

Data Driven Decision Making with Visualization



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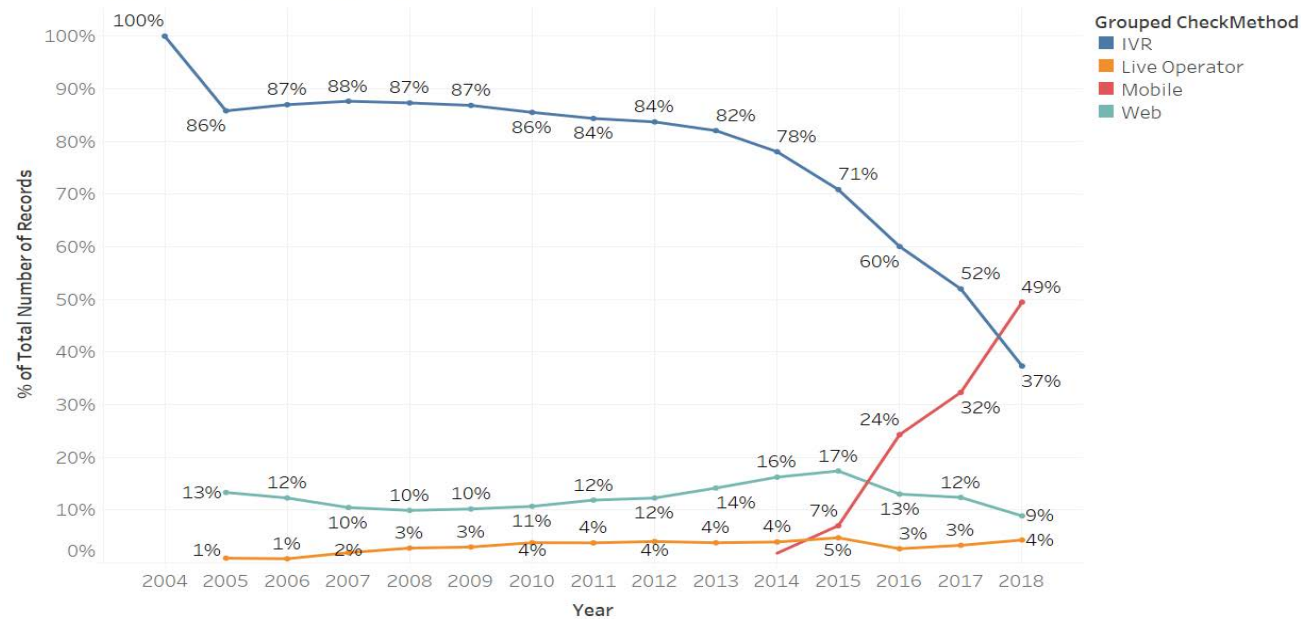
Ha Ha Tonka State Park Lake of the Ozarks, MO



What is Business Intelligence?

- * Visualize Data
- * Interactive Dashboards
- * More Knowledgeable Decisions

Check Method All Categories



Why Tableau?

- * Industry Leader in the field
- * Top notch Training and User Community
- * Uniformity with other State Agencies

