Outlier in RiskFactor
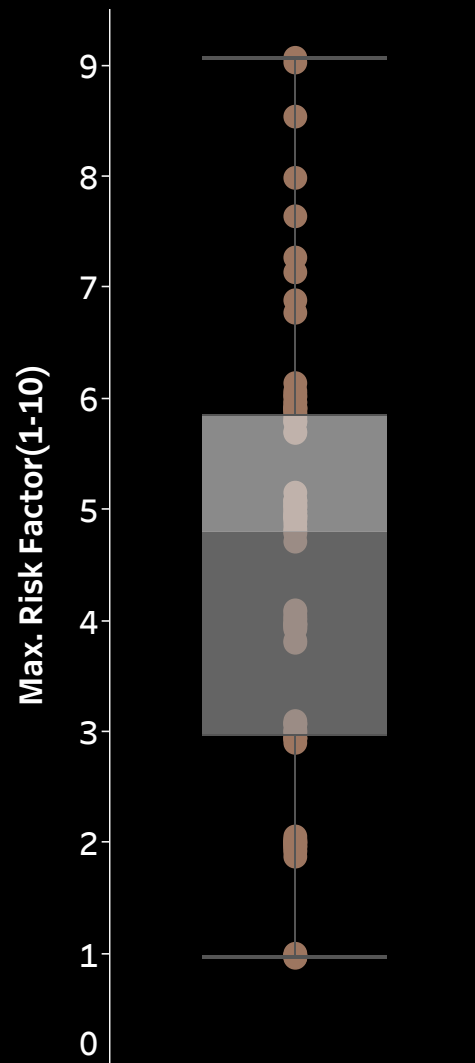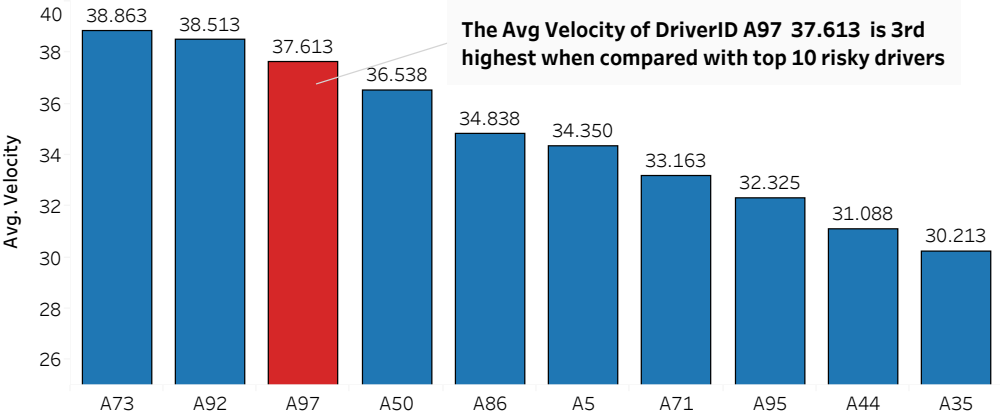
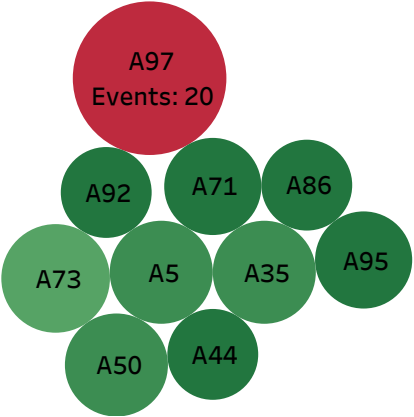# No Outliers

Max. Risk Factor(1-10)

