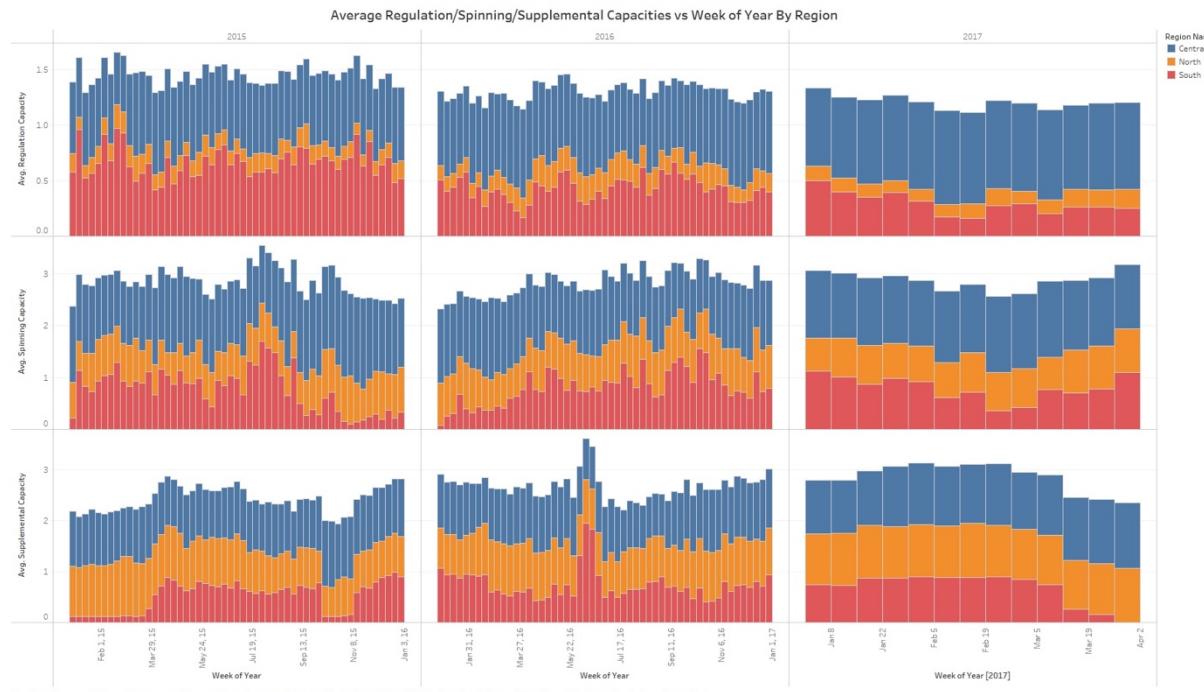


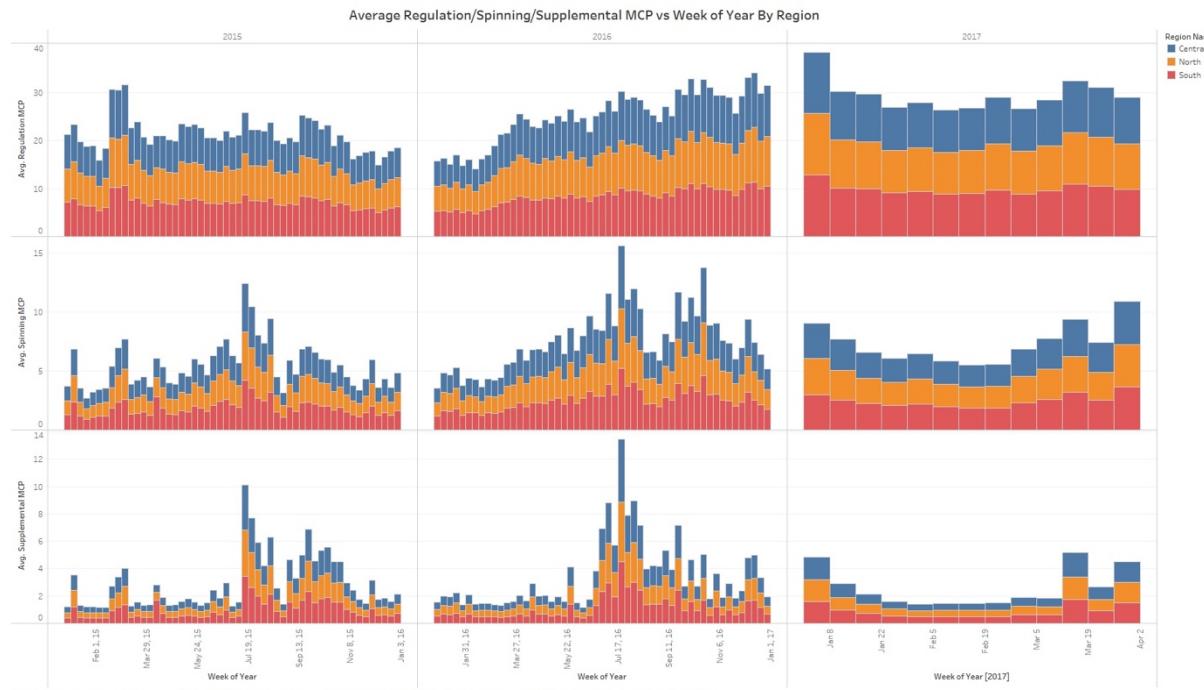
## TABLEAU PLOTS

AUTHOR: Omkar Sunkersett, University of Michigan, Ann Arbor

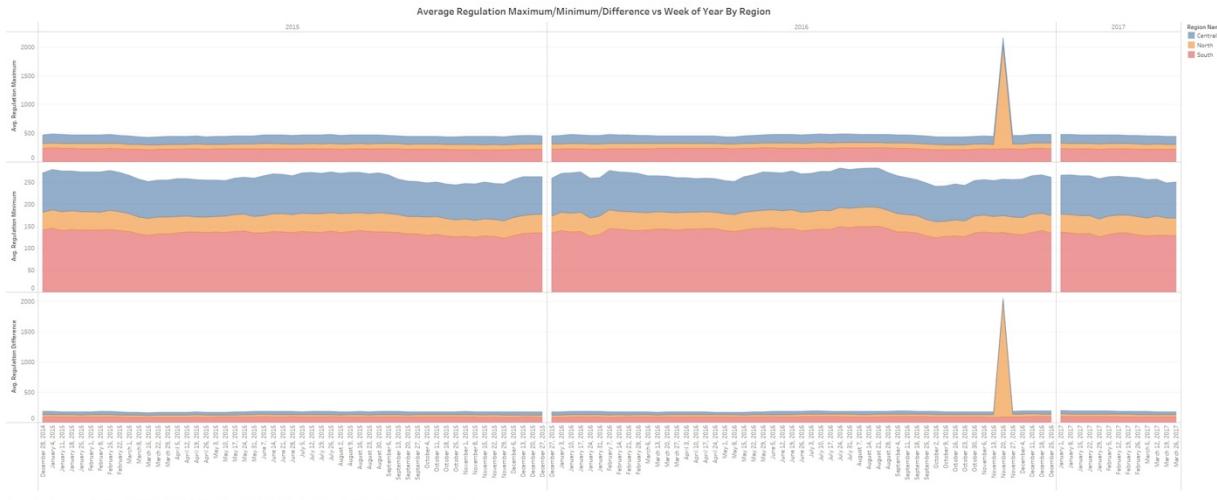
### Midcontinent Independent System Operator (MISO)



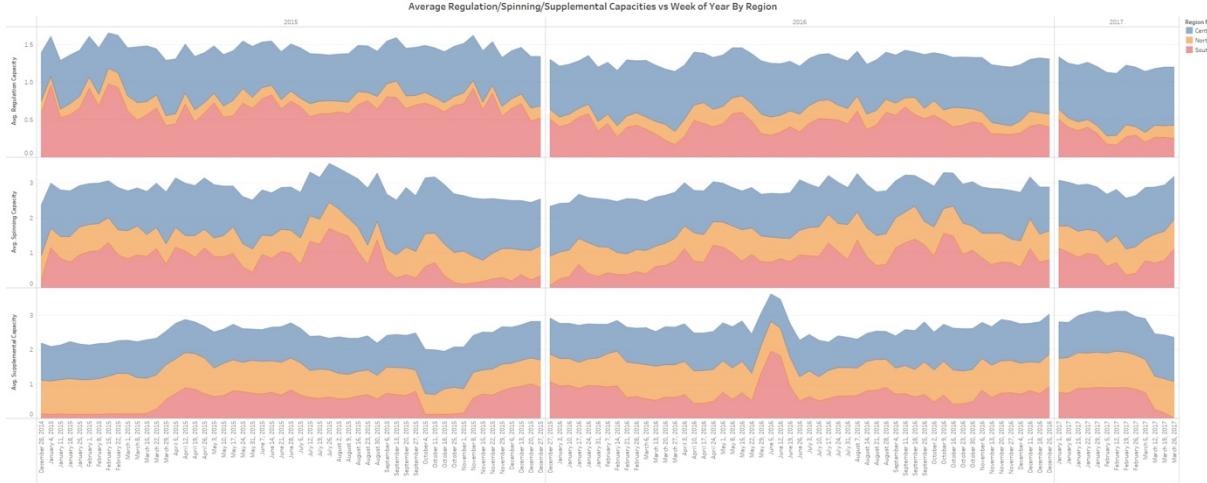
The plots of average of Regavg Cap, average of Spinvng Cap and average of Suppavg Cap for Interval Start Week broken down by Interval Start Year. Color shows details about Region Name.



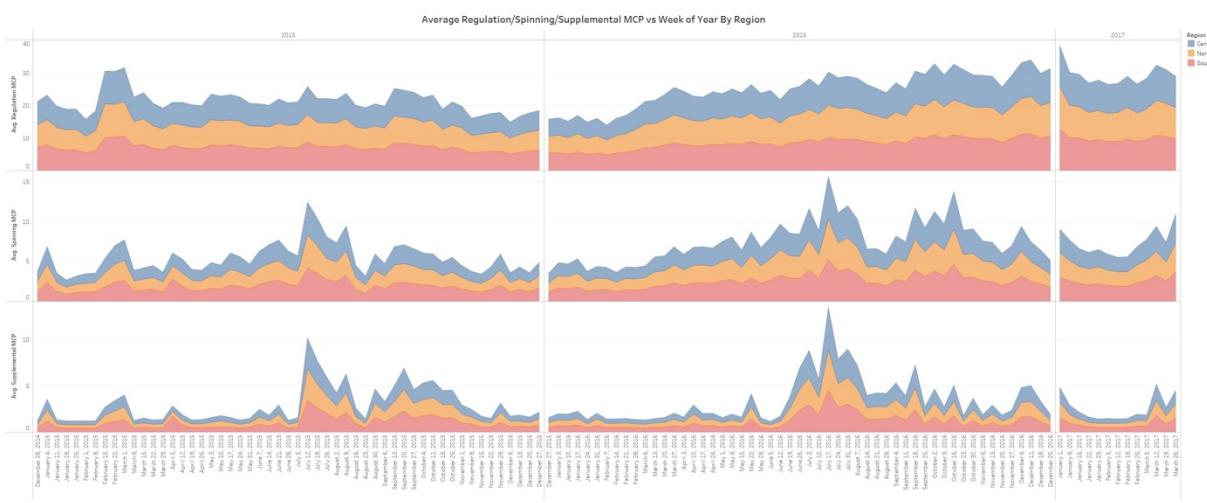
The plots of average of Regavg Mcp, average of Spinvng Mcp and average of Suppavg Mcp for Interval Start Week broken down by Interval Start Year. Color shows details about Region Name.



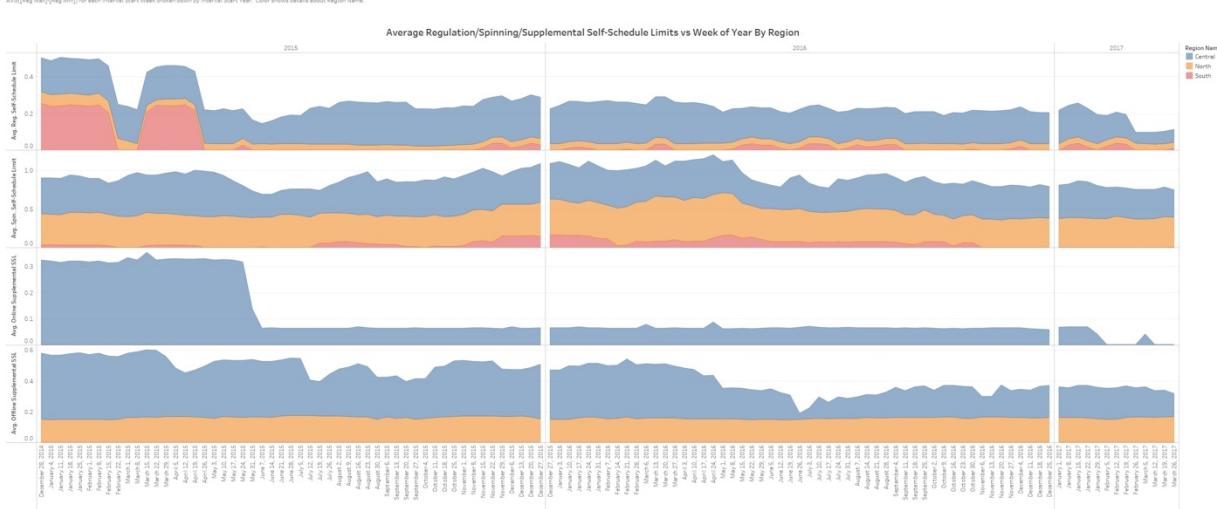
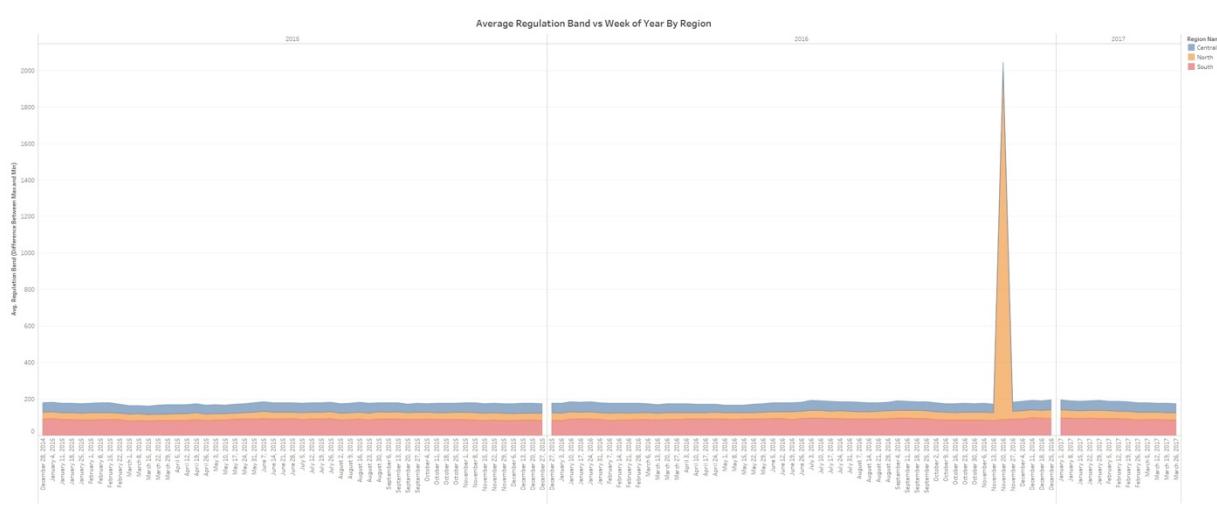
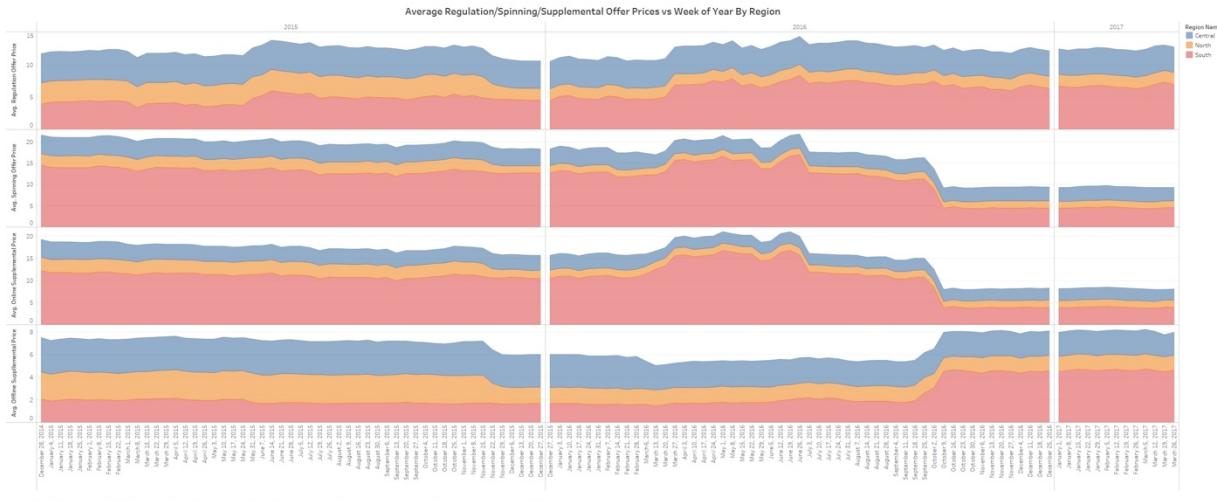
Average of Reg Min, average of Reg Min and AVE[Reg Max]-[Reg Min] for each Interval Start Week broken down by Interval Start Year. Color shows details about Region Name.

