UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

November 19, 2014

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

MEMORANDUM

SUBJECT: O_3 Monitoring Season Analysis

FROM: Joann Rice (EPA, OAQPS, AQAD, AAMG)

TO: O_3 NAAQS Review Docket, EPA-HQ-OAR-2008-0699

This memo presents the findings from an analysis of daily maximum 8-hour O_3 values to assess whether the current O_3 monitoring seasons are adequate in light of a proposed NAAQS. EPA is proposing to extend the length of the required O_3 monitoring season in some states to be appropriate for the O_3 NAAQS revision finalized in 2008, as well as a final revised O_3 standard, if a revision is finalized in 2015.

Analysis to Determine the Proposed Length of the O_3 Monitoring Season by State

Unlike the ambient monitoring requirements for other criteria pollutants that mandate year-round monitoring, O_3 monitoring is currently only required during the seasons of the year that are conducive to O_3 formation. These seasons vary in length from place to place as the conditions that determine the likely O_3 formation (i.e., seasonally-dependent factors such as ambient temperature, strength of solar insolation, and length of day) differ by location. In some locations, conditions conducive to O_3 formation are limited to the summer months of the year. For example, in states with colder climates such as Montana and South Dakota, the currently required O_3 monitoring season is 4 months long. However, in other states with warmer climates, such as California, Nevada, and Arizona, the currently required O_3 monitoring season is year-round.

An analysis was done to address the issue of whether extensions of the currently required monitoring seasons are appropriate. EPA reviewed the year-round O_3 data for 2010 through 2013. A year-round monitor was identified as "year-round" if it had at least 20 daily observations in all 12 months, for at least 1 year of the 4 year period. The year-round monitor locations are shown in Figure 1. Greater than 50 percent of the monitors (about 800 of the approximately 1500 monitors) with data during 2010-2013 were operating year-round. States currently required to operate year-round were not considered in the analysis. During the 2010-2013 period, all states operated at least one monitor year-round and reported the data to EPA's Air Quality System (AQS). In the analysis, we determined the number of days where one or more monitors had a daily maximum 8-hour O_3 average equal to or above 0.060 ppm in the months outside the currently-required state O_3 monitoring season.[1]

Although we refer to the number of days as "exceedance days" in the analysis, this threshold is simply a conservative benchmark that is below the levels proposed (0.065 to 0.070 ppm) for the revised NAAQS.

[1] See 40 CFR part 58 Appendix D, section 4.1, Table D-3 for a table of required O_3 seasons.

We find that this level, taking into consideration reasonable uncertainty, serves as an appropriate indicator of ambient conditions that may be conducive to the formation of O_3 concentrations that approach or may exceed the proposed 8-hour average range. Proposed revisions for each state's required monitoring season are based on the number of days equal to or above the 0.060 ppm level in and surrounding the state. EPA considered a number of factors including out of season exceedance days either before or after the current O_3 monitoring season, the pattern of exceedance days in the out of season months, and regional consistency. We note that year-to-year variability occurs in seasonal O_3 patterns based on highly variable meteorological conditions which can support the formation of early or late season elevated O_3 concentrations in some years and not others. The EPA believes it is important that O_3 monitors operate during all periods when there is a reasonable possibility of ambient levels approaching the level of the proposed NAAQS.

EPA's analysis found that a total of 43 states experienced at least 1 day greater than or equal to 0.060 ppm outside of the current O_3 season; 21 states had exceedance days only before the required monitoring season; 4 states had exceedance days only after the required monitoring season; and 18 states had exceedance days both before and after the required monitoring season. In some cases, the frequency of exceedance days before the current O_3 season was high, with 4 states (Colorado, South Dakota, Utah, and Wyoming) experiencing between 31 and 230 out-of-season exceedance days from 2010 to 2013 at monitors operating year-round. Although 43 states had at least one exceedance day outside the current monitoring season, changes are proposed for only 33 of those states.

The specific proposed changes to the required state O_3 monitoring seasons are provided in Table 1 and shown in Figure 2. Table 2 provides the supporting details on the number of sites operating year-round by state, the time period of the exceedance days, and number of days with exceedances greater than or equal to 0.060 ppm before and after the current season for each state. The number of days greater than or equal to 0.060 ppm were used to determine the length of the proposed ozone seasons. EPA also considered regional consistency (seasons of surrounding states) in proposing a change to the season. To see the regional consistency of the seasons, see Figure 3 for a map of the proposed seasons color-coded by season. Please also refer to Attachment A for state-by-state maps of ozone monitors and exceedance days, Attachment B for the distribution of exceedance days by month and state, and Attachment C for detailed information regarding the AQS site ID numbers, exceedance dates, and daily 8-hour maximum values (dmax8) by state (Attachment C).

Figure 1. Map of Year-Round Monitors used in this analysis

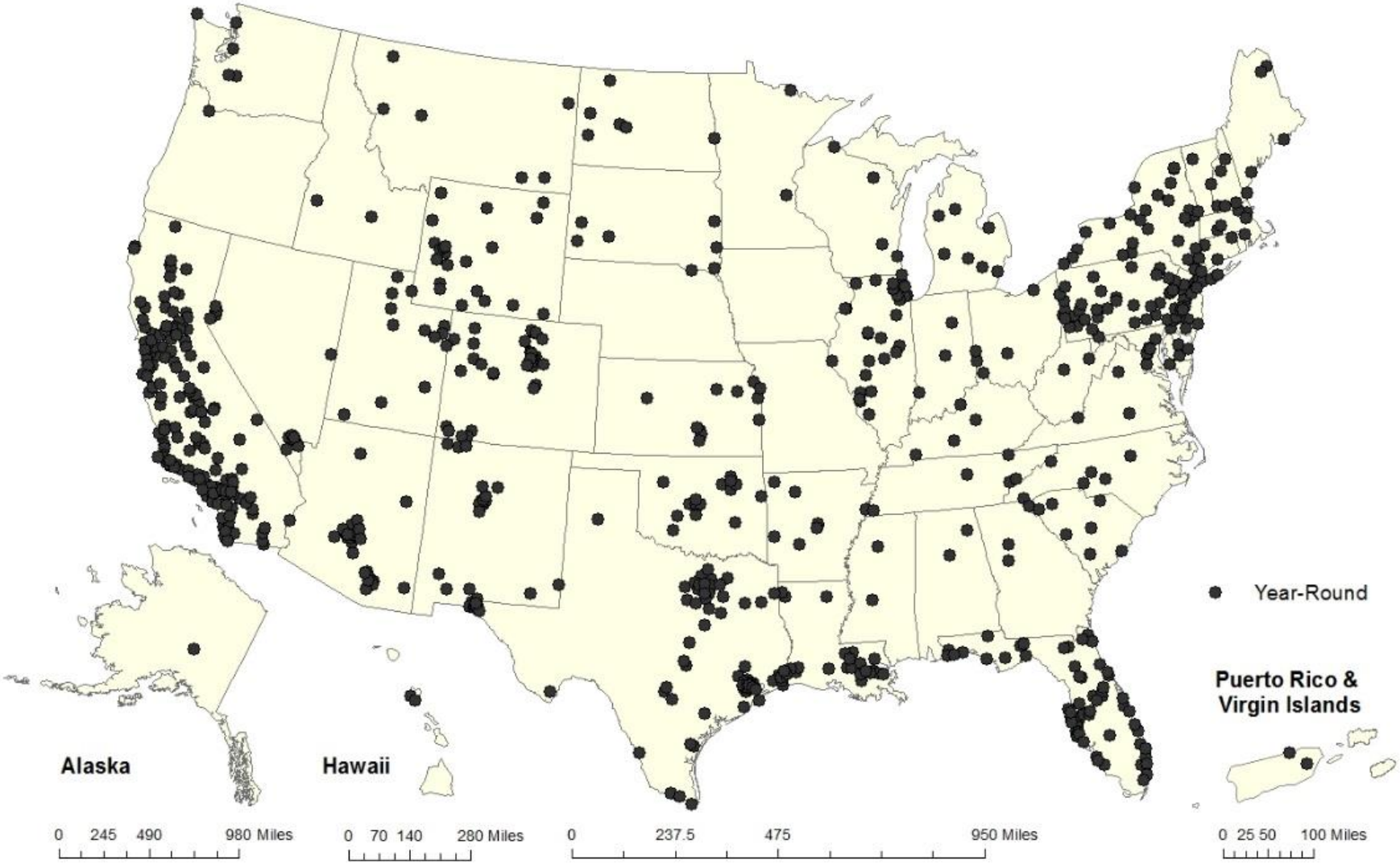


Figure 2. Proposed Changes to Ozone Seasons

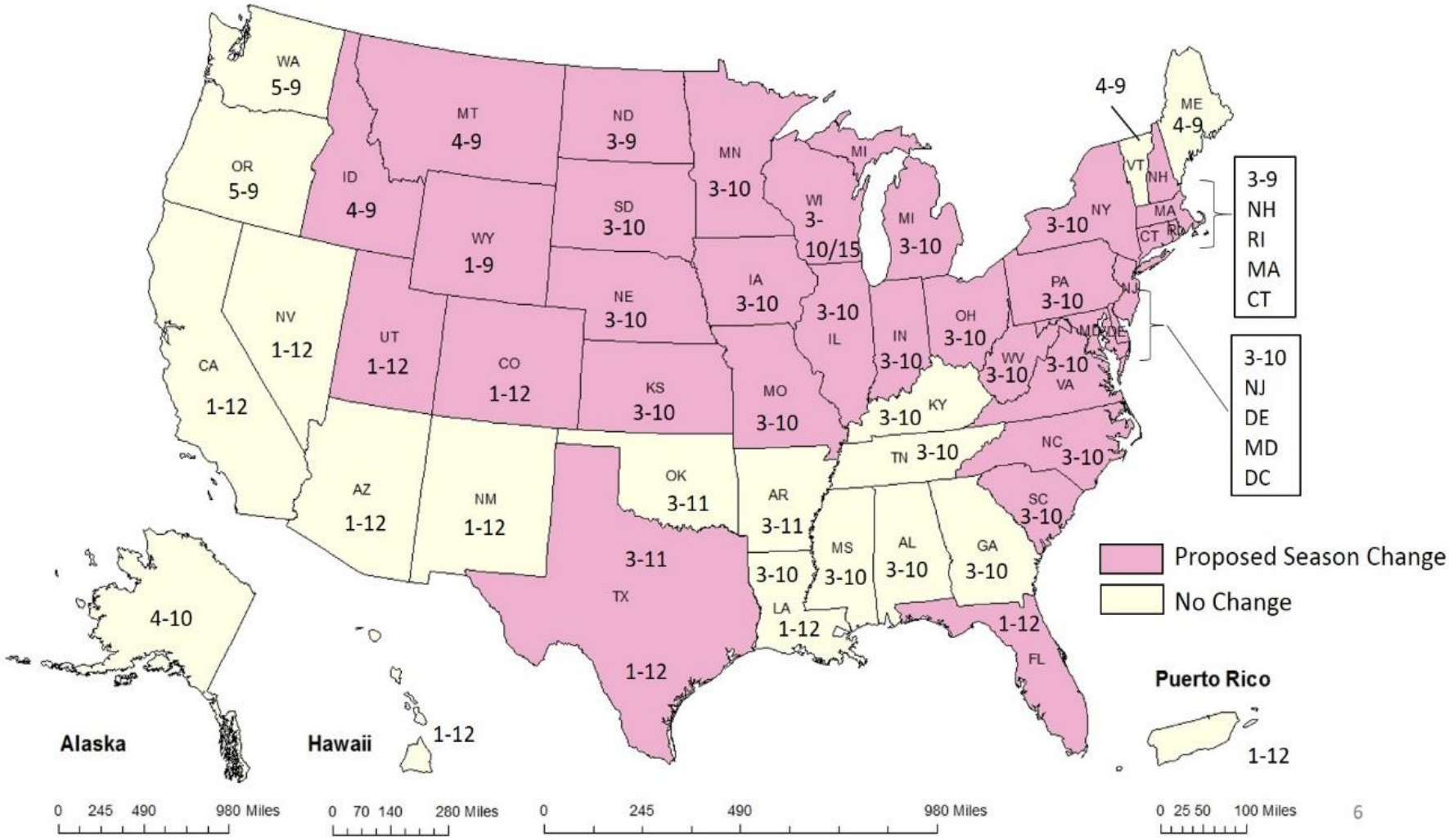


Figure 3. Map of ozone season regional consistency

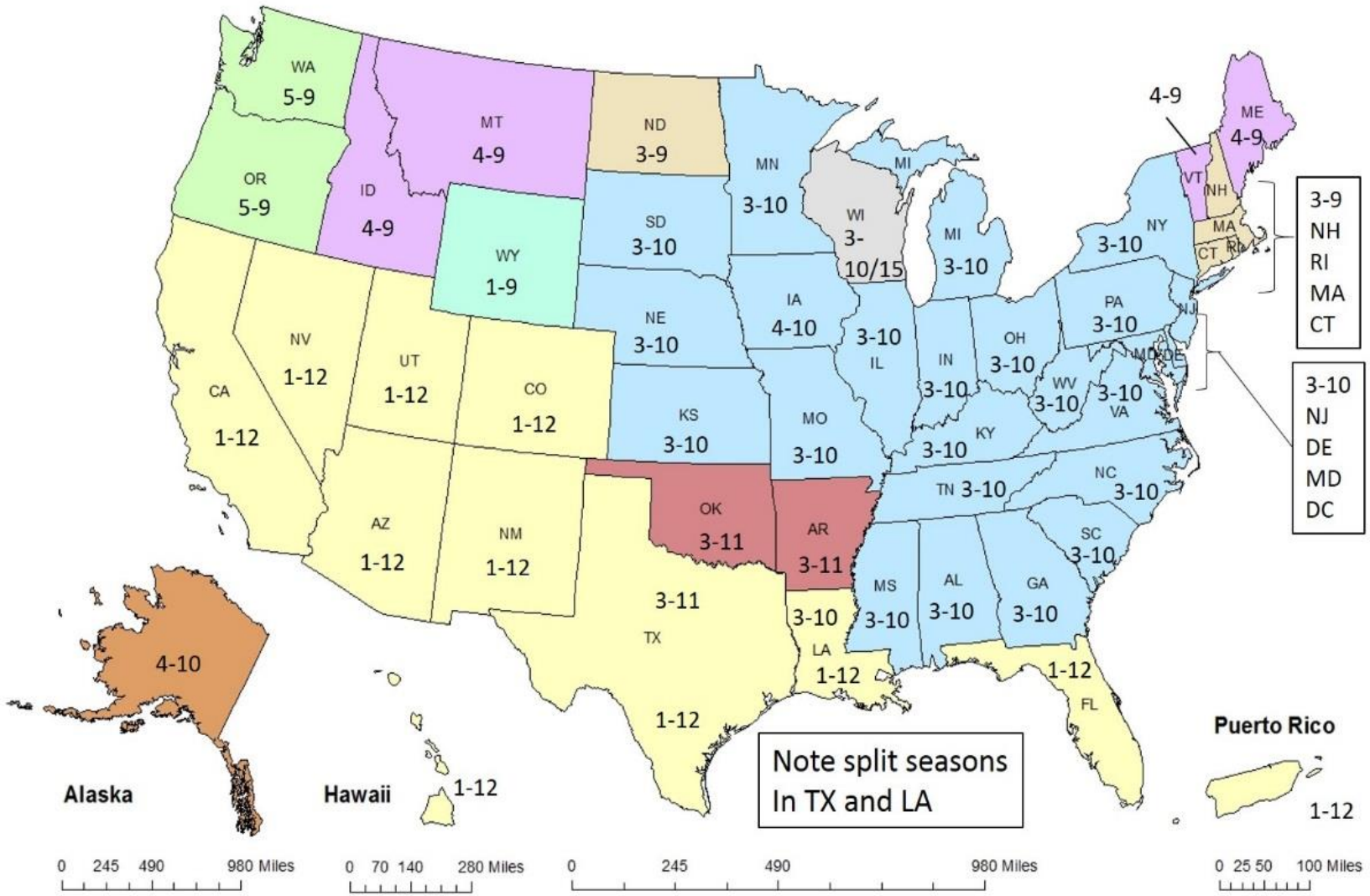


Table 1. Ozone Monitoring Season Length – Proposed Changes*

State Name	Current Ozone Season	Proposed Ozone Season	Net Change (Months)
Alabama	March-October	March-October	0
Alaska	April-October	April-October	0
Arizona	January-December	January-December	0
Arkansas	March-November	March-November	0
California	January-December	January-December	0
Colorado	March-September	January-December	5
Connecticut	April-September	March-September	1
Delaware	April-October	March-October	1
District Of Columbia	April-October	March-October	1
Florida	March-October	January-December	4
Georgia	March-October	March-October	0
Hawaii	January-December	January-December	0
Idaho	May-September	April-September	1
Illinois	April-October	March-October	1
Indiana	April-September	March-October	2
Iowa	April-October	March-October	1
Kansas	April-October	March-October	1
Kentucky	March -October	March -October	0
LA AQCR 106**	January-December	January-December	0
LA AQCR 019, 022**	March -October	March -October	0
Maine	April-September	April-September	0
Maryland	April-October	March-October	1
Massachusetts	April-September	March-September	1
Michigan	April-September	March-October	2
Minnesota	April-October	March-October	1
Mississippi	March-October	March-October	0

Missouri	April-October	March-October	1
Montana	June-September	April-September	2
Nebraska	April-October	March-October	1
Nevada	January-December	January-December	0
New Hampshire	April-September	March-September	1
New Jersey	April-October	March-October	1
New Mexico	January-December	January-December	0
New York	April-October	March-October	1
North Carolina	April-October	March-October	1
North Dakota	May-September	March-September	2
Ohio	April-October	March-October	1
Oklahoma	March-November	March-November	0
Oregon	May-September	May-September	0
Pennsylvania	April-October	March-October	1
Rhode Island	April-September	March-September	1
South Carolina	April-October	March-October	1
South Dakota	June-September	March-October	4
Tennessee	March-October	March-October	0
TX AQCR 106, 153, 213, 214, 216**	January-December	January-December	0
TX AQCR 022, 210, 211, 212, 215, 217, 218**	March -October	March -November	1
Utah	May-September	January-December	7
Vermont	April-September	April-September	0
Virginia	April-October	March-October	1
Washington	May-September	May-September	0
West Virginia	April-October	March-October	1
Wisconsin	April 15-October 15	March-October 15	1.5
Wyoming	April-October	January-September	2

American Samoa	January-December	January-December	0
Guam	January-December	January-December	0
Puerto Rico	January-December	January-December	0
Virgin Islands	January-December	January-December	0

*** EPA is proposing to require O_3 monitors at NCore to operate year-round.**

**** AQCR – Air Quality Control Region**

Table 2. Number of Days ≥ 0.060 ppm Before and After the Current Ozone Season by State

State Monitoring Info								Days ≥ 0.060ppm Before Season, 2010-2013		Days ≥ 0.060 ppm After Season, 2010-2013	
State FIPS	State Name	Current Ozone Season	Proposed Ozone Season	Net Change (Months)	No. Ozone Sites	No. Year Round	% Year Round	No. days	Time Period	No. days	Time Period
1	Alabama	March-October	March-October	0	26	2	8	1	2/17	1	11/12
2	Alaska	April-October	April-October	0	5	2	40				
4	Arizona*	January-December	January-December	0	40	35	73				
5	Arkansas	March-November	March-November	0	10	9	90	1	2/13		
6	California*	January-December	January-December	0	201	172	86				
8	Colorado	March-September	January-December	5	53	34	64	60	1/7-2/28	19	10/1-12/31
9	Connecticut	April-September	March-September	1	13	3	23	3	3/19 -3/21	2	10/12 - 10/13
10	Delaware	April-October	March-October	1	7	6	86	4	3/10-3/25		
11	District Of Columbia	April-October	March-October	1	4	3	75	3	3/19-3/21		
12	Florida	March-October	January-December	4	62	59	95	13	1/24-2/28	5	11/1-11/23
13	Georgia	March-October	March-October	0	21	2	10	2	2/14-2/17		
15	Hawaii*	January-December	January-December	0	2	2	100				
16	Idaho	May-September	April-September	1	6	2	33	8	4/4-4/24	1	10/2
17	Illinois	April-October	March-October	1	44	26	59	6	2/13, 3/15-3/31	1	11/2
18	Indiana	April-September	March-October	2	46	3	7	2	3/21, 3/31	9	10/5-10/17
19	Iowa**	April-October	March-October	1	15	1	7				
20	Kansas	April-October	March-October	1	11	11	100	17	2/12-3/31	1	11/1
21	Kentucky	March -October	March -October	0	32	5	16			3	11/11-11/13
22	N. Louisiana AQCR 019, 022	March-October	March-October	0	3	3	100			1	11/1
22	S. Louisiana AQCR 106*	January-December	January-December	0	24	21	88				
23	Maine***	April-September	April-September	0	19	5	26	3	3/19, 3/12, 3/31		
24	Maryland	April-October	March-October	1	21	6	29	10	2/17, 3/10-3/30		
25	Massachusetts	April-September	March-September	1	19	5	26	5	3/7-3/31	2	10/9-10/10
26	Michigan	April-September	March-October	2	30	7	23	5	3/9-3/31	6	10/6-10/11
27	Minnesota	April-October	March-October	1	18	2	11	5	3/7-3/30		
28	Mississippi	March-October	March-October	0	12	2	17	1	2/13	1	11/2
29	Missouri**	April-October	March-October	1	25	2	8	2	3/3, 3/11		
30	Montana	June-September	April-September	2	9	7	78	9	4/20-5/17		
31	Nebraska	April-October	March-October	1	7	2	29	4	3/24-3/29		
32	Nevada*	January-December	January-December	0	37	16	43				
33	New Hampshire	April-September	March-September	1	13	7	54	13	2/17, 2/18, 3/11-3/31	6	10/1-10/25
34	New Jersey	April-October	March-October	1	17	14	82	3	3/19-3/21		
35	New Mexico*	January-December	January-December	0	27	24	89				
36	New York	April-October	March-October	1	38	34	89	16	2/17, 3/7-3/30		
37	North Carolina	April-October	March-October	1	49	7	14	17	2/17, 3/8-3/30		
38	North Dakota	May-September	March-September	2	9	8	89	12	3/8-4/23	1	10/5
39	Ohio	April-October	March-October	1	53	6	11	13	2/17, 3/7-3/31	2	11/10, 11/13
40	Oklahoma	March-November	March-November	0	33	16	48	1	1/29		
41	Oregon	May-September	May-September	0	10	1	10				
42	Pennsylvania	April-October	March-October	1	59	50	85	14	3/7-3/31		
44	Rhode Island	April-September	March-September	1	3	1	33	3	3/19, 3/20, 3/31		
45	South Carolina	April-October	March-October	1	24	9	38	23	2/21, 3/3-3/31		
46	South Dakota	June-September	March-October	4	7	7	100	31	3/5-5/30	6	10/3-10/6
47	Tennessee***	March-October	March-October	0	27	5	19	6	2/13-2/21	4	11/1-11/13
48	N. Texas AQCR 022, 210, 211, 212, 215, 217, 218	March-October	March-November	1	36	31	86			3	11/1-11/8
48	S. Texas AQCR 106, 153, 213, 214, 216*	January-December	January-December	0	47	44	94				
49	Utah	May-September	January-December	7	30	13	43	230	1/1-4/30	19	10/1-12/31
50	Vermont	April-September	April-September	0	2	2	100	1	3/31		
51	Virginia	April-October	March-October	1	30	4	13	13	2/17, 3/8-3/30		
53	Washington	May-September	May-September	0	18	5	28			2	10/27, 10/28
54	West Virginia**	April-October	March-October	1	10	2	20	2	3/20, 3/21		
55	Wisconsin	April 15-October 15	March-October 15	1.5	37	5	14	15	3/5-4/14		
56	Wyoming	April-October	January-September	2	34	24	71	55	1/29-3/31		
72	Puerto Rico*	January-December	January-December	0	2	2	100				

* Current ozone season is year-round. State not included in the ozone season analysis.