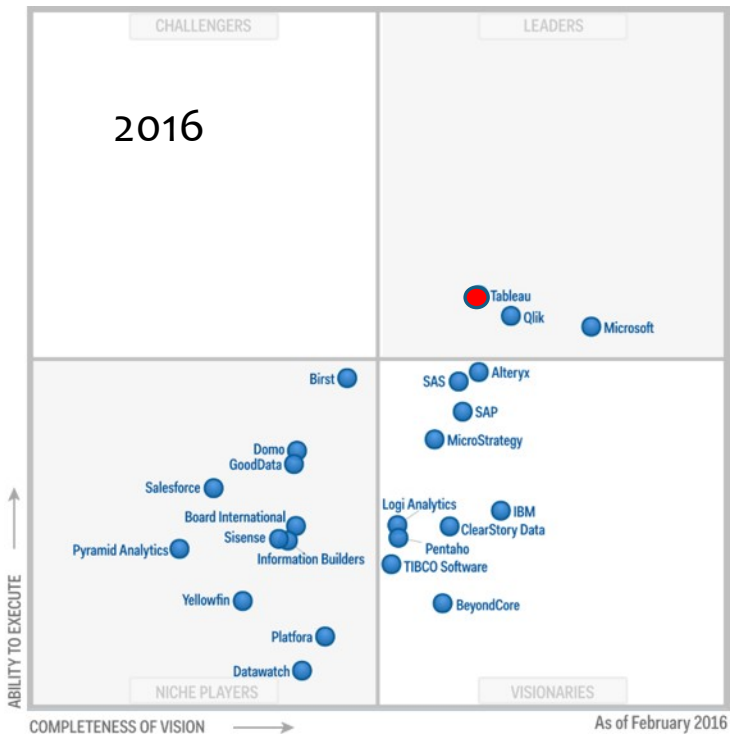


Figure 1. Magic Quadrant for Analytics and Business Intelligence Platforms



Data Governance

- * Data is the key
- * Data quality
- * Useful data
- * Secure data

Data Visualization opens the door to understanding data.

Growth Plan

- * Desired

- * Start small with known data
- * Learn Tableau – Online training and working with data
- * Discover data issues, analyze, and correct
- * Gradually expand visualizations into different data sources

- * Actual

- * “Wow!!! This is Great!! Give me MORE!!”
- * Due to the Commission and Governor October 1st.

MDC Strategic Transformation

- * Three Main goals
 - * Six Strategic outcomes
 - * Multitude of measures
-
- * Our challenge!
 - * Gathering data for defined goals and measures
 - * Building visualizations from these measures

Report vs Visualization

FY 2017 Budget Status - Expense and Equipment and Hourly Labor

	<i>Budget Amount</i>	<i>Paid Amount</i>	<i>Outstanding Obligations</i>	<i>Total Budget Remaining</i>	<i>Total Budget % Remaining</i>
Total Expense:	68,409,694.00	41,257,159.98	N/A	27,152,534.02	39.69%
Total Equipment:	6,868,461.00	6,773,606.96	N/A	94,854.04	1.38%
* Personal Service:	6,143,364.00	4,008,850.41	N/A	2,134,513.59	34.75%
Total Construction:	0.00	72,984.65	N/A	-72,984.65	0.00%
GRAND TOTAL:	81,421,519.00	52,112,623.95			