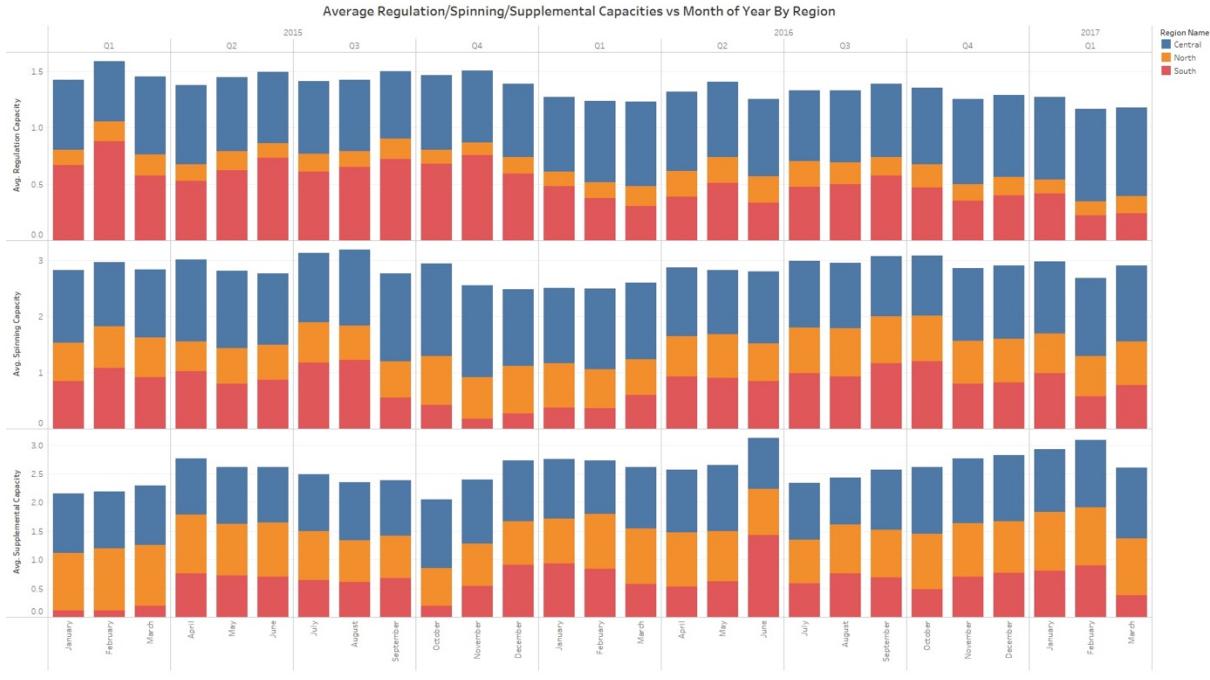


Average of Peaking Cap, average of Spinning Cap and average of Supplemental Cap for each Interval Start Week broken down by Interval Start Year. Color shows details about Region Name.

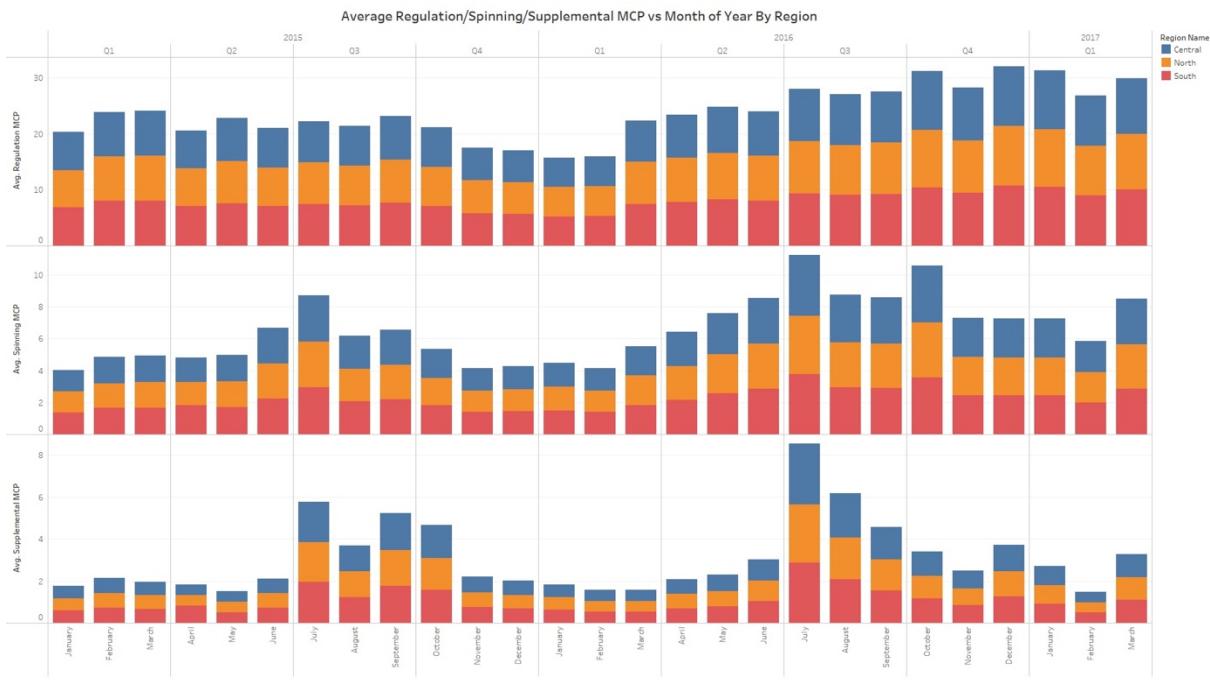


Average of Peaking MCP, average of Spinning MCP and average of Supplemental MCP for each Interval Start Week broken down by Interval Start Year. Color shows details about Region Name.

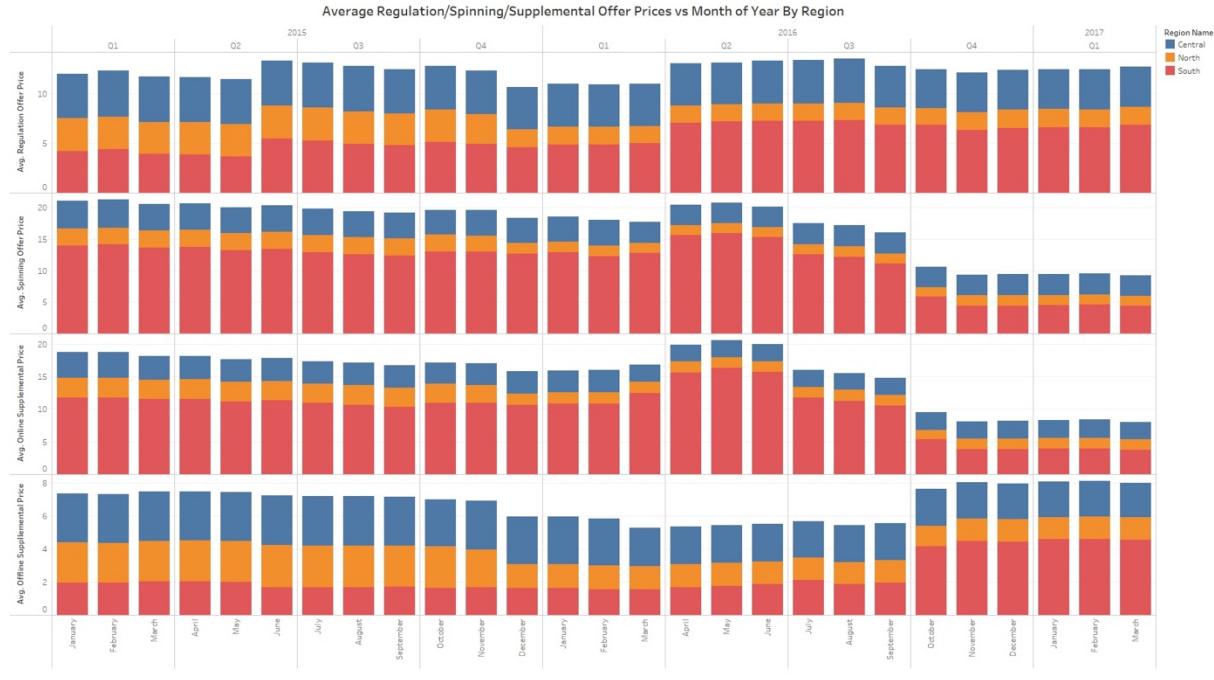




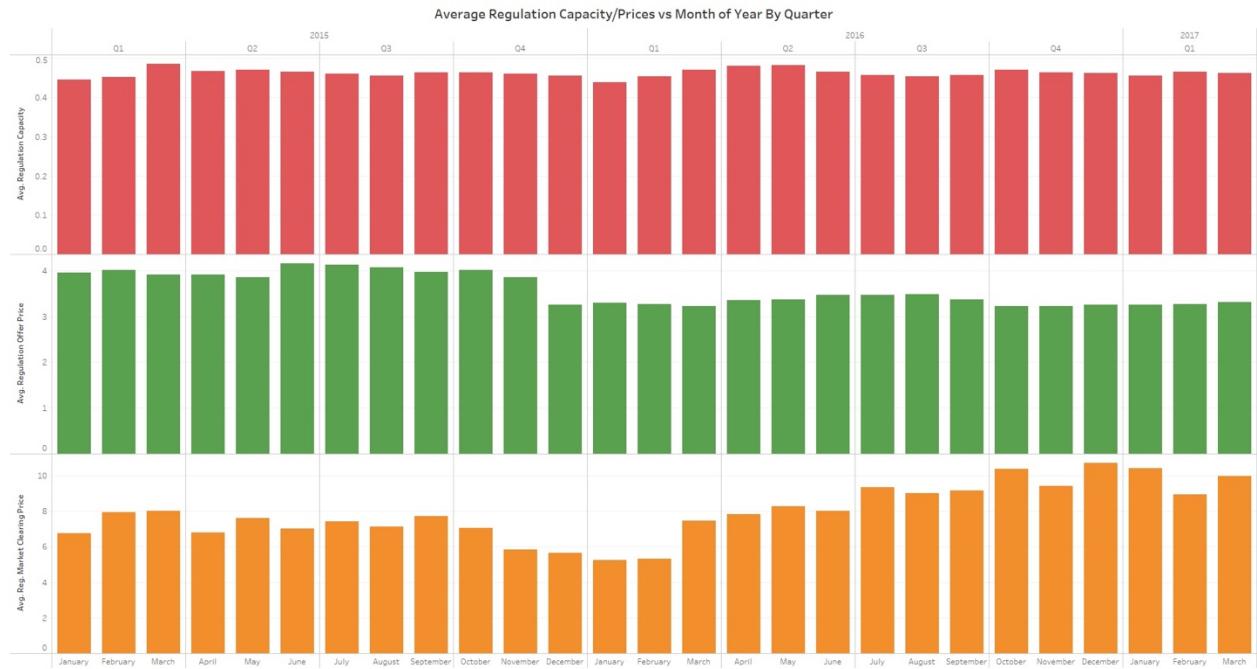
Average of RegAvg Cap, average of SpinnAvg Cap and average of SuppAvg Cap for each interval Start Month broken down by Interval Start Year and Interval Start Quarter. Color shows details about Region Name.



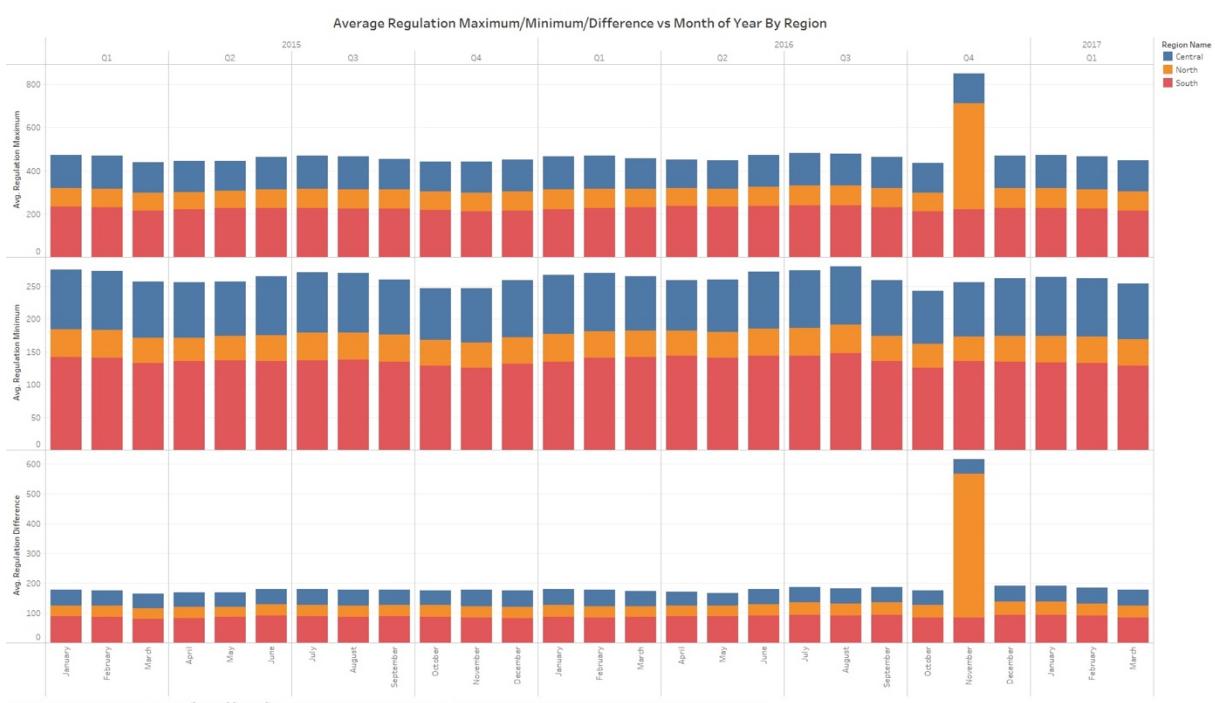
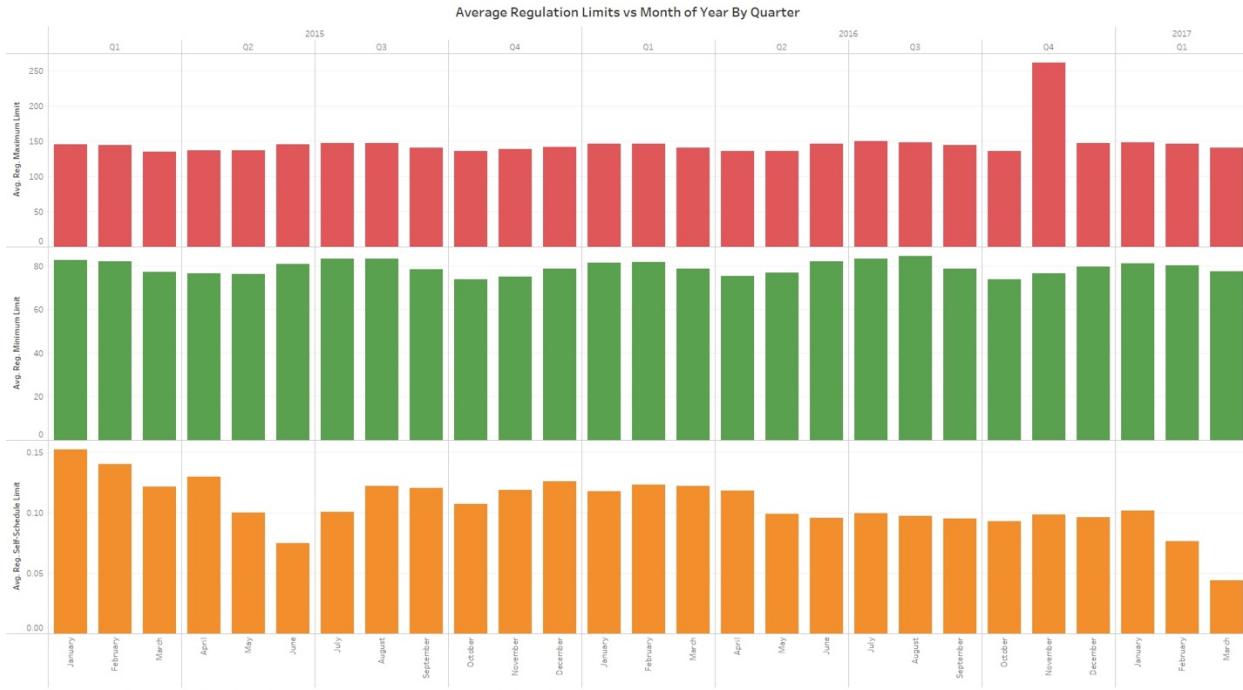
Average of RegAvg Mcp, average of SpinnAvg Mcp and average of SuppAvg Mcp for each interval Start Month broken down by Interval Start Year and Interval Start Quarter. Color shows details about Region Name.

