Time Adjustments PACE Course Presentation

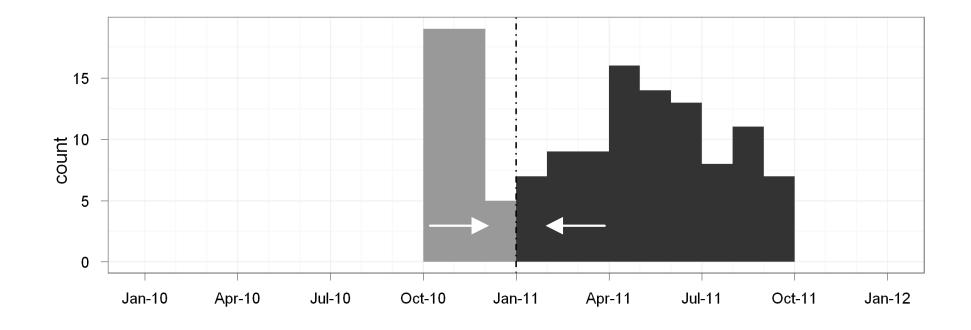
Why Time Adjustments?

Time Adjustment Regions

Time Adjustment Calculation

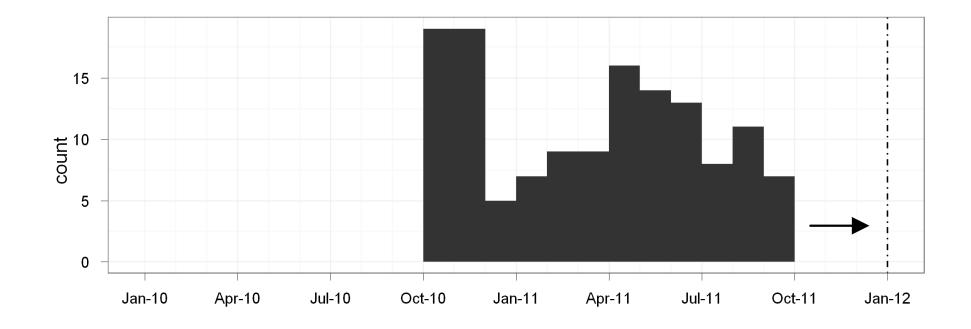
Time Adjustment Application

Appeal Procedures



- Tax Court 9 or 12 month study period
 - 2011 EMVs
 - Most sales occur after

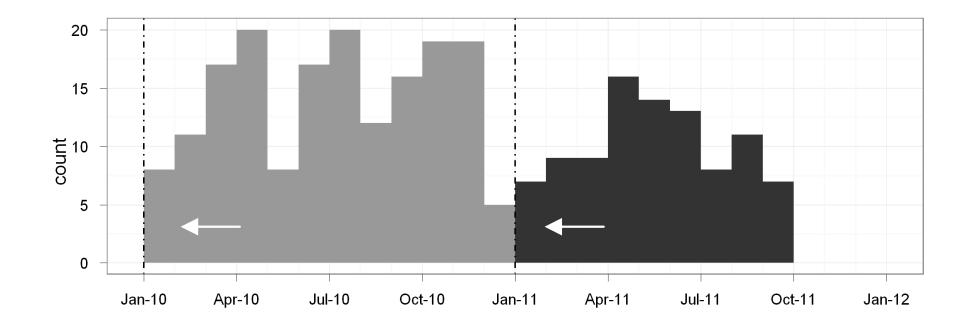
assessment



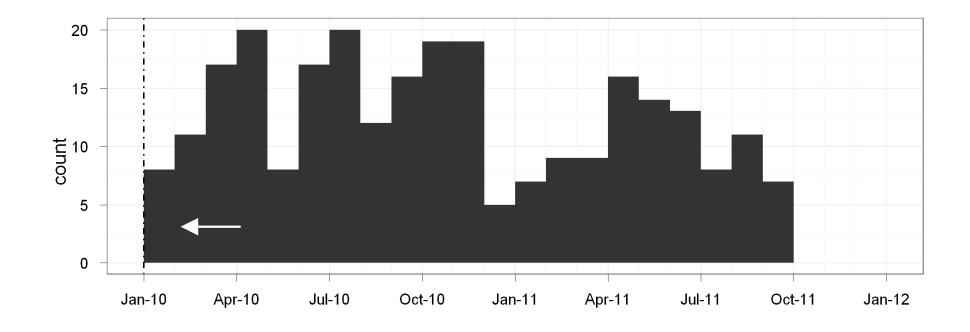
Equalization

- Entire 12 month study period
- 2012 EMVs
- All sales occur before

assessment



- ANTCS Extended 21 month study period
 - 2010 & 2011 EMVs
 - Includes final 9 months of previous study



Time Calc Adjustment Study

- Calculated using 21 month study period
 - 2010 EMVs
 - Same adjustment factor calculation for all studies

Why Time Adjustments?