**Changed for Regional Consistency

***No Change for Regional Consistency

Attachment A

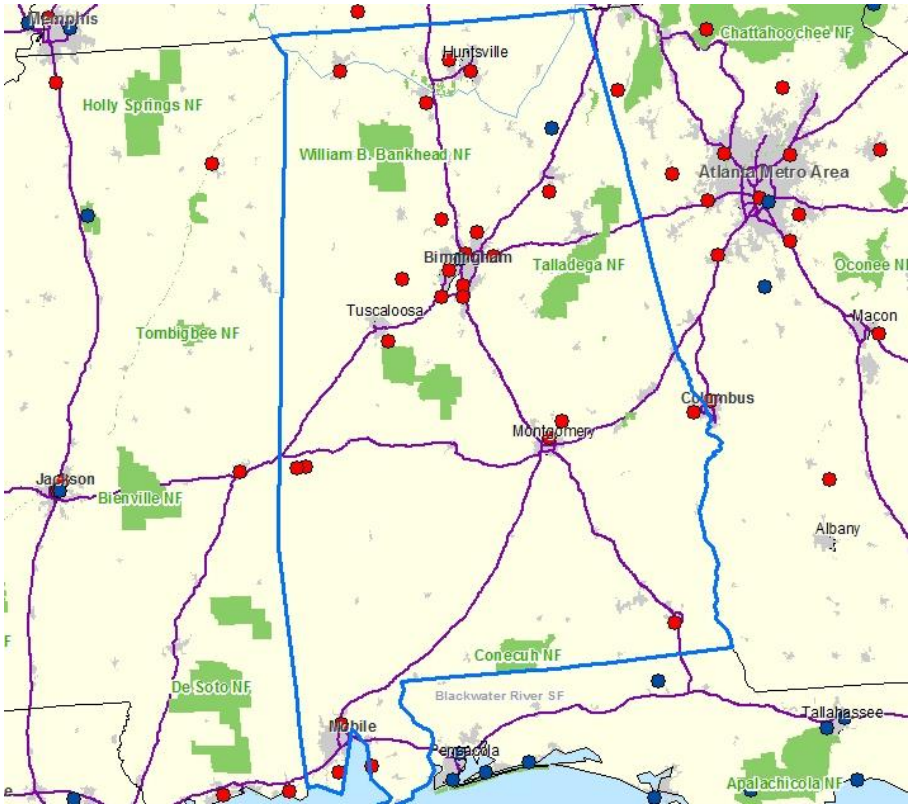
State-by-State Maps and Number of Days ≥0.060 ppm

The ambient ozone data in this document were compiled from analyses used in support of the proposed rule for the O_3 NAAQS: Revisions to the Length of the Required O_3 Monitoring Seasons

Docket ID No. EPA-HQ-OAR-2008-0699

Alabama

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓2 of 26 ozone sites operated year-round (8%)
- ✓Exceedance days during 2005-2006: 0 (B), 0(A)
- ✓Exceedance days during 2007-2009: 1 (B), 1 (A): 2/28; 11/5
- ✓Exceedance days during 2010-2013: 1 (B), 1 (A)
- ✓Period of exceedances: 2/17, 11/12
- ✓<u>Notes:</u>
  - ✓No changes proposed

● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Alaska

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓2 of 5 ozone site operated year-round (40%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓<u>Notes:</u>
  - ✓No changes proposed

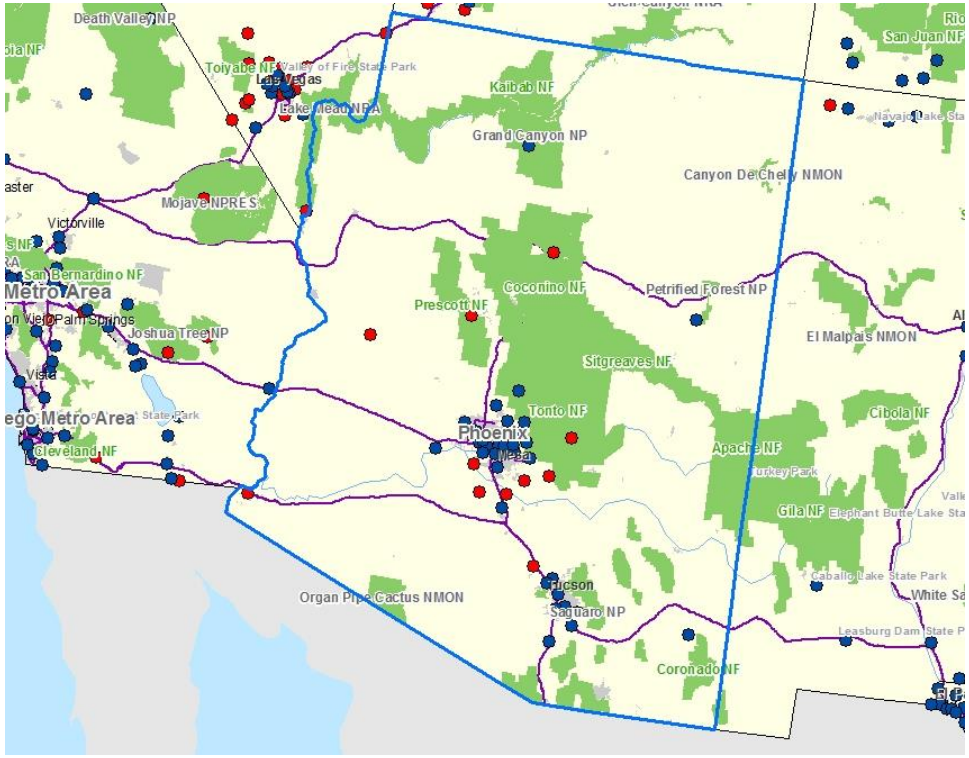
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Arizona

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

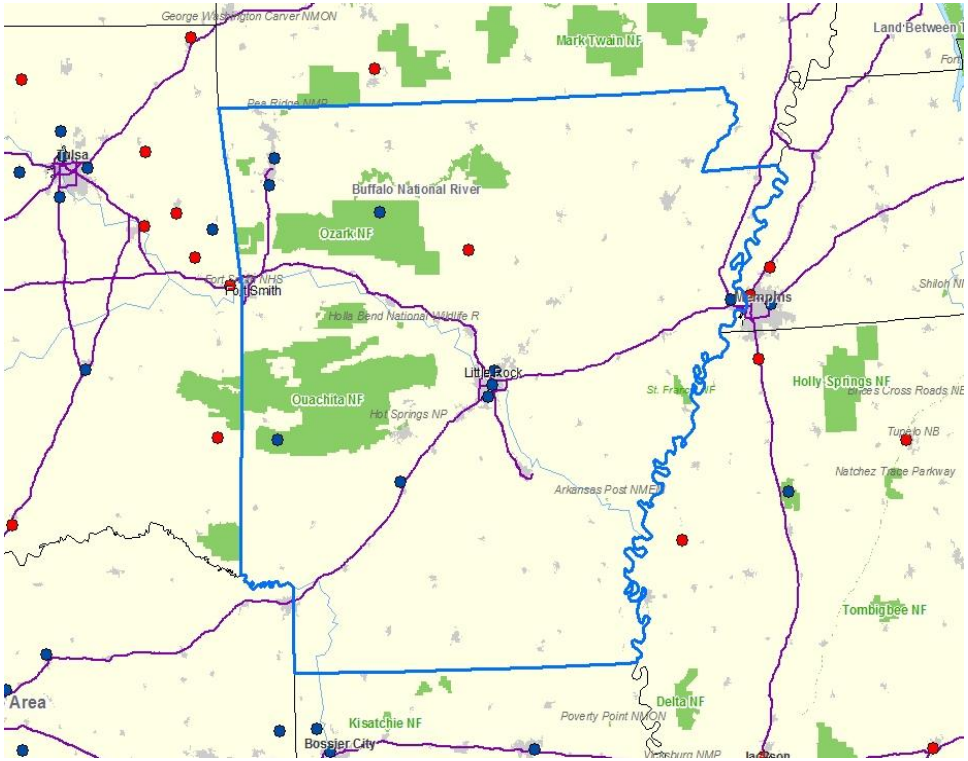
[Based on data completeness during 2010 – 2013]

- ✓35 of 48 ozone sites operated year-round (73%) due to Region 9 granted waivers
- ✓Exceedance days during 2005-2006: 2 (B), 0 (A): 3/5, 3/25
- ✓Exceedance days during 2007-2009: 5 (B), 0 (A): 3/10-3/19
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓Current analysis did not consider waivers
  - ✓Final rule will moot the current waivers

Arkansas

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

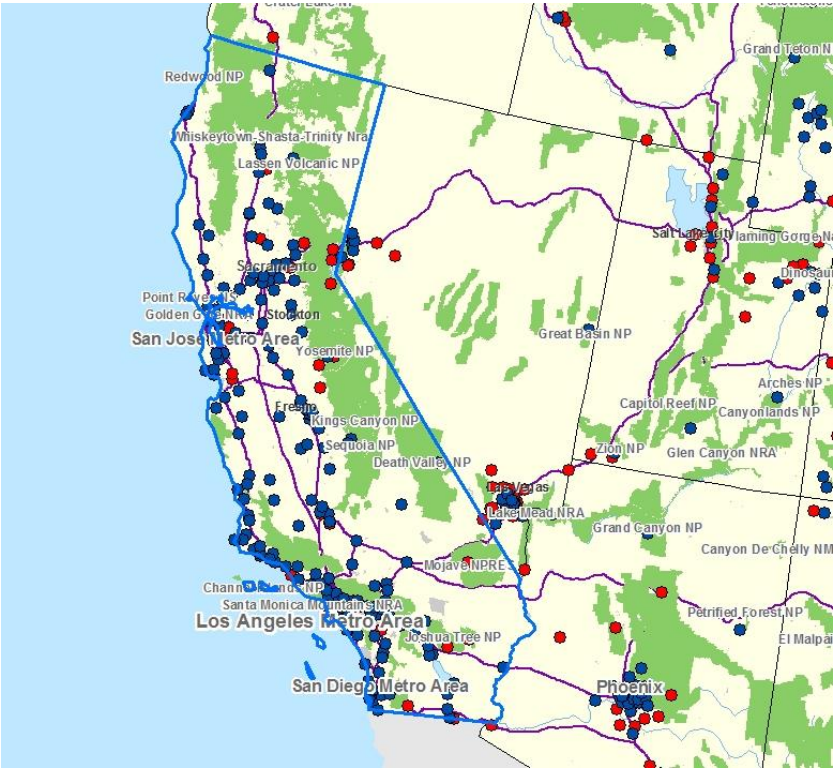
[Based on data completeness during 2010 – 2013]

- ✓9 of 10 ozone sites operated year-round (90%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 2 (B), 0 (A): 2/21, 2/28
- ✓ Exceedance days during 2010-2013: 1 (B), 0 (A)
- ✓Period of exceedances: 2/13
- ✓<u>Notes:</u>
  - ✓No changes proposed

California

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

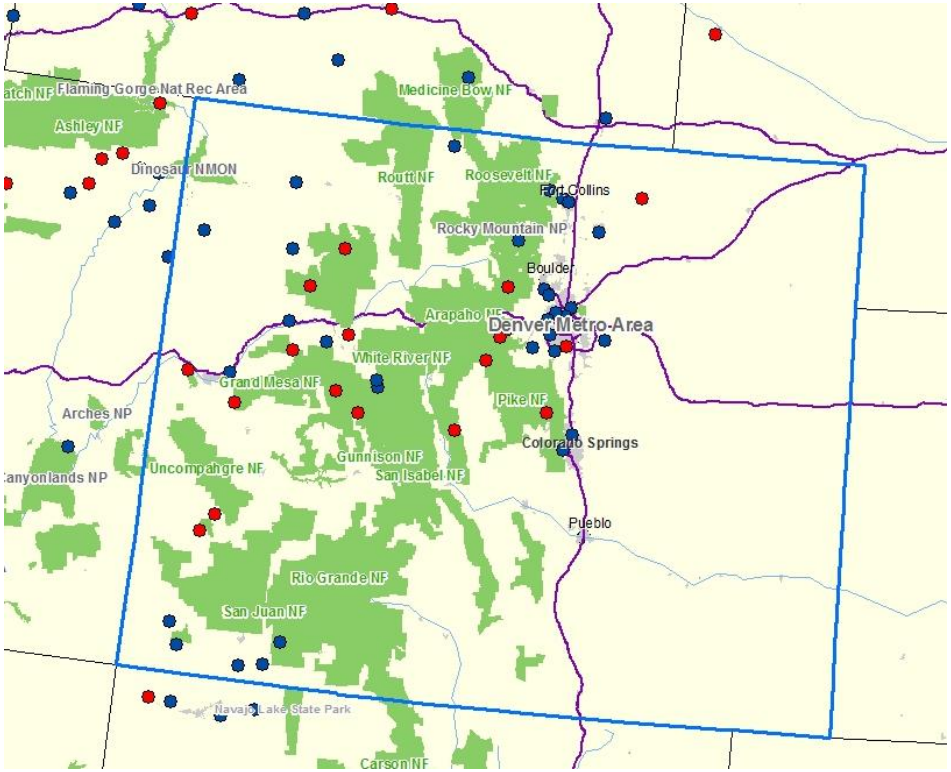
[Based on data completeness during 2010 – 2013]

- ✓172 of 201 ozone sites operated year-round (85%) due to Region 9 granted waivers
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓Current analysis did not consider waivers
  - ✓Final rule will revoke the current waivers

Colorado

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

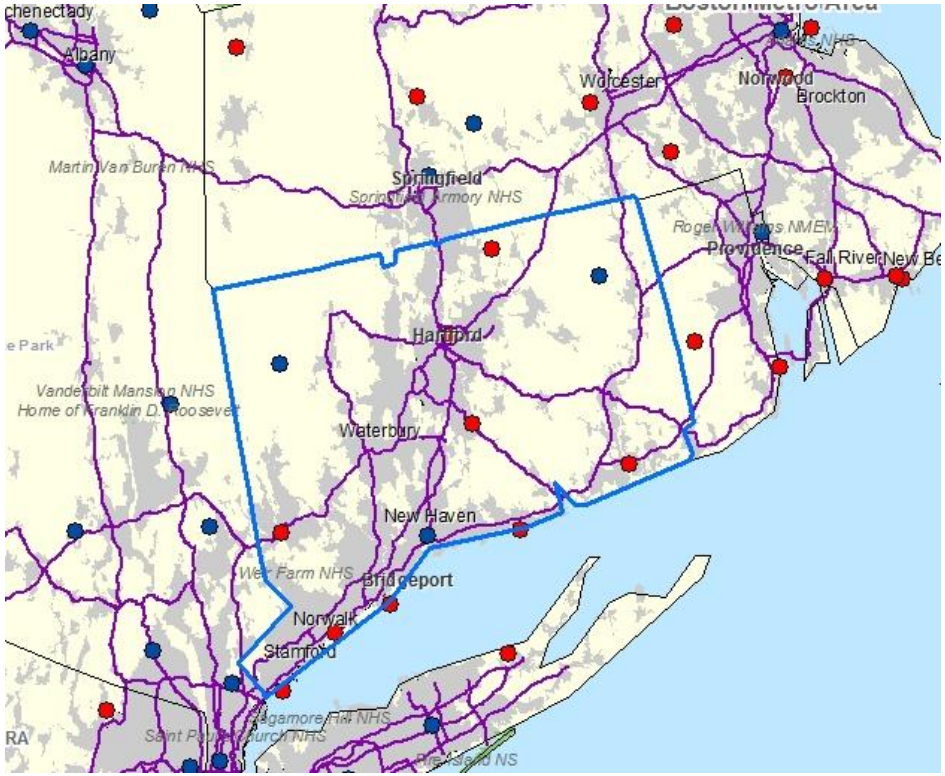
[Based on data completeness during 2010 – 2013]

- ✓34 of 53 ozone sites operated year-round (64%)
- ✓Exceedance days during 2005-2006: 3 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 8 (B), 3 (A): 2/16 – 11/27
- ✓Exceedance days during 2010-2013: 60 (B), 19 (A)
- ✓ Period of exceedances: 1/7 – 2/28, 10/1 – 12/31
- ✓<u>Notes:</u>
  - ✓Propose year-round monitoring season
  - ✓Region 8 supported year-round monitoring season with waivers in 2009 proposal

Connecticut

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

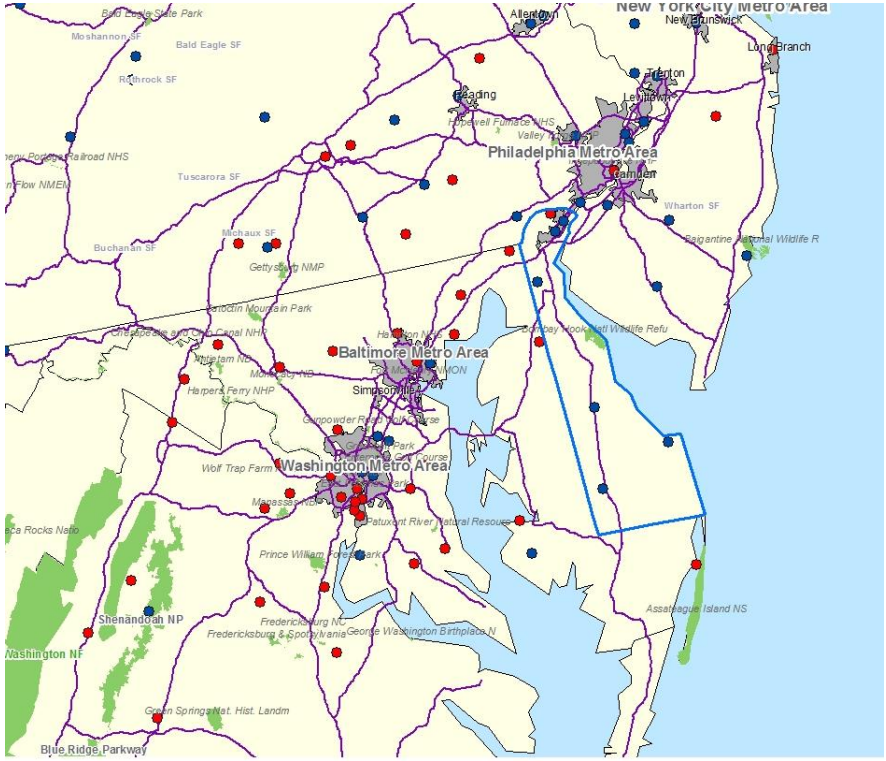
[Based on data completeness during 2010 – 2013]

- ✓3 of 13 ozone sites operated year-round (23%)
- ✓Exceedance days during 2005-2006: 2 (B), 2 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 3 (A): 10/4 – 10/6
- ✓Exceedance days during 2010-2013: 3 (B), 2 (A)
- ✓ Period of exceedances: 3/19 – 3/21, 10/12 – 10/13
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Year-round data limited
  - ✓Consistency with RI and MA considered

Delaware

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓6 of 7 ozone sites operated year-round (86%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 3/14
- ✓ Exceedance days during 2010-2013: 4 (B), 0 (A)
- ✓ Period of exceedances: 3/10 – 3/25
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Areal coverage is small
  - ✓Consistency with NJ, PA, VA, MD

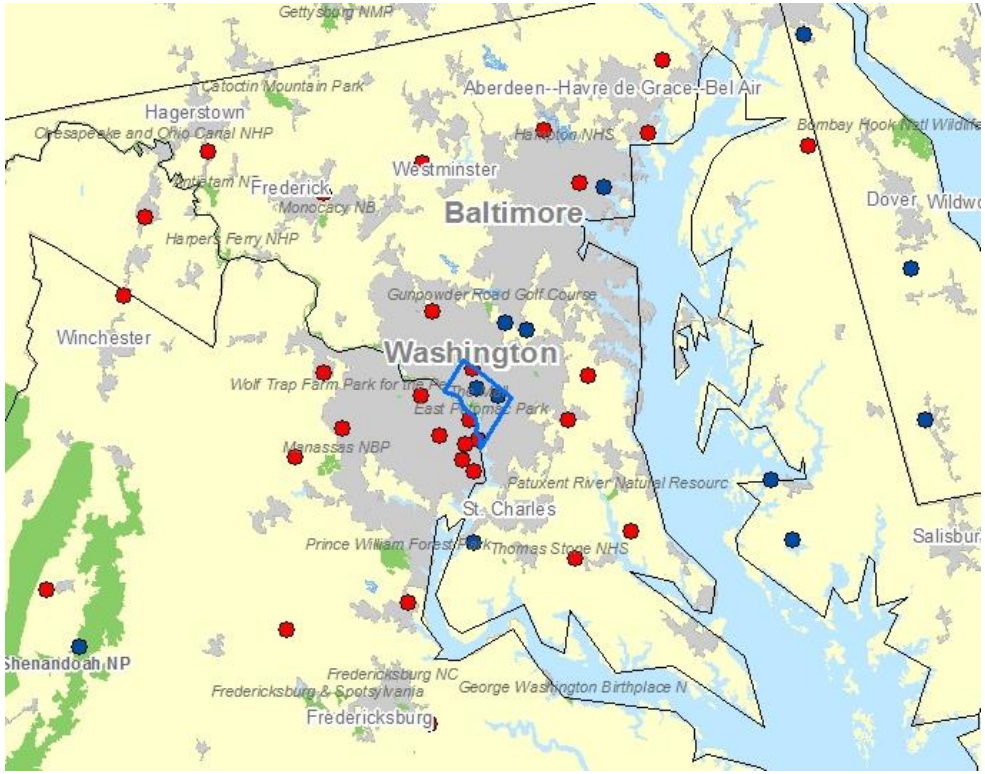
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

District of Columbia

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

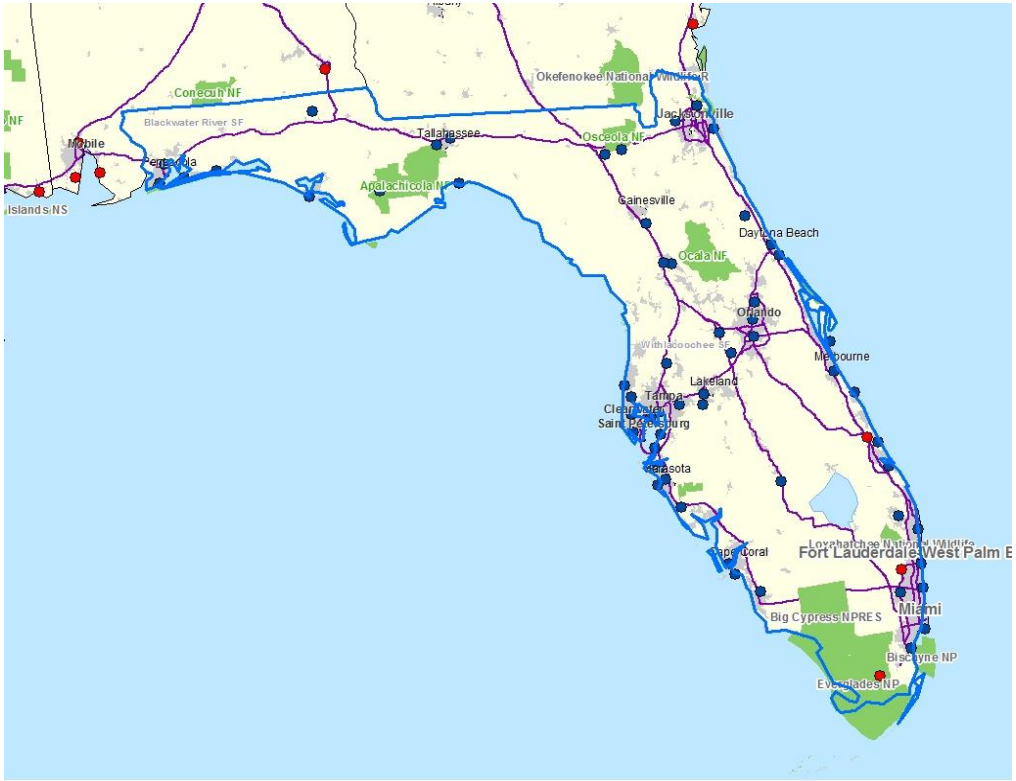
[Based on data completeness during 2010 – 2013]

- ✓3 of 4 ozone sites operated year-round (75%)
- ✓Exceedance days during 2005-2006: 2 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 3 (B), 0 (A)
- ✓ Period of exceedances: 3/19 – 3/21
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Areal coverage is small
  - ✓Consistency with MD, VA, DE

Florida

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

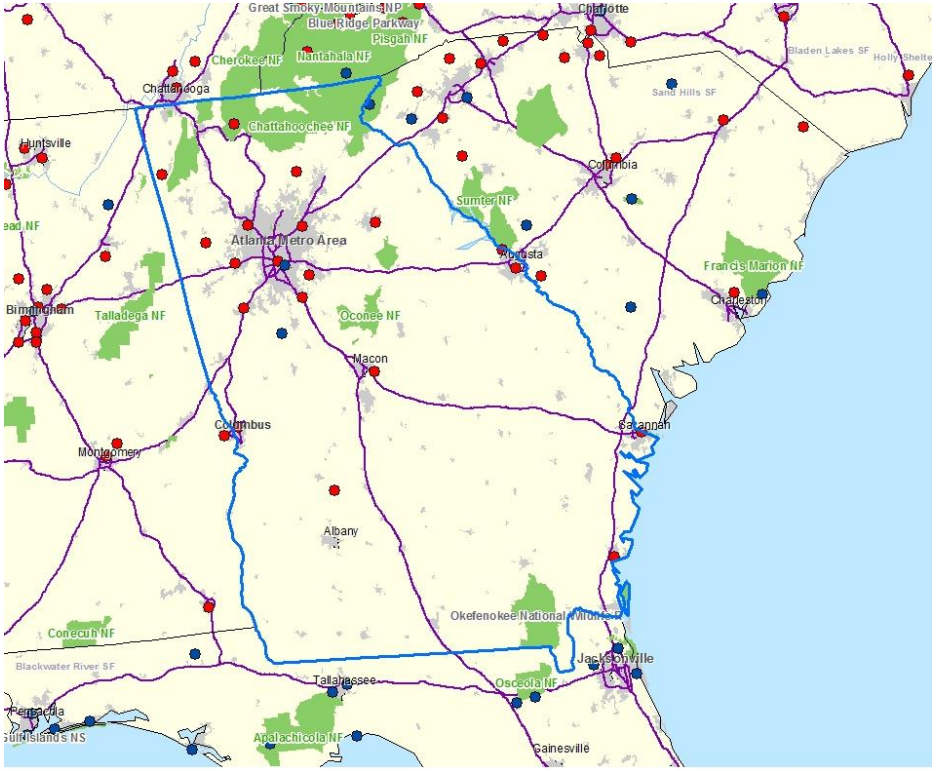
[Based on data completeness during 2010 – 2013]

- ✓59 of 62 ozone sites operated year-round (95%)
- ✓Exceedance days during 2005-2006: 6 (B), 7 (A)
- ✓Exceedance days during 2007-2009: 14 (B), 12(A): 1/4 – 11/28
- ✓Exceedance days during 2010-2013: 13 (B), 5 (A)
- ✓ Period of exceedances: 1/24 – 2/28, 11/1 – 11/23
- ✓<u>Notes:</u>
  - ✓Propose adding 4 months for year-round monitoring season
  - ✓Vast majority of "before" exceedances occurred in February and no "after" exceedances in December

Georgia

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

- ✓2 of 21 ozone sites operated year-round (10%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓ Exceedance days during 2010-2013: 2 (B), 0 (A)
- ✓Period of exceedances: 2/14, 2/17
- ✓<u>Notes:</u>
  - ✓No changes proposed
  - ✓Year-round data limited
  - ✓Consistency with AL, SC

Hawaii

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓2 of 2 ozone sites operated year-round (100%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓ Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓No changes proposed

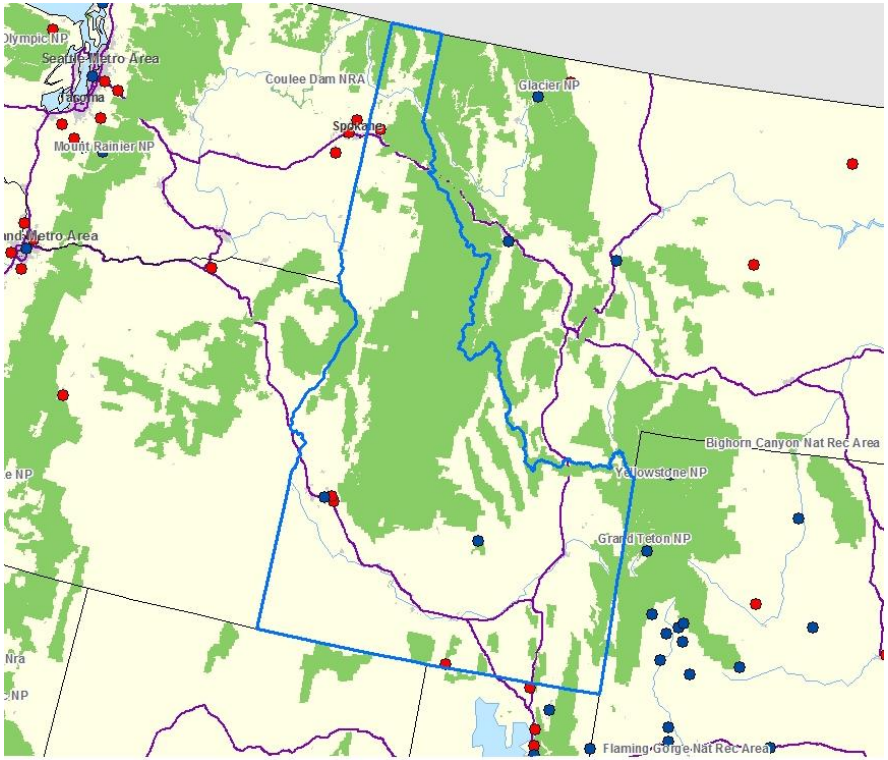
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Idaho

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

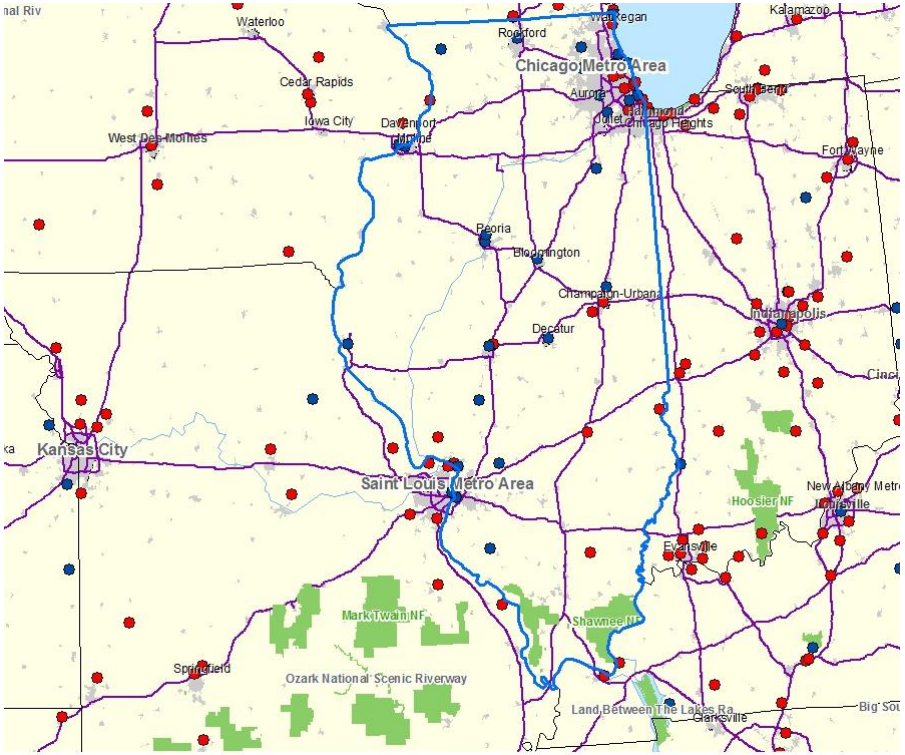
[Based on data completeness during 2010 – 2013]

