



BAY AREA TRAFFIC INCIDENT MANAGEMENT

Toward Data Driven Traffic Incident Management Improving Access to Freeway Crash Data

July 2020



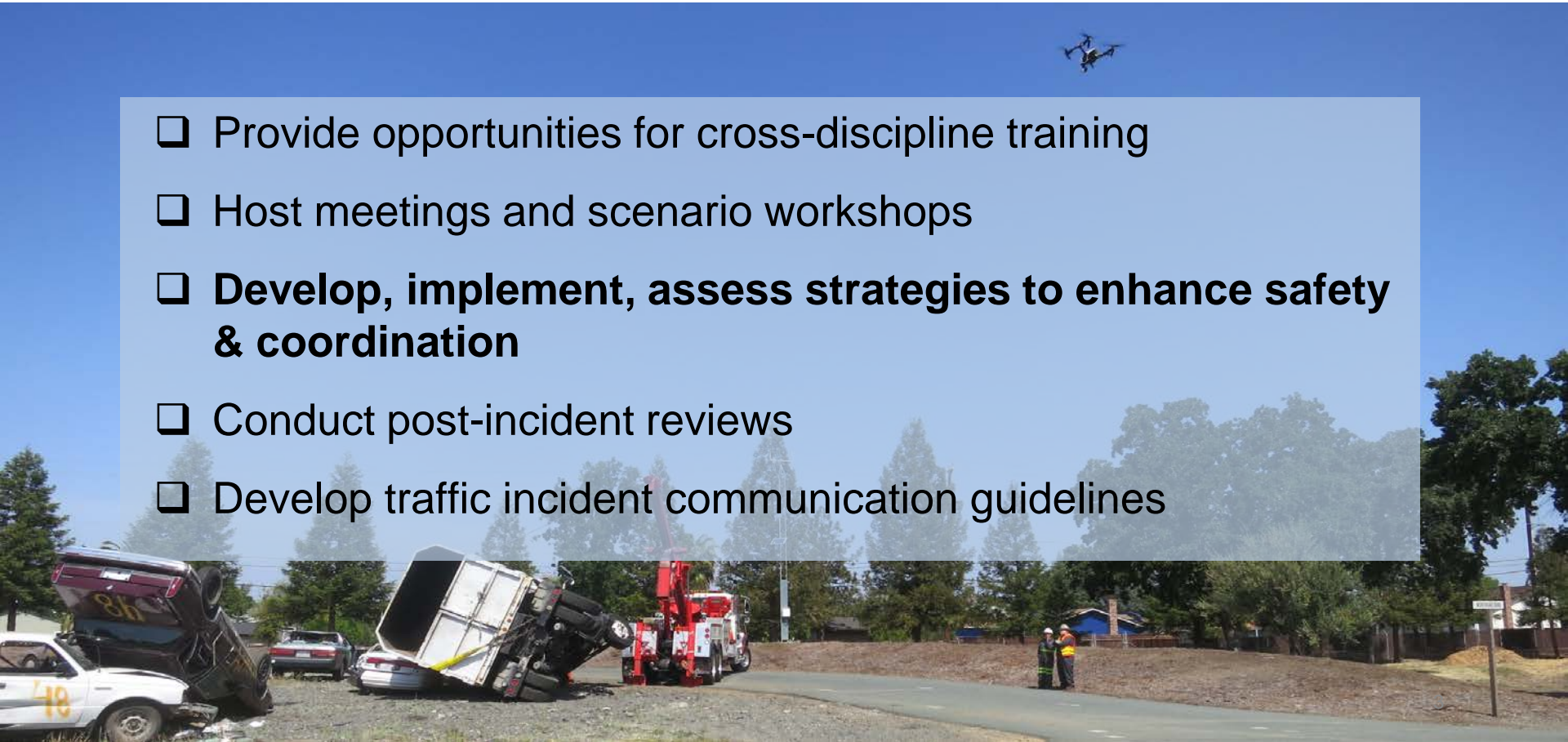
Bay Area Incident Management Task Force

60+ agencies and 50+ meetings since 2012



Key Task Force Activities

- ☐ Provide opportunities for cross-discipline training
- ☐ Host meetings and scenario workshops
- ☐ **Develop, implement, assess strategies to enhance safety & coordination**
- ☐ Conduct post-incident reviews
- ☐ Develop traffic incident communication guidelines