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Appeal Procedures

•MS2010 Sec 278.05, subd 4

More Accurate Ratios

Why Time Adjustments?

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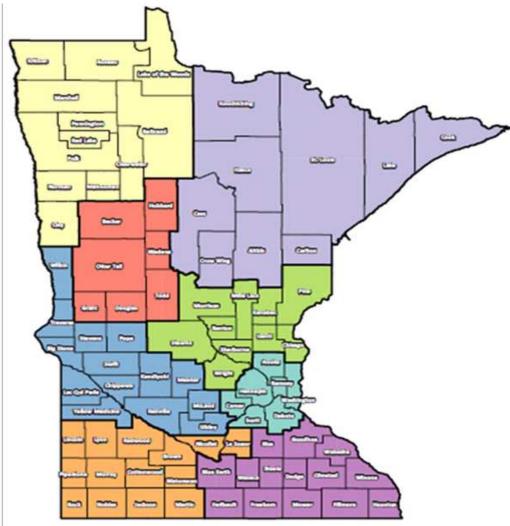
Appeal Procedures

Define Adjustment Pegions

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Before: October 2018

Time Adjustment Regions



December 12, 2000 | Minnecota Department of Revenue

Define Adjustment Pegions

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Before October 2010

Time Adjustment Regions

- Collaboration between Regional Reps and Assessors
- Attempted to align market areas
- Multi county groupings primarily based on ag markets
- Residential markets at county or sub-county level

Define Adjustment Pegions - Betre Occuer 2010

 Region definitions can continue to change as property markets change

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Define adjustment Pegious

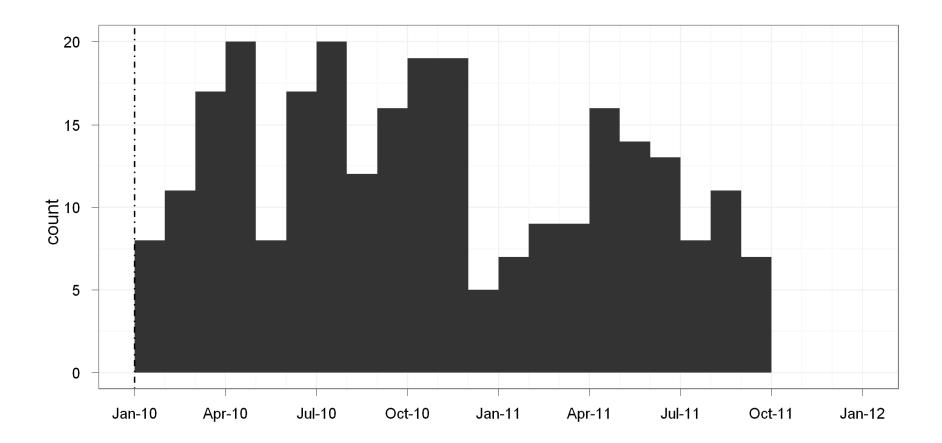
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Before October 2010

Counties Submit Sales

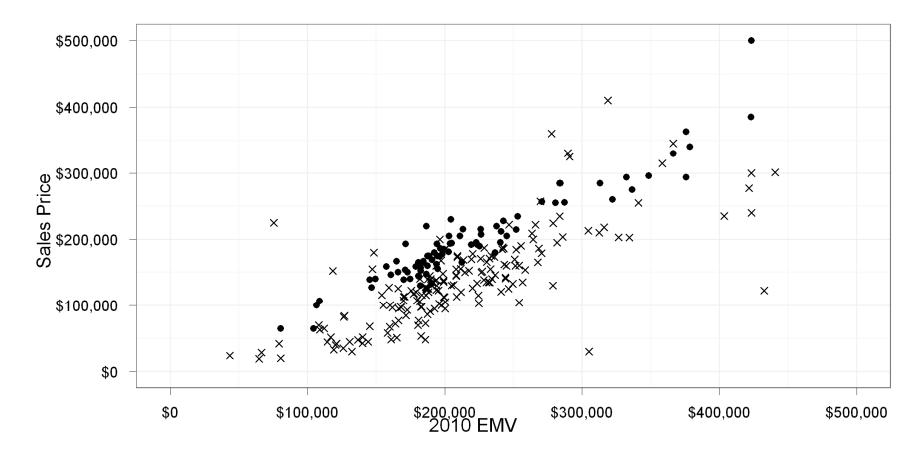
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October 2011