- ✓2 of 6 ozone sites operated year-round (33%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 4/27
- ✓ Exceedance days during 2010-2013: 8 (B), 1 (A)
- ✓Period of exceedances: 4/4 – 4/24, 10/2
- ✓<u>Notes:</u>
  - ✓Propose adding April
  - ✓Year-round data limited
  - ✓Consistency with MT

Illinois

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓26 of 44 ozone sites operated year-round (59%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 3/17

Exceedance days during 2010-2013: 6 (B), 1 (A)

- ✓Period of exceedances: 2/13, 3/15 – 3/31, 11/2
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistent with surrounding states

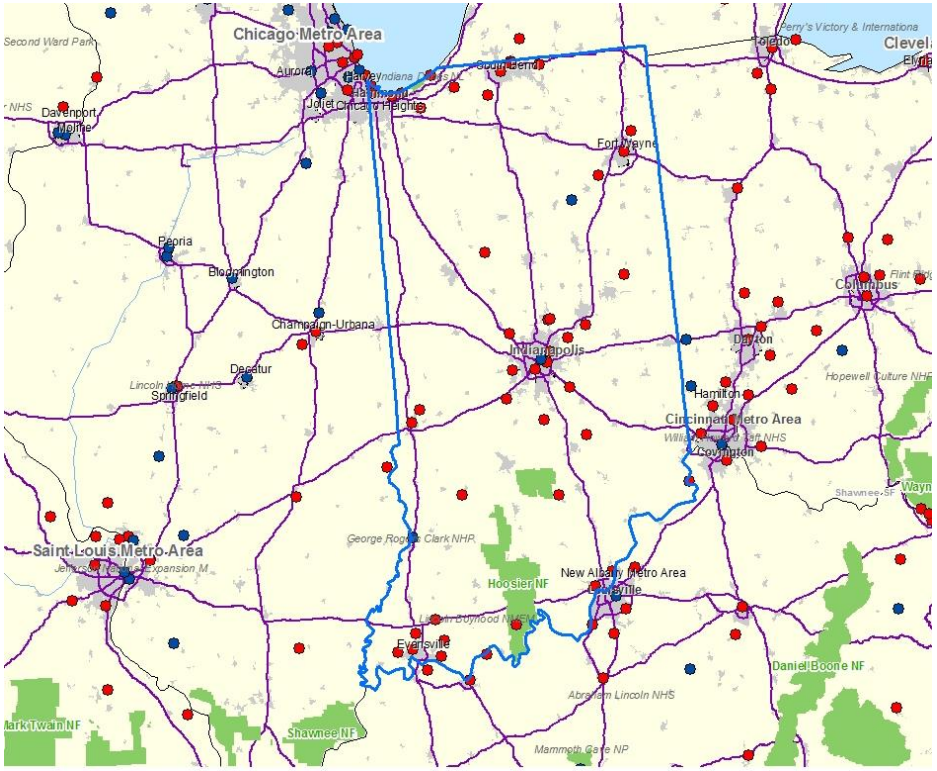
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Indiana

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

- ✓3 of 46 ozone sites operated year-round (7%)
- ✓Exceedance days during 2005-2006: 0 (B), 2 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 5 (A): 10/1 – 10/8
- ✓Exceedance days during 2010-2013: 2 (B), 9 (A)

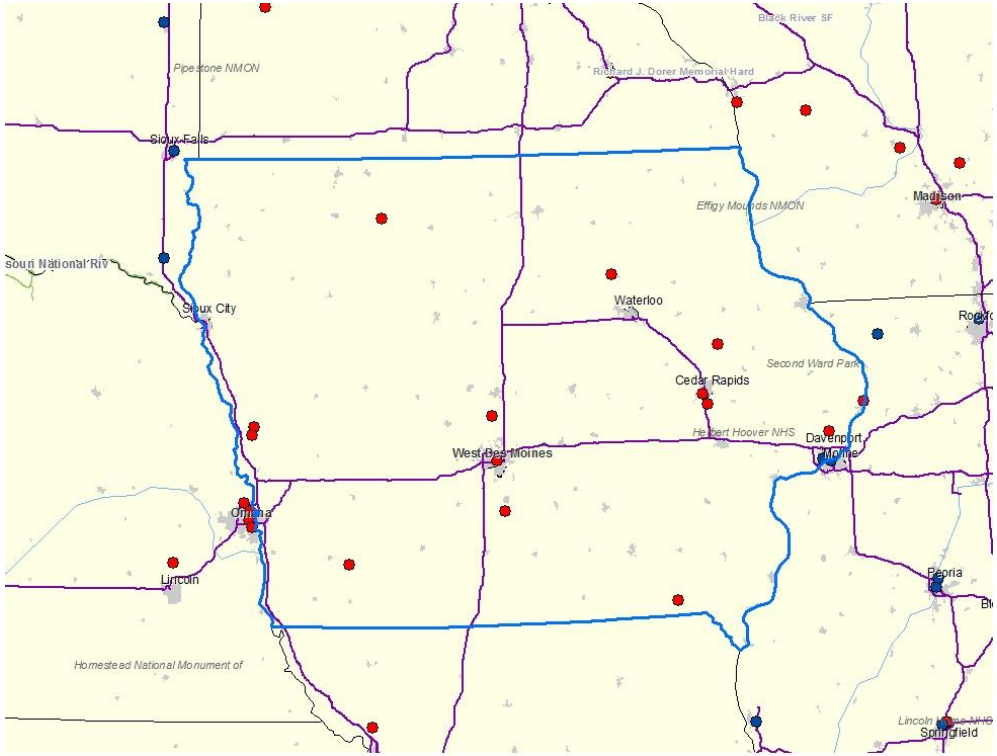
Period of exceedances: 3/21, 3/31, 10/5 – 10/17

- ✓<u>Notes:</u>
  - ✓Proposed adding March and Oct.
  - ✓Year-round data limited
  - ✓Consistent with IL, KY, OH, MI

Iowa

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓1 of 15 ozone sites operated year-round (7 %)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Year-round data limited
  - ✓Consistent with surrounding states

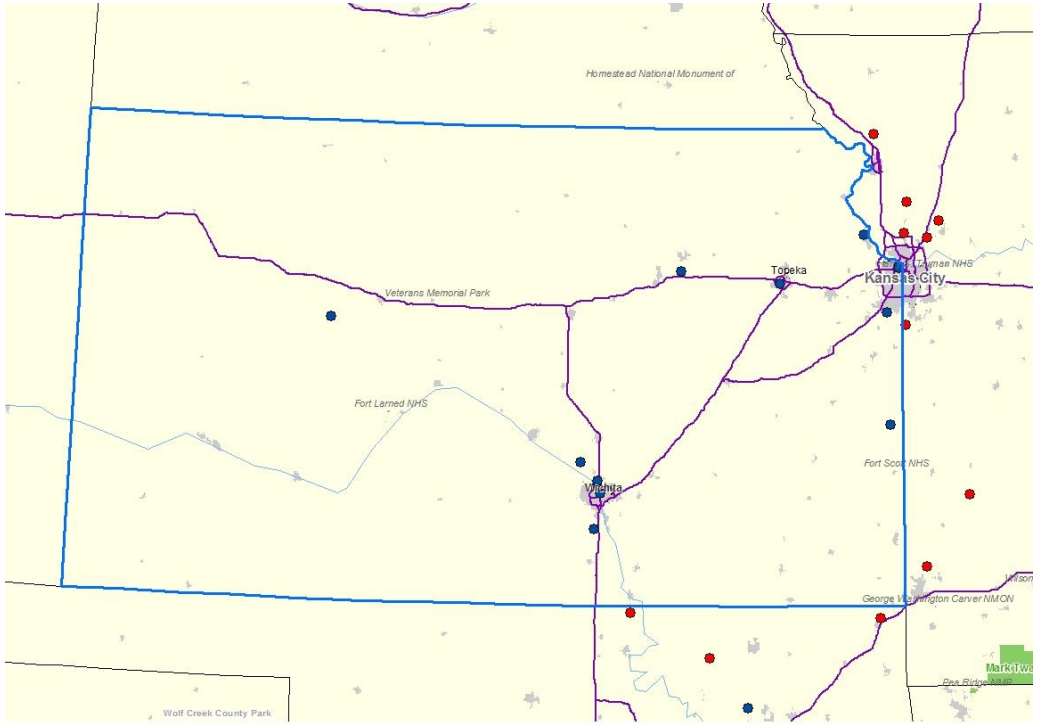
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Kansas

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓11 of 11 ozone sites operated year-round (100%)
- ✓Exceedance days during 2005-2006:
  3 (B), 1 (A)
- ✓Exceedance days during 2007-2009:
  5 (B), 0 (A): 3/6 – 3/29
- ✓Exceedance days during 2010-2013:
  17 (B), 1 (A)
  Period of exceedances: 2/12 – 3/31, 11/1
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Before exceedances 4 of 17 in Feb., 13 of 17 in March
  - ✓KS commented in last proposal that ozone season should be same as MO due to unified Kansas City planning area
  - ✓Proposal maintains consistency with MO

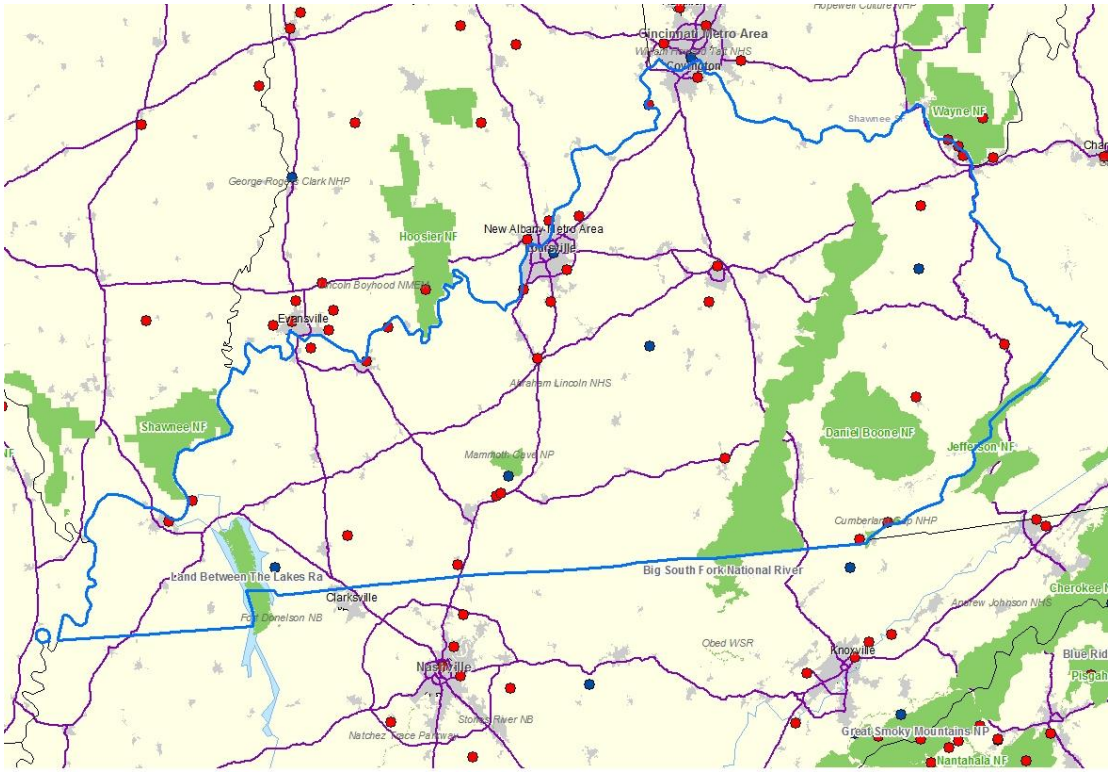
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Kentucky

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓5 of 32 ozone sites operated year-round (16%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 5 (A): 11/1 – 11/5
- ✓Exceedance days during 2010-2013: 0 (B), 3 (A): 11/11 – 11/13
- ✓Period of exceedances:
- ✓<u>Notes:</u>
  - ✓No changes proposed
  - ✓Consistency with IL, IN, OH

● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Louisiana (northern) AQCR 019, 022

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓3 of 3 ozone sites operated year-round (100%) for these AQCR's
- ✓Exceedance days during 2005-2006: 1(B), 1(A)
- ✓Exceedance days during 2007-2009: 3 (B), 2(A): 2/6 – 11/25
- ✓Exceedance days during 2010-2013: 0 (B), 1(A): 11/1
- ✓<u>Notes:</u>
  - ✓No changes proposed

● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Louisiana (southern) AQCR 106

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓21 of 24 ozone sites operated year-round (88%) for these AQCR's
- ✓Exceedance days during 2005-2006: 0(B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)

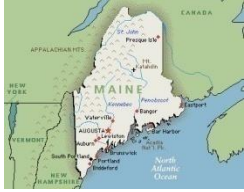
Exceedance days during 2010-2013: 0 (B), 0 (A)

- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓No changes proposed

● Year-round monitor ● Season-only monitor

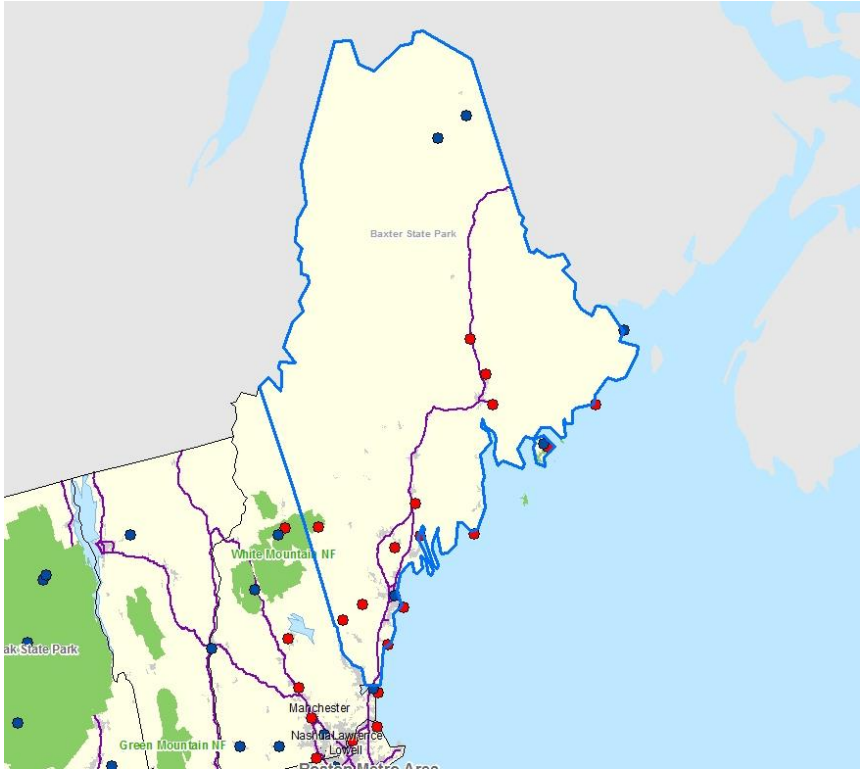
[Based on data completeness during 2010 – 2013]

Maine



CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓5 of 19 ozone sites operated year-round (26%)
- ✓Exceedance days during 2005-2006: 2(B), 1 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 3/14
- ✓ Exceedance days during 2010-2013: 3 (B), 0 (A)
- ✓Period of exceedances: 3/12, 3/19, 3/31
- ✓<u>Notes:</u>
  - ✓No changes proposed

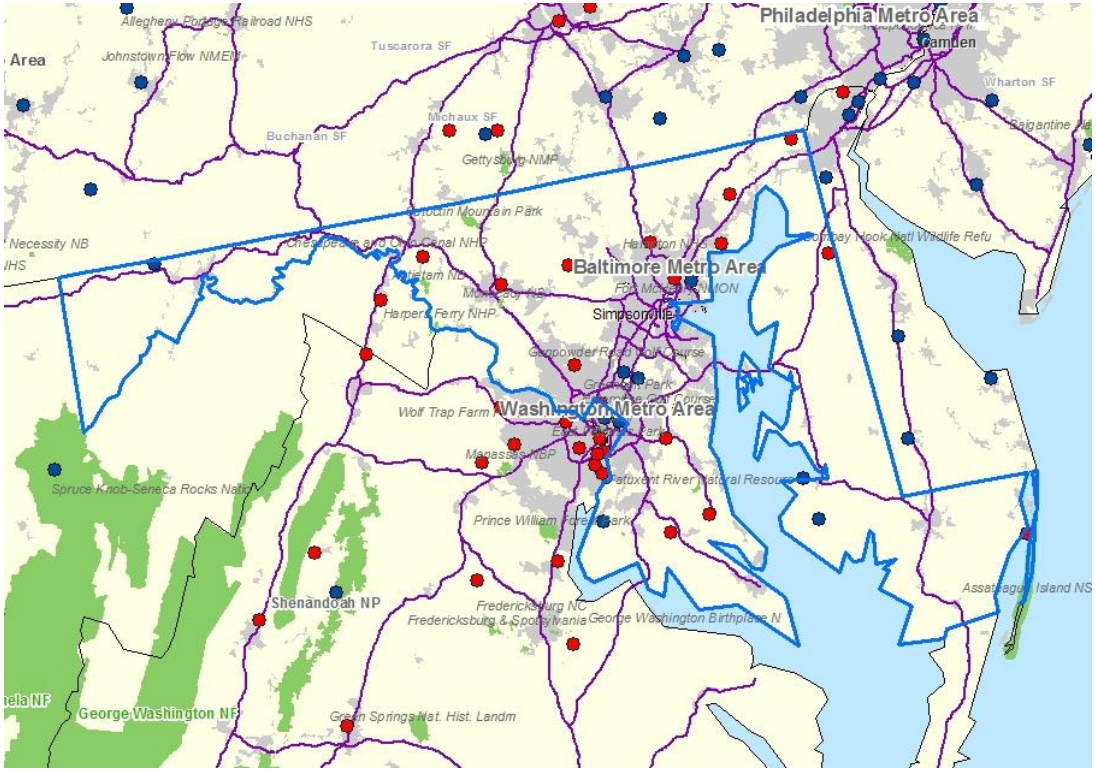
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Maryland

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓6 of 21 ozone sites operated year-round (29%)
- ✓Exceedance days during 2005-2006: 2(B), 1 (A)
- ✓Exceedance days during 2007-2009: 5 (B), 0 (A): 3/10 – 3/18
- ✓Exceedance days during 2010-2013: 10 (B), 0 (A)

Period of exceedances: 2/17, 3/10 – 3/30

- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓1 of 10 exceedances on 2/17, rest in March

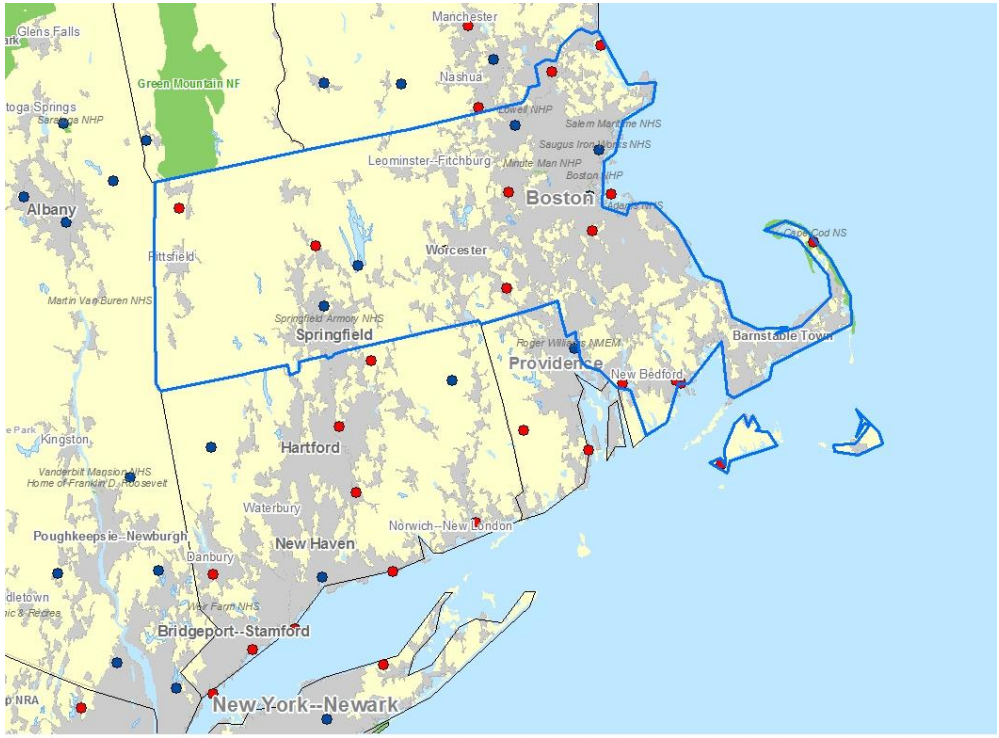
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Massachusetts

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

- ✓5 of 19 ozone sites operated year-round (26%)
- ✓Exceedance days during 2005-2006: 2 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 2 (B), 3 (A): 3/14 – 10/27
- ✓Exceedance days during 2010-2013: 5 (B), 2 (A)

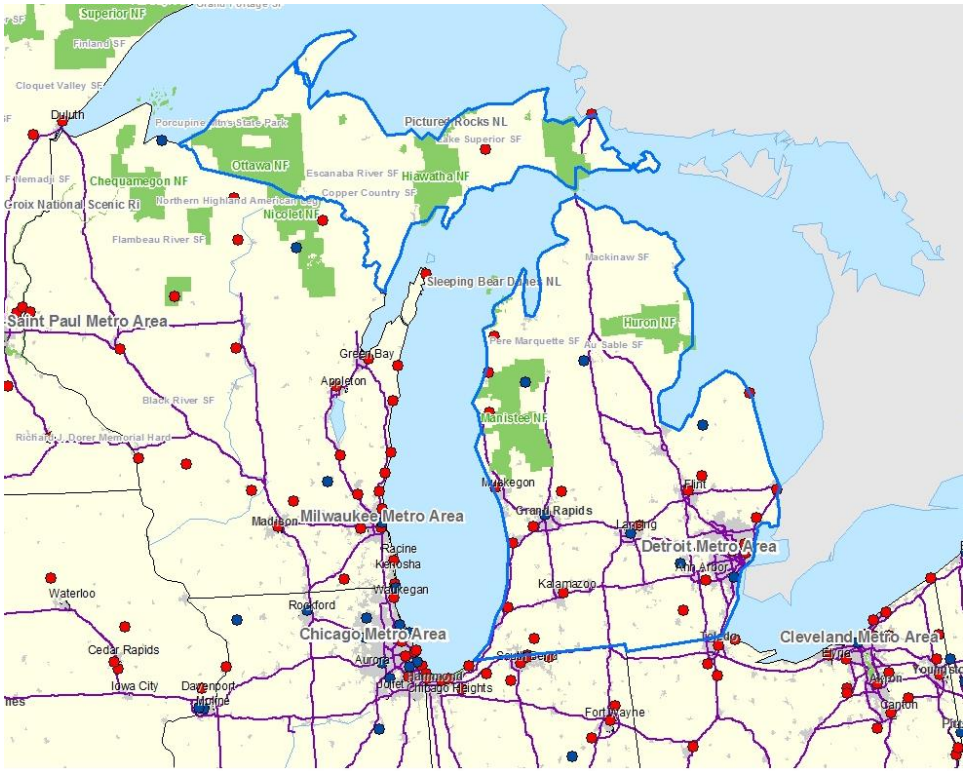
Period of exceedances: 3/7 – 3/31, 10/9 – 10/10

- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistency with CT and RI

Michigan

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

- ✓7 of 30 ozone sites operated year-round (23%)
- ✓Exceedance days during 2005-2006: 2 (B), 3 (A): 3/28 – 10/5
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 5 (B), 6 (A)

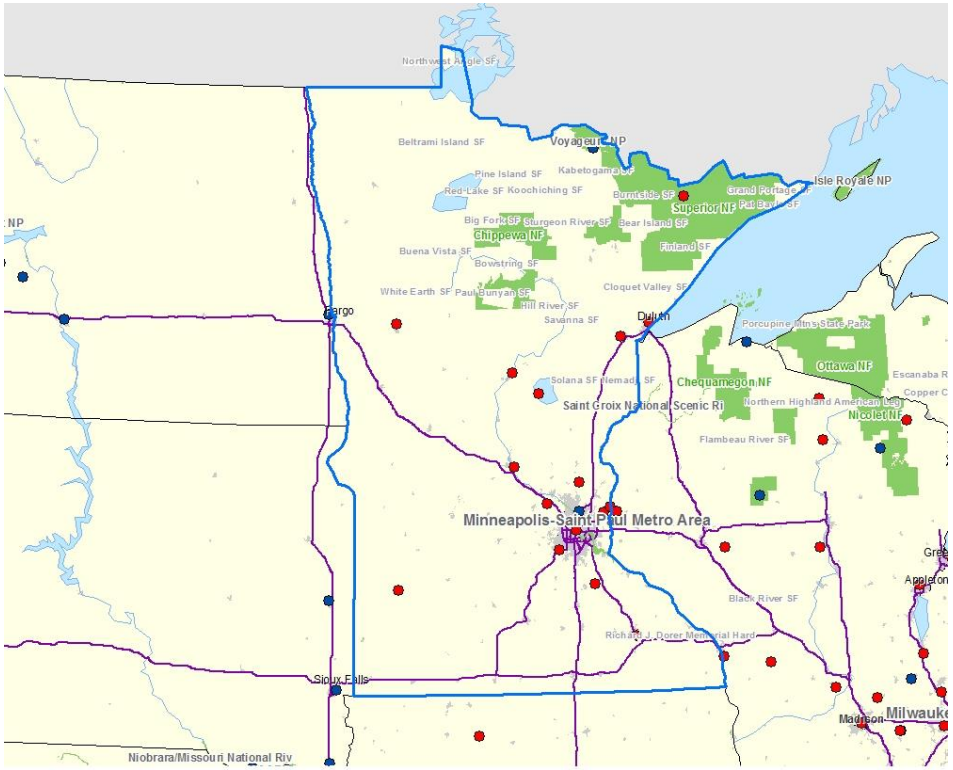
Period of exceedances: 3/9 – 3/31, 10/6 – 10/11

- ✓<u>Notes:</u>
  - ✓Propose adding March and Oct.
  - ✓Consistency with surrounding IL, OH, IN, WI

Minnesota

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

- ✓2 of 18 ozone sites operated year-round (11%)
- ✓Exceedance days during 2005-2006: 1 (B), 0 (A): 3/29
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 5 (B), 0 (A)
- ✓Period of exceedances: 3/7, 3/10, 3/29-3/30
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Year-round data limited
  - ✓Regional consistency considered

Mississippi

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓2 of 12 ozone sites operated year-round (17%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 1 (B), 1 (A)
- ✓Period of exceedances: 2/13, 11/2
- ✓<u>Notes:</u>
  - ✓No changes proposed