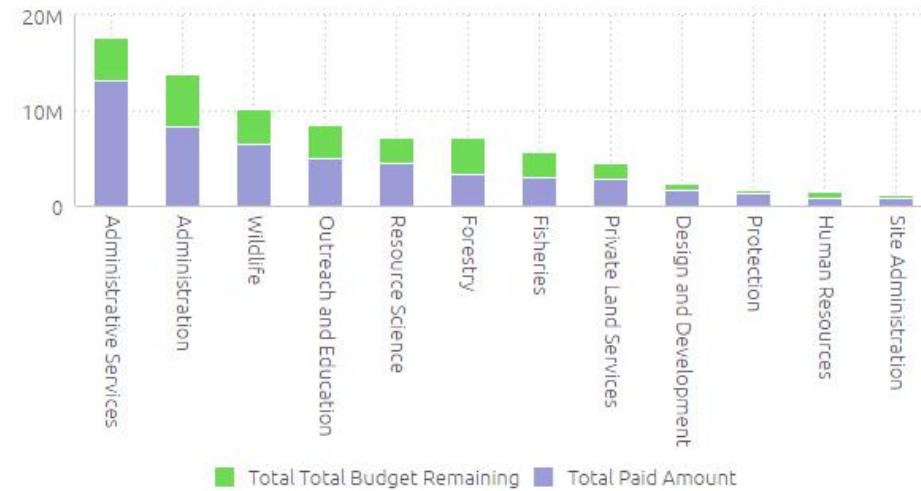
This Year Budget To Expend \$

TOTAL PAID AMOUNT

51.19M

Total Budget Amount 81.42M

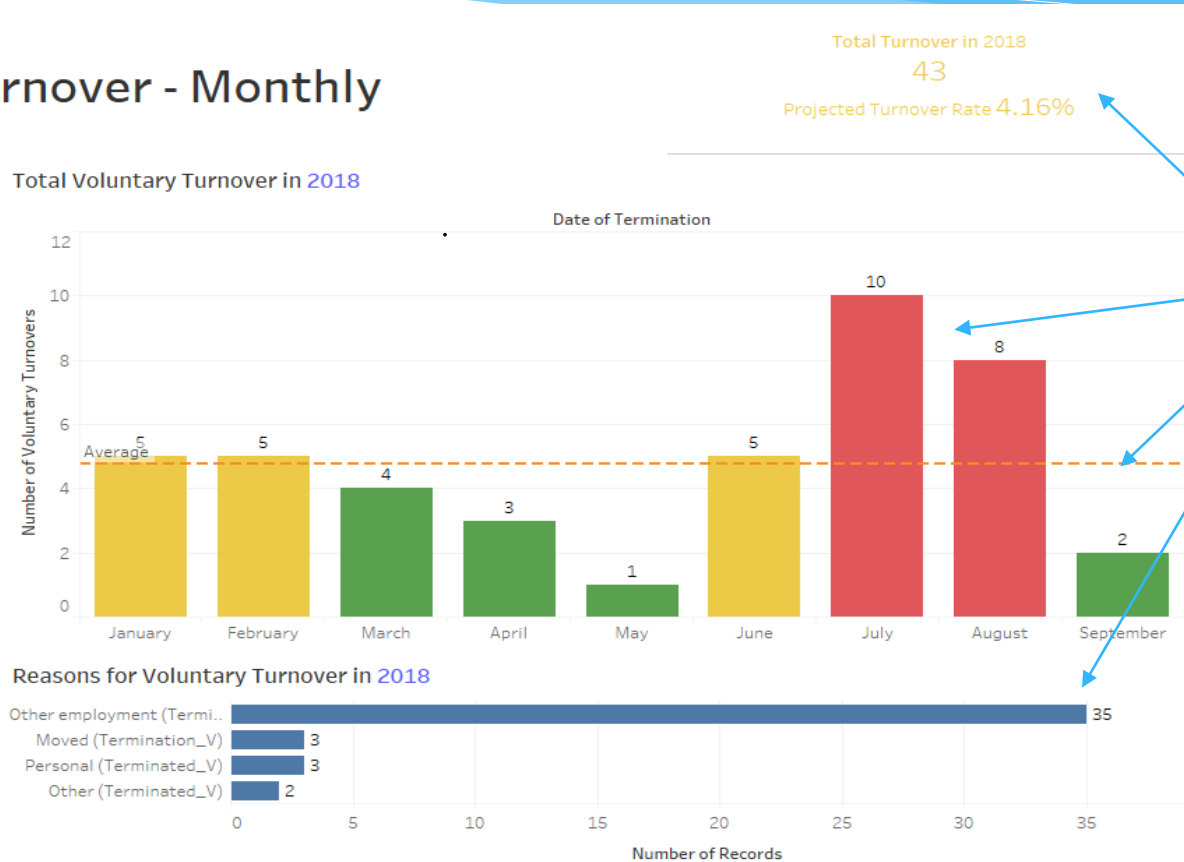
This Year Budget To Expend \$



Monthly Turnover

MDC Turnover - Monthly

Select Year
2018

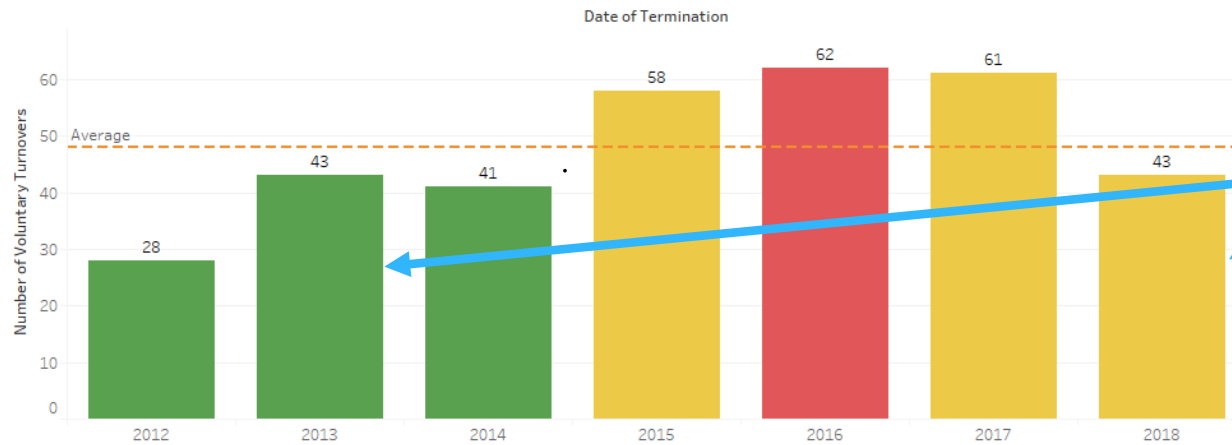


Points to notice

- Color based on projections
