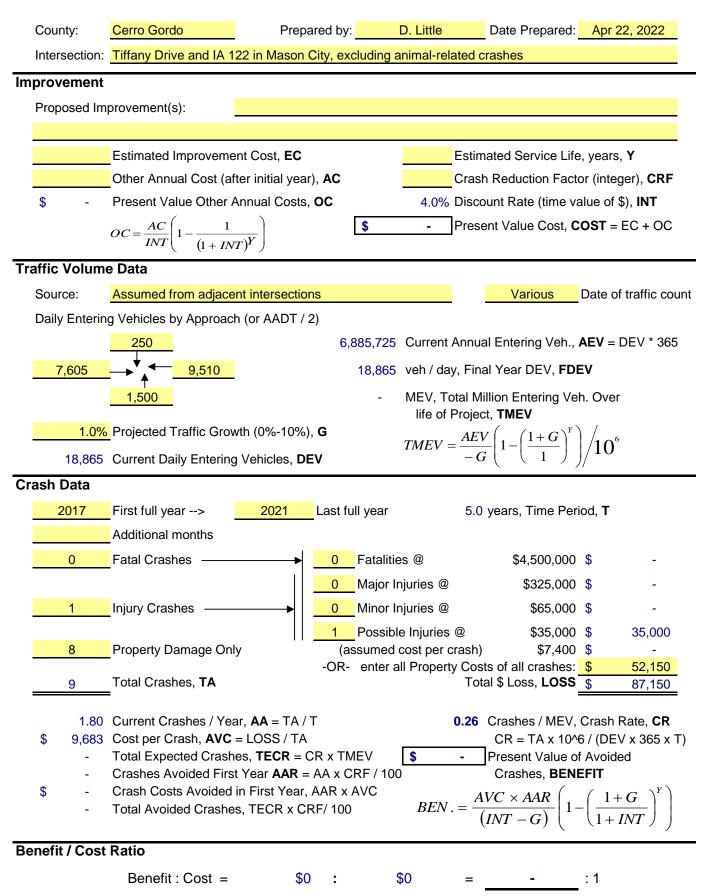
- Parked
- <--- Erratic
- $\triangleleft$  Out of control  $\bigcirc$
- Right turn
- Left turn
- 🗩 U-turn

- $\times$  Pedestrian
- $\times$  Bicycle
- Injury
- Fatality
- Nighttime
- ⊢ DUI

- Fixed objects:
- □ General ø Pole Signal Curb 23 ⊠ Tree
  - ý Animal
- 3rd vehicle 1
- Extra data ж

# Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



	Quick	Analysis Tool Report -2021		
Crash Severity	9	Injury Status Summary	1	
Fatal Crash	0	Fatalities		
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	0	
Suspected Minor Injury Crash	0	Suspected minor/non-incapacitating	0	
Possible/Unknown Injury Crash	1	Possible (complaint of pain/injury)	1	
Property Damage Only	8	Unknown	0	
Property/Vehicles/Occupants		Average Severity		
Property Damage Total (dollars):	52,150.00	Fatalities/Fatal Crash:	0.00	
Average (per crash dollars):	5,794.44	Fatalities/Crash:	0.00	
Total Vehicles:	18.00	Injuries/Crash:	0.11	
Average (per crash):	2.00	Major Injuries/Crash:	0.00	
Total Occupants:	25.00	Minor Injuries/Crash:	0.00	
Average (per crash):	2.78	Possible/Unknown Injuries/Crash:	0.11	



Major Cause			9
Animal	0	Ran traffic signal	0
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	1	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	0	FTYROW: From yield sign	0
FTYROW: Making left turn	1	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	0	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	0
Operating vehicle in an reckless, erratic, ca	0	Followed too close	3
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	1
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	0	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	3
Unknown	0	Not reported	0
Other: No improper action	0		



# Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monday	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Tuesday	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Wednesday	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Thursday	0	0	0	0	0	0	1	0	2	0	0	0	0	3
Friday	0	0	0	0	0	0	1	0	1	0	0	0	0	2
Saturday	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	4	0	5	0	0	0	0	9

Manner of Crash Collision	9	Surface Conditions	9
Non-collision (single vehicle)	0	Dry	6
Head-on (front to front)	0	Wet	3
Rear-end (front to rear)	7	Ice/frost	0
Angle, oncoming left turn	1	Snow	0
Broadside (front to side)	1	Slush	0
Sideswipe, same direction	0	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			18
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	18



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Driver Age/Driver Gender								
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total			
< 14	0	0	0	0	0			
= 14	0	0	0	0	0			
= 15	0	0	0	0	0			
= 16	0	0	0	0	0			
= 17	1	0	0	0	1			
= 18	0	0	0	0	0			
= 19	0	0	0	0	0			
= 20	0	0	0	0	0			
>= 21 and <= 24	0	0	1	0	1			
>= 25 and <= 29	1	2	0	0	3			
>= 30 and <= 34	1	1	0	0	2			
>= 35 and <= 39	1	0	0	0	1			
>= 40 and <= 44	0	0	0	0	0			
>= 45 and <= 49	0	0	0	0	0			
>= 50 and <= 54	4	1	0	0	5			
>= 55 and <= 59	1	3	0	0	4			
>= 60 and <= 64	0	0	0	0	0			
>= 65 and <= 69	0	0	0	0	0			
>= 70 and <= 74	0	0	0	0	0			
>= 75 and <= 79	0	0	0	0	0			
>= 80 and <= 84	1	0	0	0	1			
>= 85 and <= 89	0	0	0	0	0			
>= 90 and <= 94	0	0	0	0	0			
>= 95	0	0	0	0	0			
Not reported	0	0	0	0	0			
Unknown	0	0	0	0	0			
Total	10	7	1	0	18			

Drug/Alcohol Related	9
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	9

Alcohol Test Given	18
None	18
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

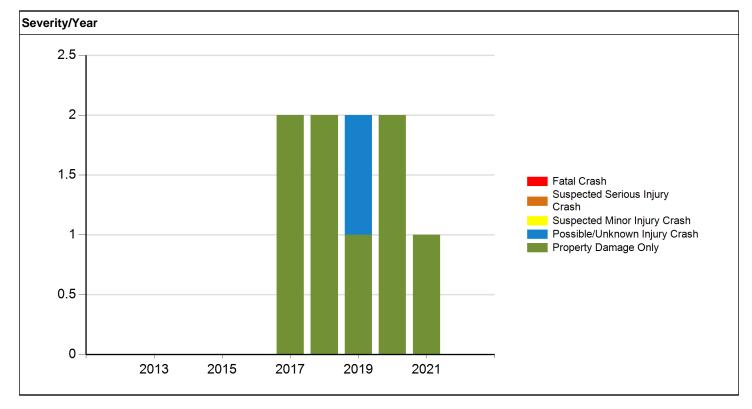
Drug Test Given	18
None	18
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

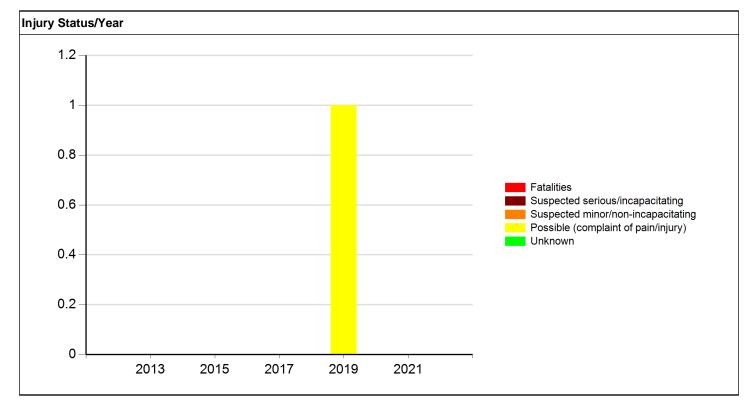
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	2	2
2018	0	0	0	0	2	2
2019	0	0	0	1	1	2
2020	0	0	0	0	2	2
2021	0	0	0	0	1	1
2022	0	0	0	0	0	0
Total	0	0	0	1	8	9





## Injury Status - Annual

Injury Status - Al	inuai					_
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	0	0	0
2019	0	0	0	1	0	1
2020	0	0	0	0	0	0
2021	0	0	0	0	0	0
2022	0	0	0	0	0	0
Total	0	0	0	1	0	1





#### Meeting the following criteria

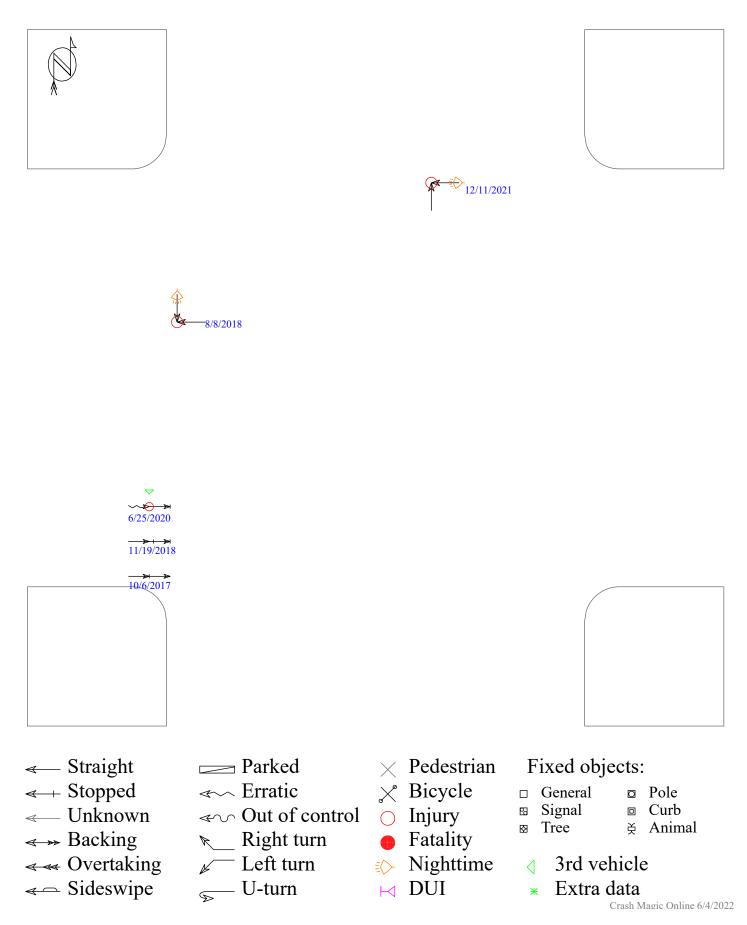
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: Non Animal-related

#### Analyst Information

Tiffany Drive and IA 122 In Mason City 2017-2021 Excluding Animal-related Crashes