Maximum of Risk Factor(1-10). Details are shown for Driverid. The data is filtered on average of Risk Factor(1-10), which ranges from 0.966469830 to 10.
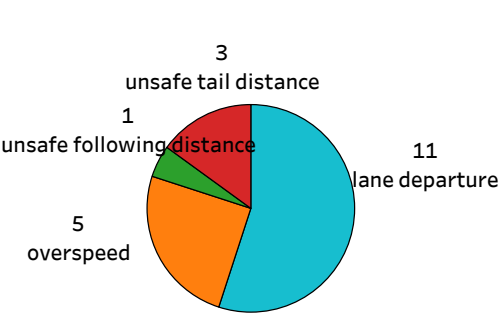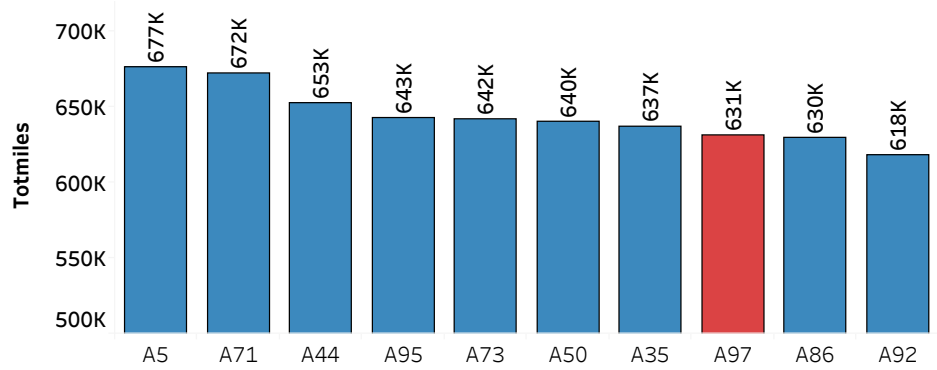
Driver ID - A97

Average Velocity

The Avg Velocity of DriverID A97 37.613 is 3rd highest when compared with top 10 risky drivers

Bars (left to right): A73 38.863, A92 38.513, A97 37.613, A50 36.538, A86 34.838, A5 34.350, A71 33.163, A95 32.325, A44 31.088, A35 30.213

Y-axis: Avg. Velocity

Total 10 risky drivers

A97 Events: 20
A92, A71, A86
A73, A5, A35, A95
A50, A44

Total abnormal events

3 unsafe tail distance
1 unsafe following distance
5 overspeed
11 lane departure

Total Miles by DriverID A97

Bars (left to right): A5 677K, A71 672K, A44 653K, A95 643K, A73 642K, A50 640K, A35 637K, A97 631K, A86 630K, A92 618K

Y-axis: Totmiles

Abnormal events in every City

Y-axis: Totmiles with events

Event
- lane departure
- overspeed
- unsafe following dista..
- unsafe tail distance

Santa Rosa: 10, 1 1
Modesto: 6, 3
San Dimas: 4, 1 1, 1 1
Oceano: 7
Markleeville: 6, 1
Lodi: 4, 2 1
Arbuckle: 4, 3
Aptos: 6, 1
Hollister: 4, 1
Antelope: 5
San Diego: 1 1
Palmdale: 2
Gilroy: 2
Willits: 1
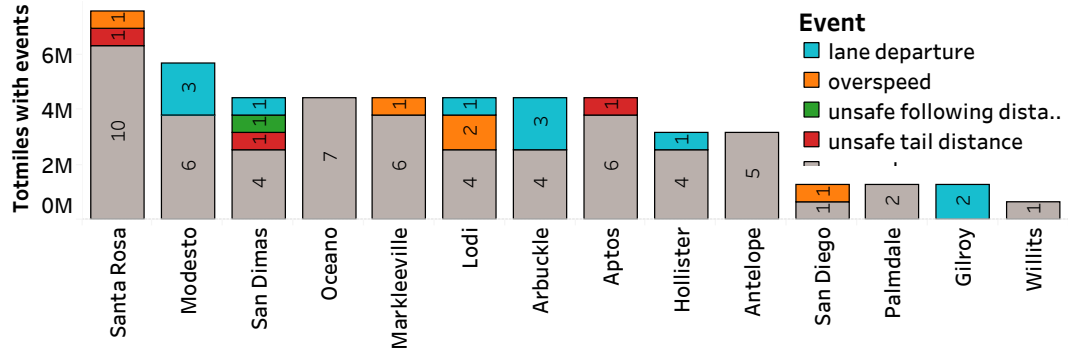
Drivers with risk Factor >7

