

Farmers Electric Cooperative (K)

Responding to requests from our members, the Iowa Association of Electric Cooperatives (IAEC) has compiled reliability data from Iowa electric cooperatives, MidAmerican Energy and Interstate Power and Light annually since 2003. (Please note that data on reliability indices for Iowa municipal utilities is not publically available.)

This report for your electric cooperative has been compiled by IAEC and shows your specific reliability data charted along with data for MidAmerican Energy, Interstate power and Light, and averaged Iowa co-op reliability data. The averaged figures have been computed using a weighting of the number of meters for that particular co-op relative to the total co-op meters served in Iowa. Please note that data for MidAmerican and IPL is provided for information only and should not be used to compare against your performance, according to the recommendation from the National Association of Regulatory Commissioners (NARUC) that states "...satisfactory performance is best defined with respect to the history of a particular utility."*

Data in this report (from 2010-2014) has been compiled by IAEC based upon information filed with the Iowa Utilities Board (IUB) in annual reliability reports as well as reliability information within the USDA's Rural Utility Service (RUS) Bulletin 1730A-119, and financial and operating reports (formerly Form 7) from the National Utilities Cooperative Finance Corporation (CFC). All figures relative to time have been rounded to the nearest minute. This report contains 13 pages of charts and the scale has been automatically selected by the computer program used to chart the data.

IAEC performed a high-level check of the indices to determine if they fell within a "normal" range for the various indices. However, IAEC did not attempt to verify the detailed computations of the indices for accuracy or consistency within a utility or between utilities. As a result, exercise caution when comparing utilities on the indices; the most appropriate comparison is a utility against itself over time. It's also important to remember that the geographic location of the utility service area will impact reliability.

The IUB rules for the investor-owned utilities defines "major event" as follows:

"Major event" will be declared whenever extensive physical damage to transmission and distribution facilities has occurred within an electric utility's operating area due to unusually severe and abnormal weather or event and:

1. Wind speed exceeds 90 mph for the affected area, or
2. One-half inch of ice is present and wind speed exceeds 40 mph for the affected area, or
3. 10% of the affected area total customer count is incurring a loss of service for a length of time to exceed five hours, or
4. 20,000 customers in a metropolitan area are incurring a loss of service for a length of time to exceed five hours.

Detailed information related to the 2014 reliability reports for MidAmerican and IPL can be downloaded from the IAEC website at:
https://www.iowarec.org/members/regulatory-affairs/regulatory-tools/reliability_information/

If you have any suggestions to improve this report or notice any issues with data contact the IAEC regulatory affairs department.

Respectfully,

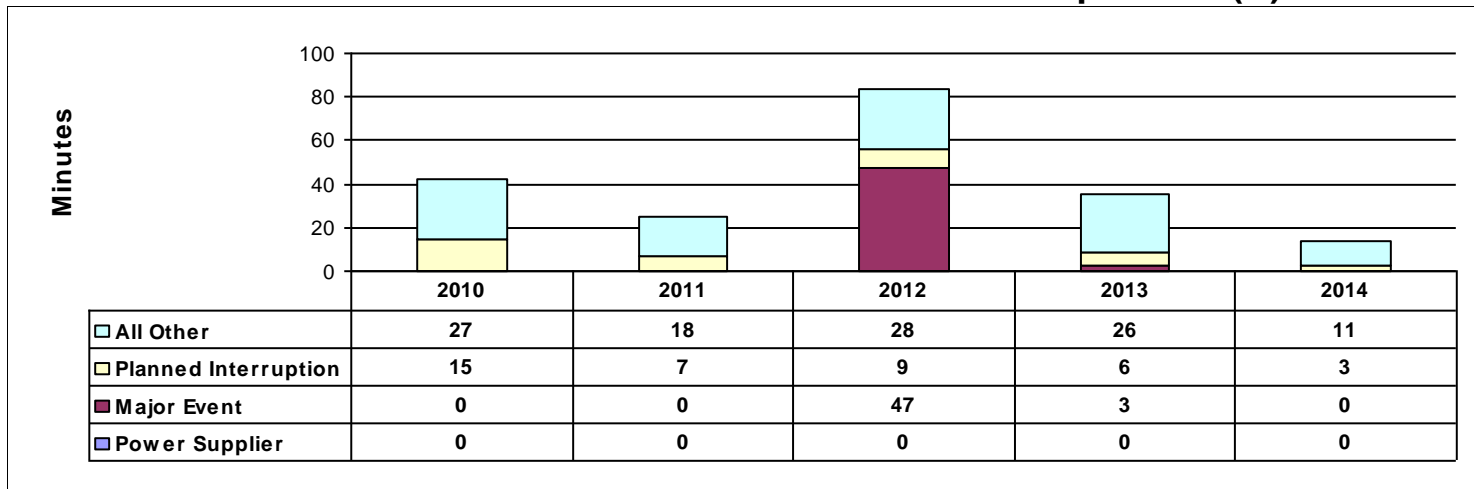
Ethan Hohenadel
Regulatory Data Analyst
Iowa Association of Electric Cooperatives

Regi Goodale
Director of Regulatory Affairs
Iowa Association of Electric Cooperatives

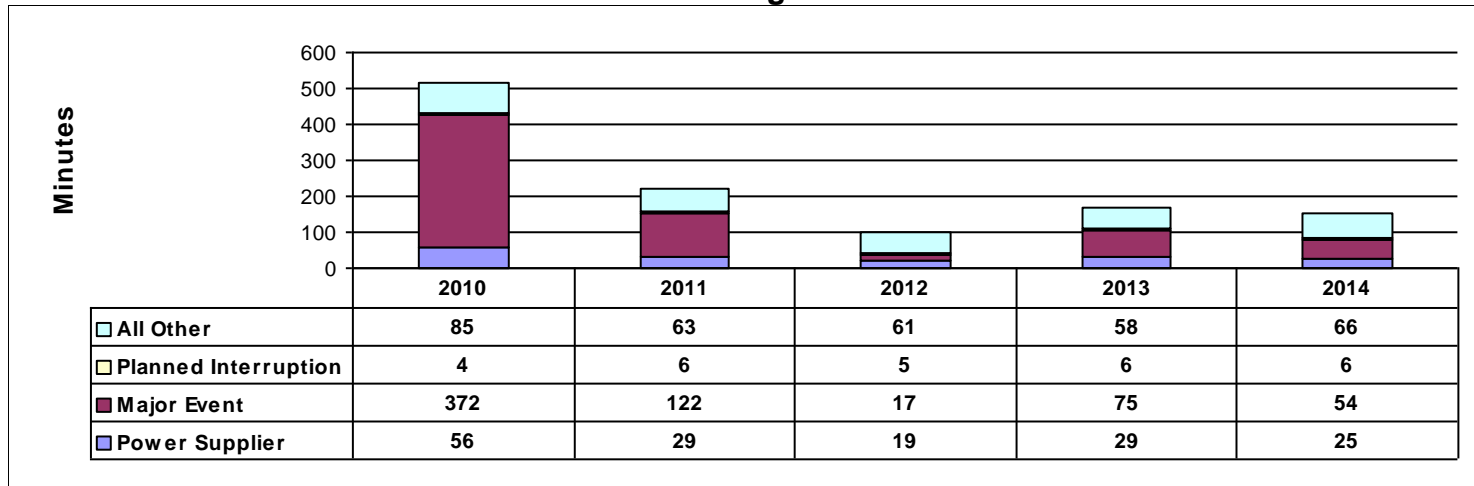
**"Performance-Based Regulation in a Restructured Electric Industry" by Bruce Biewald, Tim Woolf, Peter Bradford, Paul Chernick, Susan Geller, and Jerold Oppenheim for NARUC by Synapse Energy Economics, Cambridge, MA, November 8, 1997*