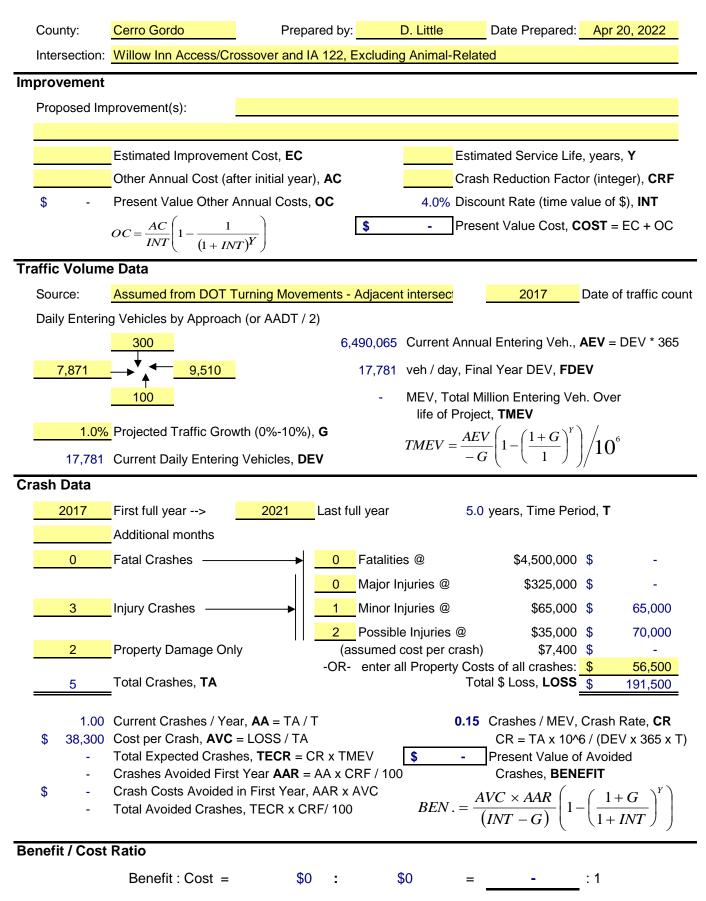
# WIllow Inn Access and IA 122, Collision Diagram

#### 5 Crashes



# Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



Crash Severity	5	Injury Status Summary	3
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	0
Suspected Minor Injury Crash	1	Suspected minor/non-incapacitating	1
Possible/Unknown Injury Crash	2	Possible (complaint of pain/injury)	2
Property Damage Only	2	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	56,500.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	11,300.00	Fatalities/Crash:	0.00
Total Vehicles:	11.00	Injuries/Crash:	0.60
Average (per crash):	2.20	Major Injuries/Crash:	0.00
Total Occupants:	13.00	Minor Injuries/Crash:	0.20
Average (per crash):	2.60	Possible/Unknown Injuries/Crash:	0.40





Major Cause			5
Animal	0	Ran traffic signal	0
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	1	FTYROW: From yield sign	0
FTYROW: Making left turn	0	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	0	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	0
Operating vehicle in an reckless, erratic, ca	0	Followed too close	2
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	0	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	2
Unknown	0	Not reported	0
Other: No improper action	0		



### Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monday	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Tuesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Thursday	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Friday	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Saturday	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	0	0	0	0	0	0	2	0	1	0	1	1	0	5

Manner of Crash Collision	5	Surface Conditions	5
Non-collision (single vehicle)	0	Dry	3
Head-on (front to front)	0	Wet	1
Rear-end (front to rear)	3	Ice/frost	0
Angle, oncoming left turn	0	Snow	1
Broadside (front to side)	2	Slush	0
Sideswipe, same direction	0	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			11
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	11



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Driver Age/Driver Gender								
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total			
< 14	0	0	0	0	0			
= 14	0	0	0	0	О			
= 15	0	0	0	0	0			
= 16	0	0	0	0	0			
= 17	1	0	0	0	1			
= 18	0	0	0	0	0			
= 19	1	0	0	0	1			
= 20	0	0	0	0	0			
>= 21 and <= 24	1	0	0	0	1			
>= 25 and <= 29	1	0	0	0	1			
>= 30 and <= 34	0	1	0	0	1			
>= 35 and <= 39	2	0	0	0	2			
>= 40 and <= 44	1	1	0	0	2			
>= 45 and <= 49	0	1	0	0	1			
>= 50 and <= 54	0	0	0	0	0			
>= 55 and <= 59	1	0	0	0	1			
>= 60 and <= 64	0	0	0	0	0			
>= 65 and <= 69	0	0	0	0	0			
>= 70 and <= 74	0	0	0	0	0			
>= 75 and <= 79	0	0	0	0	0			
>= 80 and <= 84	0	0	0	0	0			
>= 85 and <= 89	0	0	0	0	0			
>= 90 and <= 94	0	0	0	0	0			
>= 95	0	0	0	0	0			
Not reported	0	0	0	0	0			
Unknown	0	0	0	0	0			
Total	8	3	0	0	11			

Drug/Alcohol Related	5
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	5

Alcohol Test Given	11
None	11
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

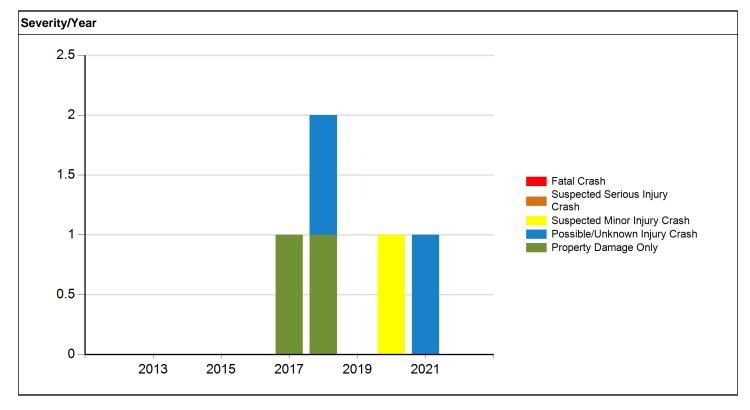
Drug Test Given	11
None	11
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

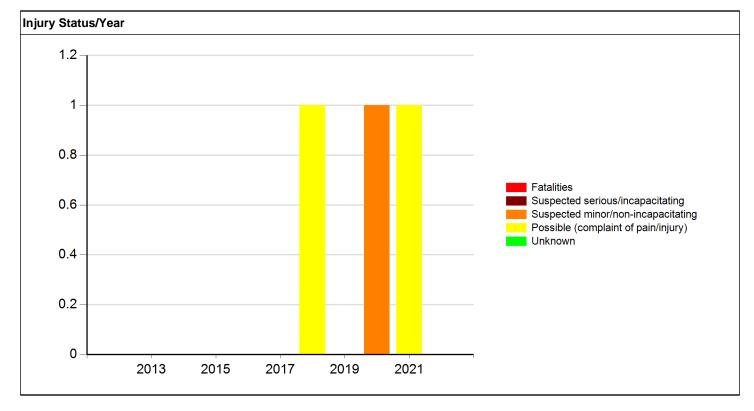
orasii Gevenity -	Annual					
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	1	1
2018	0	0	0	1	1	2
2019	0	0	0	0	0	0
2020	0	0	1	0	0	1
2021	0	0	0	1	0	1
2022	0	0	0	0	0	0
Total	0	0	1	2	2	5





## Injury Status - Annual

Injury Status - Al	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	0	0	0
2018	0	0	0	1	0	1
2019	0	0	0	0	0	0
2020	0	0	1	0	0	1
2021	0	0	0	1	0	1
2022	0	0	0	0	0	0
Total	0	0	1	2	0	3





#### Meeting the following criteria

Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: Non Animal-related

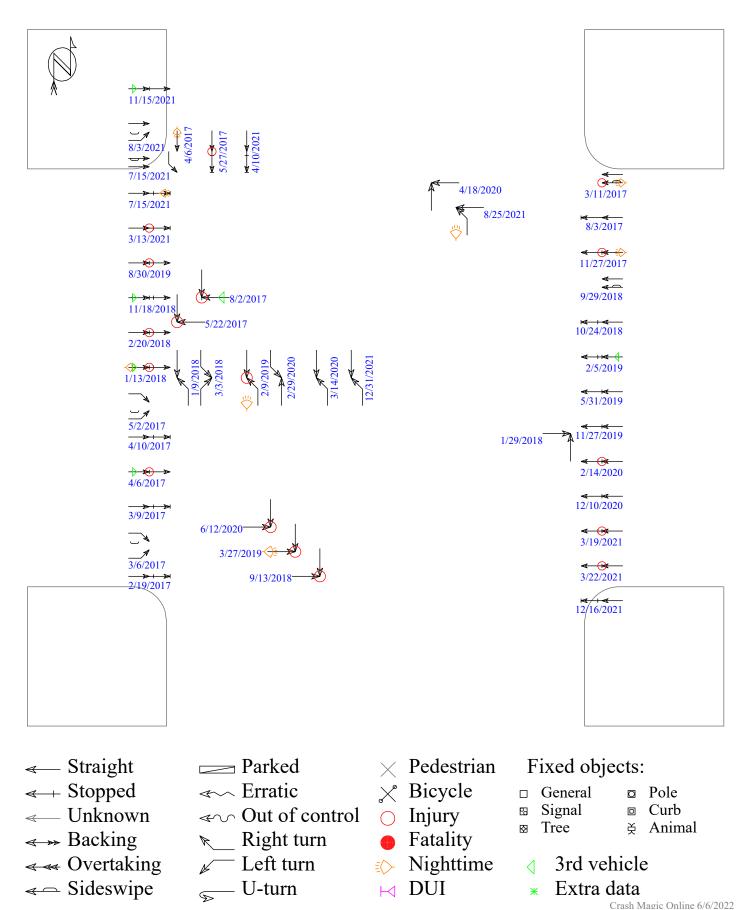
#### Analyst Information

WIllow Inn Access and IA 122 in Mason City 2017-2021 Excluding Animal-related crashes