Startup in Residence (STIR)

16 week residency that connects government agencies with startups, via challenged-based procurement, to co-develop technology products that address real civic challenges



Government

+



Startup

=



Innovative
solutions
focused on
outcomes

Traffic Incident Dashboard

Partnership w/



BEFORE CHP Incident Feed

CHP Traffic Incident Information Page

Communications Centers: Golden Gate, OK | Searches: Choose One, OK

ations Center: Number of Incidents: 28

Time	Type	Location	Location Desc.
7:15 AM	Traffic Hazard	Cherry St / Old Catadero Rd	NB 280 JNO 1
7:18 AM	Traffic Collision-Union Inj	250 N / St 1	NB 280 JNO 1
7:16 AM	Traffic Collision-Union Inj	250 N / St 1	NB 280 JNO 1
7:14 AM	Traffic Collision-Union Inj	3485 N / Fremont Ave Onr	NB 88 J50 FREMONT
7:13 AM	Traffic Collision-Union Inj	3452 W / Ip	WB SR92 JVO TP
7:09 AM	Traffic Collision-1141 Ext	880 S / W Tennyson Rd Of	SB 880 JNO TENNYSON
7:08 AM	Defective Traffic Signals	SR185 / E Leveilling Blvd	MISSION AT E LEVELLING
7:06 AM	Traffic Collision-1141 Ext	880 S / W Tennyson Rd Of	SB 880 JNO TENNYSON
7:06 AM	Traffic Hazard	Byron Hwy / Bruns Rd	NB BYRON HWY AT BRUNS
7:06 AM	Traffic Hazard	15602 W	WB 92 JNO HIGH RISE
7:04 AM	Traffic Collision-Minor Inj	3485 N / Fremont Ave Of	NB 88 J50 FREMONT
7:04 AM	Traffic Hazard	880 W / Powell St Of	WB 88 J50 POWELL
7:03 AM	Provide Traffic Control	Ashland Ave / E Leveilling Blvd	ASHLAND AVE X LEVELLING BLVD

Inc Collision-1141 Ext Location: 880 S / W Tennyson Rd Of Loc Desc: SB 880 JNO TENNYSON Lat/Lon: 37.634974,-122.380993

(7) FIRE IS 1057 BLOCKING LANE 1 1181 [Shared]
 141 [Shared]
 3MG L F F [N] [Shared]
 VQ 1018 MIN VAG [Shared]