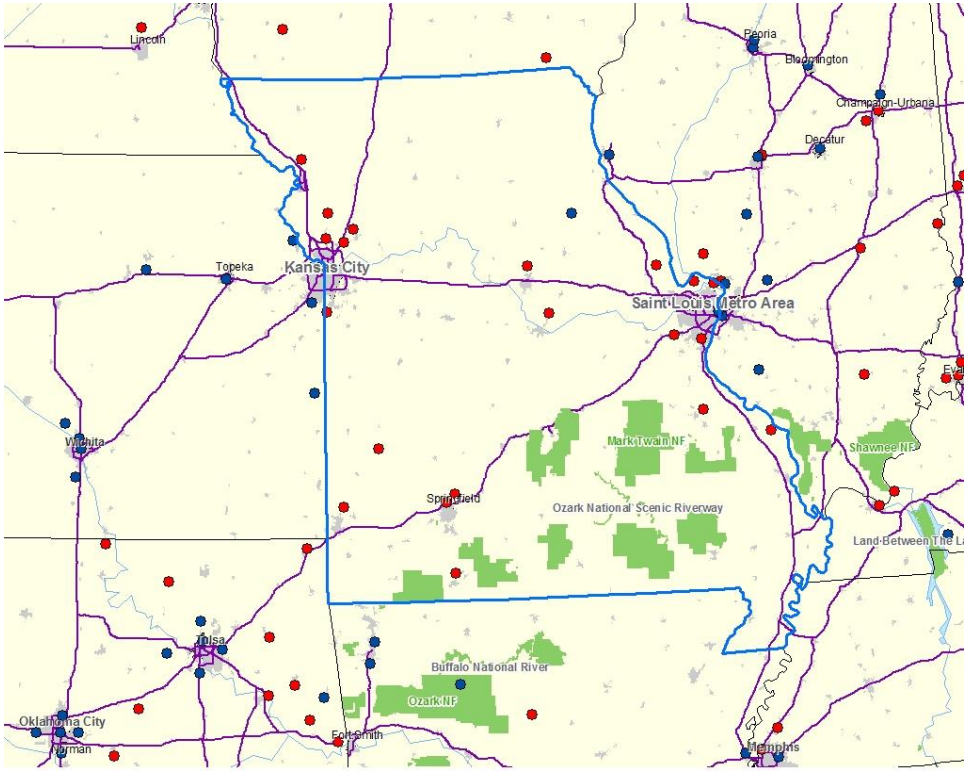
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Missouri

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

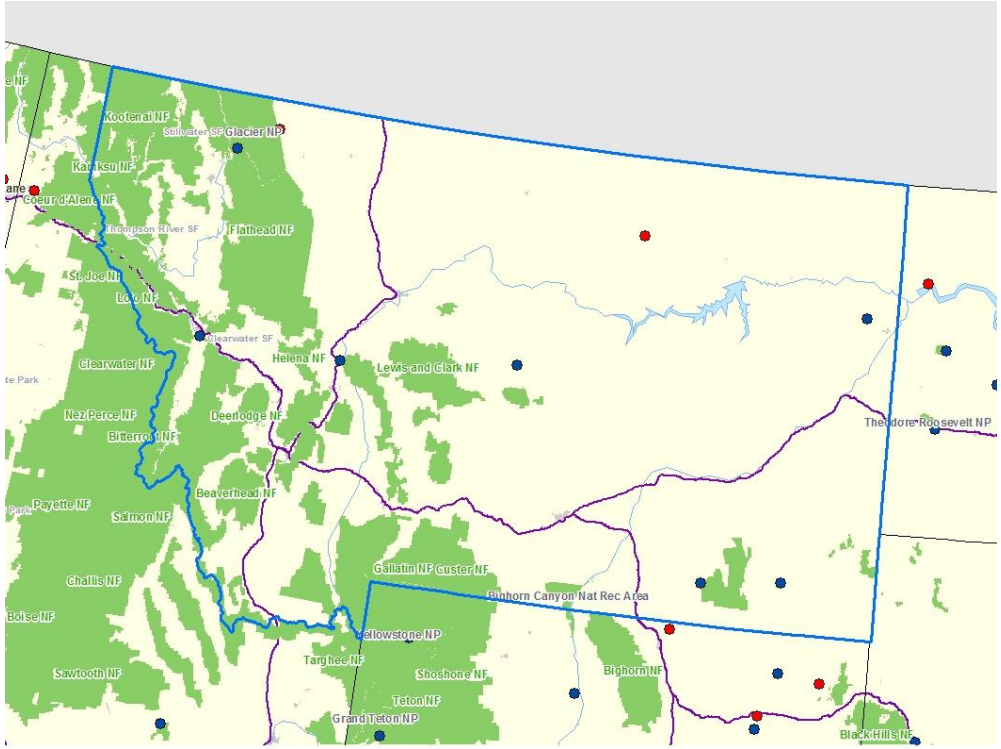
[Based on data completeness during 2010 – 2013]

- ✓2 of 25 ozone sites operated year-round (8%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 2 (B), 0 (A)
- ✓Period of exceedances: 3/3, 3/11
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistency with KS which has had numerous March exceedances (11) and IL where also propose adding March
  - ✓Year-round data limited

Montana

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓7 of 9 ozone sites operated year-round (78%)
- ✓Exceedance days during 2005-2006: 4 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 2 (B), 0 (A): 5/25, 5/26
- ✓Exceedance days during 2010-2013: 9 (B), 0 (A)
- ✓Period of exceedances: 4/20-5/17
- ✓<u>Notes:</u>
  - ✓Propose adding April and May
  - ✓4 exceedance days in April and 5 in May

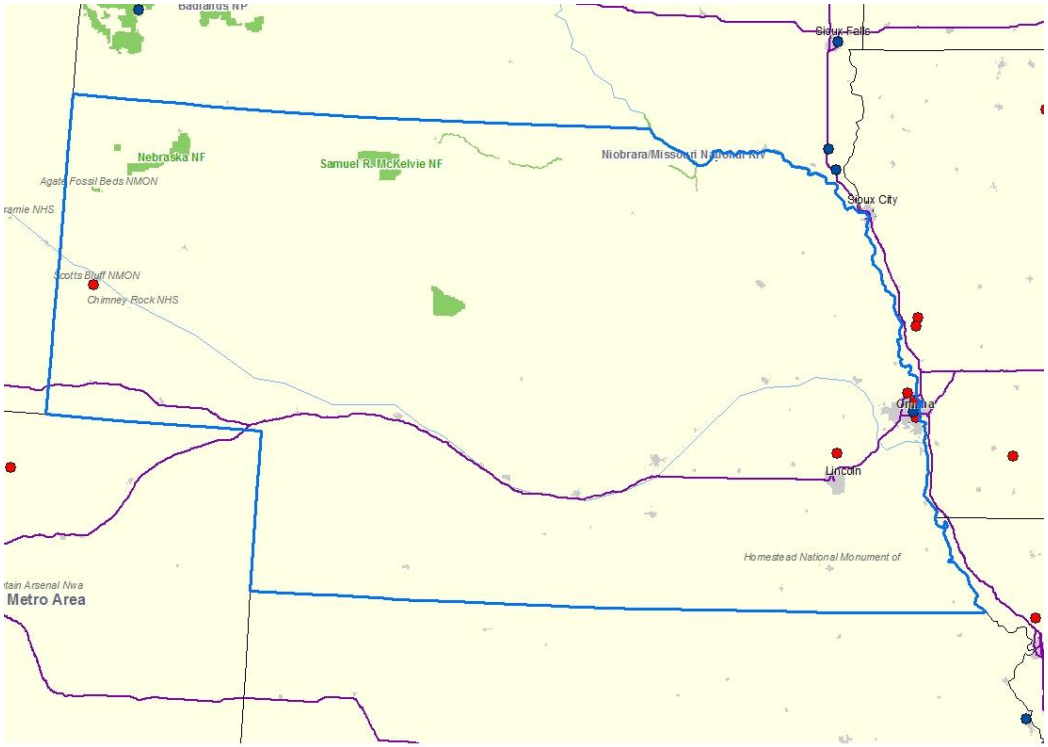
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Nebraska

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓2 of 7 ozone sites operated year-round (29%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 4 (B), 0 (A)
- ✓Period of exceedances: 3/24, 3/25, 3/26, 3/29
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Year-round data limited
  - ✓Consistency with SD, KS, IA, MO

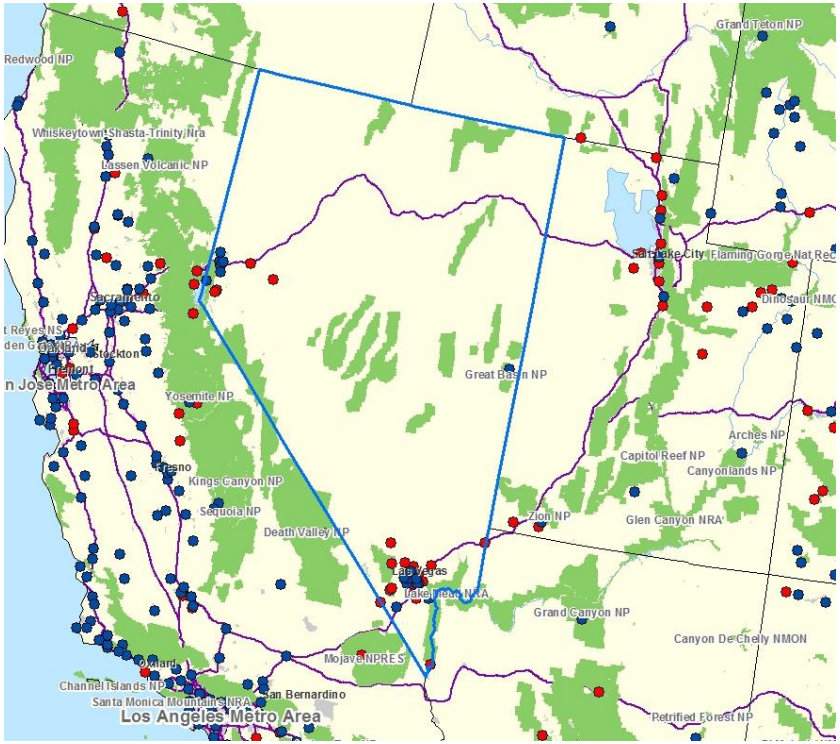
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Nevada

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓16 of 37 ozone sites operated year-round (43%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓Current analysis did not consider waivers
  - ✓Final rule will moot current waivers

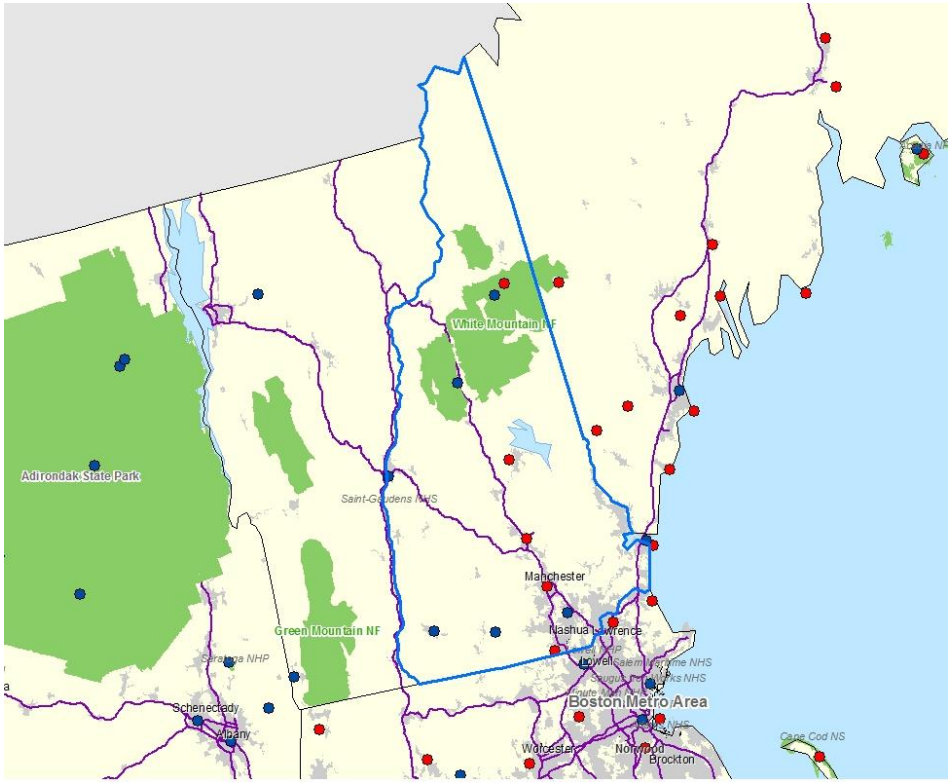
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

New Hampshire

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

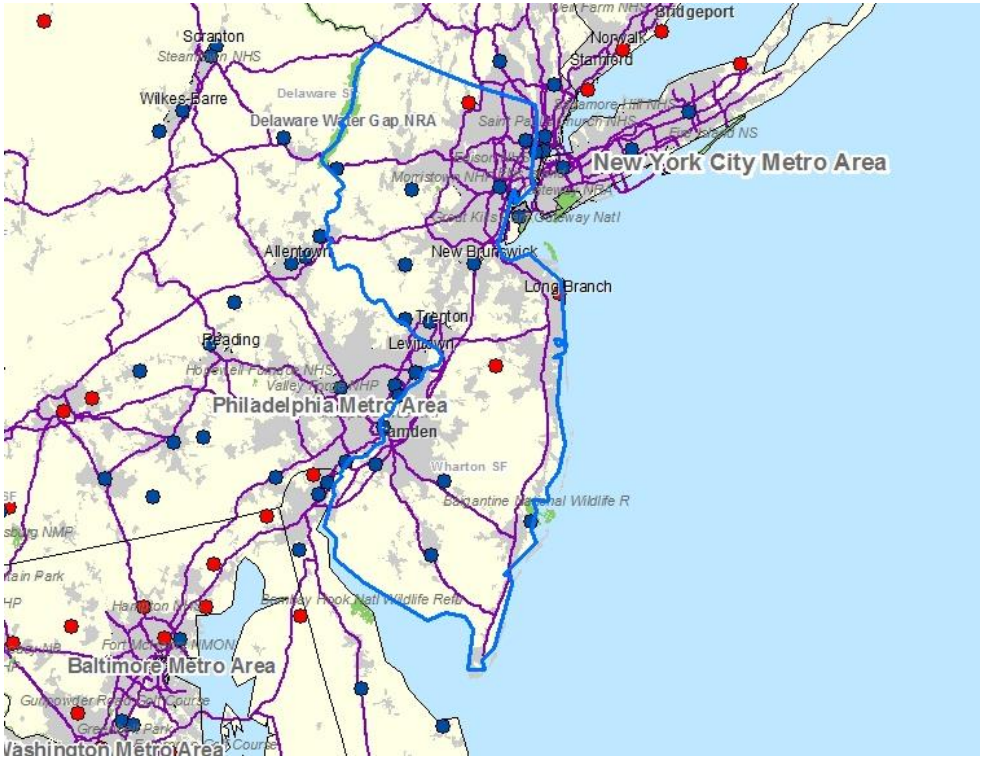
[Based on data completeness during 2010 – 2013]

- ✓7 of 13 ozone sites operated year-round (54%)
- ✓Exceedance days during 2005-2006: 1 (B), 0 (A): 3/31
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 13 (B), 6 (A)
- ✓Period of exceedances: 2/17, 2/18, 3/11 – 3/31, 10/1 – 10/25
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistency with other New England states

New Jersey

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓14 of 17 ozone sites operated year-round (82%)
- ✓Exceedance days during 2005-2006: 4 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 3/11
- ✓Exceedance days during 2010-2013: 3 (B), 0 (A)

Period of exceedances: 3/19, 3/20, 3/21

- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistency with surrounding PA, NY, MD, DE

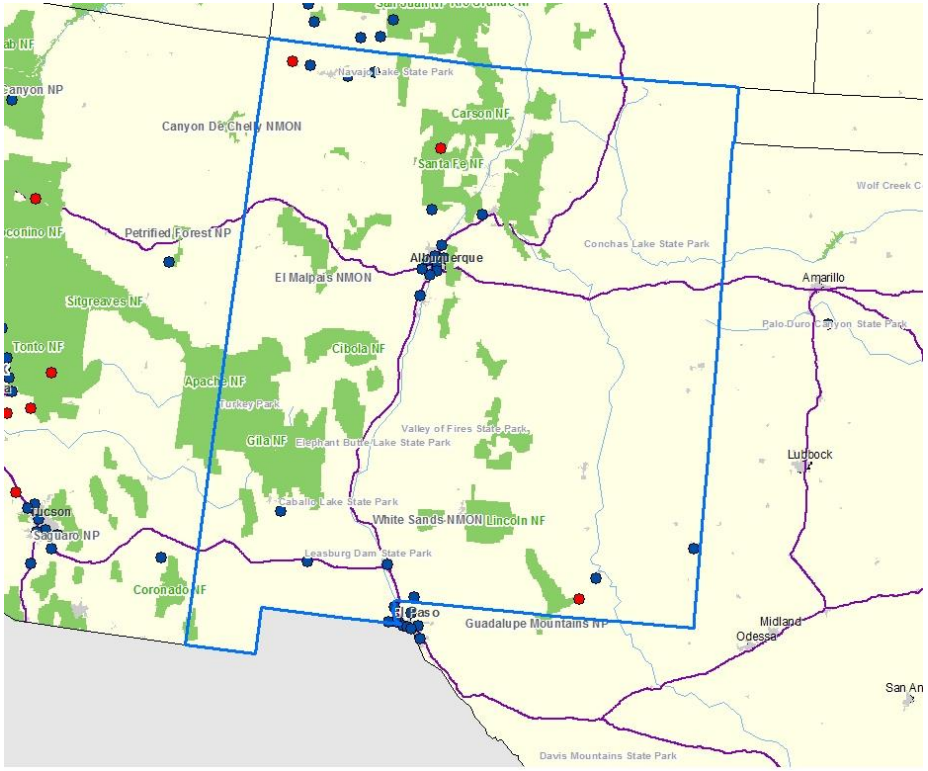
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

New Mexico

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓24 of 27 ozone sites operated year-round (92%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓Analysis did not consider waivers
  - ✓Final rule will moot current waivers

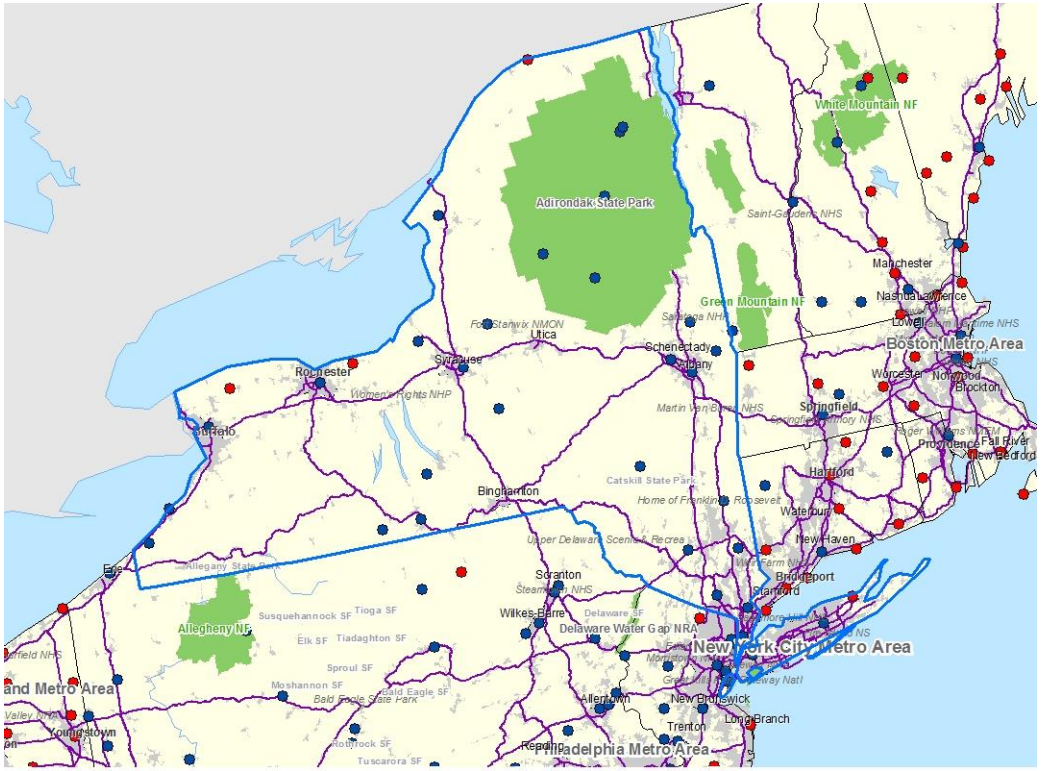
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

New York

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

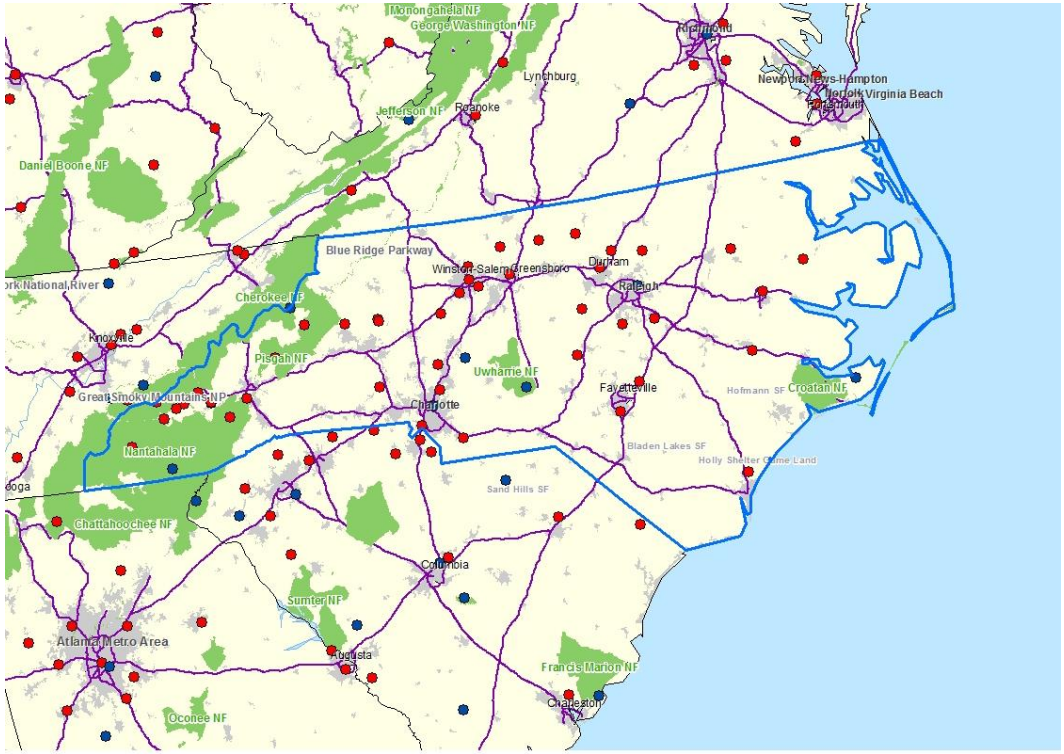
[Based on data completeness during 2010 – 2013]

- ✓34 of 38 ozone sites operated year-round (89%)
- ✓Exceedance days during 2005-2006: 4 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 7 (B), 0 (A): 3/3 – 3/22
- ✓Exceedance days during 2010-2013: 16 (B), 0 (A)
- ✓Period of exceedances: 2/17, 3/7 – 3/30
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistent with PA, CT, NJ proposal
  - ✓State commented on last proposal that northern states should have shorter season (already permissible through RA waiver process)

North Carolina

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

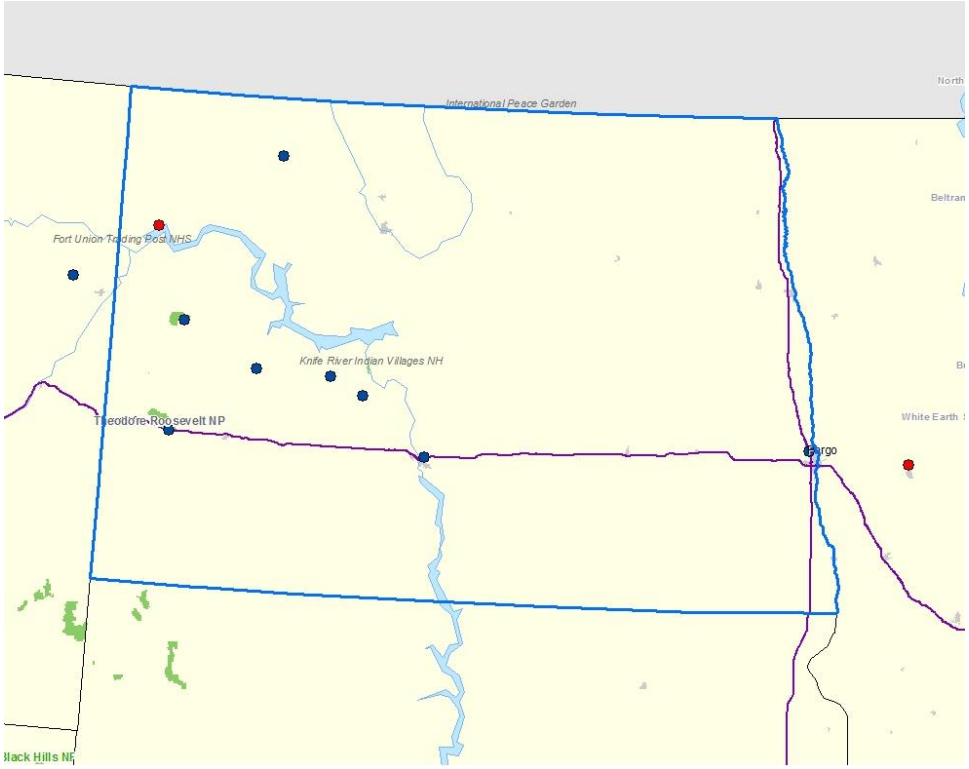
[Based on data completeness during 2010 – 2013]

- ✓7 of 49 ozone sites operated year-round (14%)
- ✓Exceedance days during 2005-2006: 3 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 16 (B), 0 (A): 3/10 – 3/28
- ✓Exceedance days during 2010-2013: 17 (B), 0 (A)
- ✓Period of exceedances: 2/17, 3/8 – 3/30
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Exceedance day count significant given low number of year-round monitors
  - ✓Consistency with VA, SC

North Dakota

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓8 of 9 ozone sites operated year-round (89%)
- ✓Exceedance days during 2005-2006: 5 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 4 (B), 0 (A): 3/13 – 4/29
- ✓Exceedance days during 2010-2013: 12 (B), 1 (A)
- ✓Period of exceedances: 3/8 – 4/23, 10/5
- ✓<u>Notes:</u>
  - ✓Propose adding March and April