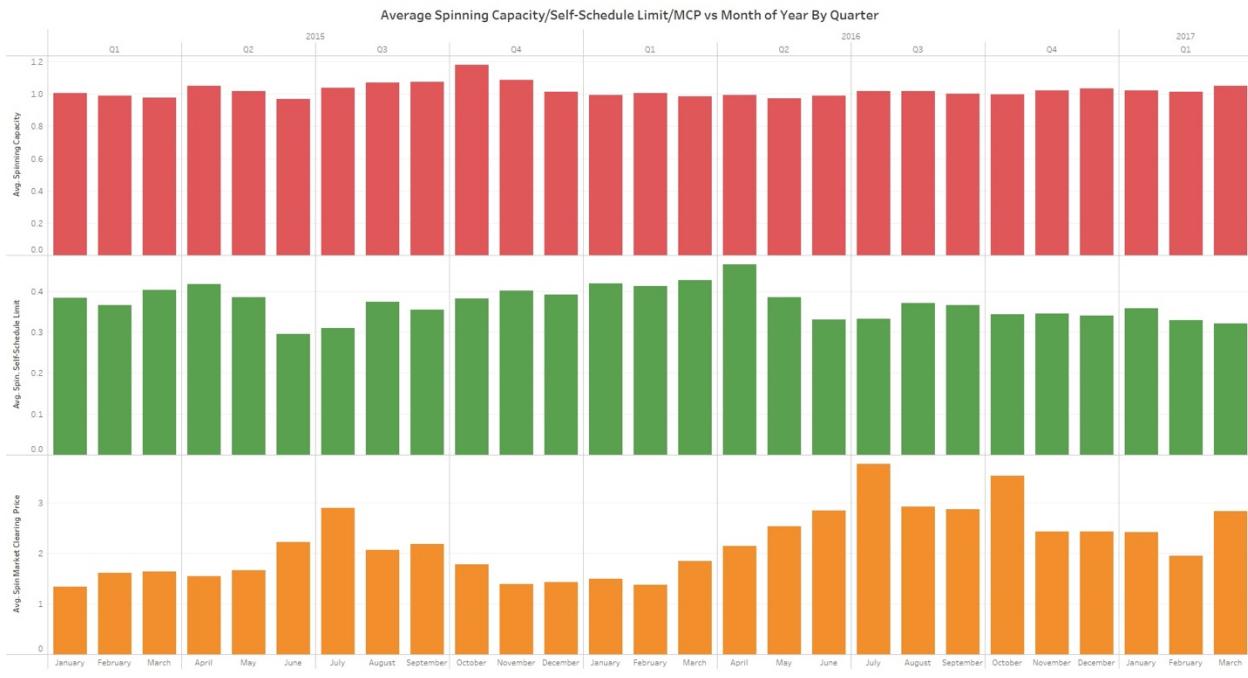


Average of Regoff Price, average of Spinoff Price, average of Onsupp Price and average of Offsupp Price for each Interval Start Month broken down by Interval Start Year and Interval Start Quarter. Color shows details about Region Name.

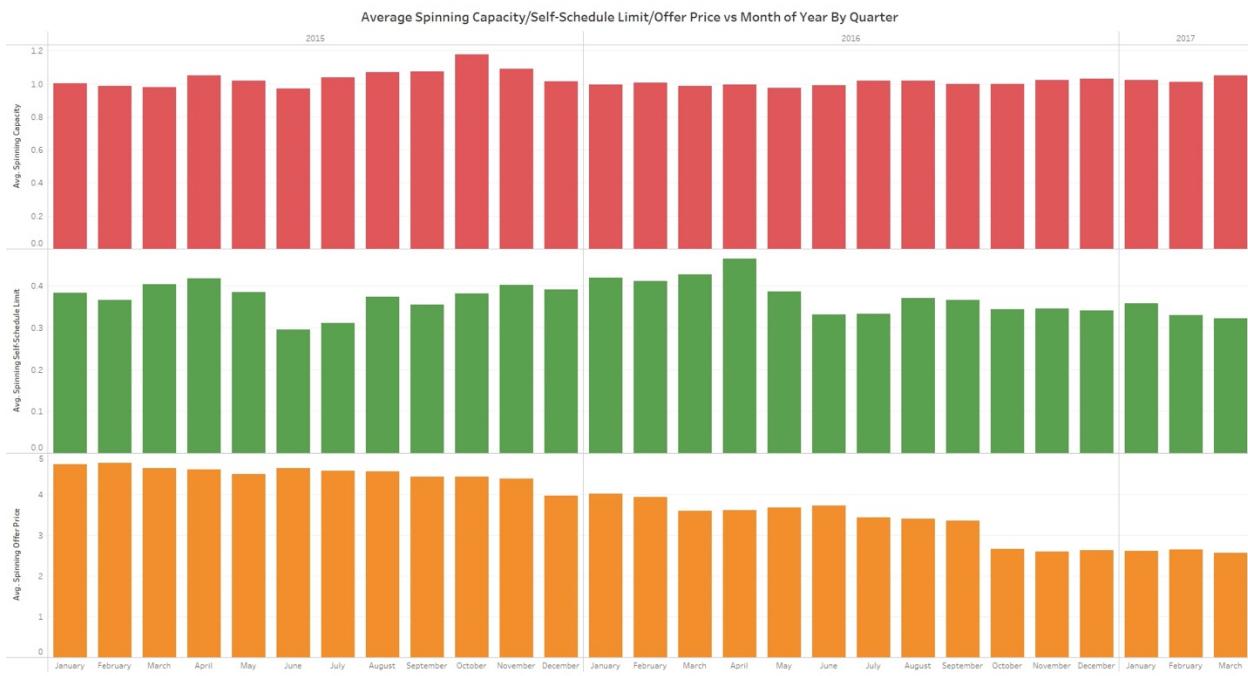


Average of RegCap, average of Regoff Price and average of Regavg Mcp for each Interval Start Month broken down by Interval Start Year and Interval Start Quarter.

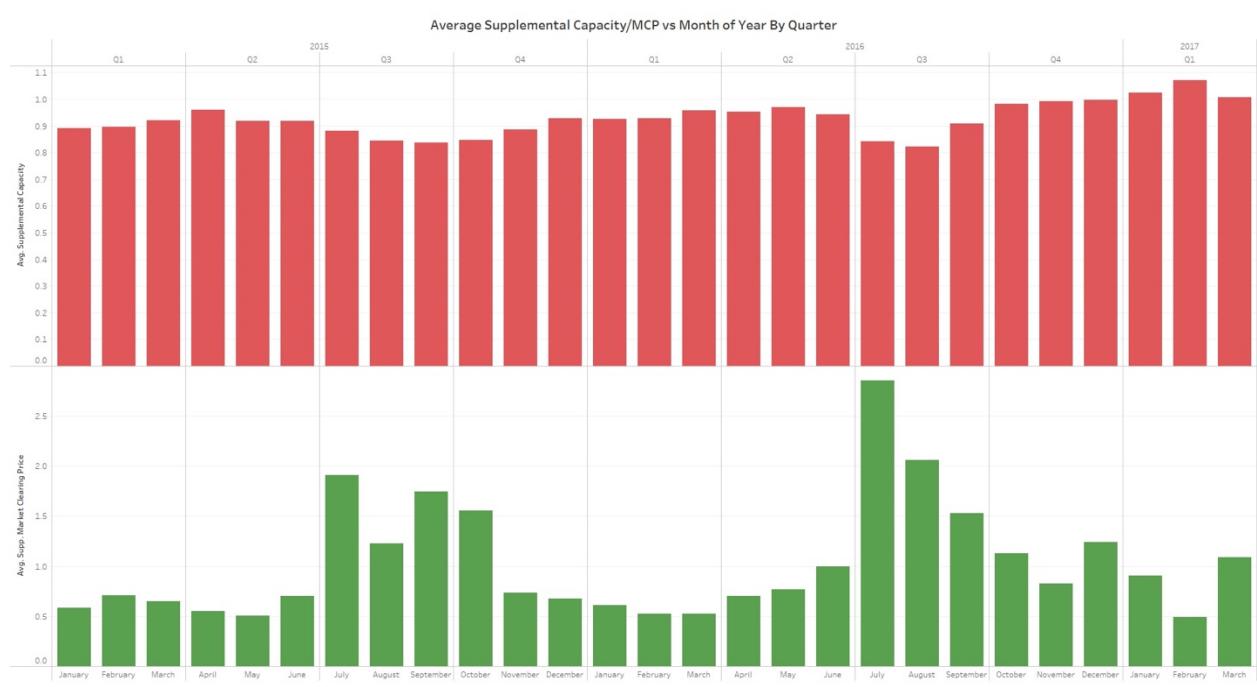
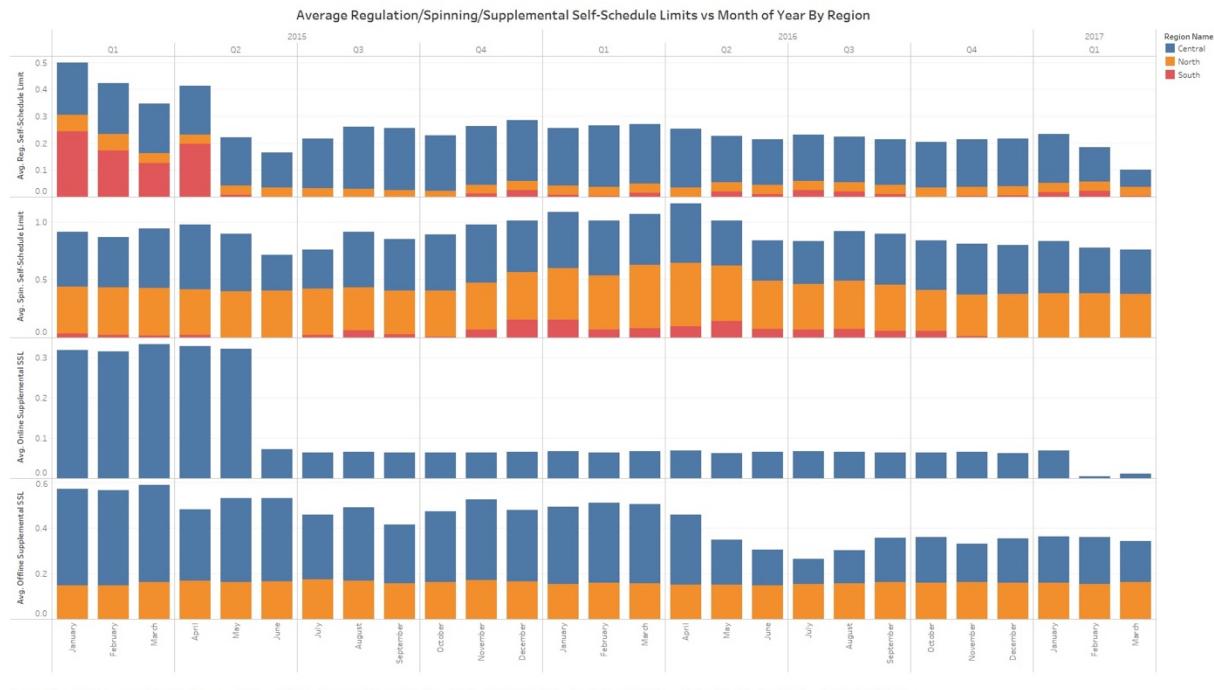


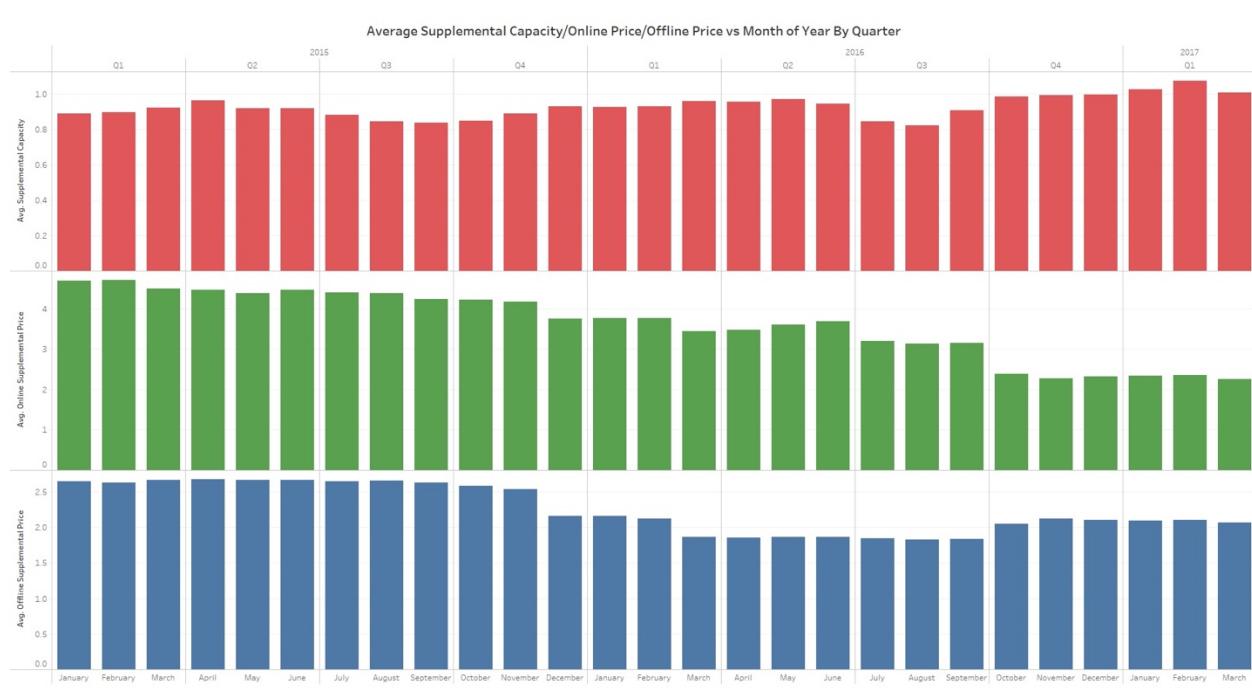
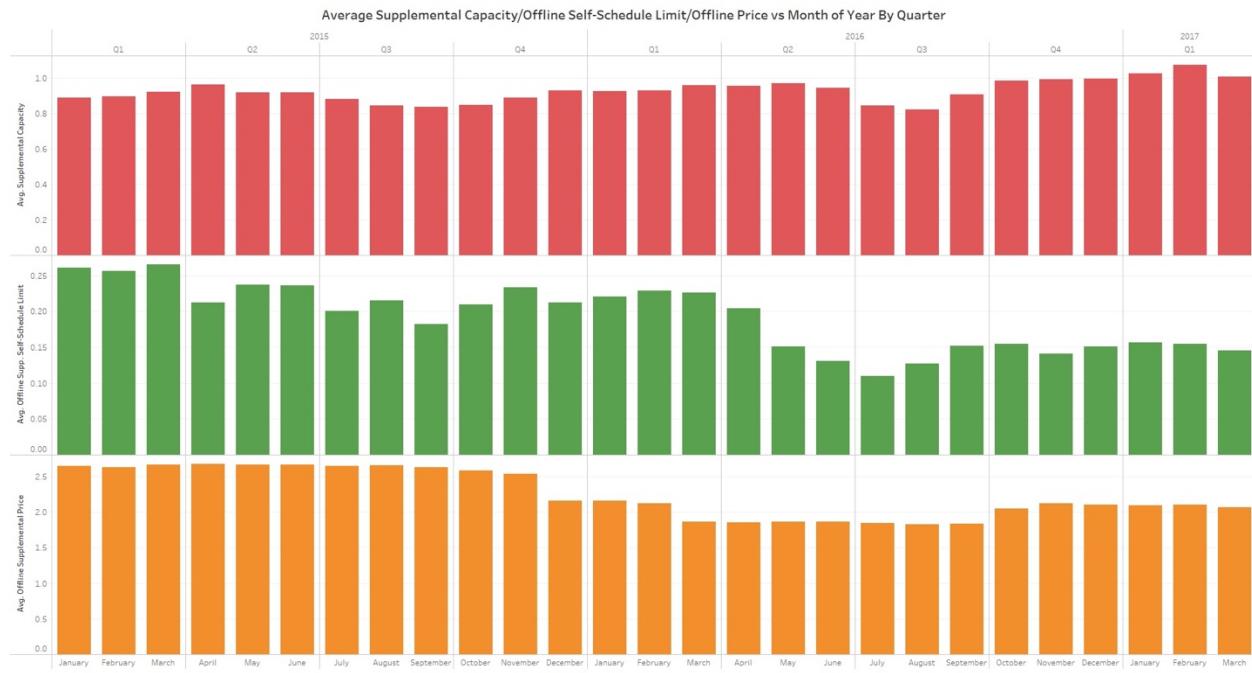


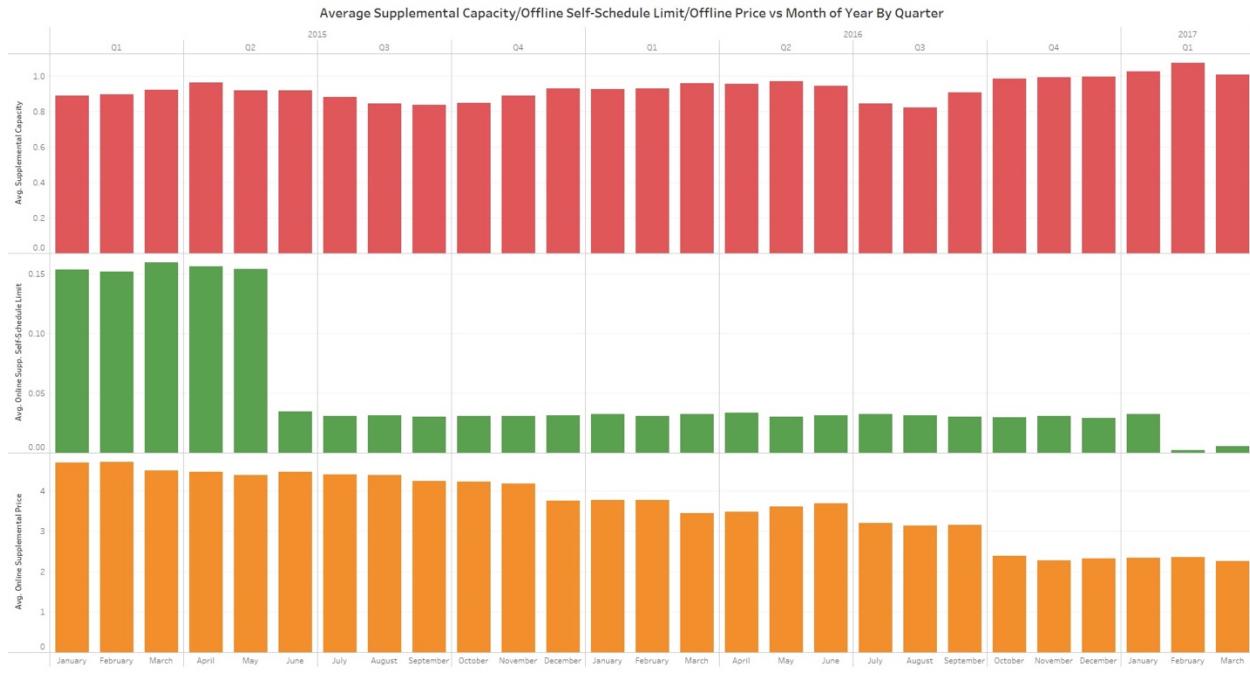
Average of Spinning Cap, average of Spinsell Limit and average of Spinsav MCP for each Interval Start Month broken down by Interval Start Year and Interval Start Quarter.