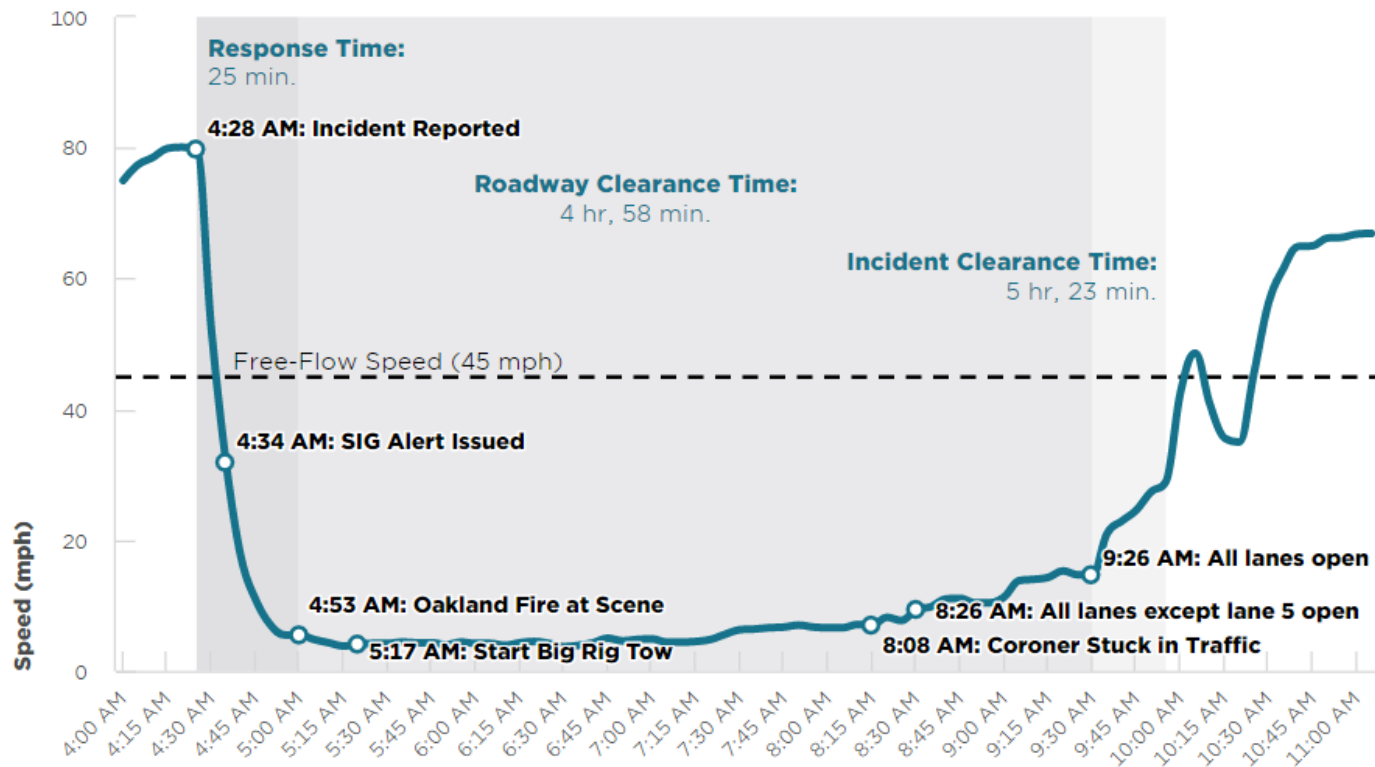
ned

AFTER

Dashboard to Track Performance



Anatomy of an Incident: 6/29/19 Bay Bridge



Recent Incidents Page

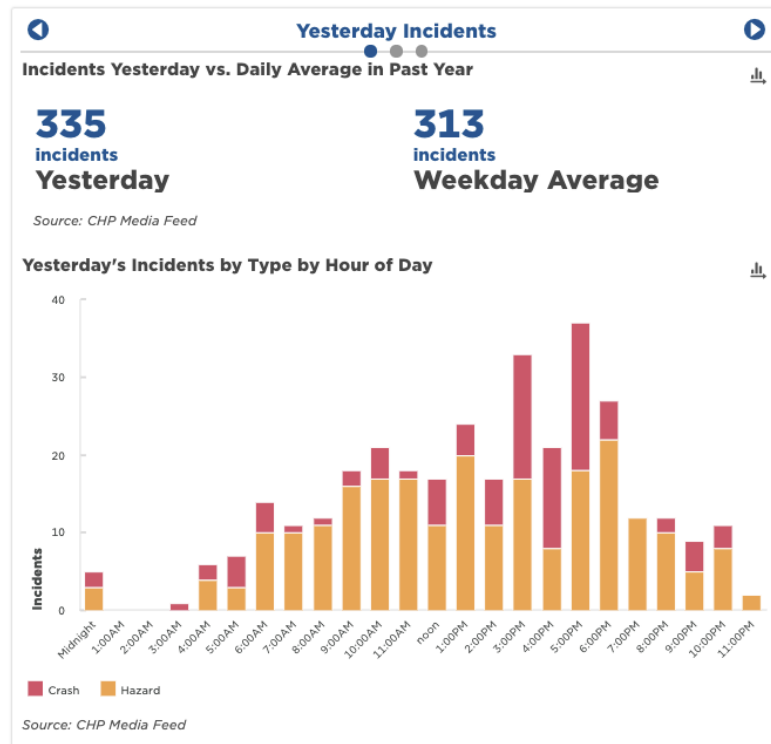
- Automatically updated daily
- Incidents volumes lower than average due to shelter in place