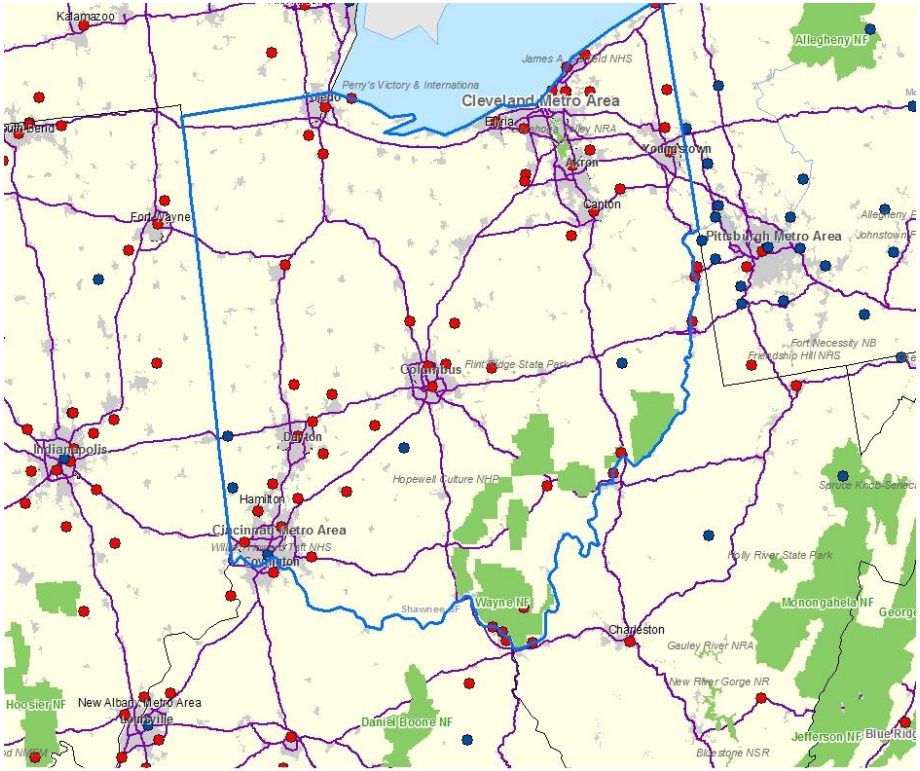
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Ohio

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

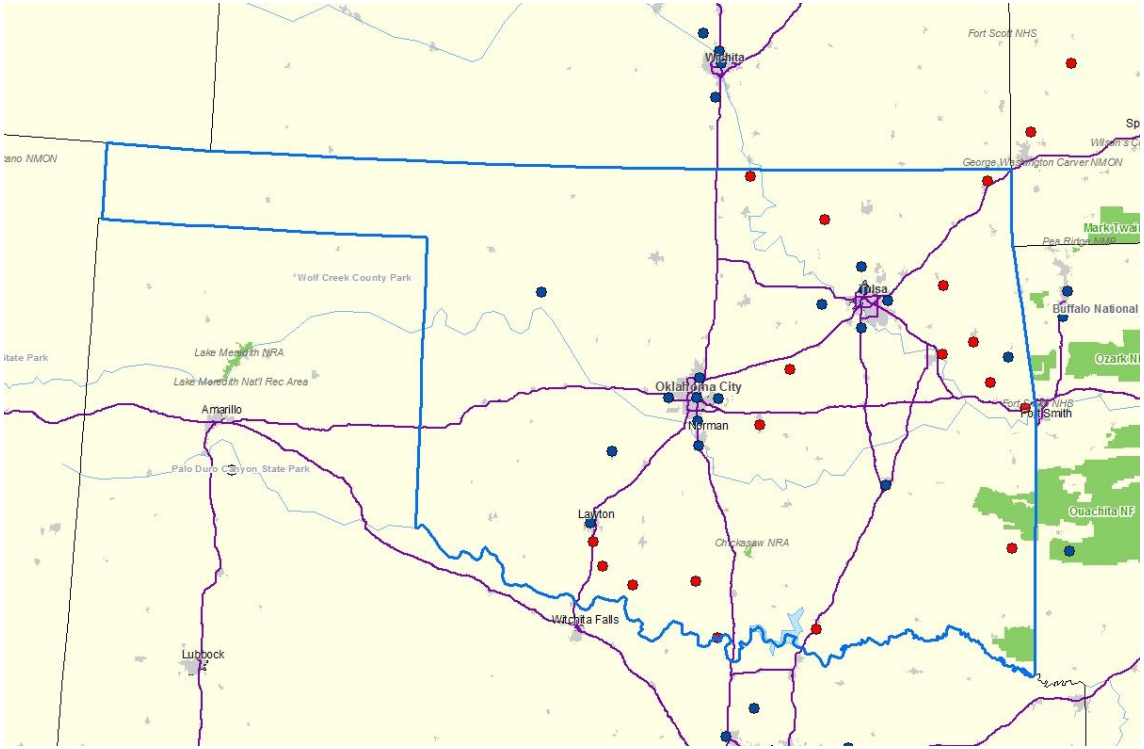
[Based on data completeness during 2010 – 2013]

- ✓6 of 53 ozone sites operated year-round (11%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 2 (A): 3/3, 11/1, 11/8
- ✓Exceedance days during 2010-2013: 13 (B), 2 (A)
- ✓Period of exceedances: 2/17, 3/7 – 3/31, 11/10, 11/13
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistency with IN, MI, and PA proposal

Oklahoma

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓16 of 33 ozone sites operated year-round (48%)
- ✓Exceedance days during 2005-2006: 2 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 2/14
- ✓Exceedance days during 2010-2013: 1 (B), 0 (A)
- ✓Period of exceedances: 1/29
- ✓<u>Notes:</u>
  - ✓No changes proposed
  - ✓Extensive year-round network
  - ✓Consistency with northern TX

● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Oregon

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓1 of 10 ozone sites operated year-round (10%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓No changes proposed
  - ✓Year-round data limited
  - ✓Consistency with WA

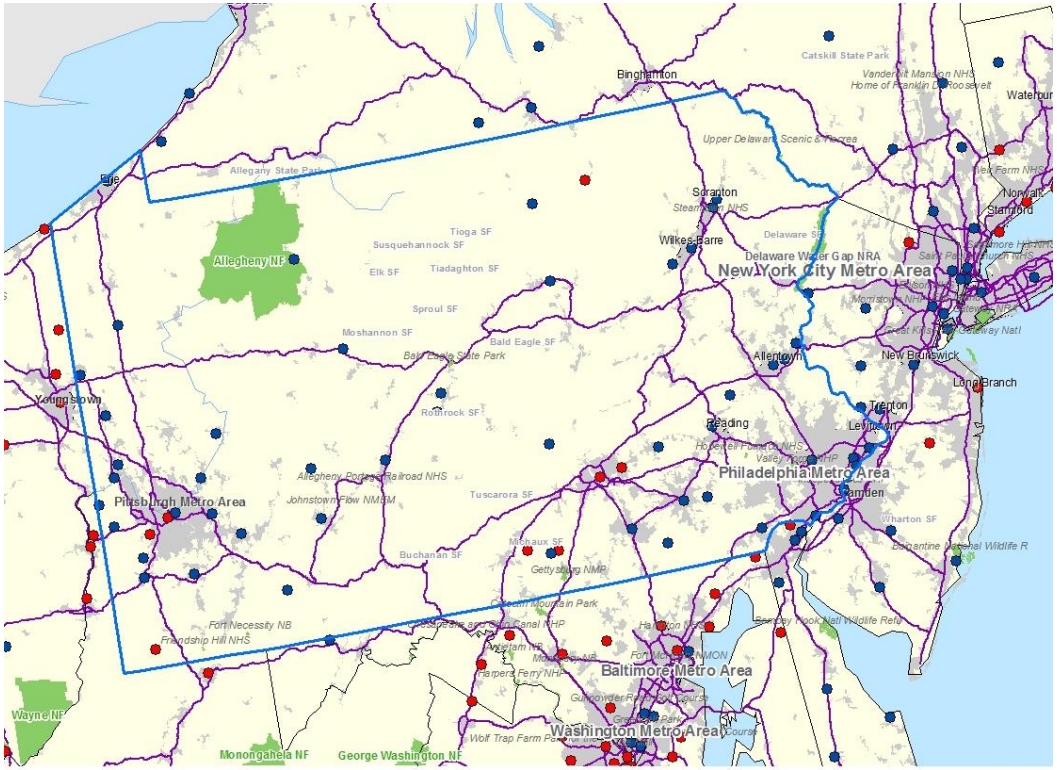
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Pennsylvania

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓50 of 59 ozone sites operated year-round (85%)
- ✓Exceedance days during 2005-2006: 2 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 3/18
- ✓Exceedance days during 2010-2013: 14 (B), 0 (A)
- ✓Period of exceedances: 3/7 – 3/31
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistency with NY, NJ, OH, MD, DE proposal

● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Rhode Island

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

● Year-round monitor ● Season-only monitor

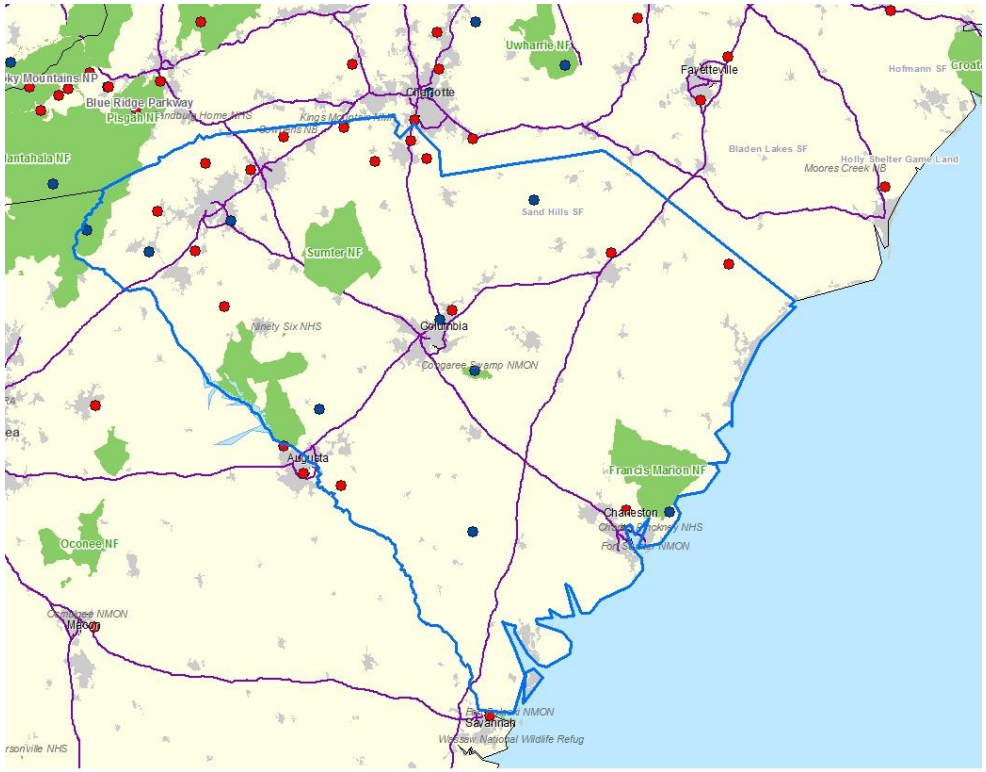
[Based on data completeness during 2010 – 2013]

- ✓1 of 3 ozone sites operated year-round (33%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 3 (B), 0 (A)
- ✓Period of exceedances: 3/19, 3/20, 3/31
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistency with CT and MA proposal
  - ✓Limited year-round monitors

South Carolina

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

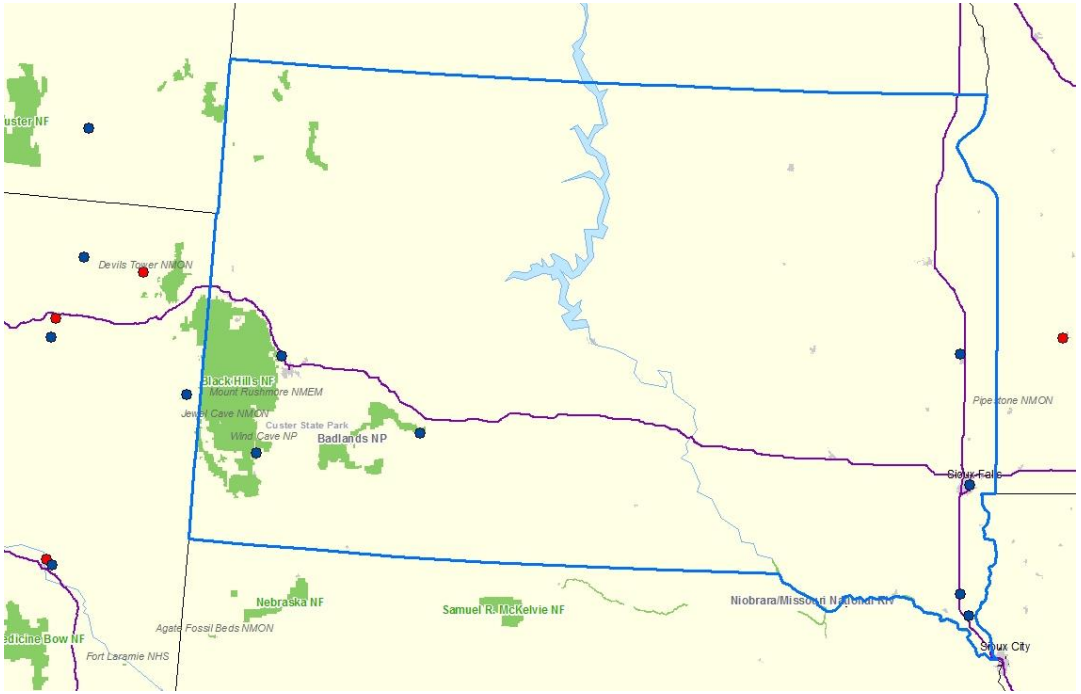
[Based on data completeness during 2010 – 2013]

- ✓9 of 24 ozone sites operated year-round (38%)
- ✓Exceedance days during 2005-2006: 18 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 29 (B), 1 (A): 2/16 – 11/2
- ✓Exceedance days during 2010-2013: 23 (B), 0 (A)
- ✓Period of exceedances: 2/21, 3/3 – 3/31
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Consistent with rest of Southeast

South Dakota

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓7 of 7 ozone sites operated year-round (100%)
- ✓Exceedance days during 2005-2006: 16 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 24 (B), 0 (A): 4/18 – 5/31
- ✓Exceedance days during 2010-2013: 31 (B), 6 (A)
- ✓Period of exceedances: 3/5 – 5/30, 10/3 – 10/6
- ✓<u>Notes:</u>
  - ✓Propose adding 4 months
  - ✓ 4 exceedance days in March, rest April-May, 5 in Oct.

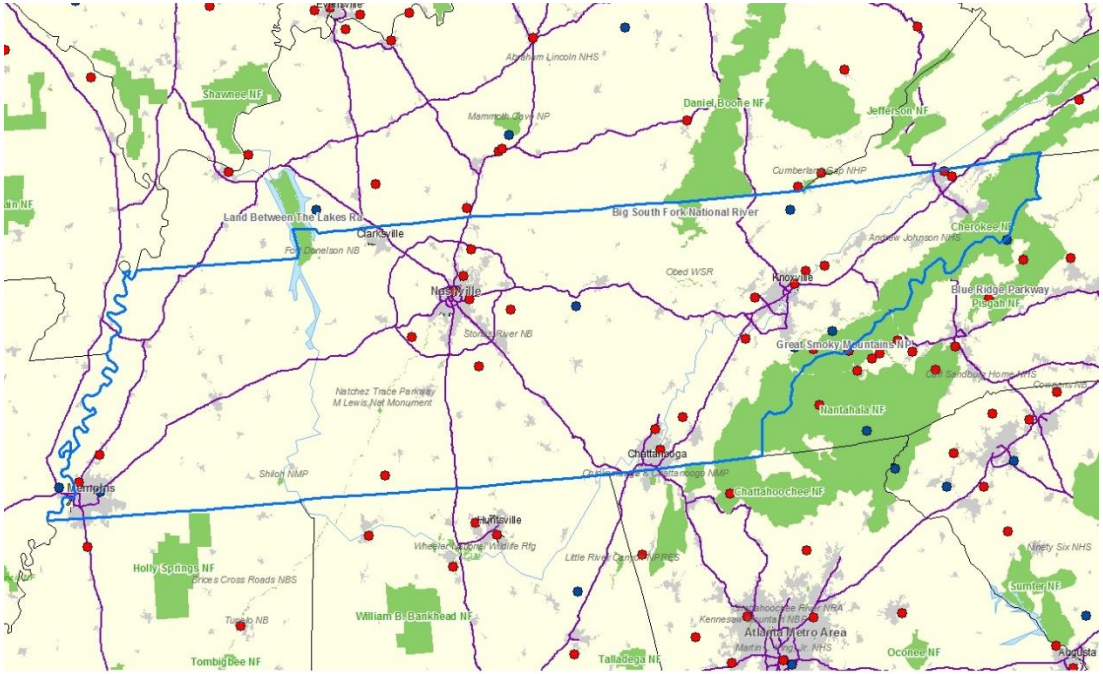
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Tennessee

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓5 of 27 ozone sites operated year-round (19%)
- ✓Exceedance days during 2005-2006: 1 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 2 (B), 4 (A): 2/24, 2/28, 11 – 11/5
- ✓Exceedance days during 2010-2013: 6 (B), 4 (A)
- ✓Period of exceedances: 2/13 – 2/21, 11/1 – 11/13
- ✓<u>Notes:</u>
  - ✓No changes proposed
  - ✓Regional consistency considered
  - ✓State comment on last proposal opposed change, would affect agreements with AR, KY, GA
  - ✓Proposal maintains consistency with AR, KY, GA

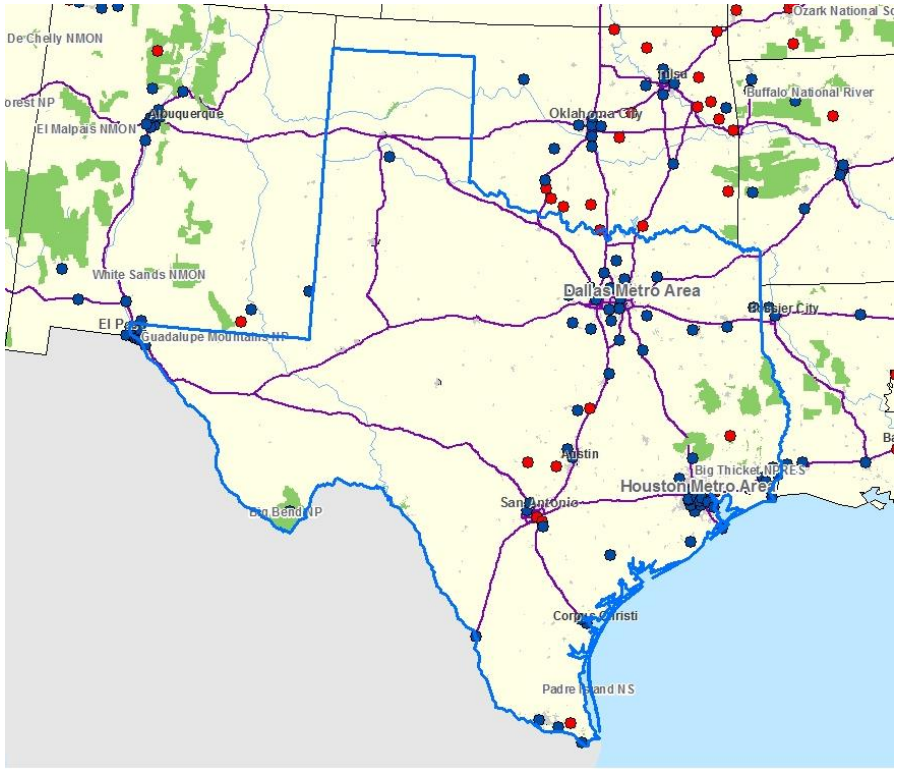
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Texas (northern) AQCR 022,210, 211, 212, 215, 217, 218

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓31 of 36 ozone sites operated year-round (86%) for these AQCR's
- ✓Exceedance days during 2005-2006: 0 (B), 3 (A)
- ✓Exceedance days during 2007-2009: 2 (B), 6 (A): 2/22, 2/28, 11/2 – 11/8
- ✓Exceedance days during 2010-2013: 1 (B), 3 (A) Period of exceedances: 2/27, 11/1 - 11/8
- ✓<u>Notes:</u>
  - ✓Propose adding Nov.
  - ✓Consistency with OK, AR

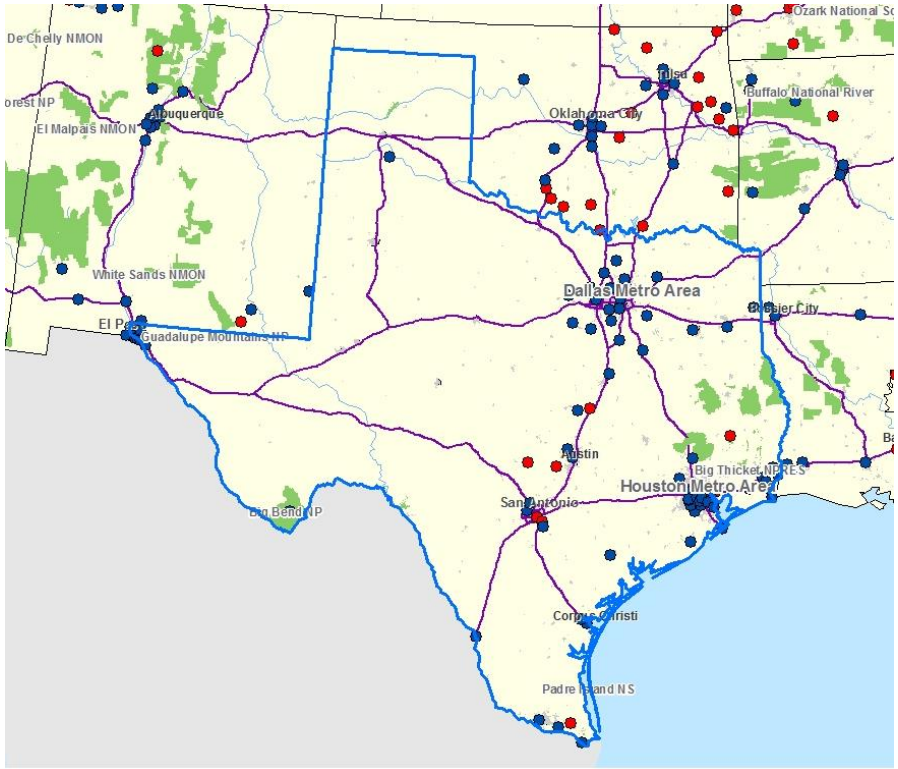
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Texas (southern) AQCR 106, 153, 213, 214, 216

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓44 of 47 ozone sites operated year-round (94%) for these AQCR's
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 0 (B), 0 (A)
- ✓Period of exceedances: N/A
- ✓<u>Notes:</u>
  - ✓No changes proposed

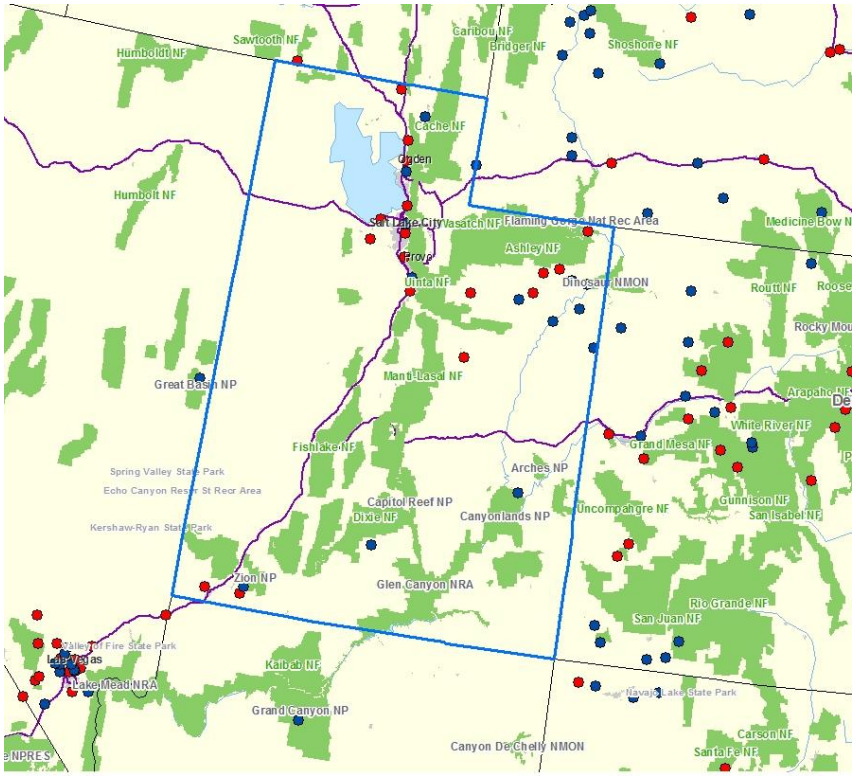
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Utah

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

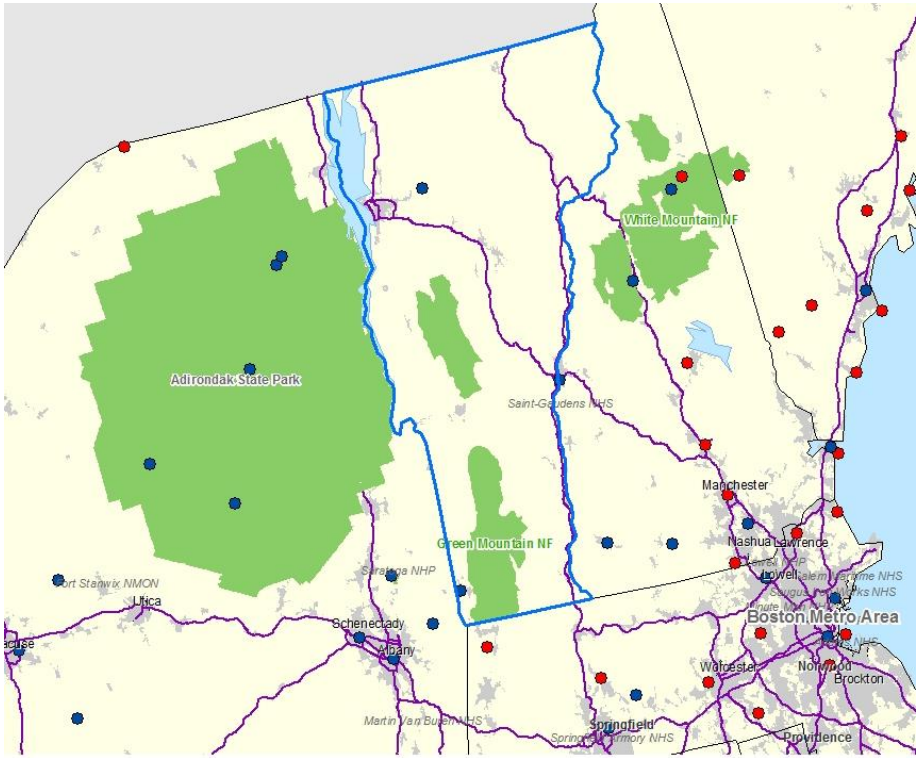
[Based on data completeness during 2010 – 2013]

- ✓13 of 30 ozone sites operated year-round (43%)
- ✓Exceedance days during 2005-2006: 26 (B), 1 (A)
- ✓Exceedance days during 2007-2009: 55 (B), 11 (A): 3/4 - 12/30
- ✓Exceedance days during 2010-2013: 230 (B), 19 (A)
- ✓Period of exceedances: 1/1 - 4/30, 10/1 - 12/31
- ✓<u>Notes:</u>
  - ✓Propose adding 7 months for year round season
  - ✓Exceedances > 100 ppb Dec. - March
  - ✓Consistent with proposed CO season and current NV, AZ seasons

Vermont

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



- ✓2 of 2 ozone sites operated year-round (100%)
- ✓Exceedance days during 2005-2006: 2 (B), 3 (A)
- ✓Exceedance days during 2007-2009: 2 (B), 0 (A): 3/17, 3/22
- ✓Exceedance days during 2010-2013: 1 (B), 0 (A)
- ✓Period of exceedances: 3/31
- ✓<u>Notes:</u>
  - ✓No changes proposed