Risky Drivers

Driverid

Total abnormal events

Unsafe tail distance
8

Lane departure
20

Unsafe following distance
28

Overspeed
11

Most common abnormal event
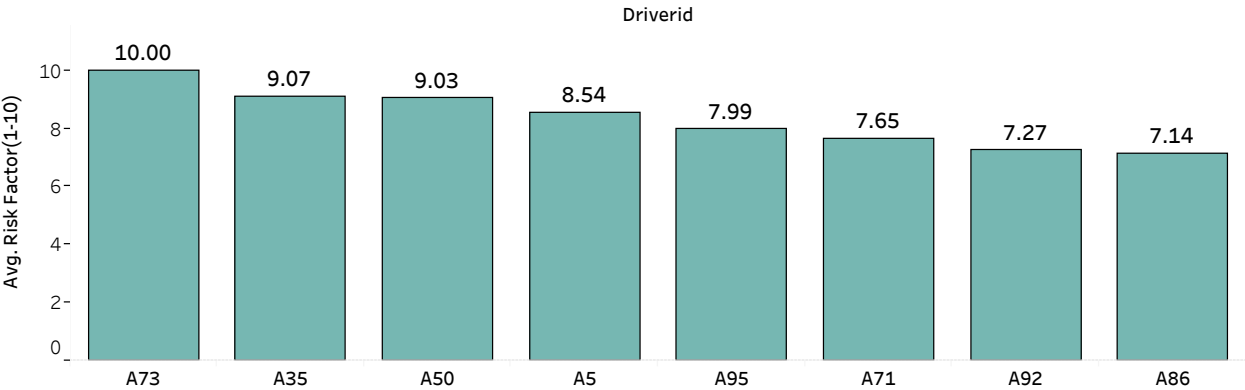
Vehicle Model

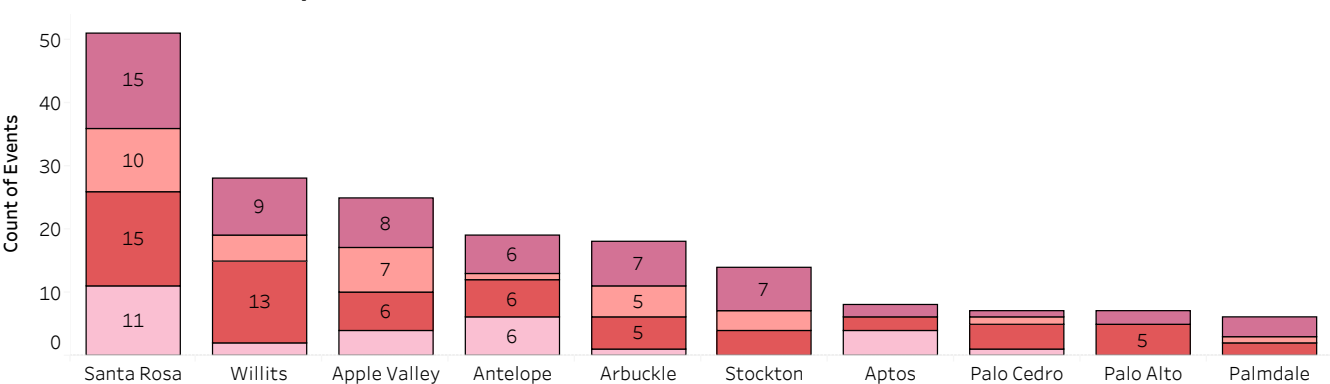| Model:Oshkosh Avg Risk Factor:9.541	Model:Ford Avg Risk Factor:8.228	Model:Volvo Avg Risk Factor:7.274
Model:Hino Avg Risk Factor:8.544	Model:Peterbilt Avg Risk Factor:7.819	
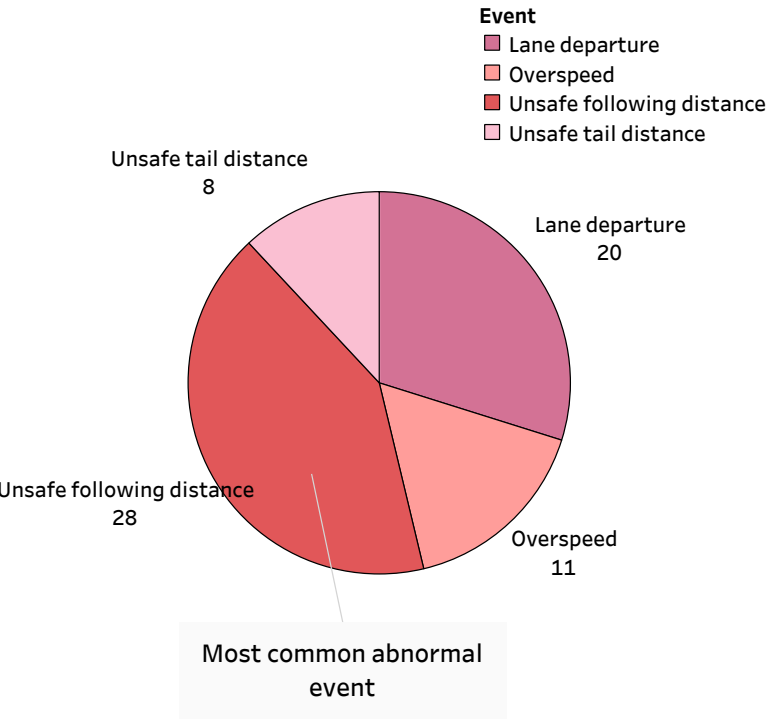
Cities in California with greater risk