# Taft Drive, 2017-2021 Collision Diagram

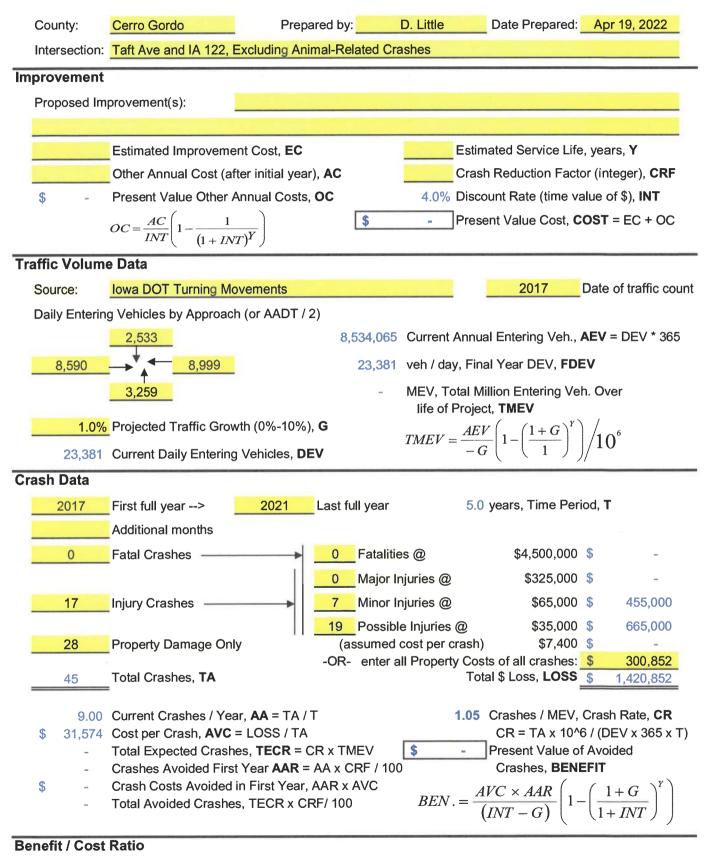
#### 45 Crashes

Clear



# Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety



Benefit : Cost =

\$0

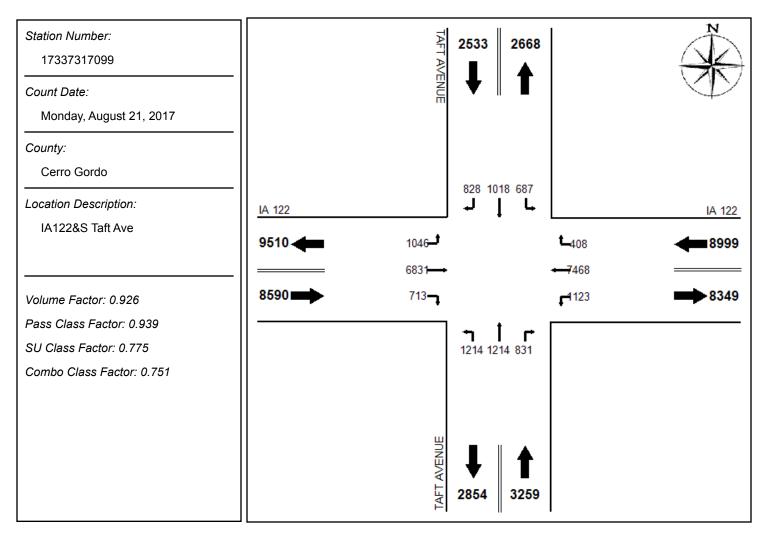
**\$0** 

1

: 1

# Iowa Department of Transportation

Turning Movement Traffic Count Summary Annualized Daily Traffic For All Vehicles



#### **Raw Data-All Vehicles:**

	N Leg				E Leg			S Leg			W Leg		
	L	Т	R	L	Т	R	L	Т	R	L	Т	R	
00:00	3	8	6	8	44	5	5	15	6	6	48	6	
01:00	0	4	0	1	26	0	3	6	4	2	29	2	
02:00	0	4	1	4	13	0	5	6	1	2	19	1	
03:00	-	3	0	1	22	0	1	3	1	0	11	3	
04:00	2	6	10	10	64	1	4	11	3	1	21	5	
05:00	3	50	8	42	105	5	3	18	5	11	74	13	
06:00	11	38	16	35	183	7	17	31	24	3	140	17	
07:00	31	102	42	53	320	20	49	58	69	21	343	25	
08:00	36	60	46	56	357	12	59	71	52	21	341	37	
09:00	35	47	51	72	473	24	65	56	57	55	389	40	
10:00	41	59	64	68	593	22	111	67	55	81	468	42	
11:00	57	66	67	87	618	24	122	98	62	100	586	63	
12:00	70	58	80	137	603	44	134	87	73	94	653	66	
13:00	83	89	82	100	637	46	130	96	75	94	577	70	
14:00	69	74	94	73	660	40	110	96	80	98	574	64	
15:00	36	88	62	123	696	30	85	131	55	101	605	63	
16:00	51	87	72	87	741	42	108	144	79	123	606	71	
17:00	50	93	61	88	637	42	113	125	72	117	522	53	
18:00	46	59	30	46	377	20	69	69	44	73	377	39	

	Quick	Analysis Tool Report -2021	
Crash Severity	45	Injury Status Summary	26
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	C
Suspected Minor Injury Crash	3	Suspected minor/non-incapacitating	7
Possible/Unknown Injury Crash	14	Possible (complaint of pain/injury)	19
Property Damage Only	28	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	300,852.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	6,685.60	Fatalities/Crash:	0.00
Total Vehicles:	97.00	Injuries/Crash:	0.58
Average (per crash):	2.16	Major Injuries/Crash:	0.00
Total Occupants:	151.00	Minor Injuries/Crash:	0.16
Average (per crash):	3.36	Possible/Unknown Injuries/Crash:	0.42
		1 A STATE	



Major Cause			43
Animal	0	Ran traffic signal	7
Ran stop sign	1	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	1
FTYROW: From stop sign	0	FTYROW: From yield sign	0
FTYROW: Making left turn	6	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	1	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	1
Exceeded authorized speed	0	Improper or erratic lane changing	1
Operating vehicle in an reckless, erratic, ca	1	Followed too close	9
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	1
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	1
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	3	Swerving/Evasive Action	1
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	8
Unknown	1	Not reported	0
Other: No improper action	0		



# Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	1	0	0	0	0	1	0	0	0	0	2
Monday	0	0	0	0	2	1	1	2	1	0	0	0	0	7
Tuesday	0	0	0	0	0	1	3	0	1	0	0	0	0	5
Wednesday	0	0	0	0	0	1	1	1	0	0	1	1	0	5
Thursday	0	0	0	0	0	1	1	3	2	1	0	1	0	9
Friday	0	0	0	1	0	1	1	1	1	1	0	0	0	6
Saturday	0	0	0	0	1	1	4	0	2	3	0	0	0	11
Total	0	0	0	2	3	6	11	7	8	5	1	2	0	45

Manner of Crash Collision	45	Surface Conditions	45
Non-collision (single vehicle)	0	Dry	36
Head-on (front to front)	1	Wet	5
Rear-end (front to rear)	25	Ice/frost	3
Angle, oncoming left turn	5	Snow	1
Broadside (front to side)	7	Slush	0
Sideswipe, same direction	6	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	1	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			97
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	97



Driver Age/Drive	r Gender				
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Tota
< 14	0	0	0	0	C
= 14	0	0	0	0	C
= 15	0	0	0	0	C
= 16	2	0	0	0	2
= 17	2	2	0	0	4
= 18	2	1	0	0	3
= 19	0	2	0	0	2
= 20	1	1	0	0	2
>= 21 and <= 24	3	4	0	0	7
>= 25 and <= 29	5	4	0	0	g
>= 30 and <= 34	4	3	0	0	7
>= 35 and <= 39	1	4	0	0	5
>= 40 and <= 44	2	1	0	0	3
>= 45 and <= 49	0	2	0	0	2
>= 50 and <= 54	1	3	0	0	4
>= 55 and <= 59	5	5	0	0	10
>= 60 and <= 64	8	2	0	0	10
>= 65 and <= 69	5	6	0	0	11
>= 70 and <= 74	3	3	0	0	6
>= 75 and <= 79	1	1	0	0	2
>= 80 and <= 84	2	1	0	0	3
>= 85 and <= 89	0	4	0	0	4
>= 90 and <= 94	0	1	0	0	1
>= 95	0	0	0	0	C
Not reported	0	0	0	0	C
Unknown	0	0	0	0	C
Total	47	50	0	0	97

Drug/Alcohol Related	45
Drug	0
Alcohol (< Statutory)	1
Alcohol (Statutory)	1
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	0
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	43

Alcohol Test Given	97
None	95
Blood	1
Urine	0
Breath	1
Vitreous	0
Refused	0
Not reported	0

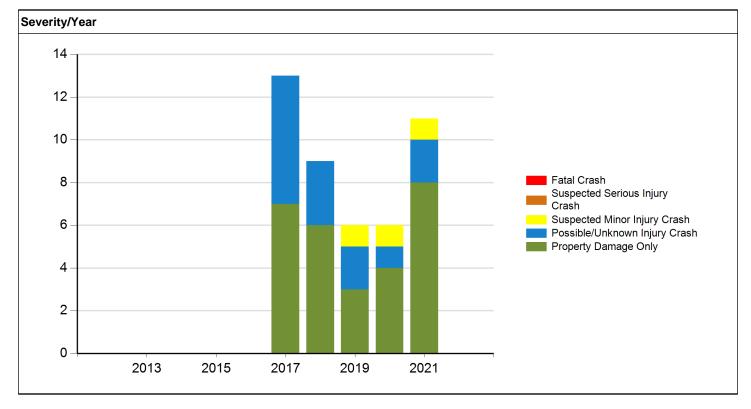
Drug Test Given	97
None	97
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	0

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



# Crash Severity - Annual

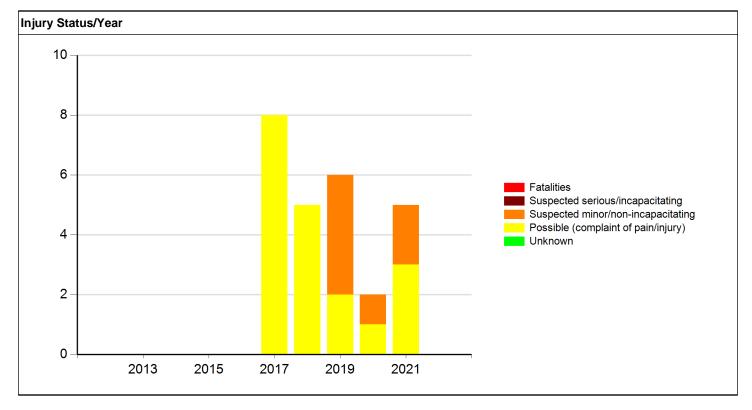
orash oeventy	Annadi					
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	6	7	13
2018	0	0	0	3	6	9
2019	0	0	1	2	3	6
2020	0	0	1	1	4	6
2021	0	0	1	2	8	11
2022	0	0	0	0	0	0
Total	0	0	3	14	28	45





## Injury Status - Annual

injury Status - Annuai							
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown		Total
2012	0	0	0	0	0		0
2013	0	0	0	0	0		0
2014	0	0	0	0	0		0
2015	0	0	0	0	0		0
2016	0	0	0	0	0		0
2017	0	0	0	8	0		8
2018	0	0	0	5	0		5
2019	0	0	4	2	0		6
2020	0	0	1	1	0		2
2021	0	0	2	3	0		5
2022	0	0	0	0	0		0
Total	0	0	7	19	0		26





#### Meeting the following criteria

Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: Non Animal-related

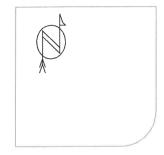
#### Analyst Information

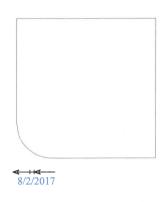
Taft Avenue and IA122 in Mason City 2017-2021 Excluding Animal-Related Crashes

