

Tableau Project

2021 Automobile/Motorcycle Crash Data PA

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Input/Filter Data

- Using Tableau Prep Builder
- Input my excel file
- Did a join on both files
- Aggregated
- Cleaned

The screenshot shows the Tableau Prep Builder interface for a project named "Crash Data Project". The workflow consists of the following steps:

- Crash Data Pen...** (Input)
- Clean 1** (Filter)
- Sheet1** (Input)
- Clean 2** (Filter)
- Join 1** (Join)
- Clean 6** (Filter)
- Aggregate 1** (Aggregate)
- Clean 7** (Filter)
- Output** (Output)

The output table is titled "Intro to Data and AI (Crash Data) ETL.hyper" and contains 38 fields. The visible data is as follows:

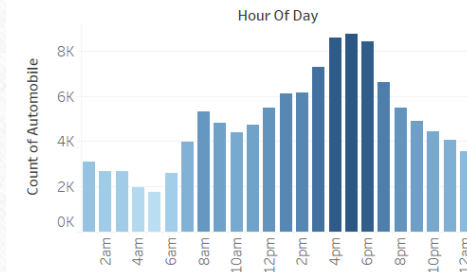
COLLISION_TYPE	COUNTY	CRASH_MONTH	CRASH_YEAR	DAY_OF_WEEK	DISTRICT	HOUR_OF_DAY	LATITUDE
Head-on	Allegheny	August	2021	Wednesday	District 11 (Allegheny, Beaver, Lawrence Counties)	14	40.7
Angle	Allegheny	December	2021	Tuesday	District 11 (Allegheny, Beaver, Lawrence Counties)	19	40.7
Rear-end	Lebanon	July	2021	Wednesday	District 8 (Adams, Cumberland, Dauphin, Franklin, Lancaster, York)	15	40.7
Hit pedestrian	Philadelphia	August	2021	Sunday	District 6 (Bucks, Chester, Delaware, Montgomery, Philadelphia)	21	40.7
Hit fixed object	Lehigh	May	2021	Saturday	District 5 (Berks, Carbon, Lehigh, Monroe, Northampton, Schuylkill)	16	40.7
Hit fixed object	Centre	February	2021	Monday	District 2 (Cameron, Centre, Clearfield, Clinton, Elk, Juniata, Luzerne, Lycoming, Mifflin, Monroe, Northumberland, Schuylkill, York)	20	40.7
Hit pedestrian	Philadelphia	March	2021	Friday	District 6 (Bucks, Chester, Delaware, Montgomery, Philadelphia)	16	40.7
Other	Lycoming	November	2021	Friday	District 3 (Bradford, Columbia, Lycoming, Montour, Northumberland, Schuylkill, York)	23	41.1

Creating Visuals in Desktop

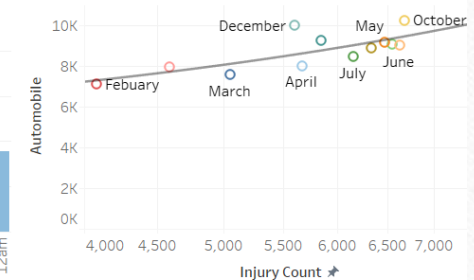
- Using Tableau Desktop
- Uploaded the cleaned data
- Created visuals
- Posted to Dashboard

Automobile Dashboard

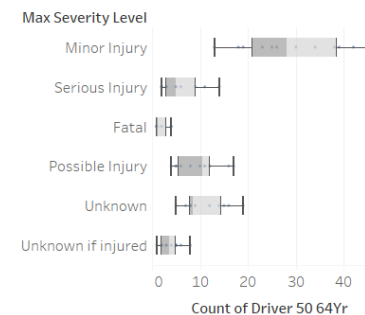
50-64 Yr. Old Automobile Accidents by Hour of Day