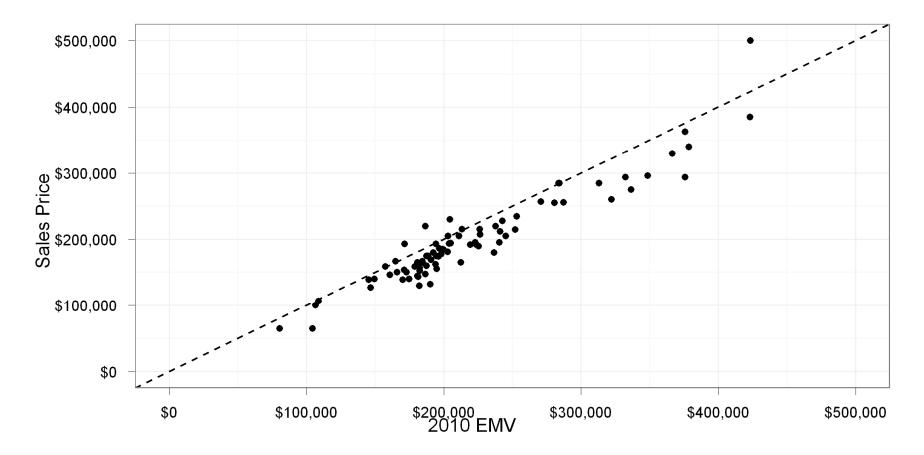
The sales sample is merged with the 2010 assessment values.





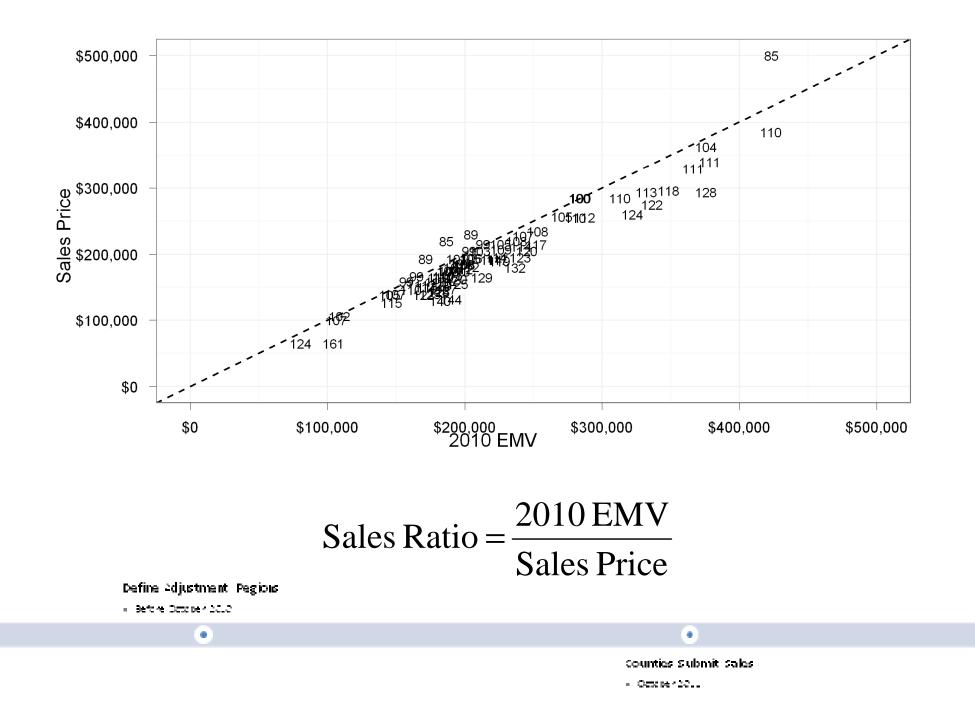
Only "good" arms-length transactions are used to calculate the time adjustment. Other sales are removed from the sample.

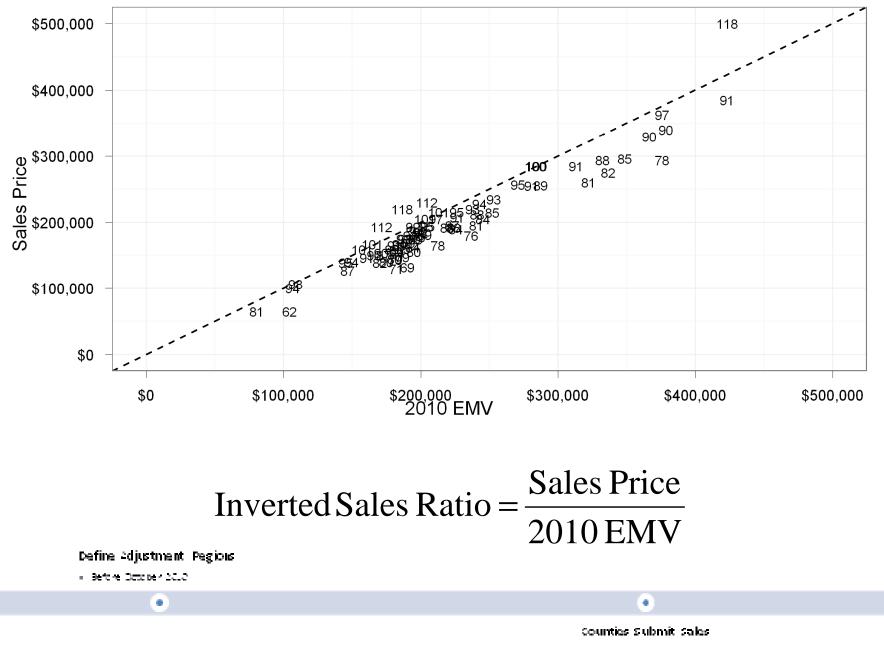




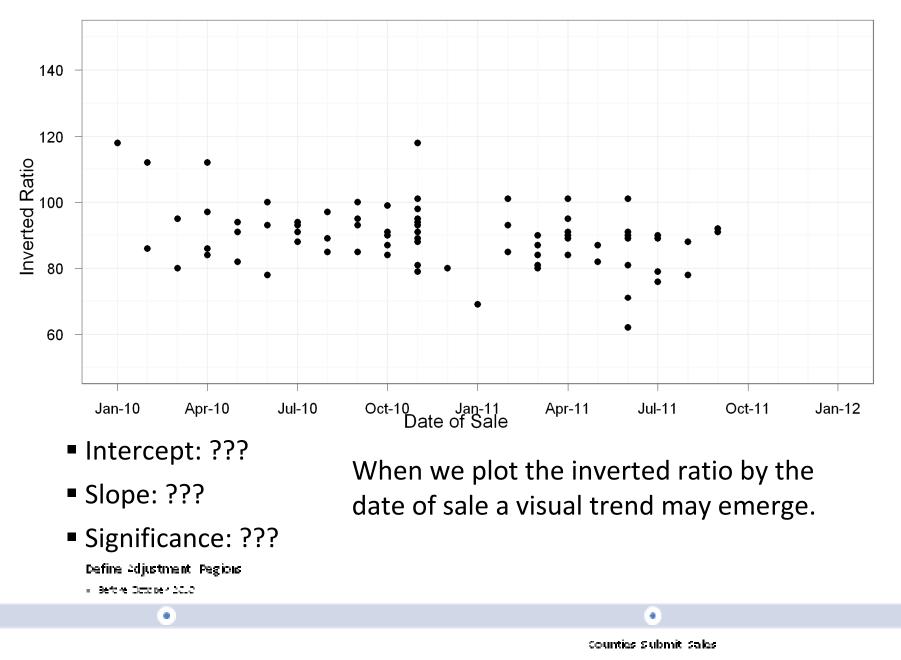
Sales that lie on the dotted line have a ratio of 100. Are the majority of these unadjusted ratios above or below 100?

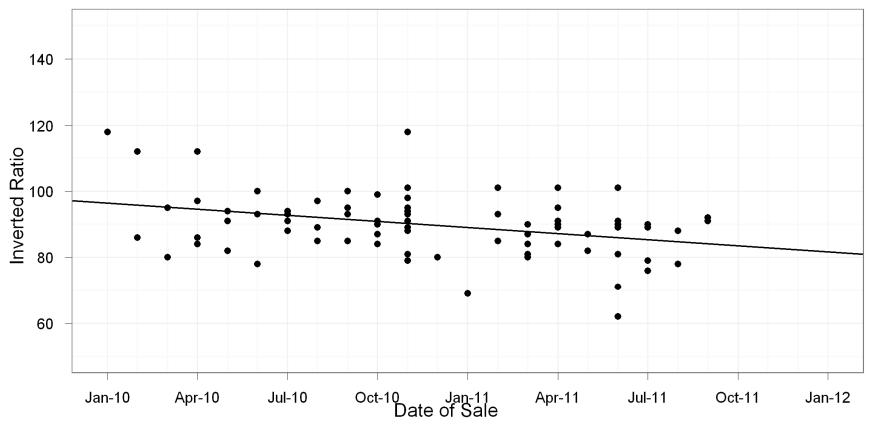






October 2011





- Intercept: 96.46
- Slope: -0.62
- Significance: 99.8%
 Define Adjustment Pegions
 Before Decoder 2020