# Hobby Lobby Right-In/Right-Out Collision Diagram, 2017-2021

#### 7 Crashes

Clear

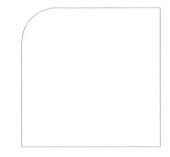




4/23/2020

9/24/2018





- <--- Straight
- ←+ Stopped
- «— Unknown
- <----> Backing
- « ---- Overtaking
- *∝* Sideswipe
- Parked
- Erratic
- $\ll$  Out of control  $\bigcirc$
- ℝ Right turn
- ⊮ Left turn
- 🗩 U-turn

- $\times$  Pedestrian
- $\gtrsim$  Bicycle
- Injury
- Fatality
- Nighttime
- H DUI

- Fixed objects:
- □ General □ Signal

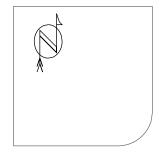
⊠ Tree

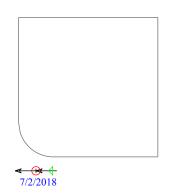
- PoleCurb
- 🗧 Animal
- 3rd vehicle
- \* Extra data

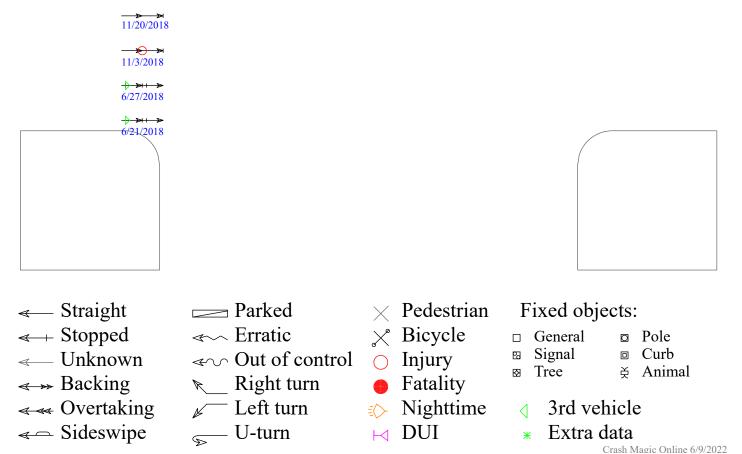
Crash Magic Online 6/9/2022

# HyVee West RIght-In/Right-Out Collision Diagram, 2017-2021

5 Crashes



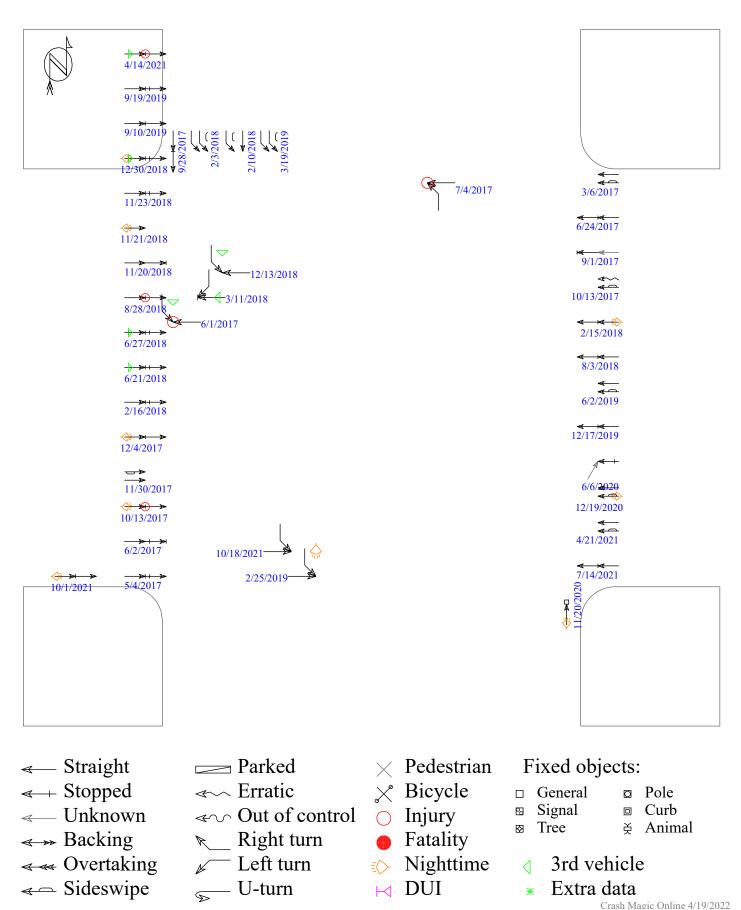




# Grover Ave and IA 122, Collision Diagram, 2017-2021

#### 40 Crashes

Clear



# Intersection or Spot Benefit / Cost Safety Analysis

Iowa DOT Office of Traffic & Safety

	County:	Cerro Gordo	Prepa	red by:	D. Little	Date	e Prepared:	Apr 19, 2	2022
	Intersection:	Grover Avenue and IA	122						
Im	provement								
	-	provement(s):							
		· · · · · ·							
		Estimated Improveme	nt Cost, <b>EC</b>			Estimated	Service Life	, years, Y	
		Other Annual Cost (af		), <b>AC</b>			luction Facto	-	, CRF
	\$-	Present Value Other A	-		4.0%		Rate (time va		
		$OC = \frac{AC}{INT} \left( 1 - \frac{1}{\left( 1 + IN \right)} \right)$	$\overline{T}$	\$	-	Present Va	alue Cost, <b>C</b>	OST = EC	+ OC
Tra	affic Volum	e Data							
	Source:	IA 122 TEAP Study by	Snyder and	Associates, I	aw 13-hour		2019	Date of tra	ffic count
	Daily Enterin	g Vehicles by Approach	n (or AADT / 2	2)					
		947		7,379,5	70 Current	Annual Ent	ering Veh.,	AEV = DE	√ * 365
	9,469	<b>→ 7,440</b>		20,2	18 veh/da	y, Final Yea	ar DEV, <b>FDE</b>	EV	
		2,362		-			Entering Vel	n. Over	
	1.0%	Projected Traffic Grow	/th (0%-10%).	G		Project, <b>TM</b>			
•		Current Daily Entering			TMEV =	$=\frac{ALV}{-G}\left 1-\right $	$-\left(\frac{1+G}{1}\right)^{\mathrm{Y}}$	$/10^{\circ}$	
Cr	ash Data	Current Daily Entering		•		- (	× /)	/	
	2017	First full year>	2021	Last full yea	r	5.0	s, Time Peri	ad T	
		Additional months	2021	Last full yea	u	J.U year	s, Time Fen	ou, <b>i</b>	
	0		.	O Fata			¢ 4 500 000	¢	
	0	Fatal Crashes ——			lities @		\$4,500,000		-
	-				or Injuries @		\$325,000		-
	5	Injury Crashes	<b>→</b>		or Injuries @	0	\$65,000		5,000
	35	Property Damage Onl	v		sible Injuries ed cost per c		\$35,000 \$7,400		5,000
			)	•	er all Propert	y Costs of a	all crashes:	\$ 19	3,871
:	40	Total Crashes, <b>TA</b> =				Total \$ L	oss, LOSS	\$ 57	3,871
	8 00	Current Crashes / Yea	or $\mathbf{A}\mathbf{A} = \mathbf{T}\mathbf{A}/\mathbf{A}$	г		1.08 Cras	shes / MEV,	Crash Rat	e CR
		Cost per Crash, AVC					= TA x 10^6		
	-	Total Expected Crash			\$		ent Value of		
	- ¢	Crashes Avoided First Crash Costs Avoided					ashes, <b>BENE</b>		$(\mathbf{Y})$
	\$ - -	Total Avoided Crashe			BEN	$=\frac{AVC}{(INT)}$	$\times \frac{AAR}{-G} \left(1 - G\right)$	$-\left(\frac{1+G}{1+INT}\right)$	$\overline{r}$ ))
Ве	nefit / Cost	Ratio							
		Benefit : Cost =	\$0	:	\$0	=	-	: 1	