Recent Incidents

This page updates daily. On this page, **yesterday** refers to all of the incidents that occurred between midnight and 11:59 p.m. PST. The most recent data on this dashboard is from **July 16, 2020**.

Incident Frequency

This section provides an overview of **incident volume** in the San Francisco Bay Area, including incidents in the past day, month, and quarter.



Incident trends

Number of Incidents through Previous Month



40,358

incidents

Incidents To Date This Year

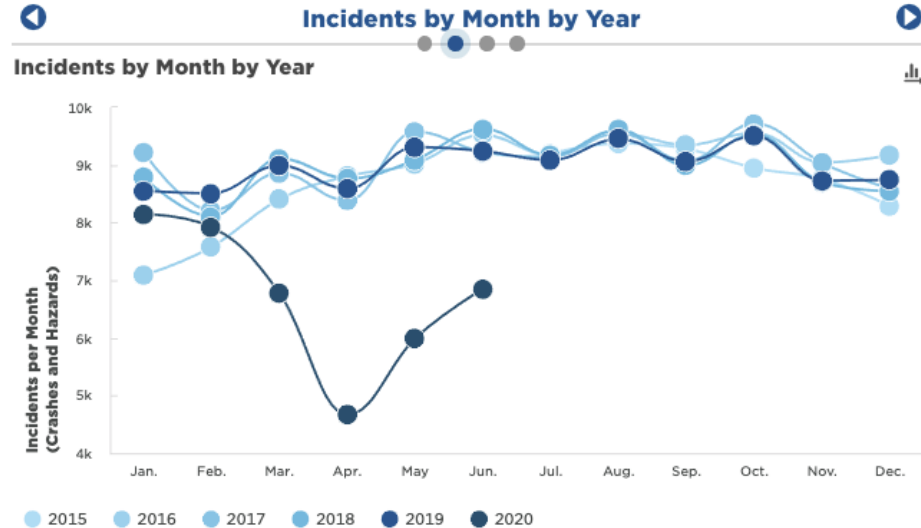


-12,845

incidents

Year Over Year Change

Source: Caltrans PeMS