Total events in Top 10 Cities

Bar chart titled "Total events in Top 10 Cities" with y-axis "Count of Events" ranging 0 to 1000. Values: Santa Rosa 1,046; Willits 520; Apple Valley 308; Antelope 310; Stockton 315; Arbuckle 229; Aptos 217; Palo Cedro 167; Palmdale 165; Palo Alto 167.

Event
- Lane departure
- Overspeed
- Unsafe following dista..
- Unsafe tail distance

Abnormal events in Top 10 Cities

Stacked bar chart titled "Abnormal events in Top 10 Cities" with y-axis "Count of Events" ranging 0 to 50.
- Santa Rosa: 15, 10, 15, 11
- Willits: 9, 13
- Apple Valley: 8, 7, 6
- Antelope: 6, 6, 6
- Arbuckle: 7, 5, 5
- Stockton: 7
- Aptos
- Palo Cedro
- Palo Alto: 5
- Palmdale

Abnormal Events in every City

Map of California with city labels: Klamath, Kneeland, Palo Cedro, Markleeville, Mariposa, Hollister, Fresno, Bakersfield, Goleta, La Quinta, Jacumba. Nevada, California, Baja California.

© 2021 Mapbox © OpenStreetMap

Ranking of Abnormal events with highest risk

Event

Unsafe following distance

Count of Events

A86	A73	A92	A5	A71	A50	A35	A95	Grand T..
5	5	4	4	3	3	3	1	28

For the drivers with risk factor >7, all of them have violated the Event: Unsafe following distance

Lane departure

Count of Events

| 1 | 2 | 3 | 1 | 2 | 3 | 3 | 5 | 20 |

Overspeed

Count of Events

| 1 | 3 | | 1 | 2 | 2 | 2 | | 11 |

Unsafe tail distance

Count of Events

| | | | 3 | 1 | 1 | 1 | 2 | 8 |
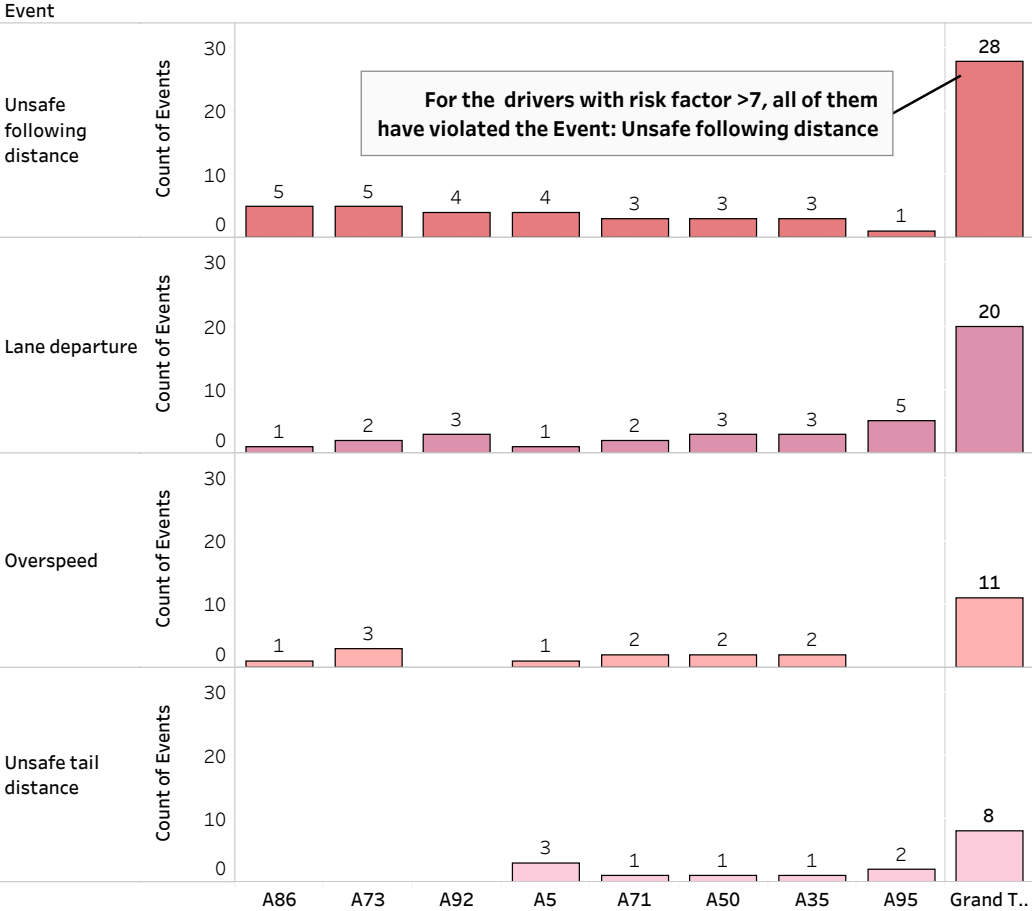
Ranking of vehicle models with highest risk

