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**Section 1: Executive Summary**

**Most Significant Impact Events**

Planned Event		
<b>Date: 9/7, MD</b>	<b>Location:</b> Various I-70 Interchanges	<b>Event Detail:</b> Procession for body of fallen marine Jared Schmitz taken from Lambert Airport to Baue St Charles created large gatherings at multiple interchanges along I-70. Signal timing changes implemented at Cave Springs and Zumbuhl signals for the changing traffic caused by the event.
Unplanned Event		
<b>Date: 8/26, AM</b>	<b>Location:</b> I-70 EB before TR Hughes Blvd	<b>Event Detail:</b> 10 vehicle accident with extrication. All vehicles towed. Lanes closed for over 1 hour, queue estimated at 4.7 miles. Signal timings adjusted on TR Hughes Blvd Route K, Bryan Rd, and Lake St Louis Blvd to EB AM Peak AMI plan for diverting traffic.

**Operator Summary**

July - September had a **total of 183 incidents** impacting mainlines of major arterials within St Charles County. Of these incidents, **68 occurred during the weekday commuter peak times**. The GGL operator performed signal timing adjustments to facilitate diversions and **mitigate congestion and backups for 11 of these incidents**.









**Top 5 Arterial Congestion Locations – July - September 2020 vs. 2021**









	Arterial Congestion Locations 2020	Base Impact	Average Queue Length (miles)	Average Daily Duration	Total duration
1	NB 5 <sup>th</sup> St @ I-70	12,577	0.34	6 h 47 m	26 d 7 h 12 m
2	NB Wentzville Pkwy @ W Pearce Blvd	11,516	0.17	14 h 5m	54 d 15 h 3 m
3	NB Mid Rivers Mall Dr. @ Central School Rd.	9,794	0.42	4 h 29 m	17 d 10 h 1 m
4	SB Mid Rivers Mall Dr @ I-70	7,778	0.17	8 h 14 m	31 d 23 h 7 m
5	SB Bryan Rd @ I-70	4,308	0.16	4 h 55 m	19 d 1 h 54 m

	Arterial Congestion Locations 2021	Base Impact	Average Queue Length (miles)	Average Daily Duration	Total duration
1	NB 5 <sup>th</sup> St @ I-70	16,384	0.34	8 h 51 m	34 d 8 h 17 m
2	NB Wentzville Pkwy @ W Pearce Blvd	11,358	0.16	14 h 47 m	57 d 6 h 53 m
3	NB Harvester Rd @ MO 364 SOR	11,070	0.37	5 h 22 m	20 d 19 h 56 m
4	WB Mexico Rd. @ Cave Springs/Muegge Rd.	8,803	0.30	5 h 14 m	20 d 7 h 48 m
5	NB Mid Rivers Mall Dr. @ Central School Rd.	8,283	0.44	3 h 38 m	14 d 2 h 16 m

Source: RITIS with HERE probe speed data for major arterial corridors only for all days. Locations ranked on 'Base Impact': the aggregation of queue length over time for segments ending at noted location in mile minutes.