- Monthly color based on criteria
- Average Line(changes with selection)
- Quickly see why people are leaving

Yearly Turnover

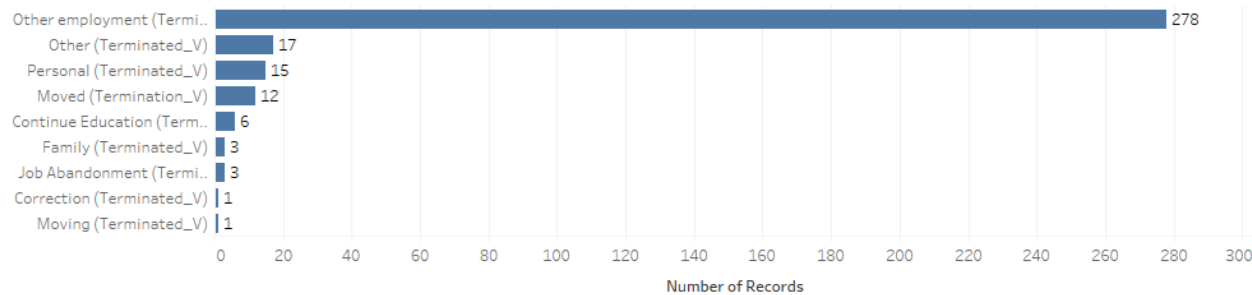
Total Voluntary Turnover Last 7 Years



Points to notice

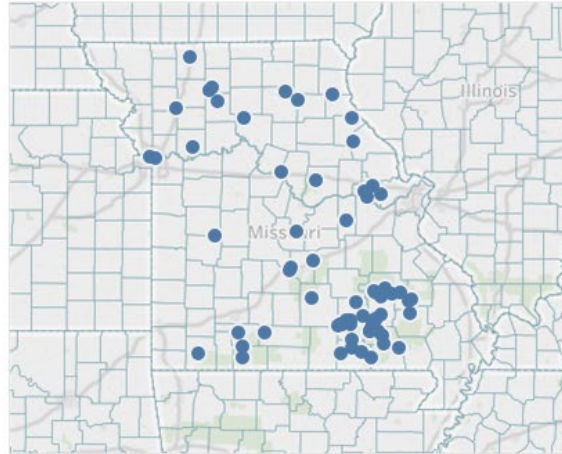
2018 is Yellow but 2013 has the same number and is Green. Projected Vs. Actual