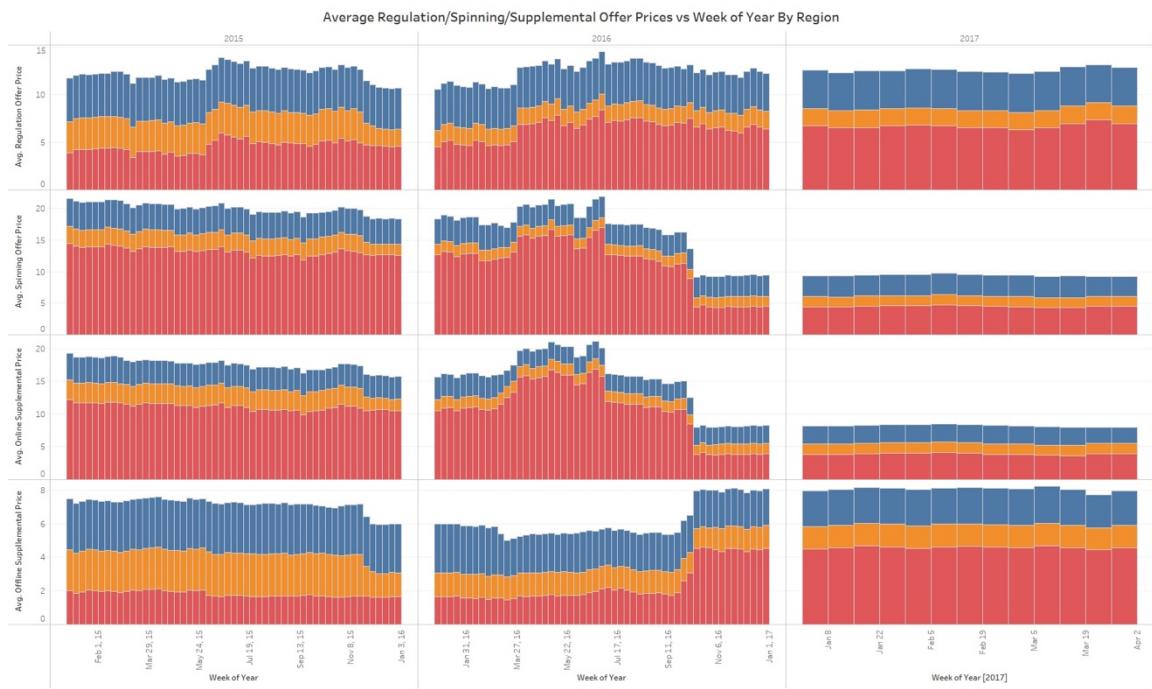
Average of Spinning Cap, average of Spinsell Limit and average of Spinsav Offer Price for each Interval Start Month broken down by Interval Start Year.

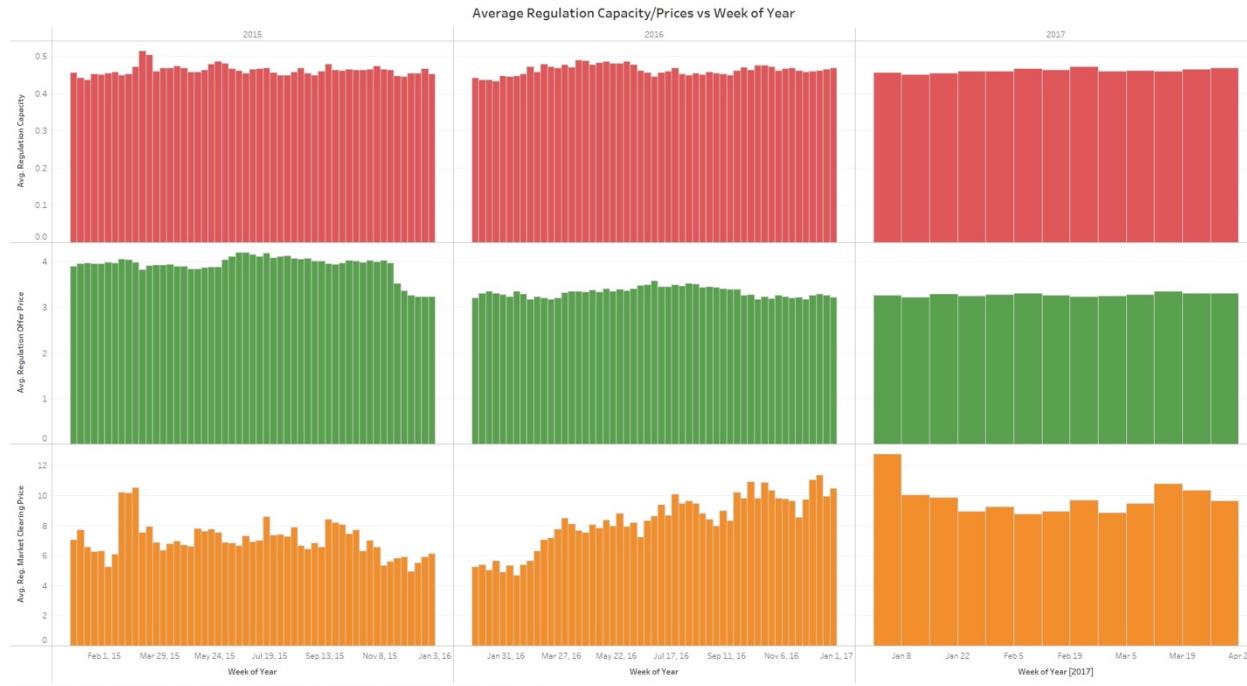




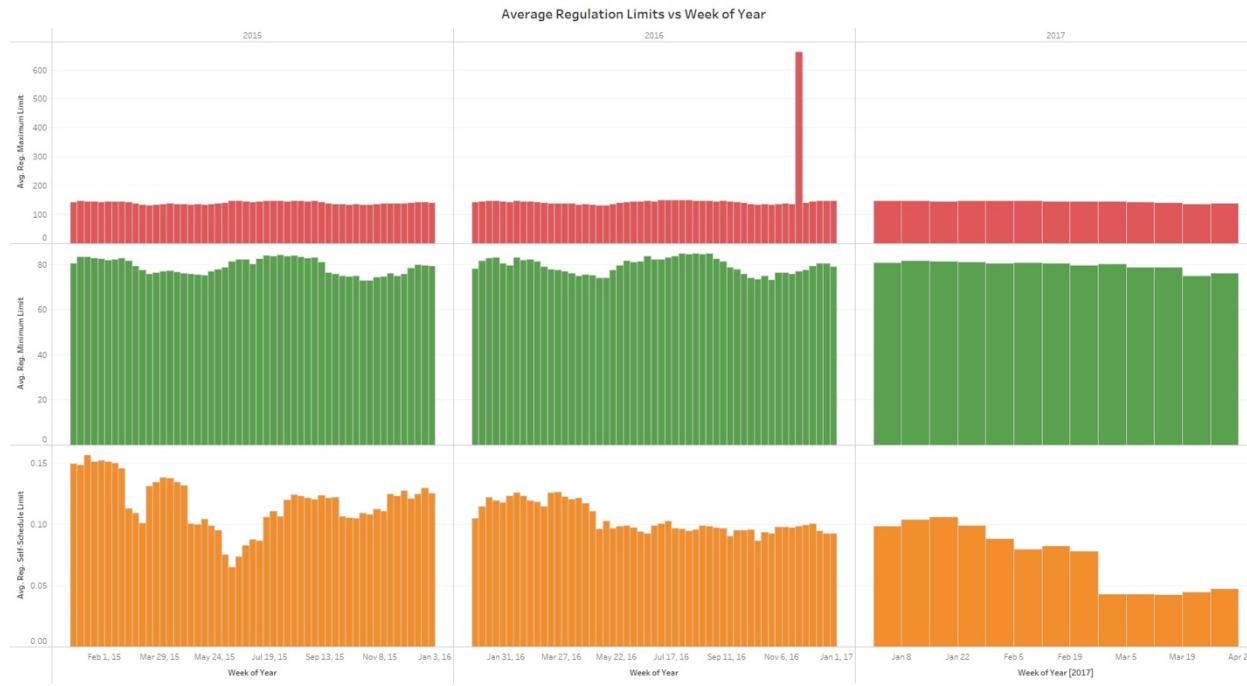


Average of Supavg Cap, average of Onsupself Limit and average of Onsup Price for each Interval Start Month broken down by Interval Start Year and Interval Start Quarter.

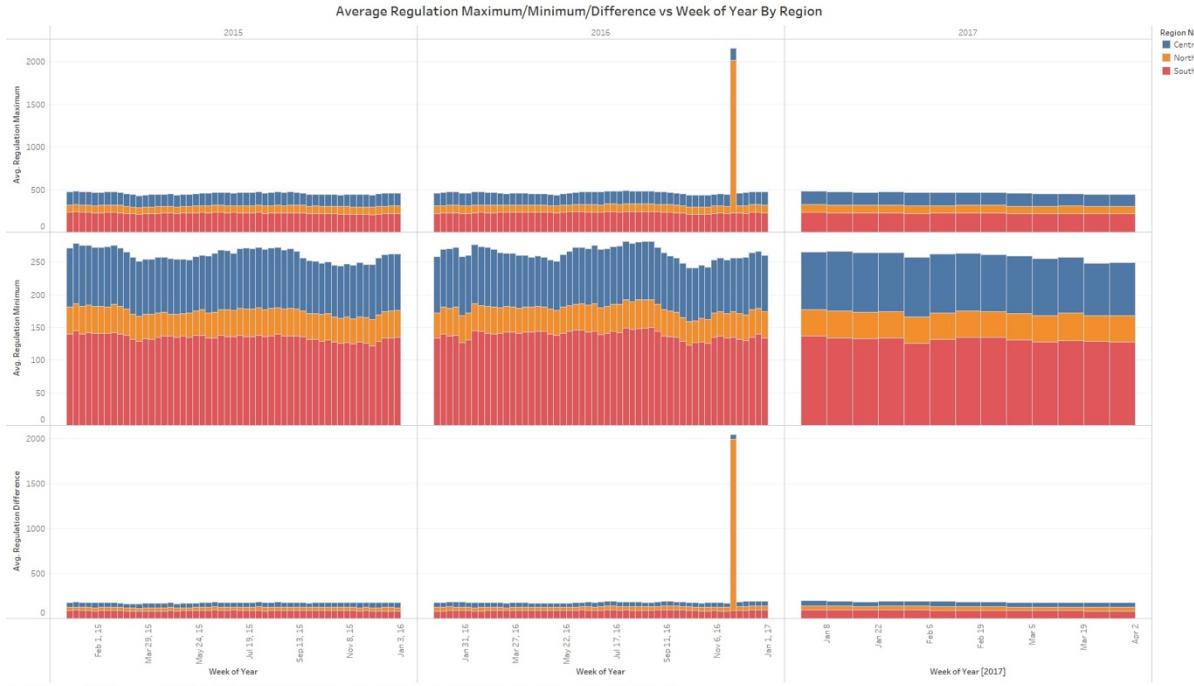




The plots of average of Regavg Cap, average of Regoff Price and average of Regavg Mcp for Interval Start Week broken down by Interval Start Year.



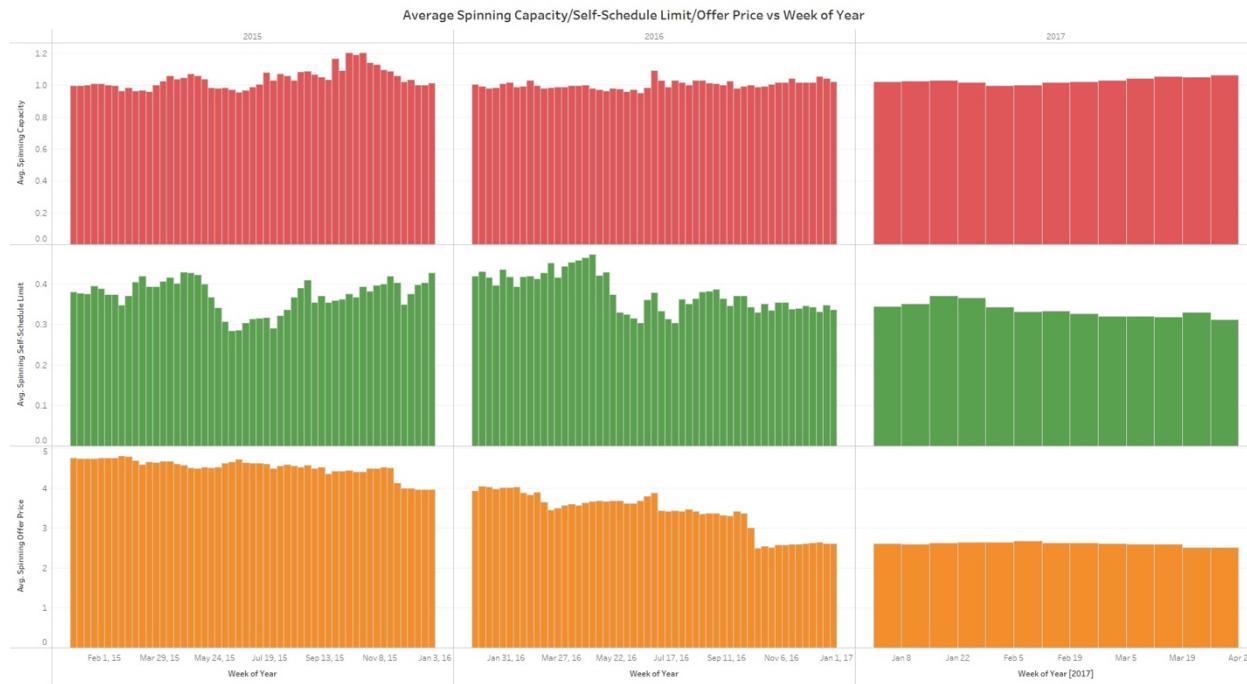
The plots of average of Reg Max, average of Reg Min and average of Regself Limit for Interval Start Week broken down by Interval Start Year.



The plots of average of Reg Max, average of Reg Min and AVG([Reg Max]-[Reg Min]) for Interval Start Week broken down by Interval Start Year. Color shows details about Region Name.