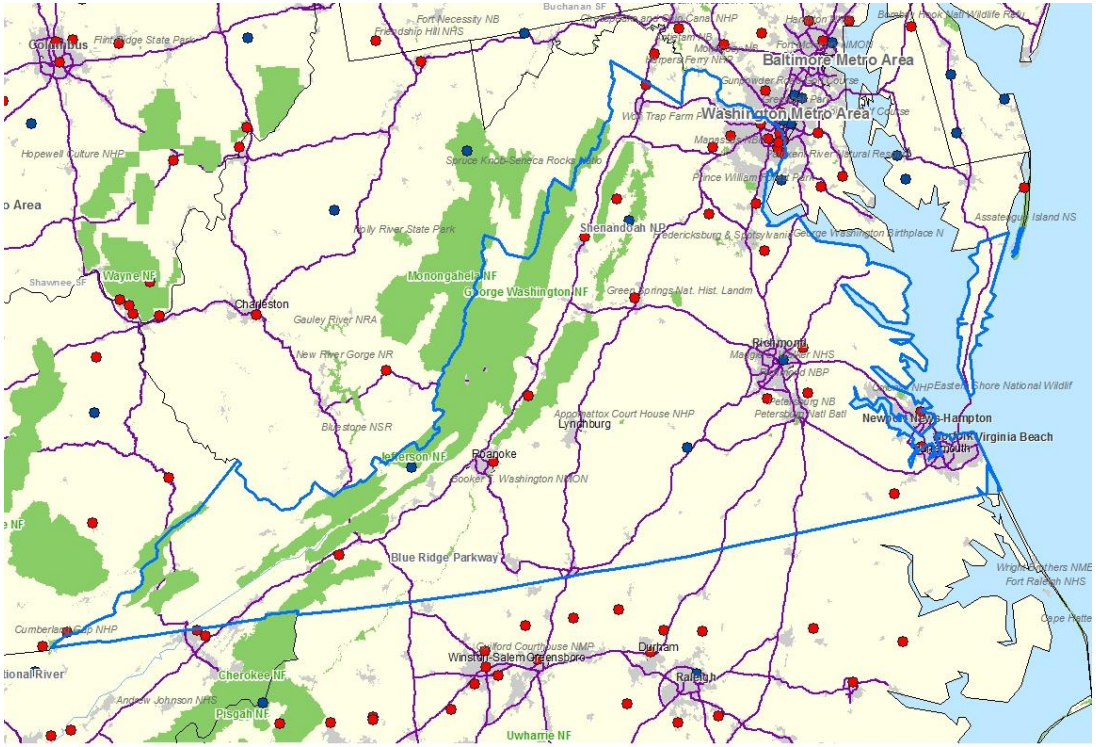
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

Virginia

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

- ✓4 of 30 ozone sites operated year-round (13%)
- ✓Exceedance days during 2005-2006: 4 (B), 1 (A)
- ✓Exceedance days during 2007-2009: 8 (B), 1 (A): 3/3 – 3/27, 11/11
- ✓Exceedance days during 2010-2013: 13 (B), 0 (A)
- ✓ Period of exceedances: 2/17, 3/8 – 3/30
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Year-round data limited
  - ✓Consistency with NC, SC proposal; existing KY seasons

Washington

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

- ✓5 of 18 ozone sites operated year-round (28%)
- ✓Exceedance days during 2005-2006: 0 (B), 1 (A)
- ✓Exceedance days during 2007-2009: 1 (B), 0 (A): 4/6
- ✓Exceedance days during 2010-2013: 0 (B), 2 (A)
- ✓Period of exceedances: 10/27, 10/28
- ✓<u>Notes:</u>
  - ✓No changes proposed

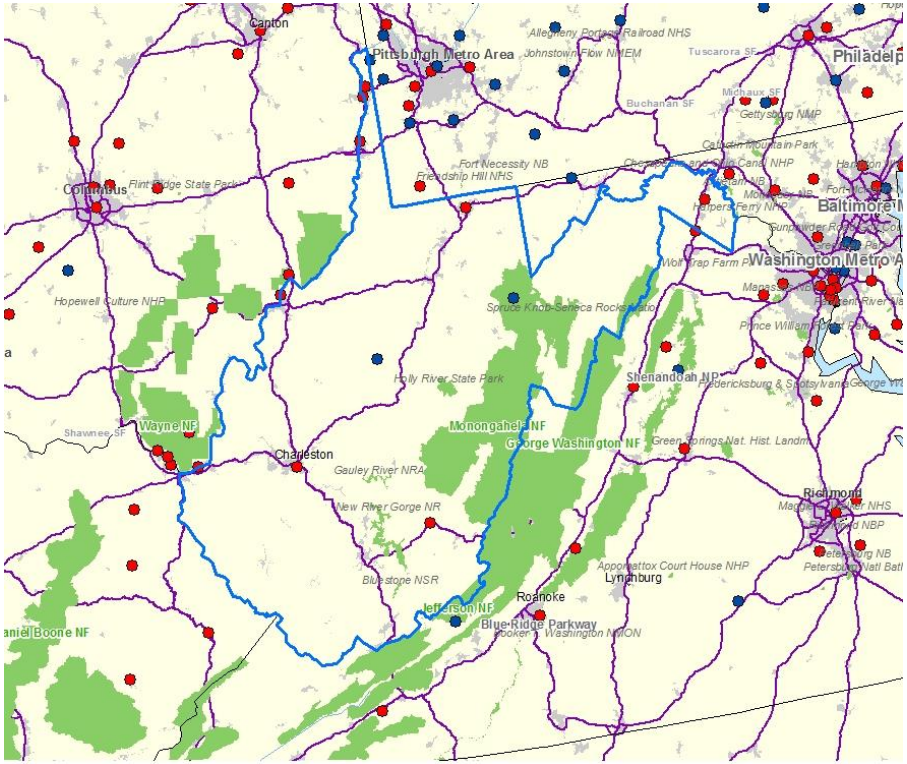
● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

West Virginia

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

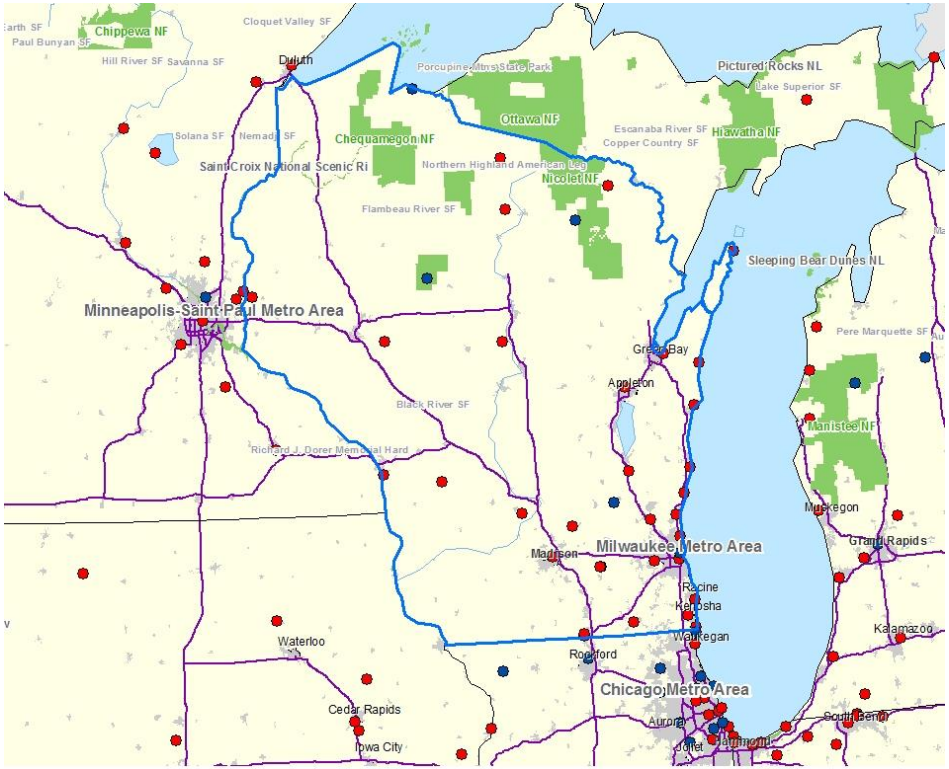
[Based on data completeness during 2010 – 2013]

- ✓2 of 10 ozone sites operated year-round (20%)
- ✓Exceedance days during 2005-2006: 0 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 0 (B), 0 (A)
- ✓Exceedance days during 2010-2013: 2 (B), 0 (A)
- ✓Period of exceedances: 3/20, 3/21
- ✓<u>Notes:</u>
  - ✓Propose adding March
  - ✓Regionally consistent with OH, MD, PA, VA, and KY

Wisconsin

CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season

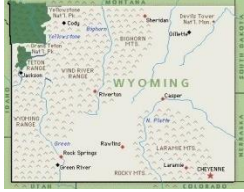


● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

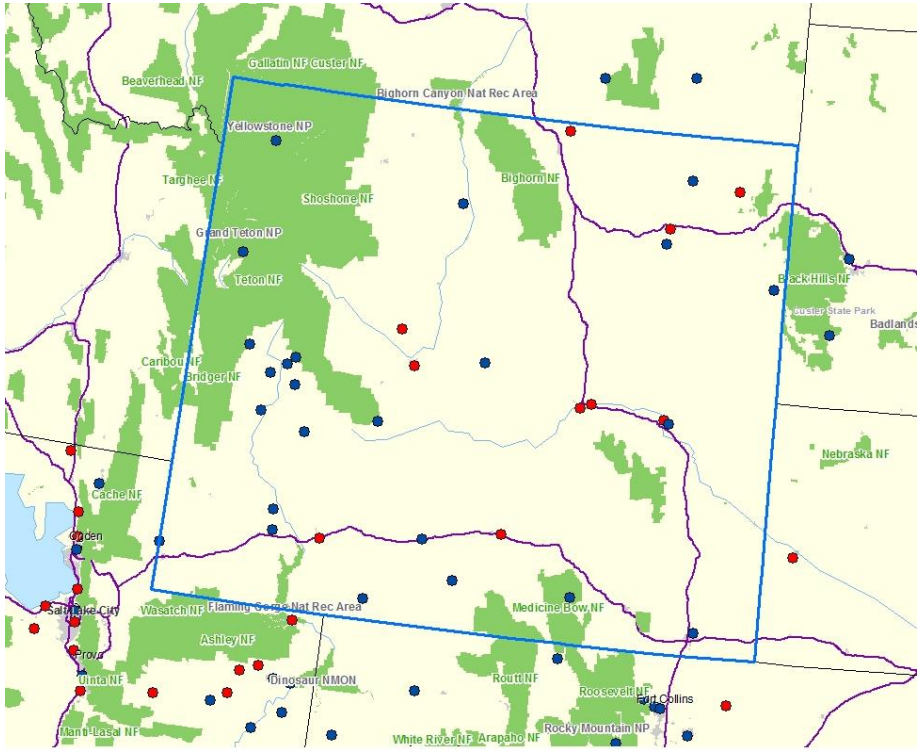
- ✓5 of 37 ozone sites operated year-round (14%)
- ✓Exceedance days during 2005-2006: 7 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 2 (B), 0 (A): 4/5, 4/6
- ✓Exceedance days during 2010-2013: 8 (B), 0 (A)
- ✓ Period of exceedances: 3/5 – 3/31
- ✓<u>Notes:</u>
  - ✓Propose adding March to April 15
  - ✓Net season: March 1 – Oct. 15

Wyoming



CURRENT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PROPOSED	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Exceedances: Days >= 8-hour 0.060 ppm, (B) = Before season, (A)=After season



● Year-round monitor ● Season-only monitor

[Based on data completeness during 2010 – 2013]

- ✓24 of 34 ozone sites operated year-round (71%)
- ✓Exceedance days during 2005-2006: 46 (B), 0 (A)
- ✓Exceedance days during 2007-2009: 51 (B), 0 (A): 1/25 – 3/30
- ✓Exceedance days during 2010-2013: 55 (B), 0 (A)
- ✓Period of exceedances: 1/29 – 3/31
- ✓<u>Notes:</u>
  - ✓Propose adding Jan., Feb., March and removing Oct.
  - ✓Two exceedance days in Jan., rest in Feb. and March
  - ✓Consistent with start month of UT, CO

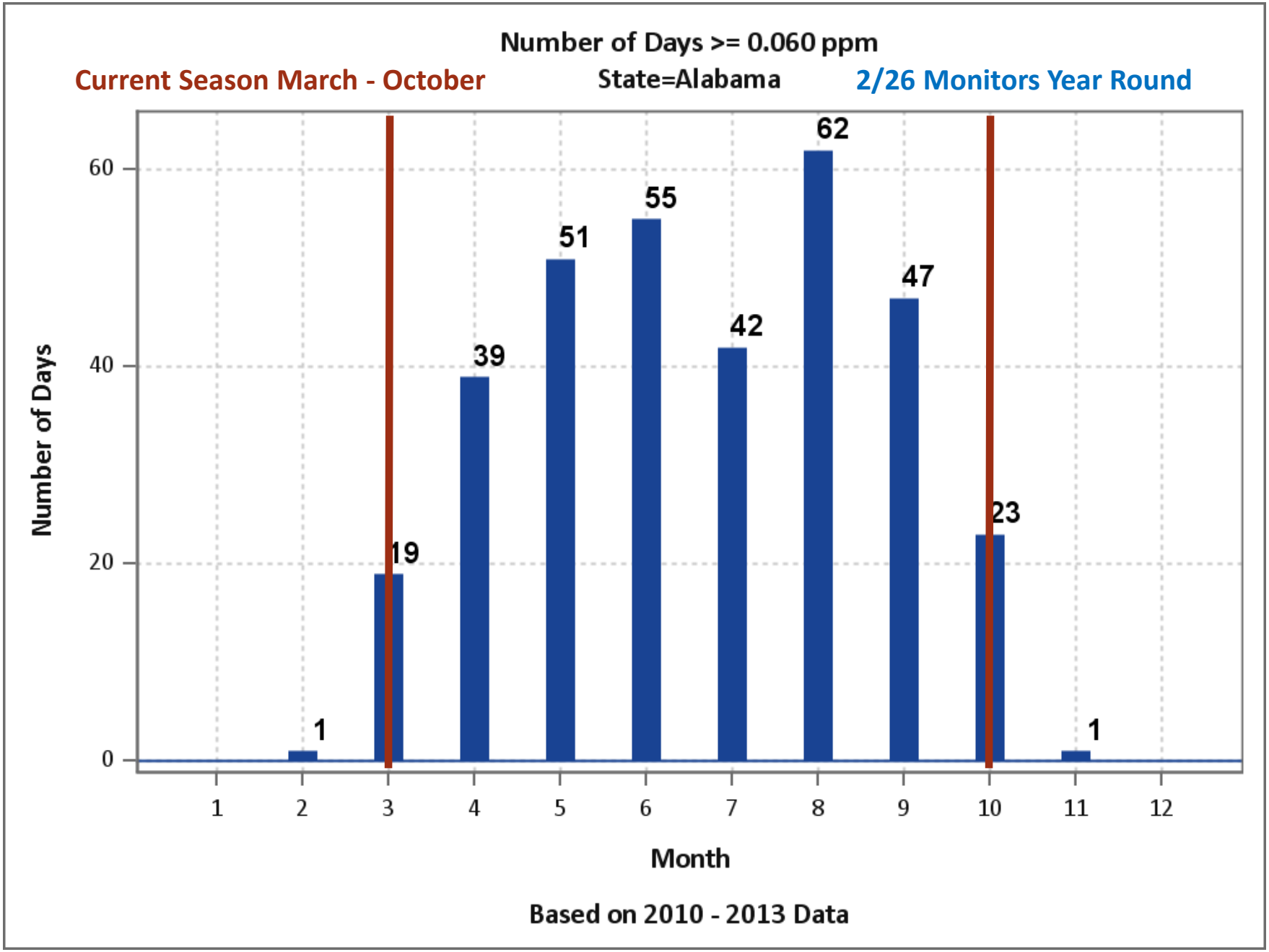
Attachment B

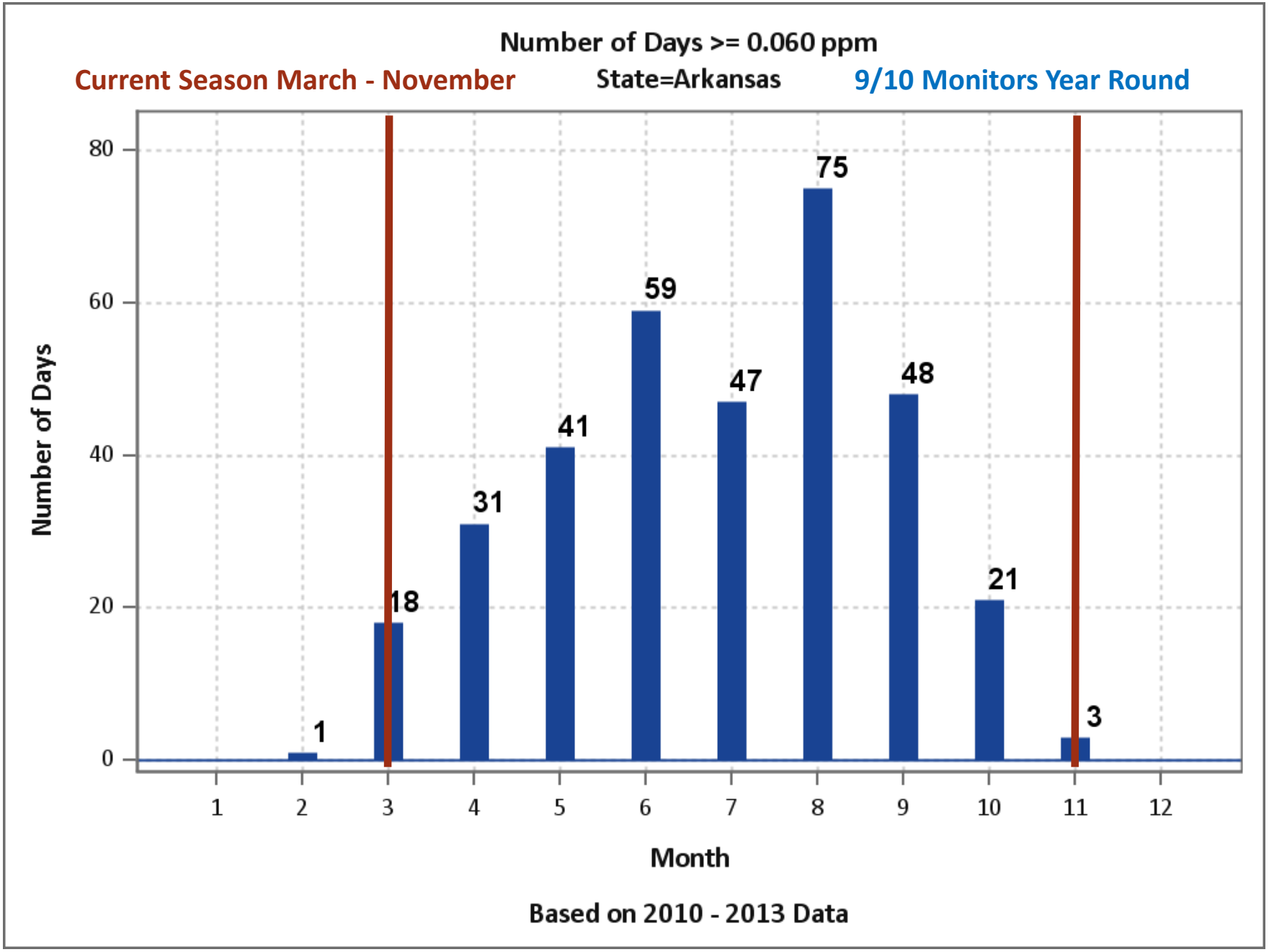
Distribution Charts of Days ≥0.060 ppm by Month and State

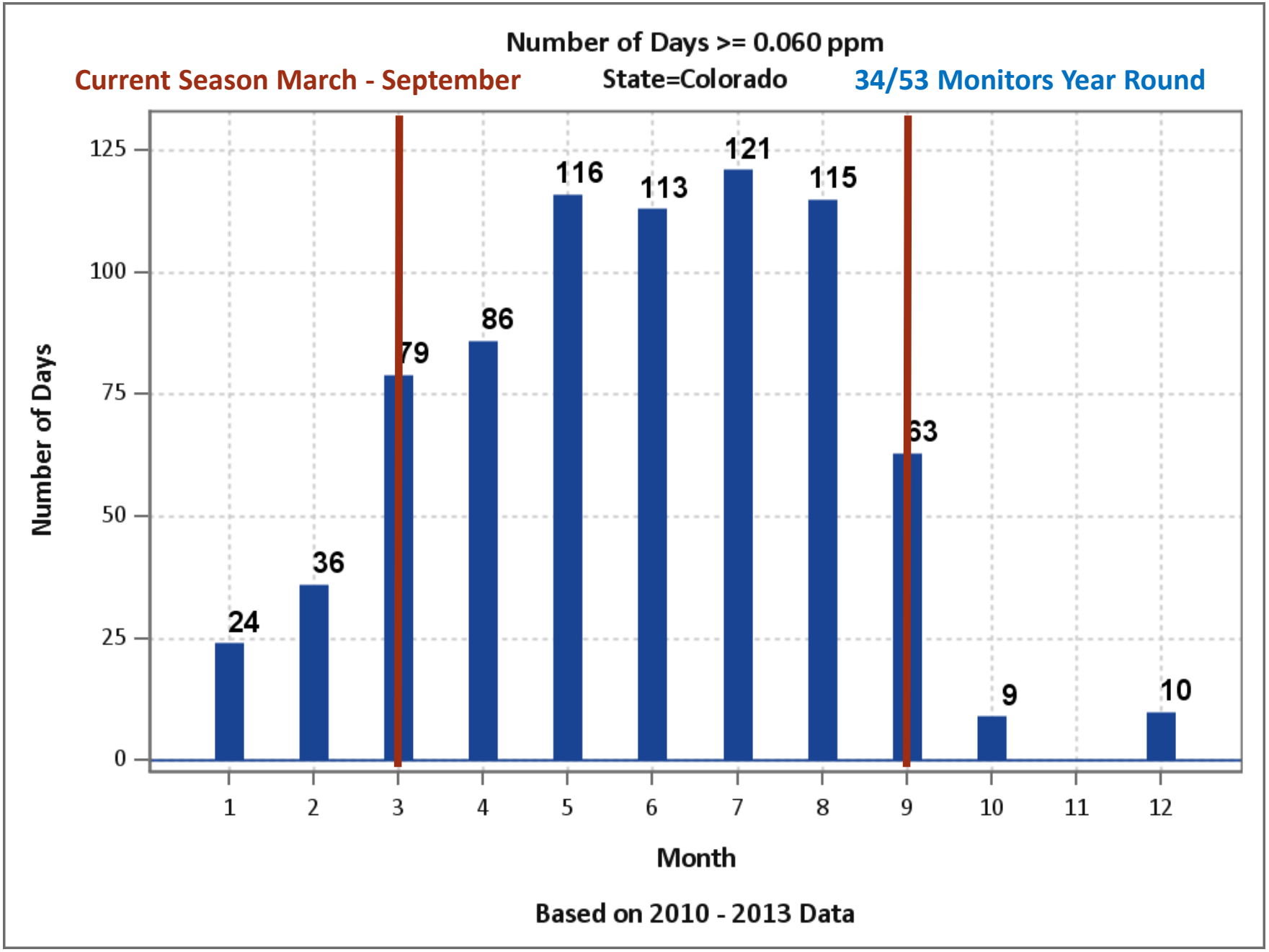
*Note: only those states not currently required to operate year-round are included.