Reasons for Voluntary Turnover Last 7 Years

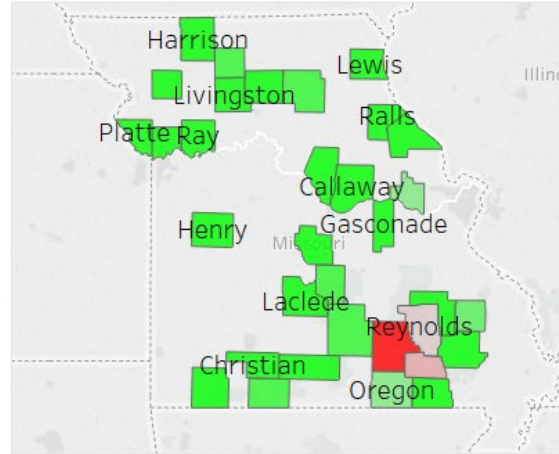


Mountain Lion Sightings

Specific Location



By County

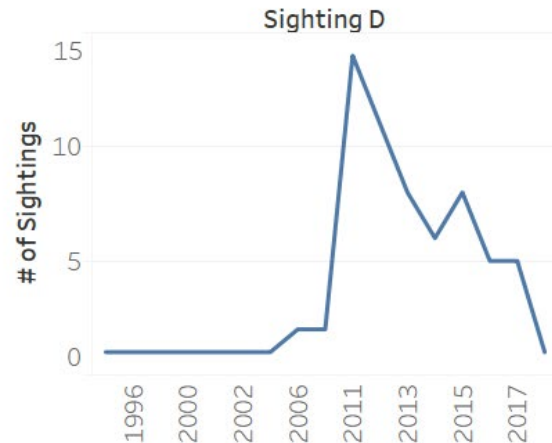


County
All

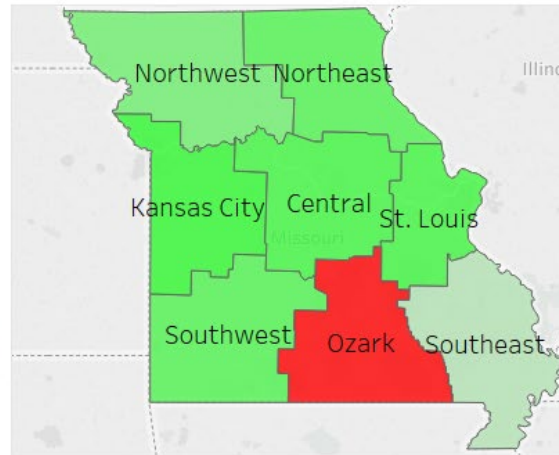
Count of Numbe..
1 12

Records with All ..
0 30

By Year



By Region



Geography based on another field

CONFIRMED_MOUNTAIN_LI... | tblkCounty | tblkRegion

Sort fields | Data source order | Show aliases | Show hidden fields | 153

Sex	Age	Evidence	Shape	Cou Name	X Coordina ...	Y Coordina ...
Male	Adult	Elk Carcass/T...	UNKNOWN	Shannon	1	37.10820
unknown	unknown	photo	UNKNOWN	Iron	1	37.49095
unknown	unknown	photo	UNKNOWN	Madison	38970	-90.5219
Unknown	Unknown	Video	UNKNOWN	Ralls	65510	-91.4296
Unknown	Unknown	Photo	UNKNOWN	Pike	37116	-91.4066
Male	Subadult	Lion Carcass	UNKNOWN	Warren	81957	-91.0997
Unknown	Unknown	Photo	UNKNOWN	Reynolds	43916	-90.9627
Unknown	Unknown	Photo	UNKNOWN	Oregon	65786	-91.1338

Geographic Role dropdown options:

- None
- Airport
- Area Code (U.S.)
- CBSA/MSA (U.S.)
- City
- Congressional District (U.S.)
- Country/Region
- County
- NUTS Europe
- State/Province
- ZIP Code/Postcode
- Cou Name
- County

Side Note:
As long as you have a key field, you can connect tables from any source. MDC has connected SQL, Oracle, and Excel and all combinations of those for dashboards.

Questions?



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