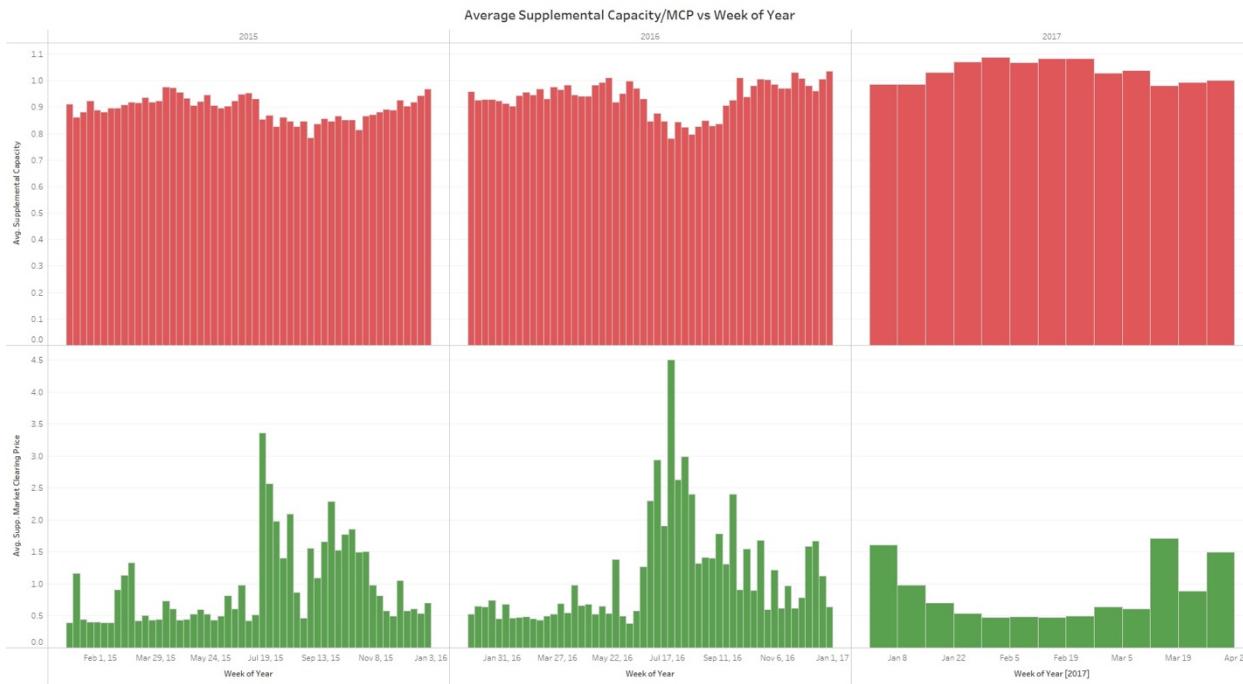
The plots of average of Spinning Cap, average of Spinslf Limit and average of Spinsvg Mcp for Interval Start Week broken down by Interval Start Year.



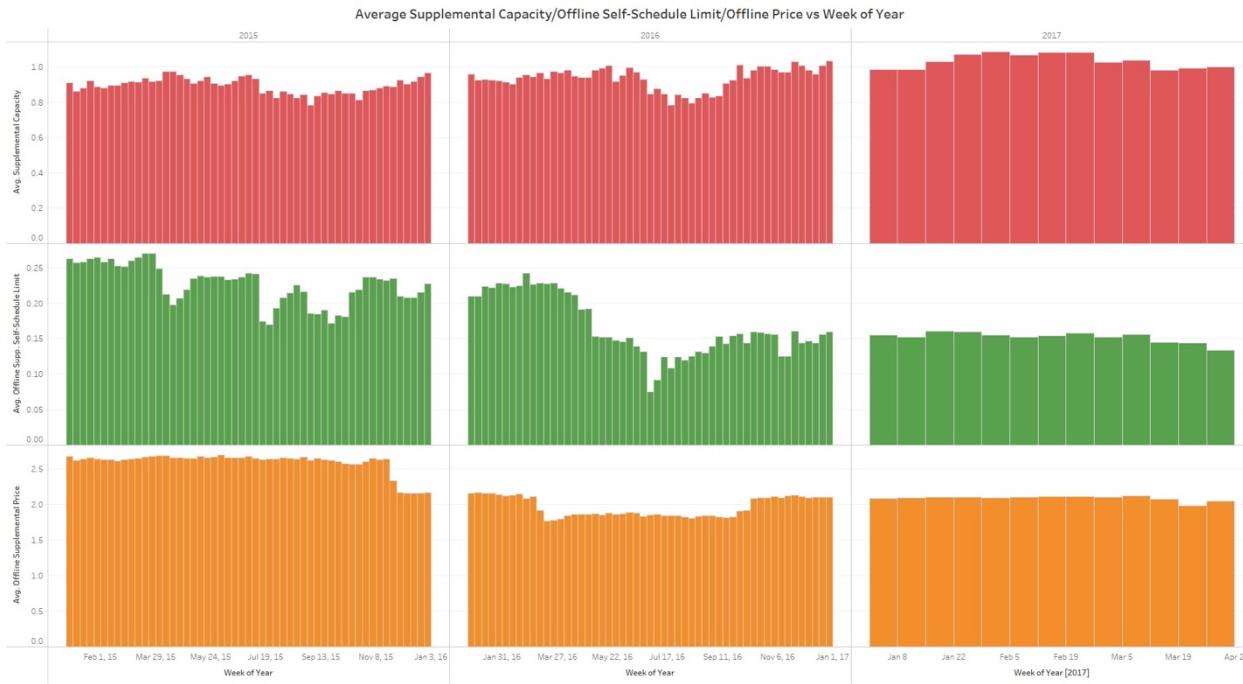
The plots of average of Spinevg Cap, average of Spinselv Limit and average of Spinnoff Price for Interval Start Week broken down by Interval Start Year.



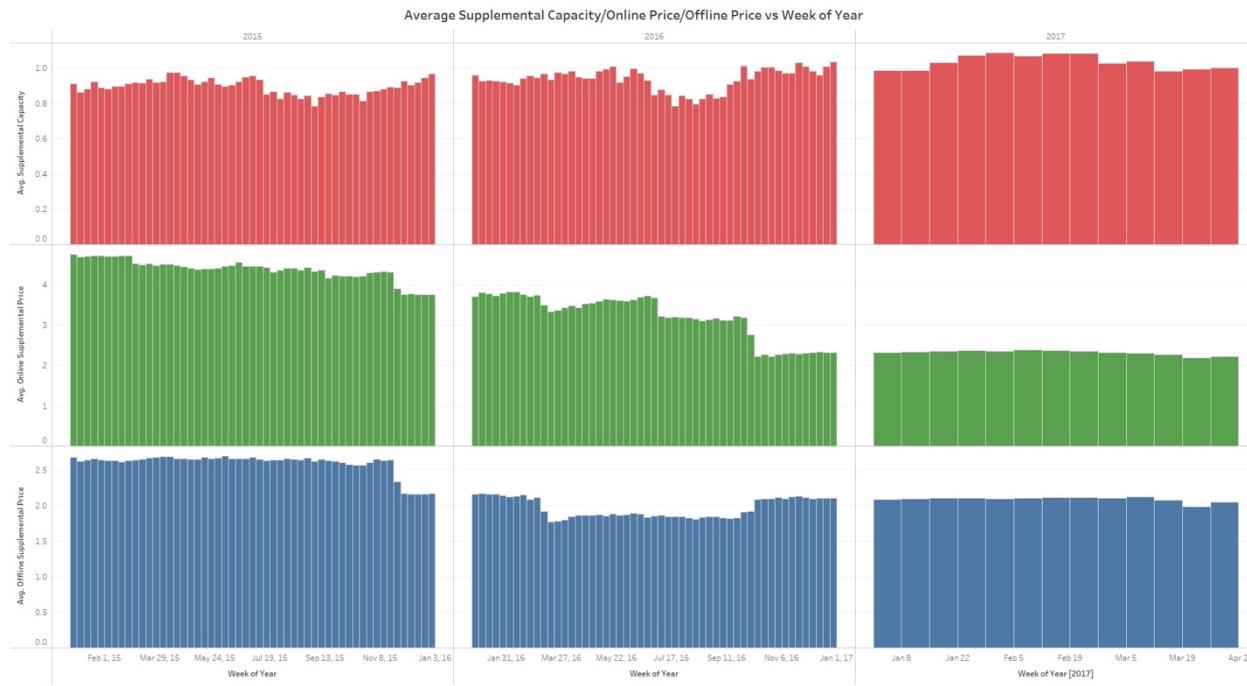
The plots of average of Regself Limit, average of Spinselv Limit, average of Onsuppself Limit and average of Offsuppself Limit for Interval Start Week broken down by Interval Start Year. Color shows details about Region Name.



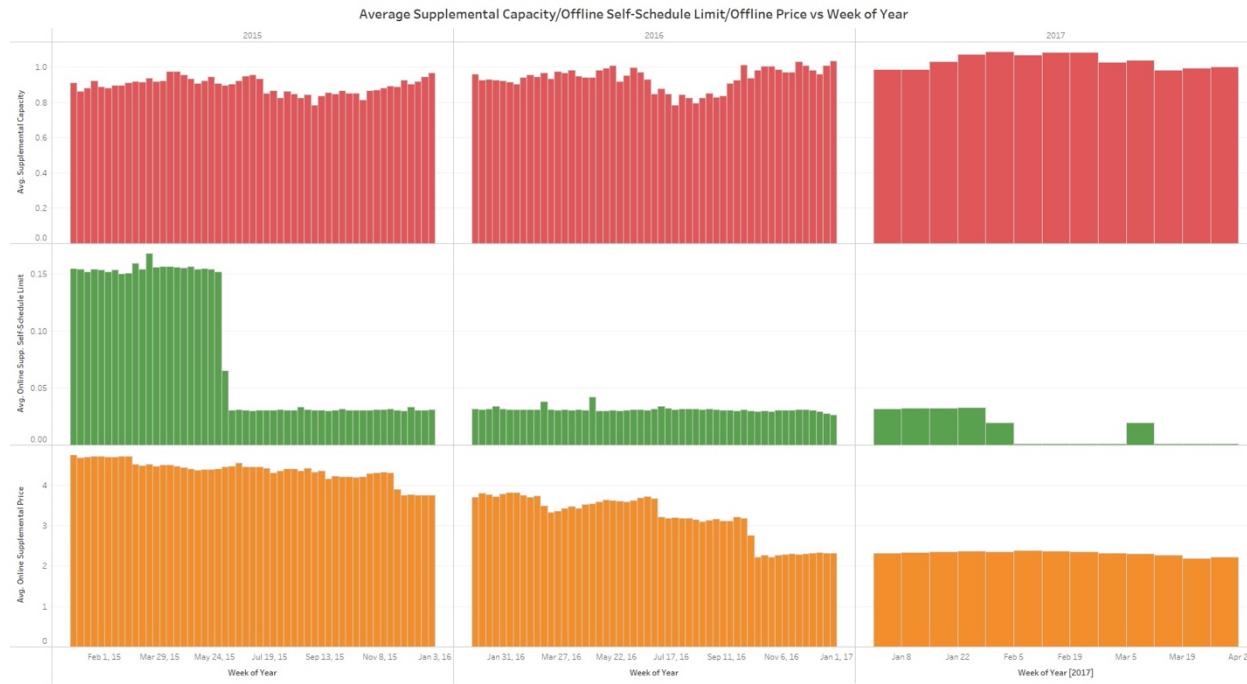
The plots of average of Suppavg Cap and average of Suppavg MCP for Interval Start Week broken down by Interval Start Year.



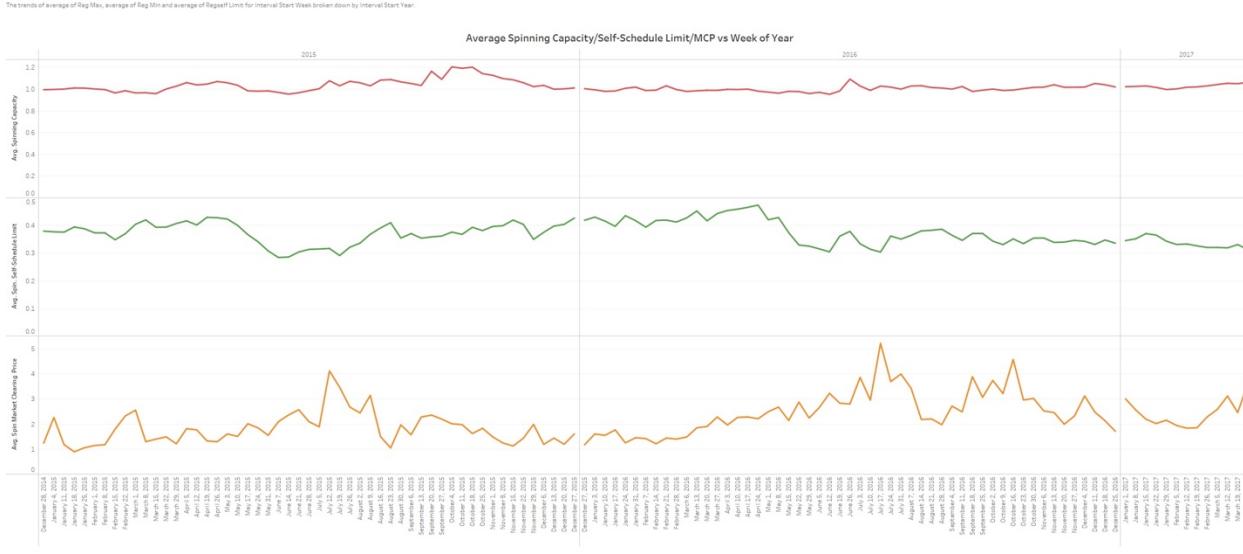
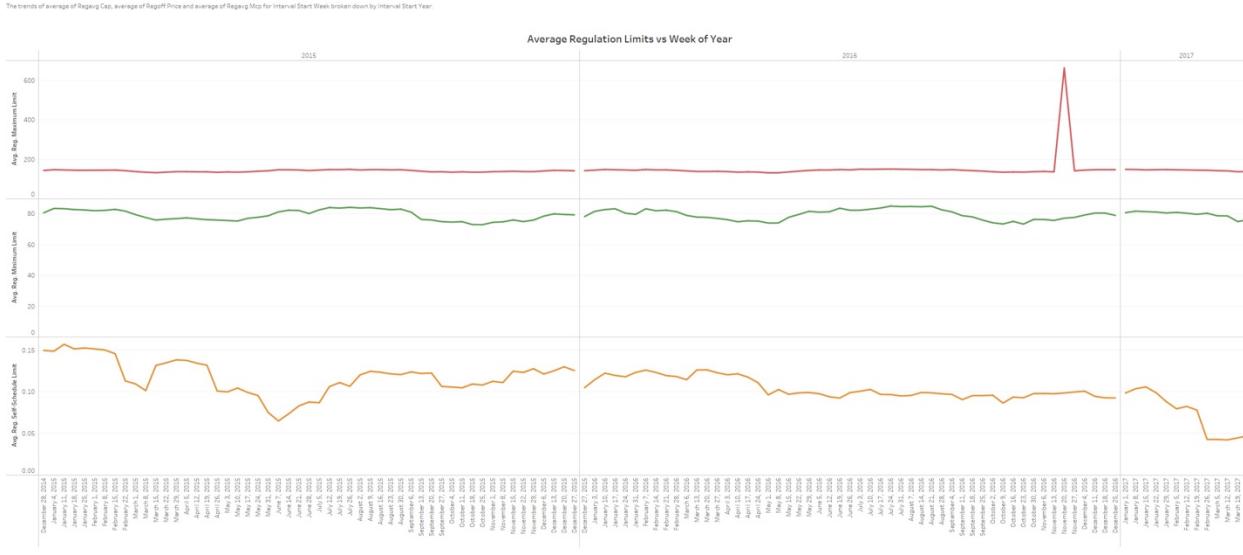
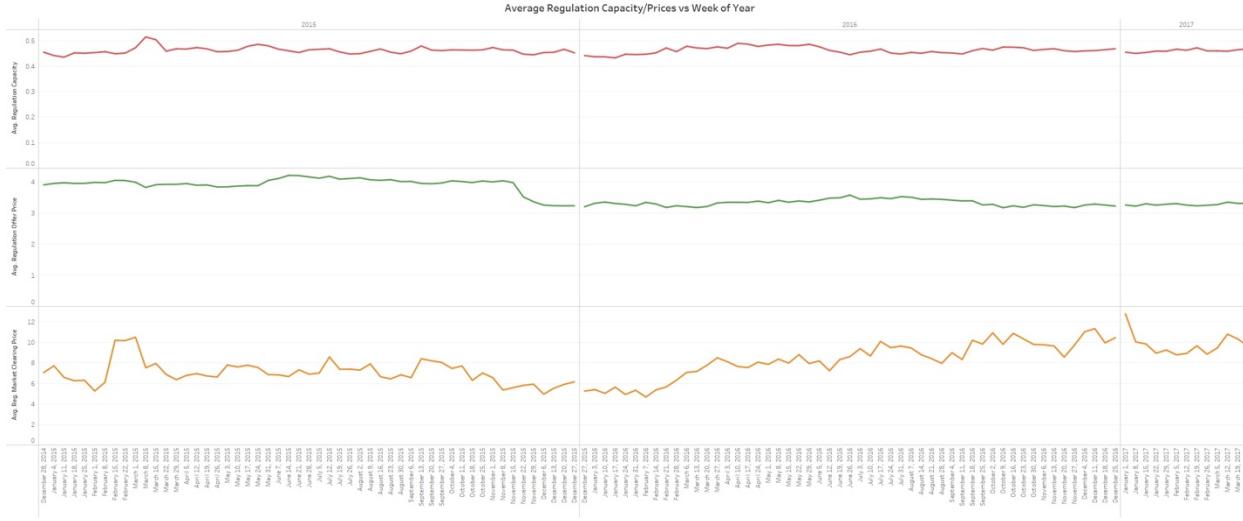
The plots of average of Suppavg Cap, average of OffSuppself Limit and average of OffSupp Price for Interval Start Week broken down by Interval Start Year.