IA 122 & Grover Ave Mason City, IA 115.1000.01M Iowa DOT TEAP Study

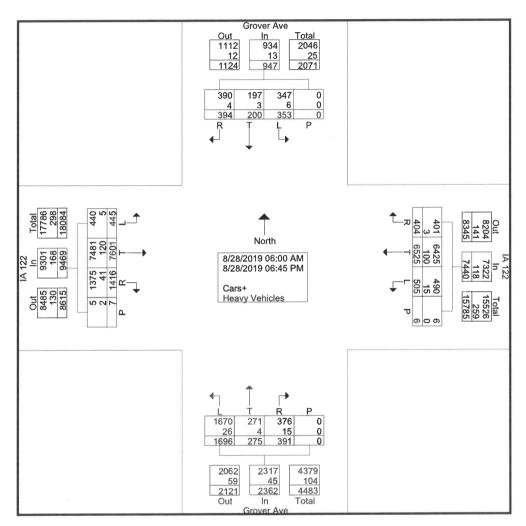
							c	Groups	Printe	d- Cars-	⊥ - Hea	vv Veh	icles								
		G	rover A	ve				IA 122		u oaro	i nea		over A	ve				IA 122			
01.17	1	T	SB	-		1	-	WB	<b>D</b>		1	T	NB				Т	EB	P		
Start Time	L	T 0	R	P 0	App. Total	L 2	T 41	R 1	P 0	App. Total	L 1	T 0	R 0	P 0	App. Total	L 2	40	R 5	0	App. Total 47	Int. Total 92
06:00 AM 06:15 AM	0	-	0	0	0	2	29	1	0	32	7	0	2	0	9	0	34	4	1	39	86
06:15 AM	2 2	0 2	4 5	0	6 9	5	29 71	2	0	78	6	2	0	0	8	3	62	8	0	73	168
06:45 AM	2	0	1	0	3	1	75	3	0	79	11	Ő	5	0	16	1	67	19	Ő	87	185
Total	6	2	10	0	18	10	216	7	0	233	25	2	7	0	34	6	203	36	1	246	531
Total	0	2	10	U	10	10	210	'	0	200	20	2	'	0	04	0	200	00		240	001
07:00 AM	8	1	2	0	11	5	86	6	0	97	9	3	4	0	16	3	65	12	0	80	204
07:15 AM	5	2	6	0	13	4	87	4	0	95	18	1	2	0	21	2	61	11	0	74	203
07:30 AM	6	3	8	0	17	3	125	7	0	135	19	2	7	0	28	3	93	12	0	108	288
07:45 AM	10	1	9	0	20	6	139	2	0	147	26	3	3	0	32	8	120	16	0	144	343
Total	29	7	25	0	61	18	437	19	0	474	72	9	16	0	97	16	339	51	0	406	1038
08:00 AM	4	0	11	0	15	3	97	7	0	107	5	5	8	0	18	4	95	22	0	121	261
08:15 AM	12	3	6	Õ	21	7	92	3	Ō	102	21	5	5	0	31	7	110	17	0	134	288
08:30 AM	9	2	5	Ō	16	5	99	6	Ō	110	16	1	3	0	20	5	106	22	0	133	279
08:45 AM	7	1	7	0	15	7	99	5	0	111	12	3	4	0	19	7	116	13	0	136	281
Total	32	6	29	0	67	22	387	21	0	430	54	14	20	0	88	23	427	74	0	524	1109
09:00 AM	4	5	9	0	18	7	102	5	0	114	22	1	3	0	26	12	100	26	0	138	296
09:15 AM	8	2	7	0	17	11	124	5	0	140	28	2	3	Ő	33	4	151	20	ŏ	175	365
09:30 AM	5	3	, 5	ŏ	13	11	118	7	ŏ	136	25	4	6	ŏ	35	10	143	24	ŏ	177	361
09:45 AM	11	5	6	Ő	22	6	134	6	ō	146	28	6	9	Ō	43	6	109	24	0	139	350
Total	28	15	27	0	70	35	478	23	0	536	103	13	21	0	137	32	503	94	0	629	1372
10:00 AM	4	6	5	0	15	2	109	4	0	115	26	3	9	0	38	6	164	24	0	194	362
10:15 AM	8	6	4	0	18	7	130	7	0	144	20	6	9	ŏ	35	12	158	34	ĭ	205	402
10:30 AM	6	4	3	ŏ	13	17	133	9	ŏ	159	32	3 3	7	ŏ	42	11	148	15	0 0	174	388
10:45 AM	š	0	8	Ő	11	4	138	6	ō	148	40	7	8	Ō	55	6	185	34	Ō	225	439
Total	21	16	20	0	57	30	510	26	0	566	118	19	33	0	170	35	655	107	1	798	1591
11:00 AM	3	6	9	0	18	14	141	7	0	162	36	5	5	0	46	14	154	31	0	199	425
11:15 AM	4	4	7	Ő	15	10	157	5	ō	172	37	8	5	0	50	6	156	38	0	200	437
11:30 AM	13	5	9	ŏ	27	14	146	9	ō	169	37	7	13	Ō	57	12	192	29	0	233	486
11:45 AM	10	4	7	Ō	21	20	157	13	0	190	33	11	12	0	56	18	185	42	0	245	512
Total	30	19	32	0	81	58	601	34	0	693	143	31	35	0	209	50	687	140	0	877	1860
12:00 PM	12	6	8	0	26	23	149	13	0	185	38	15	19	0	72	26	206	36	0	268	551
12:15 PM	7	6	11	ŏ	24	26	154	19	ŏ	199	38	6	17	ŏ	61	28	178	35	ŏ	241	525
12:30 PM	10	4	14	ŏ	28	14	152	13	ŏ	179	32	11	15	ŏ	58	-9	180	36	Ő	225	490
12:45 PM	5	9	16	Ő	30	19	152	5	ō	176	48	9	16	Ō	73	9	171	37	1	218	497
Total	34	25	49	0	108	82	607	50	0	739	156	41	67	0	264	72	735	144	1	952	2063
01:00 PM	13	6	8	0	27	14	130	10	0	154	48	8	19	0	75	13	170	31	1	215	471
01:00 PM	13	6 4	0 15	0	32	6	173	6	0	185	40 51	4	7	0	62	7	185	33	0	215	504
01:30 PM	12	4	10	0	26	15	119	18	ő	152	49	9	12	ŏ	70	10	183	26	0	219	467
01:45 PM	8	6	11	Ő	25	6	148	6	ŏ	160	54	7	17	ŏ	78	11	188	28	ŏ	227	490
Total	46	20	44	0	110	41	570	40	Ö	651	202	28	55	0	285	41	726	118	1	886	1932
02:00 PM	E	6	8	0	19	11	143	7	3	164	36	3	11	0	50	14	188	23	1	226	459
02:00 PM 02:15 PM	5 6	0	0 14	0	20	10	151	8	0	169	36 43	4	7	0	54	9	154	23	0	185	439
02:30 PM	9	9	6	0	20	7	173	11	ő	191	32	6	2	ŏ	40	8	168	30	0	206	461
02:30 PM 02:45 PM	8	3	7	Ő	18	6	144	6	0	156	52	7	14	ŏ	73	6	164	32	Ő	202	449
Total	28	18	35	0	81	34	611	32	3	680	163	20	34	Ő	217	37	674	107	1	819	1797
03:00 PM	7	6	7	0	20	15	165	5	3	188	31	7	5	0	43	3	148	45	0	196	447
03:00 PM 03:15 PM	2	ъ З	8	0	13	11	117	3	0	131	44	5	4	0	53	5	189	35	0	229	426
03:30 PM	6	7	5	0	18	10	186	4	ő	200	50	6	10	ŏ	66	9	192	40	Ő	241	525
03:45 PM	10	2	7	Ő	19	17	140	11	Ő	168	40	10	10	ŏ	60	10	199	41	ŏ	250	497
Total	25	18	27	0	70	53	608	23	3	687	165	28	29	0	222	27	728	161	0	916	1895
04:00 PM	6	5	8	0	19	8	157	11	0	176	46	7	3	0	56	4	207	32	0	243	494
07.00 1 101	0	5	0	0	10	0	,	• •	0		-0	,			001	-		-	5	- 10	1.01

IA 122 & Grover Ave Mason City, IA 115.1000.01M Iowa DOT TEAP Study

							C	Groups	Printe	d- Cars	+ - Hea	avv Ve	hicles								
		G	rover A	ve				IA 122					rover A	ve				IA 12	2		
			SB					WB					NB					EB			
Start Time	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	L	Т	R	P	App. Total	Int. Total
04:15 PM	4	2	6	0	12	12	135	9	0	156	43	10	8	0	61	6	209	37	0	252	481
04:30 PM	4	5	8	0	17	10	145	11	0	166	45	4	6	0	55	6	219	43	0	268	506
04:45 PM	8	4	6	0	18	11	132	12	0	155	42	6	7	0	55	9	189	54	1	253	481
Total	22	16	28	0	66	41	569	43	0	653	176	27	24	0	227	25	824	166	1	1016	1962
05:00 PM	8	5	9	0	22	15	134	11	0	160	53	5	6	0	64	11	189	40	1	241	487
05:15 PM	11	6	3	0	20	10	138	12	0	160	52	2	8	0	62	11	173	36	0	220	462
05:30 PM	11	3	17	0	31	12	155	15	0	182	49	10	12	0	71	15	151	26	0	192	476
05:45 PM	3	6	6	0	15	9	116	9	0	134	34	6	6	0	46	14	138	31	0	183	378
Total	33	20	35	0	88	46	543	47	0	636	188	23	32	0	243	51	651	133	1	836	1803
06:00 PM	4	5	10	0	19	14	107	3	0	124	38	4	6	0	48	10	137	17	0	164	355
06:15 PM	9	4	5	0	18	7	106	21	0	134	38	3	7	0	48	8	106	24	0	138	338
06:30 PM	1	2	11	0	14	7	97	6	0	110	26	6	3	0	35	5	108	19	0	132	291
06:45 PM	5	7	7	0	19	7	78	9	0	94	29	7	2	0	38	7	98	25	0	130	281
Total	19	18	33	0	70	35	388	39	0	462	131	20	18	0	169	30	449	85	0	564	1265
Grand Total	353	200	394	0	947	505	6525	404	6	7440	1696	275	391	0	2362	445	7601	1416	7	9469	20218
Apprch %	37.3	21.1	41.6	0		6.8	87.7	5.4	0.1		71.8	11.6	16.6	0		4.7	80.3	15	0.1		
Total %	1.7	1	1.9	0	4.7	2.5	32.3	2	0	36.8	8.4	1.4	1.9	0	11.7	2.2	37.6	7	0	46.8	
Cars+	347	197	390	0	934	490	6425	401	6	7322	1670	271	376	0	2317	440	7481	1375	5	9301	19874
% Cars+	98.3	98.5	99	0	98.6	97	98.5	99.3	100	98.4	98.5	98.5	96.2	0	98.1	98.9	98.4	97.1	71.4	98.2	98.3
Heavy Vehicles	6	3	4	0	13	15	100	3	0	118	26	4	15	0	45	5	120	41	2	168	344
% Heavy Vehicles	1.7	1.5	1	0	1.4	3	1.5	0.7	0	1.6	1.5	1.5	3.8	0	1.9	1.1	1.6	2.9	28.6	1.8	1.7

# **Turning Movement Count Summary**

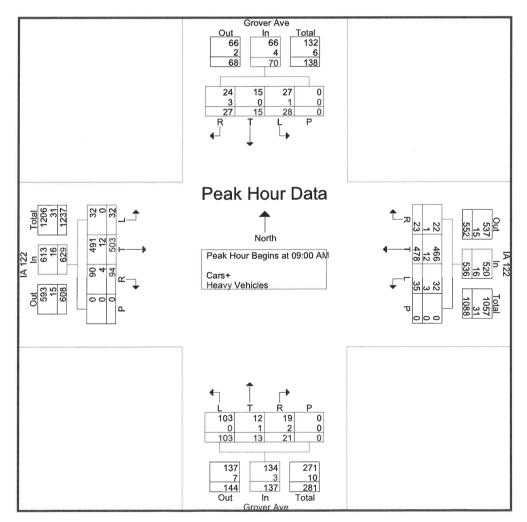
IA 122 & Grover Ave Mason City, IA 115.1000.01M Iowa DOT TEAP Study