Farmers Electric Cooperative (K)

SAIDI Breakdown for Farmers Electric Cooperative (K)



Iowa REC Average SAIDI Breakdown

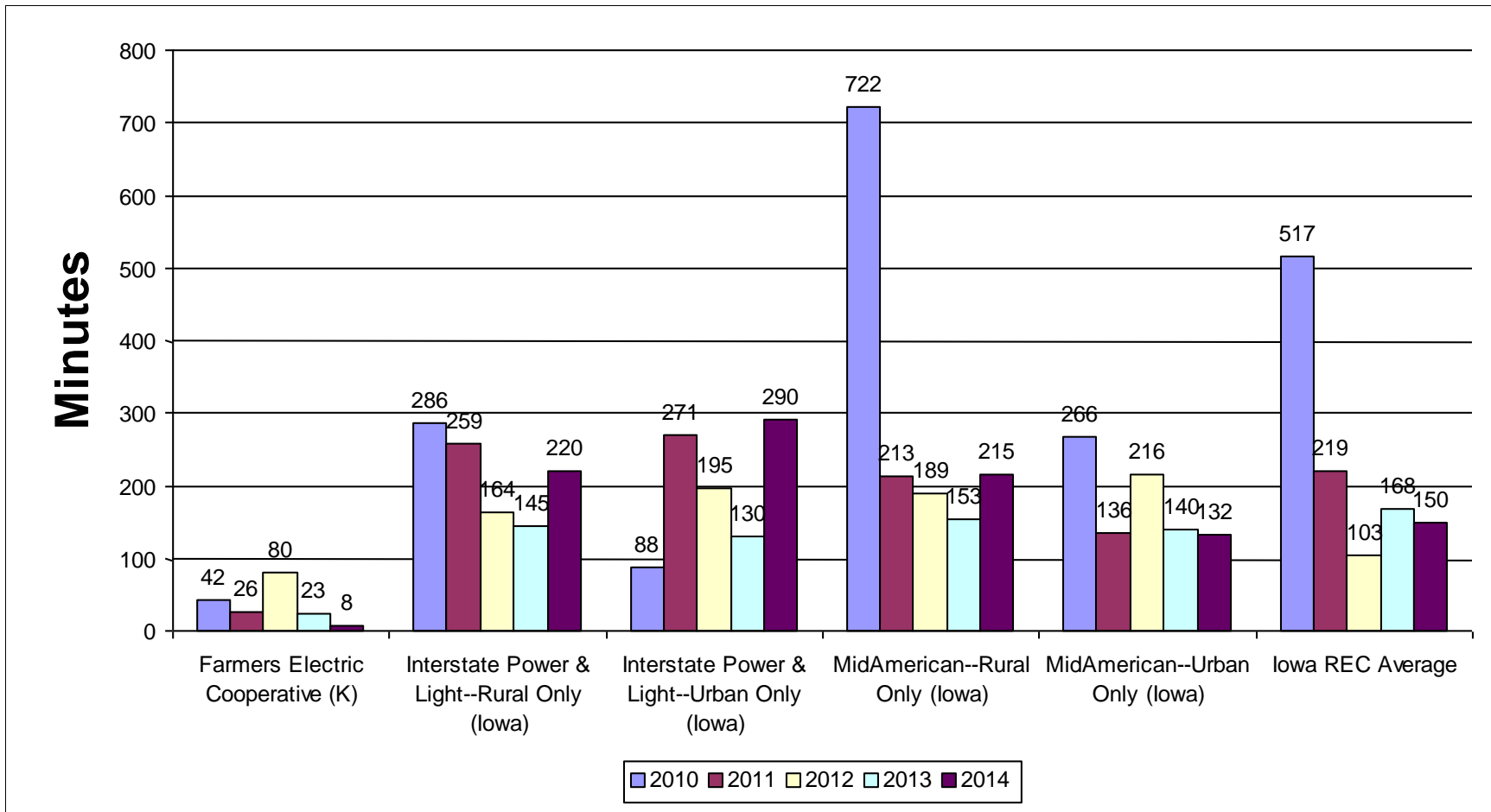


Farmers Electric Cooperative (K)

System Average Interruption Duration Index (SAIDI) Average Minutes of Interruptions per Consumer

SAIDI is computed as follows:
$$\frac{\text{Sum of All Customer Interruption Durations}}{\text{Total Number of Customers Served}}$$

Includes Major Event



Note: SAIDI is the index that has been computed for several years for the RUS Form 7.