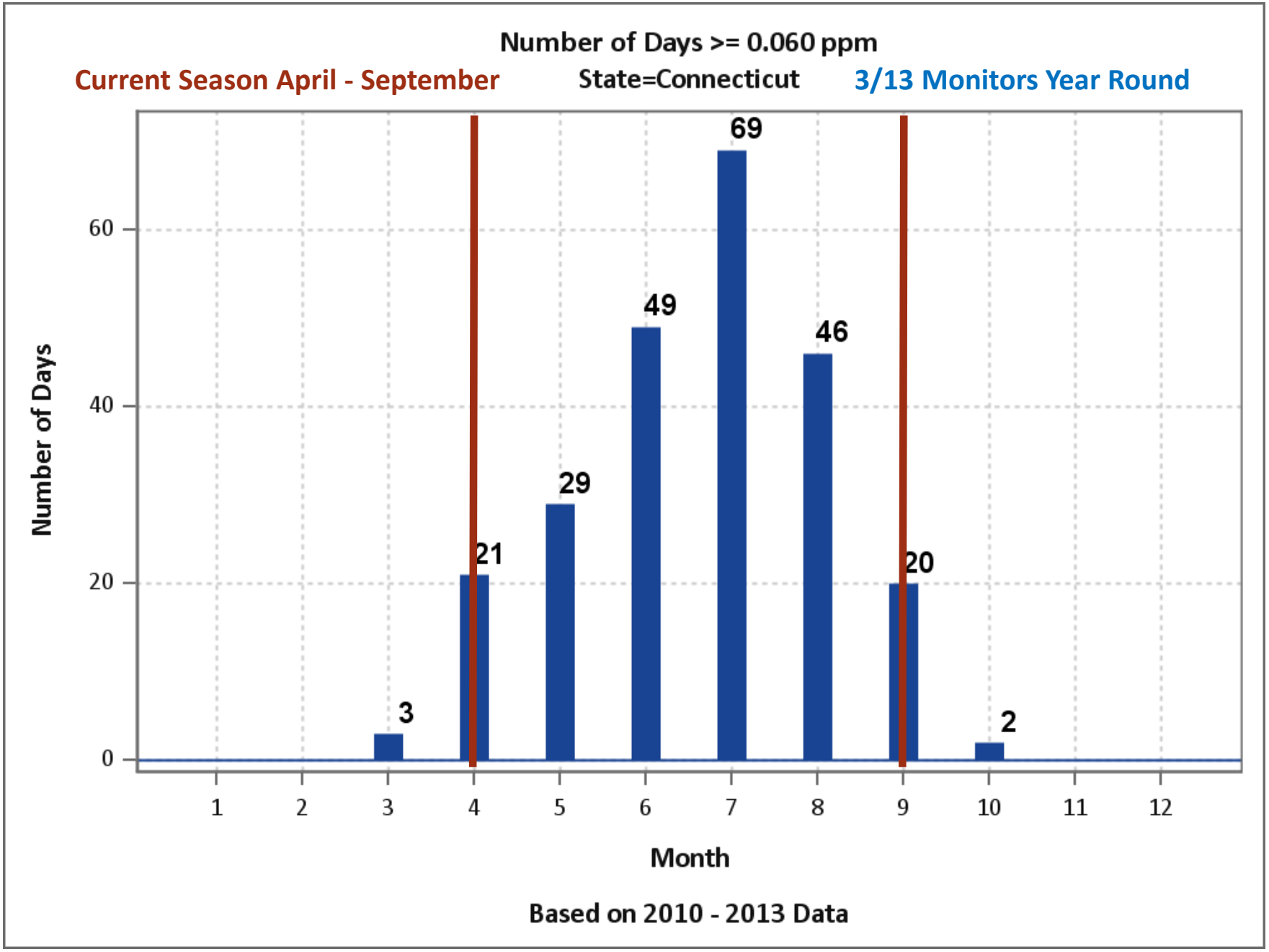
The ambient ozone data in this document were compiled from analyses used in support of the proposed rule for the O_3 NAAQS: Revisions to the Length of the Required O_3 Monitoring Seasons

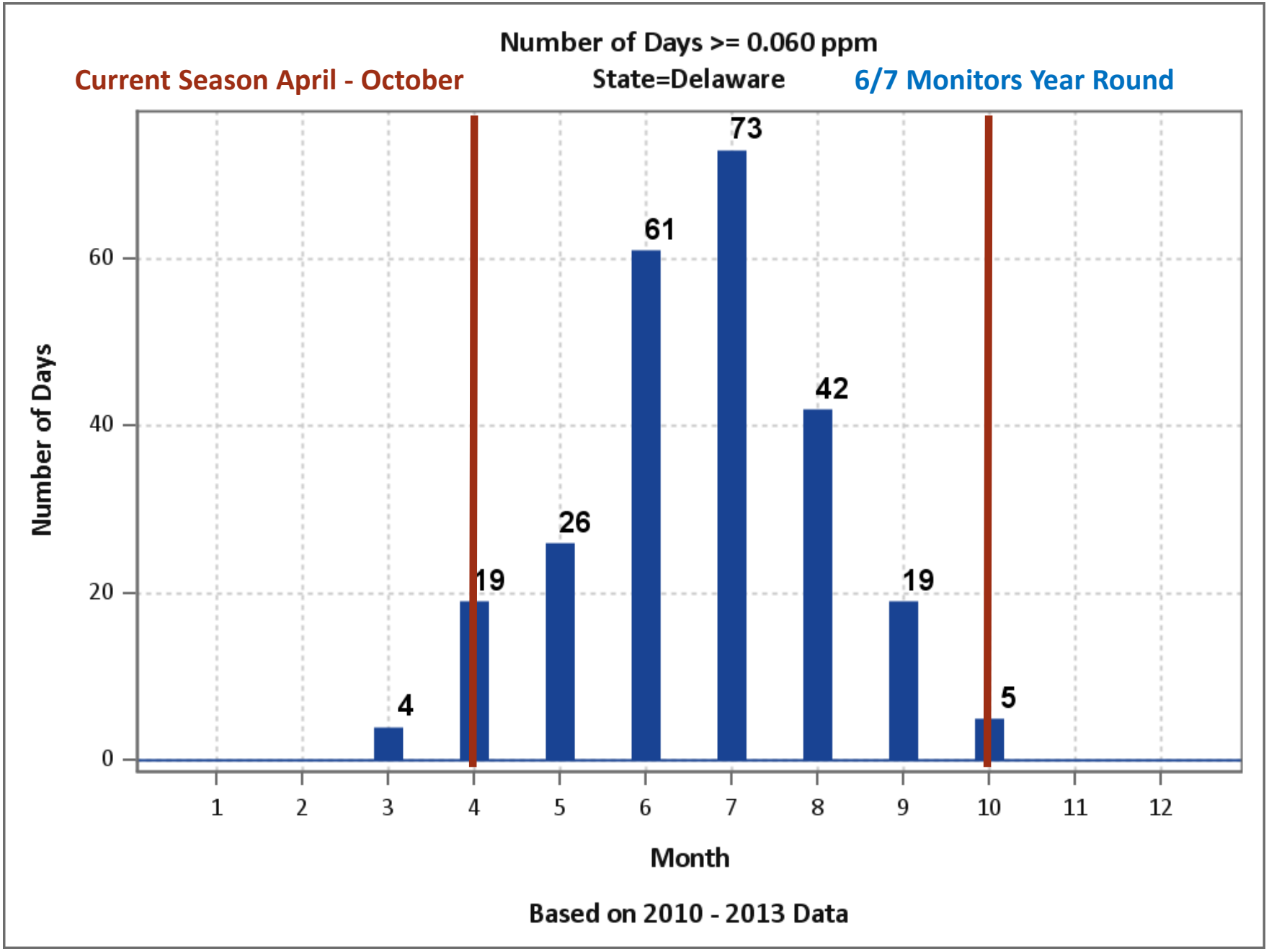
Docket ID No. EPA-HQ-OAR-2008-0699

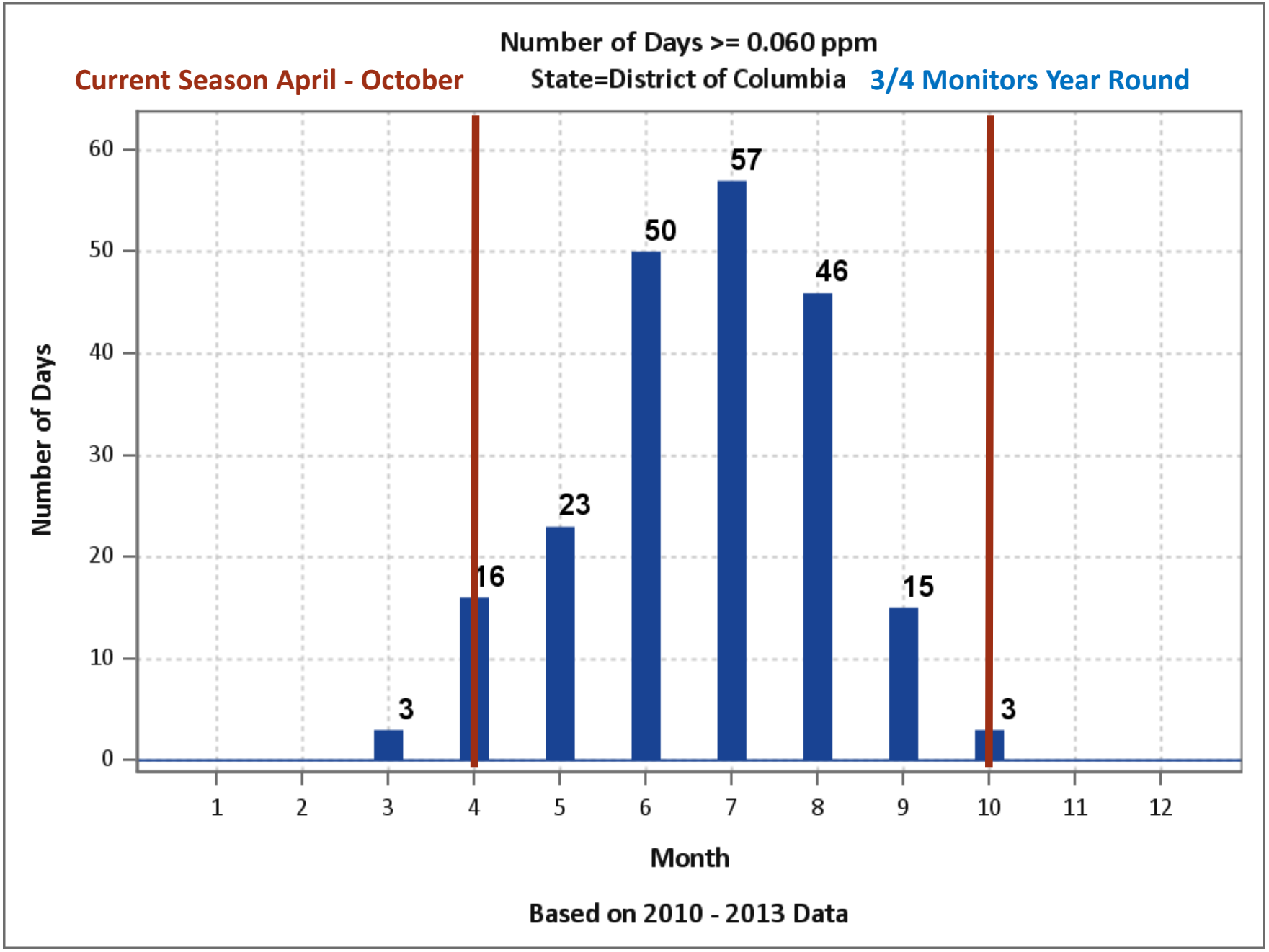

Number of Days >= 0.060 ppm
Current Season March - October
State=Alabama
2/26 Monitors Year Round
Number of Days
0
20
40
60
1
19
39
51
55
42
62
47
23
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

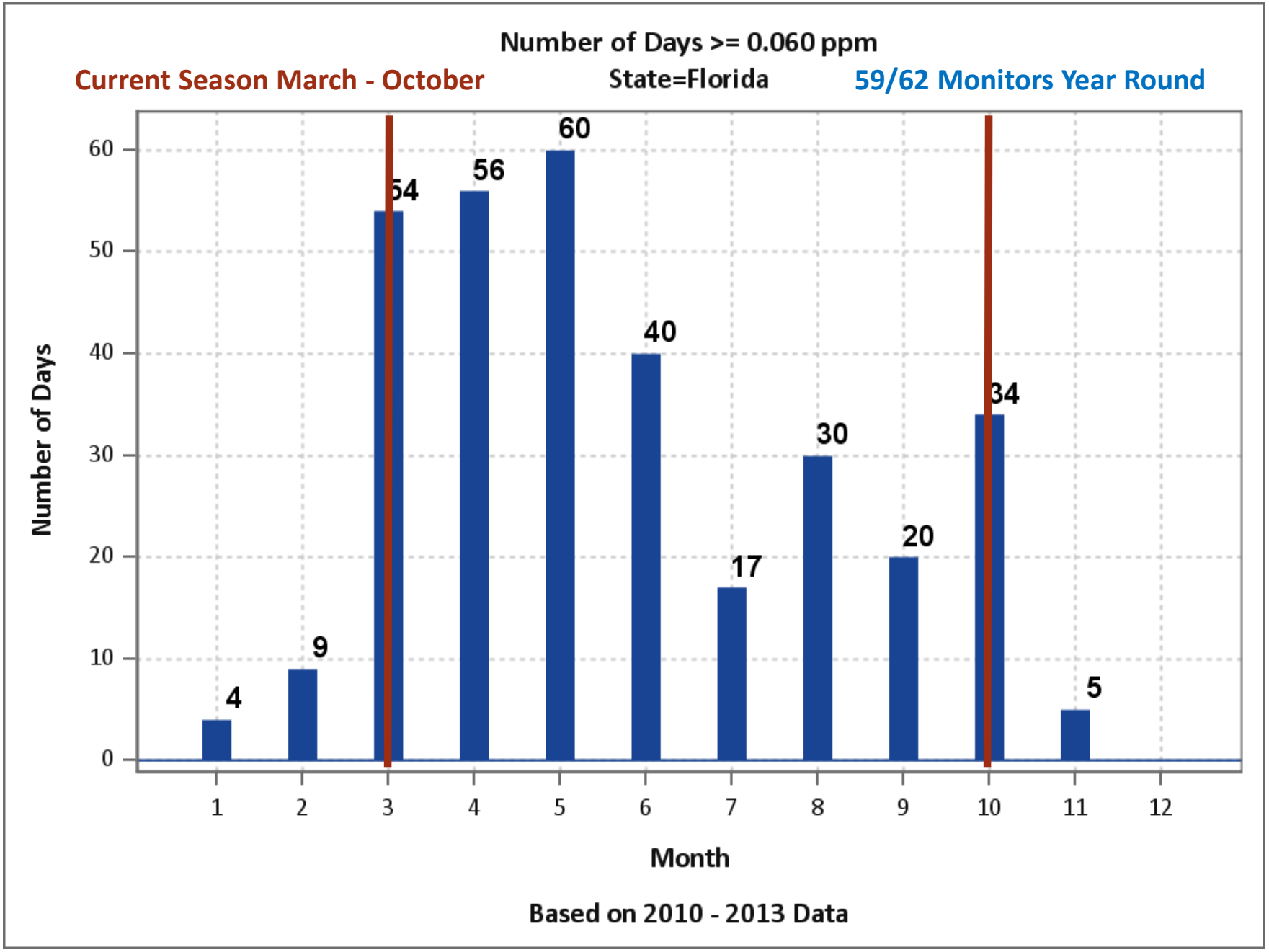

Number of Days >= 0.060 ppm
Current Season March - November
State=Arkansas
9/10 Monitors Year Round
Number of Days
80
60
40
20
0
1
18
31
41
59
47
75
48
21
3
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

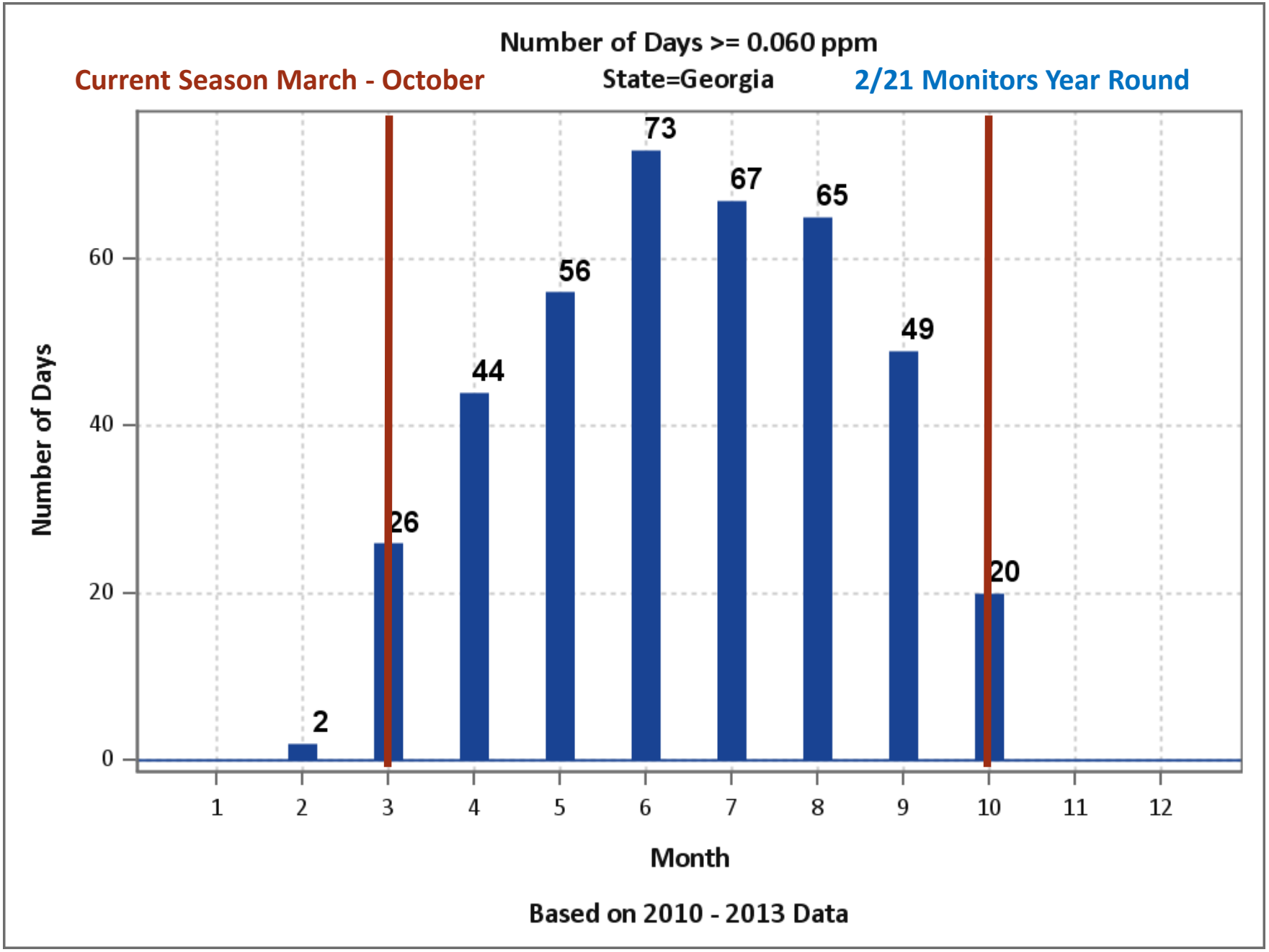

Number of Days >= 0.060 ppm
Current Season March - September
State=Colorado
34/53 Monitors Year Round
Number of Days
125
100
75
50
25
0
24
36
79
86
116
113
121
115
63
9
10
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

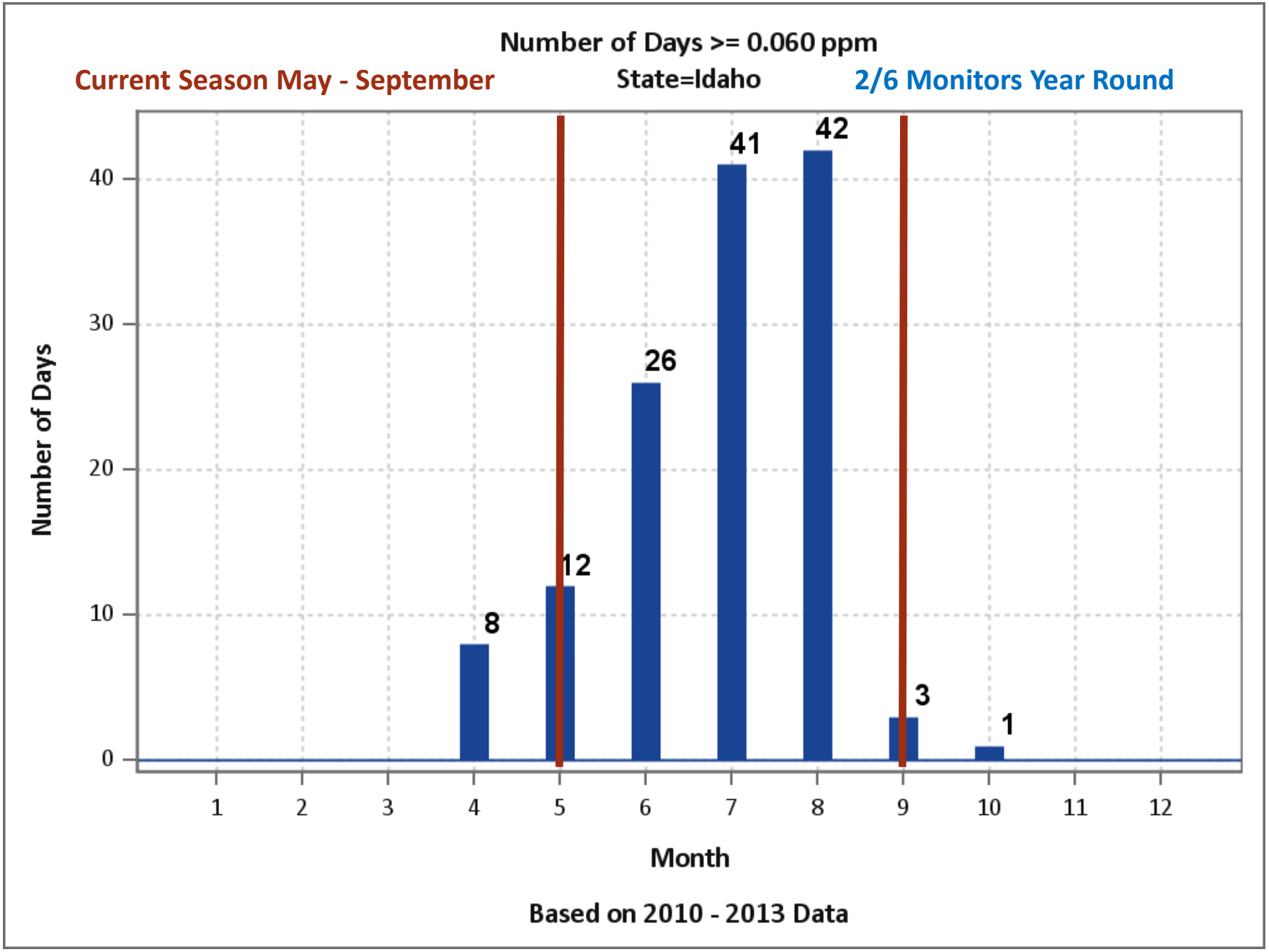

Number of Days >= 0.060 ppm
Current Season April - September
State=Connecticut
3/13 Monitors Year Round
Number of Days
0
20
40
60
3
21
29
49
69
46
20
2
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

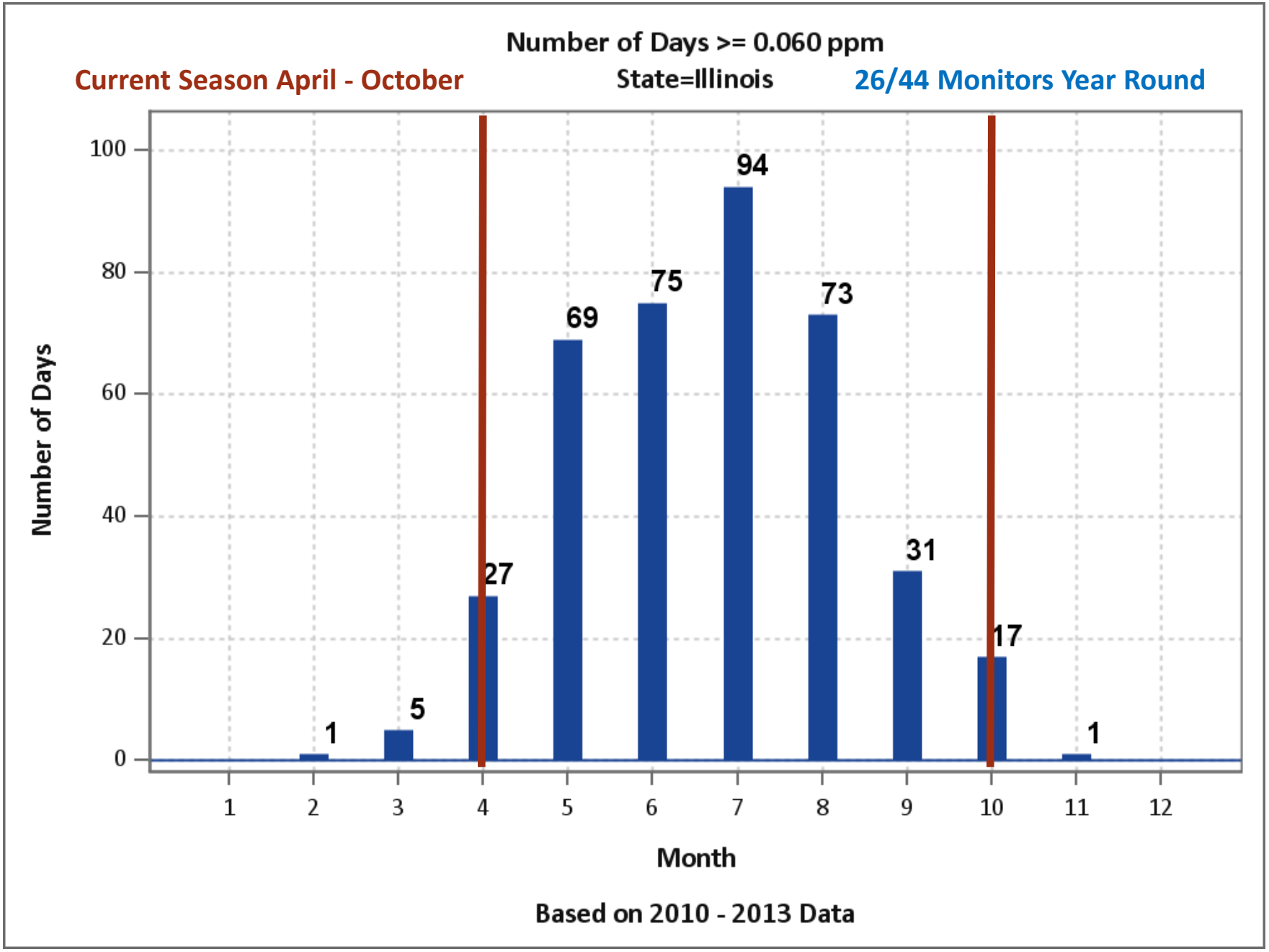

Number of Days >= 0.060 ppm
Current Season April - October
State=Delaware
6/7 Monitors Year Round
Number of Days
0
20
40
60
4
19
26
61
73
42
19
5
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

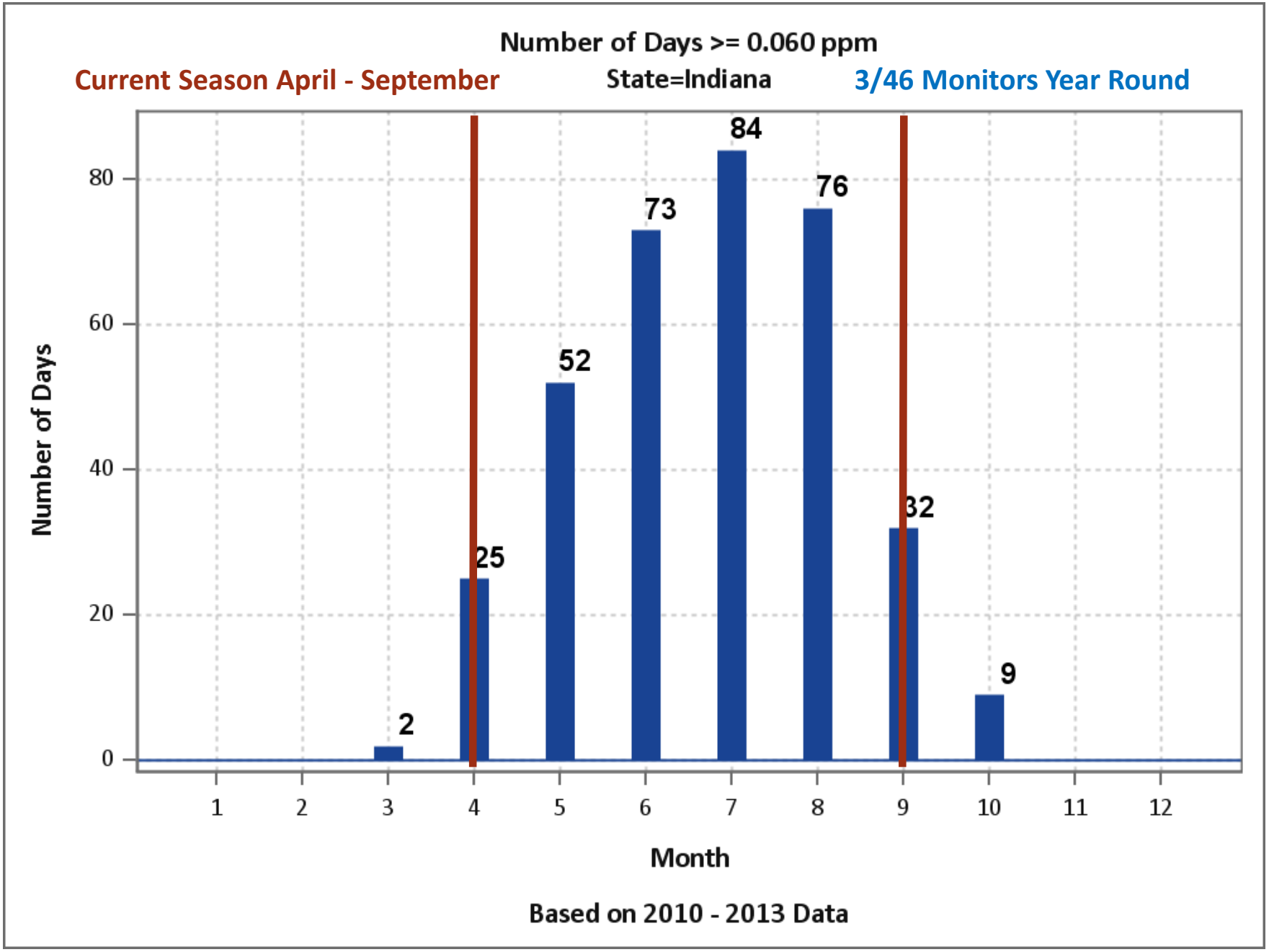

Number of Days >= 0.060 ppm
Current Season April - October
State=District of Columbia
3/4 Monitors Year Round
Number of Days
0
10
20
30
40
50
60
3
16
23
50
57
46
15
3
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