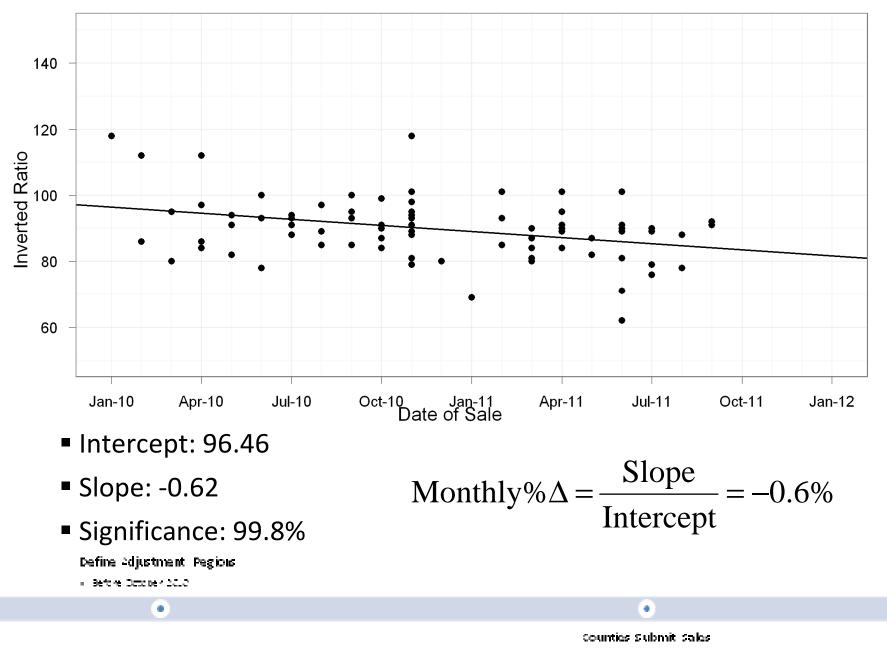
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By fitting a line to the data we calculate the parameters necessary to both determine if a statistically significant time trend exists and calculate the most probable time adjustment.

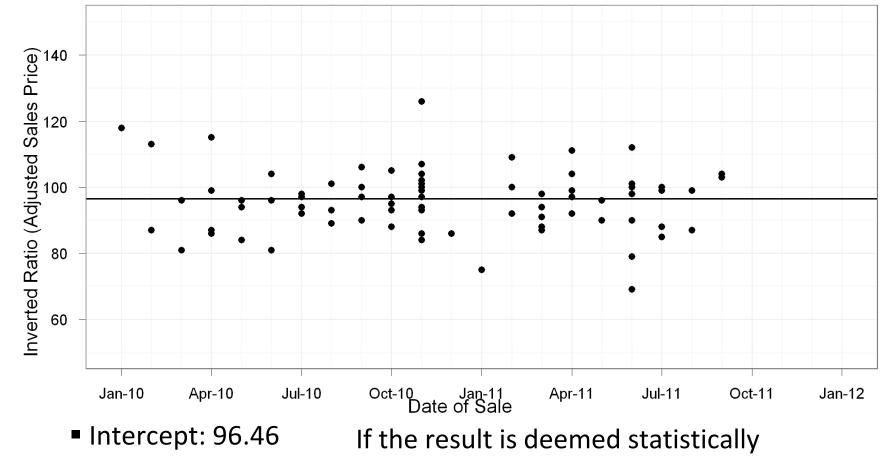
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Counties Submit Sales

October 2001



October 2001



- Slope: -0.62
- Significance: 99.8%
 Define Adjustment Pegious
 Bettre Decoder 20.0

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If the result is deemed statistically significant (confidence level > 90%) a time adjustment is applied to the corresponding sales. Otherwise sales prices are not adjusted for time.

Counties Submit Sales

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Why Time Adjustments?

Time Adjustment Regions

Time Adjustment Calculation

Time Adjustment Application

Appeal Procedures

Define adjustment Pegious

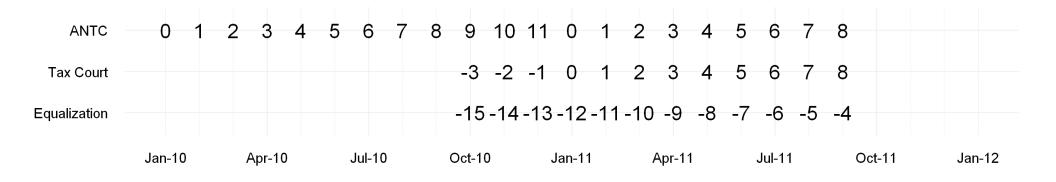
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Before October 2020