Injury Count per Automobile Accident for each Month



Level of Injury per Age group 50-64

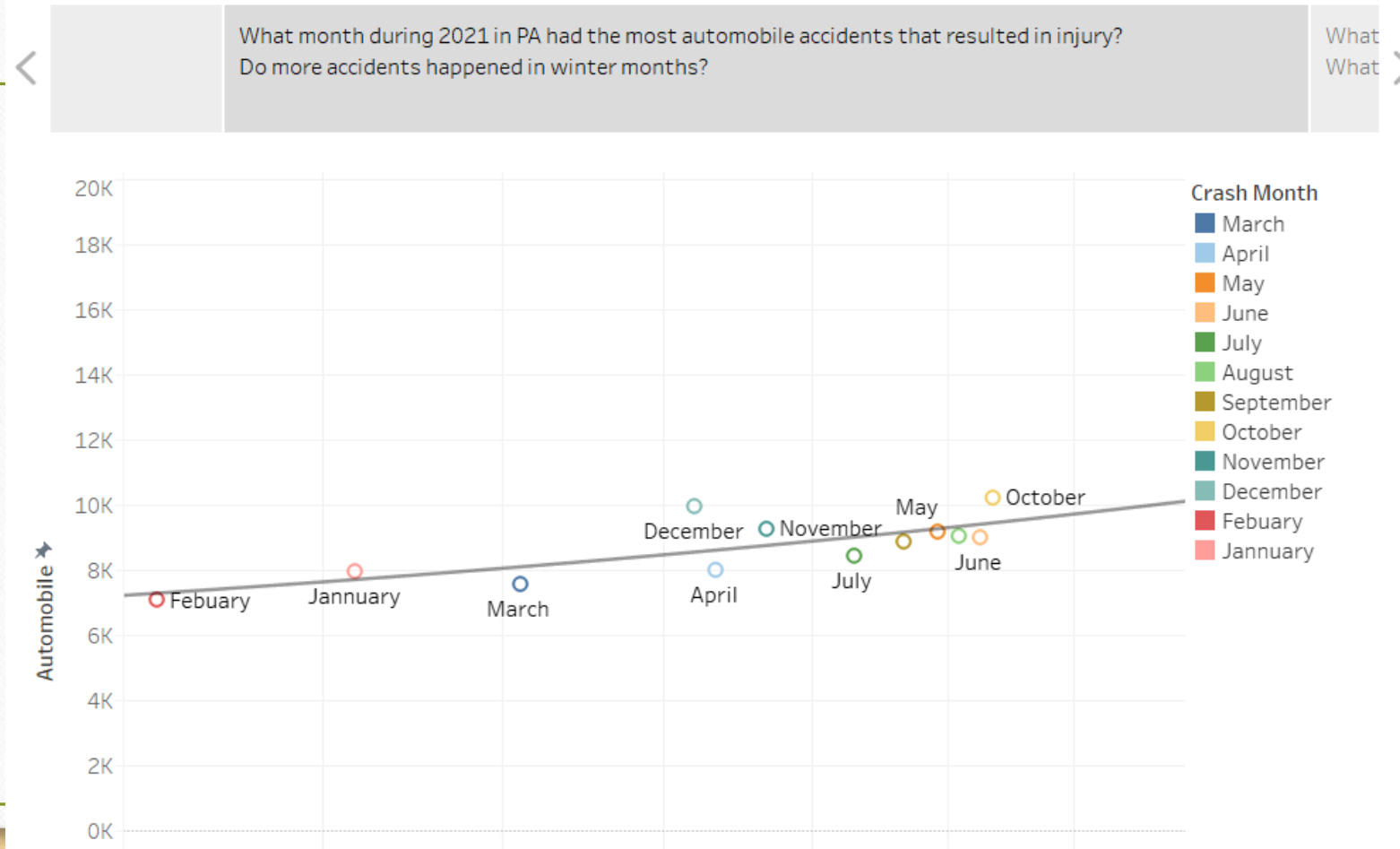


Collision Type by Injury

Collision Type	Max Severity Level				
	Minor I..	Serious..	Fatal	Possibl..	Unkno.
Angle	25,397	3,371	811	8,435	12,891
Backing	232	15		80	149
Head-on	3,770	1,122	339	1,040	1,881
Hit fixed object	9,363	1,911	572	2,330	5,041
Hit pedestrian	2,766	1,072	407	570	1,621
Non-collision	1,304	443	111	253	591
Other	831	83	24	171	291
Rear-end	17,466	1,464	309	7,394	9,091
Sideswipe (opposite dire..	1,421	204	40	440	841
Sideswipe (same directio..	3,175	354	74	1,200	2,591
Unknown	11	10	2	4	31