# **Turning Movement Count Summary**

IA 122 & Grover Ave Mason City, IA 115.1000.01M Iowa DOT TEAP Study

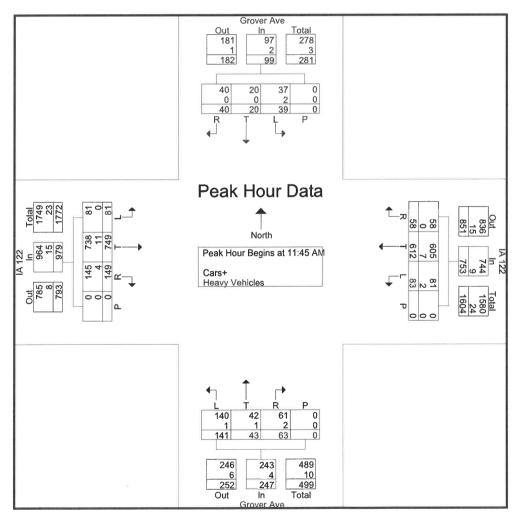
		G	rover A SB	lve				IA 122 WB	2			G	rover / NB	Ave				IA 12 EB	2		
Start Time	L	Т	R	P	App. Total	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	Int. Total
Peak Hour Ar	nalysis	From (	6:00 A	M to 09	9:45 AM	- Peak	(1 of 1														
Peak Hour for	r Entire	Inters	ection l	Begins	at 09:00	MA (															
09:00 AM	4	5	9	0	18	7	102	5	0	114	22	1	3	0	26	12	100	26	0	138	296
09:15 AM	8	2	7	0	17	11	124	5	0	140	28	2	3	0	33	4	151	20	0	175	365
09:30 AM	5	3	5	0	13	11	118	7	0	136	25	4	6	0	35	10	143	24	0	177	361
09:45 AM	11	5	6	0	22	6	134	6	0	146	28	6	9	0	43	6	109	24	0	139	350
Total Volume	28	15	27	0	70	35	478	23	0	536	103	13	21	0	137	32	503	94	0	629	1372
% App. Total	40	21.4	38.6	0		6.5	89.2	4.3	0		75.2	9.5	15.3	0		5.1	80	14.9	0		
PHF	.636	.750	.750	.000	.795	.795	.892	.821	.000	.918	.920	.542	.583	.000	.797	.667	.833	.904	.000	.888	.940
Cars+	27	15	24	0	66	32	466	22	0	520	103	12	19	0	134	32	491	90	0	613	1333
% Cars+	96.4	100	88.9	0	94.3	91.4	97.5	95.7	0	97.0	100	92.3	90.5	0	97.8	100	97.6	95.7	0	97.5	97.2
Heavy Vehicles	1	0	3	0	4	3	12	1	0	16	0	1	2	0	3	0	12	4	0	16	39
% Heavy Vehicles	3.6	0	11.1	0	5.7	8.6	2.5	4.3	0	3.0	0	7.7	9.5	0	2.2	0	2.4	4.3	0	2.5	2.8



# **Turning Movement Count Summary**

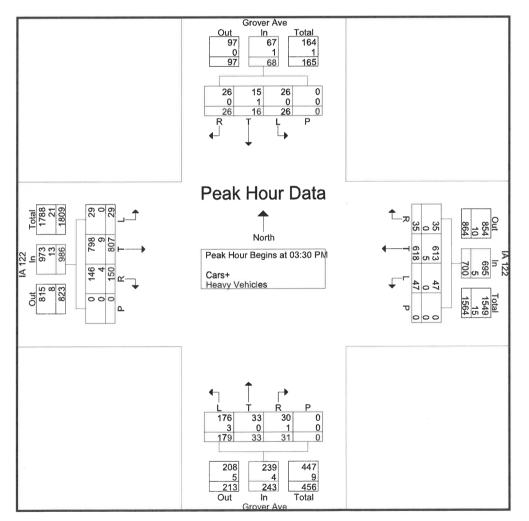
IA 122 & Grover Ave Mason City, IA 115.1000.01M Iowa DOT TEAP Study

		G	rover A	Ave				IA 122	2			G	rover /	Ave				IA 122	2		
			SB					WB					NB					EB			
Start Time	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	Int. Total
Peak Hour Ar	nalysis	From 1	0:00 A	M to 0	1:45 PM	- Peak	(1 of 1														
Peak Hour for	r Entire	Inters	ection l	Begins	at 11:45	5 AM															
11:45 AM	10	4	7	0	21	20	157	13	0	190	33	11	12	0	56	18	185	42	0	245	512
12:00 PM	12	6	8	0	26	23	149	13	0	185	38	15	19	0	72	26	206	36	0	268	551
12:15 PM	7	6	11	0	24	26	154	19	0	199	38	6	17	0	61	28	178	35	0	241	525
12:30 PM	10	4	14	0	28	14	152	13	0	179	32	11	15	0	58	9	180	36	0	225	490
Total Volume	39	20	40	0	99	83	612	58	0	753	141	43	63	0	247	81	749	149	0	979	2078
% App. Total	39.4	20.2	40.4	0		11	81.3	7.7	0		57.1	17.4	25.5	0		8.3	76.5	15.2	0		
PHF	.813	.833	.714	.000	.884	.798	.975	.763	.000	.946	.928	.717	.829	.000	.858	.723	.909	.887	.000	.913	.943
Cars+	37	20	40	0	97	81	605	58	0	744	140	42	61	0	243	81	738	145	0	964	2048
% Cars+	94.9	100	100	0	98.0	97.6	98.9	100	0	98.8	99.3	97.7	96.8	0	98.4	100	98.5	97.3	0	98.5	98.6
Heavy Vehicles	2	0	0	0	2	2	7	0	0	9	1	1	2	0	4	0	11	4	0	15	30
% Heavy Vehicles	5.1	0	0	0	2.0	2.4	1.1	0	0	1.2	0.7	2.3	3.2	0	1.6	0	1.5	2.7	0	1.5	1.4



IA 122 & Grover Ave Mason City, IA 115.1000.01M Iowa DOT TEAP Study

		G	rover A SB	Ve				IA 122 WB	2			G	rover / NB	Ave				IA 122 EB	2		
Start Time	L	T	R	P	App. Total	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	L	Т	R	Р	App. Total	Int. Total
Peak Hour Ar	nalysis	From (	02:00 P	M to Of	6:45 PM	- Peał	(1 of 1														
Peak Hour for	r Entire	Inters	ection I	Begins	at 03:30	PM									i i i						
03:30 PM	6	7	5	0	18	10	186	4	0	200	50	6	10	0	66	9	192	40	0	241	525
03:45 PM	10	2	7	0	19	17	140	11	0	168	40	10	10	0	60	10	199	41	0	250	497
04:00 PM	6	5	8	0	19	8	157	11	0	176	46	7	3	0	56	4	207	32	0	243	494
04:15 PM	4	2	6	0	12	12	135	9	0	156	43	10	8	0	61	6	209	37	0	252	481
Total Volume	26	16	26	0	68	47	618	35	0	700	179	33	31	0	243	29	807	150	0	986	1997
% App. Total	38.2	23.5	38.2	0		6.7	88.3	5	0		73.7	13.6	12.8	0		2.9	81.8	15.2	0		
PHF	.650	.571	.813	.000	.895	.691	.831	.795	.000	.875	.895	.825	.775	.000	.920	.725	.965	.915	.000	.978	.951
Cars+	26	15	26	0	67	47	613	35	0	695	176	33	30	0	239	29	798	146	0	973	1974
% Cars+	100	93.8	100	0	98.5	100	99.2	100	0	99.3	98.3	100	96.8	0	98.4	100	98.9	97.3	0	98.7	98.8
Heavy Vehicles	0	1	0	0	1	0	5	0	0	5	3	0	1	0	4	0	9	4	0	13	23
% Heavy Vehicles	0	6.3	0	0	1.5	0	0.8	0	0	0.7	1.7	0	3.2	0	1.6	0	1.1	2.7	0	1.3	1.2



COMA	Iowa Crash A Quick 2017	Report	
Crash Severity	40	Injury Status Summary	10
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	0
Suspected Minor Injury Crash	1	Suspected minor/non-incapacitating	1
Possible/Unknown Injury Crash	4	Possible (complaint of pain/injury)	9
Property Damage Only	35	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	193,871.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	4,846.78	Fatalities/Crash:	0.00
Total Vehicles:	86.00	Injuries/Crash:	0.25
Average (per crash):	2.15	Major Injuries/Crash:	0.00
Total Occupants:	120.00	Minor Injuries/Crash:	0.03
Average (per crash):	3.00	Possible/Unknown Injuries/Crash:	0.23
			1 States
TSHORE			



Major Cause			37
Animal	0	Ran traffic signal	4
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	0	FTYROW: From yield sign	0
FTYROW: Making left turn	0	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	0
FTYROW: Other	1	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	0
Aggressive driving/road rage	0	Driving too fast for conditions	0
Exceeded authorized speed	0	Improper or erratic lane changing	2
Operating vehicle in an reckless, erratic, ca	1	Followed too close	8
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	1
Driver Distraction: Inattentive/lost in thou	2	Driver Distraction: Other interior distracti	1
Driver Distraction: Exterior distraction	0	Ran off road - right	1
Ran off road - straight	0	Ran off road - left	0
Lost control	4	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	0
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	8
Unknown	4	Not reported	0
Other: No improper action	0		



### Time of Day/Day of Week

Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	1	0	1	0	0	1	0	0	3
Monday	0	0	0	0	0	1	0	1	1	1	0	0	0	4
Tuesday	0	0	0	0	1	1	1	3	0	0	0	0	0	6
Wednesday	0	0	1	0	0	1	1	1	0	0	1	0	0	5
Thursday	0	0	0	0	2	2	1	0	2	1	0	0	0	8
Friday	0	0	0	0	0	1	3	1	1	1	1	1	0	9
Saturday	0	0	0	0	0	1	2	1	0	1	0	0	0	5
Total	0	0	1	0	3	8	8	8	4	4	3	1	0	40

Manner of Crash Collision	40	Surface Conditions	40
Non-collision (single vehicle)	2	Dry	26
Head-on (front to front)	0	Wet	13
Rear-end (front to rear)	23	Ice/frost	0
Angle, oncoming left turn	0	Snow	1
Broadside (front to side)	5	Slush	0
Sideswipe, same direction	9	Mud, dirt	0
Sideswipe, opposite direction	0	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	0	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	1	Other	0
		Unknown	0

Fixed Object Struck			86
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	0
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	1
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	85



Driver Age/Drive	r Gender				
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total
< 14	0	0	0	0	0
= 14	0	0	0	0	0
= 15	0	0	0	0	0
= 16	1	1	0	0	2
= 17	1	0	0	0	1
= 18	1	1	0	0	2
= 19	1	1	0	0	2
= 20	3	1	0	0	4
>= 21 and <= 24	2	2	0	0	4
>= 25 and <= 29	2	6	1	0	9
>= 30 and <= 34	5	4	0	0	9
>= 35 and <= 39	3	1	0	0	4
>= 40 and <= 44	3	4	0	0	7
>= 45 and <= 49	4	2	0	0	6
>= 50 and <= 54	4	3	1	0	8
>= 55 and <= 59	3	2	0	0	5
>= 60 and <= 64	2	1	0	0	3
>= 65 and <= 69	5	2	0	0	7
>= 70 and <= 74	2	2	0	0	4
>= 75 and <= 79	1	1	0	0	2
>= 80 and <= 84	1	2	0	0	3
>= 85 and <= 89	1	0	0	0	1
>= 90 and <= 94	0	0	0	0	0
>= 95	0	0	0	0	0
Not reported	0	0	0	0	0
Unknown	0	0	0	0	0
Total	45	36	2	0	83

Drug/Alcohol Related	40
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	1
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	1
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	38

Alcohol Test Given	86
None	81
Blood	0
Urine	0
Breath	1
Vitreous	0
Refused	1
Not reported	3