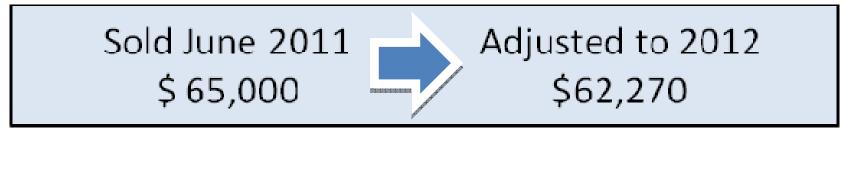
Counties Submit Sales - October 20.1

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Equalization Study

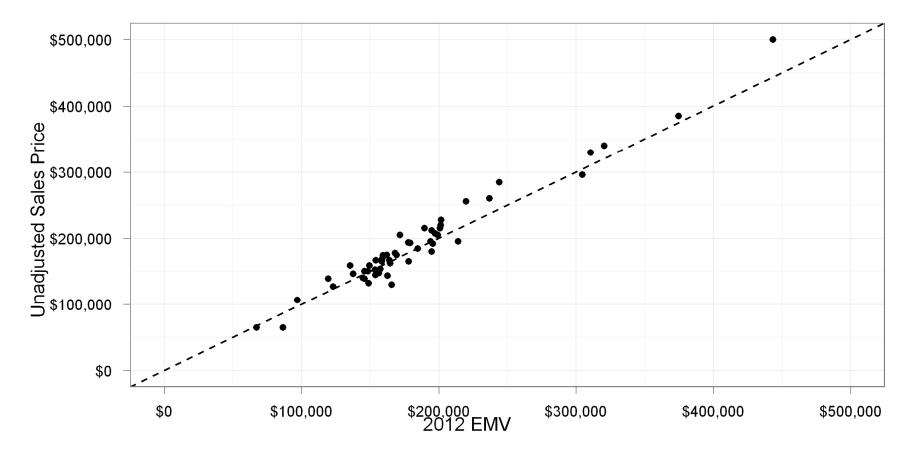


Adjusted Sales Price = Sales Price x (1 - (-0.006 x Study Month))





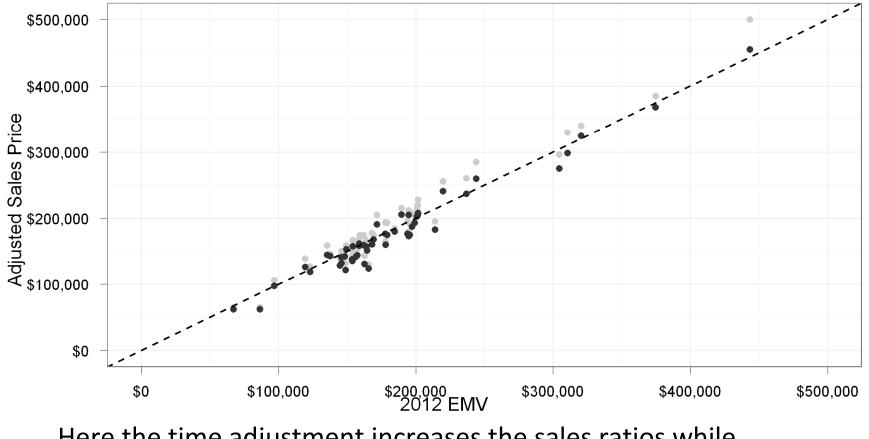
Equalization Study



The sales ratios are relatively low prior to adjustment (points above the dotted line are under-assessed).