Source: Caltrans PeMS

Shelter-in-Place vs. Present



3,582
incidents

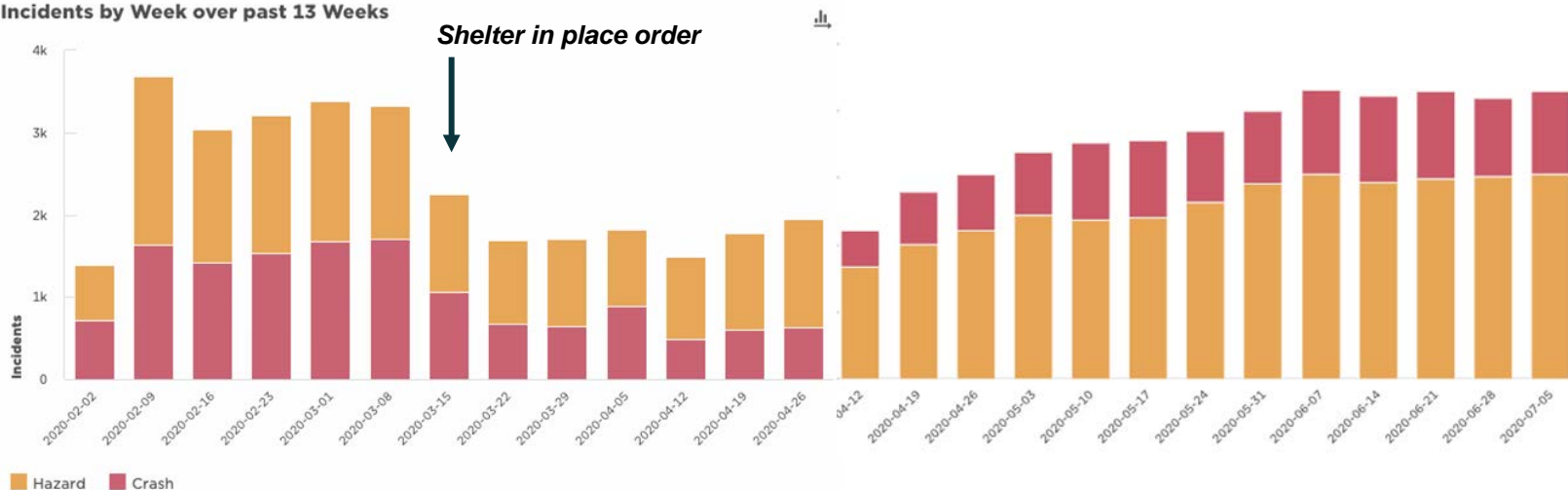
Q2 2020 to Date

35,038
incidents

Q1 2020 Total

Source: CHP Media Feed

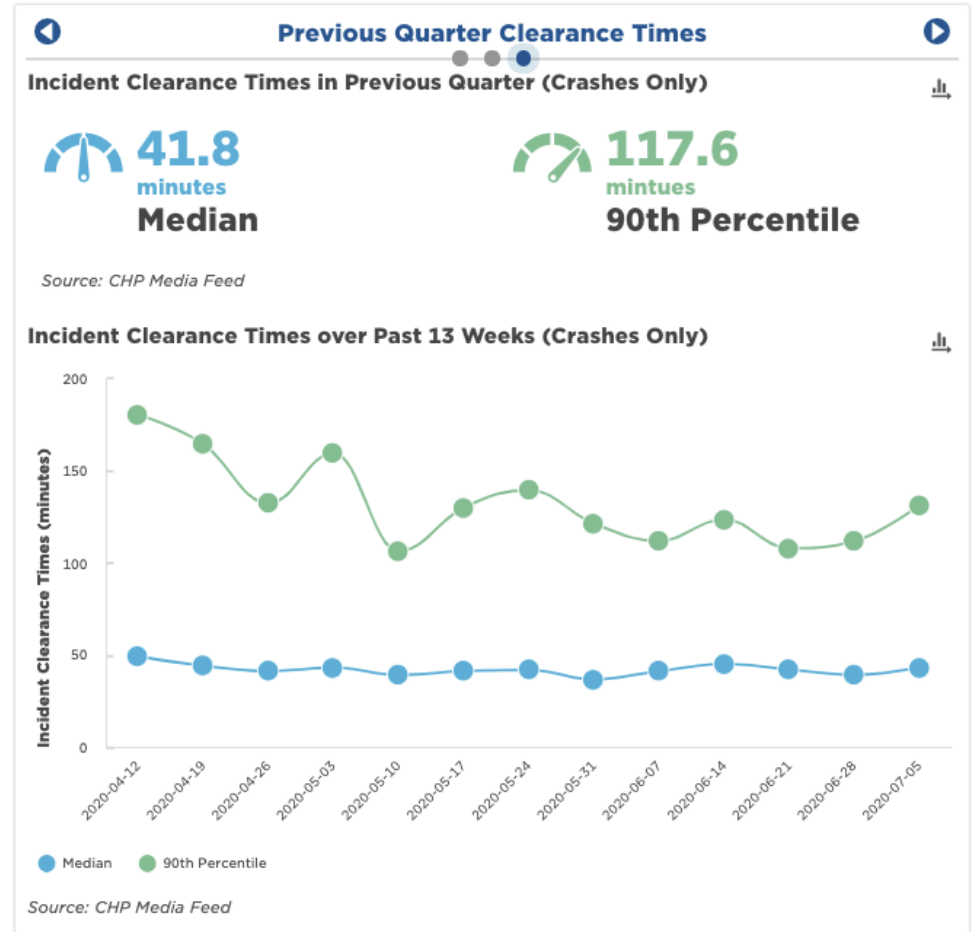
Incidents by Week over past 13 Weeks



Source: CHP Media Feed

Shelter-in-Place Impact

- As incident volumes increase, median and 90th percentile clearance times are decreasing
- Median:** 50 to 44 minutes
- 90th Percentile:** 180 to 131 minutes



Incident Clearance Times

- Crashes were driving increase in clearance times through April
- Crash clearances times were down in June and July