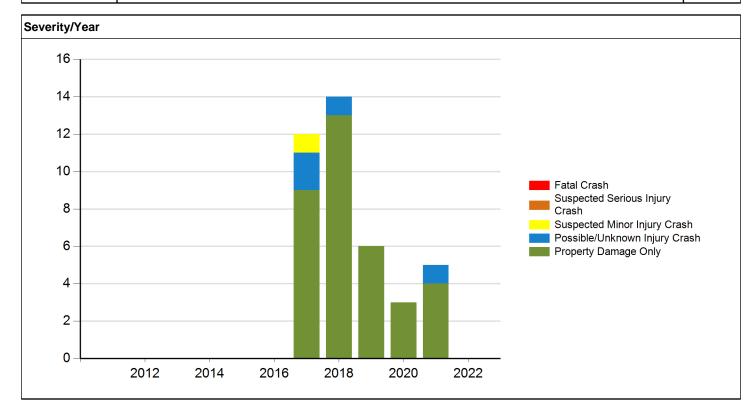
Drug Test Given	86
None	83
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	3

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



## Crash Severity - Annual

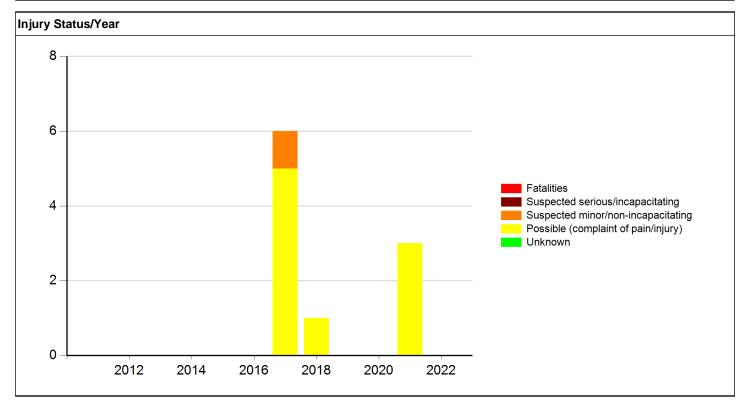
	Annua					
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	1	2	9	12
2018	0	0	0	1	13	14
2019	0	0	0	0	6	6
2020	0	0	0	0	3	3
2021	0	0	0	1	4	5
2022	0	0	0	0	0	0
Total	0	0	1	4	35	40





### Injury Status - Annual

Injury Status - A	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	1	5	0	6
2018	0	0	0	1	0	1
2019	0	0	0	0	0	0
2020	0	0	0	0	0	0
2021	0	0	0	3	0	3
2022	0	0	0	0	0	0
Total	0	0	1	9	0	10





### Meeting the following criteria

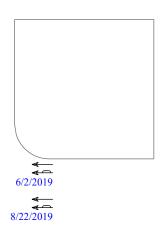
Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: None

### Analyst Information

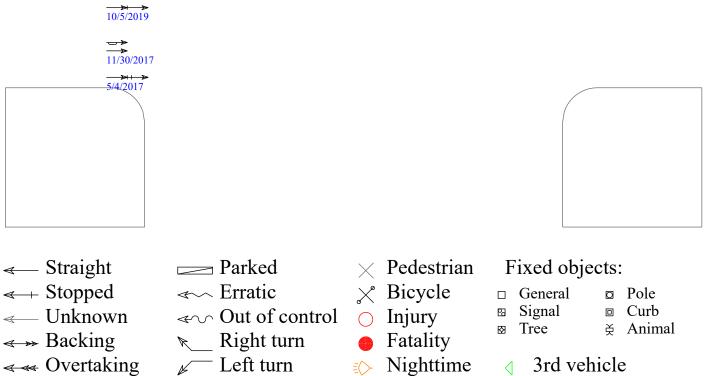
Grover Avenue and IA 122 in Mason City 2017-2021 Crash History

# Ashley Furniture RIght-In/Right-Out Collision Diagram

5 Crashes



Clear

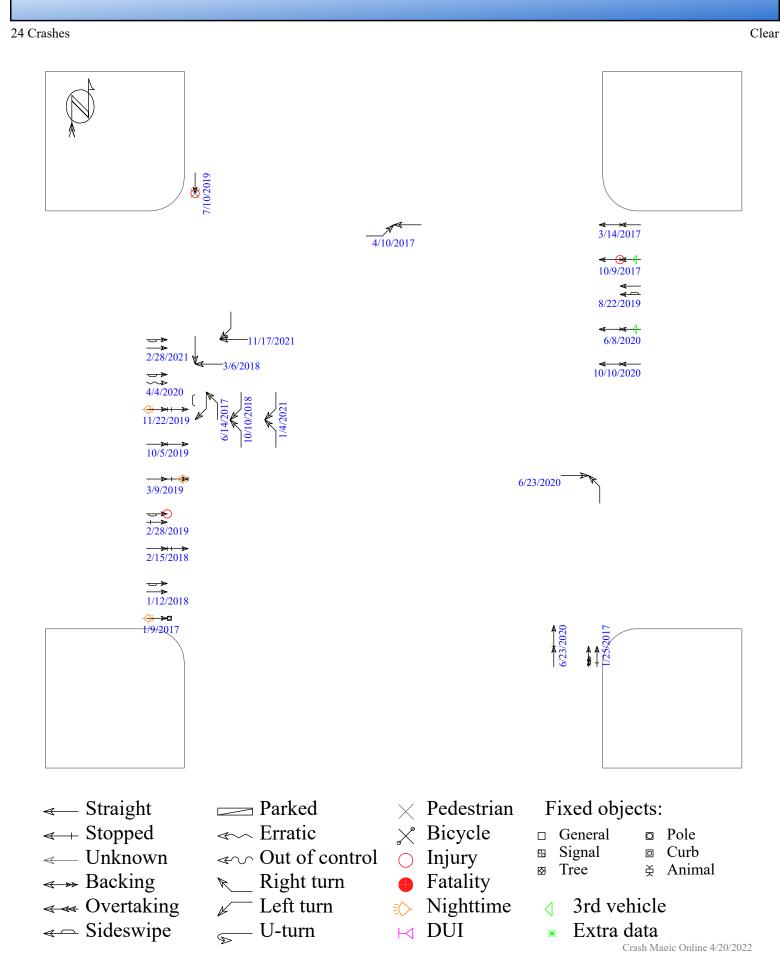


- ≪ Sideswipe
- 🗩 U-turn
- H DUI
- 3rd vehicle Extra data ж

Crash Magic Online 6/9/2022

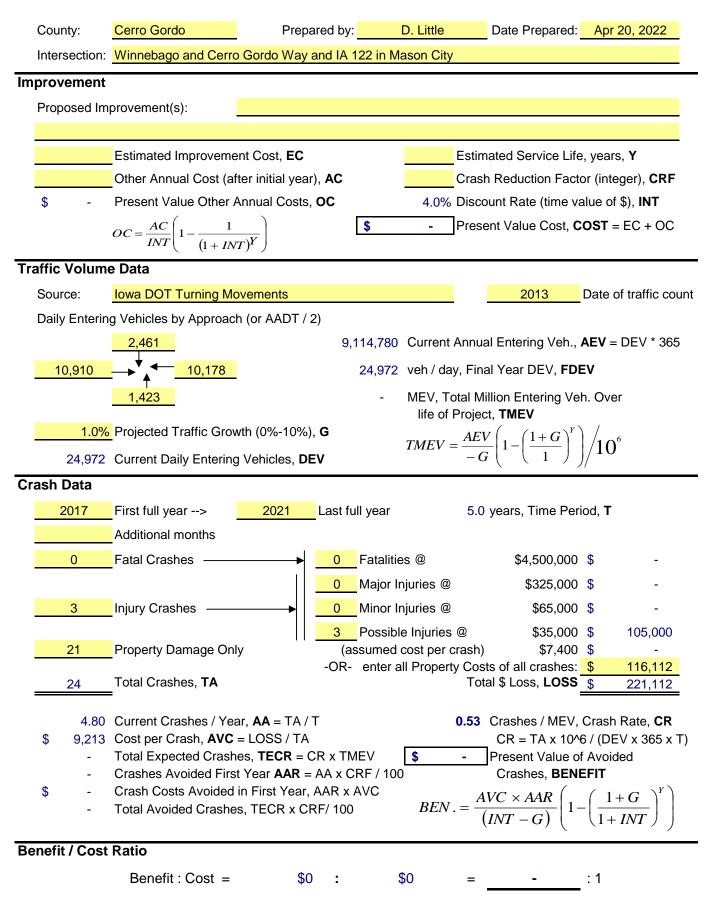
Crash Magic Online

# Winnebago/Cerro Gordo Way and IA 122, 2017-2021 Collision Diagram



# Intersection or Spot Benefit / Cost Safety Analysis

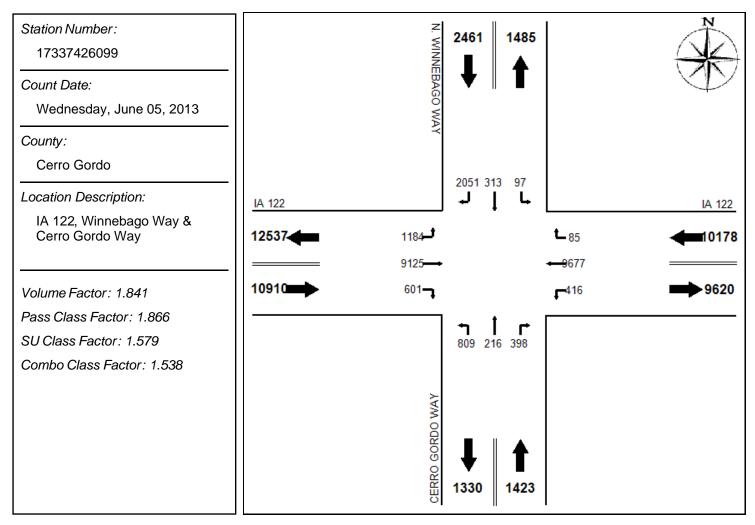
Iowa DOT Office of Traffic & Safety



# Iowa Department of Transportation

## Turning Movement Traffic Count Summary

Annualized Daily Traffic For All Vehicles



### **Raw Data-All Vehicles:**

	1	N Leg	eg E Leg					S Leg		W Leg		
	L	T	R	L	T	R	L	T	R	L	T	R
07:00	6	17	87	15	355	2	28	8	11	48	523	36
08:00	4	14	126	16	490	6	31	6	16	44	495	26
11:00	13	16	154	29	796	13	76	12	35	86	740	50
12:00	8	29	150	63	969	4	74	24	53	102	871	62
15:00	6	33	166	29	875	8	74	23	27	117	808	48
16:00	10	29	225	41	960	6	82	22	41	144	753	59
17:00	5	30	195	30	760	7	69	21	31	95	720	42