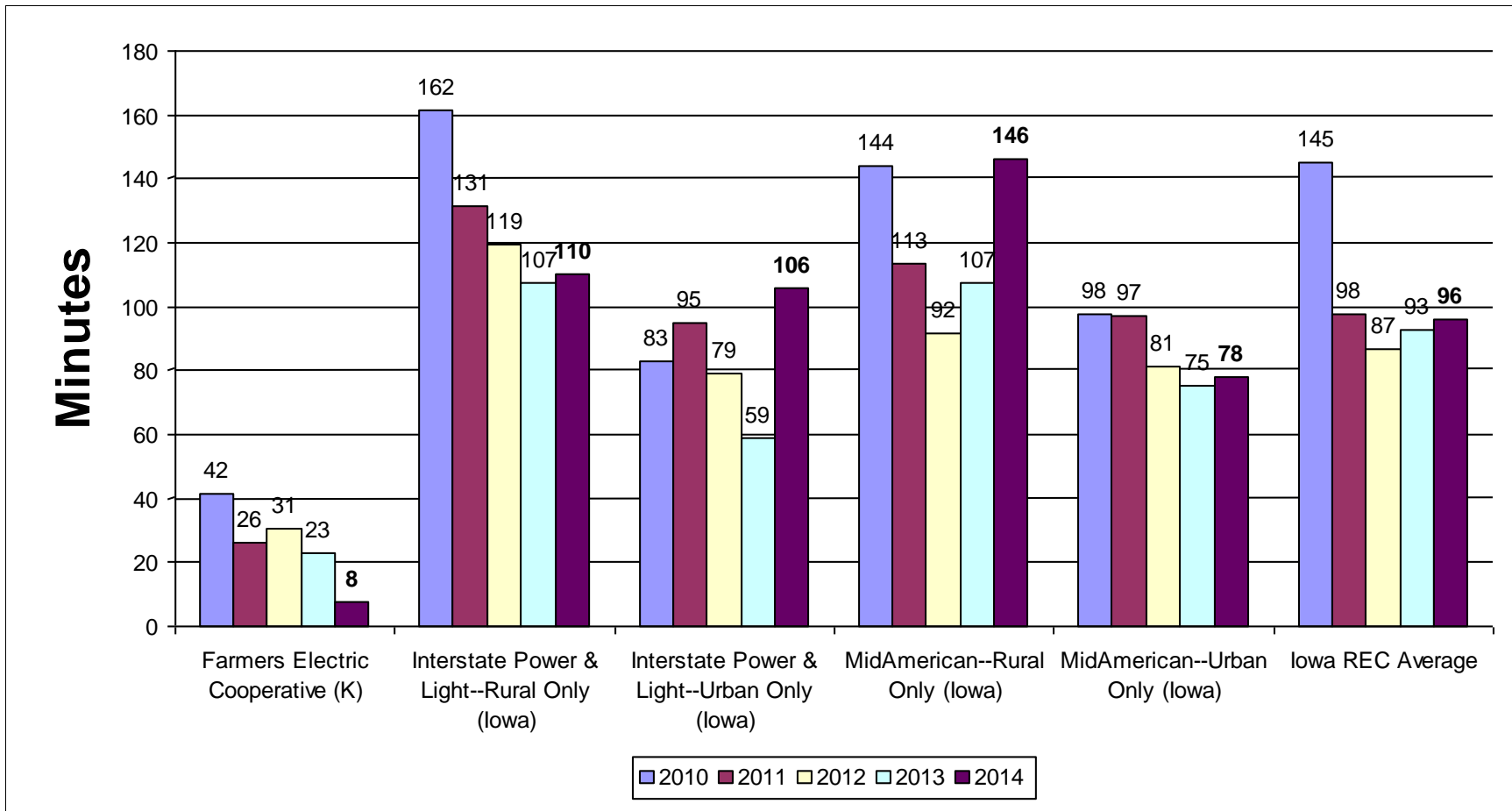
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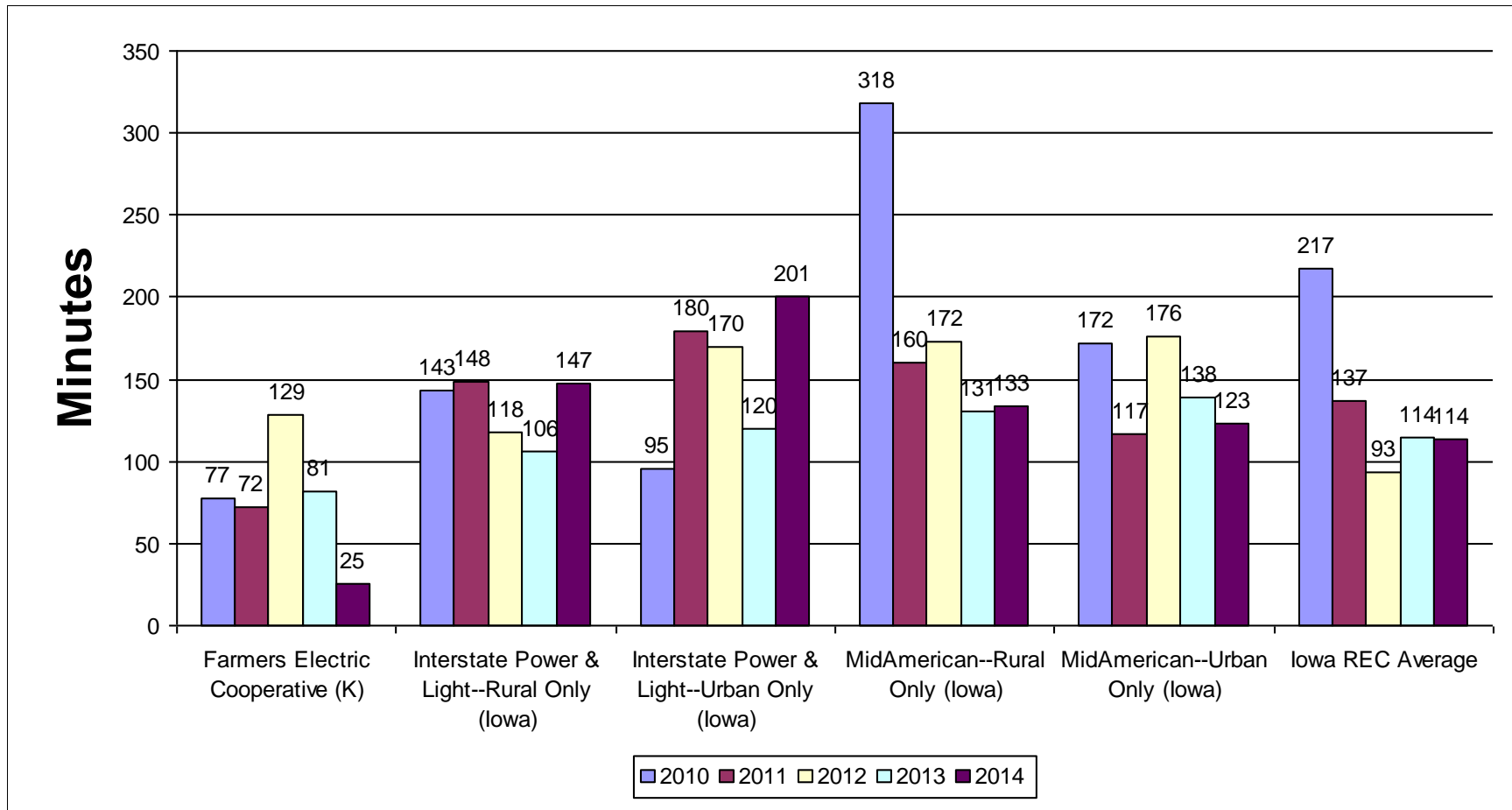
Customer Average Interruption Duration Index (CAIDI)

Average minutes per interruption for those customers who experienced an interruption or the average restoration time in minutes.

CAIDI is computed as follows:

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Includes Major Event



Farmers Electric Cooperative (K)

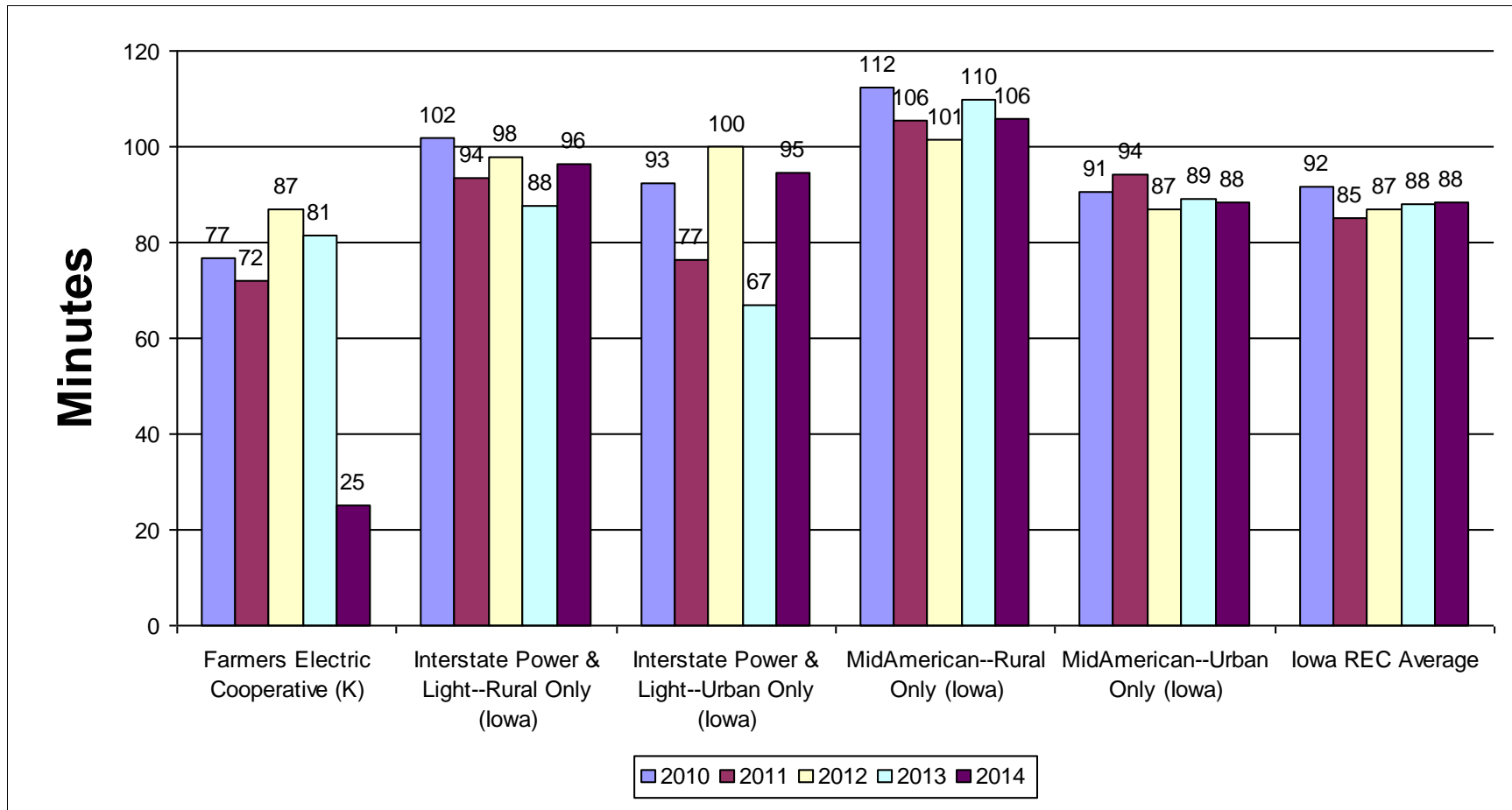
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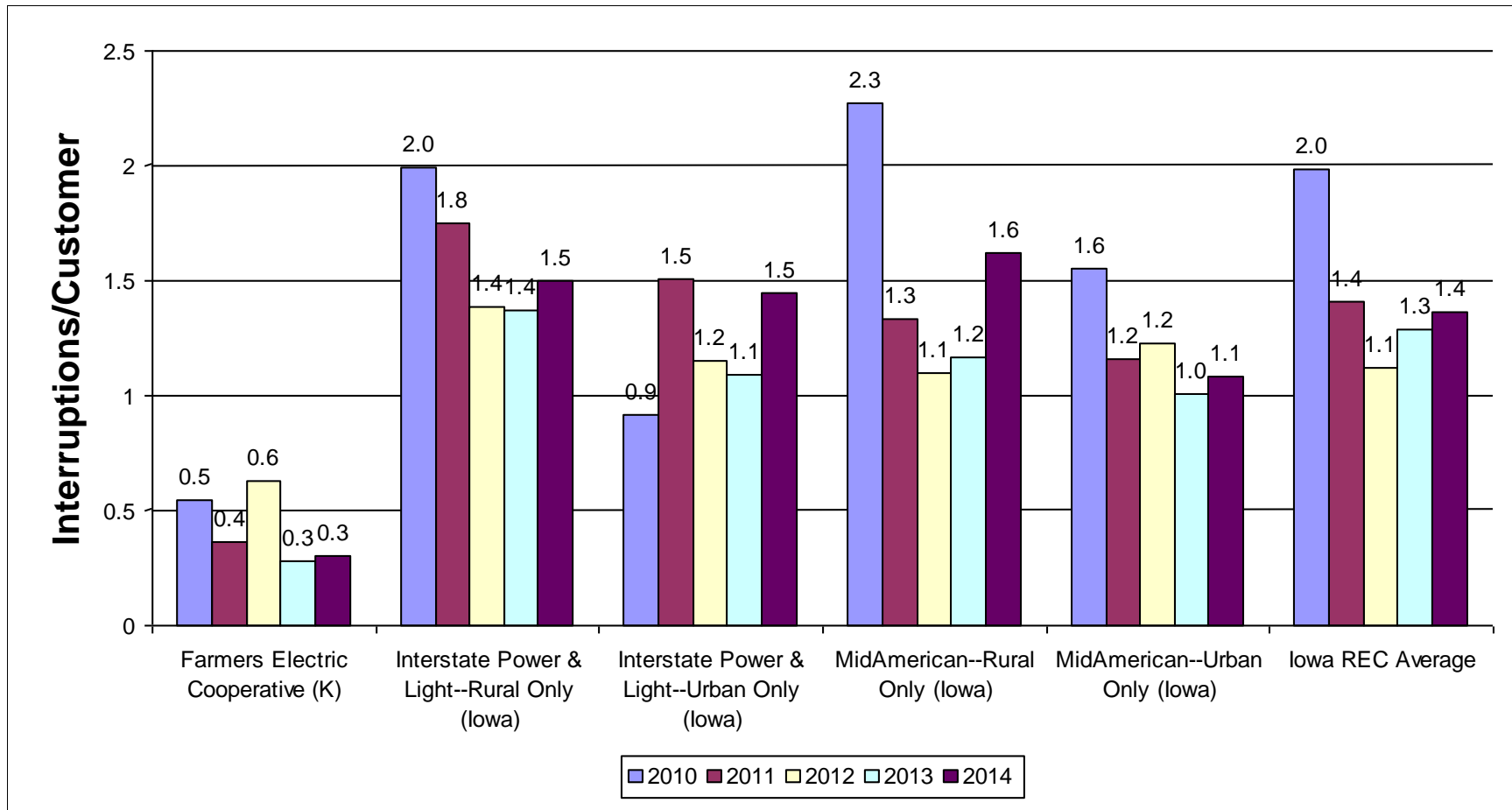
System Average Interruption Frequency Index (SAIFI)

Average number of interruptions per customer during the year

SAIFI is computed as follows:

$$\frac{\text{Total Number of Customer Interruptions}}{\text{Total Number of Customers Served}}$$

Includes Major Event



Farmers Electric Cooperative (K)

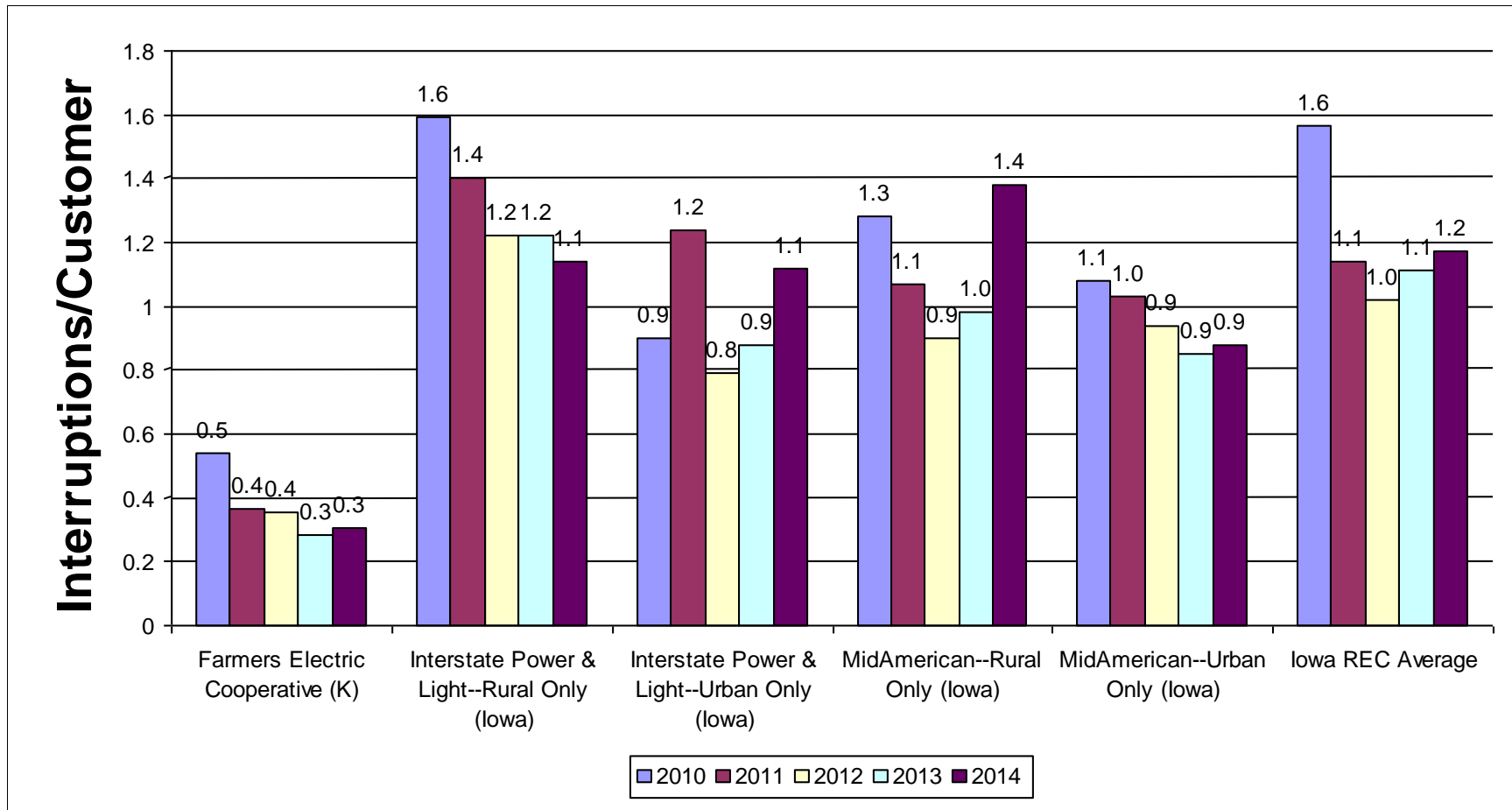
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Farmers Electric Cooperative (K)

Average Service Availability Index (ASAI)