5-Year Median Incident Clearance Time

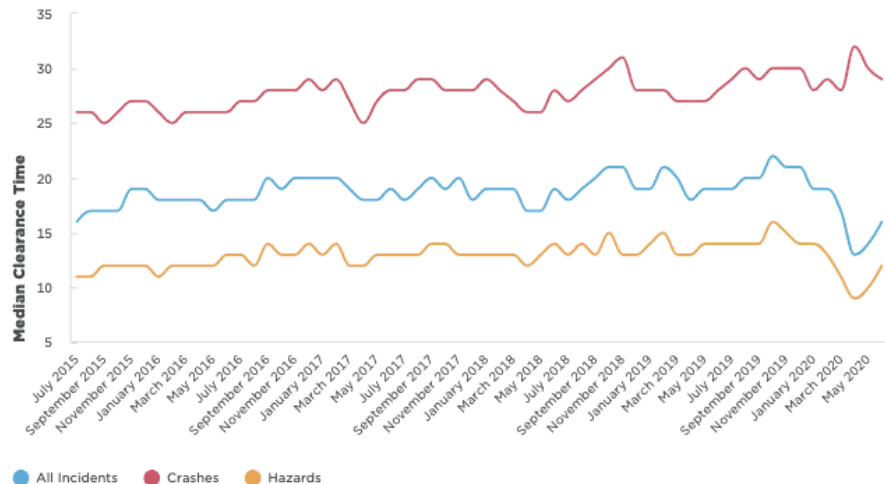


5-Year Median Clearance Time



Source: Caltrans PeMS

Monthly Median Clearance Times by Category Over Past 5-Years



Incident Clearance Times

- 90th percentile clearance time is down from peak in April 2020

5-Year 90th Percentile Incident Clearance Time



74
Minutes

90th Percentile Clearance Time

5-Year 90th Percentile Incident Clearance Times

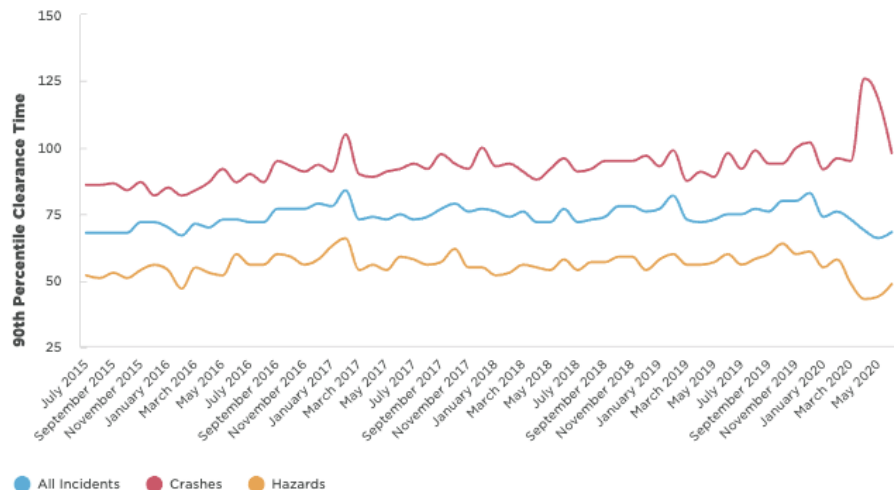


92
Minutes
Crashes



56
Minutes
Hazards