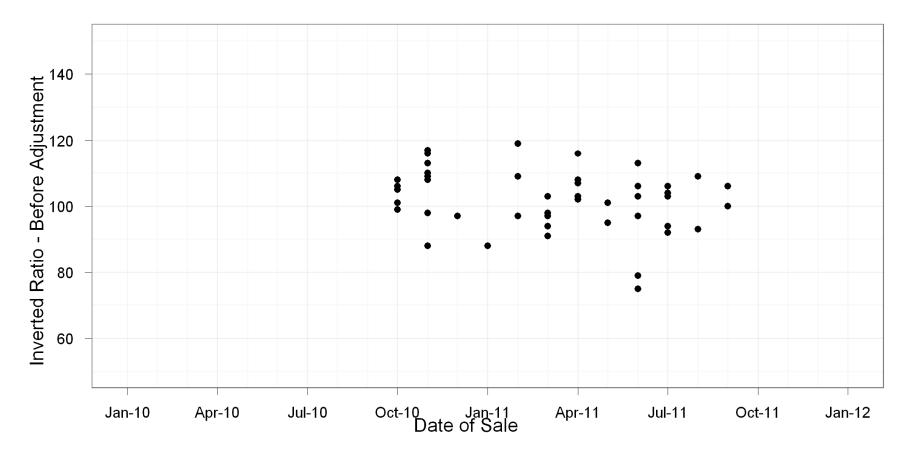


Equalization Study



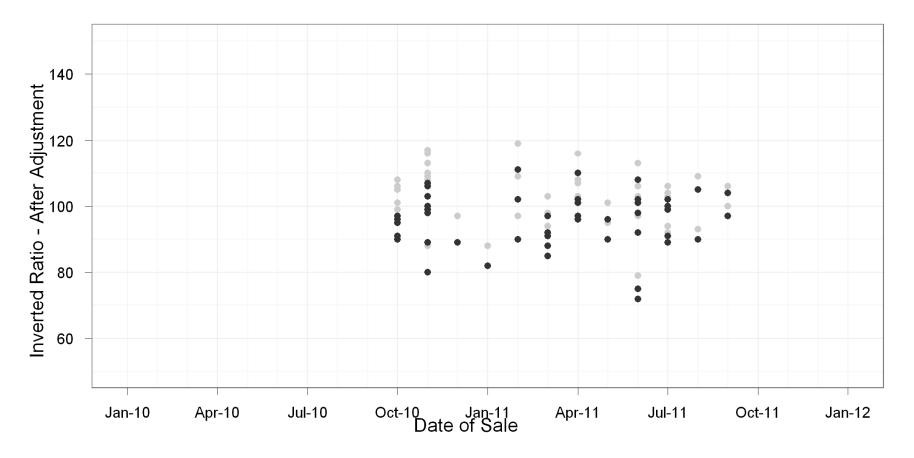
Here the time adjustment increases the sales ratios while reducing their variance. The ratio increase occurs because we've removed the deflationary trend.





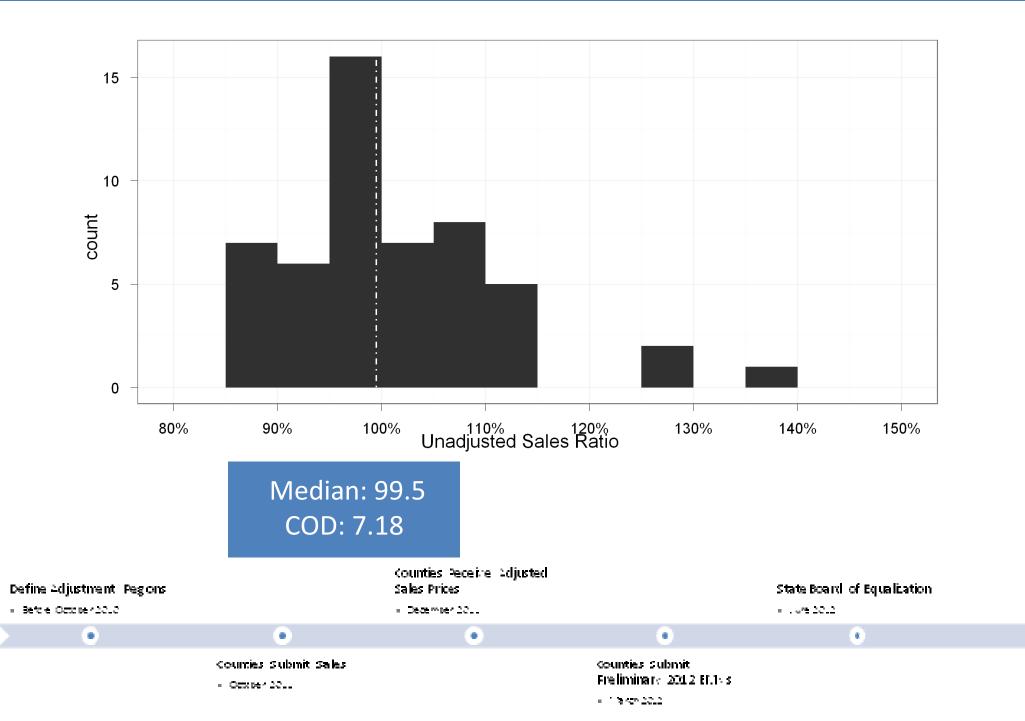
Plotting the sales by date better illustrates the removal of the time trend.