CODOT	Quick	Analysis Tool Report -2021	
Crash Severity	24	Injury Status Summary	3
Fatal Crash	0	Fatalities	0
Suspected Serious Injury Crash	0	Suspected serious/incapacitating	0
Suspected Minor Injury Crash	0	Suspected minor/non-incapacitating	0
Possible/Unknown Injury Crash	3	Possible (complaint of pain/injury)	3
Property Damage Only	21	Unknown	0
Property/Vehicles/Occupants		Average Severity	
Property Damage Total (dollars):	116,112.00	Fatalities/Fatal Crash:	0.00
Average (per crash dollars):	4,838.00	Fatalities/Crash:	0.00
Total Vehicles:	49.00	Injuries/Crash:	0.13
Average (per crash):	2.04	Major Injuries/Crash:	0.00
Total Occupants:	70.00	Minor Injuries/Crash:	0.00
Average (per crash):	2.92	Possible/Unknown Injuries/Crash:	0.13



Major Cause			20
Animal	0	Ran traffic signal	2
Ran stop sign	0	Failed to yield to emergency vehicle	0
FTYROW: At uncontrolled intersection	0	FTYROW: Making right turn on red signal	0
FTYROW: From stop sign	0	FTYROW: From yield sign	0
FTYROW: Making left turn	1	FTYROW: From driveway	0
FTYROW: From parked position	0	FTYROW: To pedestrian	1
FTYROW: Other	1	Drove around RR grade crossing gates	0
Disregarded RR Signal	0	Crossed centerline (undivided)	0
Crossed median (divided)	0	Traveling wrong way or on wrong side of road	1
Aggressive driving/road rage	0	Driving too fast for conditions	1
Exceeded authorized speed	0	Improper or erratic lane changing	1
Operating vehicle in an reckless, erratic, ca	1	Followed too close	4
Passing: On wrong side	0	Passing: Where prohibited by signs/markings	0
Passing: With insufficient distance/inadequa	0	Passing: Through/around barrier	0
Passing: Other passing	0	Made improper turn	0
Driver Distraction: Manual operation of an e	0	Driver Distraction: Talking on a hand-held d	0
Driver Distraction: Talking on a hands free	0	Driver Distraction: Adjusting devices (radio	0
Driver Distraction: Other electronic device	0	Driver Distraction: Passenger	0
Driver Distraction: Unrestrained animal	0	Driver Distraction: Reaching for object(s)/f	0
Driver Distraction: Inattentive/lost in thou	0	Driver Distraction: Other interior distracti	0
Driver Distraction: Exterior distraction	0	Ran off road - right	0
Ran off road - straight	0	Ran off road - left	0
Lost control	1	Swerving/Evasive Action	0
Over correcting/over steering	0	Failed to keep in proper lane	0
Failure to signal intentions	0	Traveling on prohibited traffic way	0
Vehicle stopped on railroad tracks	0	Other: Vision obstructed	2
Other: Improper operation	0	Other: Disregarded warning sign	0
Other: Disregarded signs/road markings	0	Other: Illegal off-road driving	0
Downhill runaway	0	Separation of units	0
Towing improperly	0	Cargo/equipment loss or shift	0
Equipment failure	0	Oversized load/vehicle	0
Other: Getting off/out of vehicle	0	Failure to dim lights/have lights on	0
Improper backing	0	Improper starting	0
Illegally parked/unattended	0	Driving less than the posted speed limit	0
Operator inexperience	0	Other	3
Unknown	1	Not reported	0
Other: No improper action	0		



## Time of Day/Day of Week

	-													
Day of Week	12 AM to 2 AM	2 AM to 4 AM	4 AM to 6 AM	6 AM to 8 AM	8 AM to 10 AM	10 AM to Noon	Noon to 2 PM	2 PM to 4 PM	4 PM to 6 PM	6 PM to 8 PM	8 PM to 10 PM	10 PM to 12 AM	Not reporte d	Total
Sunday	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Monday	0	0	0	0	0	2	0	0	2	0	1	0	0	5
Tuesday	0	0	0	0	0	2	0	1	1	0	0	0	0	4
Wednesday	0	0	0	0	1	2	0	2	0	0	0	0	0	5
Thursday	0	0	0	1	0	1	0	0	1	0	0	0	0	3
Friday	0	0	0	0	0	0	1	0	1	0	0	0	0	2
Saturday	0	0	0	0	0	0	0	3	0	0	0	1	0	4
Total	0	0	0	1	1	7	1	7	5	0	1	1	0	24

Manner of Crash Collision	24	Surface Conditions	24
Non-collision (single vehicle)	2	Dry	14
Head-on (front to front)	1	Wet	5
Rear-end (front to rear)	9	Ice/frost	2
Angle, oncoming left turn	1	Snow	0
Broadside (front to side)	3	Slush	3
Sideswipe, same direction	6	Mud, dirt	0
Sideswipe, opposite direction	1	Water (standing or moving)	0
Rear to rear	0	Sand	0
Rear to side	1	Oil	0
Not reported	0	Gravel	0
Other	0	Not reported	0
Unknown	0	Other	0
		Unknown	0

Fixed Object Struck			49
Bridge overhead structure	0	Bridge pier or support	0
Bridge/bridge rail parapet	0	Curb/island/raised median	0
Ditch	0	Embankment	0
Ground	0	Culvert/pipe opening	0
Guardrail - face	0	Guardrail - end	0
Concrete traffic barrier (median or right sid	0	Other traffic barrier	0
Cable barrier	0	Impact attenuator/crash cushion	0
Utility pole/light support	0	Traffic sign support	1
Traffic signal support	0	Other post/pole/support	0
Fire hydrant	0	Mailbox	0
Tree	0	Landscape/shrubbery	0
Snow bank	0	Fence	0
Wall	0	Building	0
Other fixed object	0	None (no fixed object struck)	48



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Driver Age/Driver Gender							
Driver Age - 5 year Bins	Female	Male	Not reported	Unknown	Total		
< 14	0	0	0	0	0		
= 14	0	0	0	0	0		
= 15	0	0	0	0	0		
= 16	0	0	0	0	0		
= 17	0	1	0	0	1		
= 18	1	2	0	0	3		
= 19	0	0	0	0	0		
= 20	0	0	0	0	0		
>= 21 and <= 24	1	5	0	0	6		
>= 25 and <= 29	3	4	0	0	7		
>= 30 and <= 34	3	0	0	0	3		
>= 35 and <= 39	2	3	0	0	5		
>= 40 and <= 44	1	3	0	0	4		
>= 45 and <= 49	1	0	0	0	1		
>= 50 and <= 54	0	2	0	0	2		
>= 55 and <= 59	3	1	0	0	4		
>= 60 and <= 64	3	2	0	0	5		
>= 65 and <= 69	0	1	0	0	1		
>= 70 and <= 74	4	0	0	0	4		
>= 75 and <= 79	0	0	0	0	0		
>= 80 and <= 84	1	0	0	0	1		
>= 85 and <= 89	0	1	0	0	1		
>= 90 and <= 94	0	0	0	0	0		
>= 95	0	0	0	0	0		
Not reported	0	0	0	0	0		
Unknown	0	0	0	0	0		
Total	23	25	0	0	48		

Drug/Alcohol Related	24
Drug	0
Alcohol (< Statutory)	0
Alcohol (Statutory)	0
Drug and Alcohol (< Statutory)	0
Drug and Alcohol (Statutory)	0
Refused	1
Under Influence of Alcohol/Drugs/Medications	0
None Indicated	23

Alcohol Test Given	49
None	47
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	1
Not reported	1

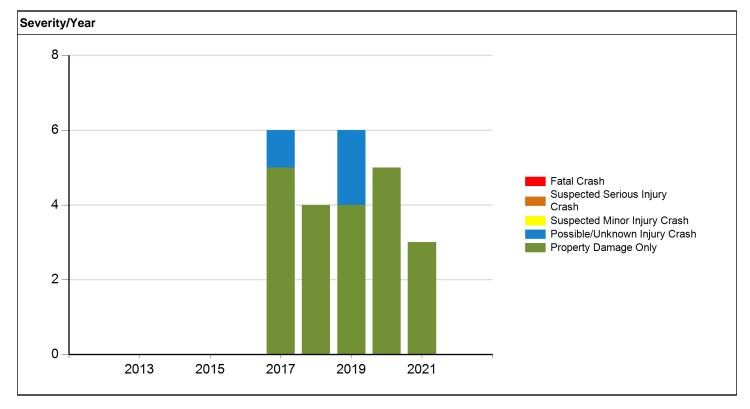
Drug Test Given	49
None	48
Blood	0
Urine	0
Breath	0
Vitreous	0
Refused	0
Not reported	1

Drug Test Result	0
Negative	0
Cannabis	0
Central Nervous System depressants	0
Central Nervous System stimulants	0
Hallucinogens	0
Inhalants	0
Narcotic Analgesics	0
Dissociative Anesthetic (PCP)	0
Prescription Drug	0
Not reported	0
Other	0



## Crash Severity - Annual

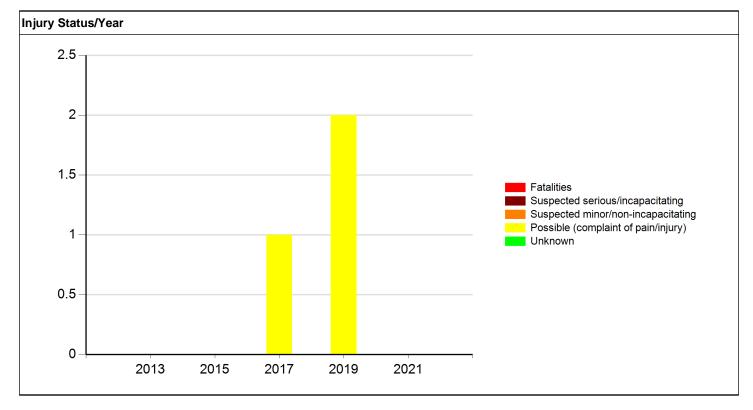
orasii Gevenity -	Annua					
Crash Year	Fatal Crash	Suspected Serious Injury Crash	Suspected Minor Injury Crash	Possible/Unknown Injury Crash	Property Damage Only	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	1	5	6
2018	0	0	0	0	4	4
2019	0	0	0	2	4	6
2020	0	0	0	0	5	5
2021	0	0	0	0	3	3
2022	0	0	0	0	0	0
Total	0	0	0	3	21	24





## Injury Status - Annual

Injury Status - A	nnuai					
Crash Year	Fatalities	Suspected serious/incapac itating	Suspected minor/non- incapacitating	Possible (complaint of pain/injury)	Unknown	Total
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	0	0	0	0	0	0
2015	0	0	0	0	0	0
2016	0	0	0	0	0	0
2017	0	0	0	1	0	1
2018	0	0	0	0	0	0
2019	0	0	0	2	0	2
2020	0	0	0	0	0	0
2021	0	0	0	0	0	0
2022	0	0	0	0	0	0
Total	0	0	0	3	0	3





### Meeting the following criteria

Jurisdiction: Statewide Year: 2017, 2018, 2019, 2020, 2021 Map Selection: Yes Filter: None

### Analyst Information

Winnebago Way/Cerro Gordo Way and IA 122 in Mason City 2017-2021 Crash History