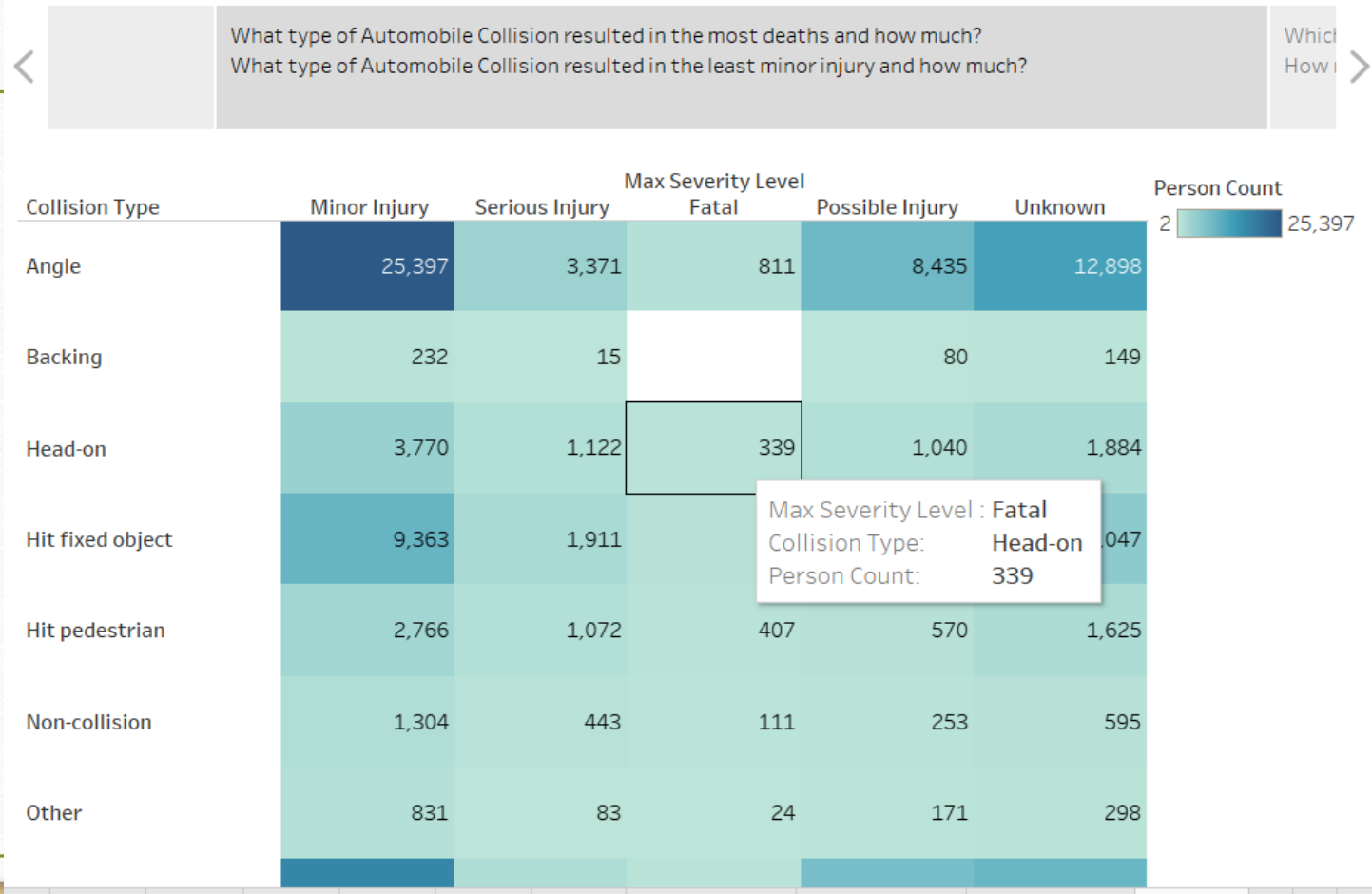
Telling the Story:

2021 Automobile/Motorcycle Crash Data



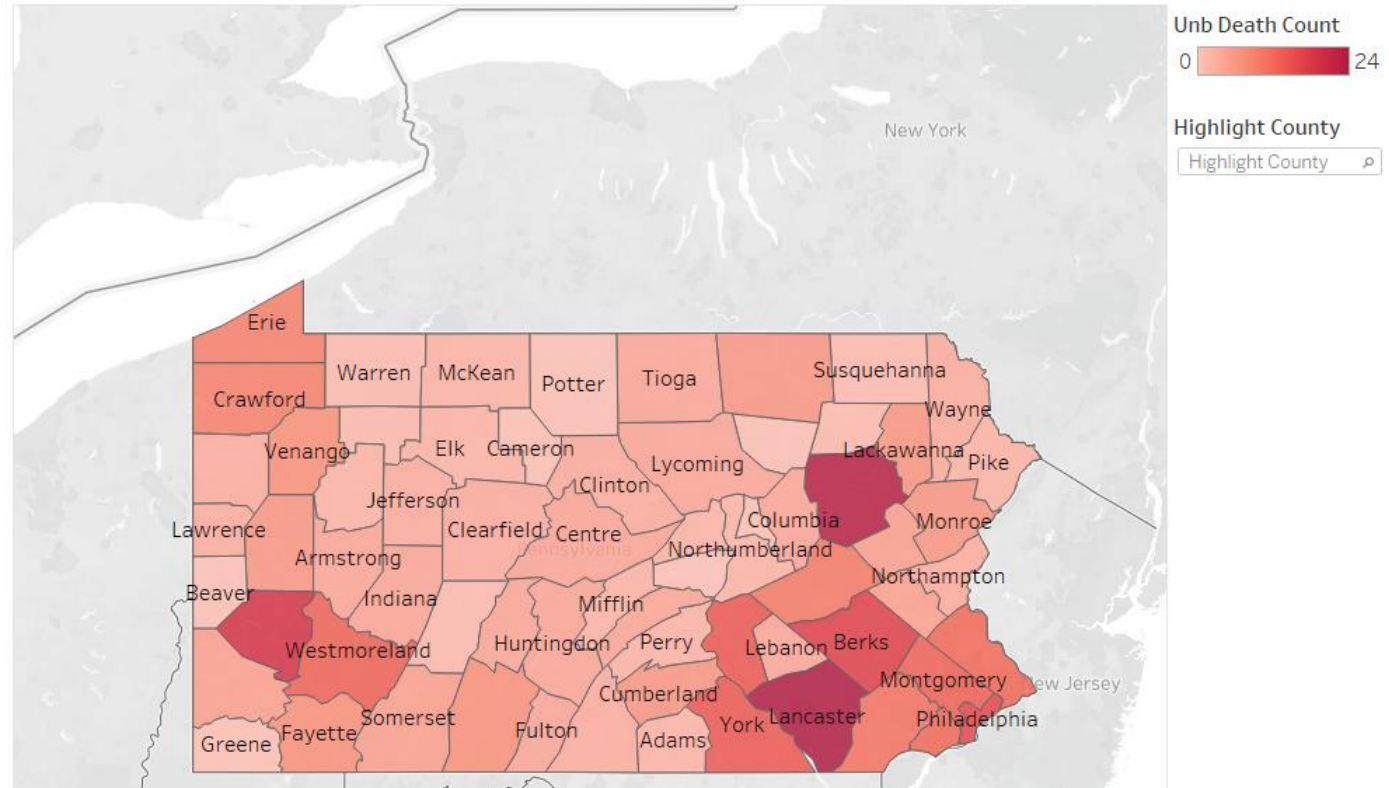
Telling the Story:

2021 Automobile/Motorcycle Crash Data

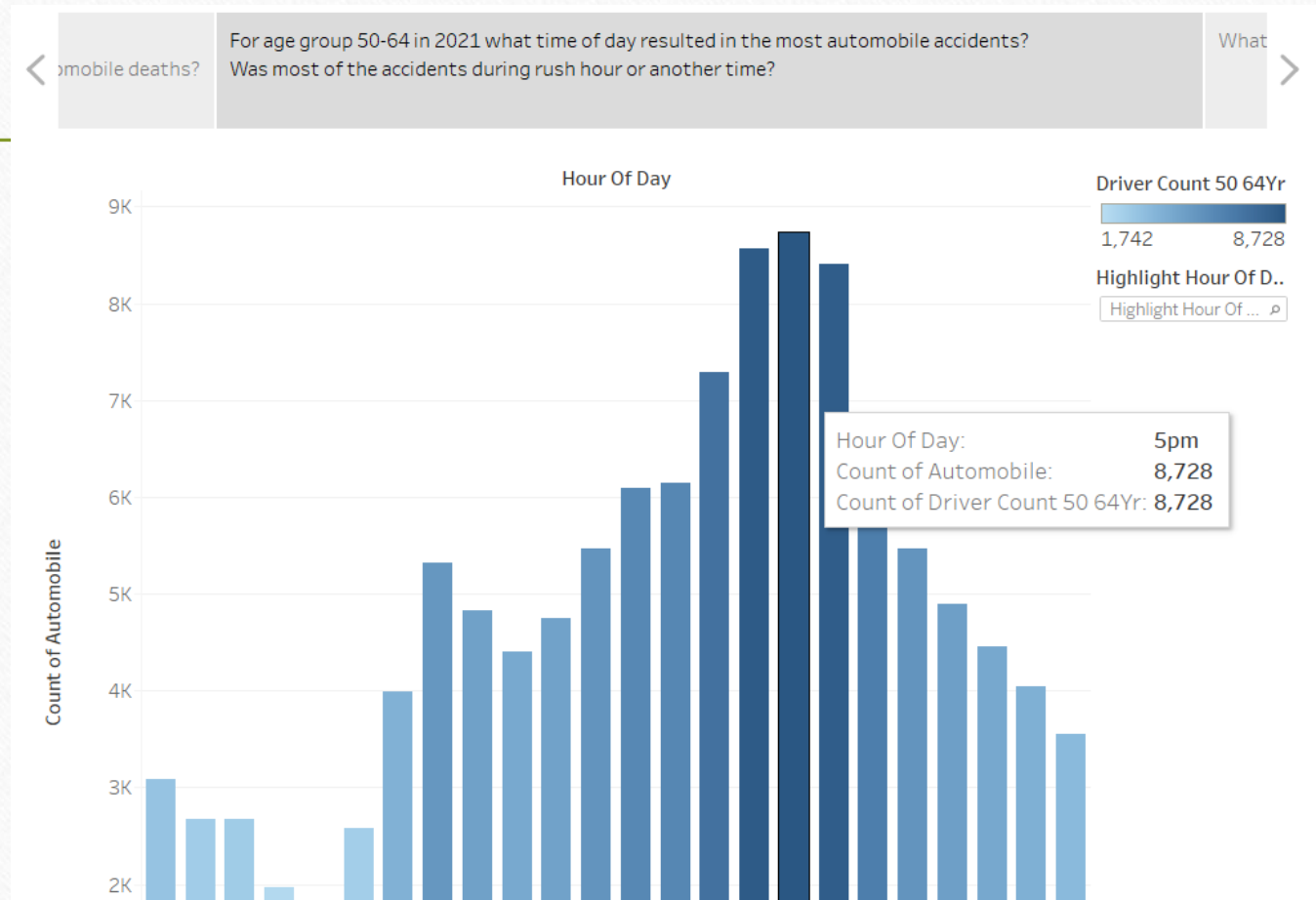


Telling the Story:

< Which county in PA during 2021 had the most deaths from not wearing a seatbelt?
How many deaths was there in Lehigh county from not wearing a seatbelt versus total automobile deaths? For a
Was r >



Telling the Story:



Telling the Story:

2021 Automobile/Motorcycle Crash Data

< What level of injury were 50-64 year olds involved in the most during the year 2021? >

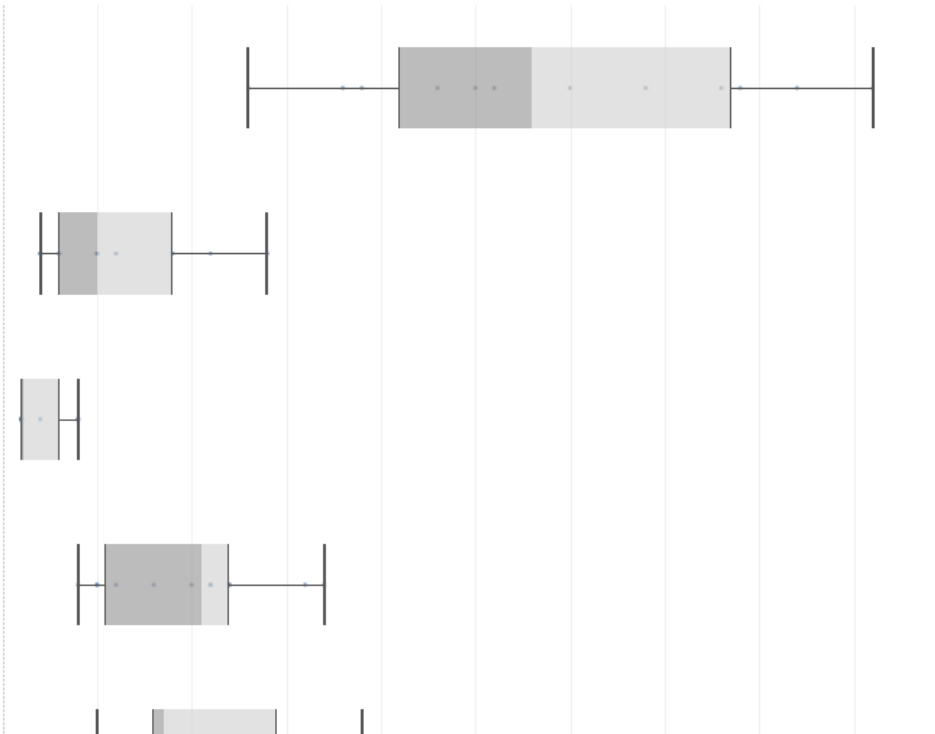
Max Severity Level

Minor Injury

Serious Injury

Fatal

Possible Injury

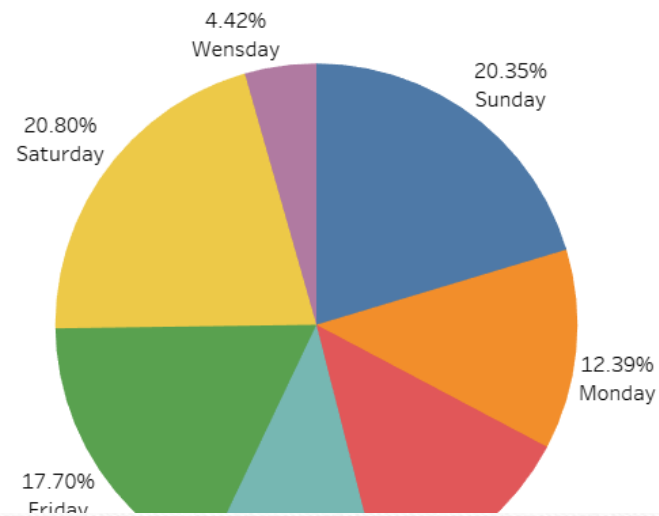


Telling the Story:

2021 Automobile/Motorcycle Crash Data

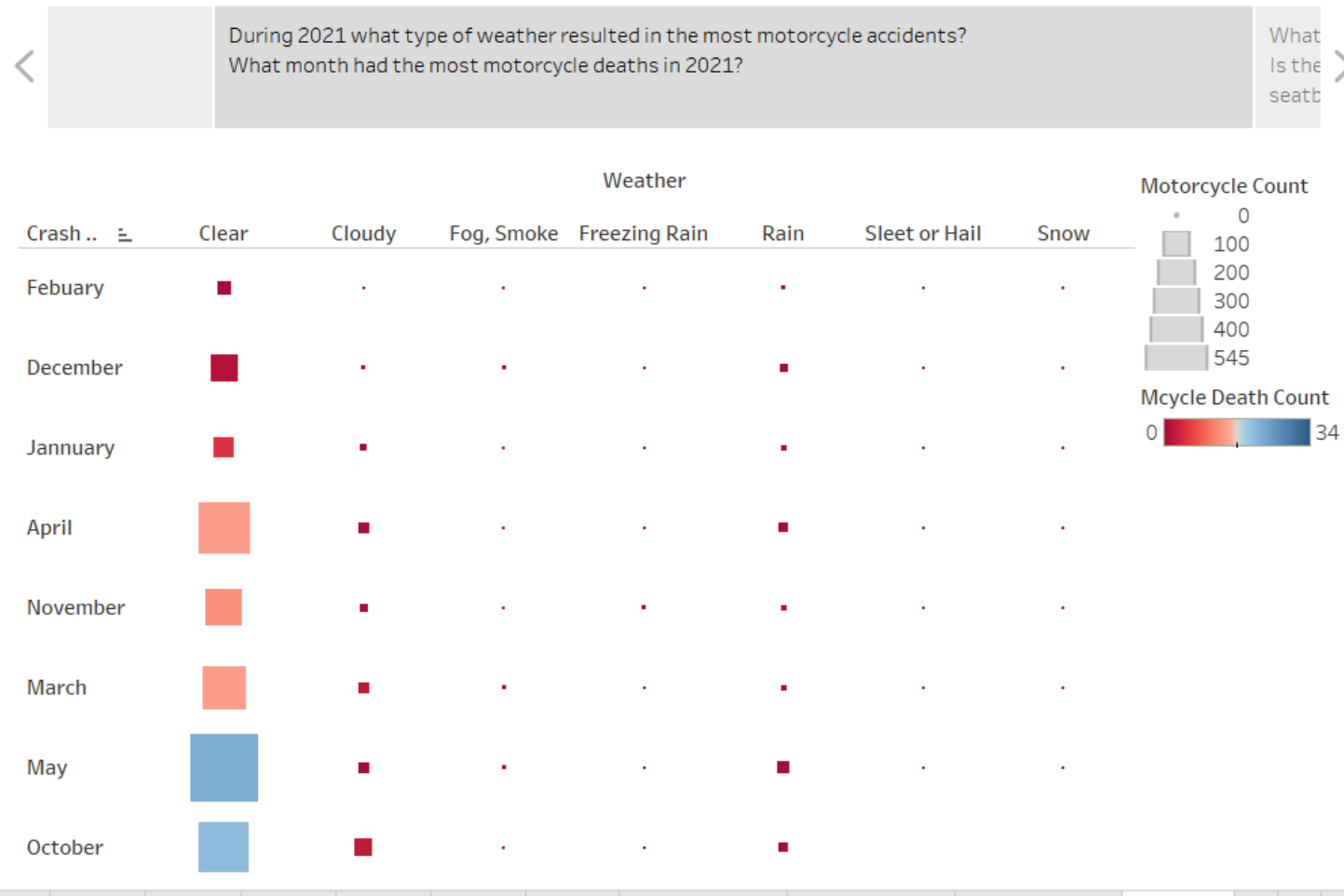
< What day of the week had the most motorcycle deaths in the year 2021? >

During What



Telling the Story:

2021 Automobile/Motorcycle Crash Data



Telling the Story:

