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COMPANY NAME: Idaho Power Company

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LISA D. NORDSTROM
Lead Counsel
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May 1, 2013

Attention: Filing Center
Public Utility Commission of Oregon
550 Capitol Street NE, Suite 215
P. O. Box 2148
Salem, OR 97308-2148

Re: Idaho Power Company's Electric Service Reliability Annual Report for the
Year 2012

Dear Sir or Madam:

Idaho Power Company herewith transmits for electronic filing its Electric Service Reliability Annual Report for the Year 2012.

If you have any substantive questions, please call Perry Van Patten at 208-388-5944.

Very truly yours,

A handwritten signature in cursive script that reads "Lisa D. Nordstrom".

Lisa D. Nordstrom

LDN:kkt
Enclosures



**Idaho Power Company
2012 Electric Service
Reliability Annual Report**

May 2013

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EXECUTIVE SUMMARY

This document is written to present Idaho Power's 2012 Electric Service Reliability Annual Report. The report discusses the performance of Idaho Power's Oregon electric service through a narrative summary and includes several attached tables and charts.

At the end of 2012, Idaho Power served 18,679 customers from 63 distribution circuits served by the 39 substations in the far central-eastern portion of Oregon. The composite performance of the 63 circuits in 2012 included the following:

- 683 sustained (greater than five minutes) interruptions
- 469 momentary (less than five minutes) interruptions
- 66,603.60 customer hours out
- SAIDI of 3.57
- SAIFI of 1.43
- MAIFI_E of 4.70

Beginning this year, Idaho Power has added the calculation of a TMed and monitored its system for major event day (MED) occurrences. All of the indices, graphs, and charts are populated both with and without MED occurrences. The TMed for the 2012 reporting year was CAIDI of 300 and Day SAIDI of 12.89. This calculation was based on the IEEE 1366 methodology. Following this criteria, Idaho Power experienced two MEDs, which are summarized in tables 10 and 11.

For 2013, the company's CAIDI remains at 300 and the Day SAIDI is at 11.25.

SAIFI with MED included was at 1.43, an increase of .02 over 2011. Without MED included, SAIFI was 1.20, a decrease of .21 over 2011.

SAIDI with MED included was at 3.57, an increase from 2011 of .10. Without MED included, SAIDI was at 2.27, a decrease of 1.2 over 2011.

MAIFI_E with MED included was at 4.70, an increase over 2011 of 1.20. Without MED included, MAIFI_E was 4.54, an increase of 1.04 over 2011.

Attached system charts and tables show Idaho Power's Oregon system performance (all 63 Oregon circuits) over five years for the reliability indices of SAIDI, SAIFI, and MAIFI_E. Only the current reporting year (2012) shows the calculation with and without MED calculations.

Tables 1 through 3 lists five years of circuit reliability for the three reliability indices.

Table 4 lists 2012 circuit data for the three reliability indices with and without MEDs in descending order.

Figures 1 through 3 provide graphic representation of the circuits in descending order for the three reliability indices. Also attached are charts for each Oregon circuit by reliability index, graphed to represent the indices with and without MEDs.

Figure 7 is a bar chart showing the 12 types of sustained interruption causes as a percent of total.

The top five causes of Idaho Power's sustained interruptions in 2012 were due to the following:

- Equipment Failure
- Unknown
- Adverse Environment
- Scheduled Outages
- Loss of Supply

Refer to Table 5 for a breakdown by cause and the associated number of occurrences for each cause as well as the percentage of the total for the last five years.

Table 6 provides a ranking of the 2012 sustained-interruption causes by occurrences and by customer hours without service. The attached chart for interruption causes shows five years of system data for each of the 12 types of interruption causes.

Table 7 provides a ranking in the 2012 momentary interruption causes by occurrences.

Table 8, new this year, lists all of Idaho Power's circuits in Oregon, the substation they are fed from, their voltage, and the number of customers served¹.

Table 9 provides five years of line/trench miles and customer count data. Data differentiating overhead from underground service is now available and is included in this table.

Idaho Power continues to implement programs and projects to help improve customer service and electric service reliability. Some of the programs include the annual Oregon safety inspection/reliability patrols, line clearing program, and annual maintenance projects.

¹ The customer counts represented in this report are not meant to match those represented on the various other charts/data as a different source was used in order to establish voltage.

DEFINITIONS

CAIDI—Customer Average Interruption Duration Index

Institute of Electrical Electronic Engineers Standard 1366 (IEEE1366)—The *IEEE Guide for Electric Power Distribution Reliability Indices* (2003 edition), approved on December 10, 2003, by the IEEE Standards Association (IEEE-SA) Standards Board and on April 26, 2004, by the American National Standards Institute (ANSI).

MAIFIE—Momentary Average Interruption Event Frequency Index

Major Event—An event that exceeds the reasonable design and or operational limits of the electric power system. A major event includes at least one major event day (MED).

Major Event Day (MED)—A day when the daily System Average Interruption Duration Index (SAIDI) exceeds a threshold value (TMED). For the purposes of calculating daily system SAIDI, any interruption that spans multiple calendar days is accrued to the day the interruption began. Statistically, days having a daily system SAIDI greater than TMED are days the energy delivery system experiences stresses beyond normally expected, such as severe weather. Activities occurring on MEDs should be analyzed and reported separately.

Operating Area(s)—Idaho Power's circuits in 1) the Jordan Valley region of the reporting area served by Idaho Power's Canyon Operations Center and 2) in the reporting area serviced by Idaho Power's Western Operations Center.

Reporting Area—Idaho Power's entire service area in Oregon.

SAIDI—System Average Interruption Duration Index

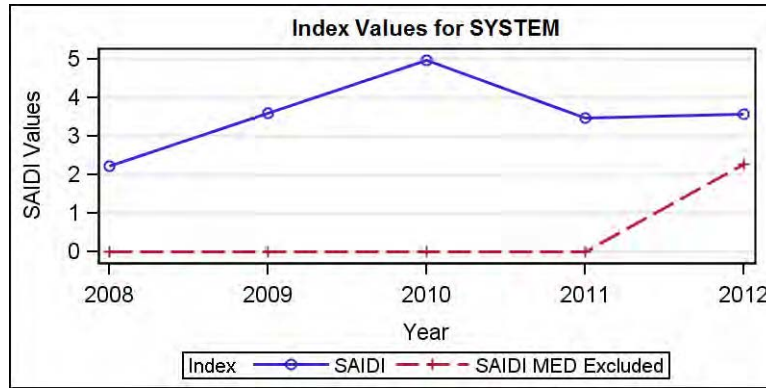
SAIFI—System Average Interruption Frequency Index

TMED—A major event day (MED) identification threshold value.

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SYSTEM SAIDI, SAIFI, AND MAIFI_E DATA

System SAIDI



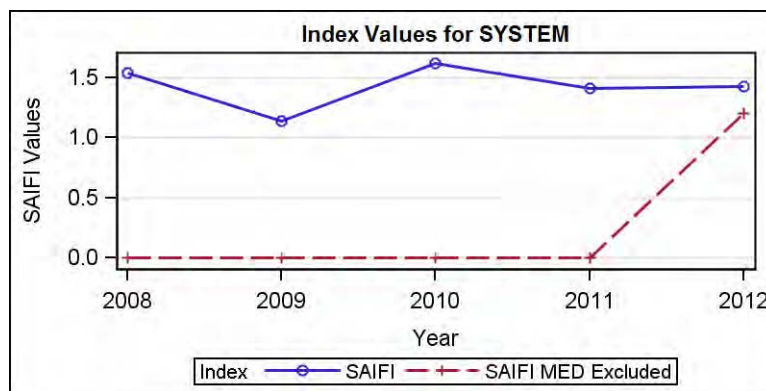
System SAIDI Values

2008	2009	2010	2011	2012	2012 MED
2.24	3.61	4.98	3.47	3.57	2.27

Figure 1

Five years of system reliability data with and without MED—system SAIDI values

System SAIFI



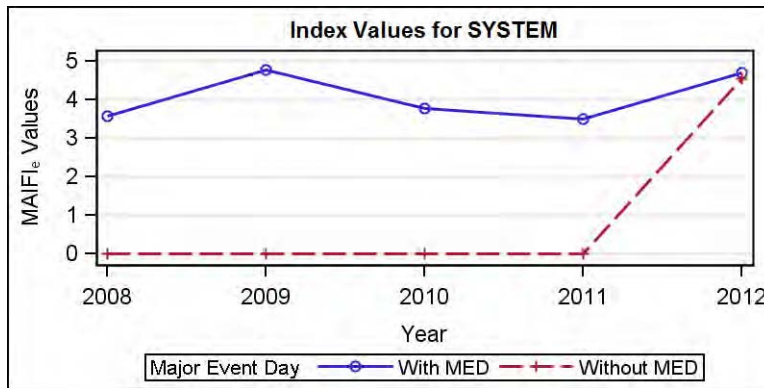
System SAIFI Values

2008	2009	2010	2011	2012	2012 MED
1.54	1.14	1.62	1.41	1.43	1.20

Figure 2

Five years of system reliability data with and without MED—system SAIFI values

System MAIFI_E



System MAIFI_E Values

2008	2009	2010	2011	2012	2012 MED
3.57	4.78	3.78	3.50	4.70	4.54

Figure 3

Five years of system reliability data with and without MED—system MAIFI_E values

Table 1
Five years of circuit SAIDI data with and without MED

Circuit	2008	2009	2010	2011	2012	2012 SAIDI
						MED Excluded
ADRN11	0.00	2.31	0.15	1.26	3.52	3.52
ADRN12	0.00	3.45	0.50	2.63	5.69	5.69
CARO11	1.26	0.73	5.48	1.26	0.39	0.39
CARO12	4.02	0.13	0.94	3.35	3.27	3.27
CARO13	0.31	0.08	1.75	0.91	1.40	1.40
CWVY11	3.14	0.33	2.98	2.86	1.88	1.72
CWVY12	10.44	2.61	50.35	7.80	11.19	11.19
DRKE11	3.55	9.42	11.67	7.41	1.95	1.95
DUKE11	5.93	2.96	0.00	9.94	9.08	6.53
DWSY11	7.28	5.19	2.37	9.50	1.63	1.63
ESTN11	7.97	1.57	9.72	0.00	6.53	6.53
HCSU11	0.00	0.00	0.00	0.00	1.17	1.17
HFVY11	4.10	4.16	21.65	9.59	10.66	2.11
HFVY12	12.96	7.10	0.18	13.12	9.72	1.05
HGTN11	1.29	2.30	15.86	2.15	7.67	7.67
HGTN12	0.00	0.03	3.86	0.13	1.82	1.82
HMDL12	5.01	10.87	2.48	0.79	3.38	3.38
HOLY11	4.70	3.65	4.48	0.84	1.56	1.56
HOLY12	0.25	1.63	2.62	0.89	1.23	1.23
HOLY13	0.81	2.01	2.24	0.50	4.56	4.54
HOPE11	6.01	3.09	5.67	3.25	1.62	1.62
HRPR11	5.94	15.35	26.48	8.45	1.41	1.11
HRPR12	18.58	13.83	11.13	7.12	5.81	5.81
JMSN11	0.71	4.59	8.24	4.78	1.79	1.67
JMSN12	0.61	1.01	4.90	0.44	13.04	13.04
JNTA11	7.40	5.91	7.81	7.19	1.57	1.57
JNTA12	6.13	1.76	9.38	5.23	5.44	5.44
JNVY11	3.63	19.28	36.95	36.21	31.27	6.96
JNVY12	8.71	20.93	44.29	38.47	31.19	6.58
JNVY31	10.58	31.32	38.77	42.42	34.08	10.10
LIME11	0.71	7.05	15.90	2.41	3.18	3.18
LIME12	0.51	0.03	25.53	8.11	0.00	0.00
MRBT41	7.05	1.86	1.09	56.83	0.65	0.65
MRBT42	0.37	0.28	0.15	0.10	5.44	5.44
NYSA11	0.33	2.71	0.46	0.39	0.22	0.22

Table 1 (continued)

Circuit	2008	2009	2010	2011	2012	2012 SAIDI MED Excluded
NYSA12	2.28	1.16	1.49	2.65	2.48	2.48
NYSA13	4.13	1.85	0.22	1.08	3.94	3.94
NYSA14	0.13	0.70	0.05	0.48	0.94	0.94
OBPR11	0.00	0.00	0.00	0.00	0.00	0.00
OBPR12	0.00	0.00	0.00	0.00	0.00	0.00
OIDA11	1.79	0.06	0.41	0.72	1.67	1.67
OIDA12	0.00	1.55	4.90	4.92	0.00	0.00
ONTO14	0.70	0.50	1.23	1.37	0.18	0.18
ONTO18	0.16	0.03	0.21	0.27	1.68	1.68
ONTO19	0.22	0.11	1.67	0.33	0.64	0.64
ONTO20	0.17	1.46	0.33	1.66	0.31	0.31
ONTO23	0.00	0.83	0.58	0.29	2.40	2.40
ONTO24	1.59	1.03	2.18	0.14	0.25	0.25
ONTO25	0.02	0.12	0.14	0.32	1.35	1.35
OYDM11	0.20	0.00	0.67	0.00	0.00	0.00
PNCK11	8.87	1.29	17.36	14.37	10.47	7.82
PNCK12	1.28	0.00	0.00	14.20	2.52	0.00
PRMA12	0.00	0.00	0.83	4.42	14.92	14.92
PRMA42	6.22	6.24	6.64	0.27	0.34	0.34
RKVL11	43.75	21.75	54.96	29.68	21.49	3.19
UNTY11	2.73	0.65	0.47	1.89	1.76	1.76
UNTY12	2.51	0.87	0.31	1.66	3.82	3.82
VALE11	0.37	0.29	0.75	1.08	0.99	0.99
VALE13	0.43	34.59	19.98	2.14	9.85	9.85
VALE14	0.48	0.92	2.67	5.43	0.62	0.62
VALE15	5.48	0.53	0.54	0.63	3.01	3.01
WESR13	0.22	7.79	1.52	0.35	0.40	0.40
WESR14	0.17	0.91	0.52	0.42	2.60	2.60

Table 2
Five years of circuit SAIFI data with and without MED

Circuit	2008	2009	2010	2011	2012	2012 SAIFI
						MED Excluded
ADRN11	0.00	1.73	0.11	3.37	2.88	2.88
ADRN12	3.37	0.47	4.47	1.38	2.60	2.60
CARO11	1.38	0.24	1.07	4.27	0.25	0.25
CARO12	4.27	0.05	1.07	1.16	0.71	0.71
CARO13	1.16	0.13	0.27	1.20	0.42	0.42
CWVY11	1.20	0.73	3.17	0.47	1.24	1.09
CWVY12	0.47	5.30	4.35	2.37	1.87	1.87
DRKE11	2.37	2.31	0.00	3.48	0.80	0.80
DUKE11	3.48	3.25	1.29	3.37	1.19	0.59
DWSY11	3.37	1.00	7.00	0.00	0.49	0.49
ESTN11	0.00	0.00	0.00	0.00	4.00	4.00
HCSU11	0.00	1.50	5.14	3.51	1.00	1.00
HFVY11	3.51	2.46	0.11	4.33	2.34	0.77
HFVY12	4.33	1.02	3.29	1.69	1.39	0.33
HGTN11	1.69	0.01	1.14	0.99	1.77	1.77
HGTN12	0.99	7.60	2.34	0.55	0.69	0.69
HMDL12	0.55	3.33	3.14	1.29	1.32	1.32
HOLY11	1.29	1.17	3.27	1.28	0.34	0.34
HOLY12	1.28	1.31	2.42	1.06	0.32	0.32
HOLY13	1.06	3.20	2.24	1.87	1.17	1.14
HOPE11	1.87	3.21	8.06	3.87	0.60	0.60
HRPR11	3.87	3.52	4.37	3.25	0.26	0.19
HRPR12	3.25	2.26	3.77	4.06	0.82	0.82
JMSN11	4.06	0.52	1.48	0.24	1.10	1.05
JMSN12	0.24	2.27	3.42	3.38	2.54	2.54
JNTA11	3.38	1.12	4.30	2.06	0.53	0.53
JNTA12	2.06	6.26	8.19	7.00	0.24	0.24
JNVY11	7.00	6.12	7.56	7.43	5.86	3.00
JNVY12	7.43	8.59	8.26	7.62	5.10	2.44
JNVY31	7.62	2.52	1.94	1.32	7.57	3.78
LIME11	1.32	0.04	5.04	3.55	1.35	1.35
LIME12	3.55	0.39	1.22	1.83	0.00	0.00
MRBT41	1.83	0.20	0.10	0.10	0.25	0.25
MRBT42	0.10	1.86	0.77	0.14	0.60	0.60
NYSA11	0.14	1.20	0.95	2.01	0.10	0.10

Table 2 (continued)

Circuit	2008	2009	2010	2011	2012	2012 SAIFI
						MED Excluded
NYSA12	2.01	1.95	0.16	0.40	2.49	2.49
NYSA13	0.40	1.17	0.03	0.30	1.51	1.51
NYSA14	0.30	0.00	0.00	0.00	0.60	0.60
OBPR11	0.00	0.00	0.00	0.00	0.00	0.00
OBPR12	0.00	0.03	0.66	1.14	0.00	0.00
OIDA11	1.14	1.00	4.00	3.00	1.09	1.09
OIDA12	3.00	1.00	1.00	3.10	0.00	0.00
ONTO14	3.10	0.04	0.10	0.20	0.14	0.14
ONTO18	0.20	0.05	0.53	0.16	1.02	1.02
ONTO19	0.16	0.12	0.21	0.46	1.10	1.10
ONTO20	0.46	1.98	1.02	0.22	0.18	0.18
ONTO23	0.22	0.50	1.90	0.07	2.00	2.00
ONTO24	0.07	0.04	0.09	0.19	0.16	0.16
ONTO25	0.19	0.00	0.27	0.00	1.07	1.07
OYDM11	0.00	0.61	3.95	4.31	0.00	0.00
PNCK11	4.31	0.00	0.00	5.00	2.27	1.26
PNCK12	0.00	0.00	0.50	3.00	1.00	0.00
PRMA12	5.00	3.94	3.16	0.18	3.00	3.00
PRMA42	0.18	5.96	6.28	6.11	0.22	0.22
RKVL11	6.11	0.19	0.16	0.44	5.22	2.22
UNTY11	0.44	0.22	0.82	0.55	1.08	1.08
UNTY12	0.55	0.24	0.31	0.66	1.68	1.68
VALE11	0.66	0.49	3.58	0.81	1.07	1.07
VALE13	0.81	0.49	1.55	3.08	4.37	4.37
VALE14	3.08	0.24	0.23	0.56	0.59	0.59
VALE15	0.56	2.25	0.47	0.02	1.76	1.76
WESR13	0.02	0.22	0.35	0.24	0.30	0.30
WESR14	0.00	0.00	0.00	0.00	1.21	1.21

Table 3
Five years of circuit MAIFI_E data with and without MED

Circuit	2008	2009	2010	2011	2012	2012 MAIFI _E
						MED Excluded
ADRN11	3.91	3.04	2.81	3.52	2.73	2.73
ADRN12	3.33	2.00	4.27	3.44	6.44	6.44
CARO11	3.00	4.00	3.00	1.00	7.69	7.69
CARO12	10.00	10.00	7.00	0.00	3.90	3.90
CARO13	10.55	9.98	11.62	5.71	3.00	3.00
CWVY11	2.00	19.13	6.04	1.09	6.00	6.00
CWVY12	6.00	6.00	2.00	7.00	6.13	6.13
DRKE11	16.76	5.87	19.53	18.26	11.59	11.59
DUKE11	0.00	0.00	0.00	0.00	0.00	0.00
DWSY11	0.00	0.00	0.00	0.00	12.00	11.15
ESTN11	5.27	9.50	15.60	12.75	0.00	0.00
HCSU11	9.03	8.79	9.20	14.32	0.00	0.00
HFVY11	2.11	4.10	1.20	3.00	14.15	12.23
HFVY12	1.00	2.00	0.00	2.00	3.81	3.10
HGTN11	7.00	40.98	20.03	4.52	5.00	5.00
HGTN12	4.00	3.00	1.00	0.00	0.00	0.00
HMDL12	5.00	2.00	1.00	2.00	3.50	3.50
HOLY11	6.16	5.28	1.49	1.29	2.00	2.00
HOLY12	0.00	6.00	22.17	3.22	1.00	1.00
HOLY13	14.30	7.00	17.00	0.00	3.34	3.34
HOPE11	21.64	7.65	23.07	8.27	1.44	1.44
HRPR11	9.00	14.00	13.00	0.00	0.00	0.00
HRPR12	8.38	9.93	6.00	6.38	4.99	4.99
JMSN11	18.00	4.00	19.00	17.00	6.00	6.00
JMSN12	16.00	4.00	20.00	0.00	6.18	6.18
JNTA11	9.22	12.45	6.36	16.85	12.00	11.00
JNTA12	10.00	22.00	14.00	16.00	0.00	0.00
JNVY11	11.81	24.03	19.54	21.16	6.31	4.31
JNVY12	1.00	8.00	4.77	1.25	8.00	5.00
JNVY31	1.27	2.00	2.35	0.00	9.84	8.35
LIME11	4.00	11.00	5.00	0.00	1.70	1.70
LIME12	7.00	3.00	0.00	4.00	0.00	0.00
MRBT41	1.00	0.00	0.60	0.68	0.00	0.00
MRBT42	5.78	4.62	1.08	4.07	2.00	2.00
NYSA11	1.86	0.07	0.00	0.00	0.00	0.00

Table 3 (continued)

Circuit	2008	2009	2010	2011	2012	2012 MAIFI _E
						MED Excluded
NYSA12	1.00	0.39	1.00	0.00	7.86	7.86
NYSA13	0.00	0.00	0.00	0.00	0.00	0.00
NYSA14	0.00	0.00	0.00	0.00	1.00	1.00
OBPR11	5.19	0.00	1.30	0.14	0.00	0.00
OBPR12	1.00	0.00	1.00	0.00	0.00	0.00
OIDA11	0.00	2.00	1.00	0.00	1.07	1.07
OIDA12	0.00	4.00	1.00	0.00	0.00	0.00
ONTO14	1.00	2.00	6.00	1.11	0.00	0.00
ONTO18	1.00	5.17	1.00	0.00	2.00	2.00
ONTO19	0.00	0.00	1.00	4.00	4.87	4.87
ONTO20	3.63	2.00	14.00	1.49	0.00	0.00
ONTO23	0.00	17.45	1.00	0.00	6.00	6.00
ONTO24	3.00	0.00	0.00	0.00	5.96	5.96
ONTO25	9.45	8.70	6.23	7.55	3.00	3.00
OYDM11	0.00	20.00	0.00	0.00	0.00	0.00
PNCK11	0.00	0.00	0.00	3.00	3.14	2.14
PNCK12	34.96	14.07	9.00	2.00	0.00	0.00
PRMA12	4.00	10.07	11.00	17.00	4.00	4.00
PRMA42	14.13	3.27	14.00	9.40	6.57	6.57
RKVL11	12.90	6.61	7.56	5.91	8.00	5.00
UNTY11	3.00	2.07	1.54	3.67	7.27	7.27
UNTY12	3.71	2.70	10.37	3.56	6.30	6.30
VALE11	4.00	0.52	2.00	0.00	2.68	2.68
VALE13	1.47	1.00	0.67	4.00	7.83	7.83
VALE14	3.00	0.52	3.79	0.00	9.00	9.00
VALE15	11.00	1.00	1.00	0.00	4.00	4.00
WESR13	0.00	0.00	0.00	0.00	1.00	1.00
WESR14	0.00	0.00	0.00	0.00	3.45	3.45

Table 4
2012 descending order sort of reliability indices by circuit

Circuit	SAIDI		Circuit	SAIFI		Circuit	MAIFI _E	
	SAIDI	MED Excluded		SAIFI	MED Excluded		MAIFI _E	MED Excluded
JNVY31	34.08	10.10	JNVY31	8.36	4.41	HFVY11	14.15	12.23
JNVY11	31.27	6.96	JNVY11	6.18	3.18	JNTA11	12.00	11.00
JNVY12	31.19	6.58	JNVY12	6.12	3.06	DWSY11	12.00	11.15
RKVL11	21.49	3.19	RKVL11	5.22	2.22	DRKE11	11.59	11.59
PRMA12	14.92	14.92	VALE13	4.37	4.37	JNVY31	9.84	8.35
JMSN12	13.04	13.04	ESTN11	4.00	4.00	VALE14	9.00	9.00
CWVY12	11.19	11.19	ADRN11	3.34	3.34	RKVL11	8.00	5.00
HFVY11	10.66	2.11	ADRN12	3.02	3.02	JNVY12	8.00	5.00
PNCK11	10.47	7.82	PRMA12	3.00	3.00	NYSA12	7.86	7.86
VALE13	9.85	9.85	HFVY11	2.90	0.90	VALE13	7.83	7.83
HFVY12	9.72	1.05	HGTN11	2.84	2.84	CARO11	7.69	7.69
DUKE11	9.08	6.53	JMSN12	2.83	2.83	UNTY11	7.27	7.27
HGTN11	7.67	7.67	CWVY12	2.68	2.68	PRMA42	6.57	6.57
ESTN11	6.53	6.53	DUKE11	2.59	1.59	ADRN12	6.44	6.44
HRPR12	5.81	5.81	NYSA12	2.49	2.49	JNVY11	6.31	4.31
ADRN12	5.69	5.69	PNCK11	2.27	1.26	UNTY12	6.30	6.30
JNTA12	5.44	5.44	ONTO23	2.00	2.00	JMSN12	6.18	6.18
MRBT42	5.44	5.44	LIME11	1.94	1.94	CWVY12	6.13	6.13
HOLY13	4.56	4.54	VALE15	1.76	1.76	ONTO23	6.00	6.00
NYSA13	3.94	3.94	HFVY12	1.71	0.37	CWVY11	6.00	6.00
UNTY12	3.82	3.82	UNTY12	1.68	1.68	JMSN11	6.00	6.00
ADRN11	3.52	3.52	NYSA13	1.51	1.51	ONTO24	5.96	5.96
HMDL12	3.38	3.38	HMDL12	1.50	1.50	HGTN11	5.00	5.00
CARO12	3.27	3.27	HOLY13	1.46	1.43	HRPR12	4.99	4.99
LIME11	3.18	3.18	JNTA11	1.37	1.37	ONTO19	4.87	4.87
VALE15	3.01	3.01	DWSY11	1.23	1.23	VALE15	4.00	4.00
WESR14	2.60	2.60	HRPR12	1.23	1.23	PRMA12	4.00	4.00
PNCK12	2.52	0.00	JMSN11	1.21	1.16	CARO12	3.90	3.90
NYSA12	2.48	2.48	WESR14	1.21	1.21	HFVY12	3.81	3.10
ONTO23	2.40	2.40	MRBT41	1.15	1.15	HMDL12	3.50	3.50
DRKE11	1.95	1.95	CWVY11	1.13	1.09	WESR14	3.45	3.45
CWVY11	1.88	1.72	MRBT42	1.10	1.10	HOLY13	3.34	3.34
HGTN12	1.82	1.82	ONTO19	1.10	1.10	PNCK11	3.14	2.14
JMSN11	1.79	1.67	OIDA11	1.09	1.09	CARO13	3.00	3.00
UNTY11	1.76	1.76	UNTY11	1.08	1.08	ONTO25	3.00	3.00

Table 4 (continued)

Circuit	SAIDI		Circuit	SAIFI		Circuit	MAIFI _E	
	SAIDI	MED Excluded		SAIFI	MED Excluded		MAIFI _E	MED Excluded
ONTO18	1.68	1.68	DRKE11	1.07	1.07	ADRN11	2.73	2.73
OIDA11	1.67	1.67	VALE11	1.07	1.07	VALE11	2.68	2.68
DWSY11	1.63	1.63	ONTO25	1.07	1.07	MRBT42	2.00	2.00
HOPE11	1.62	1.62	JNTA12	1.04	1.04	HOLY11	2.00	2.00
JNTA11	1.57	1.57	HGTN12	1.04	1.04	ONTO18	2.00	2.00
HOLY11	1.56	1.56	ONTO18	1.02	1.02	LIME11	1.70	1.70
HRPR11	1.41	1.11	PNCK12	1.00	0.00	HOPE11	1.44	1.44
CARO13	1.40	1.40	HCSU11	1.00	1.00	OIDA11	1.07	1.07
ONTO25	1.35	1.35	CARO12	0.82	0.82	HOLY12	1.00	1.00
HOLY12	1.23	1.23	NYSA14	0.60	0.60	NYSA14	1.00	1.00
HCSU11	1.17	1.17	VALE14	0.59	0.59	WESR13	1.00	1.00
VALE11	0.99	0.99	CARO13	0.49	0.49	DUKE11	0.00	0.00
NYSA14	0.94	0.94	HOPE11	0.46	0.46	HGTN12	0.00	0.00
MRBT41	0.65	0.65	HOLY11	0.43	0.43	NYSA11	0.00	0.00
ONTO19	0.64	0.64	HOLY12	0.38	0.38	ESTN11	0.00	0.00
VALE14	0.62	0.62	WESR13	0.30	0.30	HCSU11	0.00	0.00
WESR13	0.40	0.40	CARO11	0.29	0.29	HRPR11	0.00	0.00
CARO11	0.39	0.39	HRPR11	0.29	0.21	JNTA12	0.00	0.00
PRMA42	0.34	0.34	PRMA42	0.22	0.22	LIME12	0.00	0.00
ONTO20	0.31	0.31	ONTO20	0.18	0.18	MRBT41	0.00	0.00
ONTO24	0.25	0.25	ONTO24	0.16	0.16	NYSA13	0.00	0.00
NYSA11	0.22	0.22	ONTO14	0.14	0.14	OBPR11	0.00	0.00
ONTO14	0.18	0.18	NYSA11	0.13	0.13	OBPR12	0.00	0.00
LIME12	0.00	0.00	LIME12	0.00	0.00	OIDA12	0.00	0.00
OIDA12	0.00	0.00	OIDA12	0.00	0.00	ONTO14	0.00	0.00
OBPR11	0.00	0.00	OYDM11	0.00	0.00	ONTO20	0.00	0.00
OBPR12	0.00	0.00	OBPR12	0.00	0.00	OYDM11	0.00	0.00
OYDM11	0.00	0.00	OBPR11	0.00	0.00	PNCK12	0.00	0.00

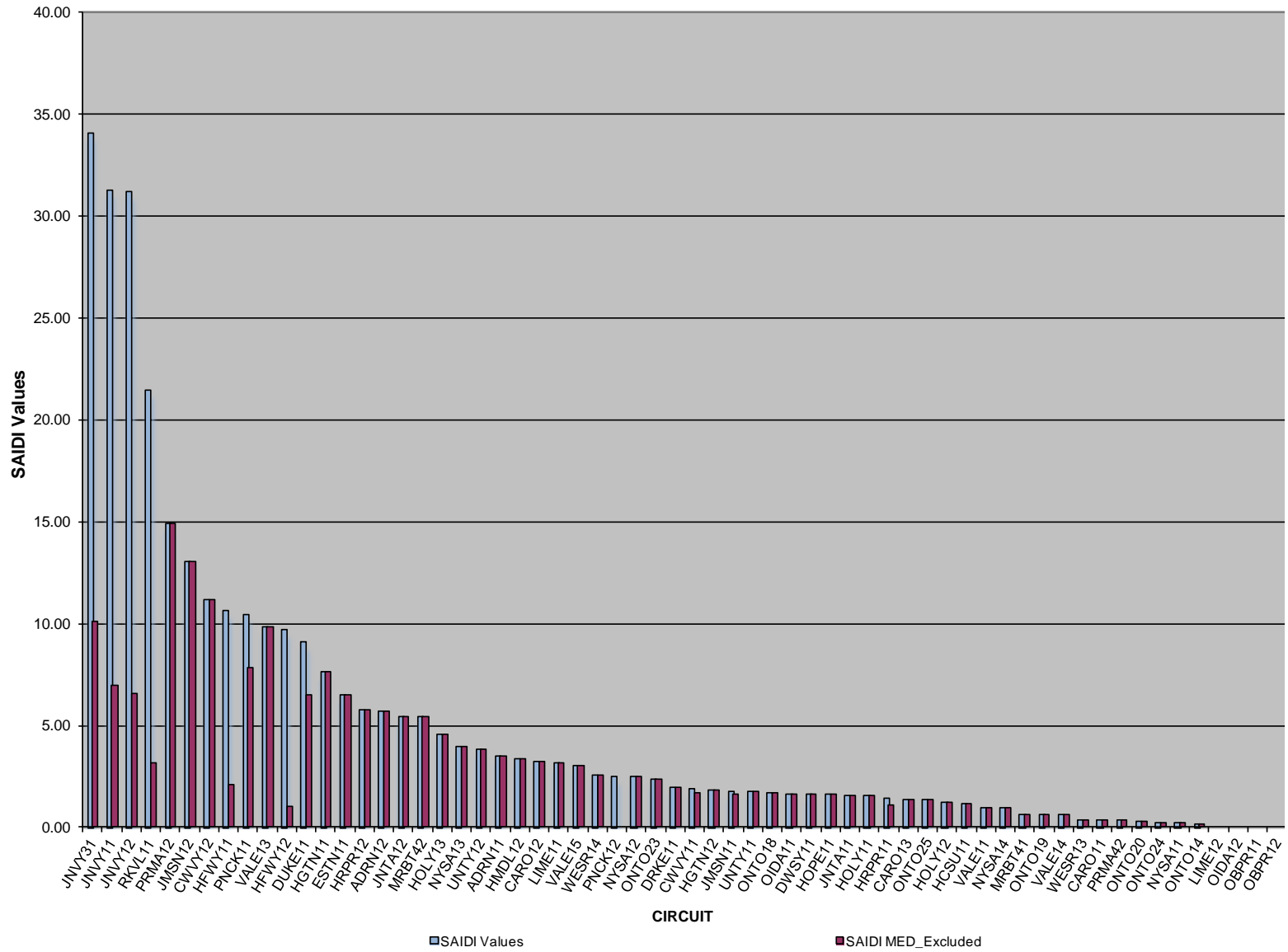


Figure 4
2012 circuit SAIDI descending values

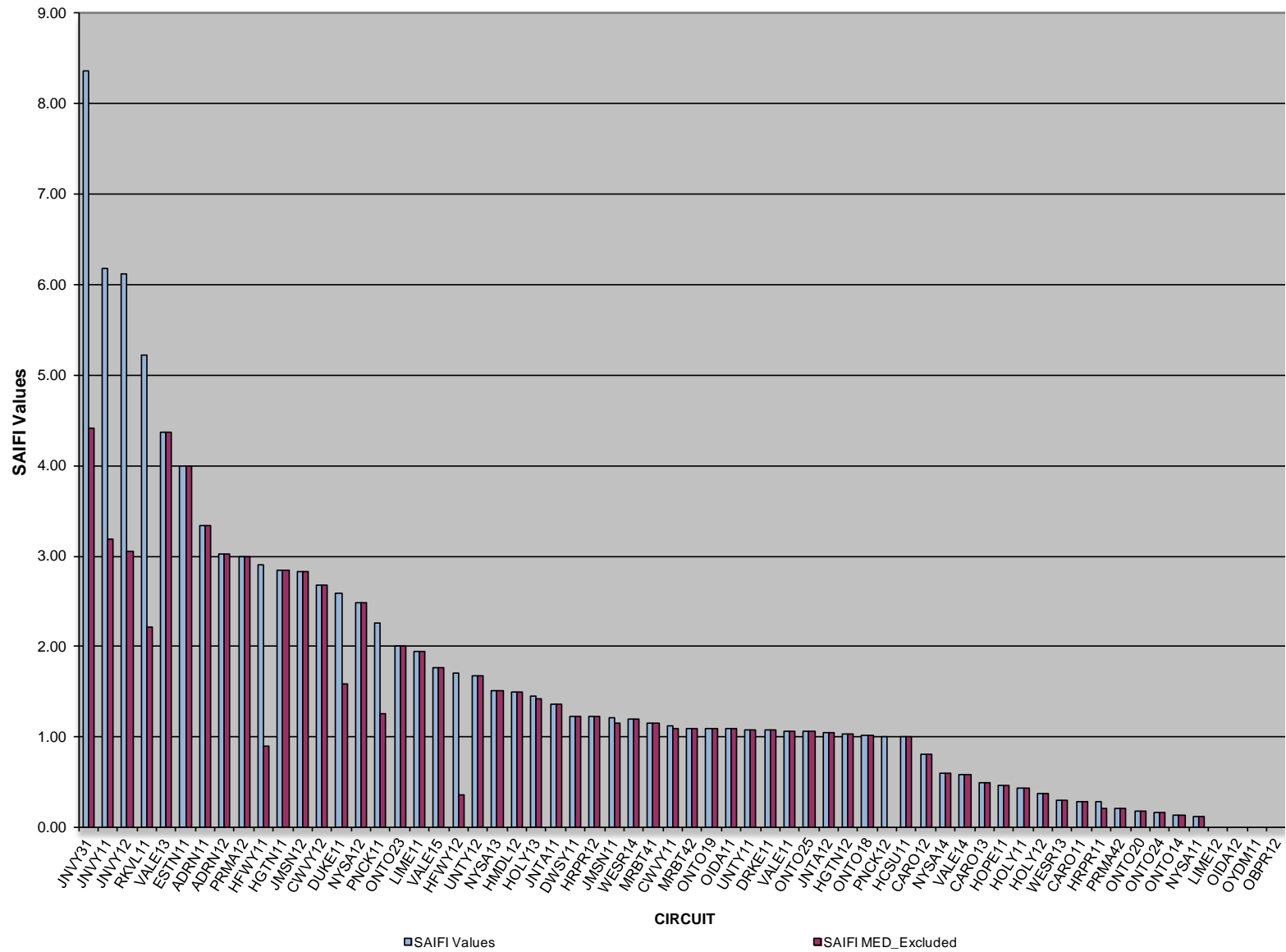


Figure 5
2012 circuit SAIFI descending values

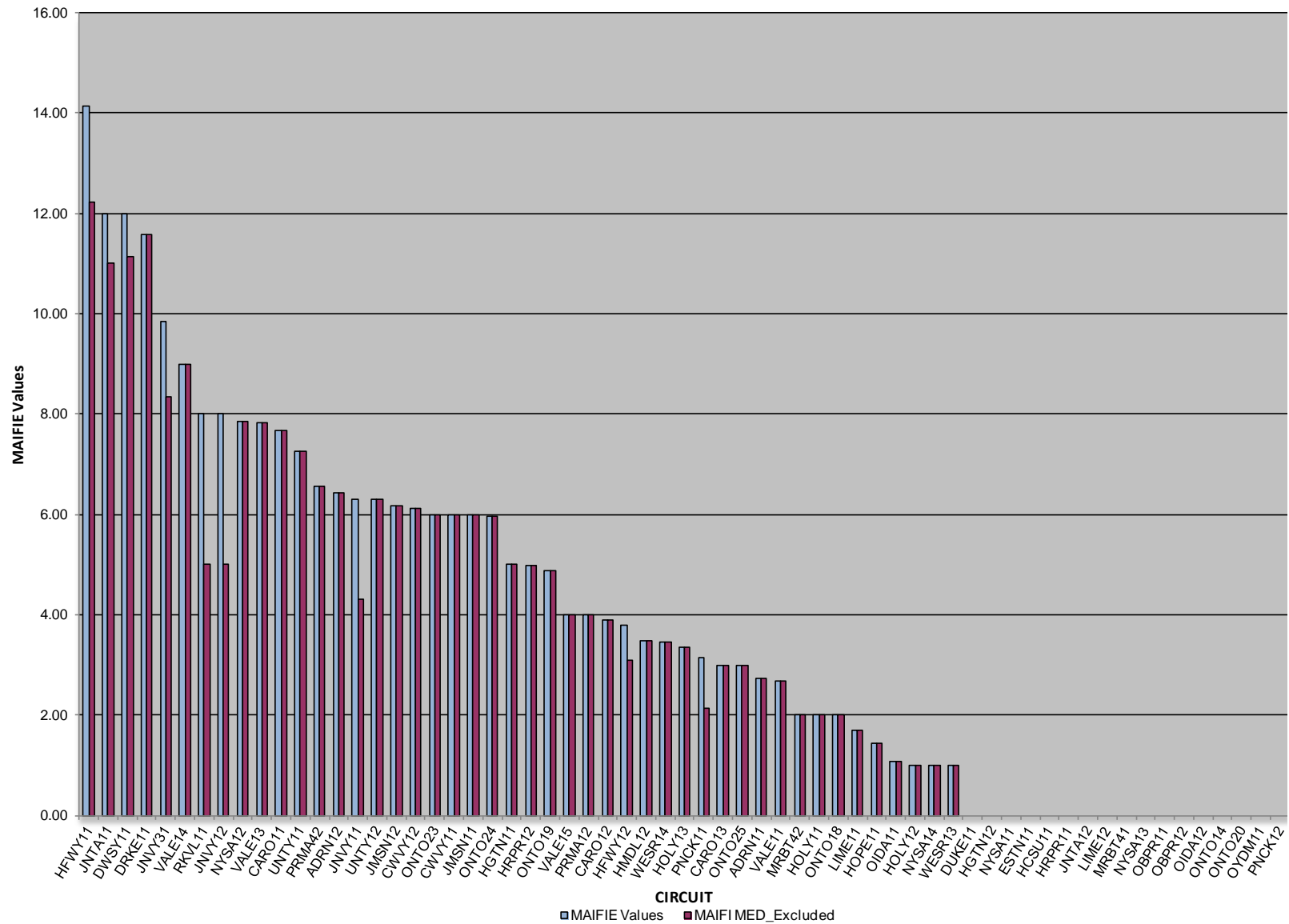
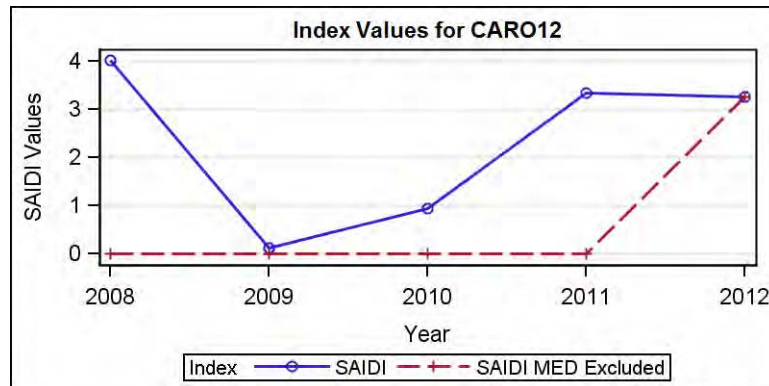
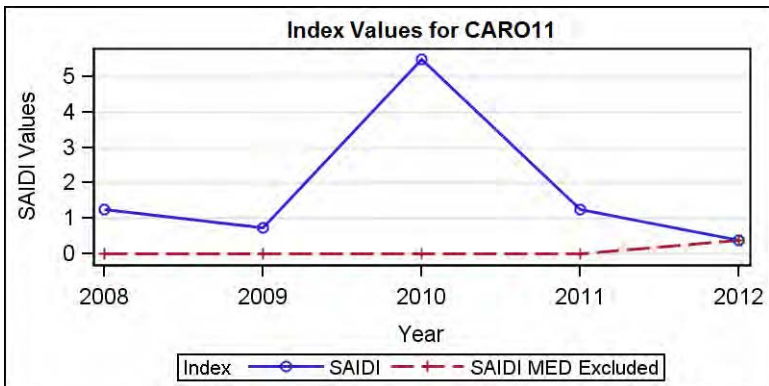
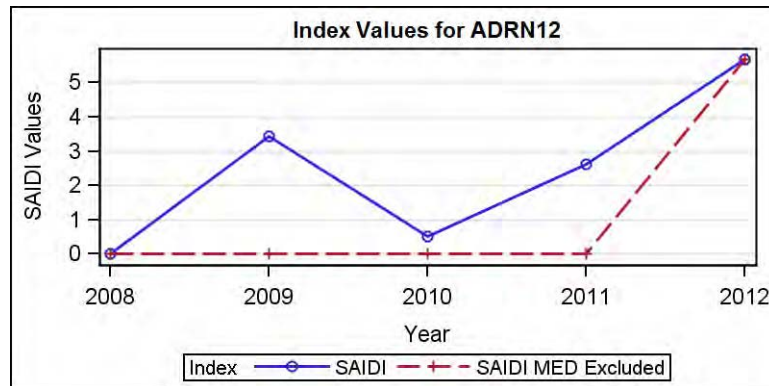
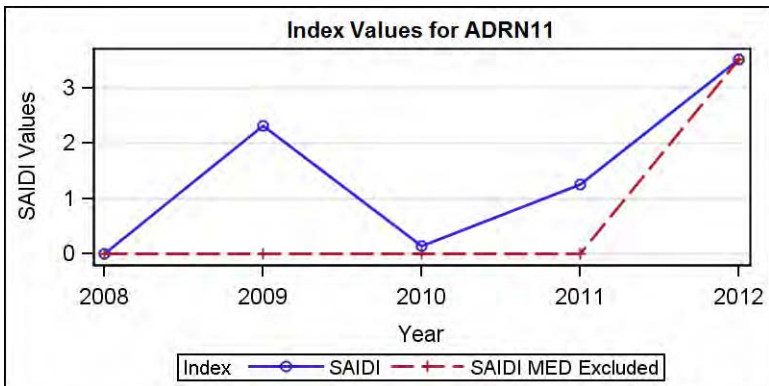
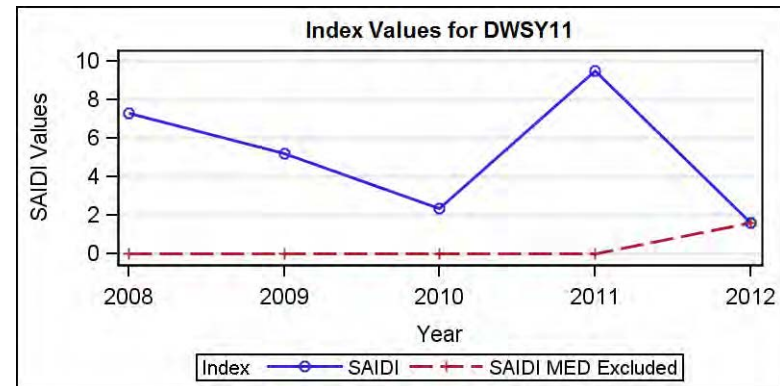
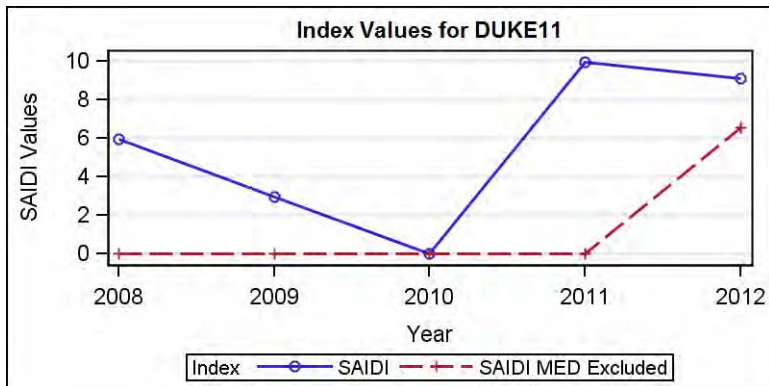
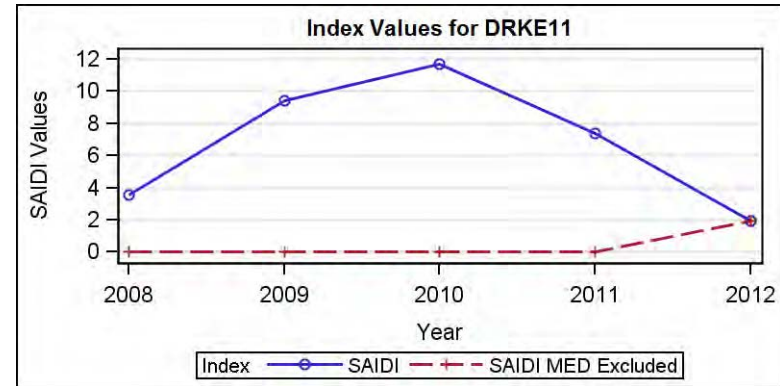
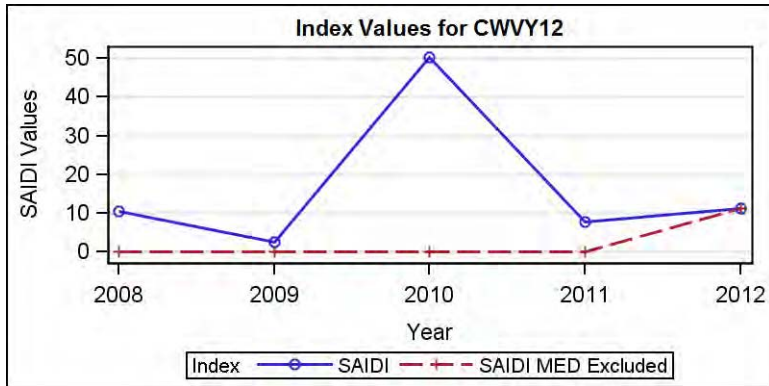
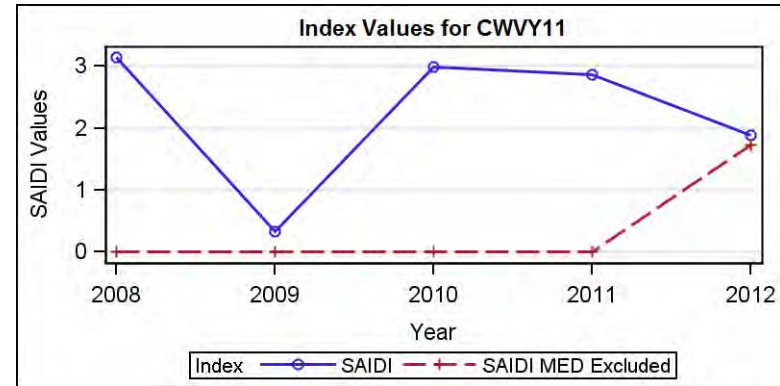
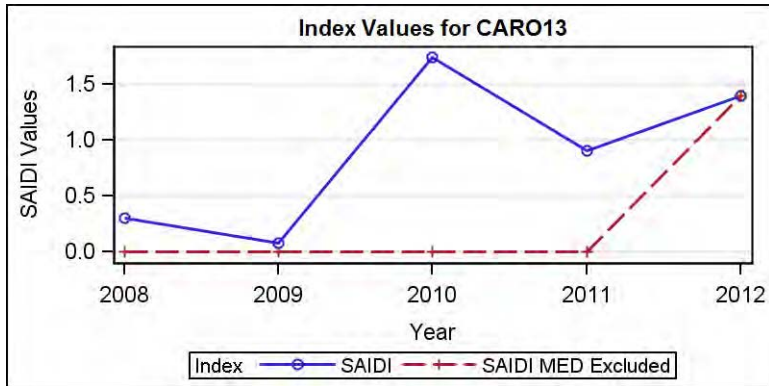
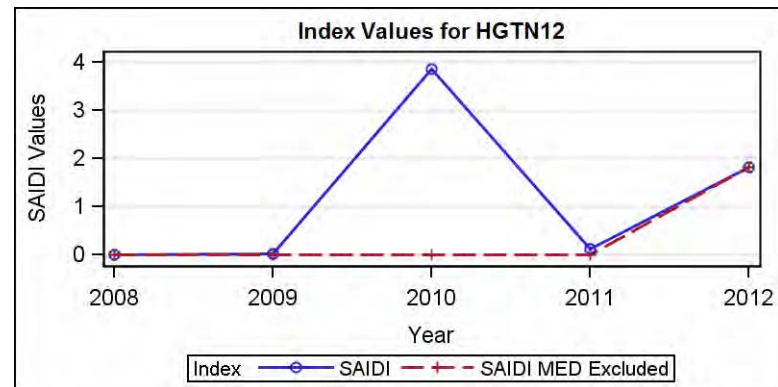
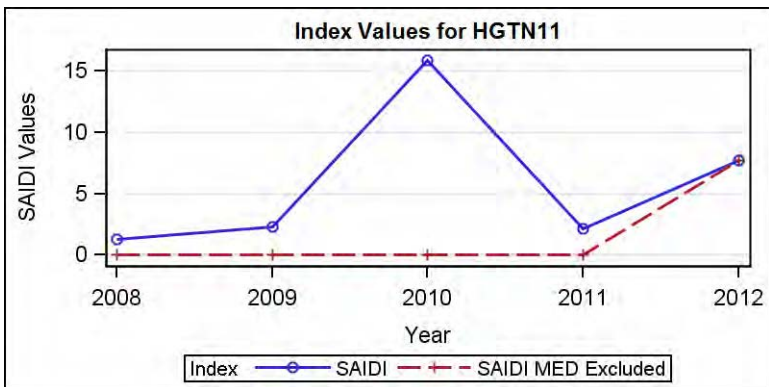
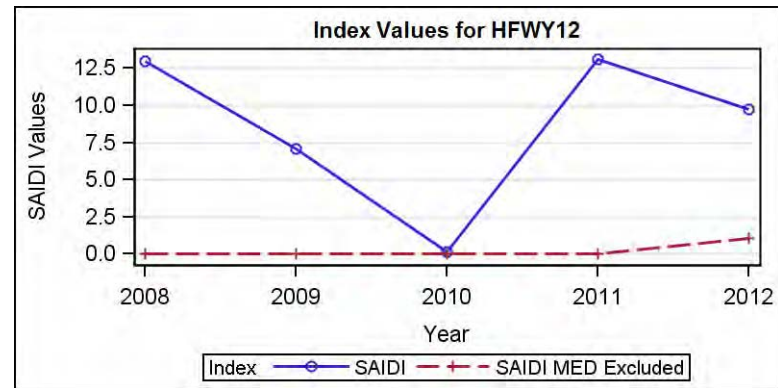
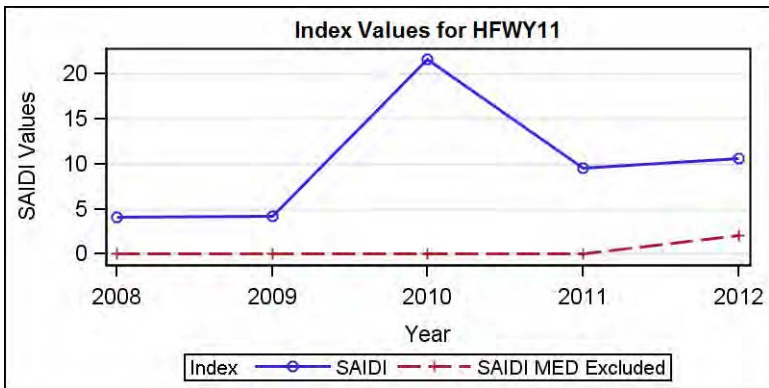
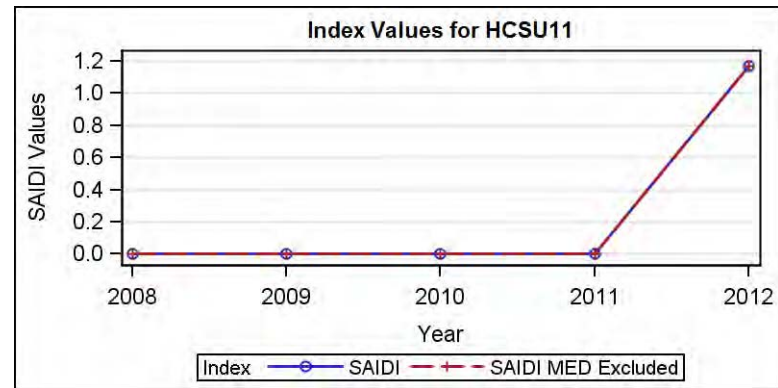
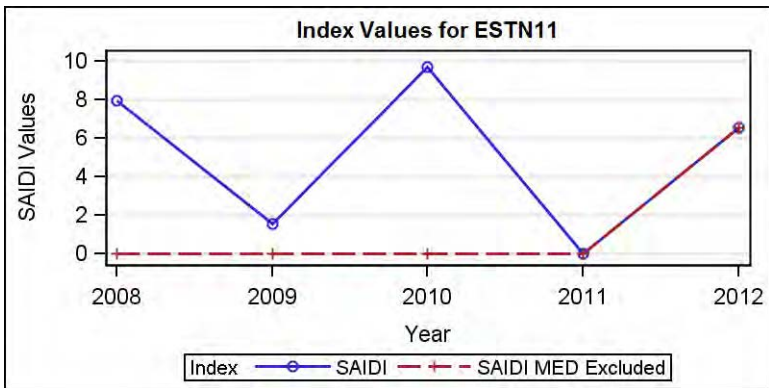


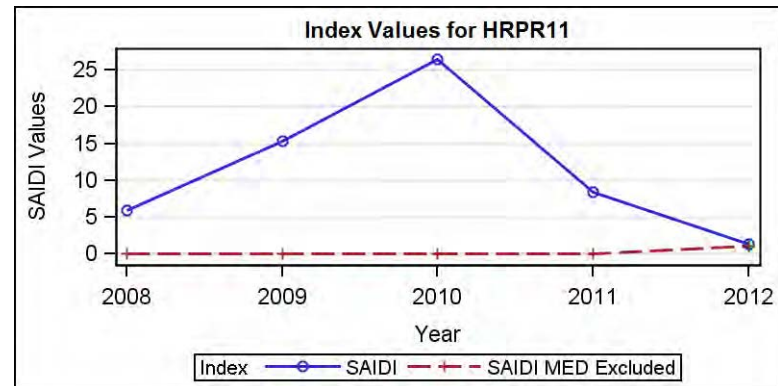
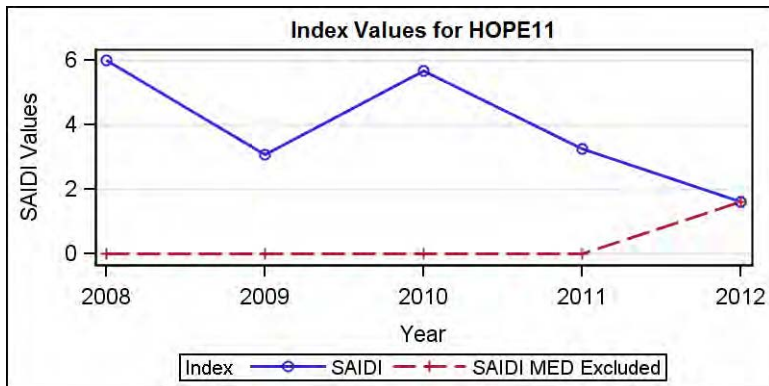
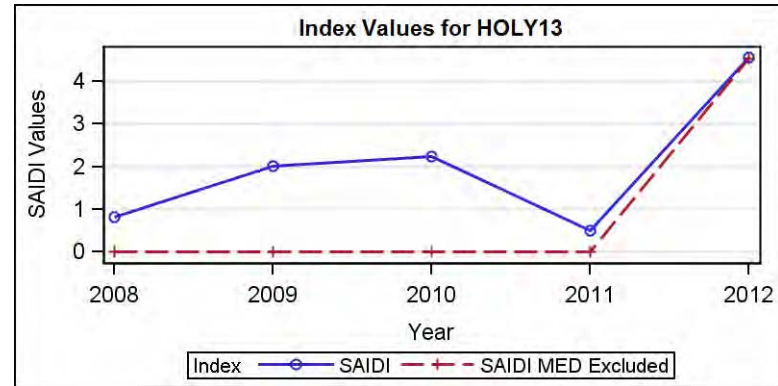
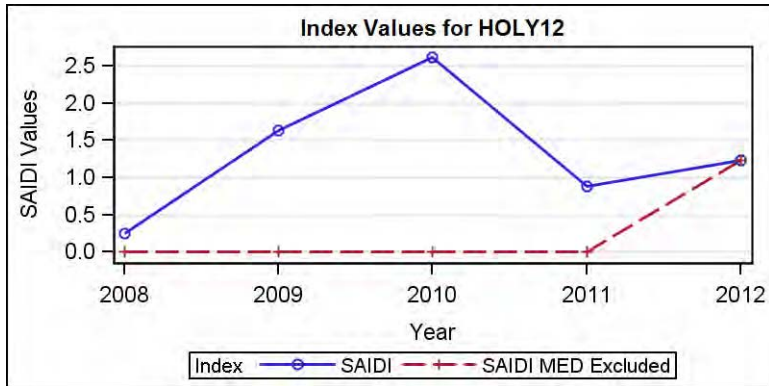
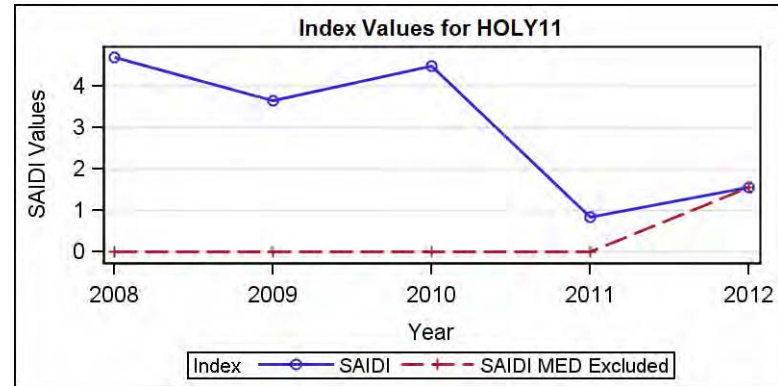
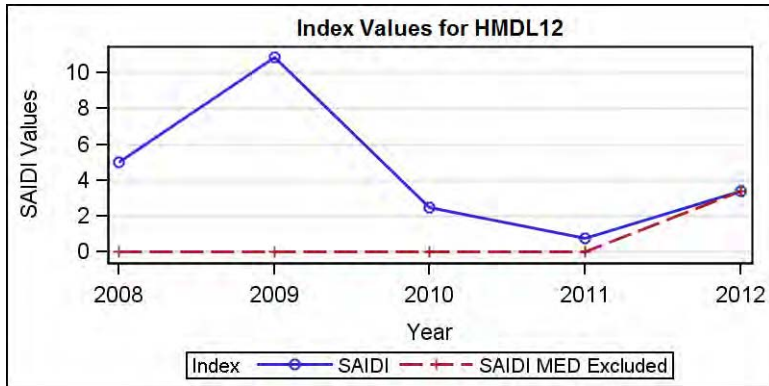
Figure 6
2012 circuit MAIFI_E descending values

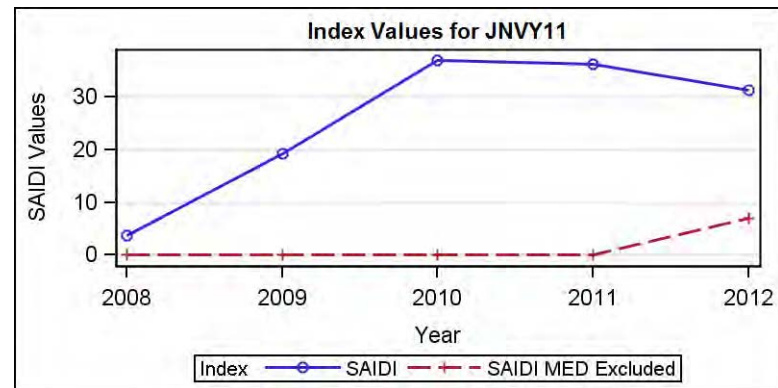
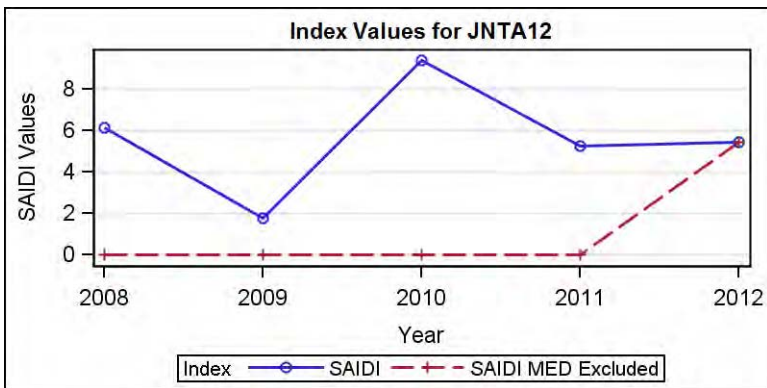
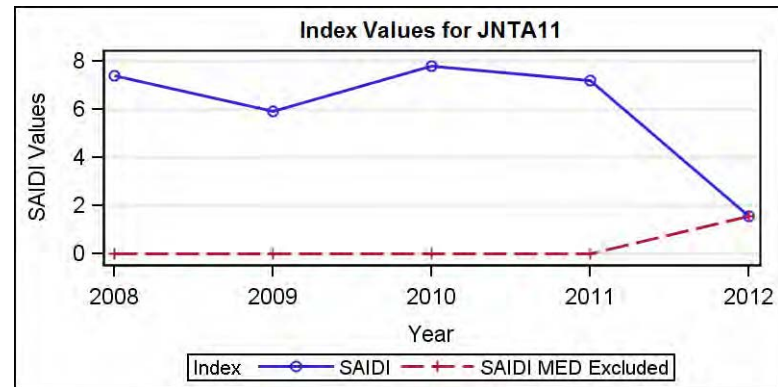
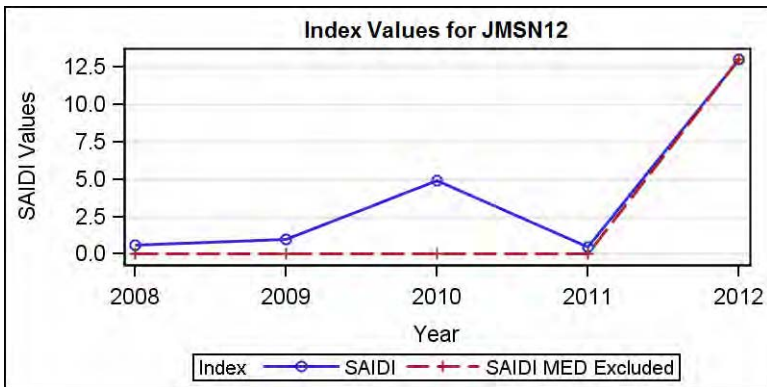
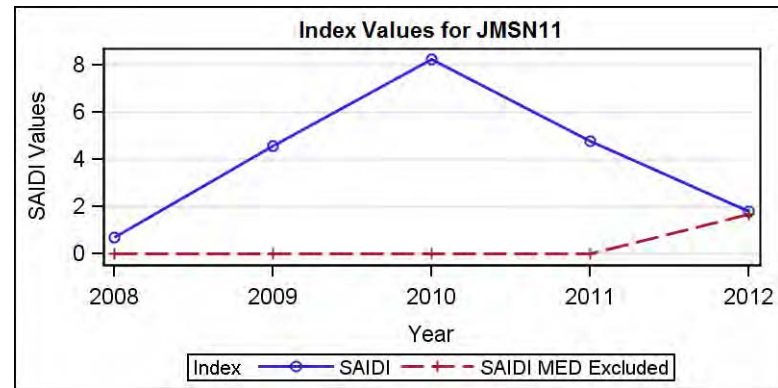
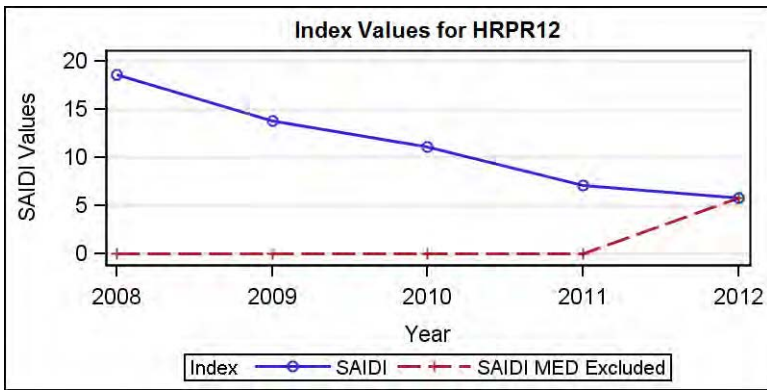
Circuit SAIDI Values

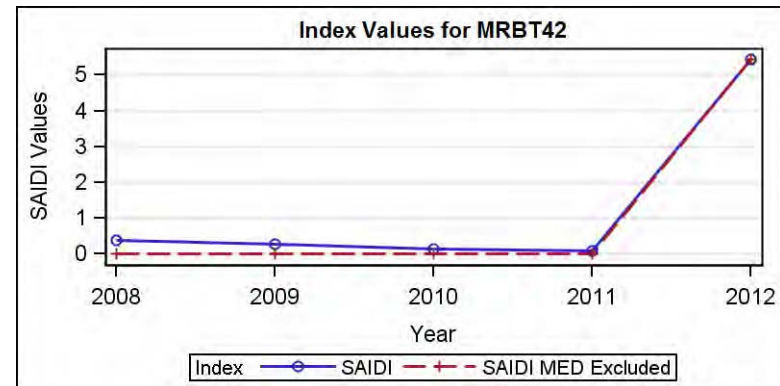
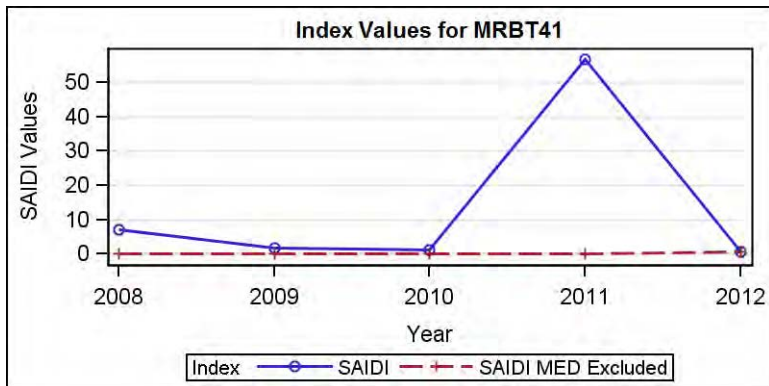
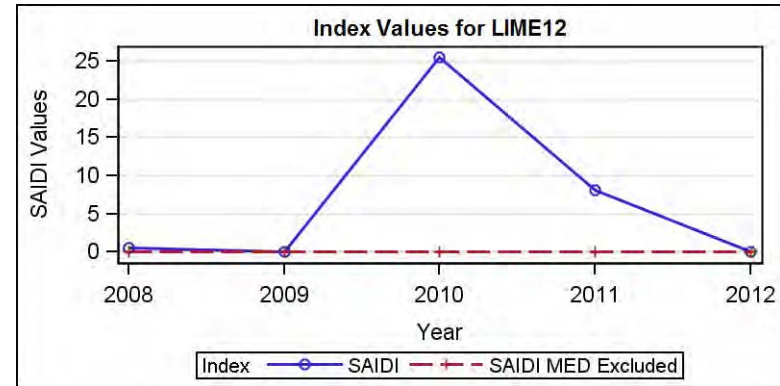
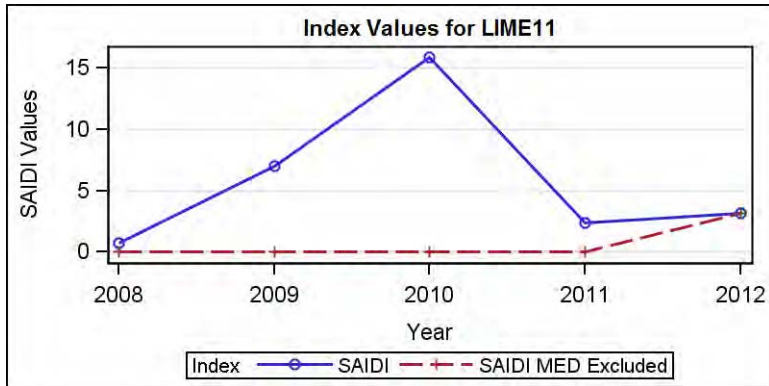
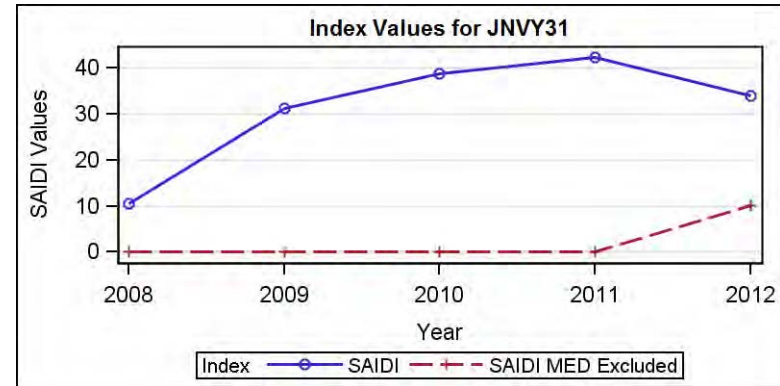
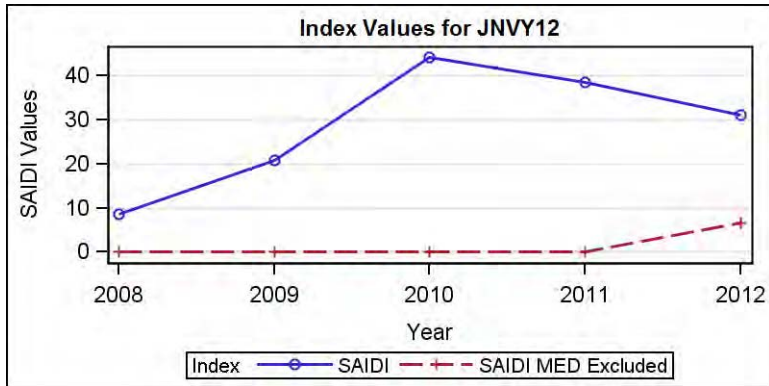


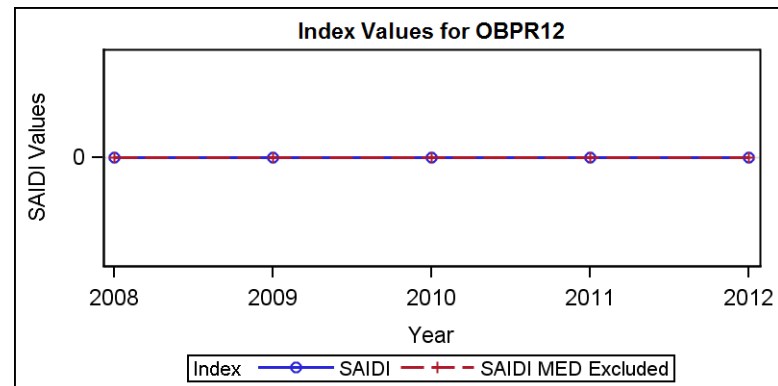
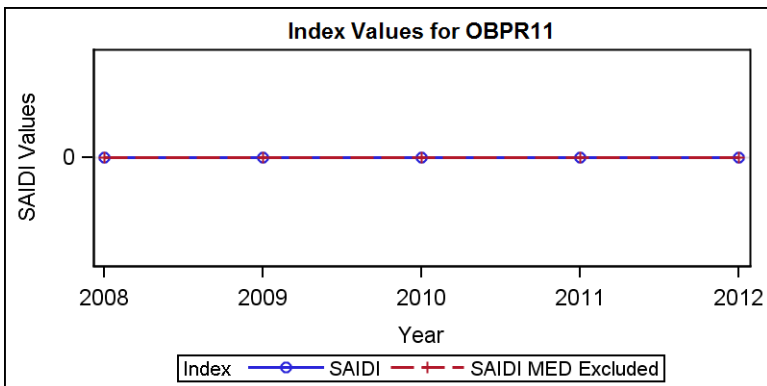
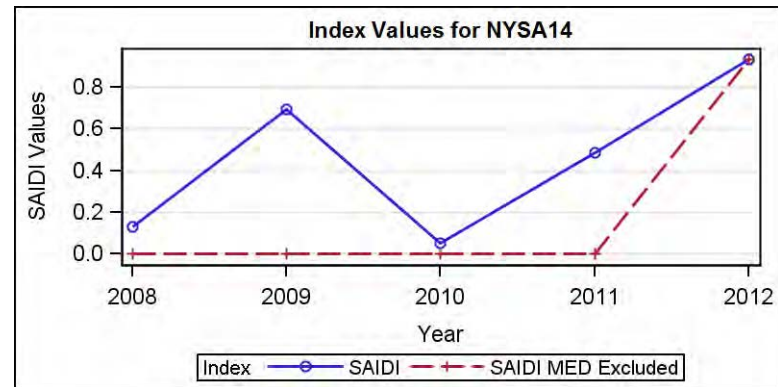
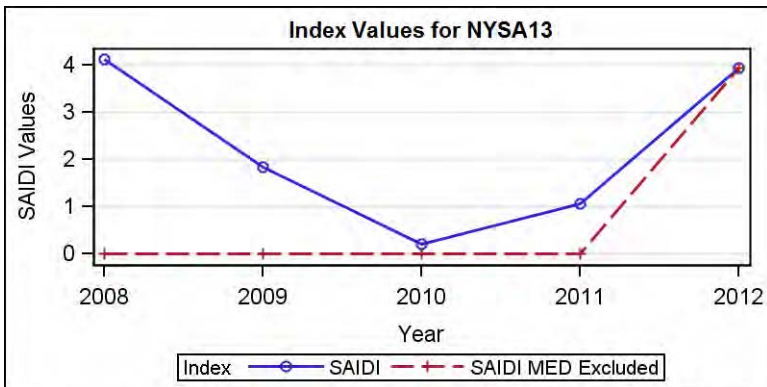
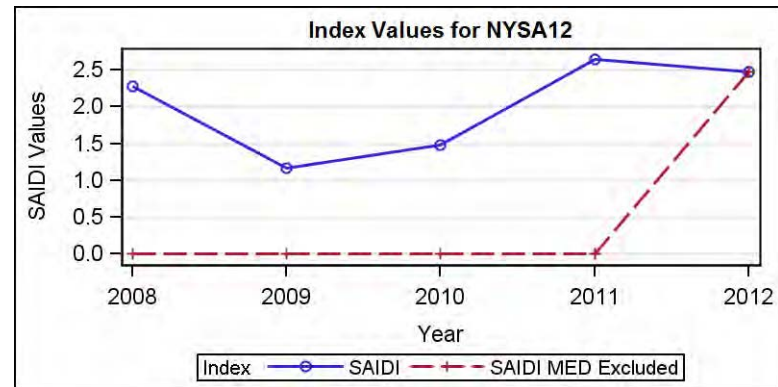
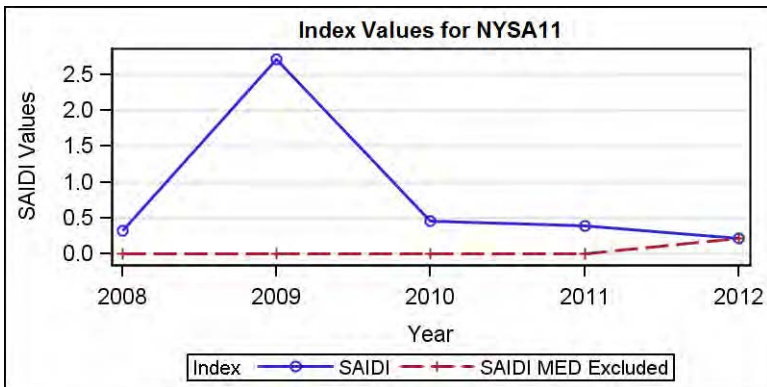


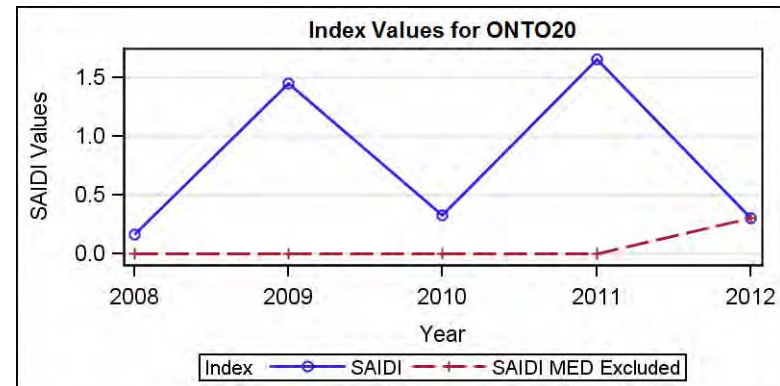
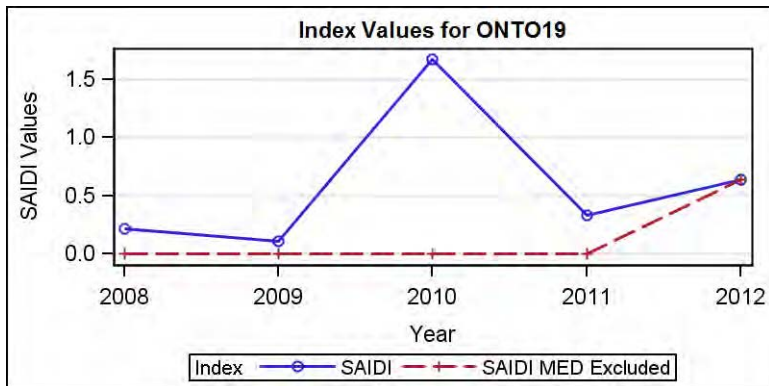
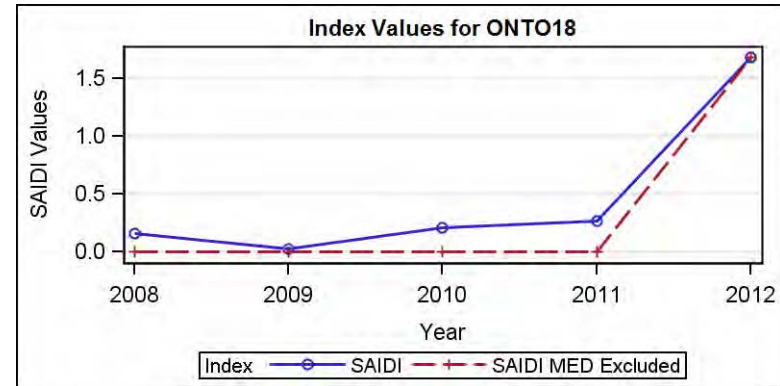
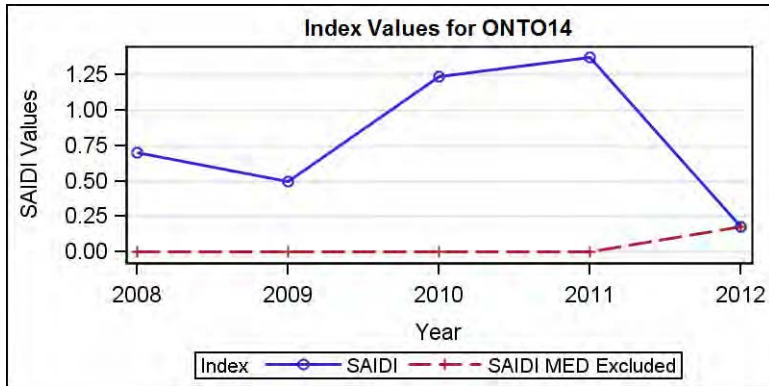
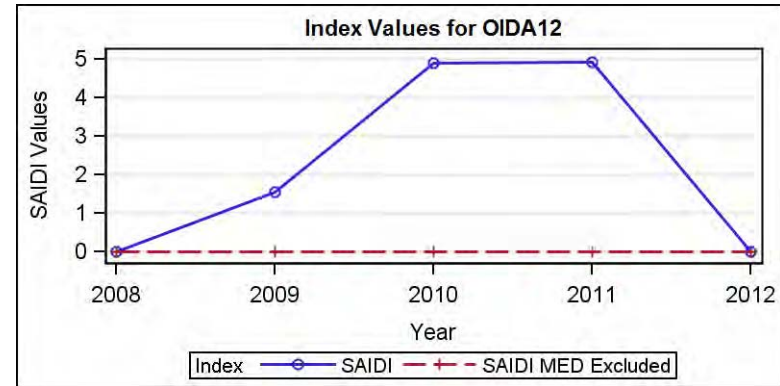
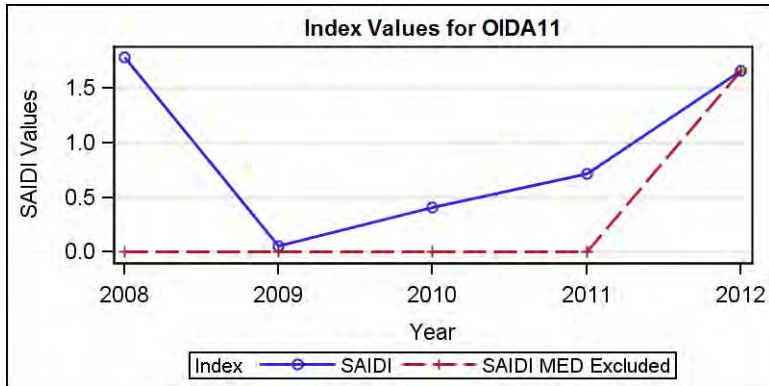


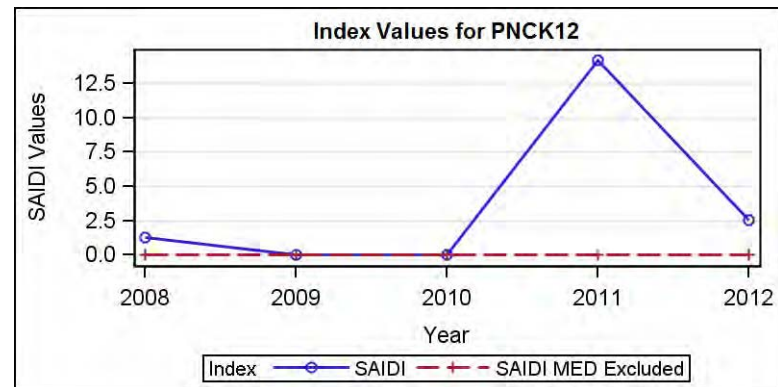
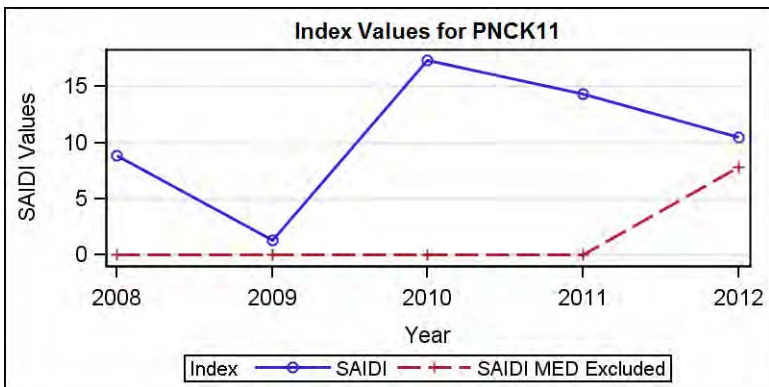
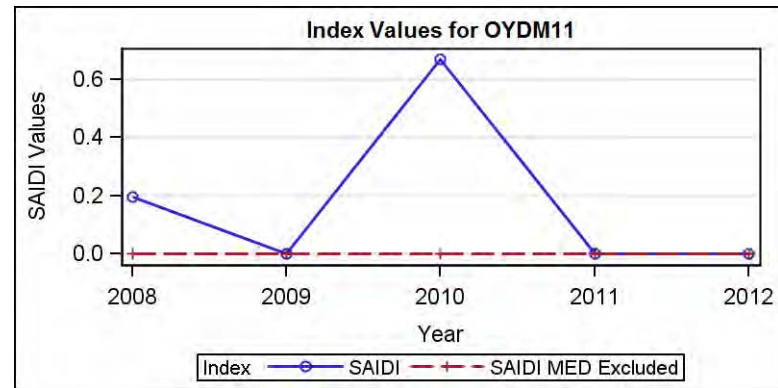
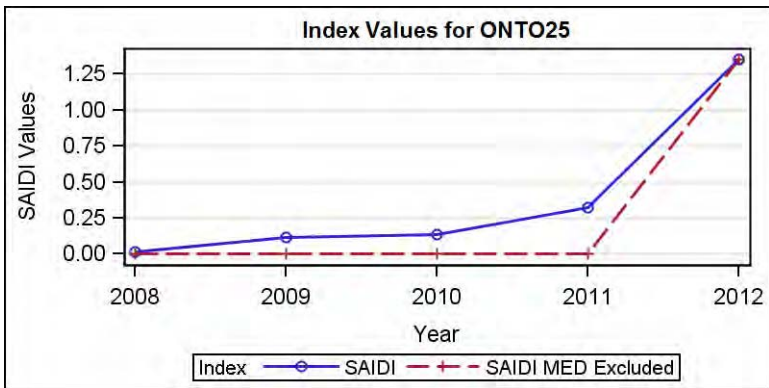
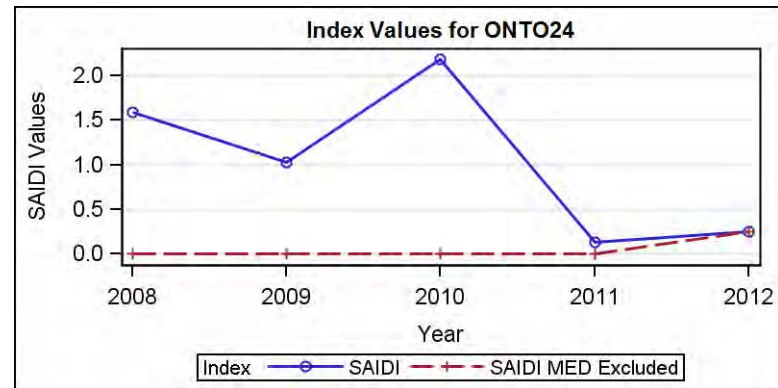
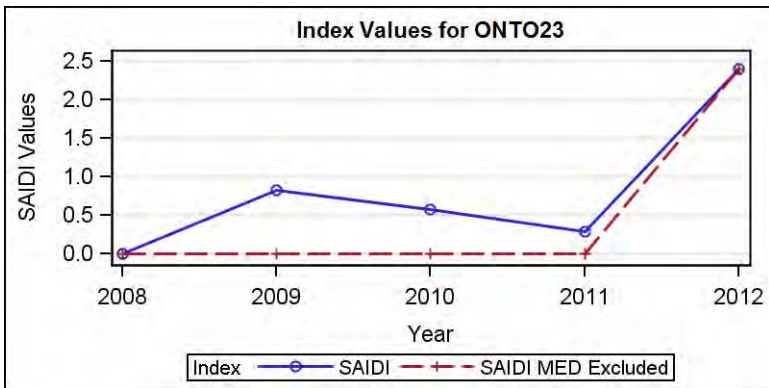


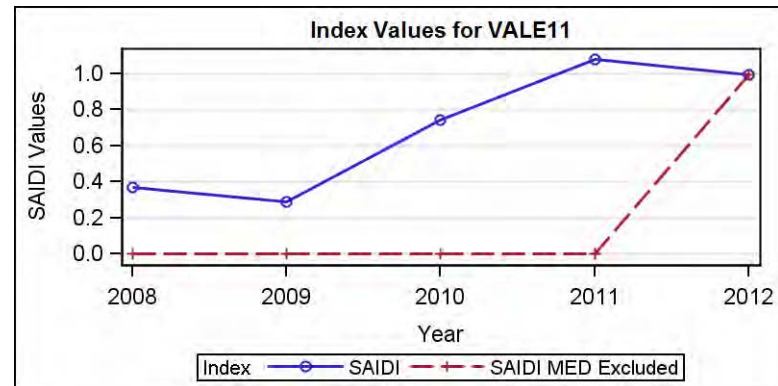
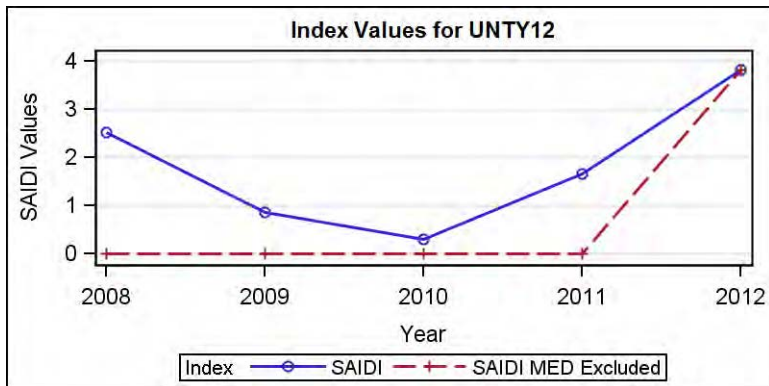
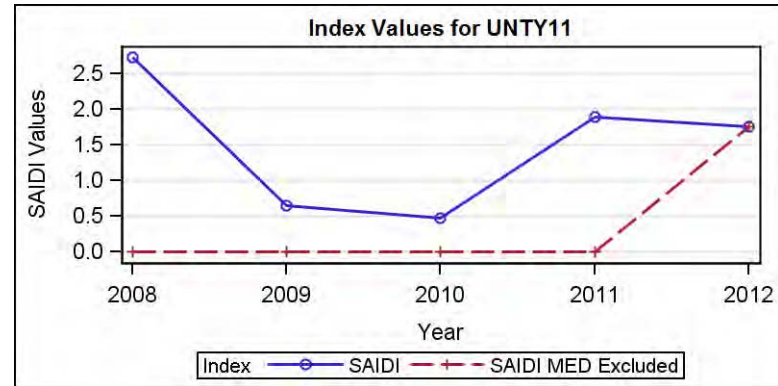
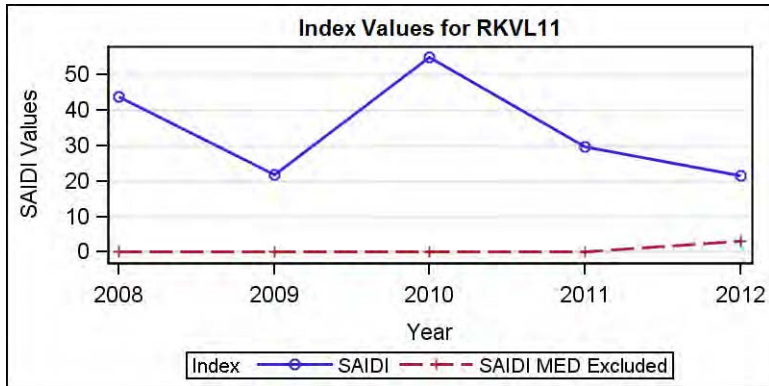
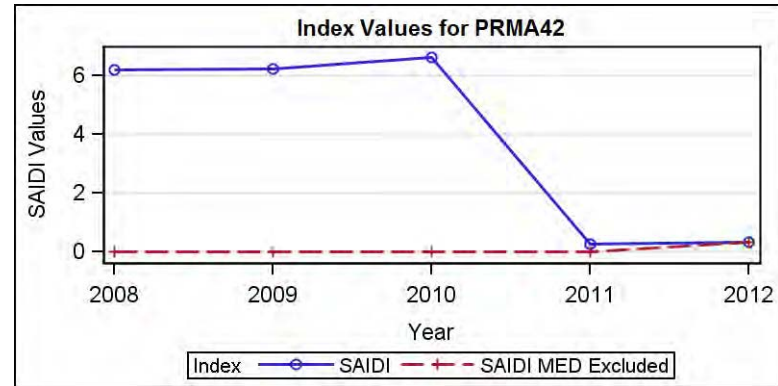
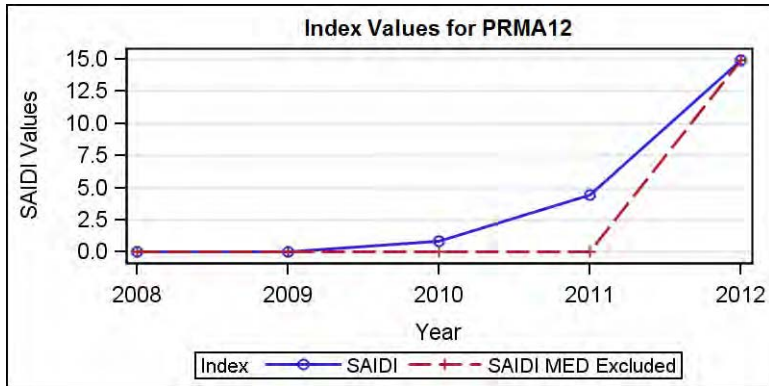


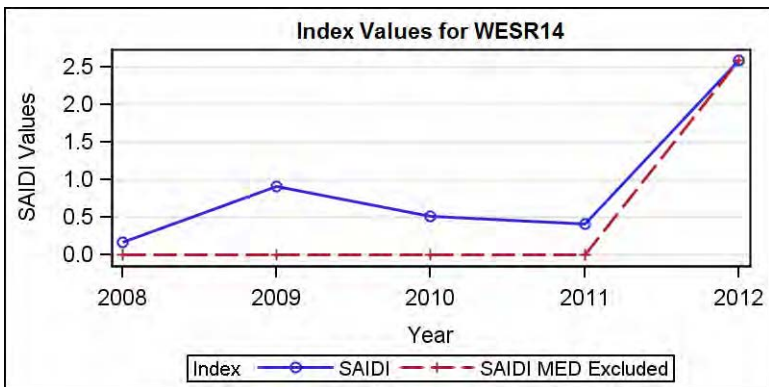
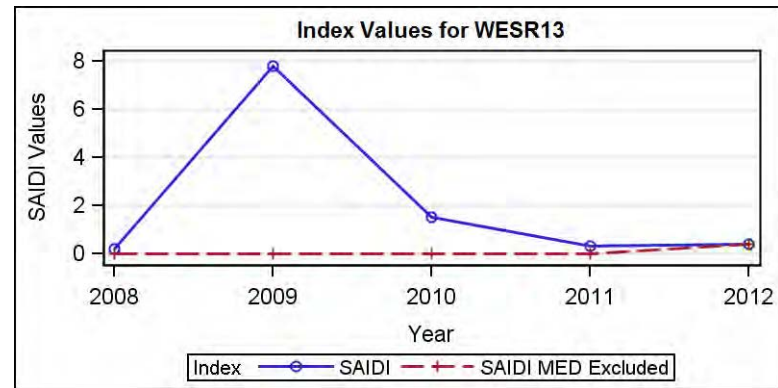
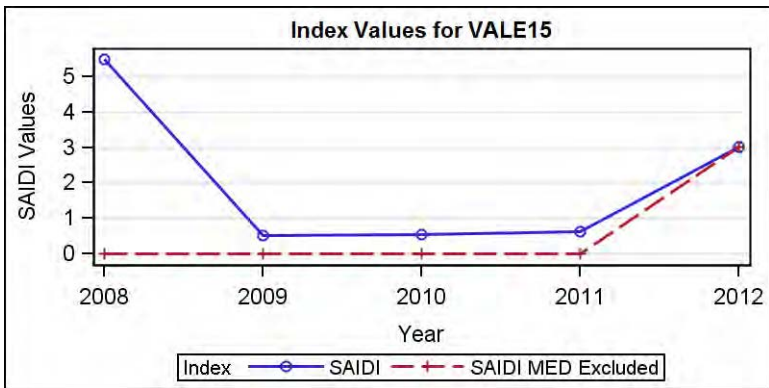
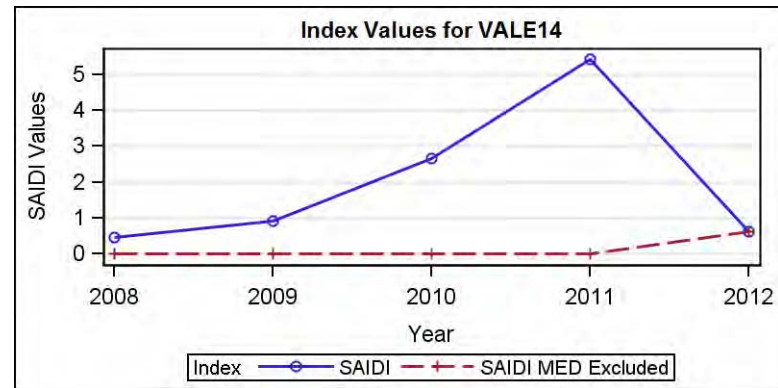
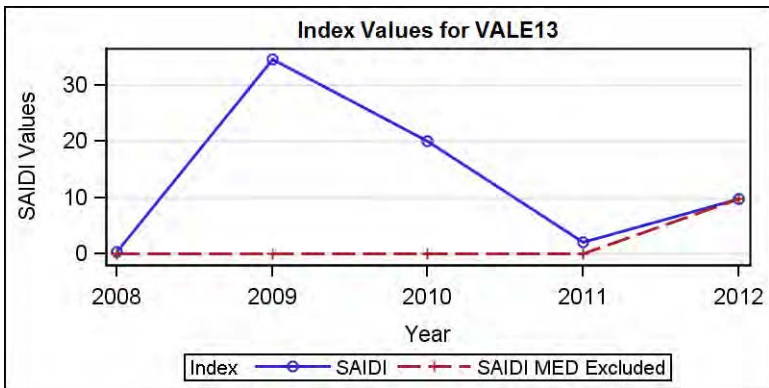




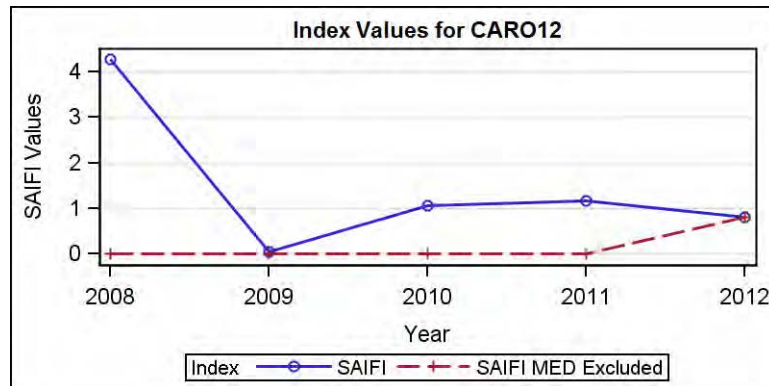
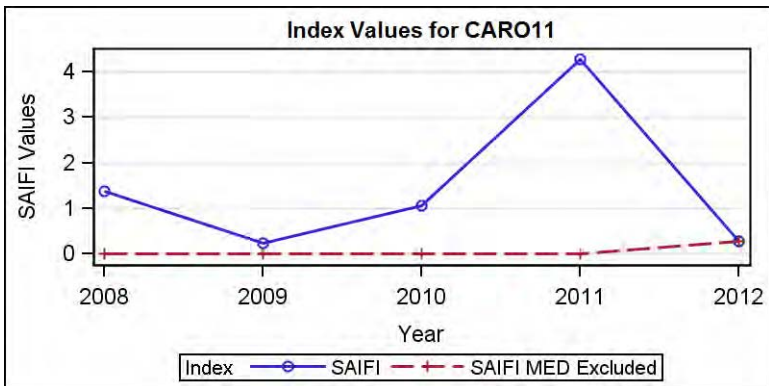
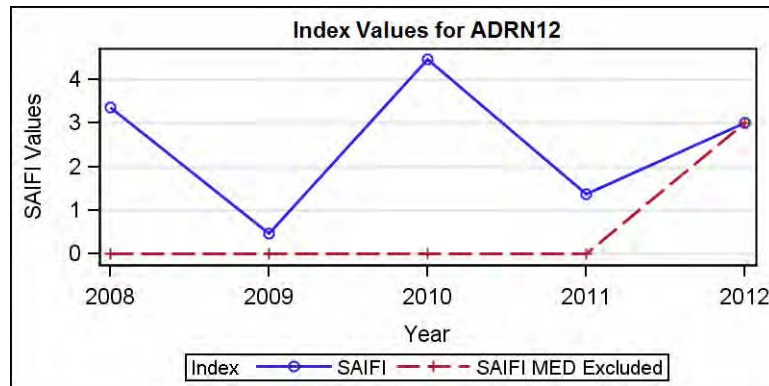
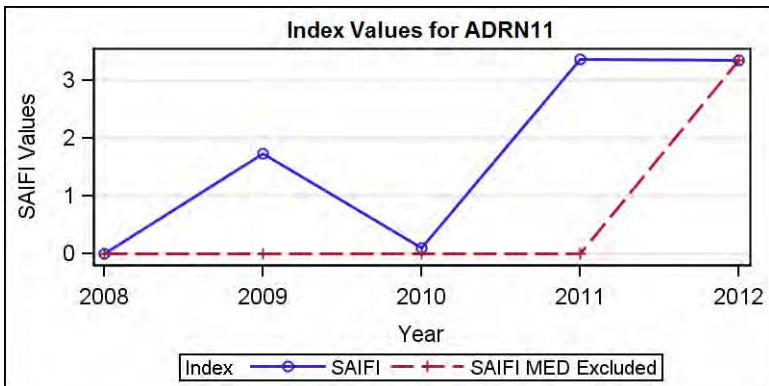


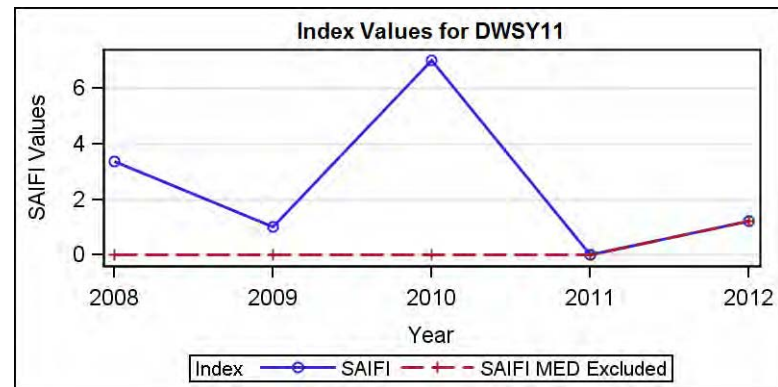
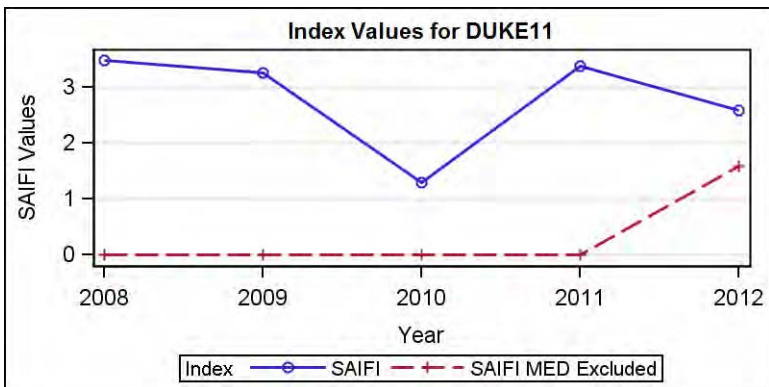
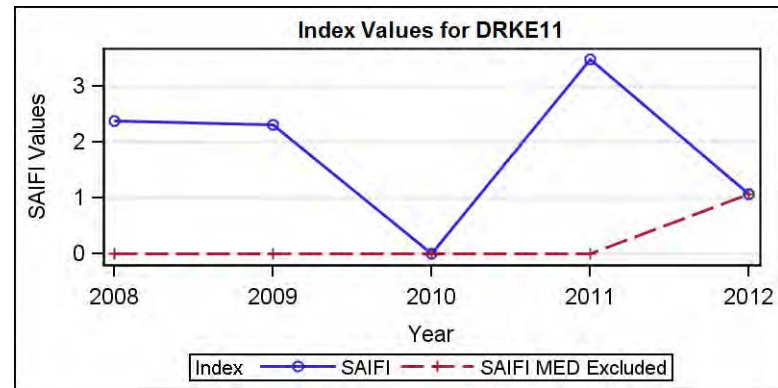
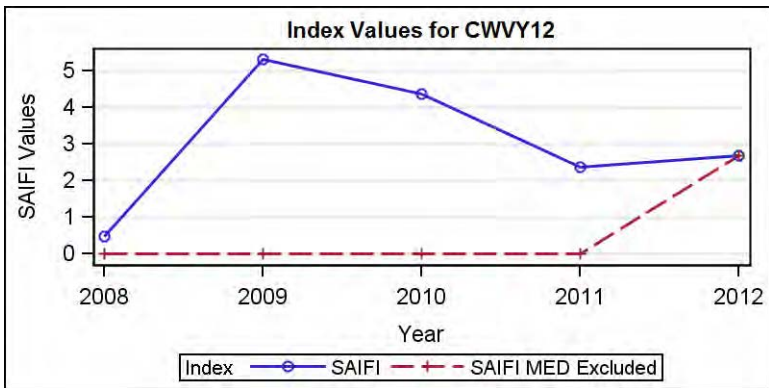
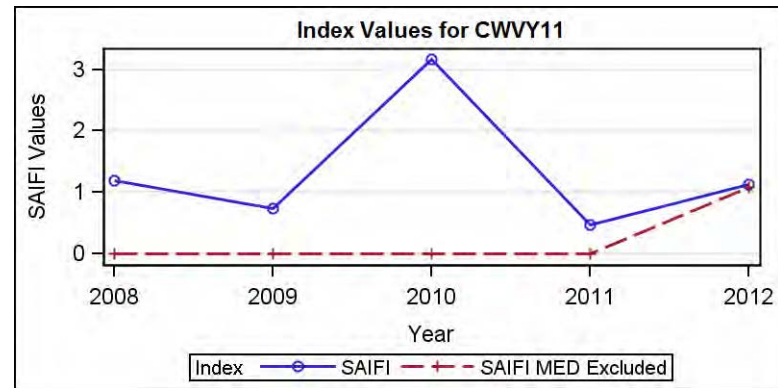
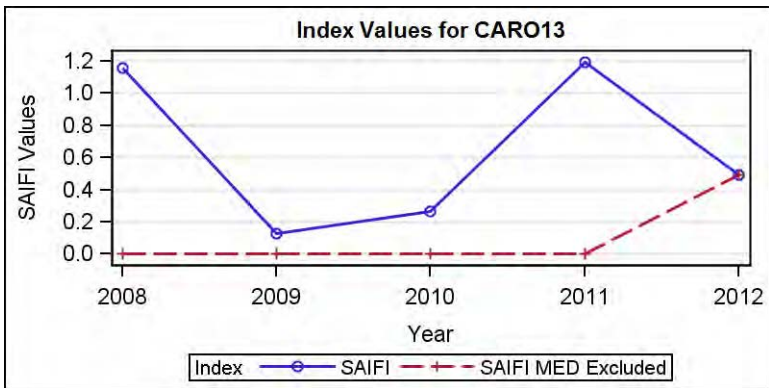


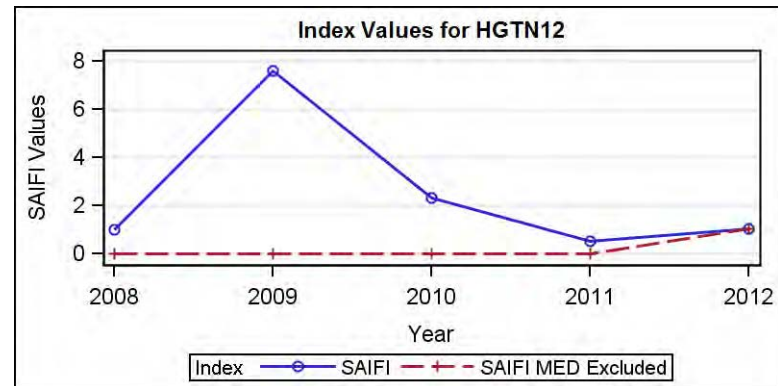
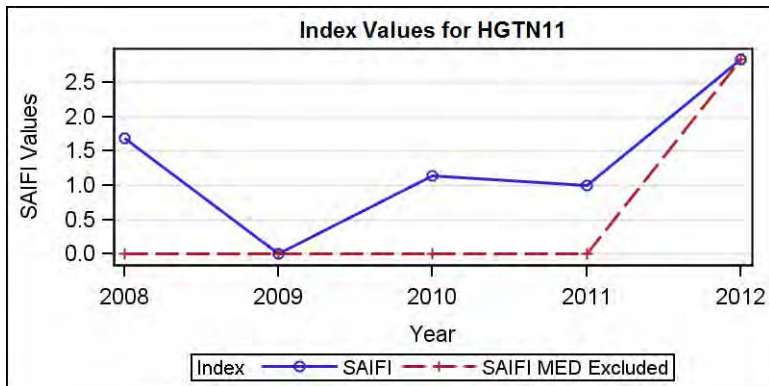
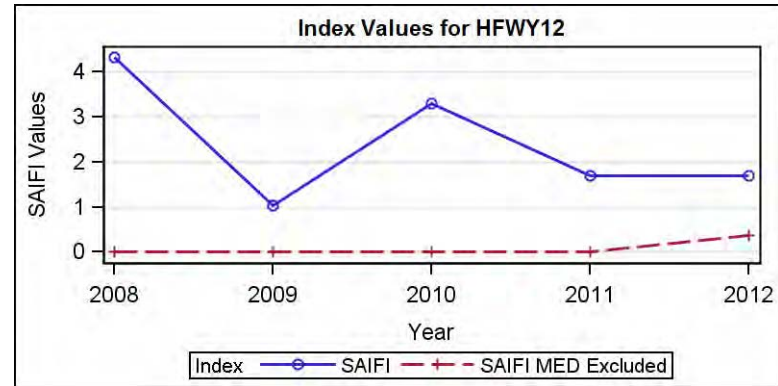
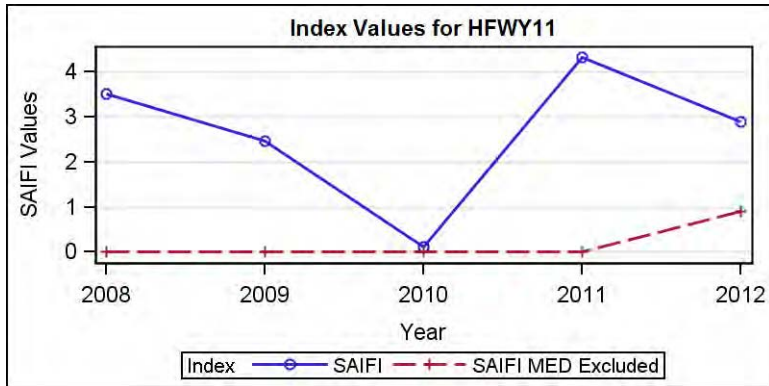
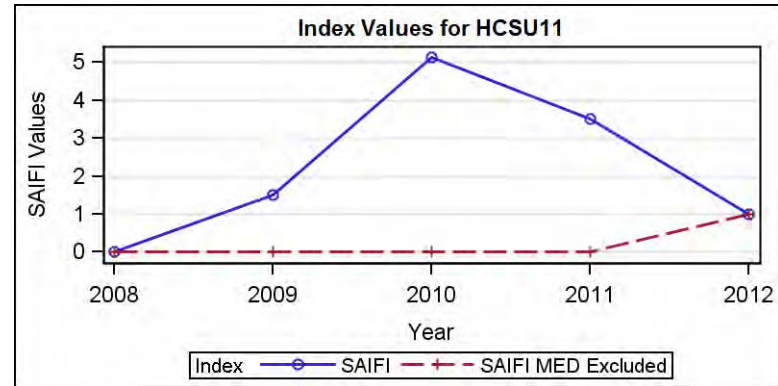
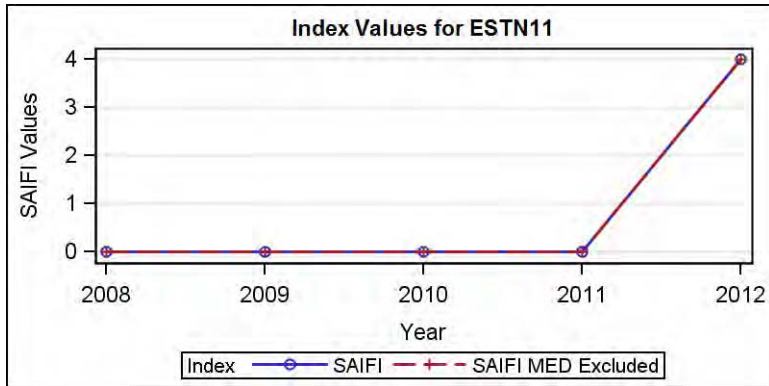


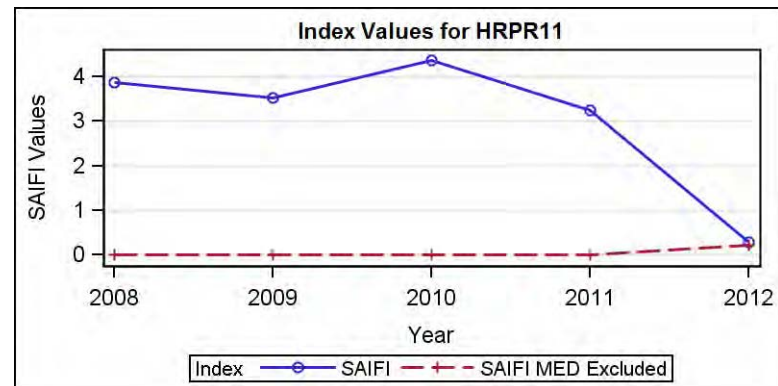
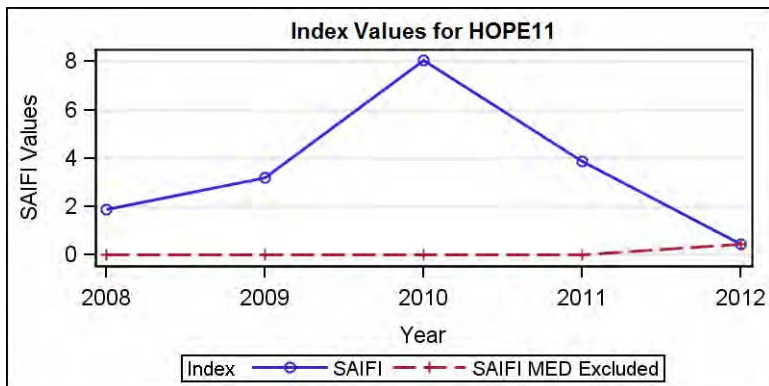
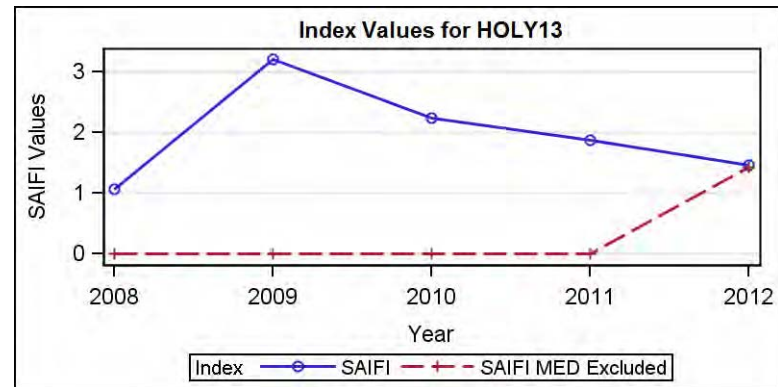
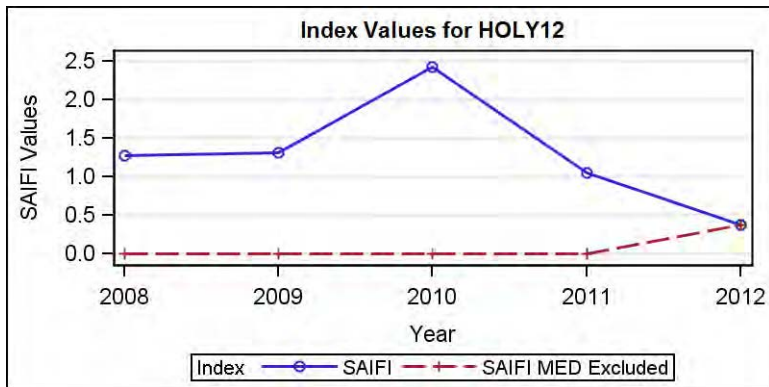
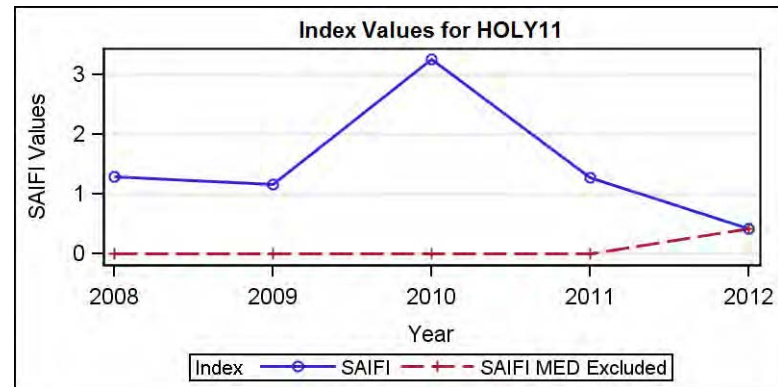
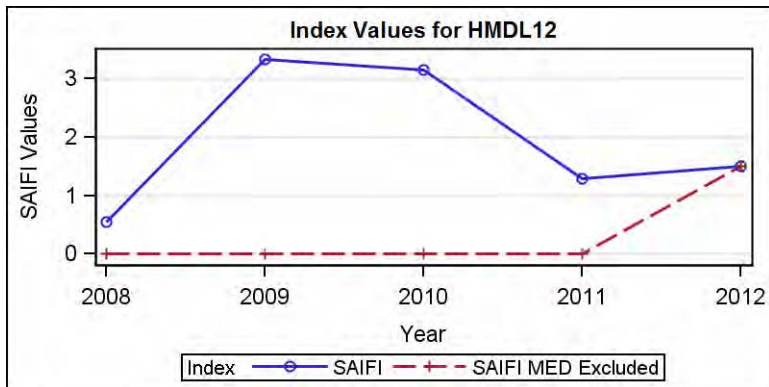


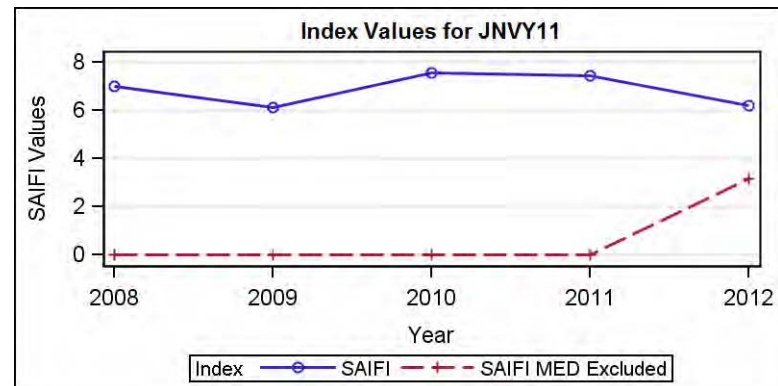
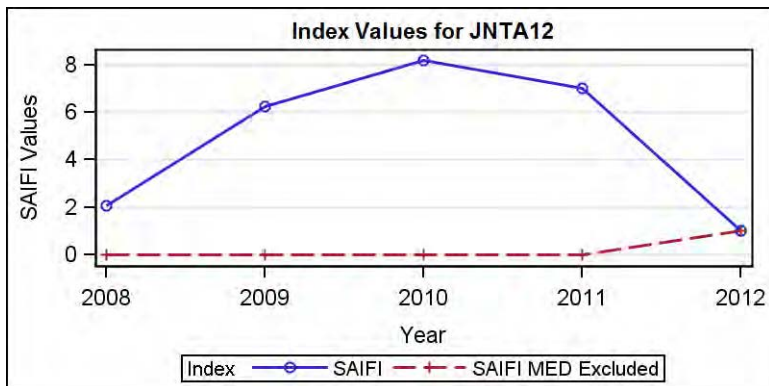
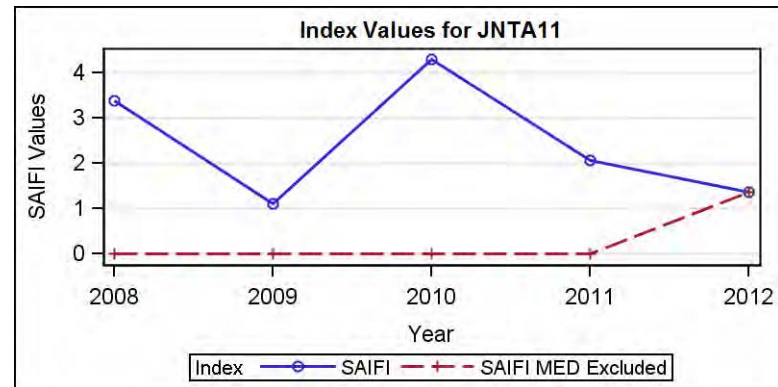
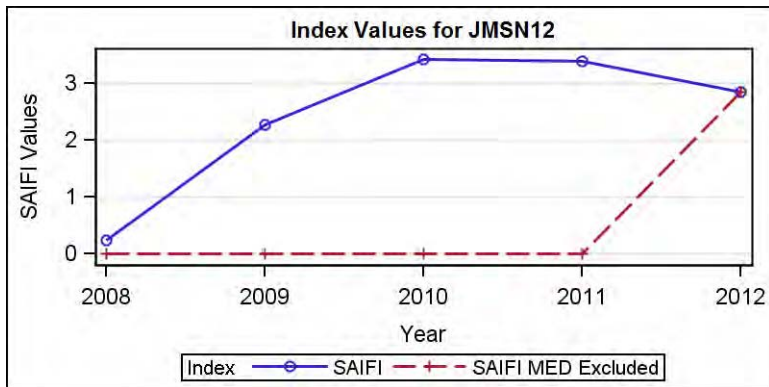
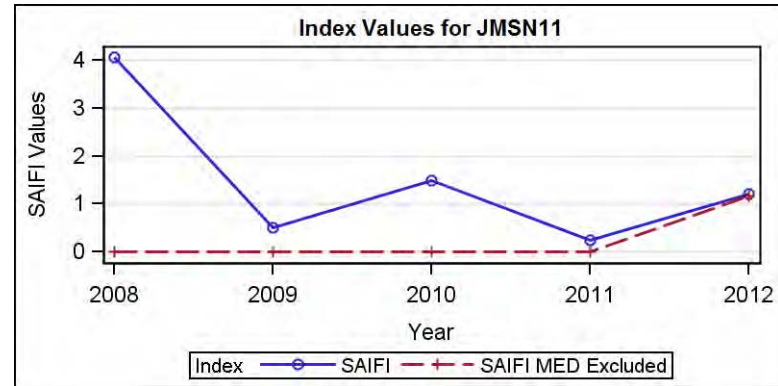
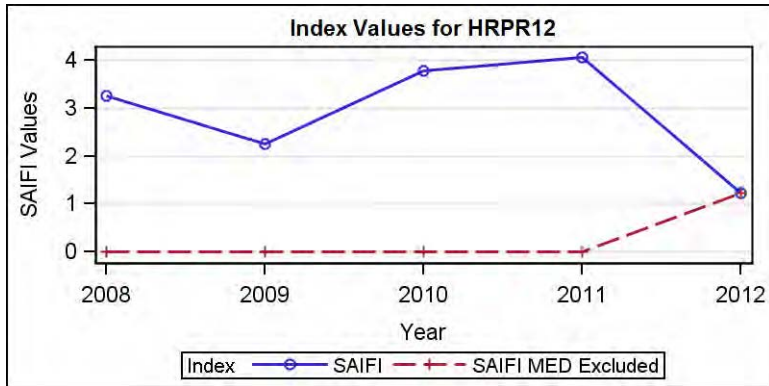
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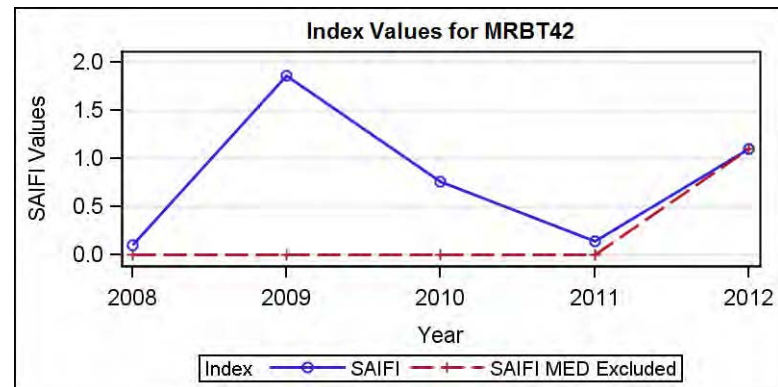
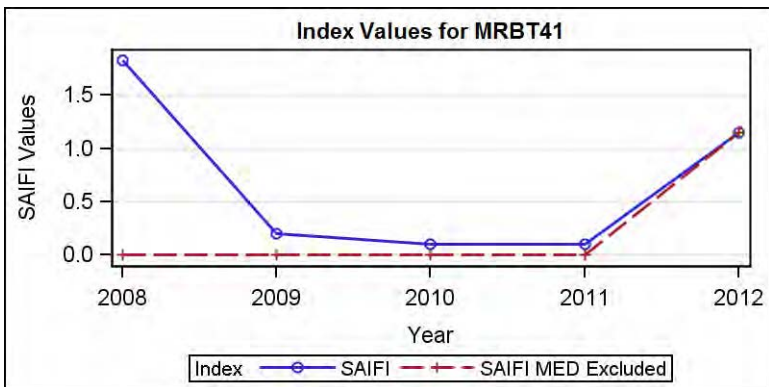
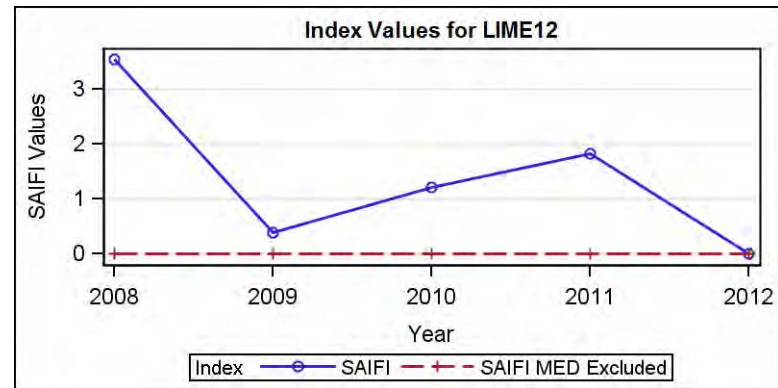
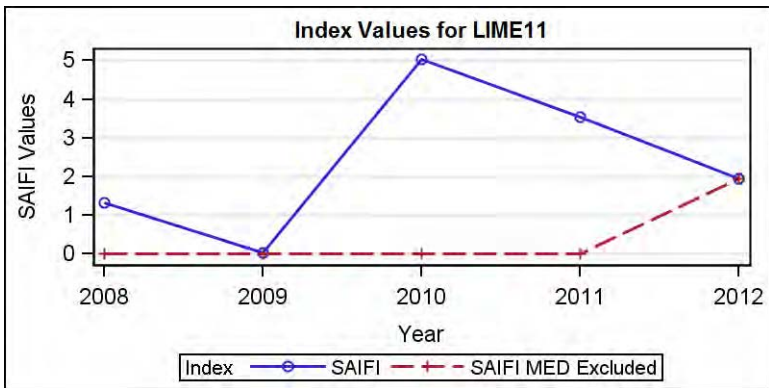
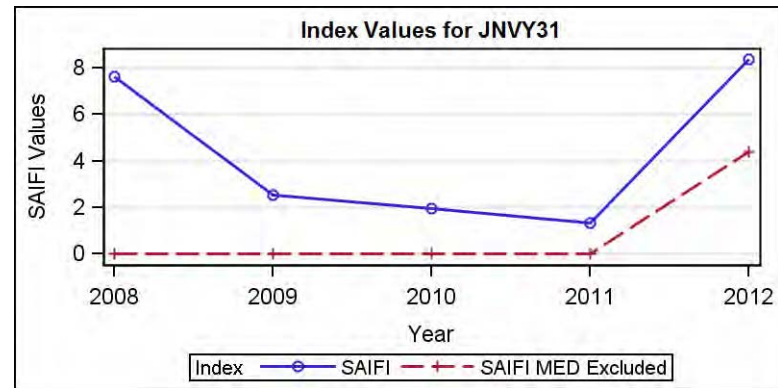
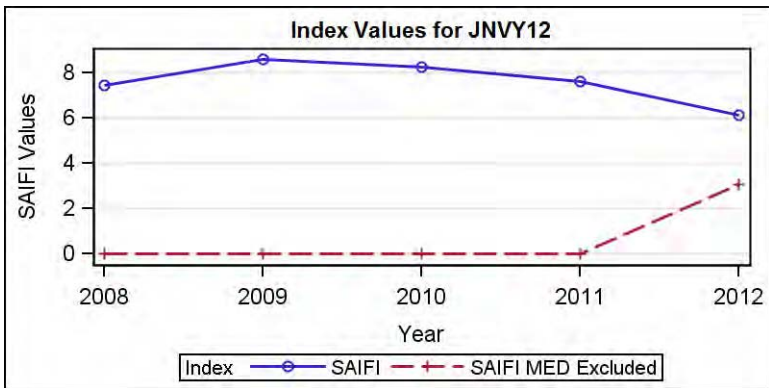


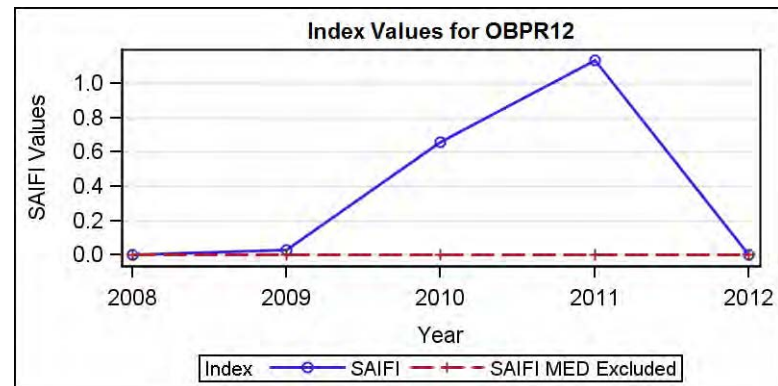
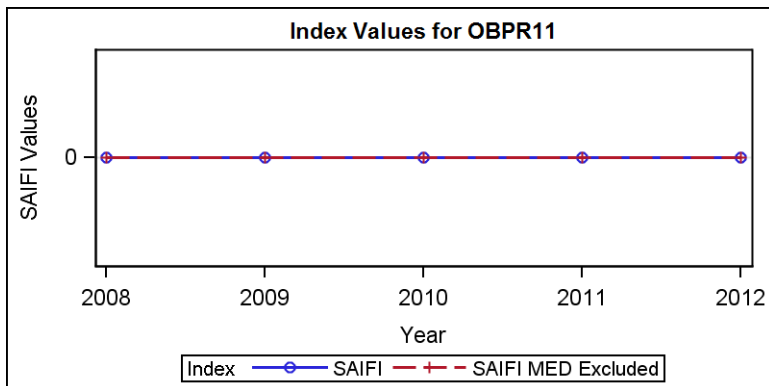
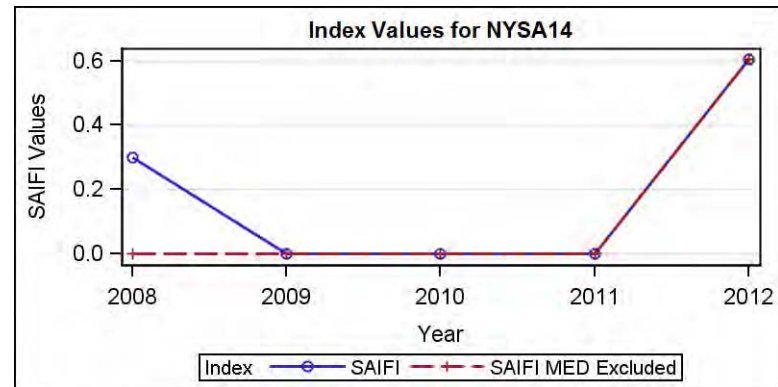
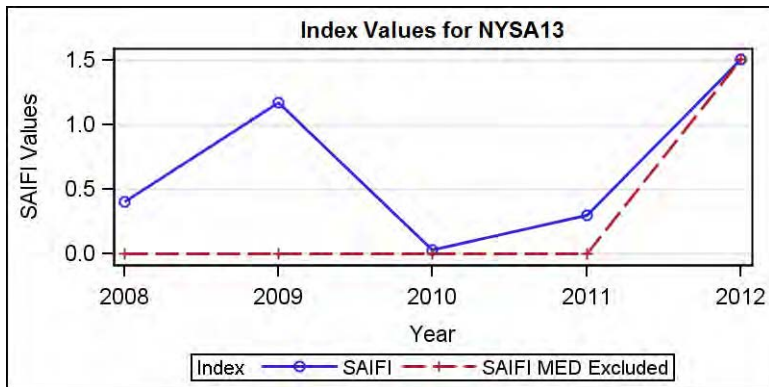
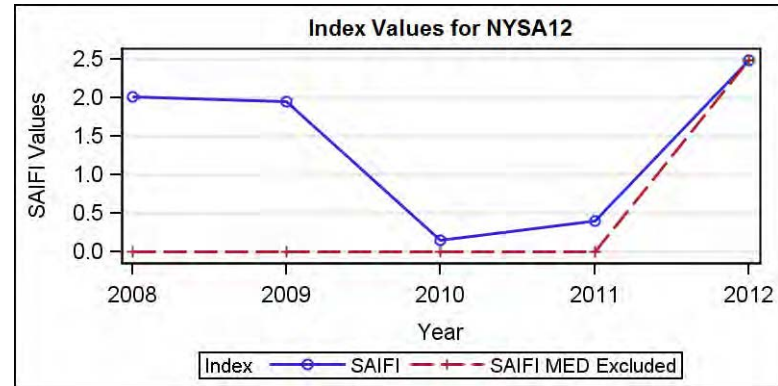
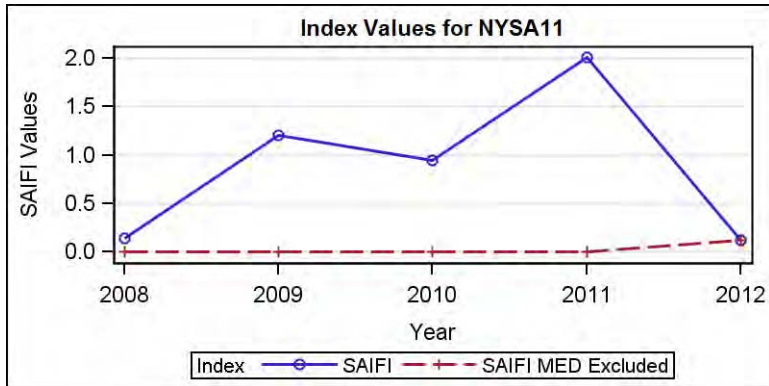


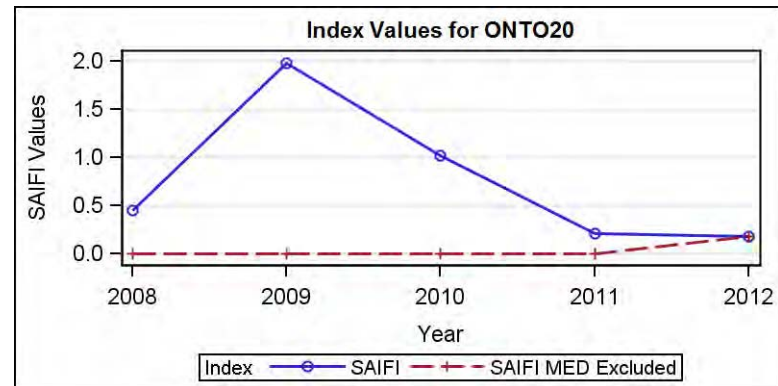
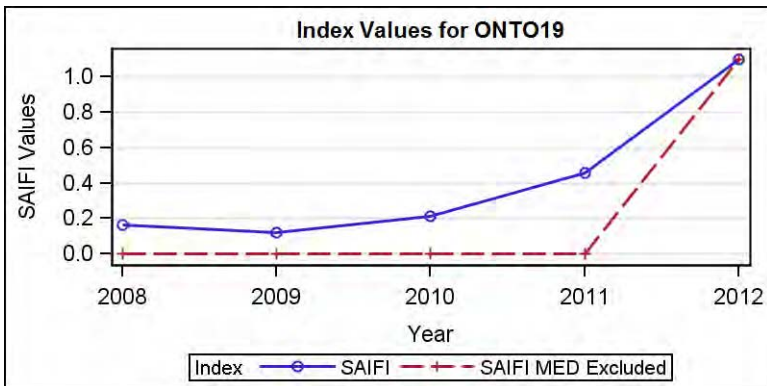
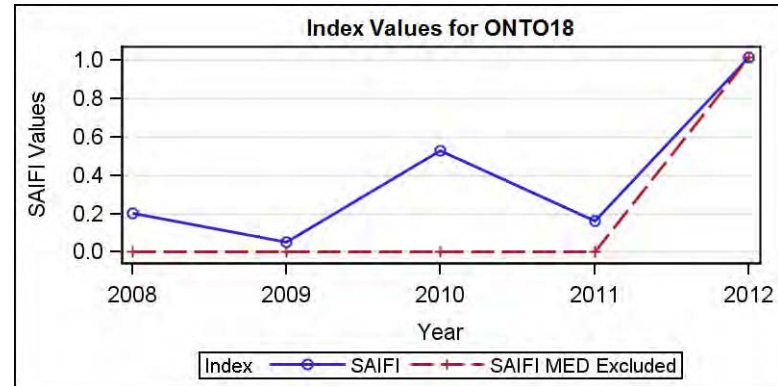
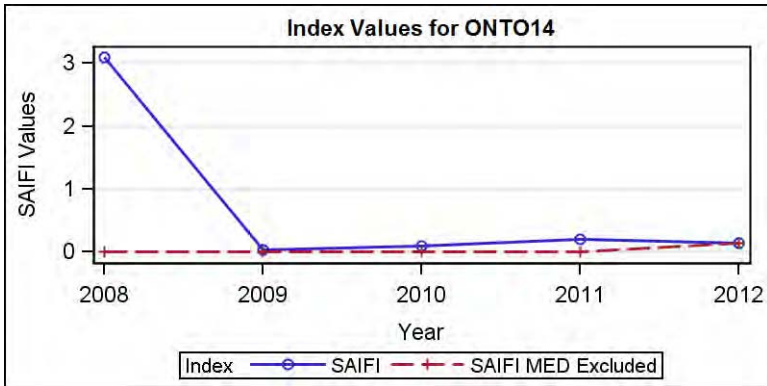
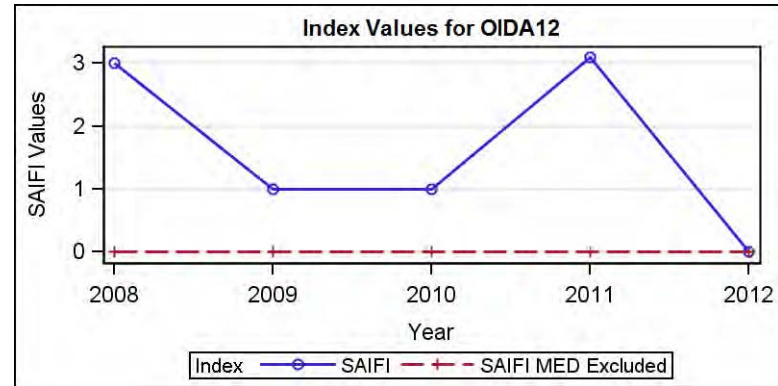
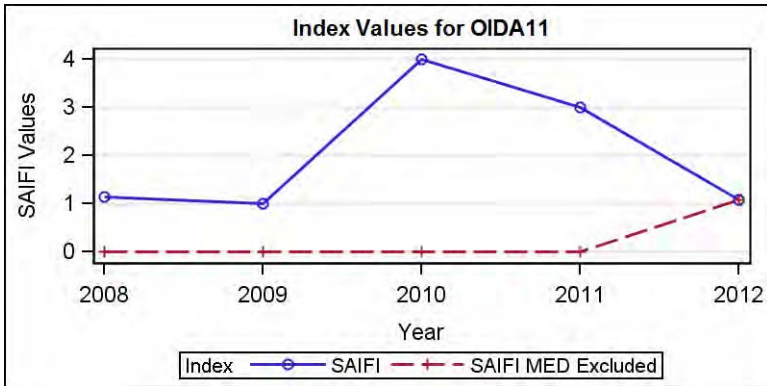


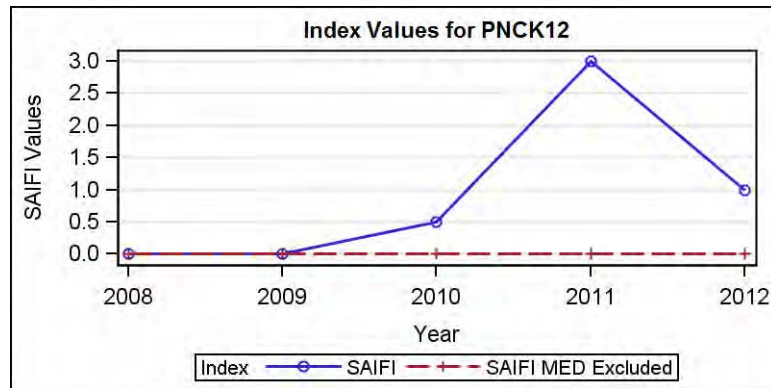
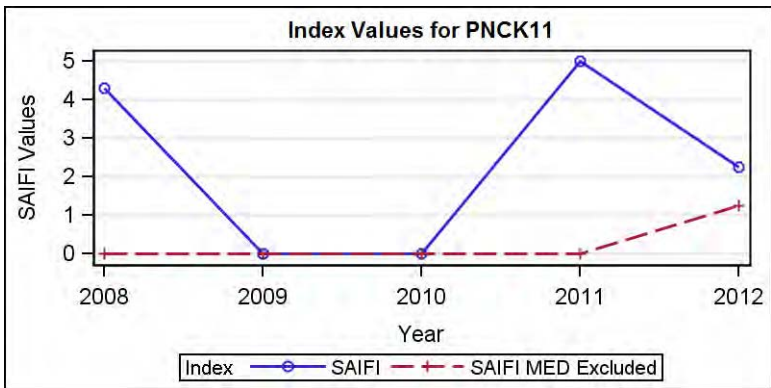
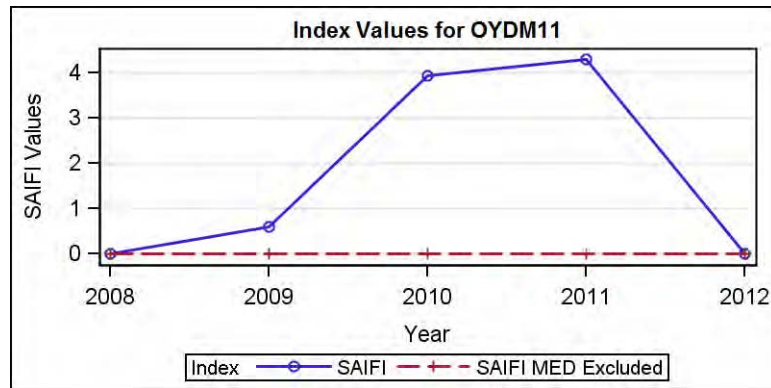
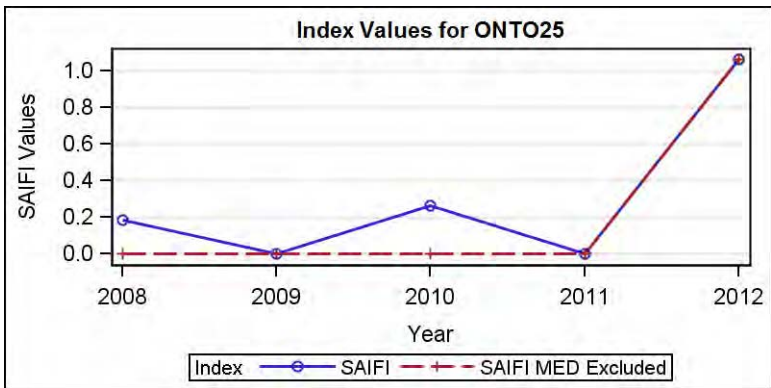
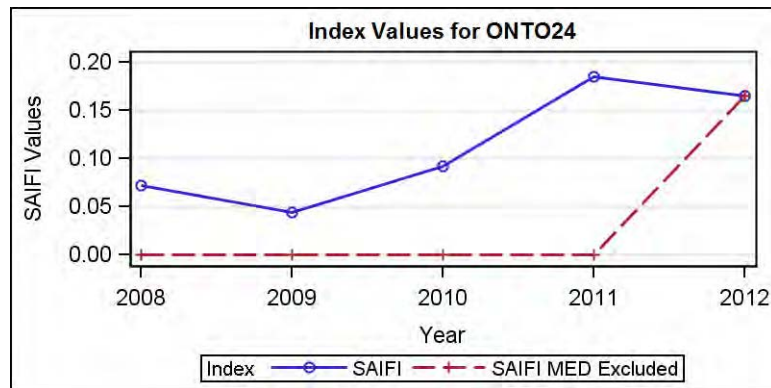
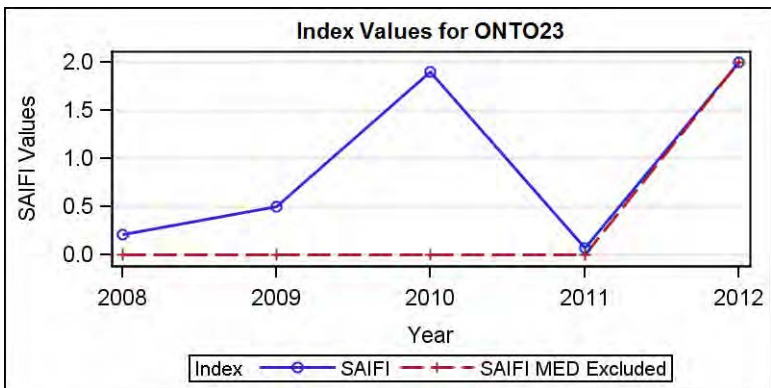


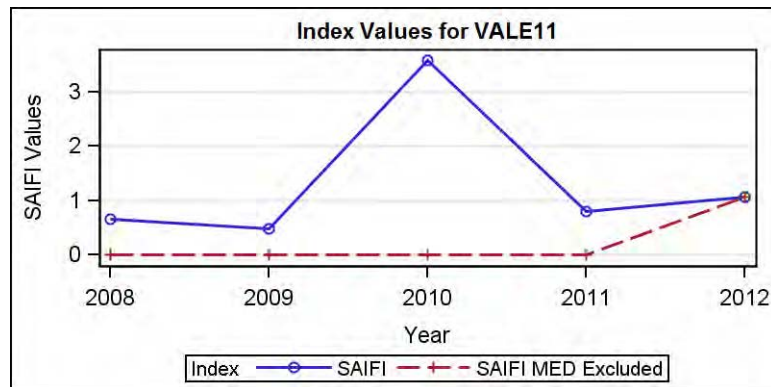
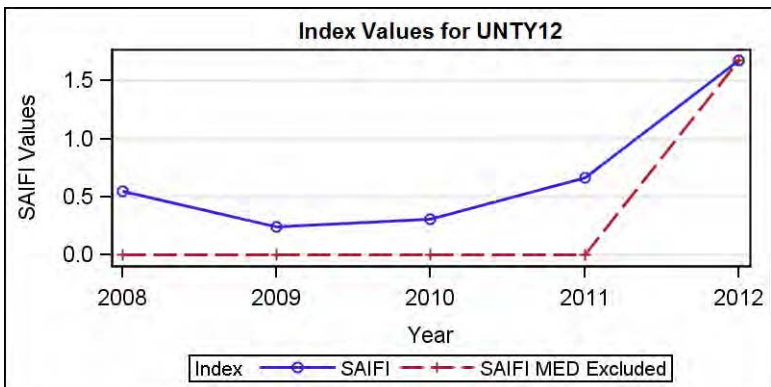
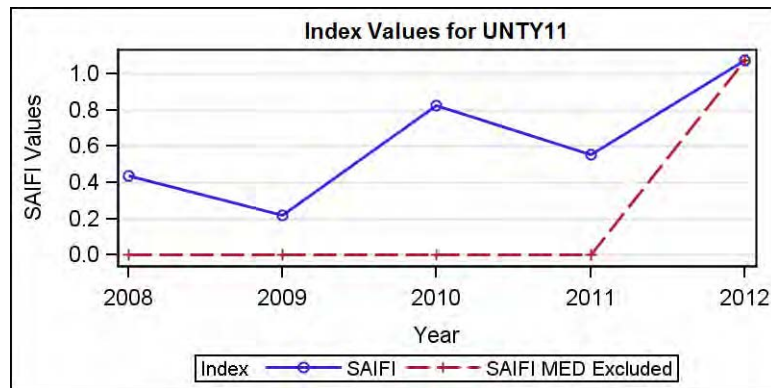
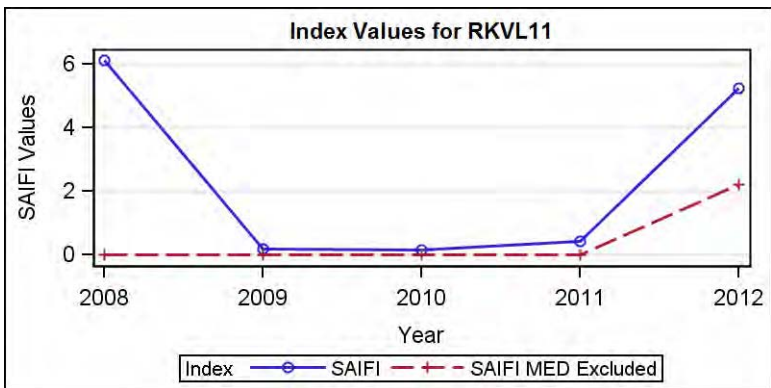
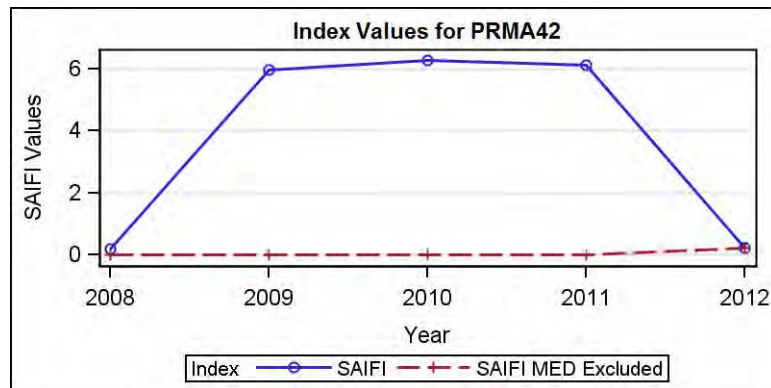
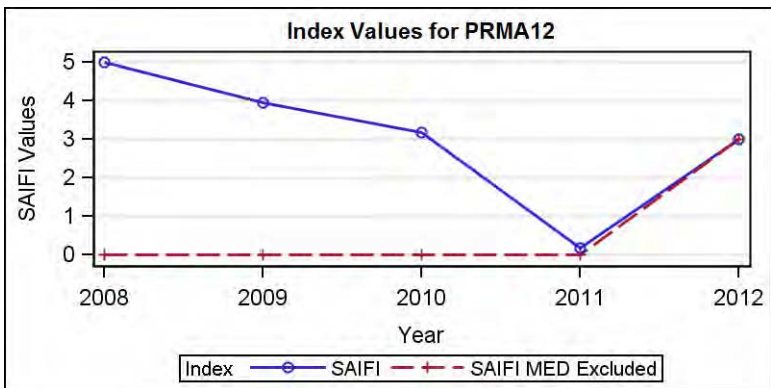


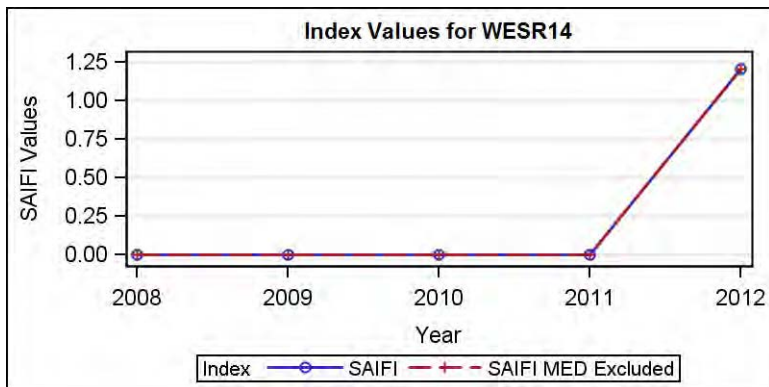
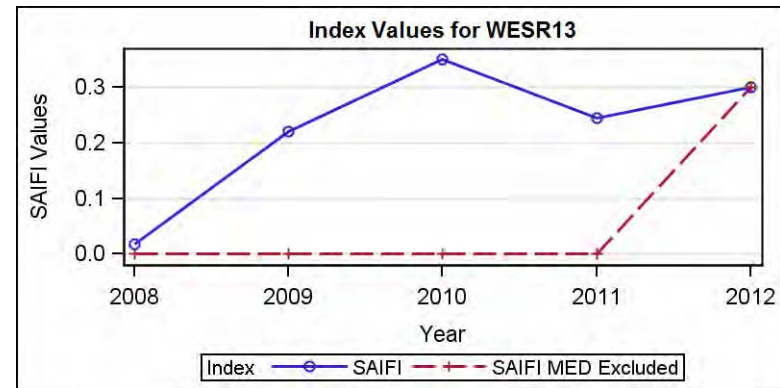
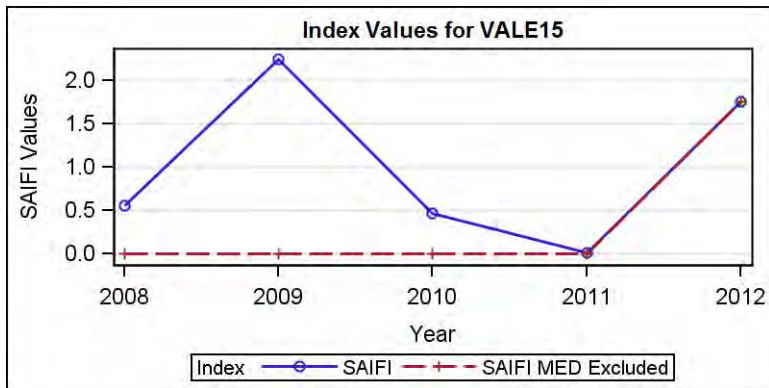
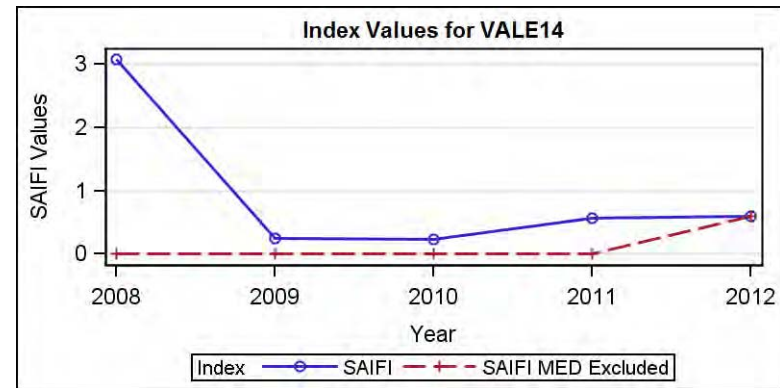
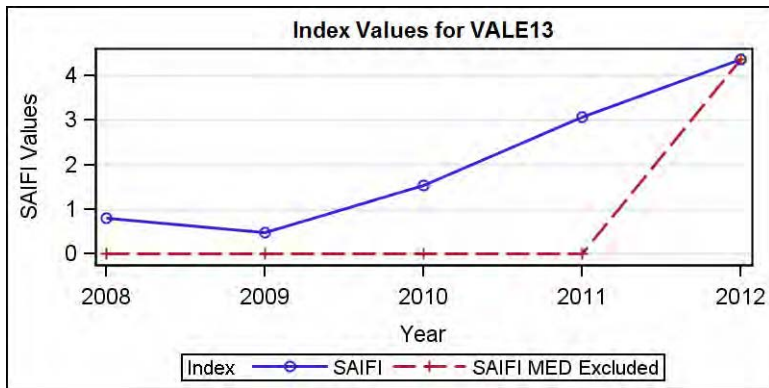




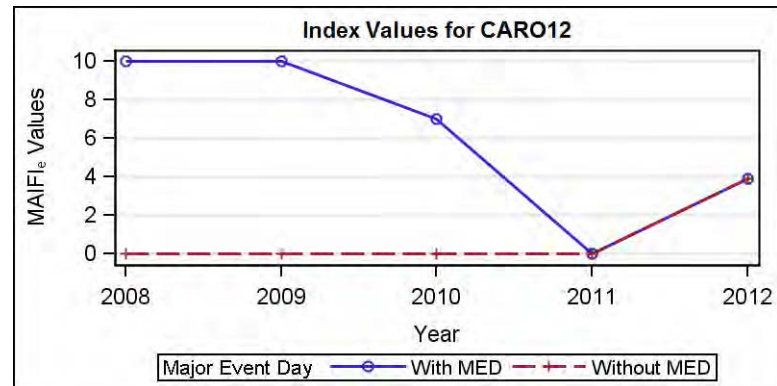
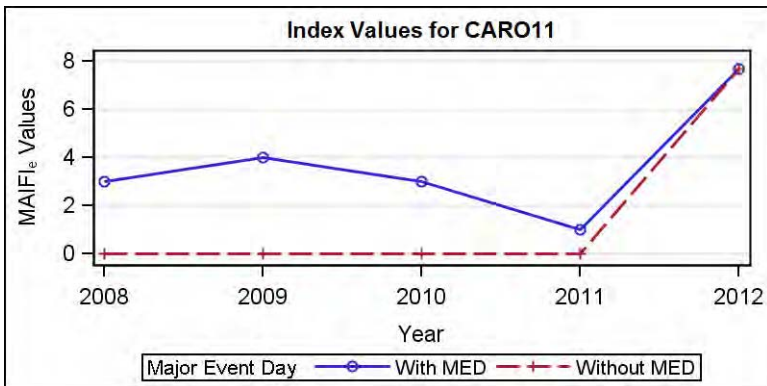
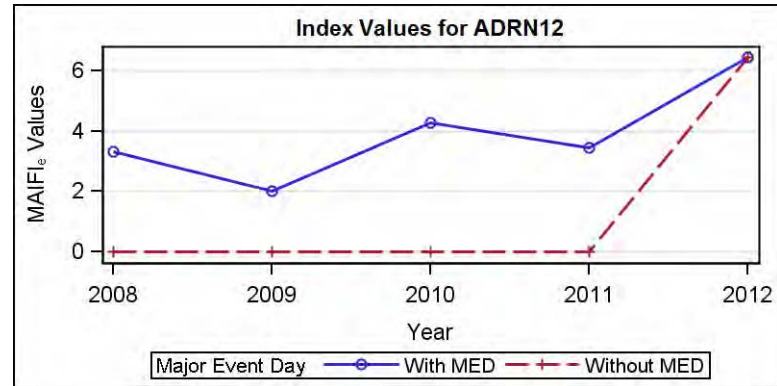
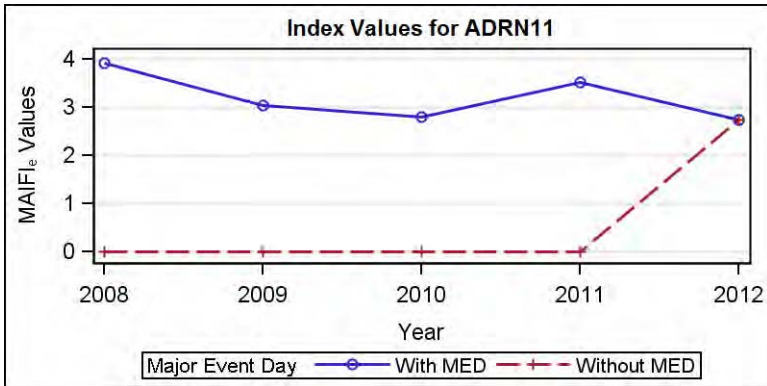


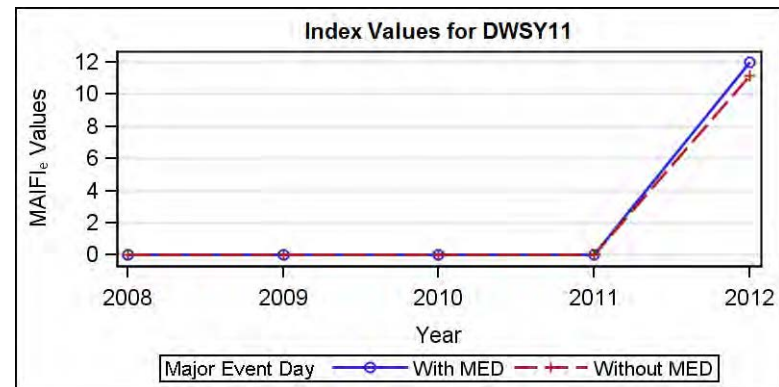
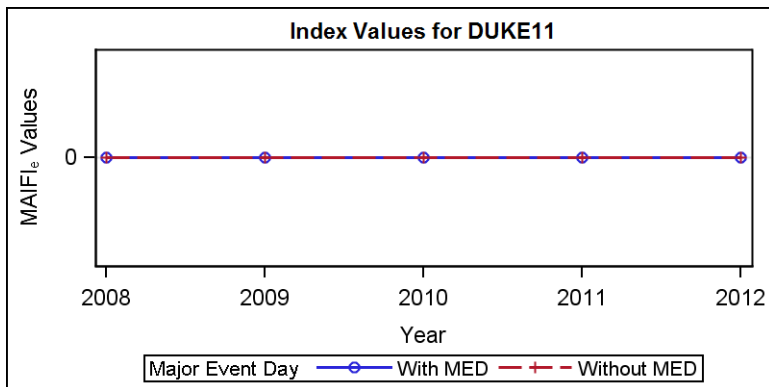
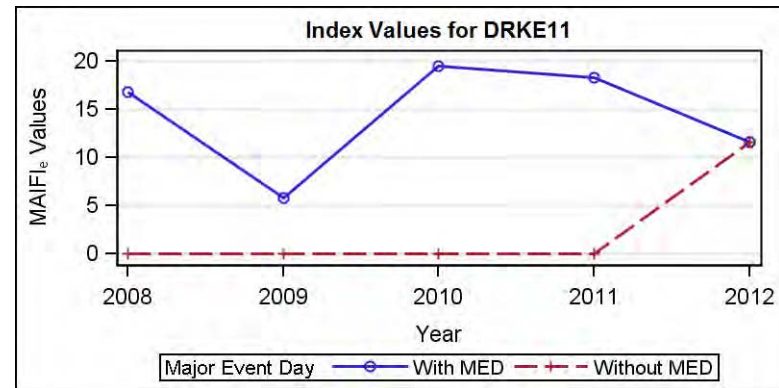
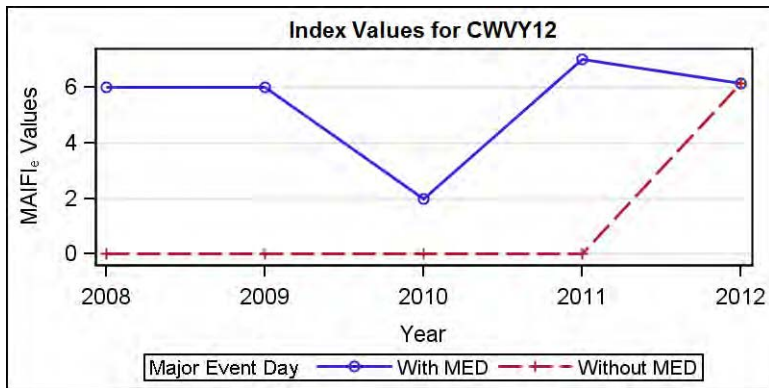
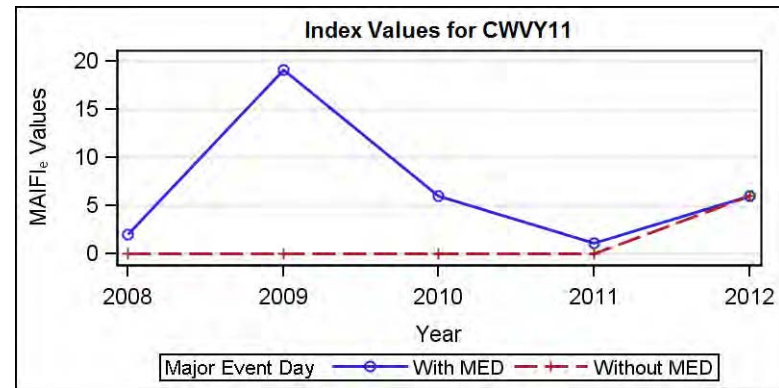
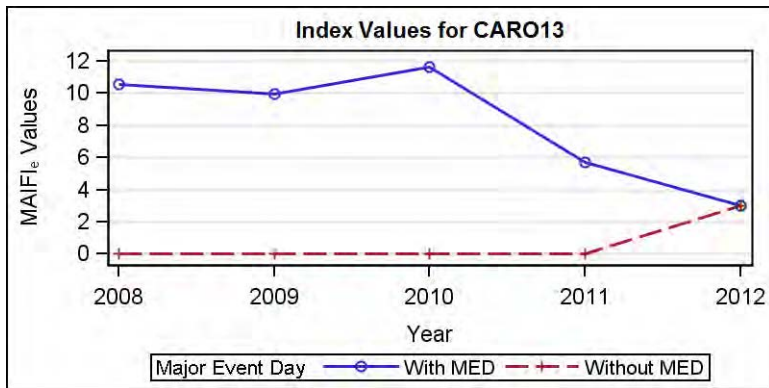


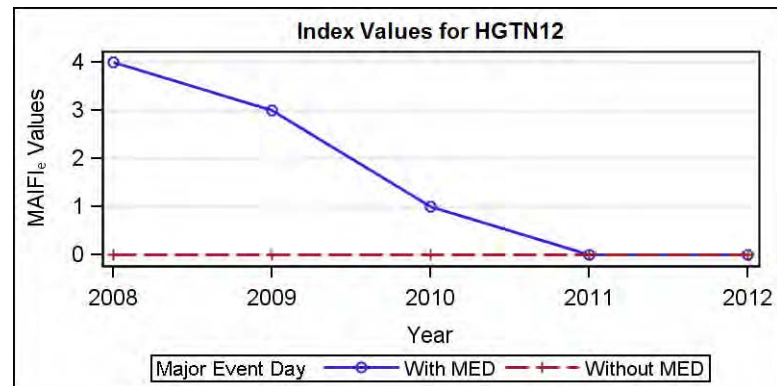
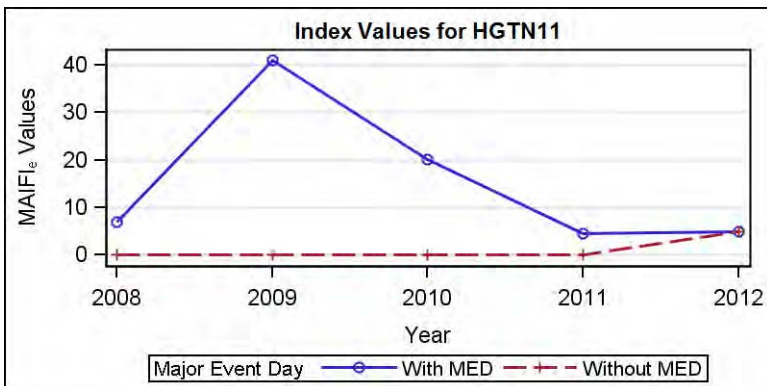
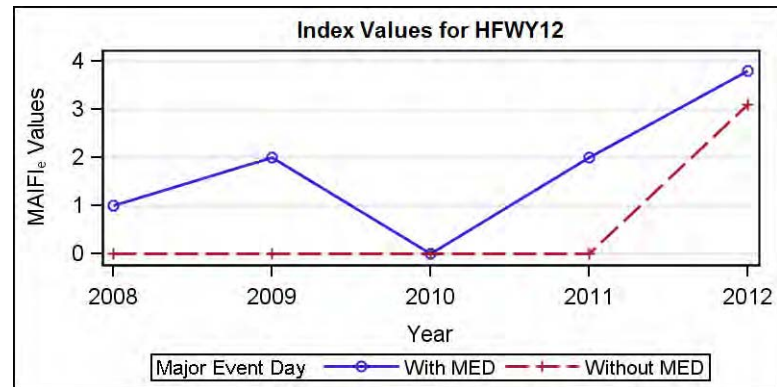
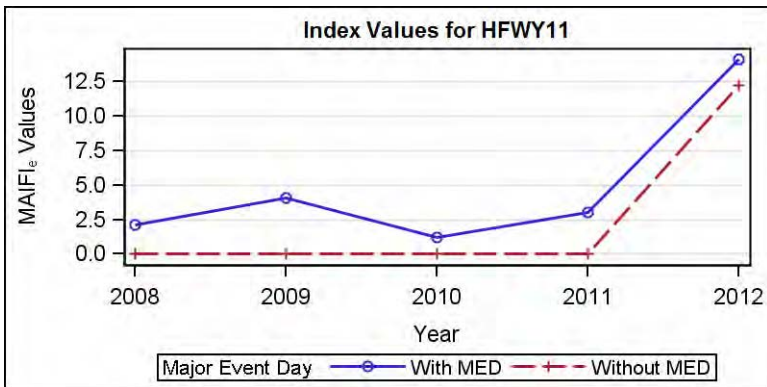
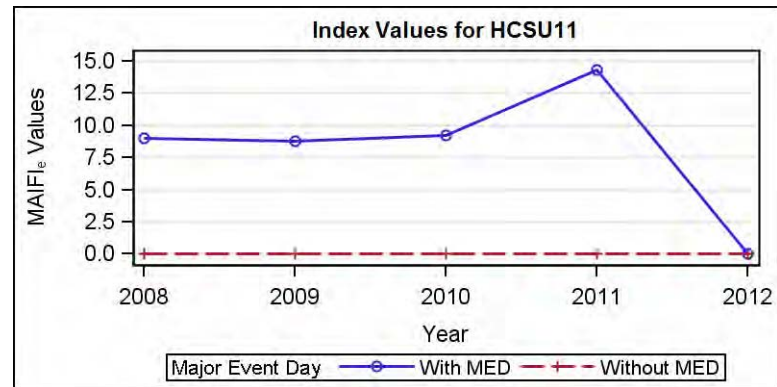
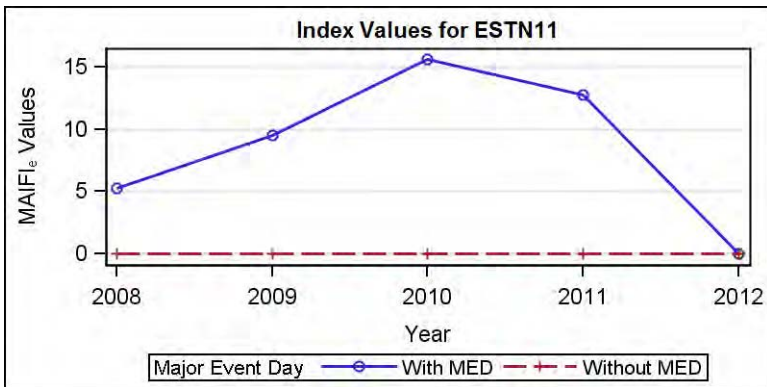


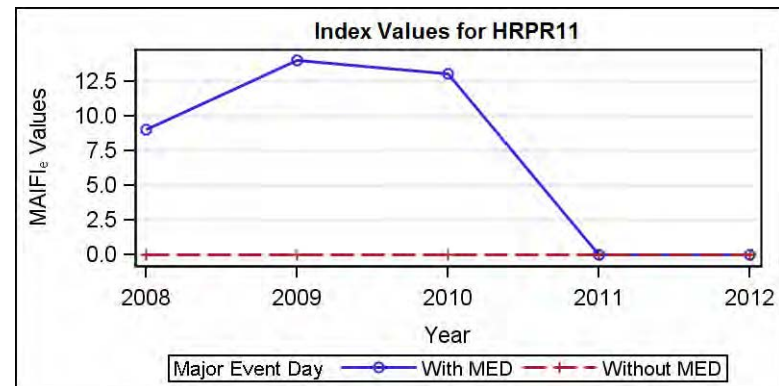
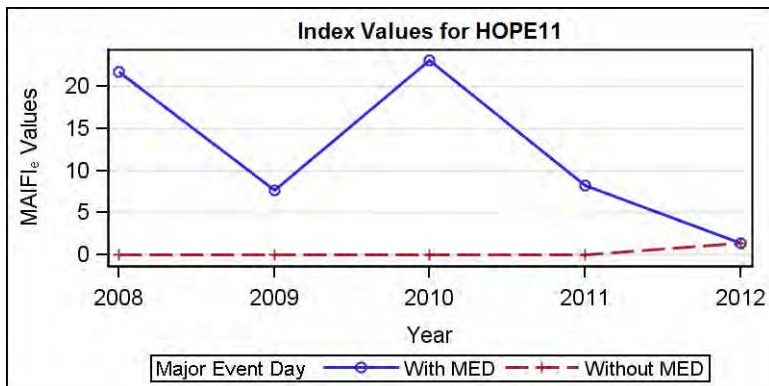
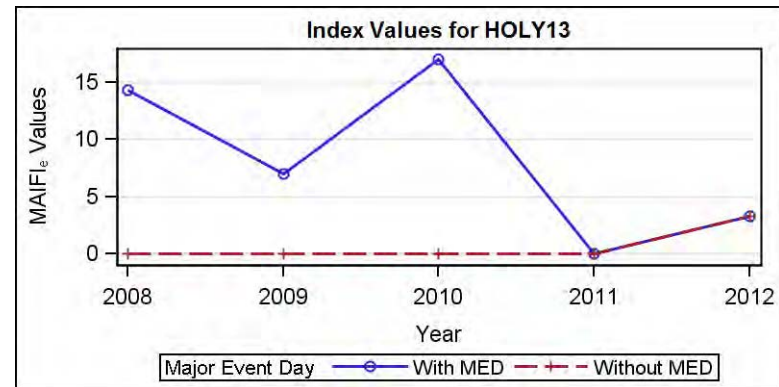
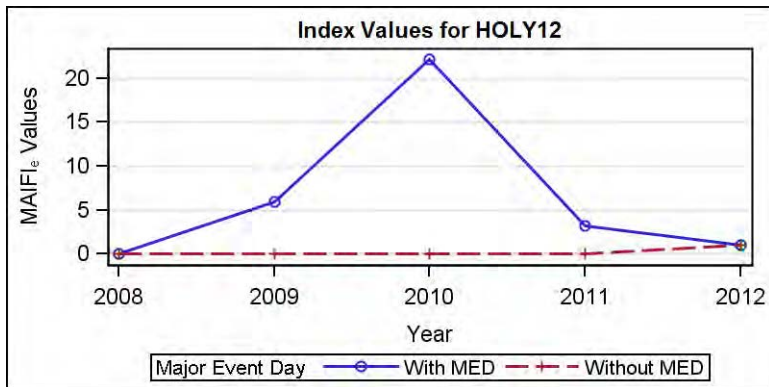
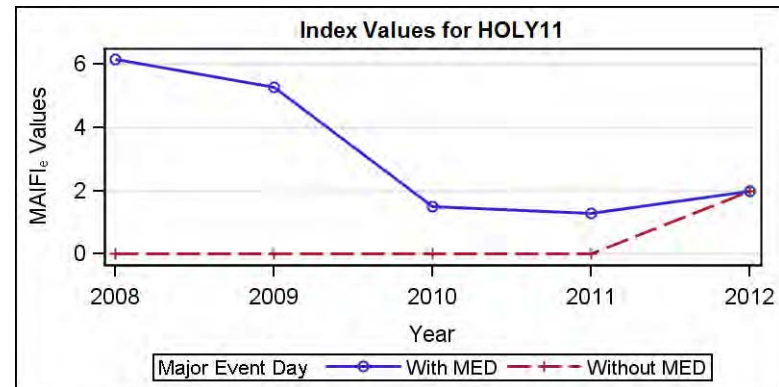
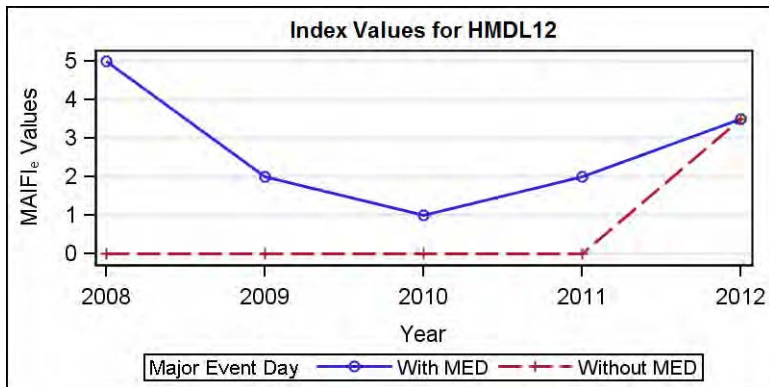


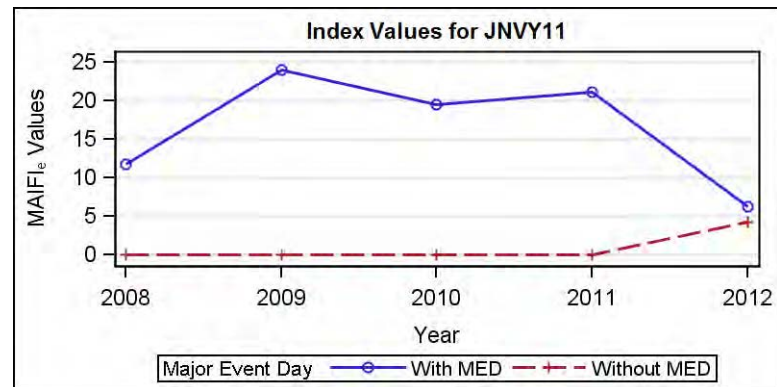
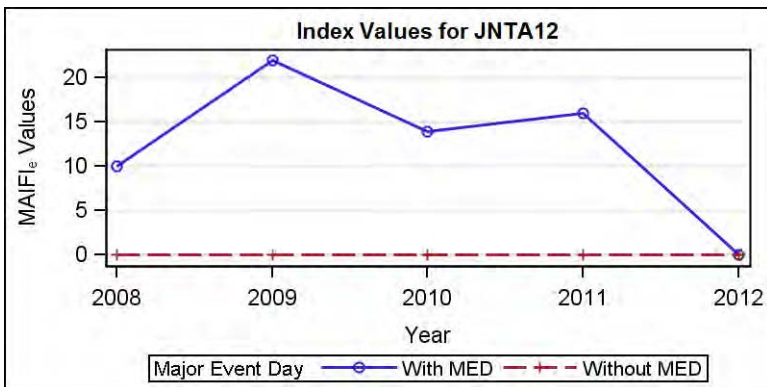
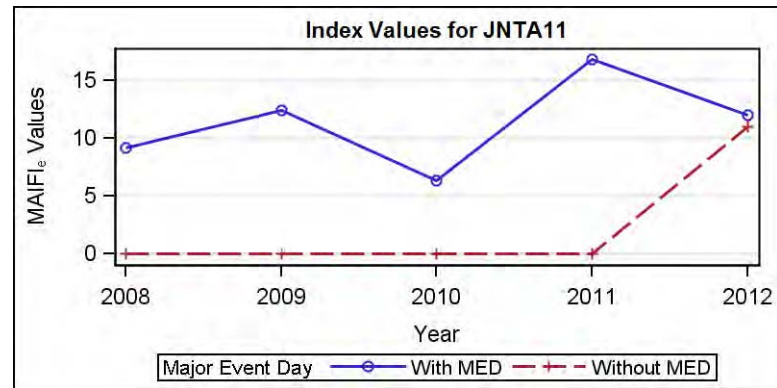
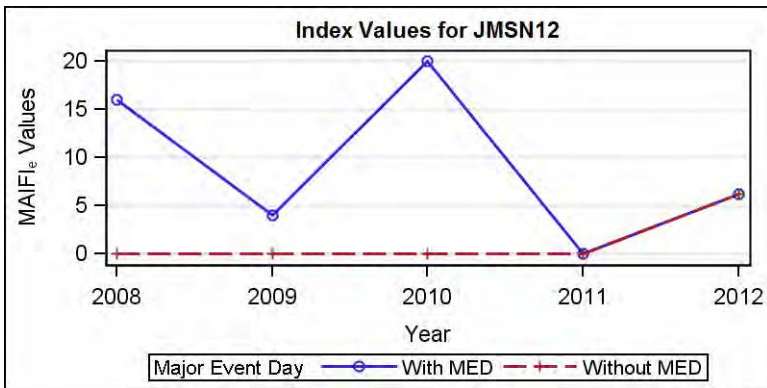
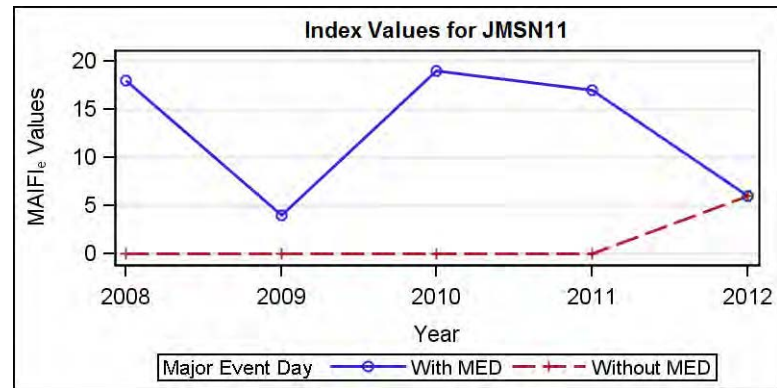
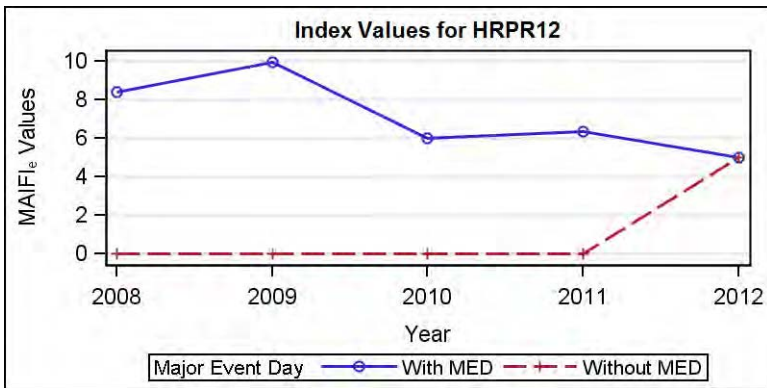
Circuit MAIFI_E Values

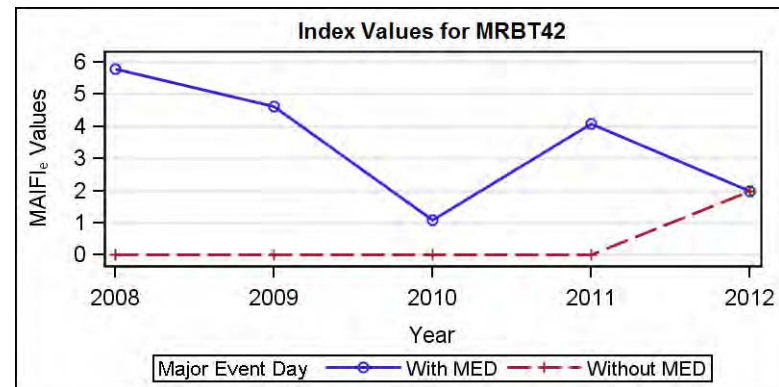
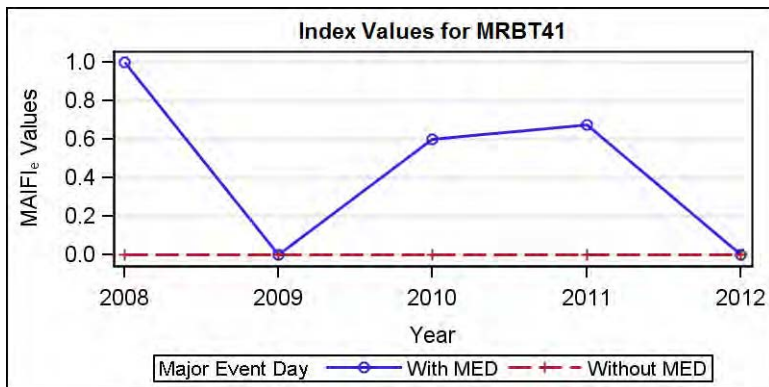
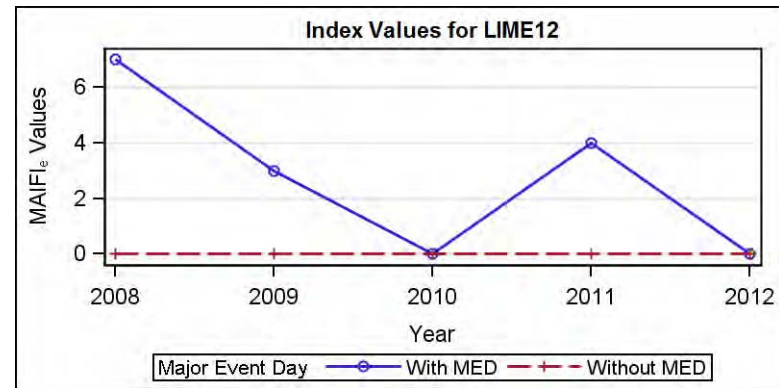
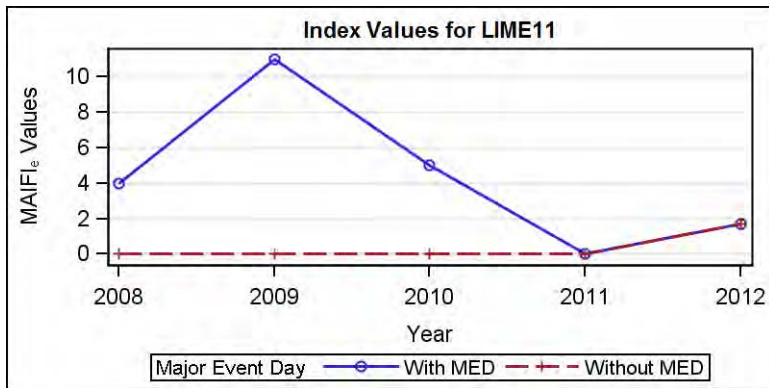
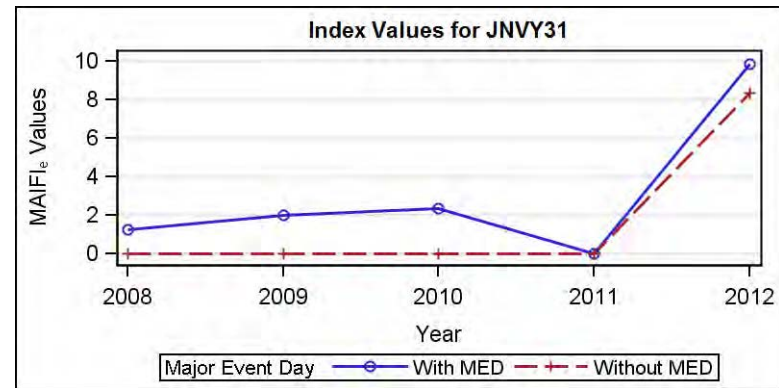
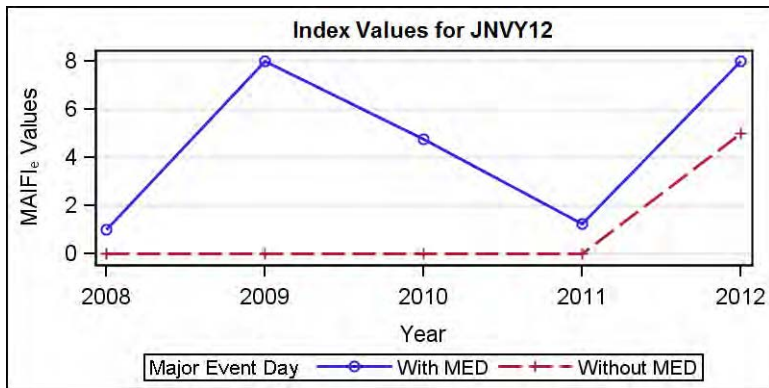


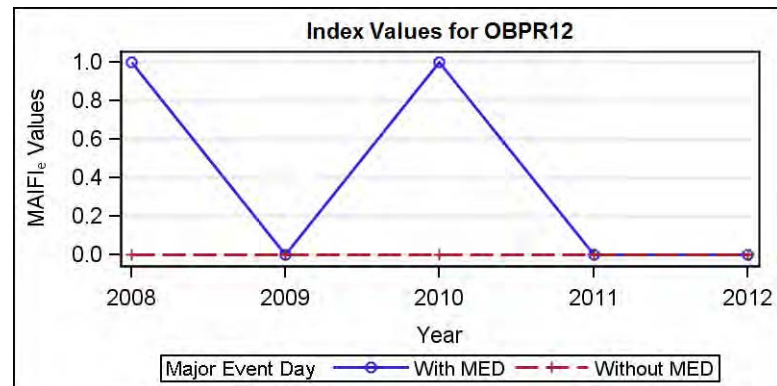
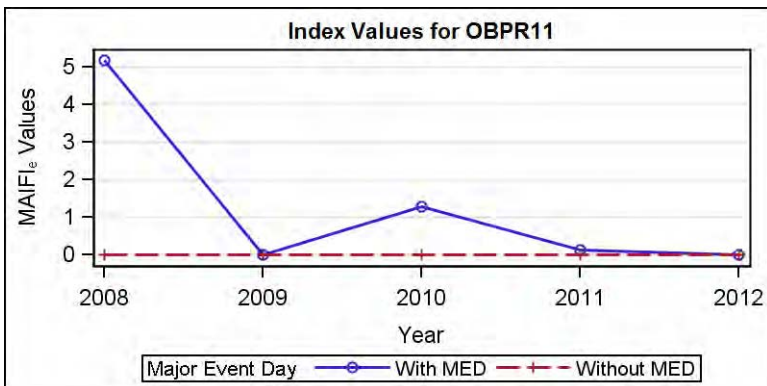
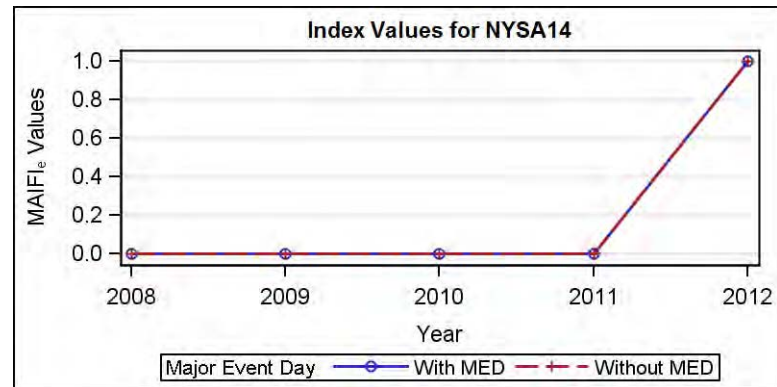
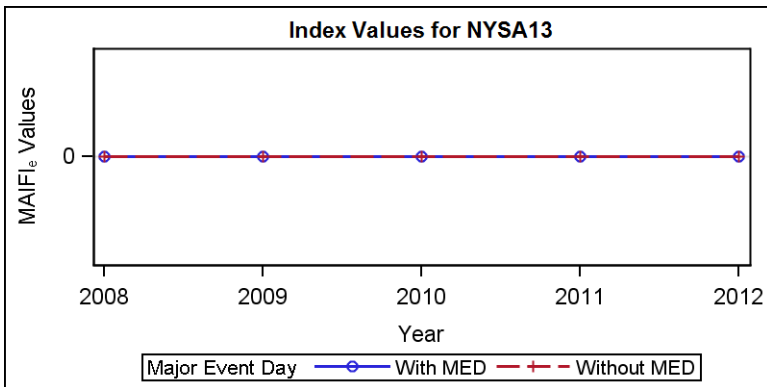
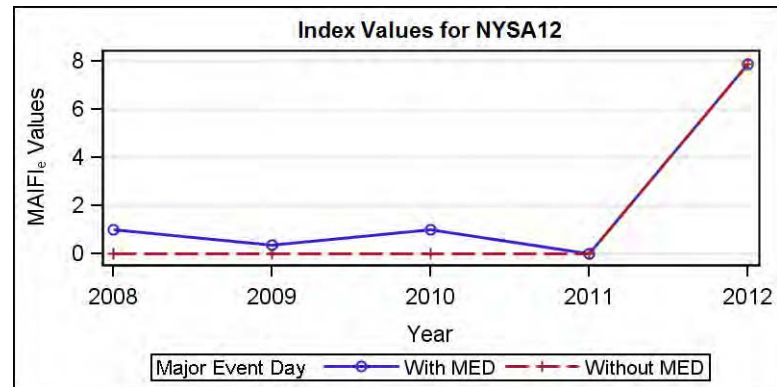
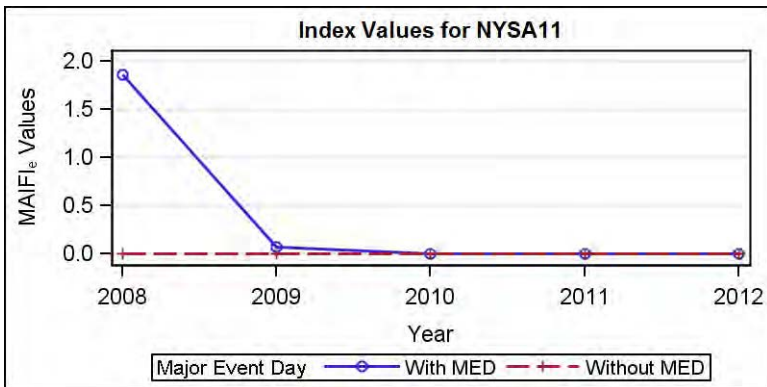


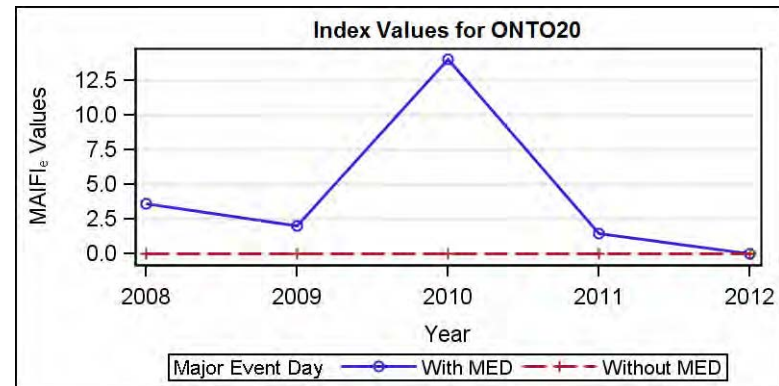
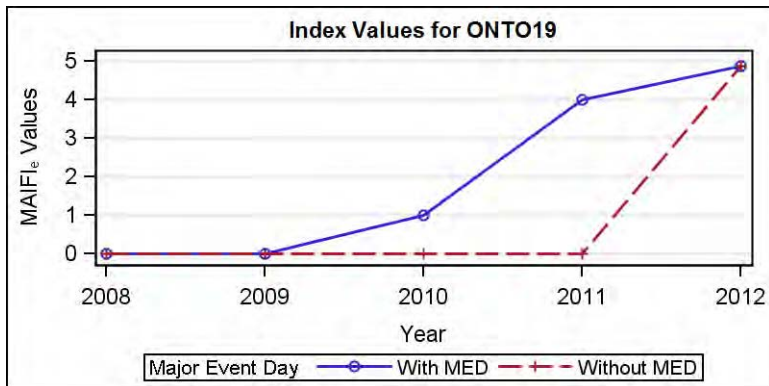
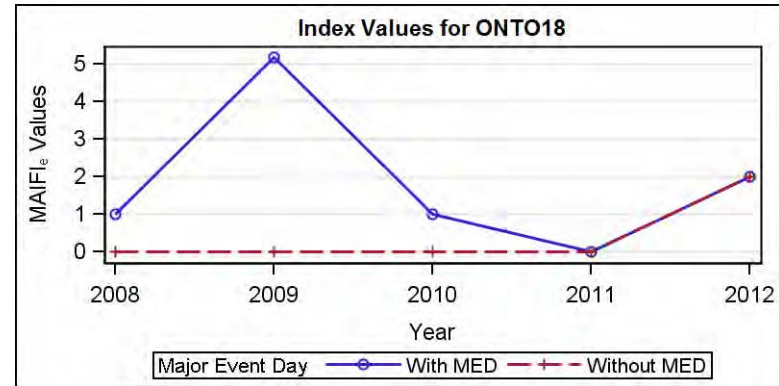
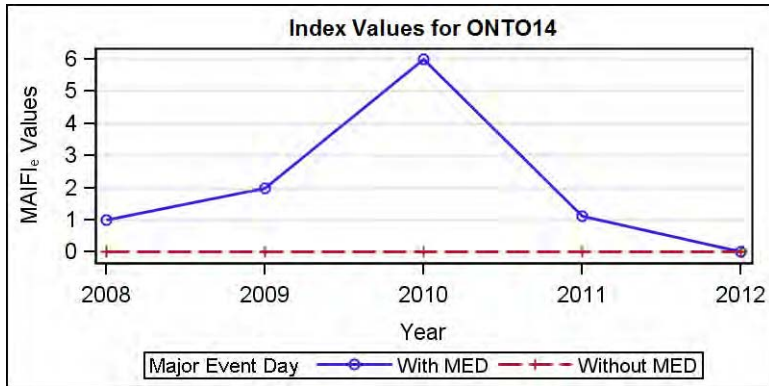
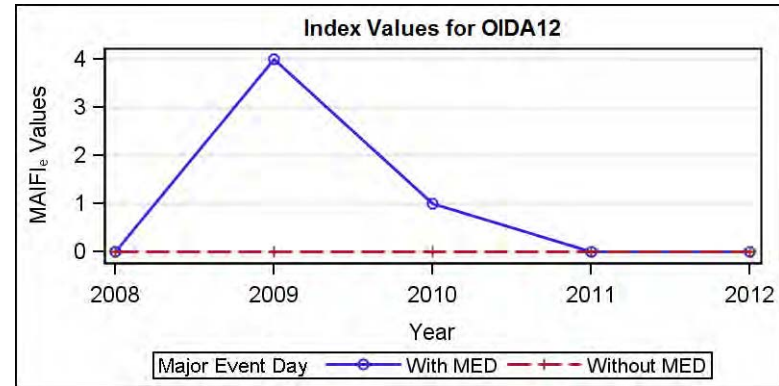
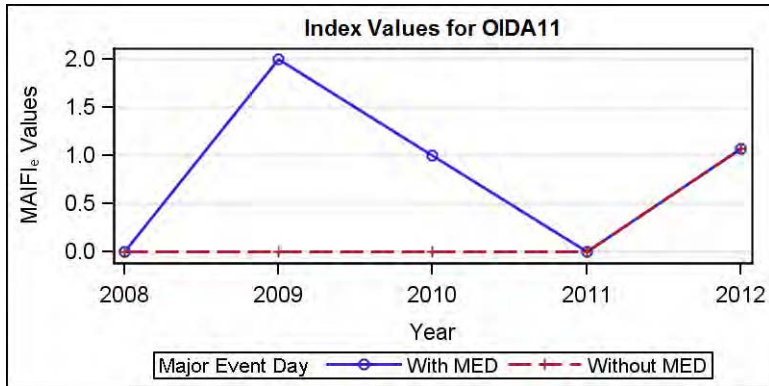


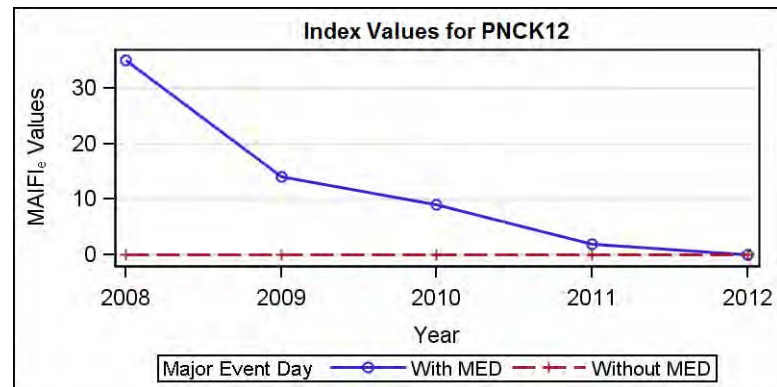
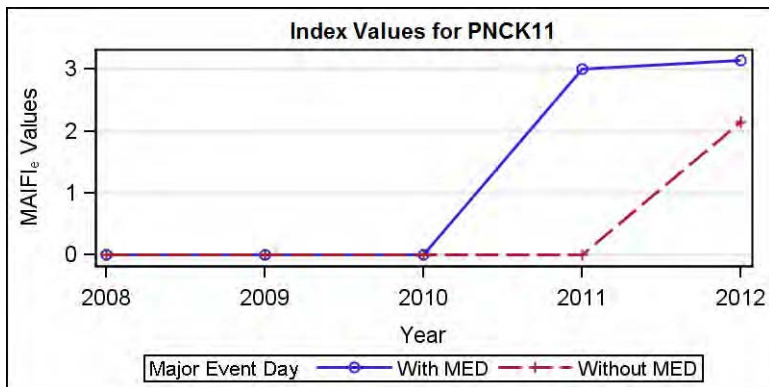
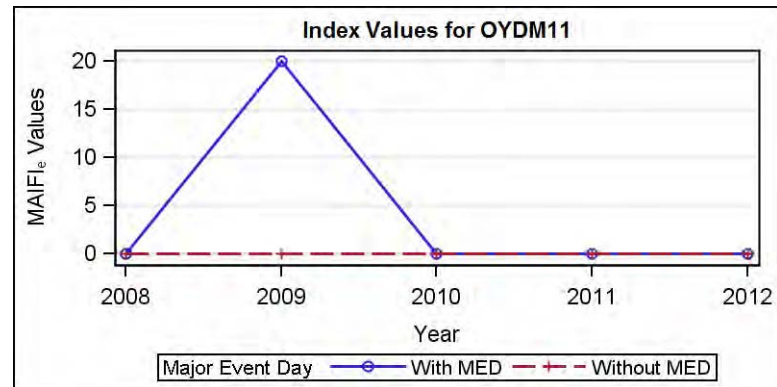
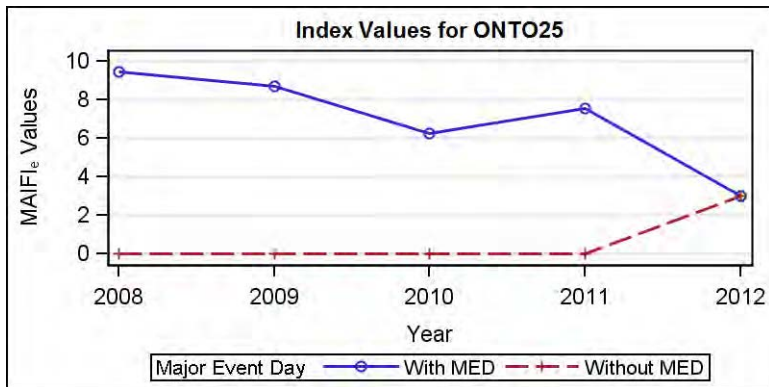
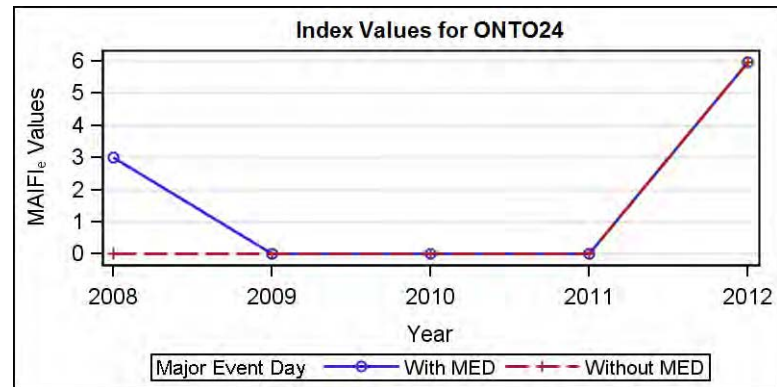
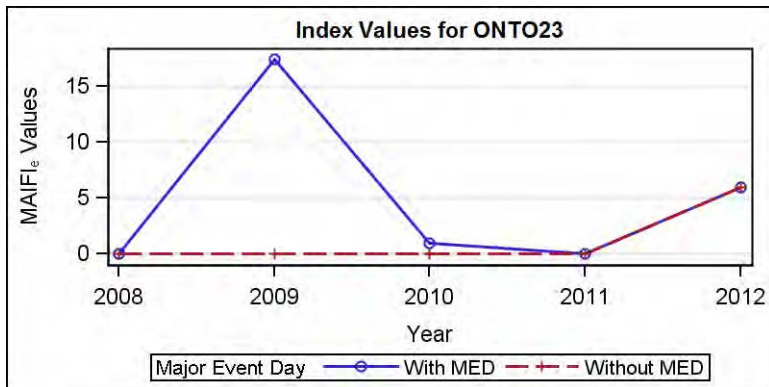


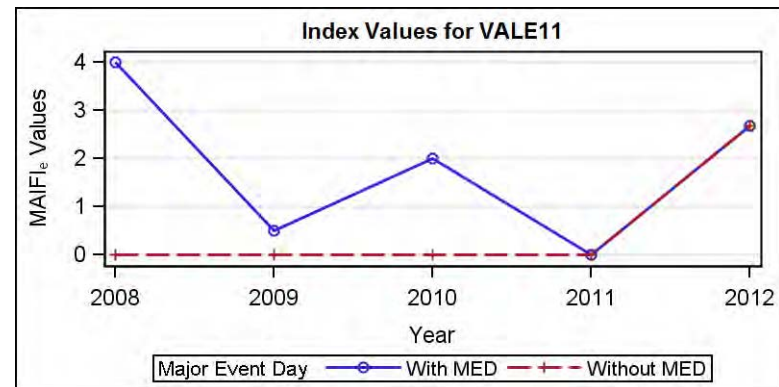
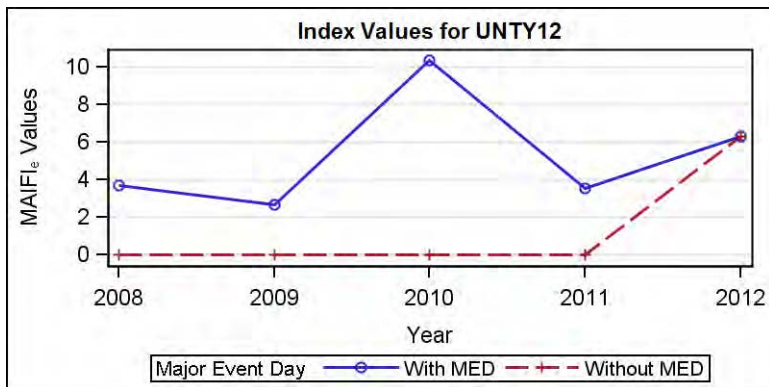
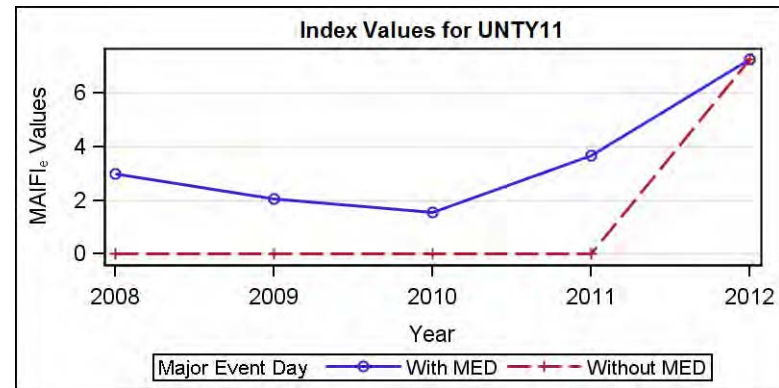
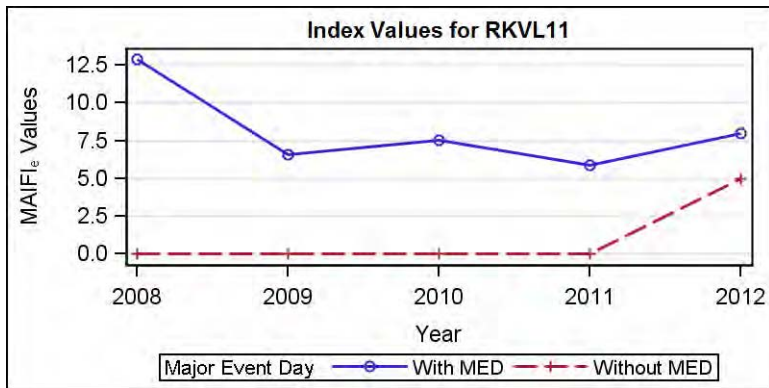
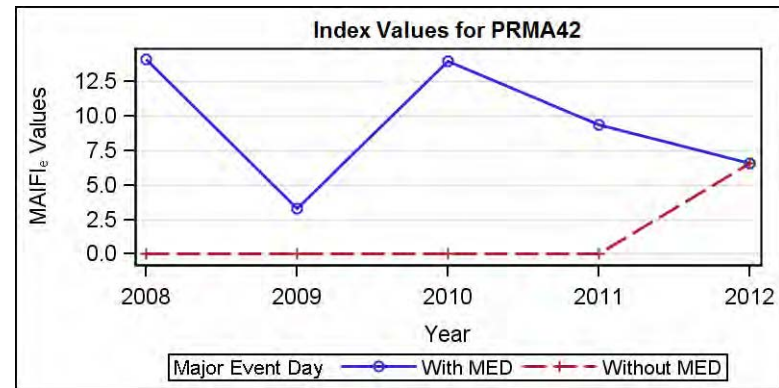
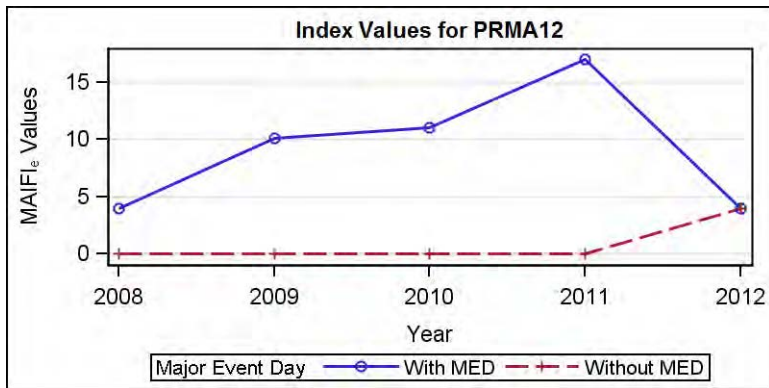












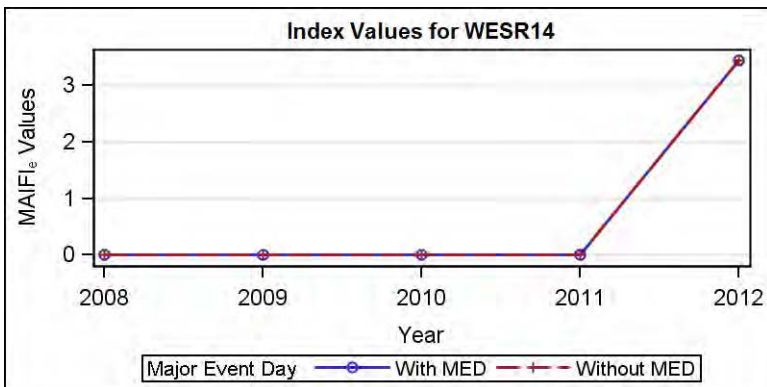
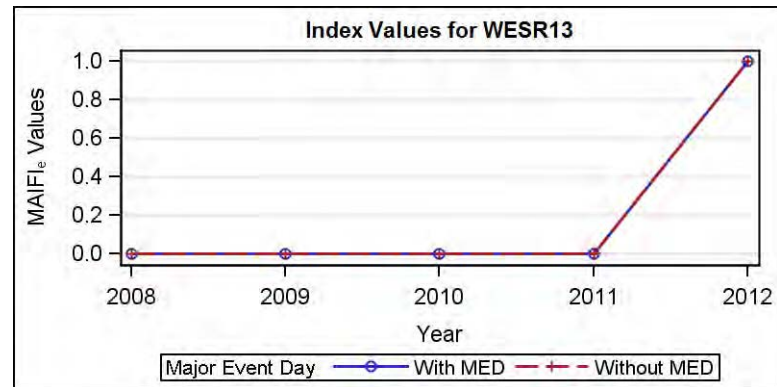
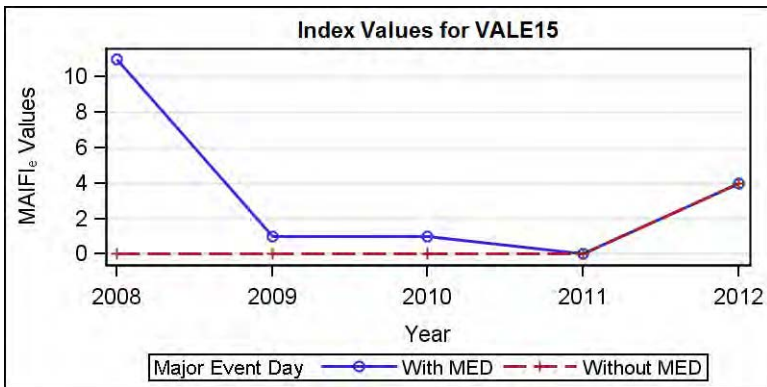
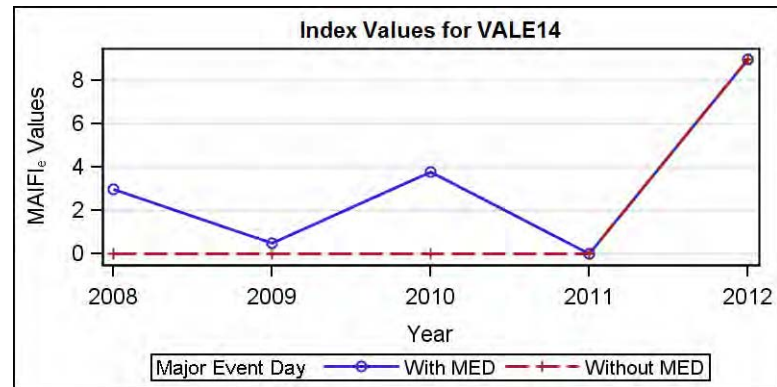
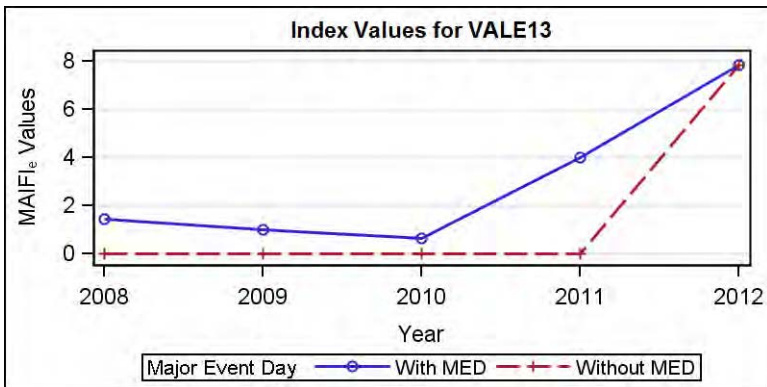


Table 5

Five years of sustained interruption causes

Cause	Number of Sustained Interruptions					Percent of Total Sustained Interruptions				
	2008	2009	2010	2010	2012	2008	2009	2010	2011	2012
Adverse environment	2	12	99	161	104	0.31	2.09	11.47	22.24	15.23
Adverse weather	48	40	0	0	0	7.37	6.96	0.00	0.00	0.00
Customer's equipment*	15	9	7	8	35	2.30	1.57	0.81	1.10	5.12
Equipment failures	151	110	216	162	173	23.20	19.13	25.03	22.38	25.33
Foreign interference	119	99	63	11	19	18.28	17.22	7.30	1.52	2.78
Human element	36	7	20	12	15	5.53	1.22	2.32	1.66	2.20
Lightning	9	19	16	15	15	1.38	3.30	1.85	2.07	2.20
Loss of supply	38	19	26	31	25	5.84	3.30	3.01	4.28	3.66
Major events**	0	0	0	0	2	0.00	0.00	0.00	0.00	0.29
Scheduled outages	112	64	155	149	136	17.20	11.13	17.96	20.58	19.91
Tree contacts	22	25	49	45	59	3.38	4.35	5.68	6.22	8.64
Unknown	114	180	219	138	137	17.51	31.30	25.38	19.06	20.06
Total	651	575	863	724	683	100.00	100.00	100.00	100.00	100.00

*not included in calculations

**not included in calculations, see MED summary

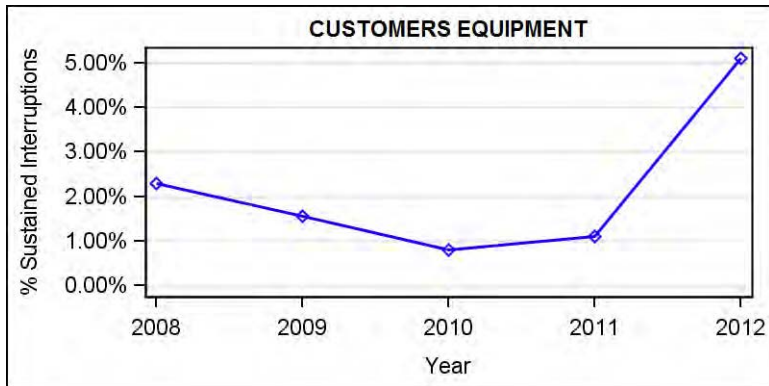
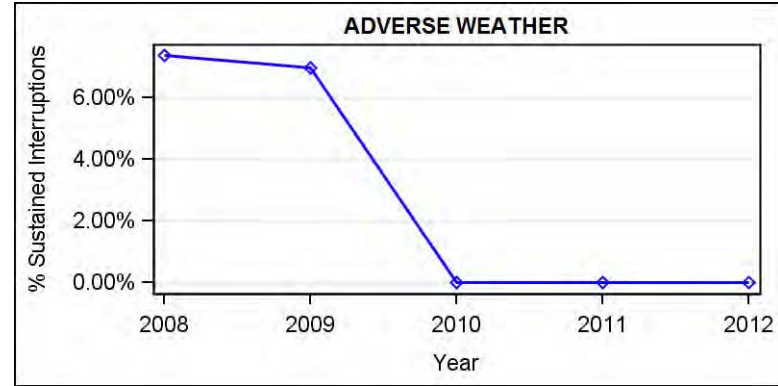
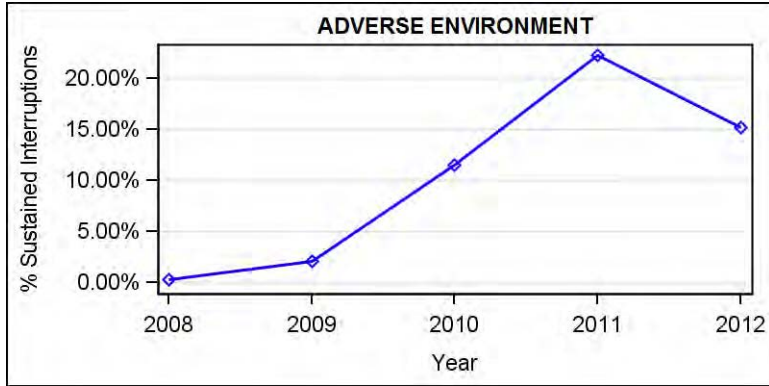
Table 6
2012 sustained interruption cause ranking

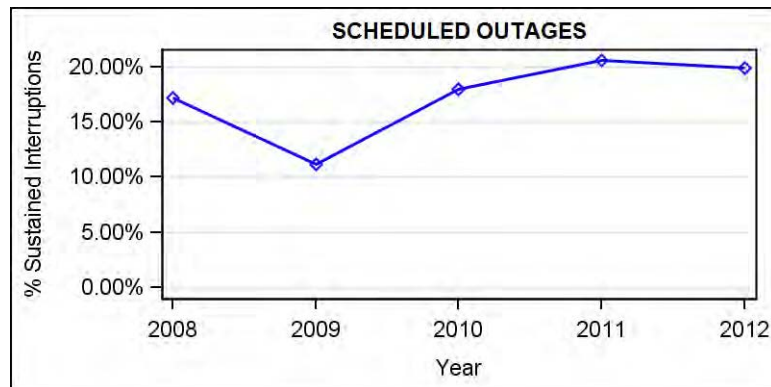
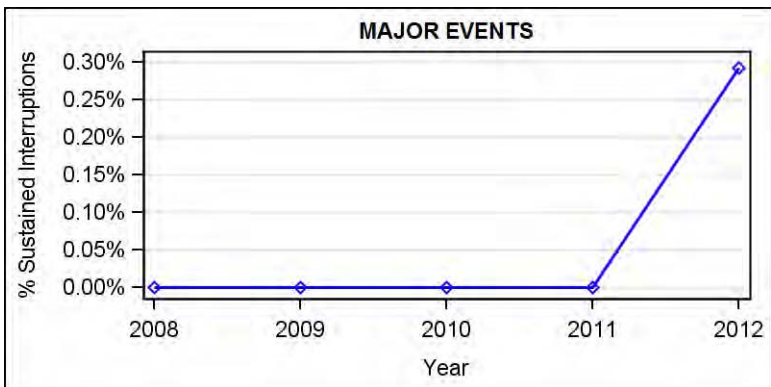
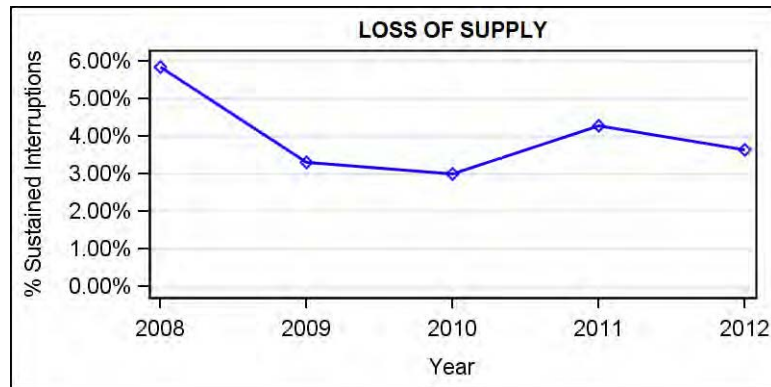
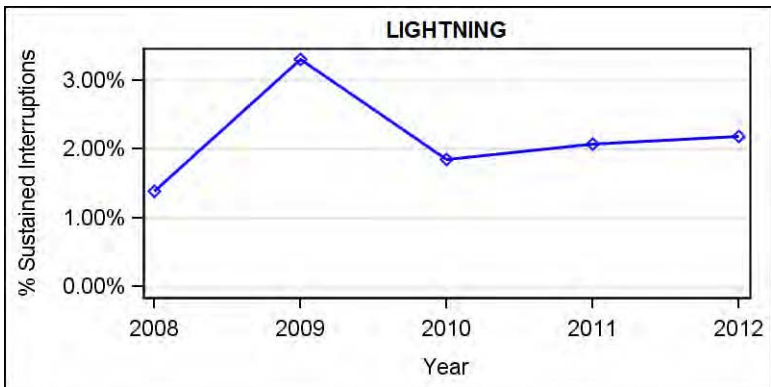
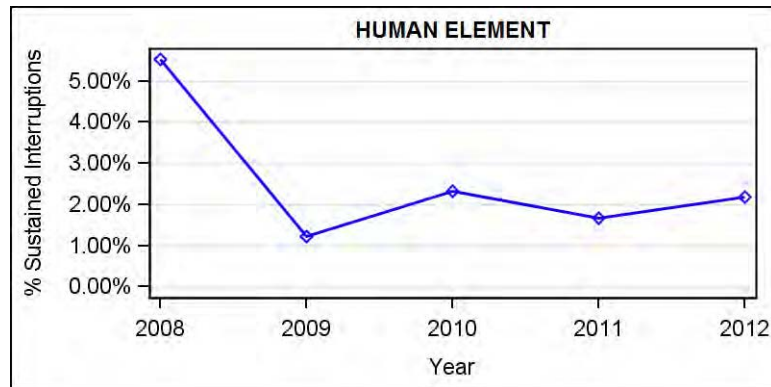
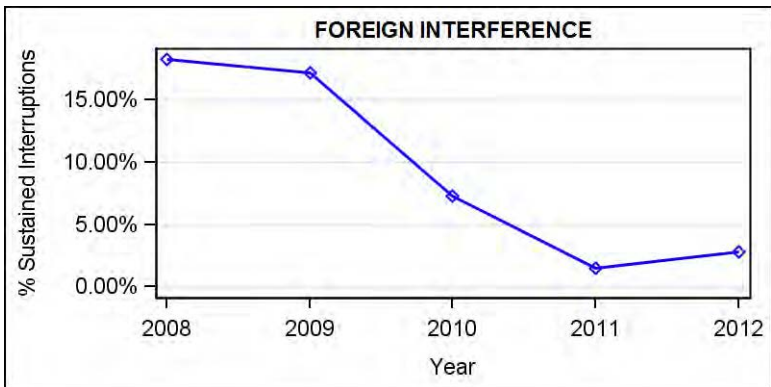
Cause	Occurrences	Customer Hours Out	Occurrences Ranking	Hours Out Ranking
Equipment failure	173	28,278.59	1	1
Unknown	137	7,379.45	2	4
Adverse environment	104	8,270.71	4	3
Scheduled outages	136	5,039.91	3	5
Loss of supply	25	8,970.05	7	2
Tree/vegetation	59	4,365.52	5	6
Customer equipment*	35	862.18	6	9
Lightning	15	2,414.18	9	7
Foreign interference	19	440.23	8	10
Human element	15	1,444.96	10	8
Major events**	2	0.00	11	11
Adverse weather	0	0.00	12	12
Total	683	66,603.60		

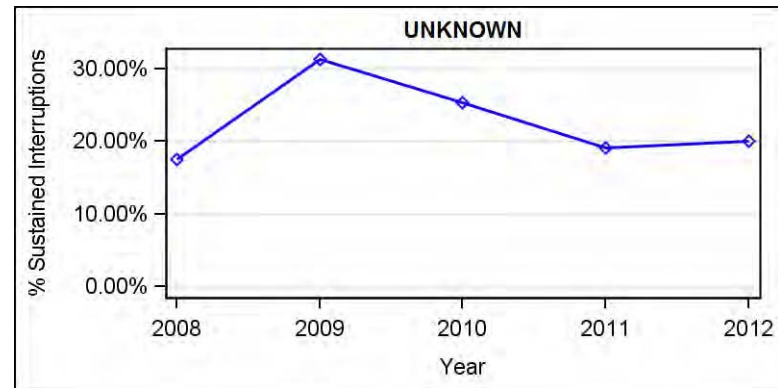
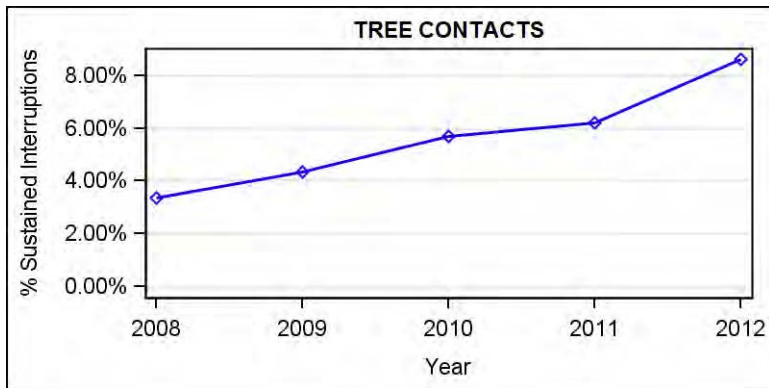
*not included in calculations

**not included in calculations, see MED summary

SUSTAINED INTERRUPTIONS CAUSES







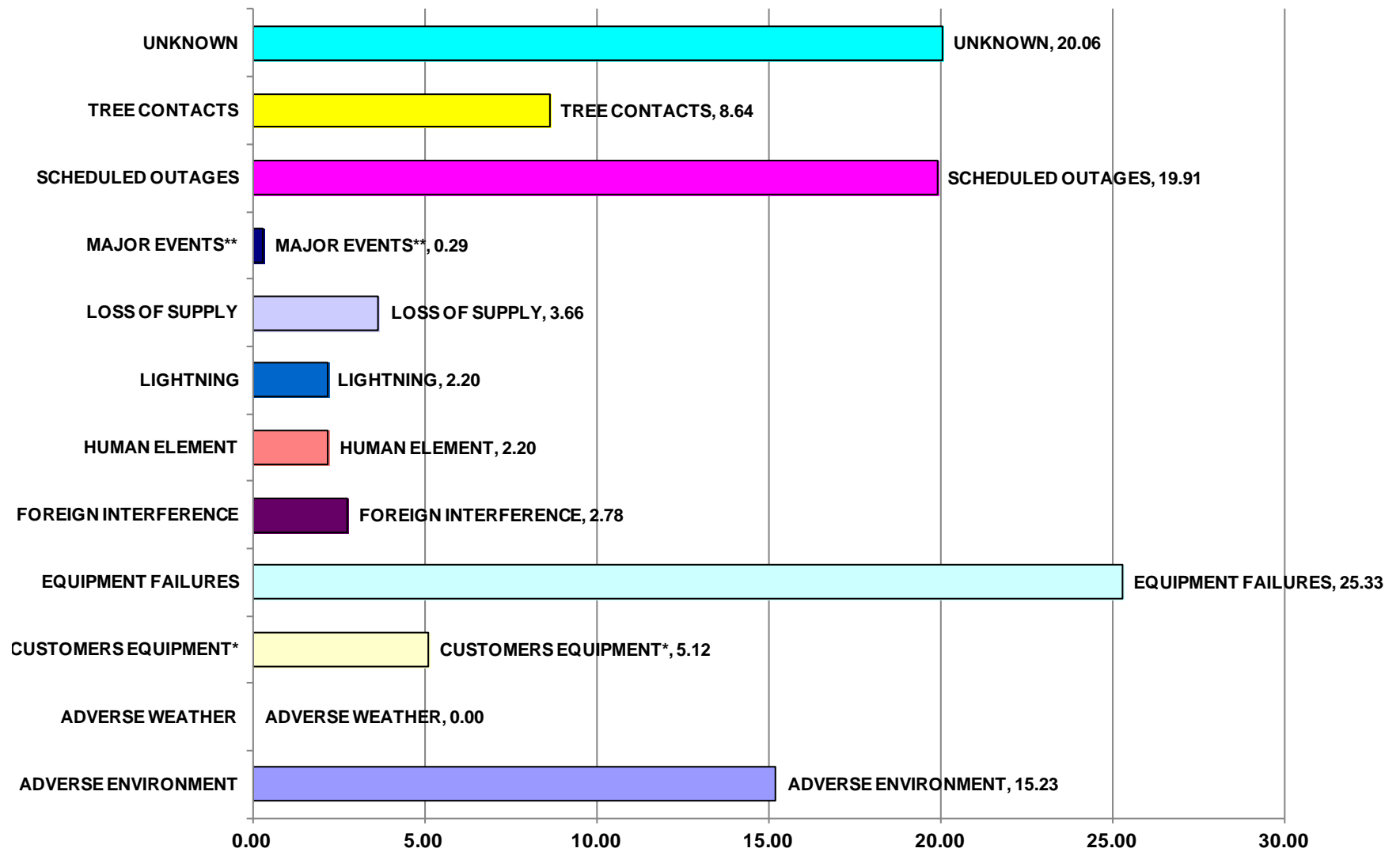


Figure 7
2012 causes for sustained interruptions

Table 7
2012 momentary events causes

Cause	Number of Interruptions	Percent of Total	Occurrences Ranking
Unknown***	460	98.08	1
Equipment failures	3	0.64	2
Scheduled outages	2	0.43	3
Adverse environment	2	0.43	4
Human element	2	0.43	5
Tree contacts	0	0.00	6
Major events**	0	0.00	7
Loss of supply	0	0.00	8
Lightning	0	0.00	9
Foreign interference	0	0.00	10
Customers equipment*	0	0.00	11
Adverse weather	0	0.00	12
Total	469	100.00	

*not Included in calculations

**not Included in calculations see MED Summary

***99.13 percent of the UNKNOWN momentary events were monitored by the sentry units

Table 8
Customer count voltage station

Circuit	Substation	Kilovolts (kV)	Customers*
ADRN11	ADRN	12.5	357
ADRN12	ADRN	12.5	571
BDPK11	BDPK	12.5	1
CARO11	CARO	12.5	1,171
CARO12	CARO	12.5	89
CARO13	CARO	12.5	740
CWVY11	CWVY	12.5	46
CWVY12	CWVY	12.5	105
DRKE11	DRKE	12.5	170
DUKE11	DUKE	12.5	28
DWSY11	DWSY	12.5	170
ESTN11	ESTN	12.5	3
HCSU11	HCSU	12.5	2
HFVY11	HFVY	12.5	737
HFVY12	HFVY	12.5	520
HGTN11	HGTN	12.5	71
HGTN12	HGTN	12.5	305
HMDL12	HMDL	12.5	138
HOLY11	HOLY	12.5	181
HOLY12	HOLY	12.5	72
HOLY13	HOLY	12.5	162
HOPE11	HOPE	12.5	129
HRPR11	HRPR	12.5	96
HRPR12	HRPR	12.5	173

Table 8 (continued)

Circuit	Substation	Kilovolts (kV)	Customers
JMSN11	JMSN	12.5	380
JMSN12	JMSN	12.5	233
JNTA11	JNTA	12.5	65
JNTA12	JNTA	12.5	44
JNVY11	JNVY	12.5	86
JNVY12	JNVY	12.5	80
JNVY31	JNVY	24	328
LIME11	LIME	12.5	110
MRBT41	MRBT	34.5	10
MRBT42	MRBT	34.5	7
NYSA11	NYSA	12.5	859
NYSA12	NYSA	12.5	527
NYSA13	NYSA	12.5	419
NYSA14	NYSA	12.5	237
OIDA11	OIDA	12.5	614
OIDA12	OIDA	12.5	1
ONTO14	ONTO	12.5	34
ONTO18	ONTO	12.5	861
ONTO19	ONTO	12.5	1,757
ONTO20	ONTO	12.5	1,213
ONTO23	ONTO	24	44
ONTO24	ONTO	24	657
ONTO25	ONTO	24	462
OYDM11	OYDM	12.5	16
PNCK11	PNCK	12.5	99

Table 8 (continued)

Circuit	Substation	Kilovolts (kV)	Customers
PNCK12	PNCK	12.5	2
PRMA12	PRMA	12.5	3
PRMA42	PRMA	34.5	179
RKVL11	RKVL	12.5	24
UNTY11	UNTY	12.5	140
UNTY12	UNTY	12.5	213
VALE11	VALE	12.5	1,024
VALE13	VALE	12.5	536
VALE14	VALE	12.5	326
VALE15	VALE	12.5	454
WESR13	WESR	12.5	186
WESR14	WESR	12.5	29
Total			18,296

* The customer counts represented here are not meant to match those represented on the various other charts/data as a different source was used in order to establish voltage.

Table 9

Five years of line/trench miles data

Year	Overhead (OH) Pole Miles	Underground (UG) Trench Miles	Distribution All Trench Miles	Transmission Line (Structure/Pole) Miles	Customer Counts	OH/UG %
2012	2,112.38	92.65	2,205.03	688.66	18,296.00	87/13
2011	2,112.82	87.77	2,200.59	685.22	19,394.00	87/13
2010	2,114.69	92.13	2,206.82	675.12	19,447.00	87/13
2009	2,120.26	92.11	2,215.54	667.75	19,493.00	88/12
2008	2,343.87	84.36	2,204.62	667.59	19,487.00	88/12

Transmission line miles include some lines that do not directly serve customer load.

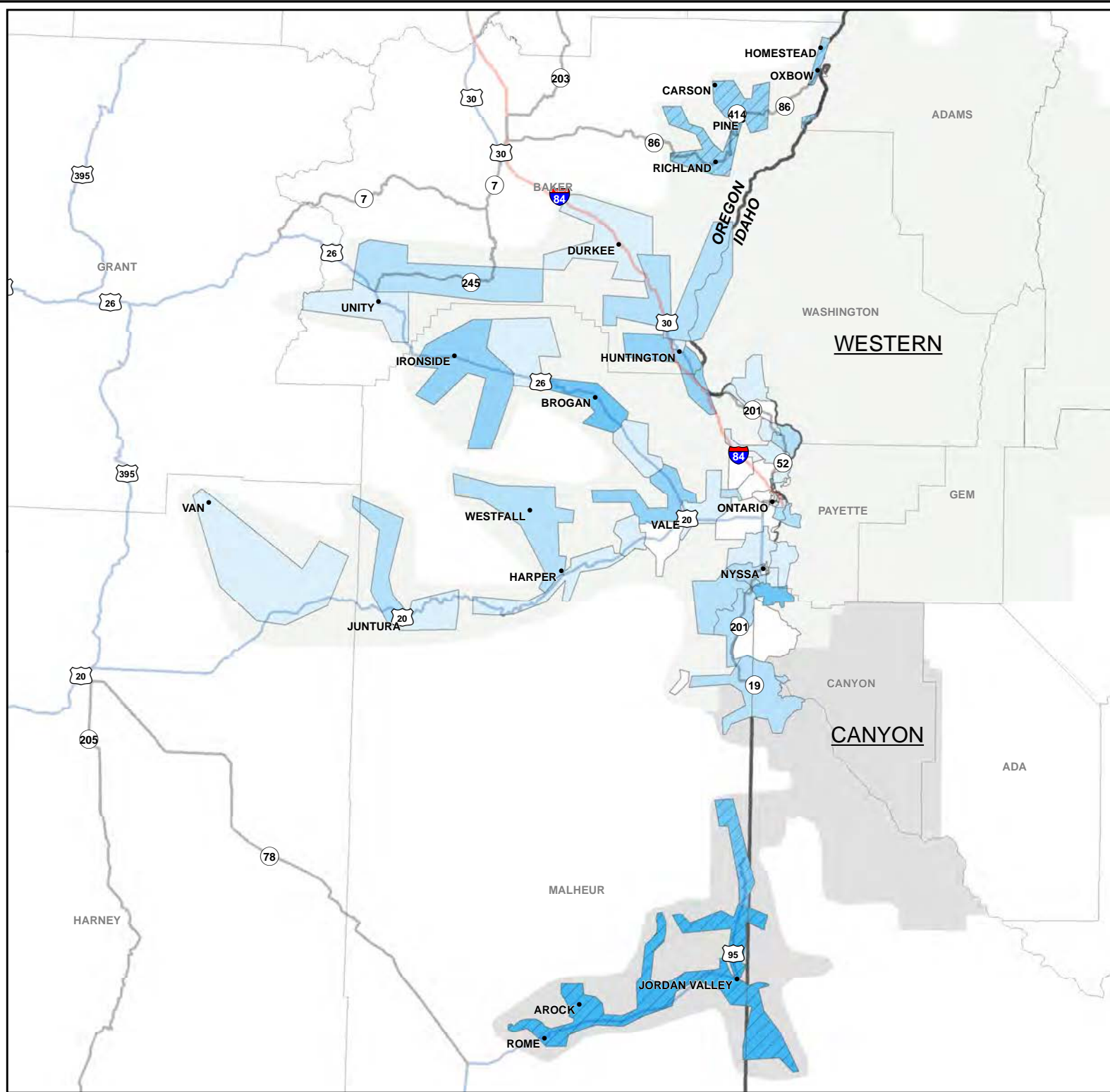
Table 10
MED feeder data summary

MED	Feeder	Area	Causes	Customers	Customer Duration (Min)	Customers Out	Day SAIDI	Day SAIFI	Day CAIDI
02/16/2012	DUKE11	Western	OBPR102 circuit switcher locked out	27	306	2	11.33	0.07	153.00
	HFWY11		Broken pole top clamp on 69kV line pole	740	366,791	1,426	495.66	1.93	257.22
	HFWY12			529	252,700	628	477.69	1.19	402.39
	PNCK11			99	6,155	39	62.17	0.39	157.82
	PNCK12			2	302	2	151.00	1.00	151.00
10/16/2012	JNVY11	Canyon	Loss of supply—transmission	87	122,504	252	1408.09	2.90	486.13
	JNVY12		Pole fire on 69kV	89	96,748	201	1087.06	2.26	481.33
	JNVY31			332	374,192	1,028	1127.08	3.10	364.00
	RKVL11			27	9,927	36	367.67	1.33	275.75

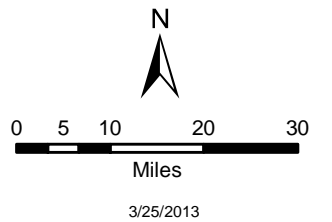
Table 11
MED system summary

MED	Customers	Customer Duration (Min)	Customers Out	Day SAIDI	Day SAIFI	Day CAIDI	TMED Day SAIDI	Sys Count for TMED
02/16/2012	18,609	626,437	2,102	33.66312	0.112956	298.0195	28.05677	18677
10/16/2012	18,609	614,734	1,581	33.03423	0.084959	388.8261	39.32381	18677

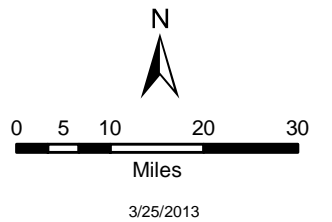
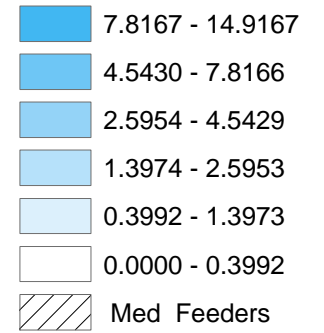
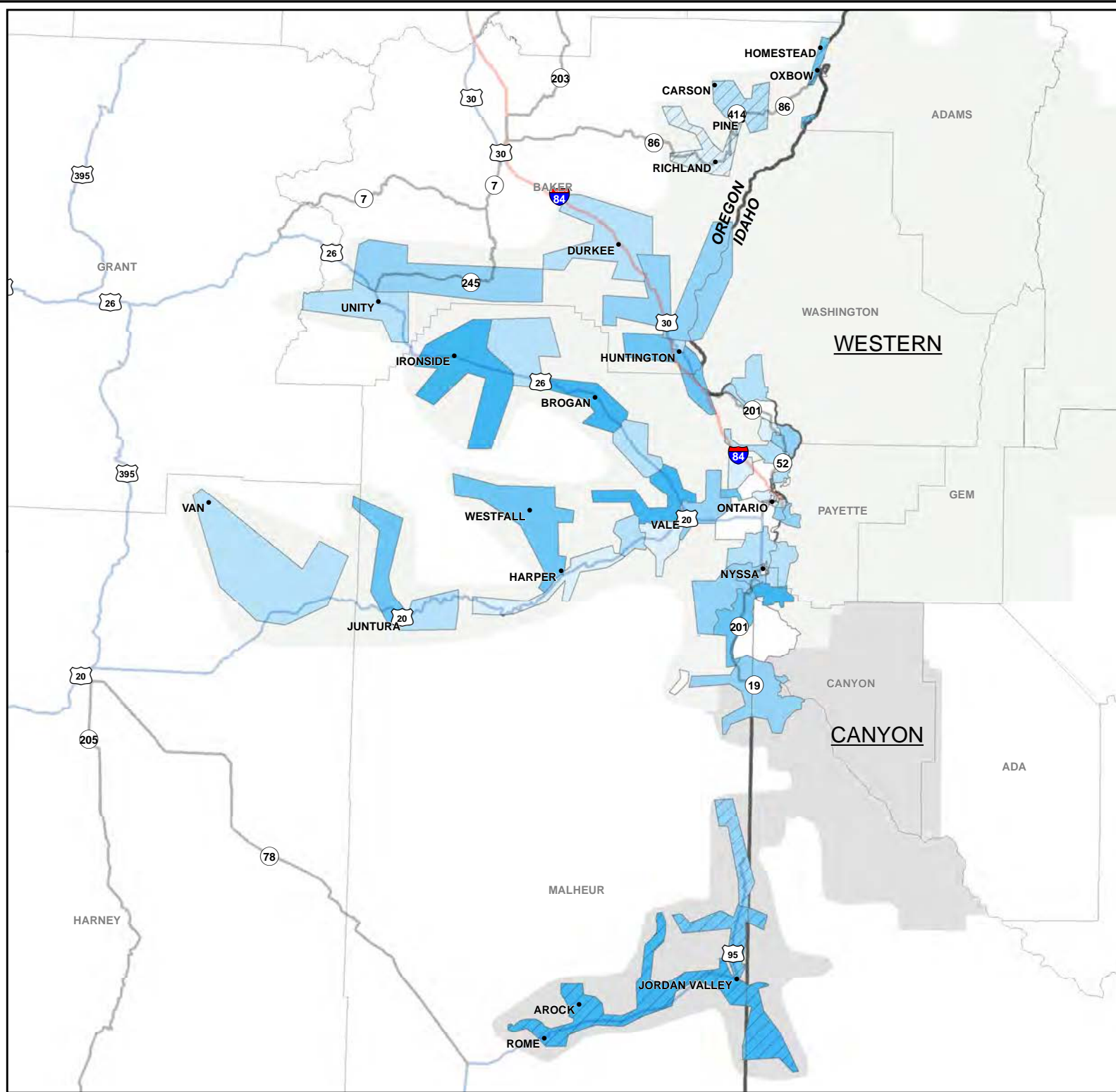
2012 SAIDI With MED OREGON AREA



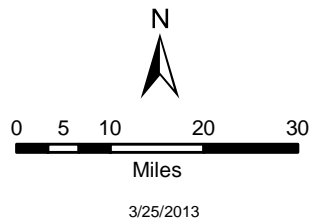
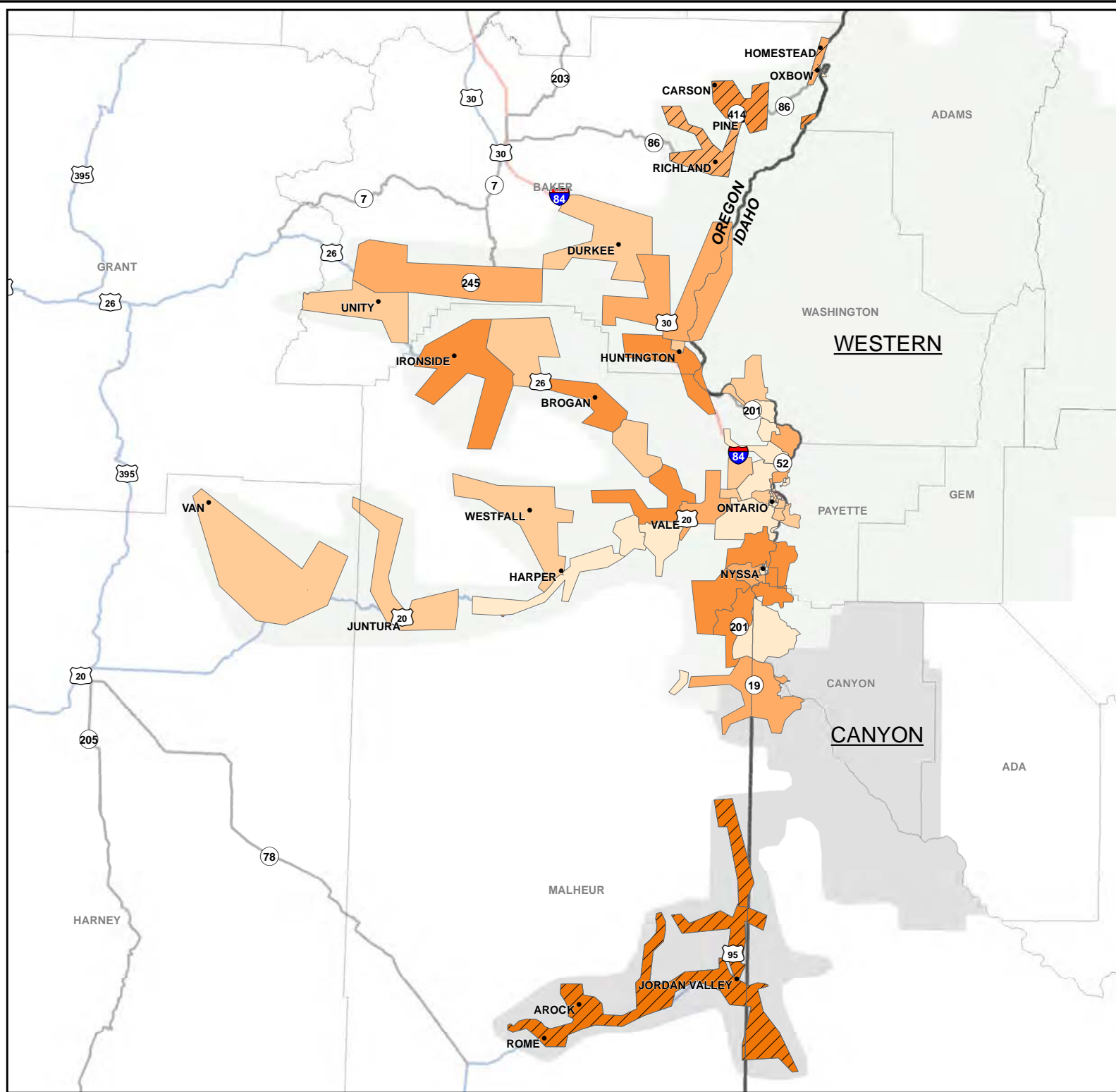
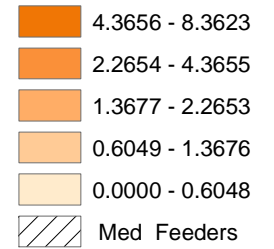
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- 11.1851 - 21.4879
- 6.5334 - 11.1850
- 3.0140 - 6.5333
- 0.9917 - 3.0139
- 0.0000 - 0.9916
- Med Feeders



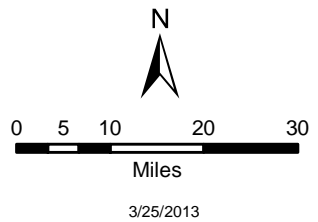
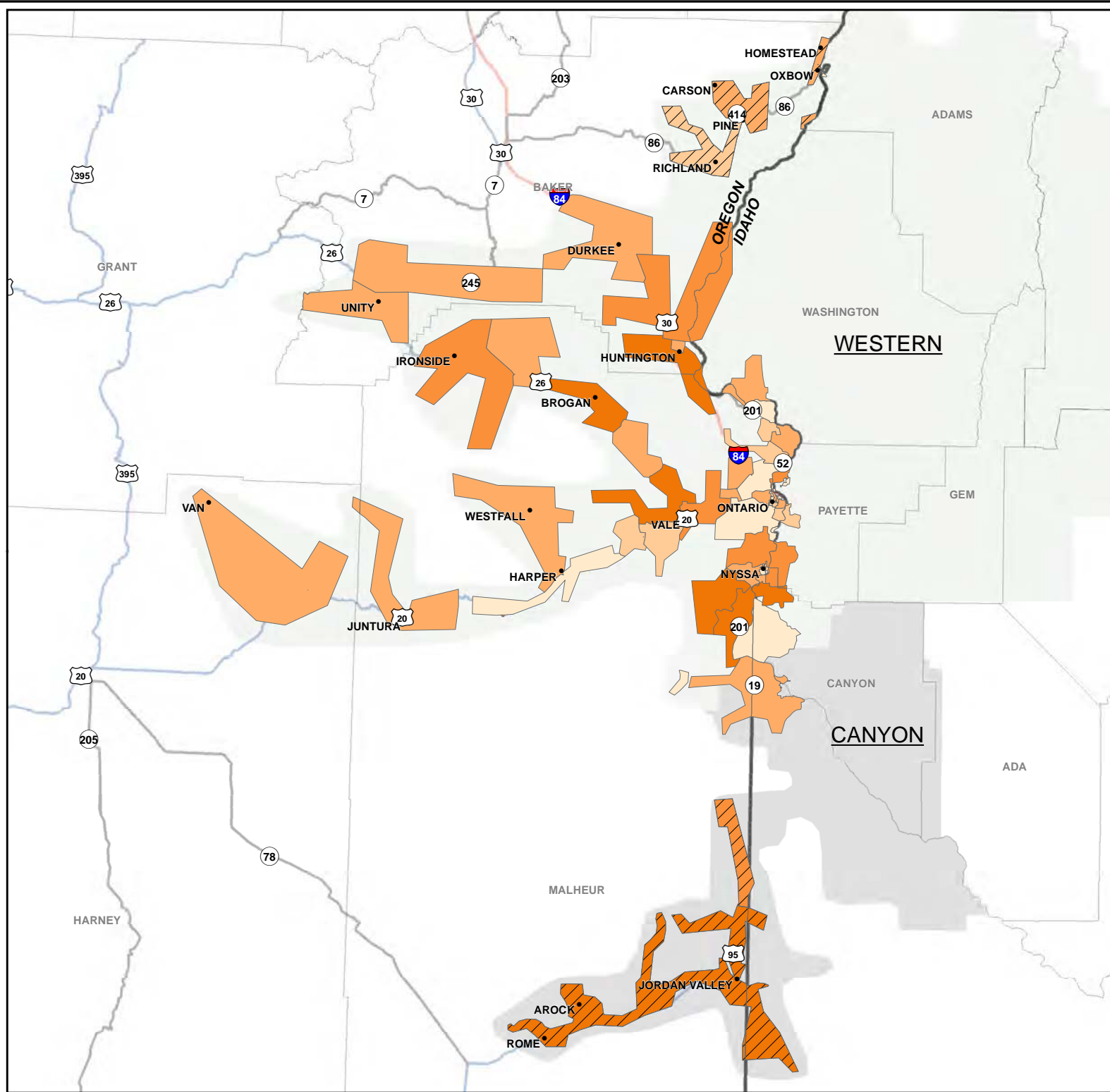
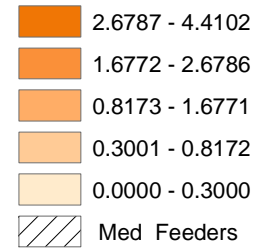
2012 SAIDI Without MED OREGON AREA



2012 SAIFI With MED OREGON AREA



2012 SAIFI Without MED OREGON AREA



2012 MAIFe With MED OREGON AREA