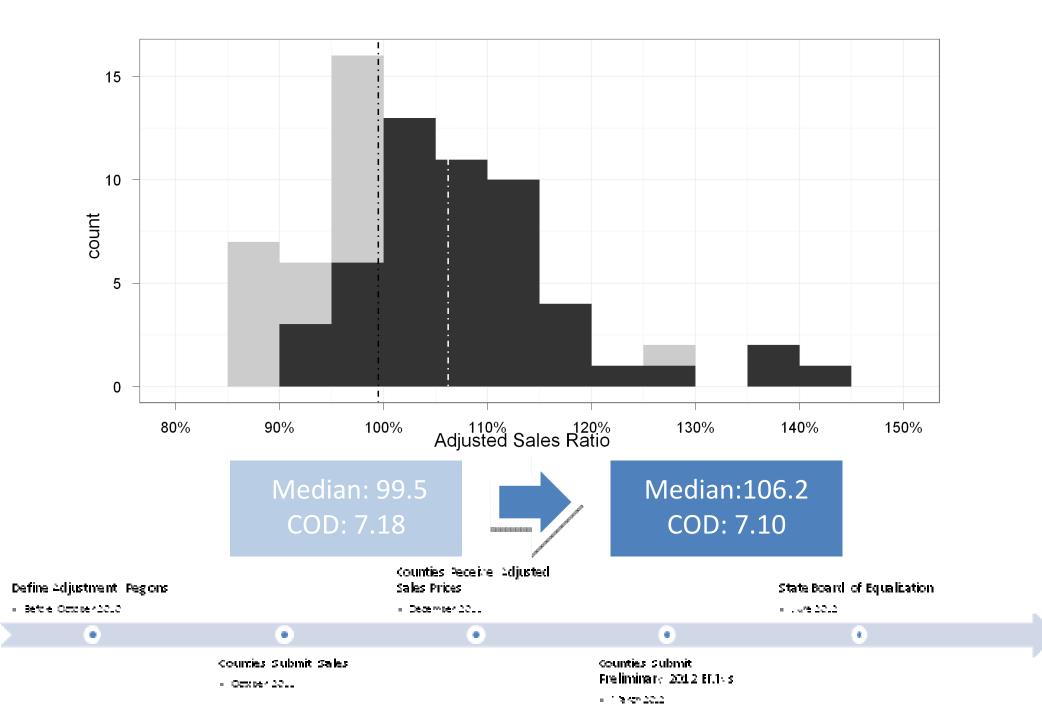


Plotting the sales by date better illustrates the removal of the time trend.





Equalization Study



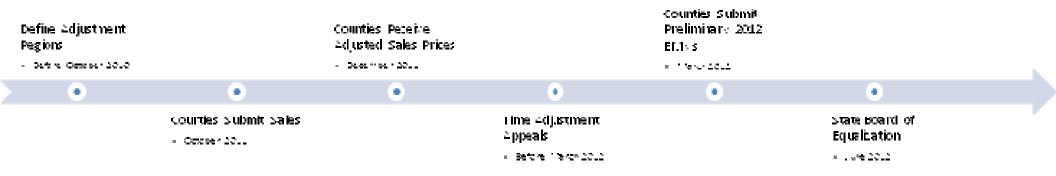
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Time Adjustment Regions

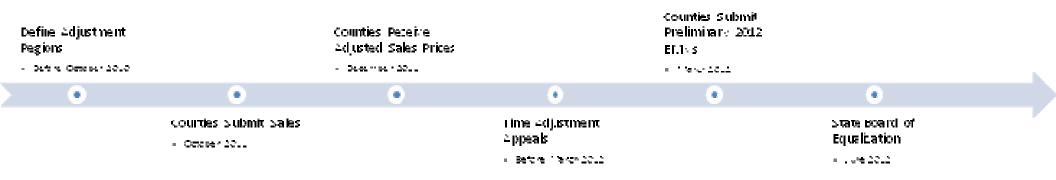
Time Adjustment Calculation

Time Adjustment Application

Appeal Procedures



- Time adjustments can be inaccurate.
- Factors that can lead to inaccurate adjustments include:
 - Non-representative sales sample
 - Poorly defined market



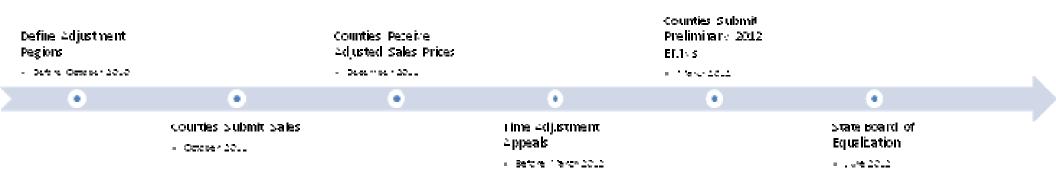
Appeal Procedures

- Start by notifying your regional representative of your concerns.
- Identify the specific area and property type.
- Provide supporting documentation.
- More detail on the appeals procedure can be found in

the sales ratio criteria documentation.



If the appeal results in a time adjustment, the adjustment factors will be applied to the appropriate sales ratio study uses.



Questions?



- Time adjustments make ratios better represent actual market conditions
- Department uses tracking sales ratios over time method
 - Regression analysis with 90% confidence level
- Appeal process available for questionable adjustments
 - Process starts by talking to Regional Rep