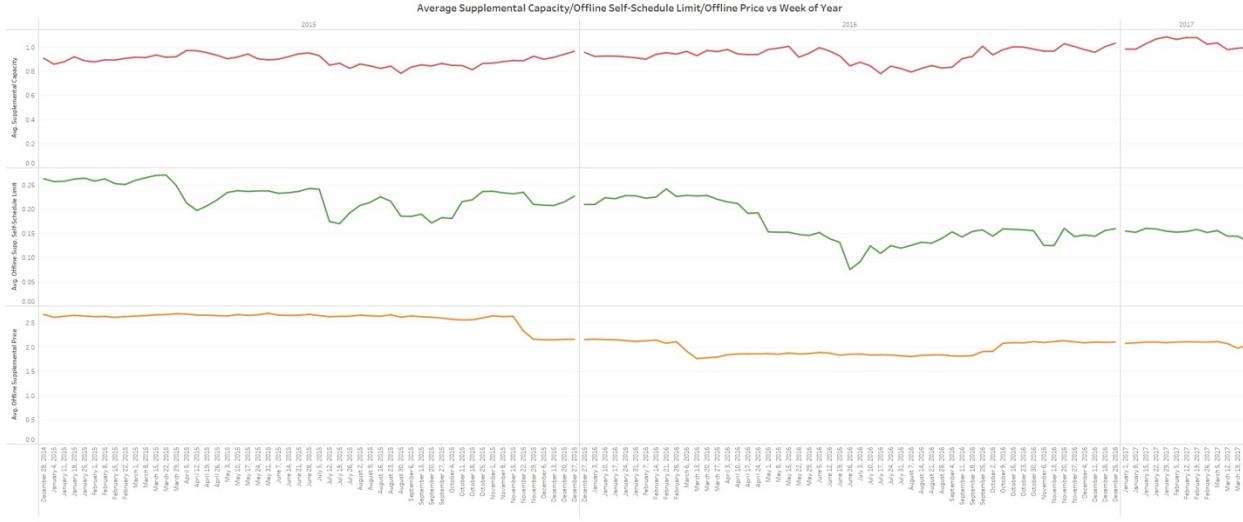
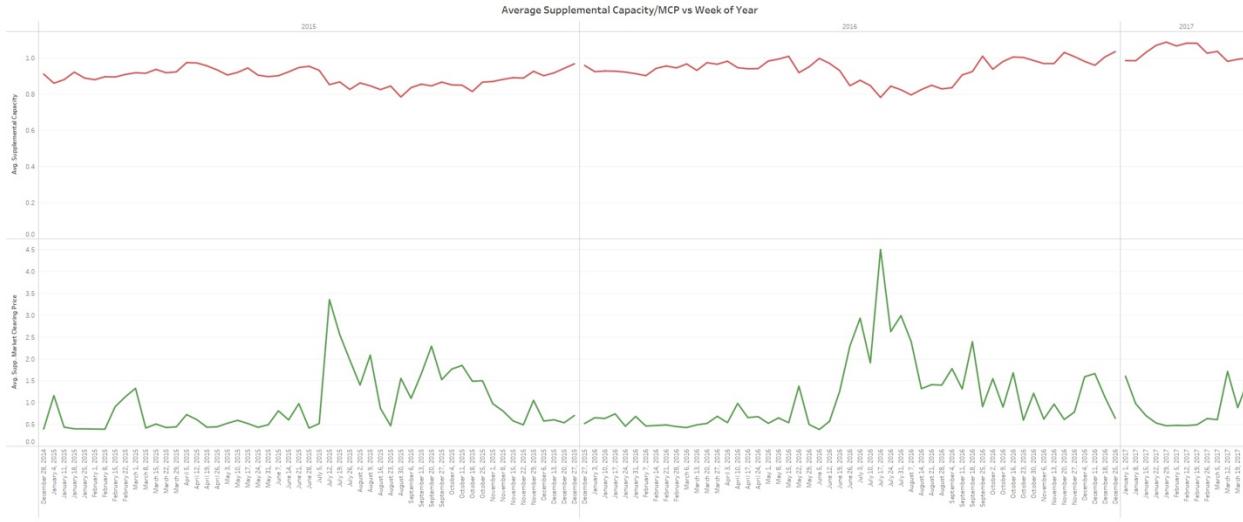
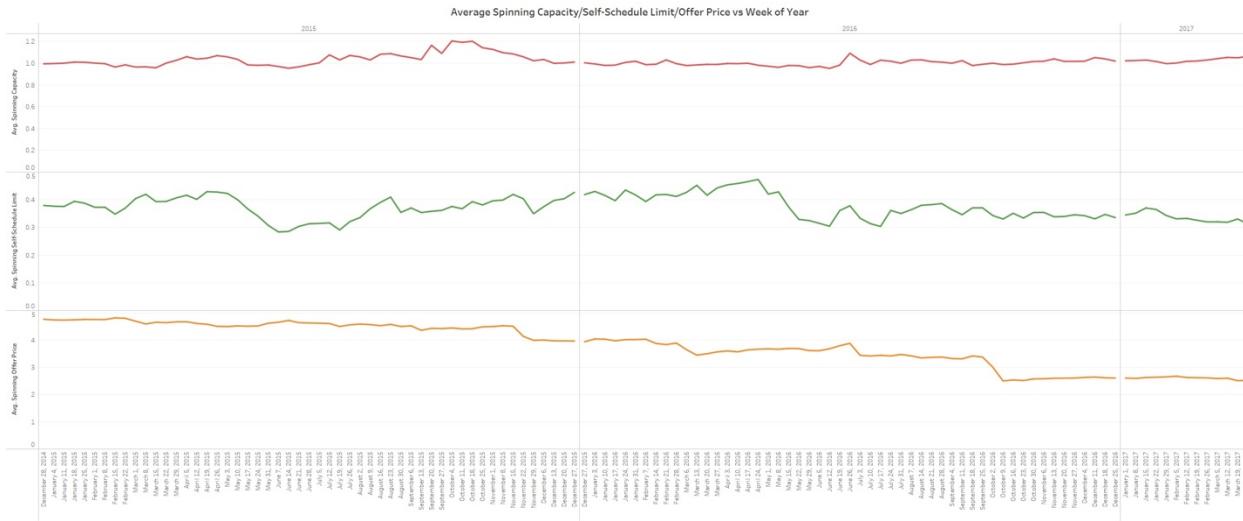


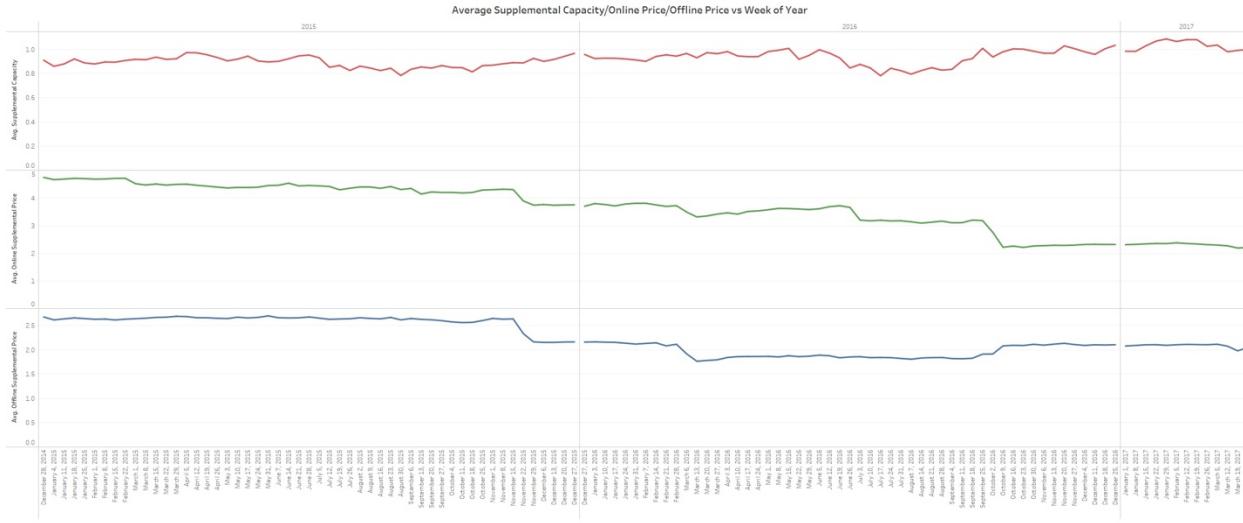
The plots of average of Suppavg Cap, average of Onsupp Price and average of Offsupp Price for Interval Start Week broken down by Interval Start Year.



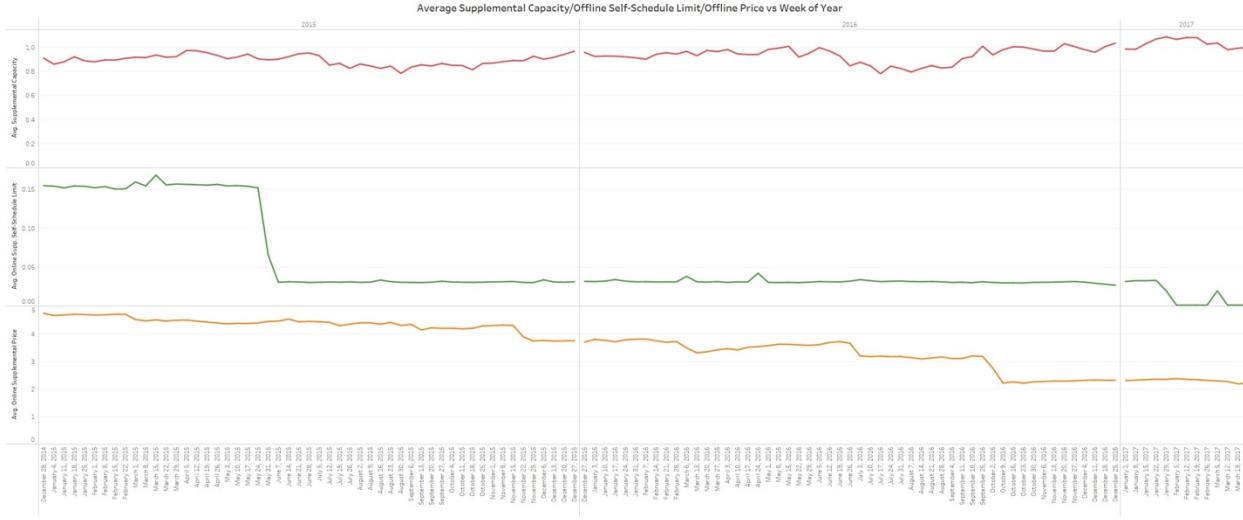
The plots of average of Suppavg Cap, average of Onsuppself Limit and average of Onsupp Price for Interval Start Week broken down by Interval Start Year.





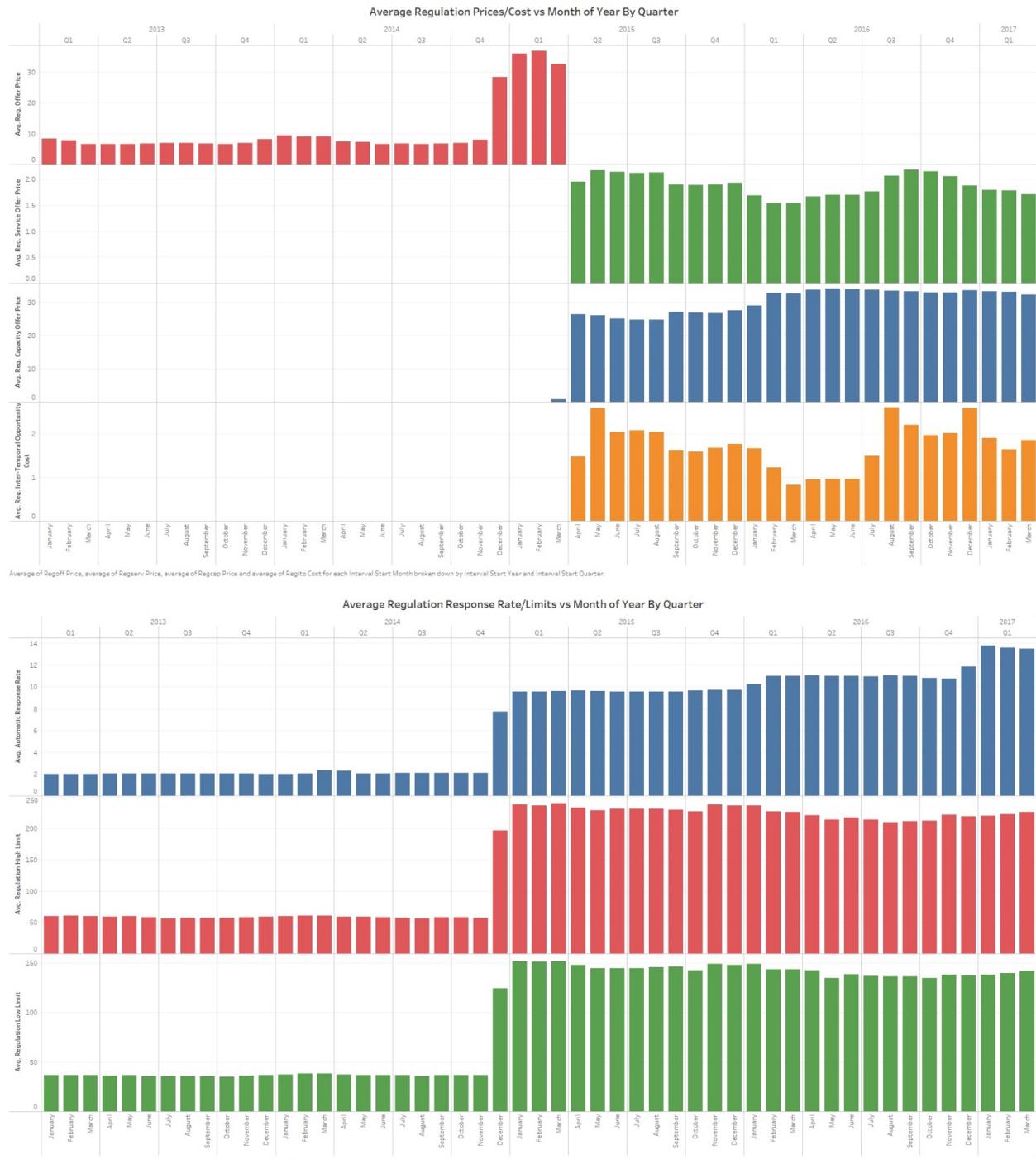


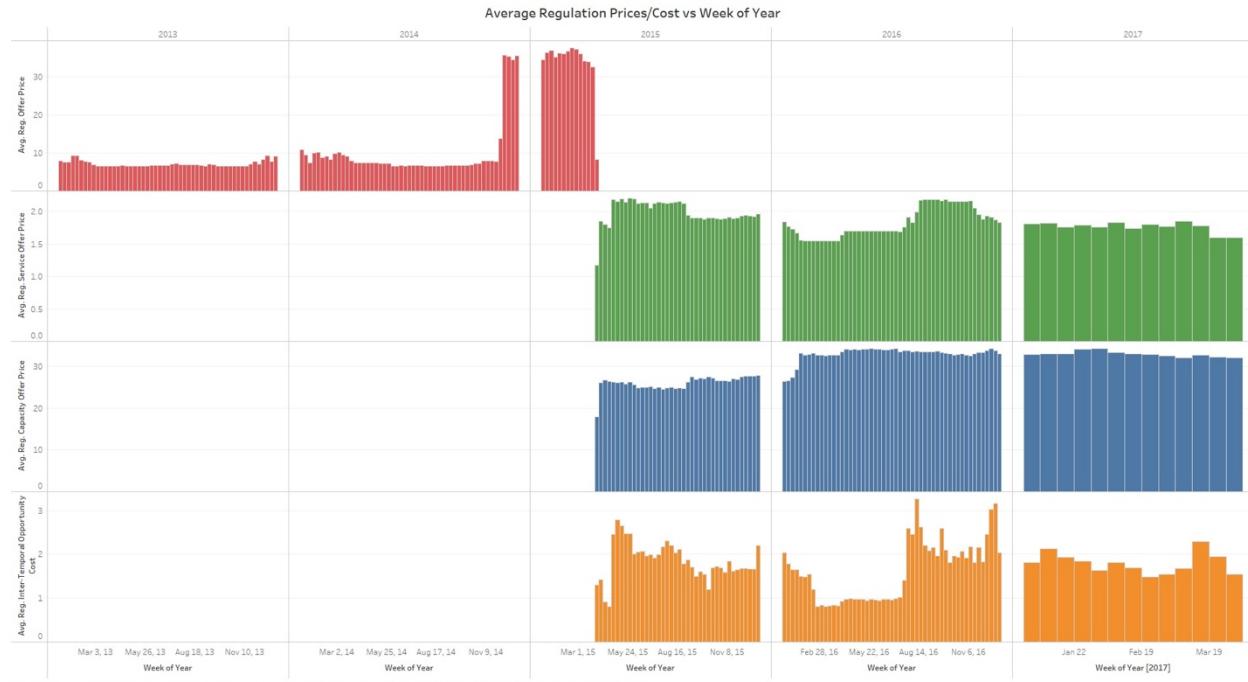
The trends of average of SupCap, average of Onsupp Price and average of Offsupp Price for Interval Start Week broken down by Interval Start Year.



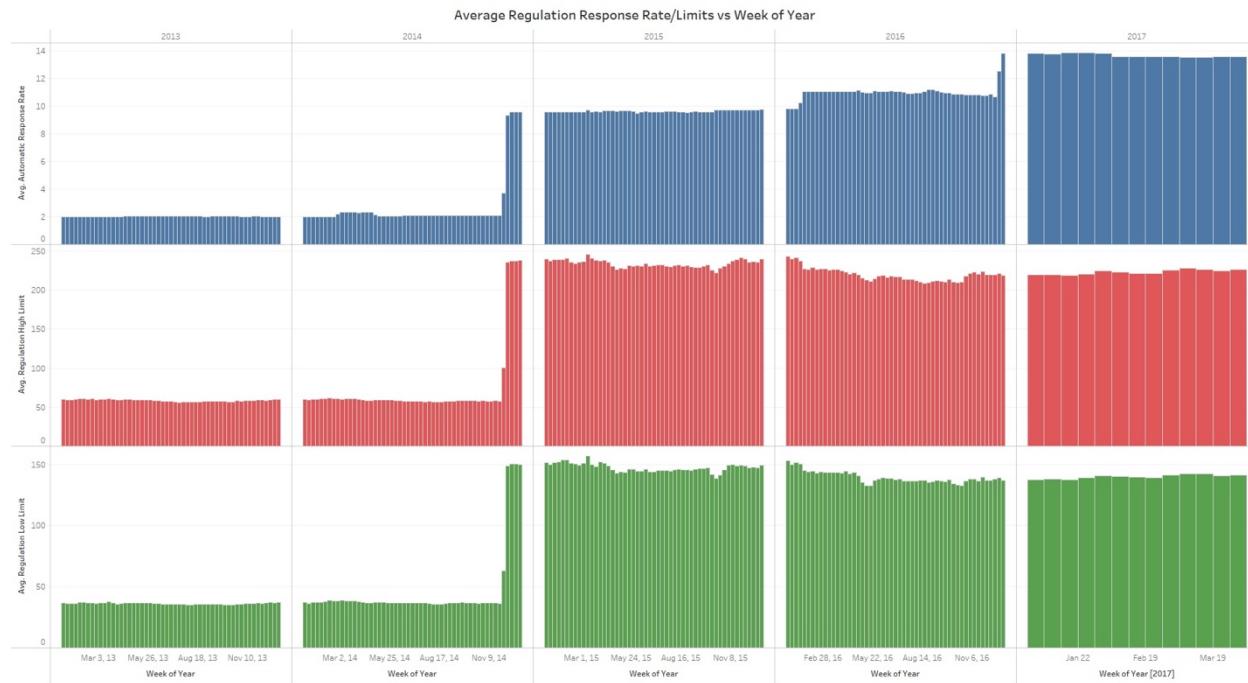
The trends of average of Onsuppself Limit and average of Onsupp Price for Interval Start Week broken down by Interval Start Year.

## Independent System Operator New England (ISO-NE)



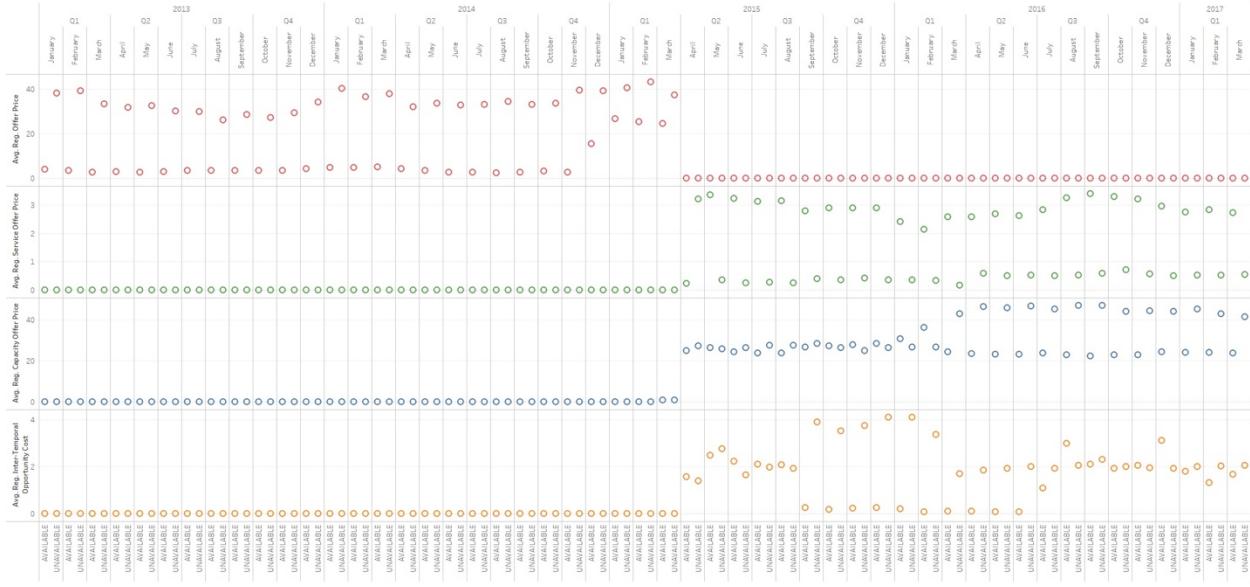


The plots of average of Regoff Price, average of Regserv Price, average of Regcap Price and average of Regito Cost for Interval Start Week broken down by Interval Start Year.

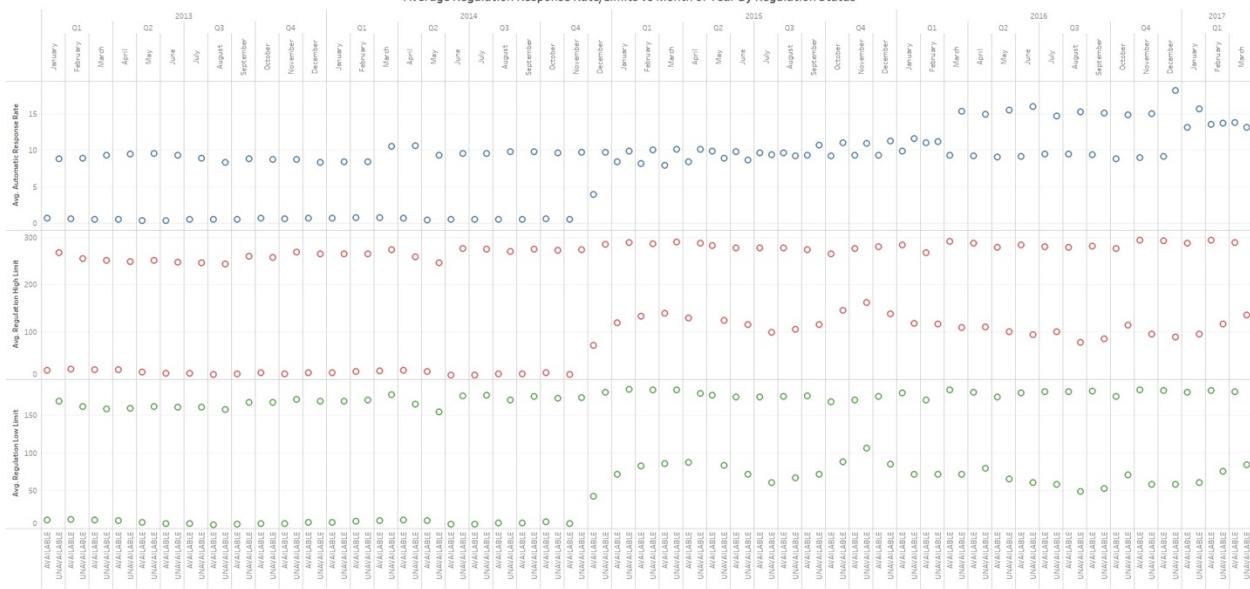


The plots of average of Autoresp Rate, average of Reglimit High and average of Reglimit Low for Interval Start Week broken down by Interval Start Year.

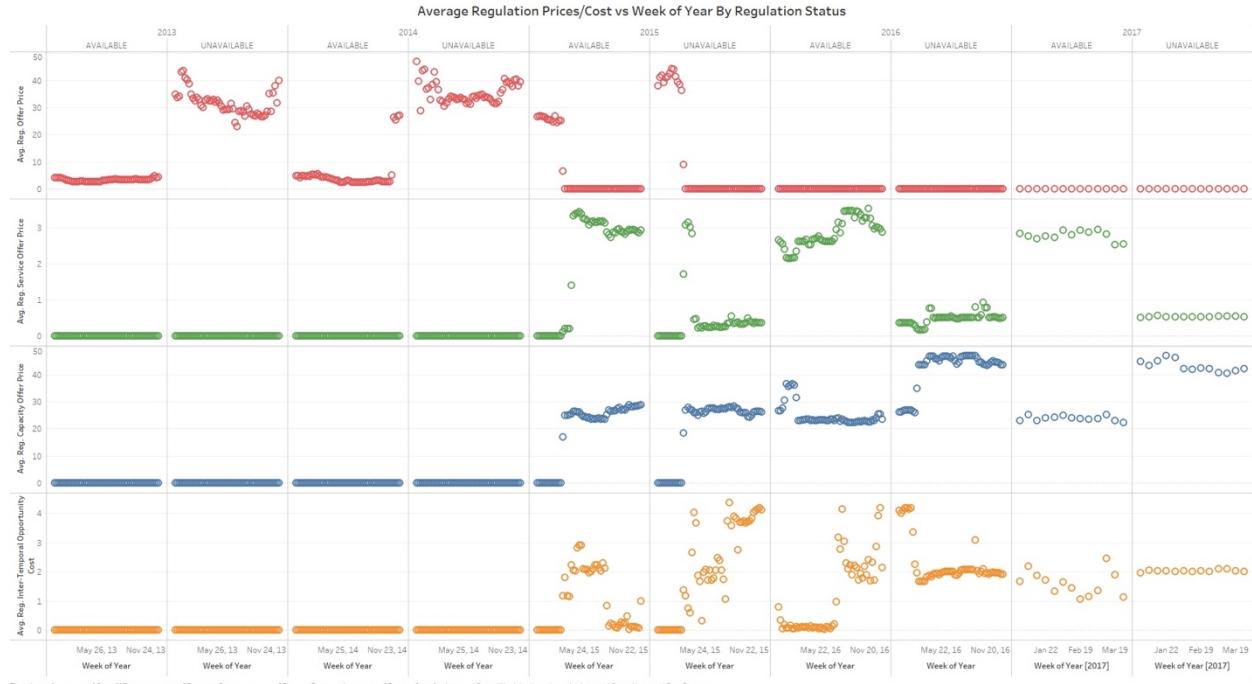
Average Regulation Prices/Cost vs Month of Year By Regulation Status



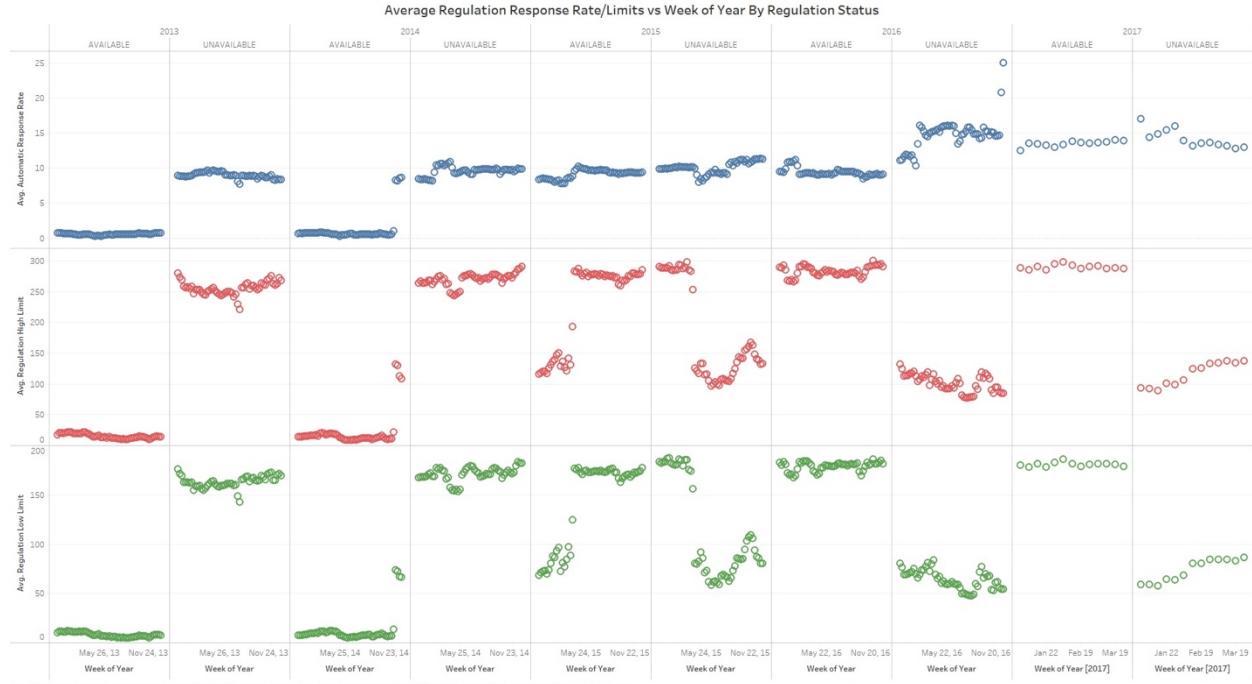
Average Regulation Response Rate/Limits vs Month of Year By Regulation Status



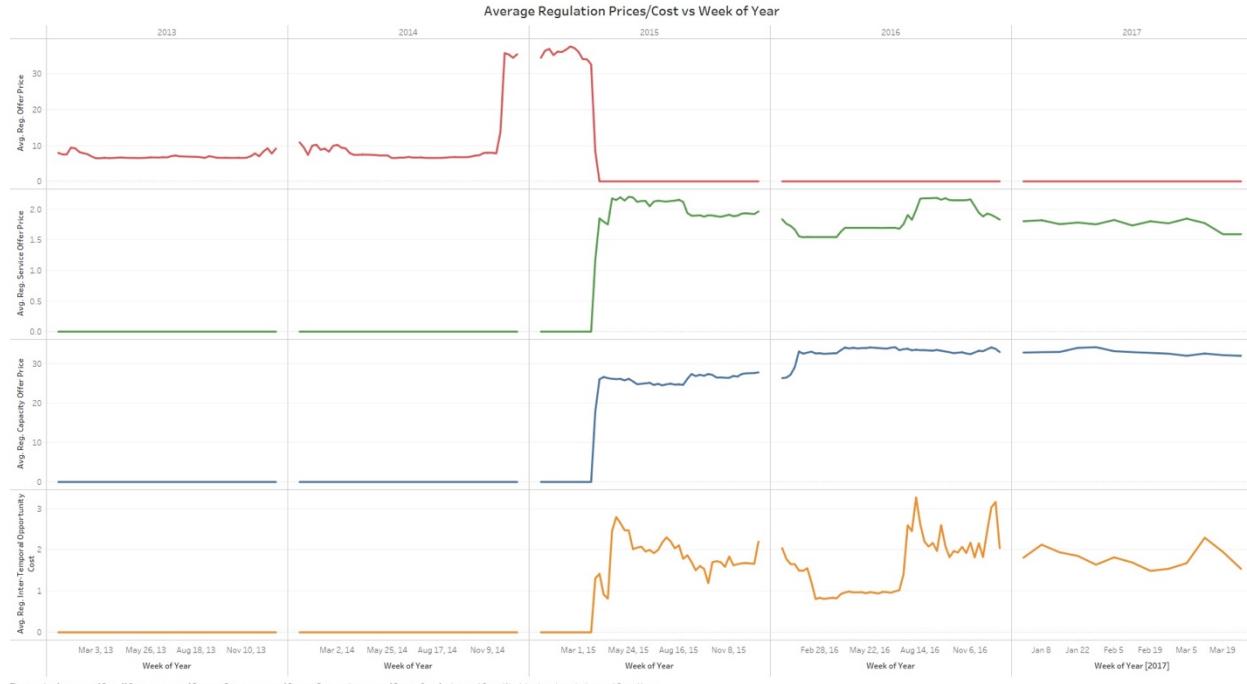
Average of RegOffer Price, average of RegCap Price, average of RegCap Cost for each Reg Status broken down by Interval Start Year, Interval Start Quarter and Interval Start Month.



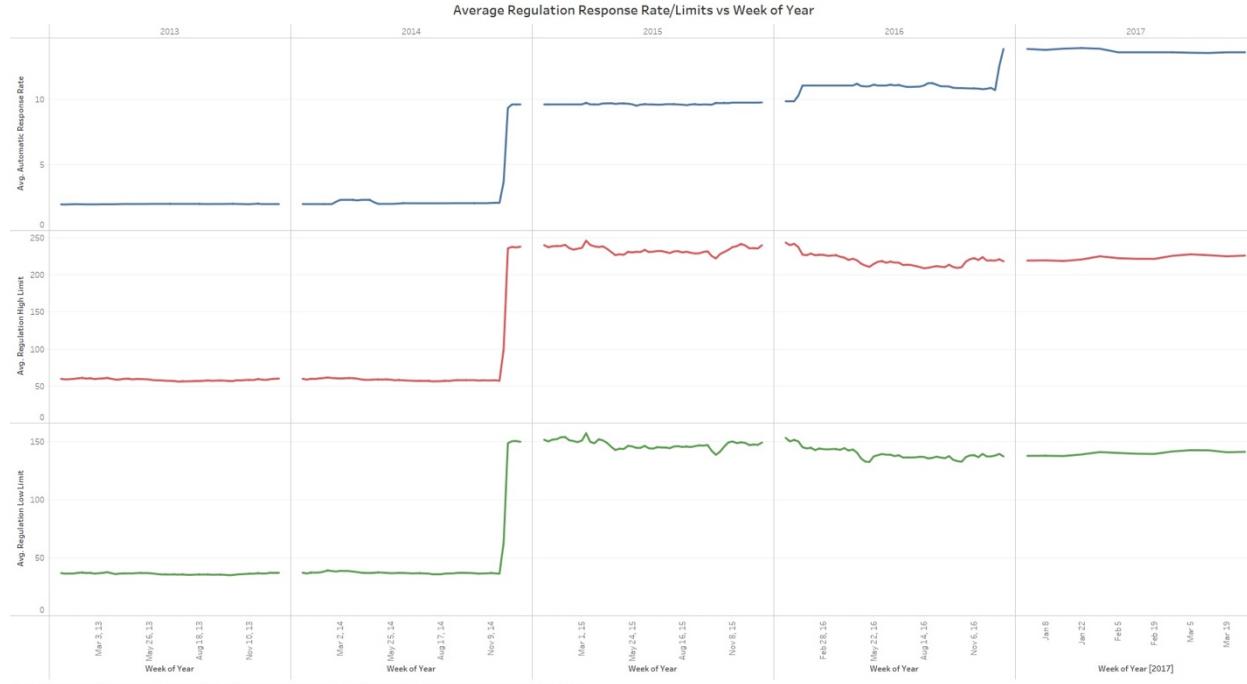
The plots of average of Regoff Price, average of Reserv Price, average of Regcap Price and average of Regito Cost for Interval Start Week broken down by Interval Start Year and Reg Status.



The plots of average of Autoresp Rate, average of Reglimit High and average of Reglimit Low for Interval Start Week broken down by Interval Start Year and Reg Status.



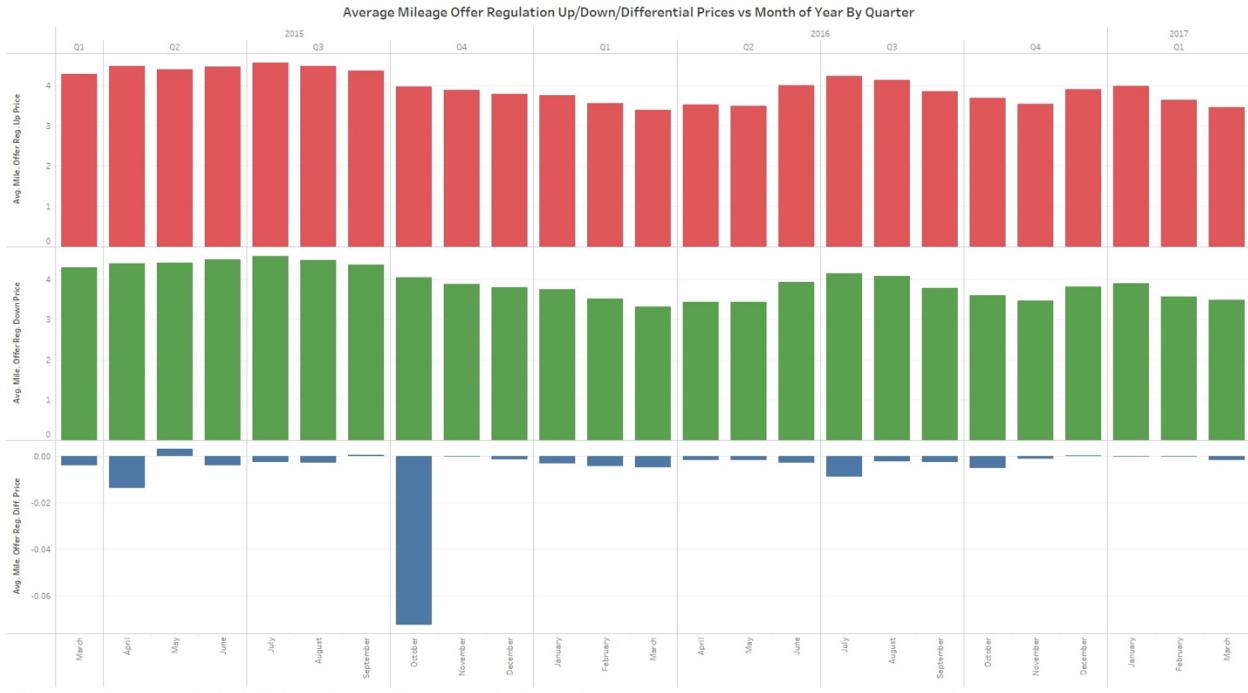
The trends of average of Regoff Price, average of Regserv Price, average of Regcap Price and average of Regito Cost for Interval Start Week broken down by Interval Start Year.



The trends of average of Autoresp Rate, average of Reglimit High and average of Reglimit Low for Interval Start Week broken down by Interval Start Year.

## Southwest Power Pool (SPP)

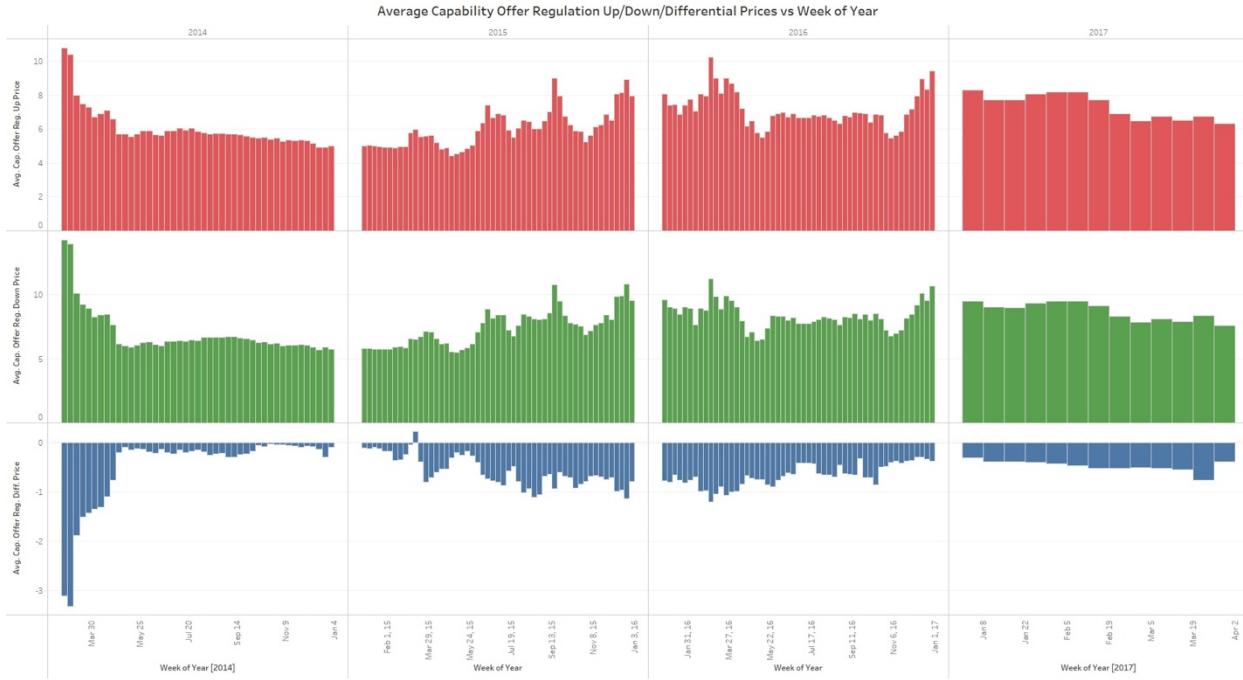




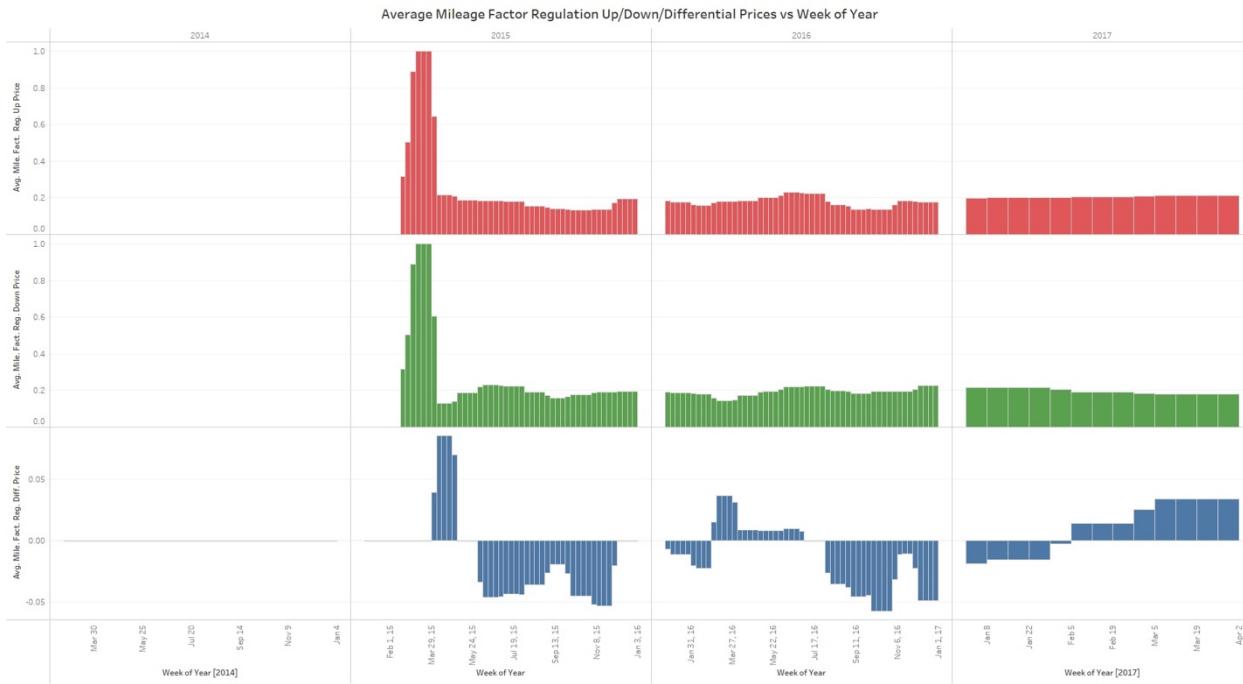
Average of Moreg Up, average of Moreg Down and AVG([Moreg Up]-[Moreg Down]) for each Interval Start Month broken down by Interval Start Year and Interval Start Quarter. The view is filtered on average of Moreg Up, which keeps non-null values only.



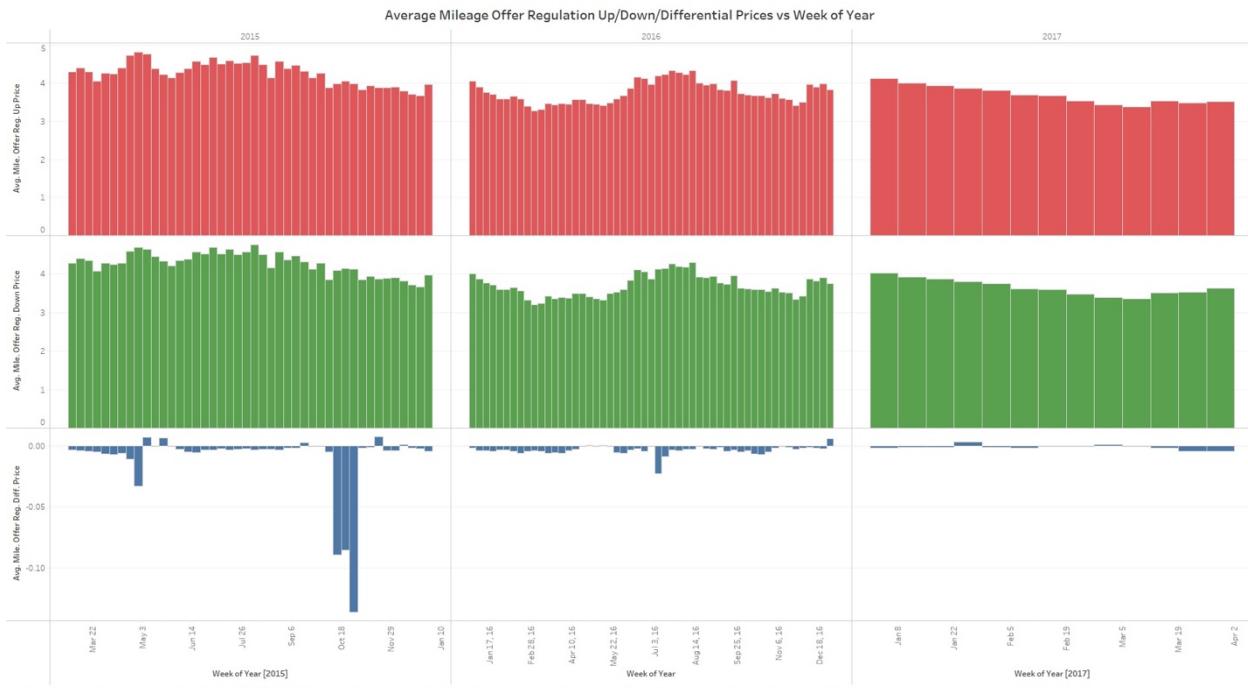
Average of Spin Price and average of Supp Price for each Interval Start Month broken down by Interval Start Year and Interval Start Quarter.



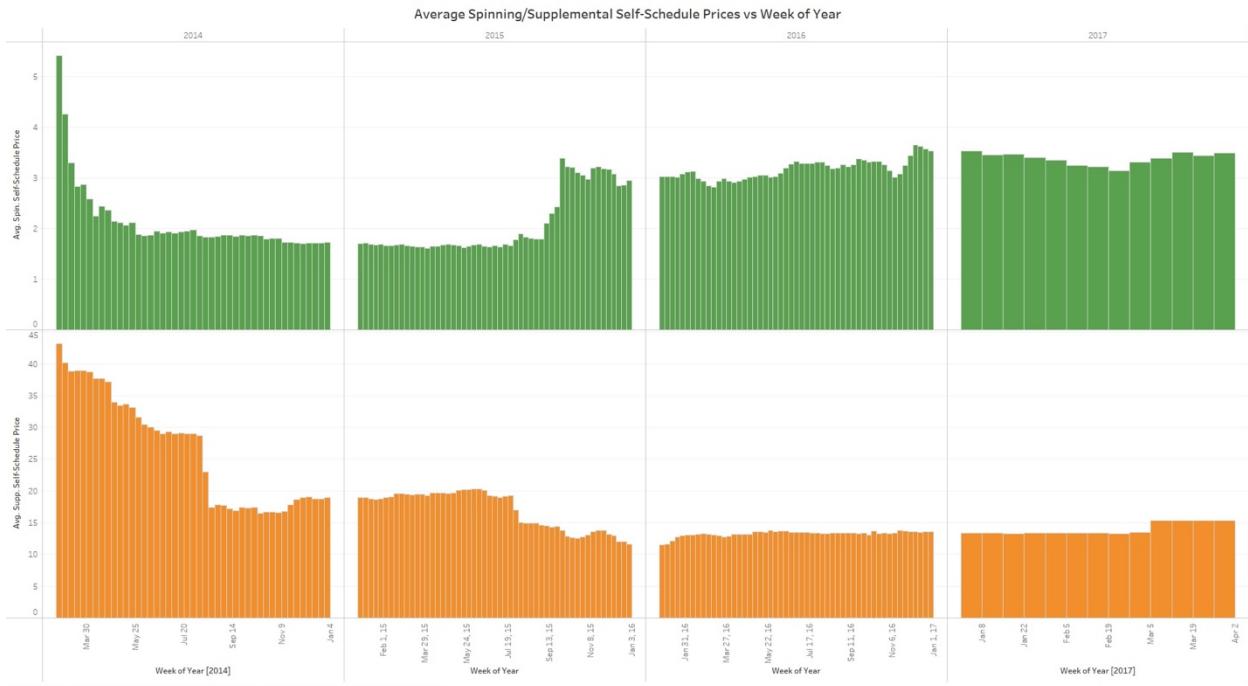
The plots of average of Coreg Up, average of Coreg Down and AVG[[Coreg Up],[Coreg Down]] for Interval Start Week broken down by Interval Start Year.



The plots of average of Mfreg Up, average of Mfreg Down and AVG[[Mfreg Up],[Mfreg Down]] for Interval Start Week broken down by Interval Start Year.



The plots of average of Moreg Up, average of Moreg Down and AVG([Moreg Up],[Moreg Down]) for Interval Start Week broken down by Interval Start Year. The view is filtered on average of Moreg Up, which keeps non-Null values only.



The plots of average of Spin Price and average of Supp Price for Interval Start Week broken down by Interval Start Year.