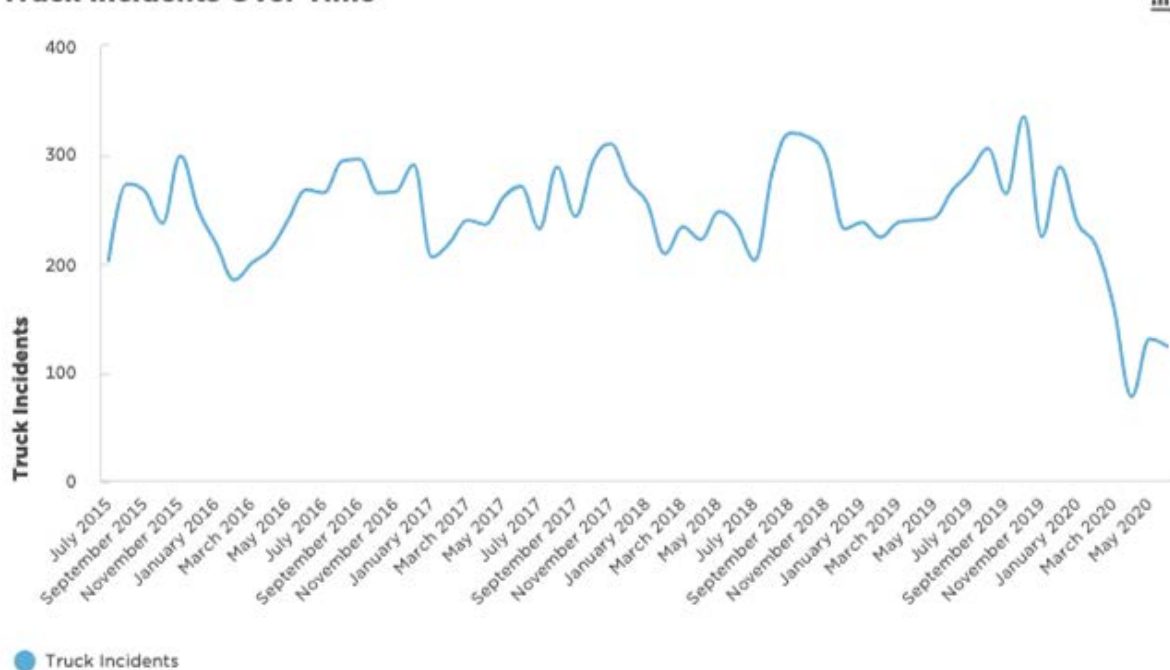
90th Percentile Clearance Times per Month



Source: Caltrans PeMS

Semi-Truck Incidents

Truck Incidents Over Time



Truck Incident Counts

124

truck incidents

Previous Month

San Francisco Bay Area

6.3%

of incidents

Previous Month

San Francisco Bay Area

246

truck incidents

Typical Month

San Francisco Bay Area

6.2%

of incidents

Typical Month

San Francisco Bay Area



BAY AREA TRAFFIC INCIDENT MANAGEMENT

www.timbayarea.org

Sarah Burnworth

sburnworth@bayareametro.gov