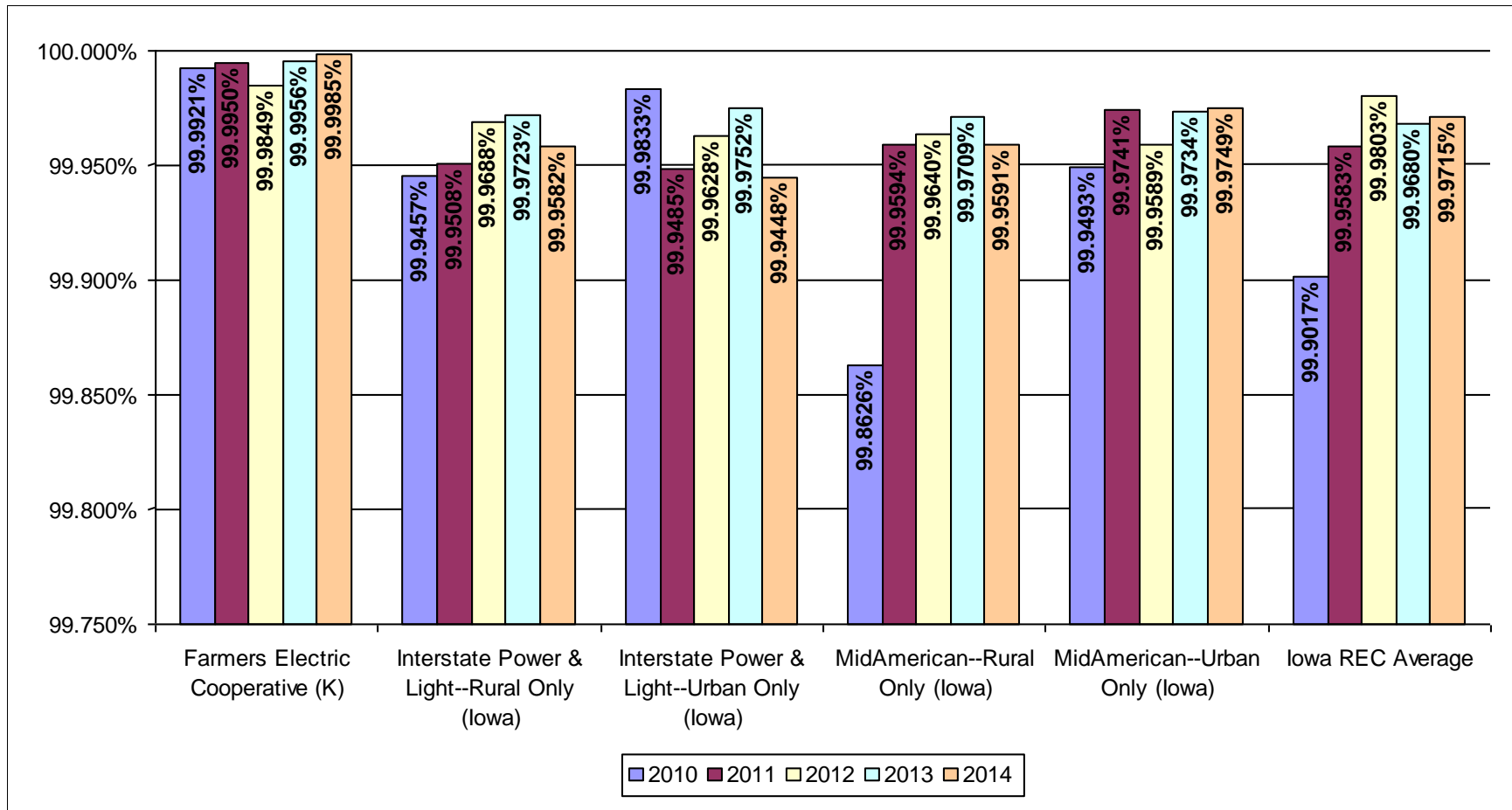
Percent of time power is available

ASAI is computed as follows:

$$\frac{\text{Customer hours service availability}}{\text{Customer hours service demand}}$$

Includes Major Event

Note: This index was computed by IAEC based on other index data.



Farmers Electric Cooperative (K)

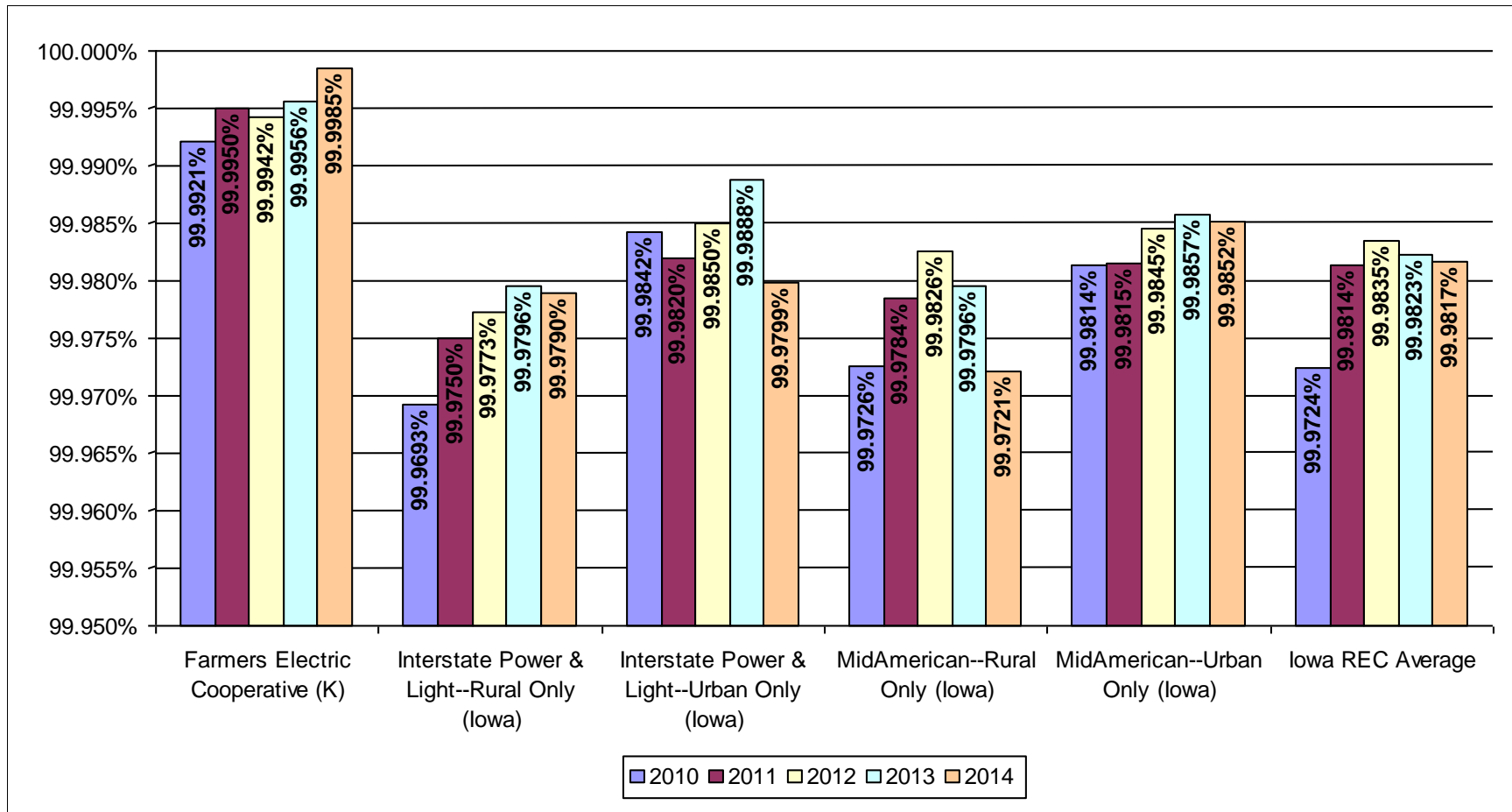
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Farmers Electric Cooperative (K)

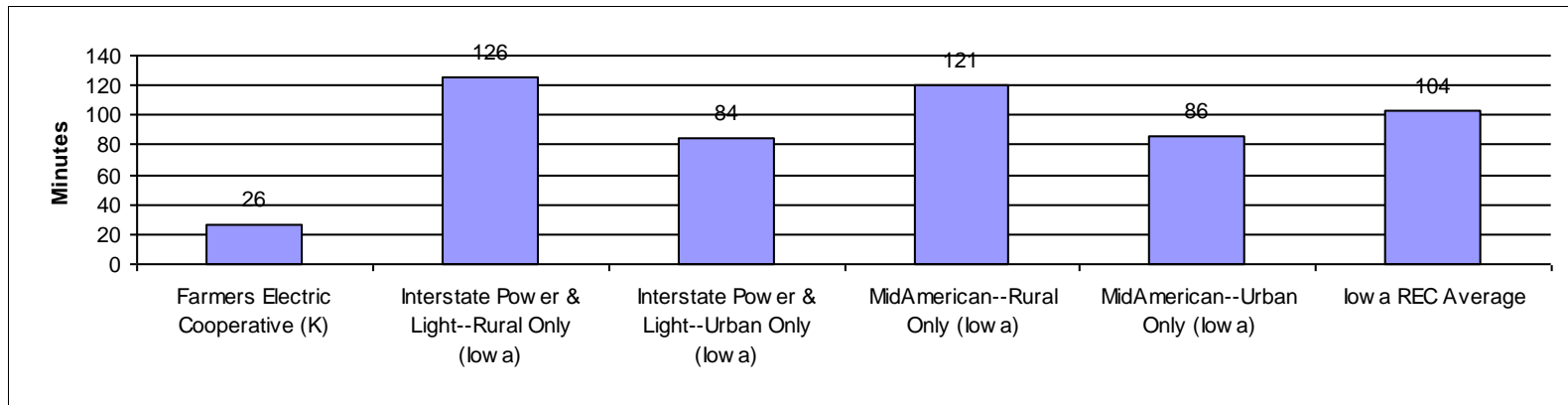
**5 Year
Average**

***System Average Interruption Duration Index (SAIDI)
Average Minutes of Interruptions per Consumer***

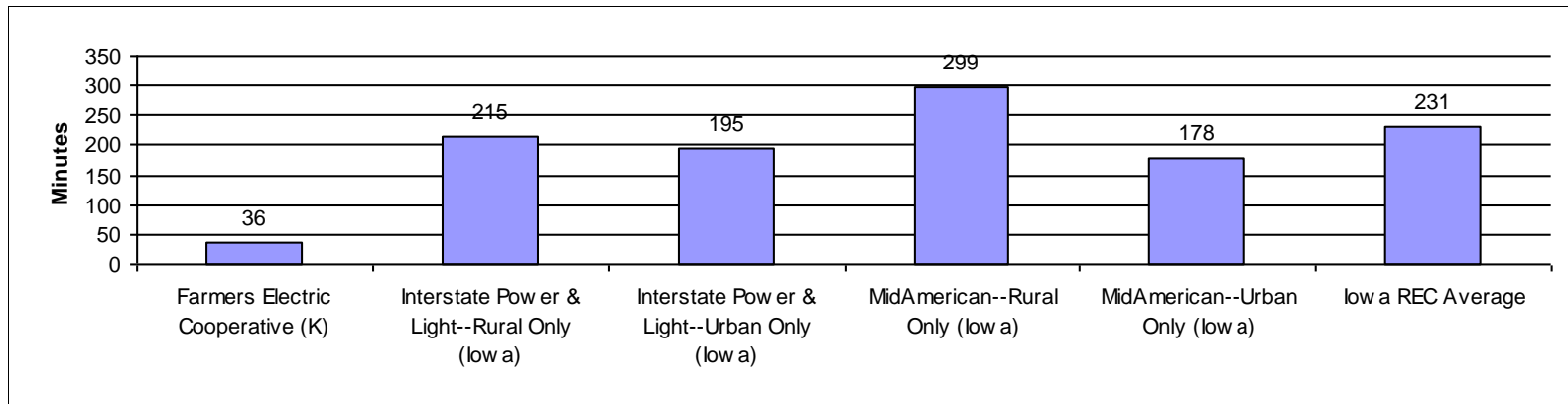
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Excludes Major Event



Includes Major Event



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Farmers Electric Cooperative (K)

**5 Year
Average**

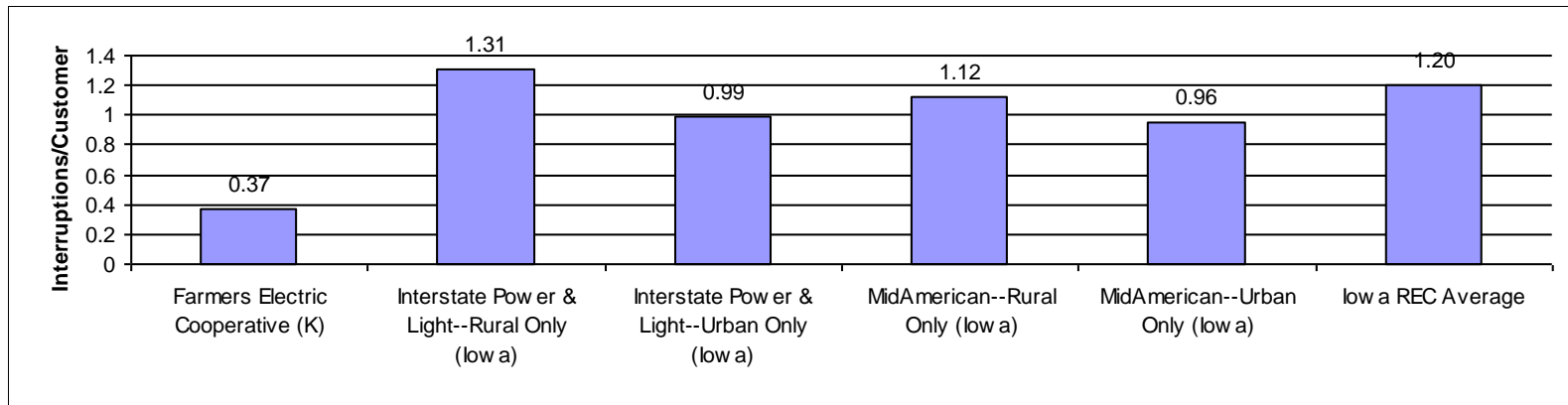
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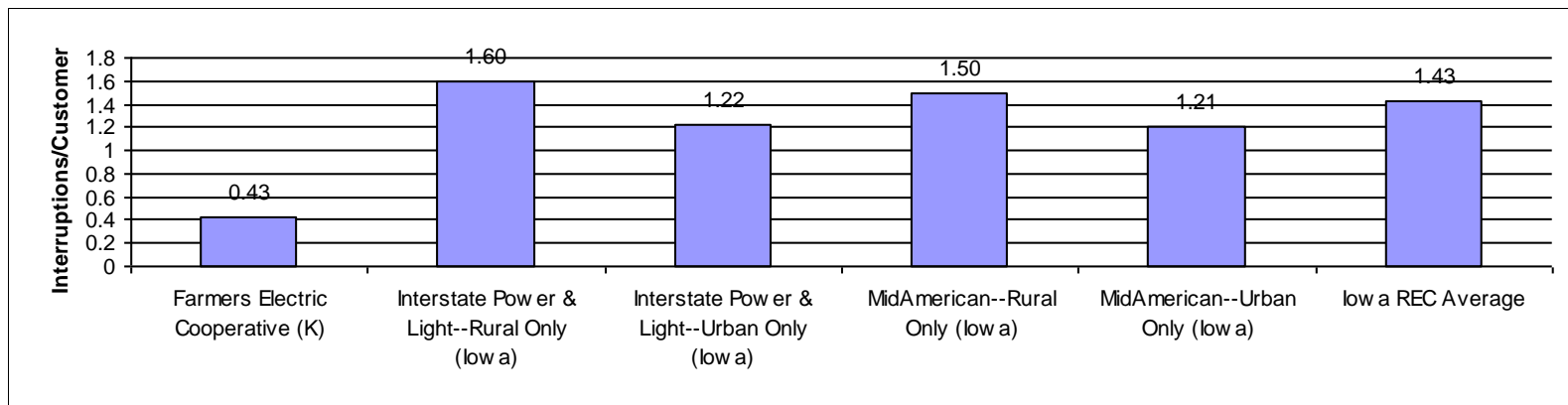
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Excludes Major Event



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Farmers Electric Cooperative (K)

5 Year Average

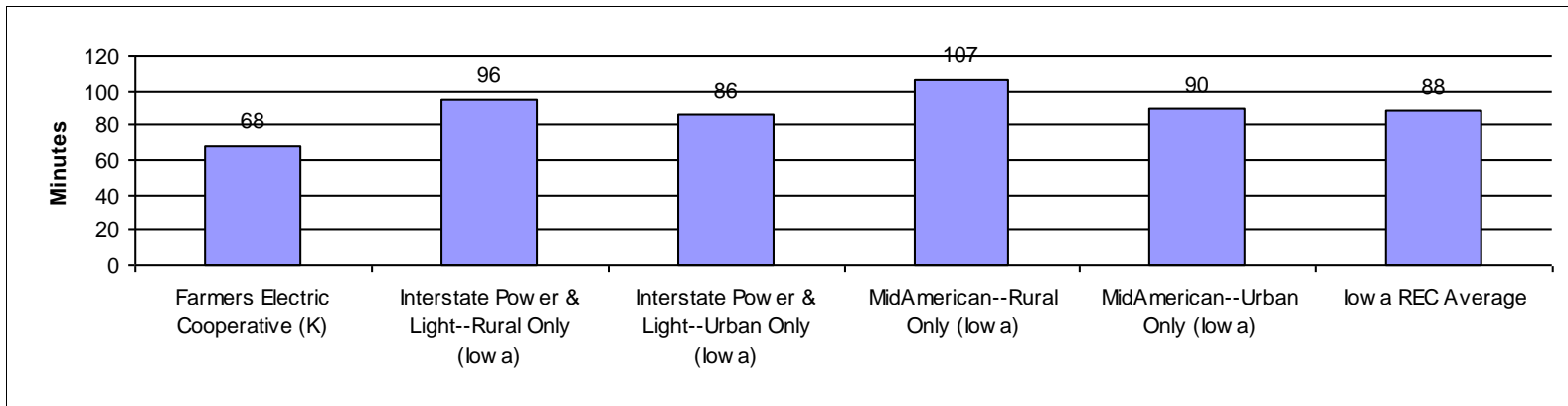
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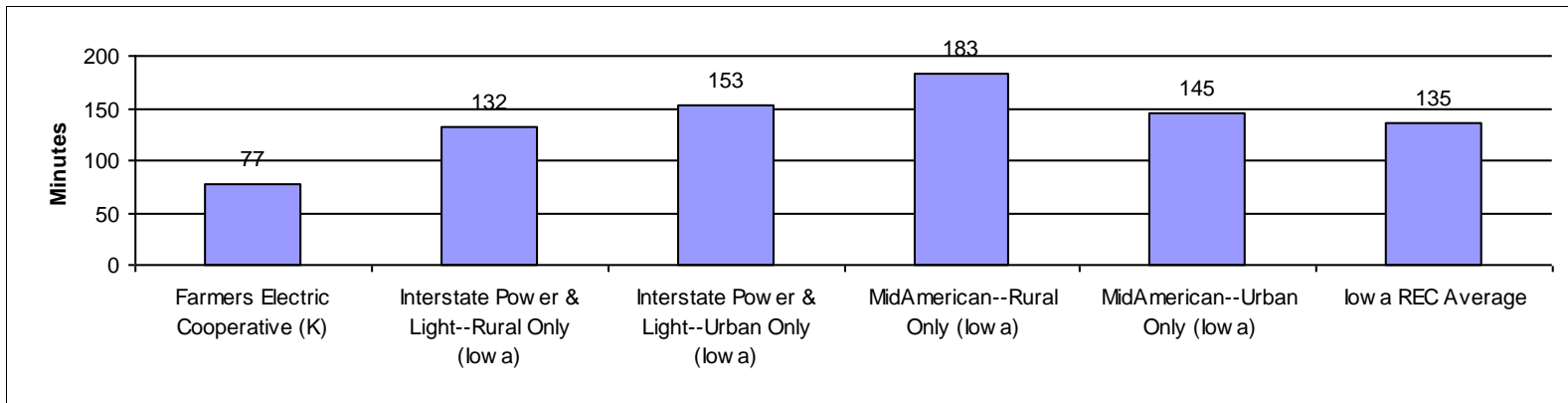
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Includes Major Event



Farmers Electric Cooperative (K)

**5 Year
Average**

Average Service Availability Index (ASAI)

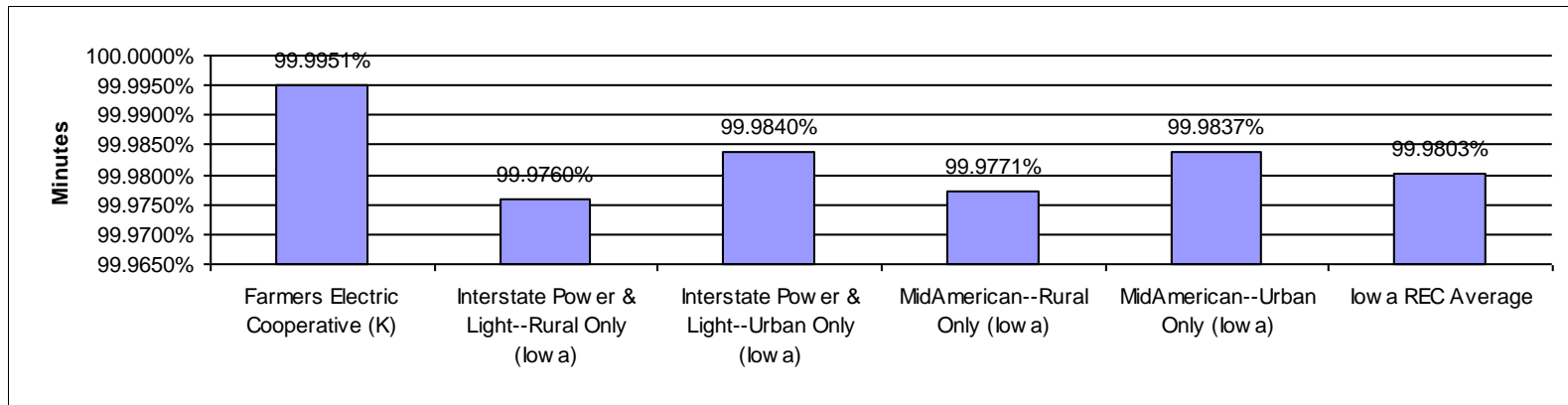
Percent of time power is available

ASAI is computed as follows:

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Excludes Major Event

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Includes Major Event