**Section 2: System Status Update**

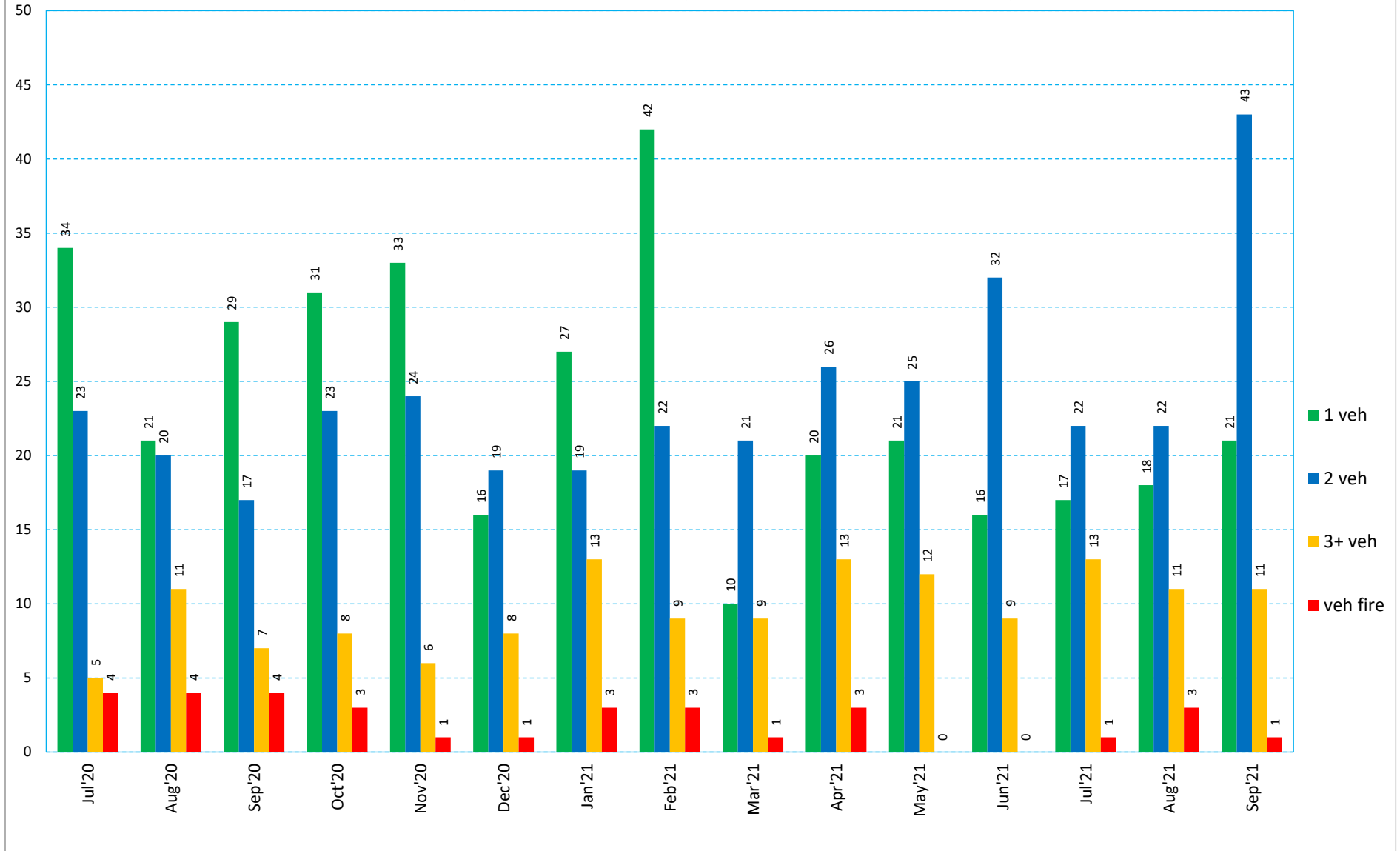
Device Type	No.		% Reliable		Trend
	Last	This	Last	This	
 Signals Communicating on TCS	343	348	97%	99%	
 CCTV's working	156	156	97%	97%	
 Bluetooth Devices Reporting	69	68	68%	68%	
 Intersections on TDMS	129	129	84%	84%	

Device Type	No.		% Reliable		Trend
	Last	This	Last	This	
 Cellular & Radio Devices	42	40	100%	95%	
 DMS Boards	4	4	100%	100%	
 Traffic Count Stations	0	0	0%	0%	
 Fiber Optic Cable	63.0 mi	63.0 mi	100%	100%	

**GGL Device Efforts**

- GGL fiber repairs completed at Mid Rivers Mall Dr DMS cabinet and I-70 at TR Hughes Blvd CCTV pull box. Both damages occurred due to pests.
- Firmware updated on all DMS boards
- New PTZ cameras installed and integrated into ATMS for O'Fallon, St Charles, St Peters

**Trailing 15-Month Freeway Events in St. Charles County**



**Events**

- **4<sup>th</sup> of July Fireworks at St Charles Riverfest:** Pre-developed egress plans implemented at signals on 5<sup>th</sup> St, First Capitol, MO 94 upon completion of the fireworks display.
- **Cpl Jared Schmitz processions:** Signal timings adjusted at I-70 interchanges at Cave Springs and Zumbuhl Rd due to large crowds gathering for the processions.
- **St Charles Oktoberfest:** Weekend and modified PM peak timing plans run for the Friday evening and full Saturday duration of the event. Timings set back to normal the following Monday.

**Observations/ Assistance**

- **St Dominic High School** – morning and evening backups reported after drop-off and dismissal. Observed and made adjustments to timing at Bryan Rd and W Terra Ln to mitigate queuing from the traffic surge caused by the high school.
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