Model   Driverid

Oshkosh

Count of Events

A73	A50	A5	A35	A95	A71	A92	A86	Grand T..
10	9							19

Among the drivers with risk factor >7, the highest number of abnormal events has occured for drivers using vehicle Oshkosh

Ford

Count of Events

| | | | 9 | | | | 7 | 16 |

Peterbilt

Count of Events

| | | | | 8 | 8 | | | 16 |

Hino

Count of Events

| | | 9 | | | | | | 9 |

Volvo

Count of Events

| | | | | | | 7 | | 7 |
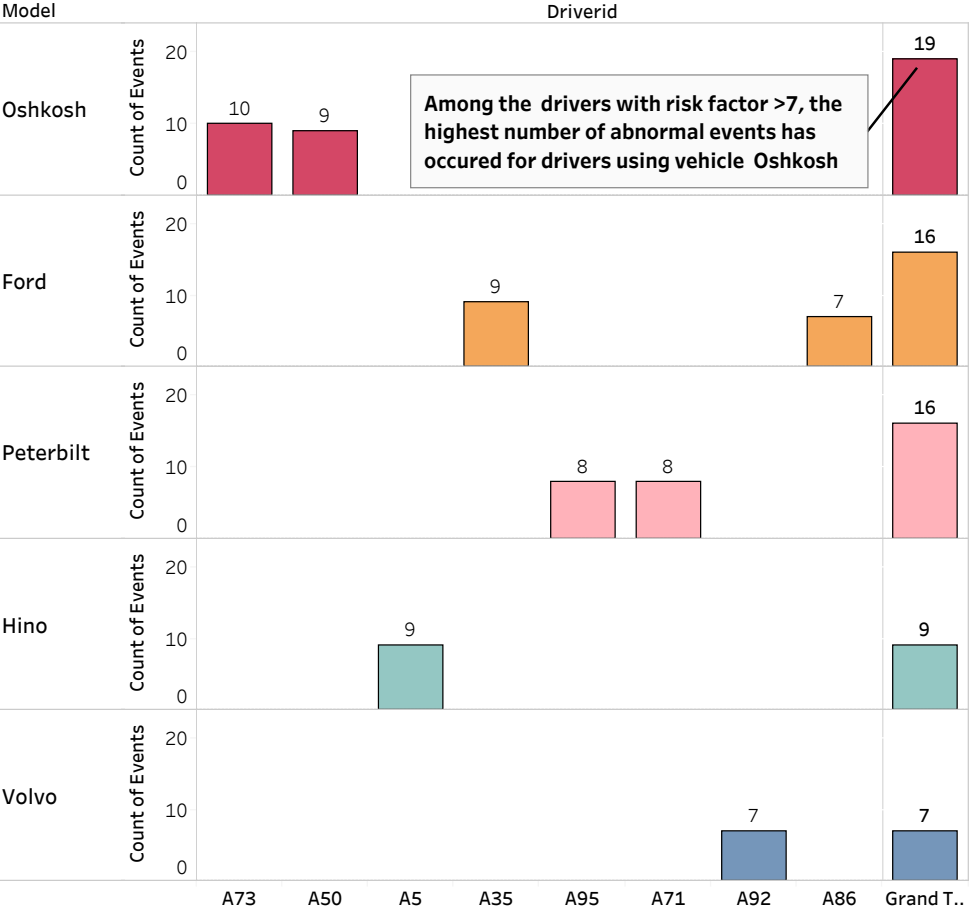
7. App: Model Details

Risk Factor Contribution per model

Caterpillar
13.69%
Total no of drivers: 17
Total no of Events: 60

Peterbilt
18.48%
Total no of drivers: 16
Total no of Events: 81

Ford
20.47%
Total no of drivers: 20
Total no of Events: 89

Oshkosh
5.98%
Total no of drivers: 4
Total no of Events: 26

Model
- Caterpillar
- Crane
- Ford
- Freightlin..
- Hino
- Kenworth
- Navistar
- Oshkosh
- Peterbilt
- Volvo
- Western S..
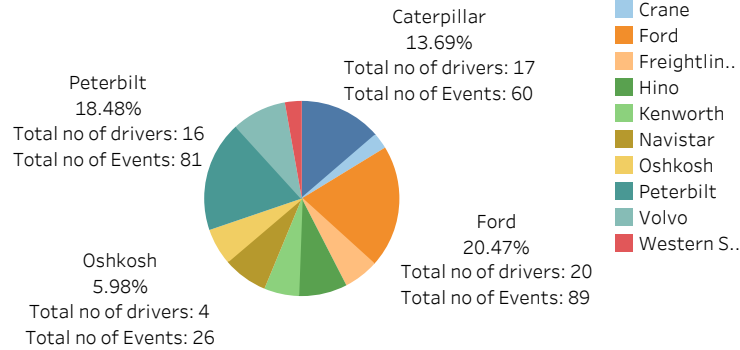
Model with highest no of events

|			
Model: Ford Total Miles: 12,941,439 Average Risk Factor: 4.431 Total Gas: 2,549,899 Average Velocity: 34.499	Model: Caterpillar Total Miles: 11,049,147 Average Risk Factor: 3.486	Model: Volvo Total Miles: 5,807,613 Average	Model: Hino Total Miles:
Model: Peterbilt Total Miles: 10,361,566 Average Risk Factor: 5.000 Total Gas: 2,082,909 Average Velocity: 34.468	Model: Navistar Total Miles: 5,851,376	Model: Freightliner	
	Model: Oshkosh Total Miles:	Model: Kenworth	

Model risk per city

Model	City	Risk Factor
Caterpillar	Antelope	
	Apple Valley	
	Aptos	
	Arbuckle	
	Cloverdale	
	Gilroy	
	Glen Ellen	
	Goleta	
	Hollister	
	Homeland	
	Irvine	
	Isleton	

Model division per city
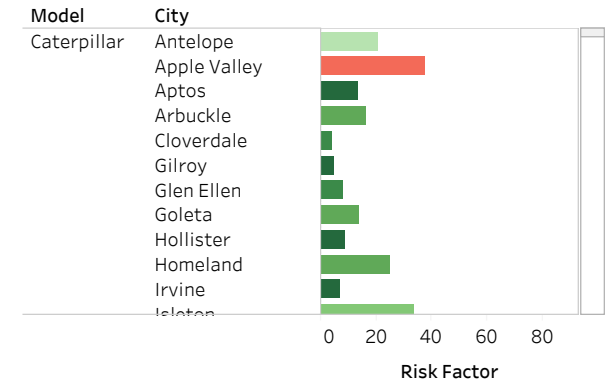
City
- Antelope
- Apple Valley
- Aptos
- Arbuckle
- Bakersfield
- Cloverdale
- Fresno
- Gilroy
- Glen Ellen
- Glendora
- Goleta
- Hollister
- Holtville
- Homeland
- Irvine
- Isleton
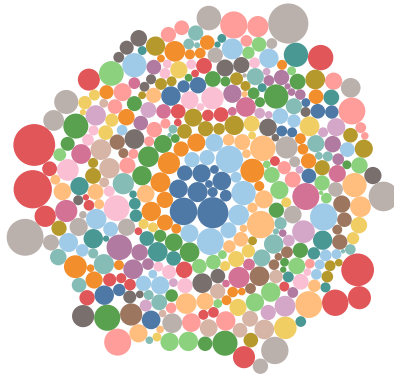
Model - Driver details

| Model	Driverid ..	Avgmpg	Avg. Totmiles	Avg. Gas	Events	Risk Factor
Caterpillar	A6	5.71	648,479	2,141	1	0.99
	A12	4.69	668,241	2,661	5	4.81
	A18	6.30	656,474	2,005	6	5.87
	A19	5.05		2,429		
	A22	4.45	652,995	2,760	1	0.98
	A28	5.67	655,680	2,168	3	2.94
	A33	5.65	652,047	2,169	4	3.94
	A39	4.97	652,417	2,436	1	0.98
	A45	5.21	638,204	2,281	4	4.03
	A49	5.62	627,335	2,104	6	6.14
	A55	4.90	642,144	2,434	2	2.00
	A56	4.77	655,671	2,561	3	2.94
	A60	5.96	653,030	2,079	6	5.90
	A66	5.42	660,413	2,270	6	5.83

8. App: Driver Details
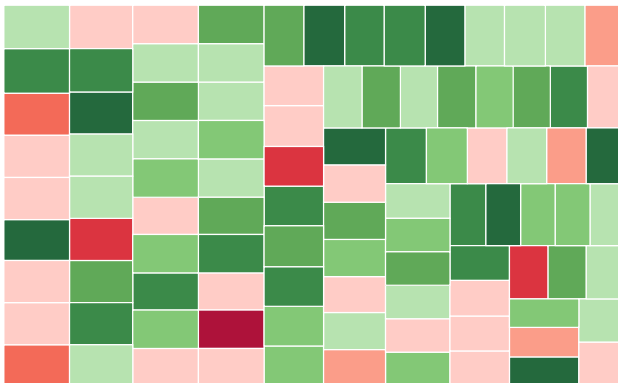
Drivers distribution with Total Miles
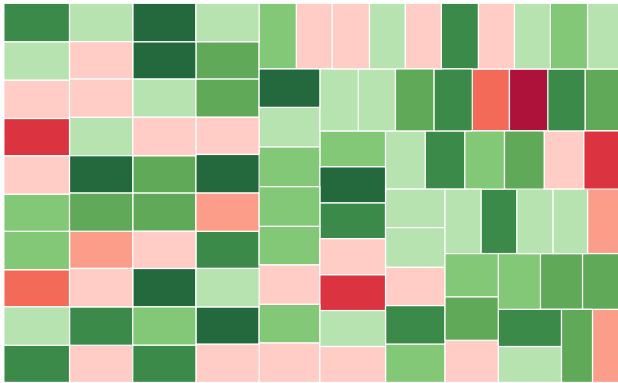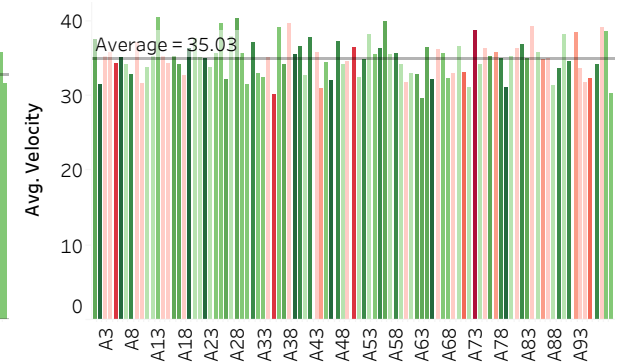

Driver vs Risk Factor
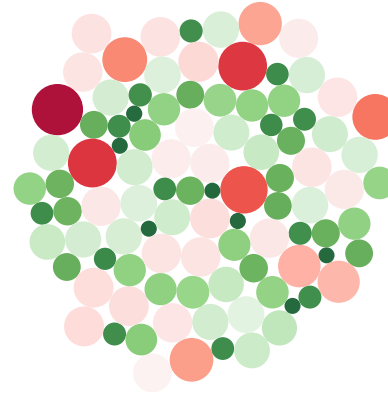
Events per driver
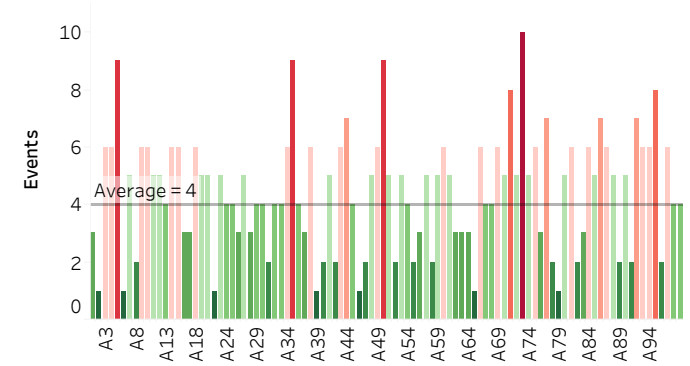
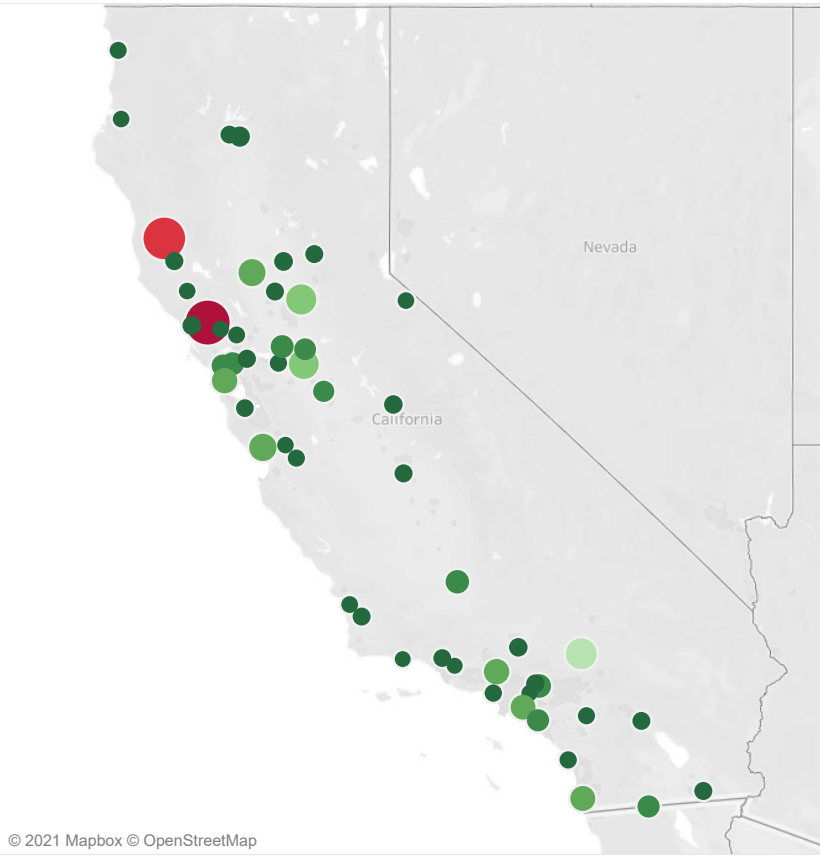## Drivers distribution with Gas
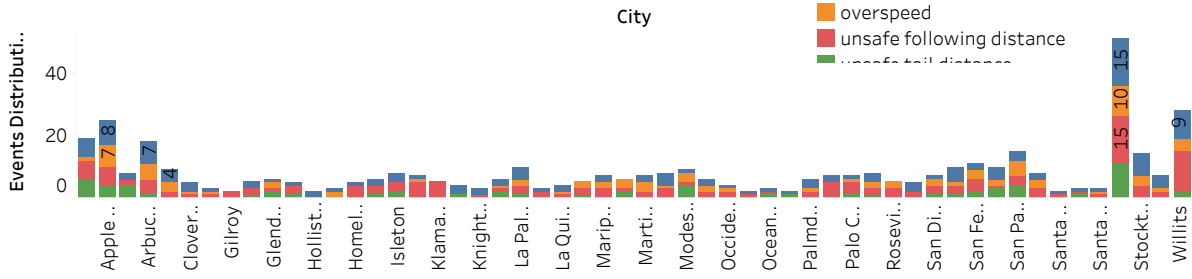

Avg mpg per driver

Avg Velocity per driver

9. App: City Details

Risk factor in cities

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Events per city

City

Event
- lane departure
- overspeed
- unsafe following distance
- unsafe tail distance

Events Distributi..

Apple .. Arbuc.. Clover.. Gilroy Glend.. Hollist.. Homel.. Isleton Klama.. Knight.. La Pal.. La Qui.. Marip.. Marti.. Modes.. Occide.. Ocean.. Palmd.. Palo C.. Rosevi.. San Di.. San Fe.. San Pa.. Santa.. Santa.. Stockt.. Willits

Avg velocity per city

City

Avg. Velocity

Apple Valley Arbuckle Cloverdale Gilroy Glendora Hollister Homeland Isleton Klamath Knights Lan.. La Palma La Quinta Mariposa Martinez Modesto Occidental Oceanside Palmdale Palo Cedro Roseville San Diego San Fernan.. San Pablo Santa Maria Santa Paula Stockton Willits