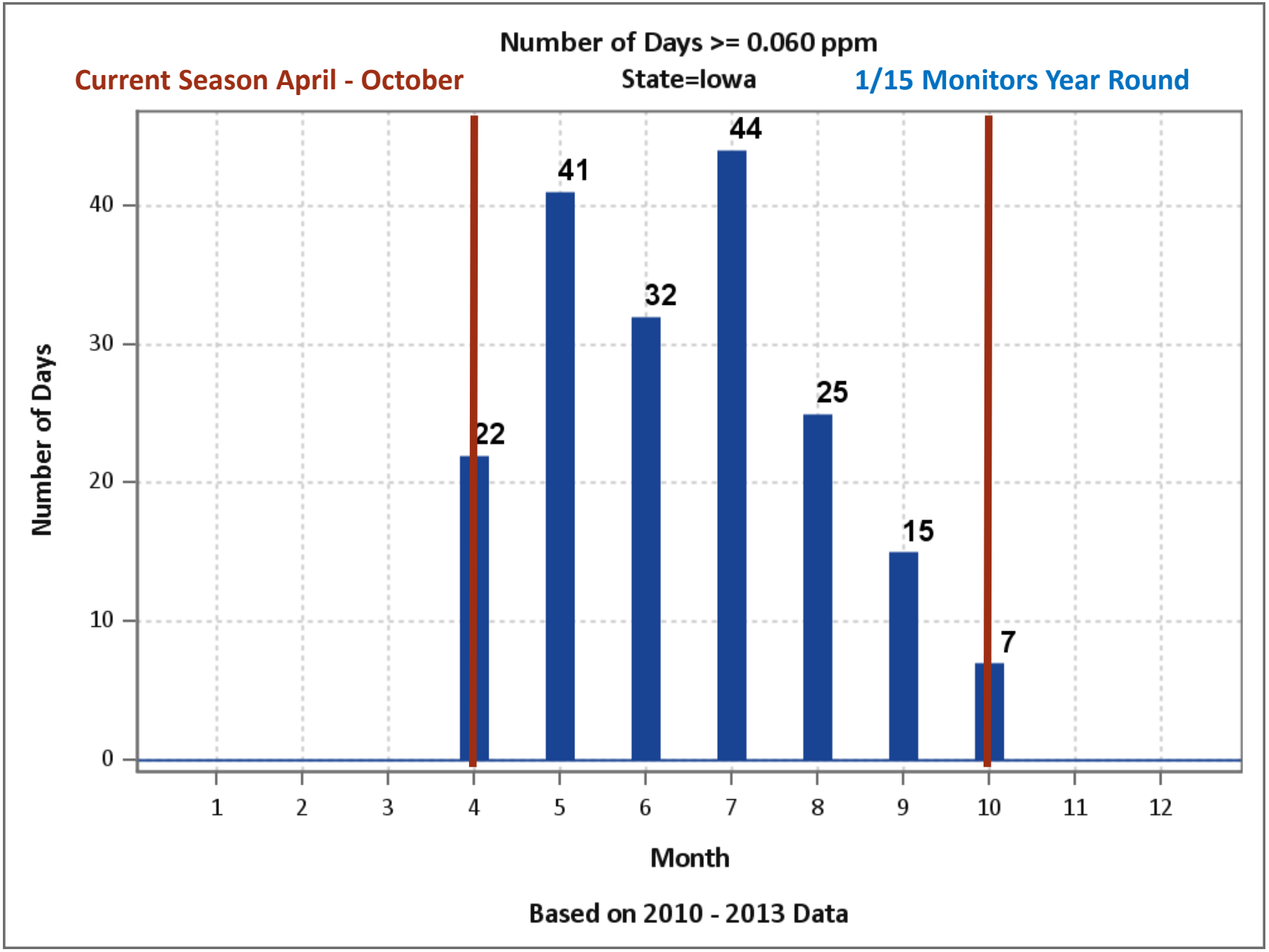

Number of Days >= 0.060 ppm
Current Season March - October
State=Florida
59/62 Monitors Year Round
Number of Days
0
10
20
30
40
50
60
4
9
54
56
60
40
17
30
20
34
5
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

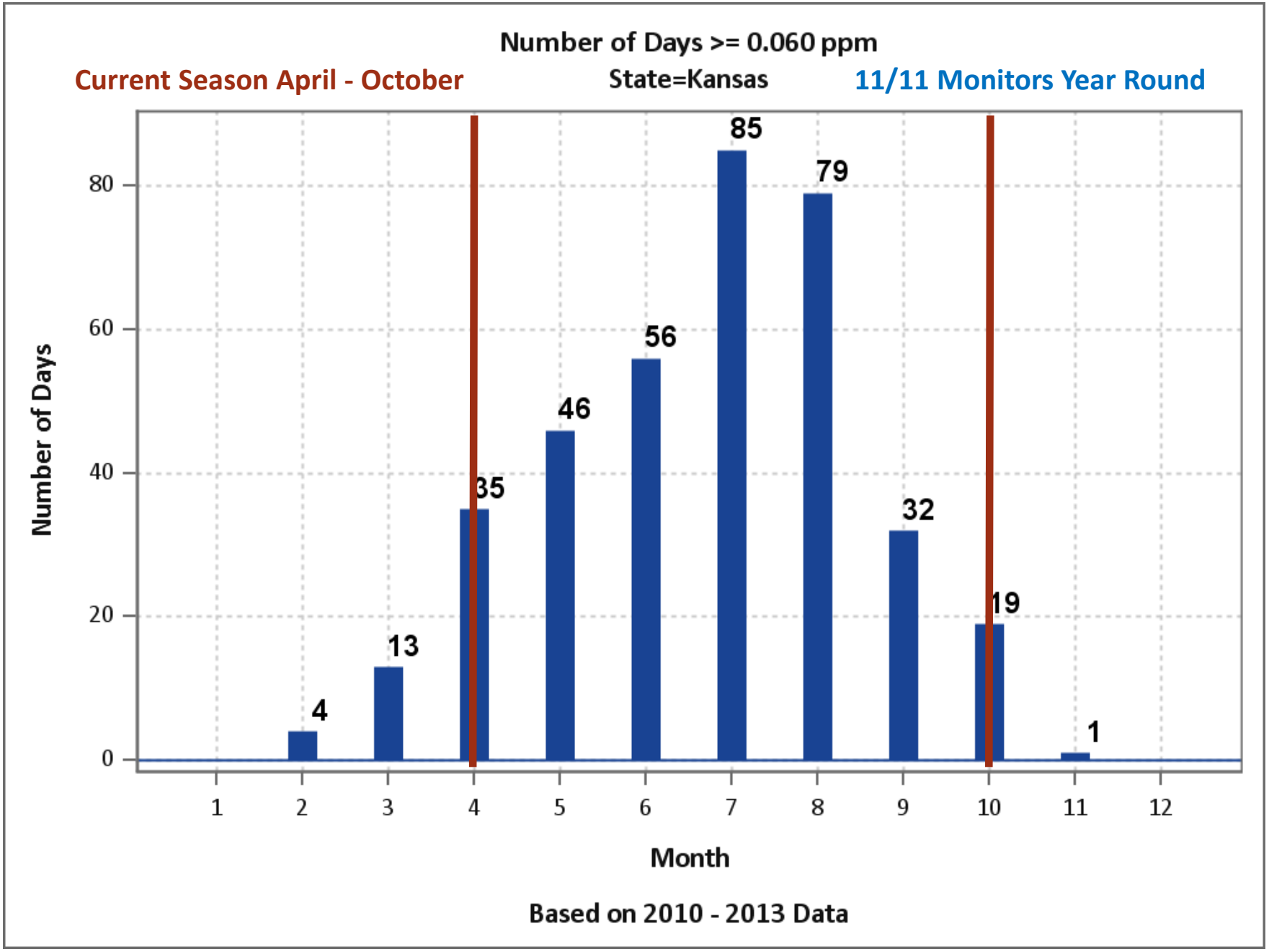

Number of Days >= 0.060 ppm
Current Season March - October
State=Georgia
2/21 Monitors Year Round
Number of Days
0
20
40
60
2
26
44
56
73
67
65
49
20
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

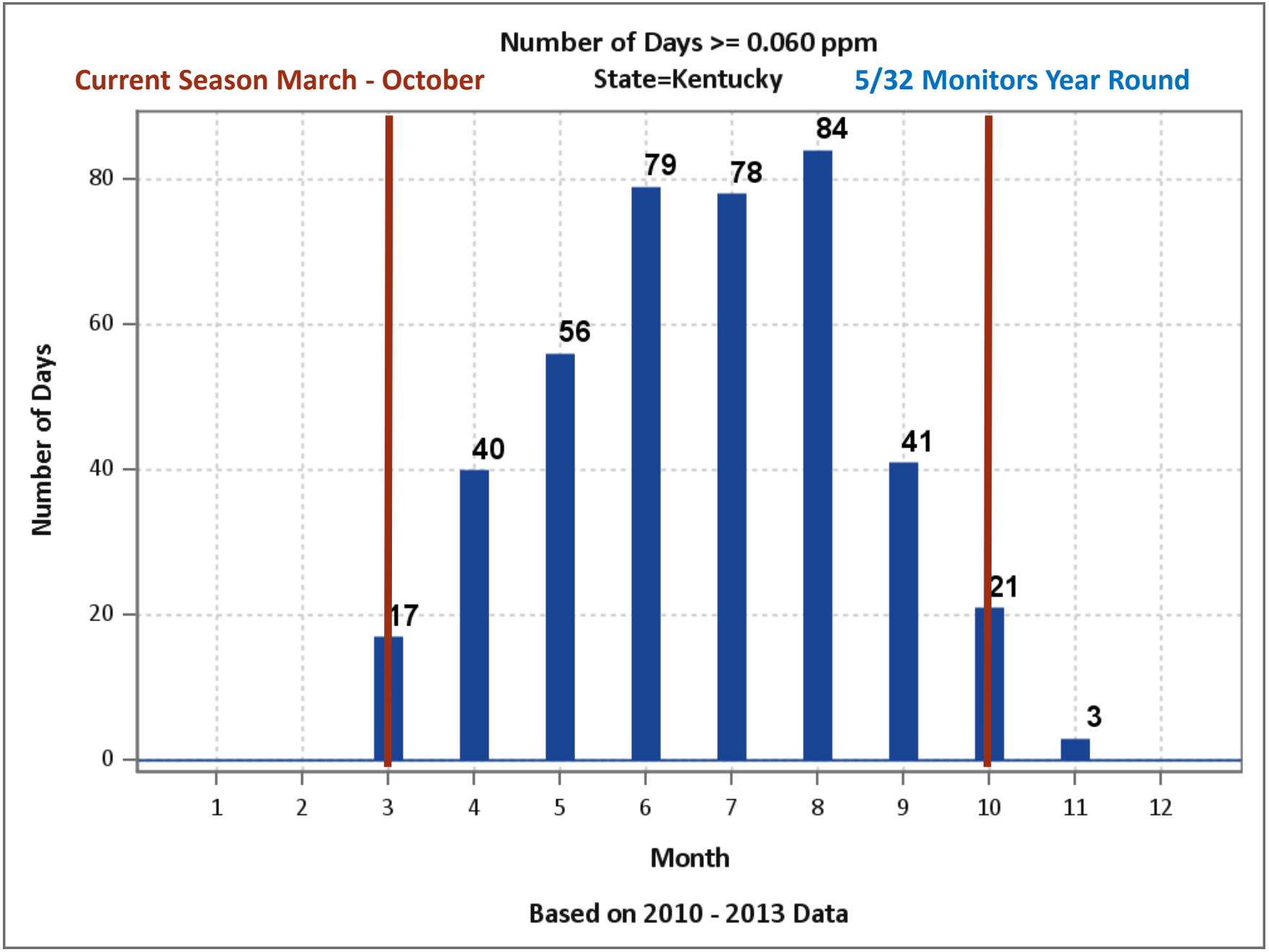

Number of Days >= 0.060 ppm
Current Season May - September
State=Idaho
2/6 Monitors Year Round
Number of Days
0
10
20
30
40
8
12
26
41
42
3
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

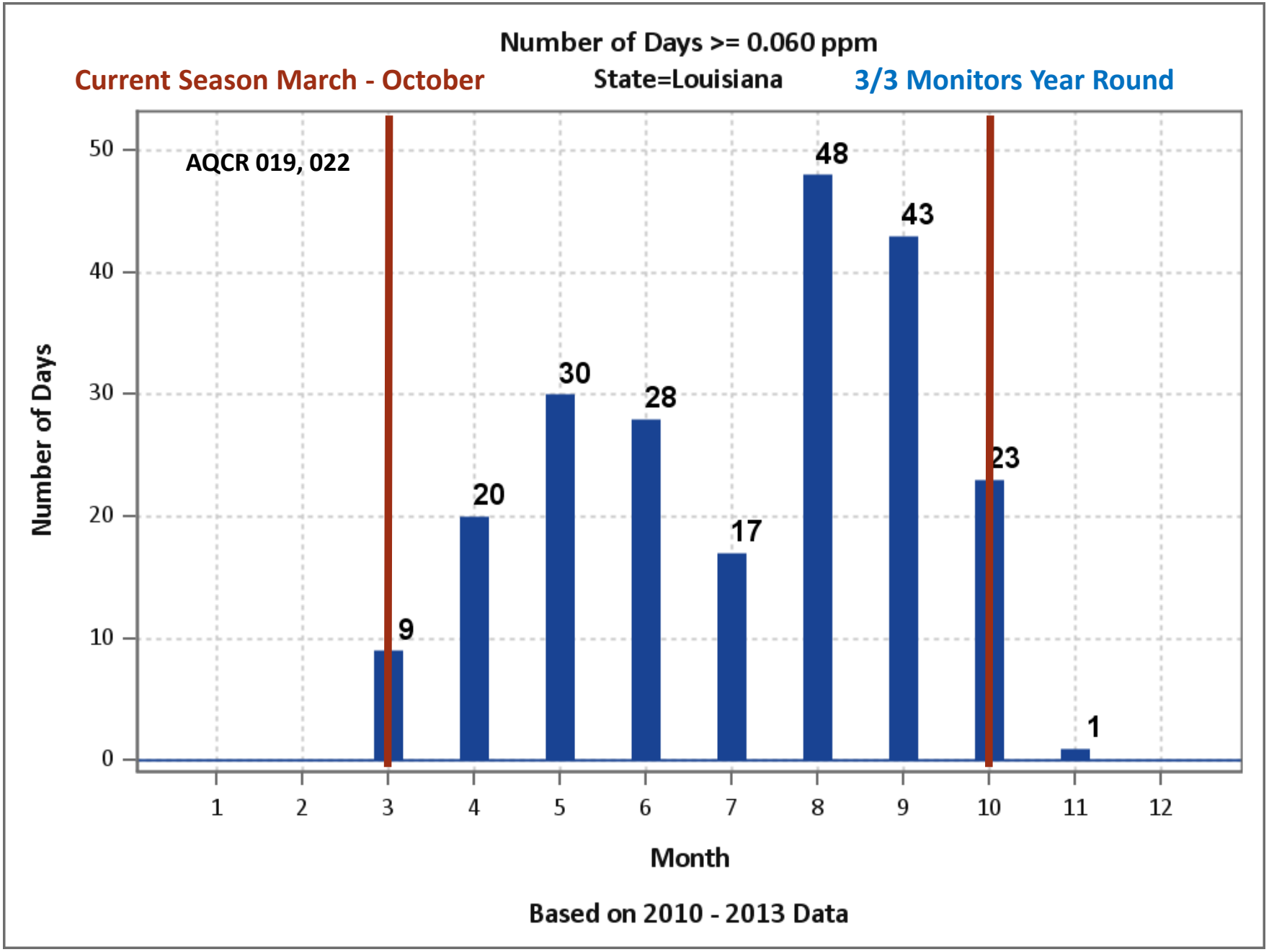

Number of Days >= 0.060 ppm
Current Season April - October
State=Illinois
26/44 Monitors Year Round
Number of Days
100
80
60
40
20
0
1
5
27
69
75
94
73
31
17
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

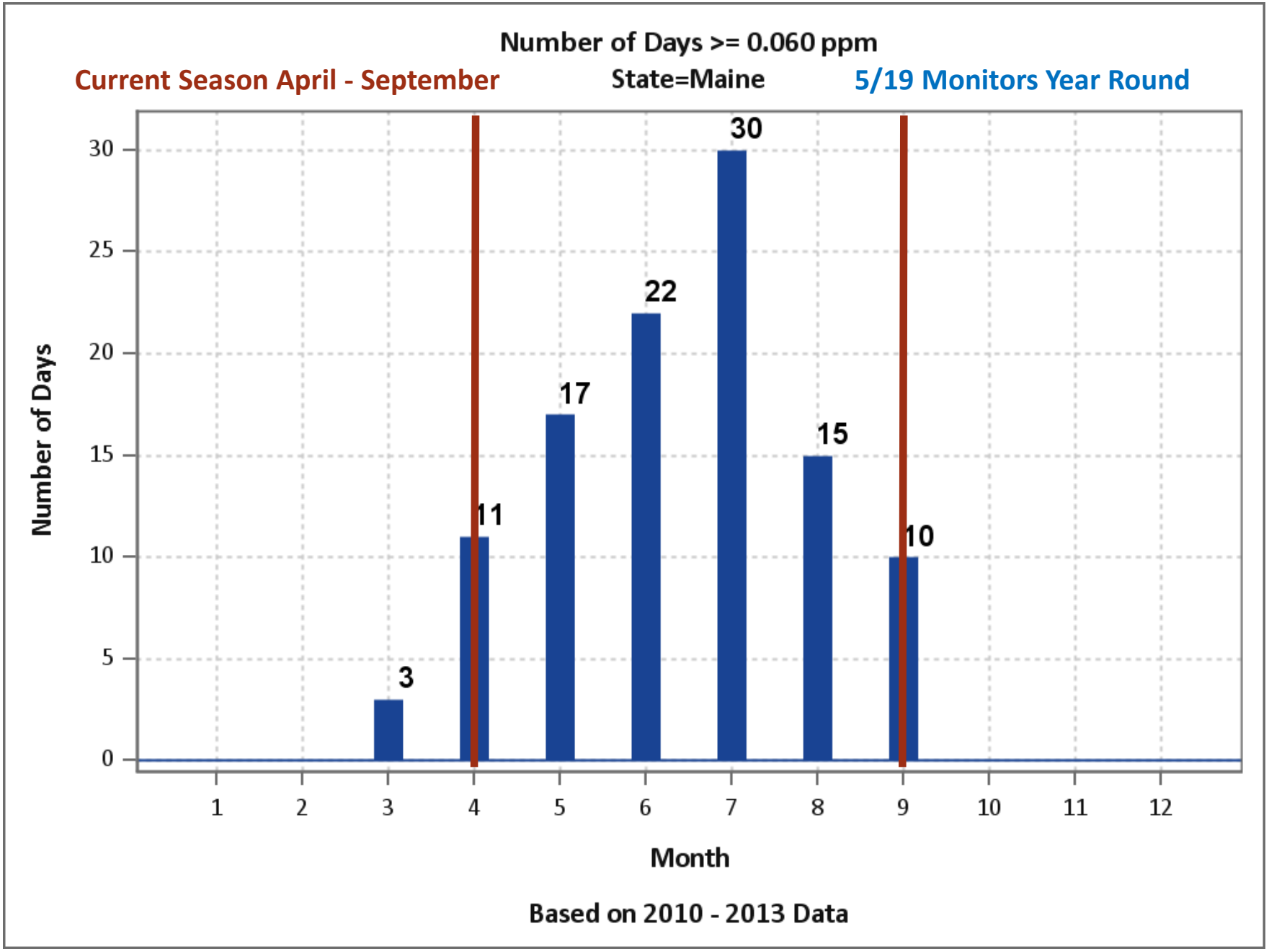

Number of Days >= 0.060 ppm
Current Season April - September
State=Indiana
3/46 Monitors Year Round
Number of Days
0
20
40
60
80
2
25
52
73
84
76
32
9
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

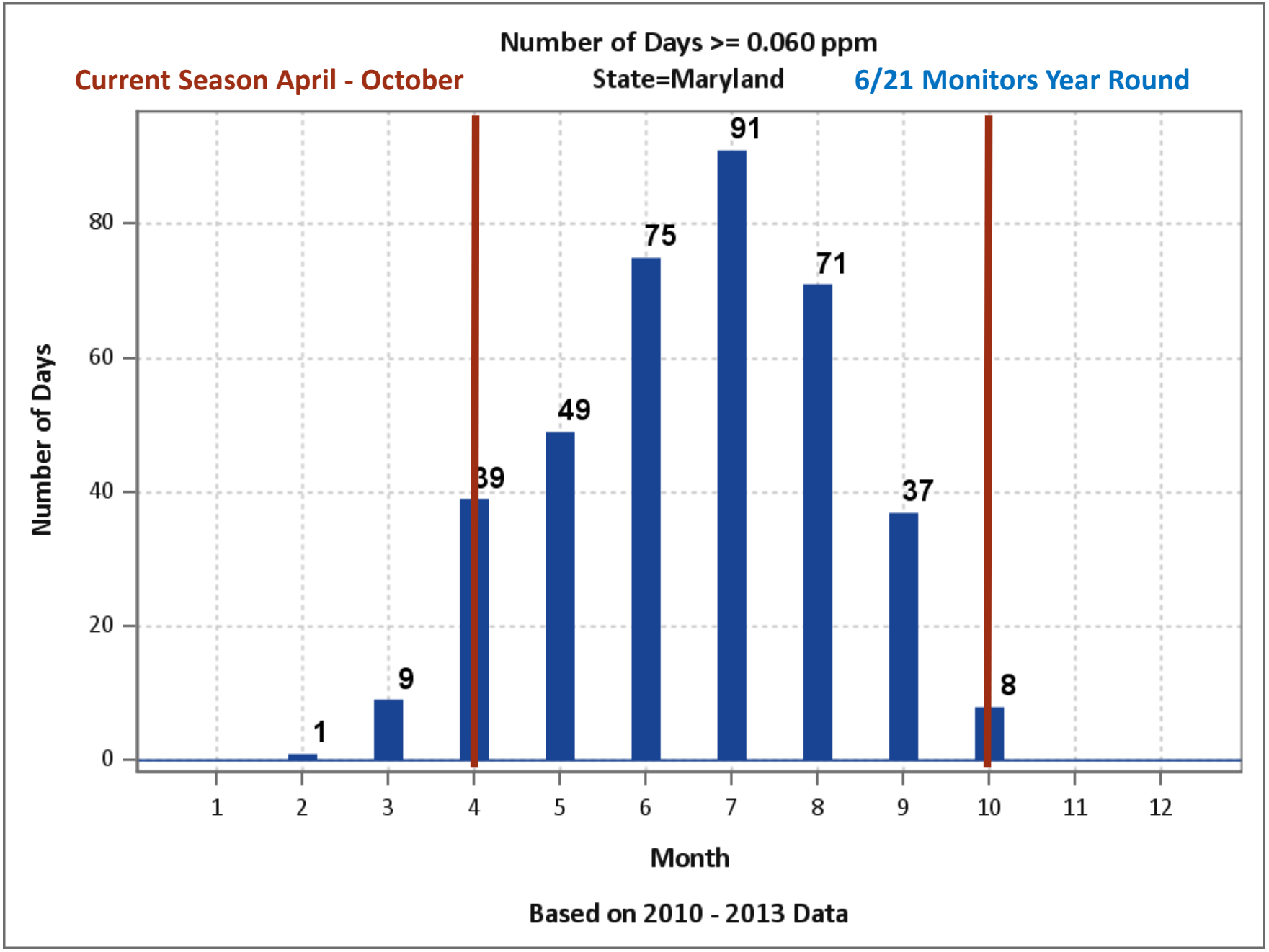

Number of Days >= 0.060 ppm
Current Season April - October
State=Iowa
1/15 Monitors Year Round
Number of Days
0
10
20
30
40
22
41
32
44
25
15
7
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

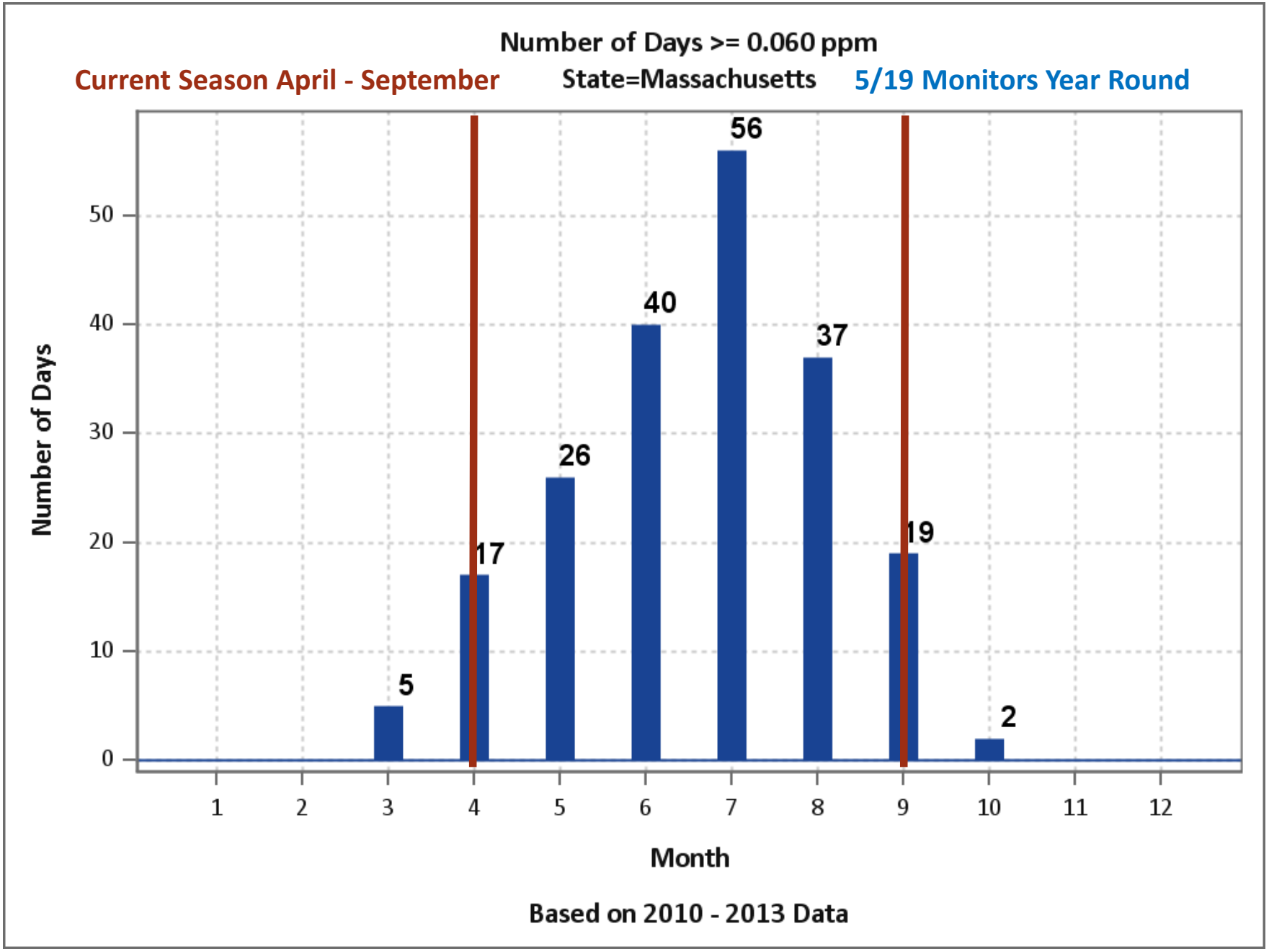

Number of Days >= 0.060 ppm
Current Season April - October
State=Kansas
11/11 Monitors Year Round
Number of Days
0
20
40
60
80
4
13
35
46
56
85
79
32
19
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

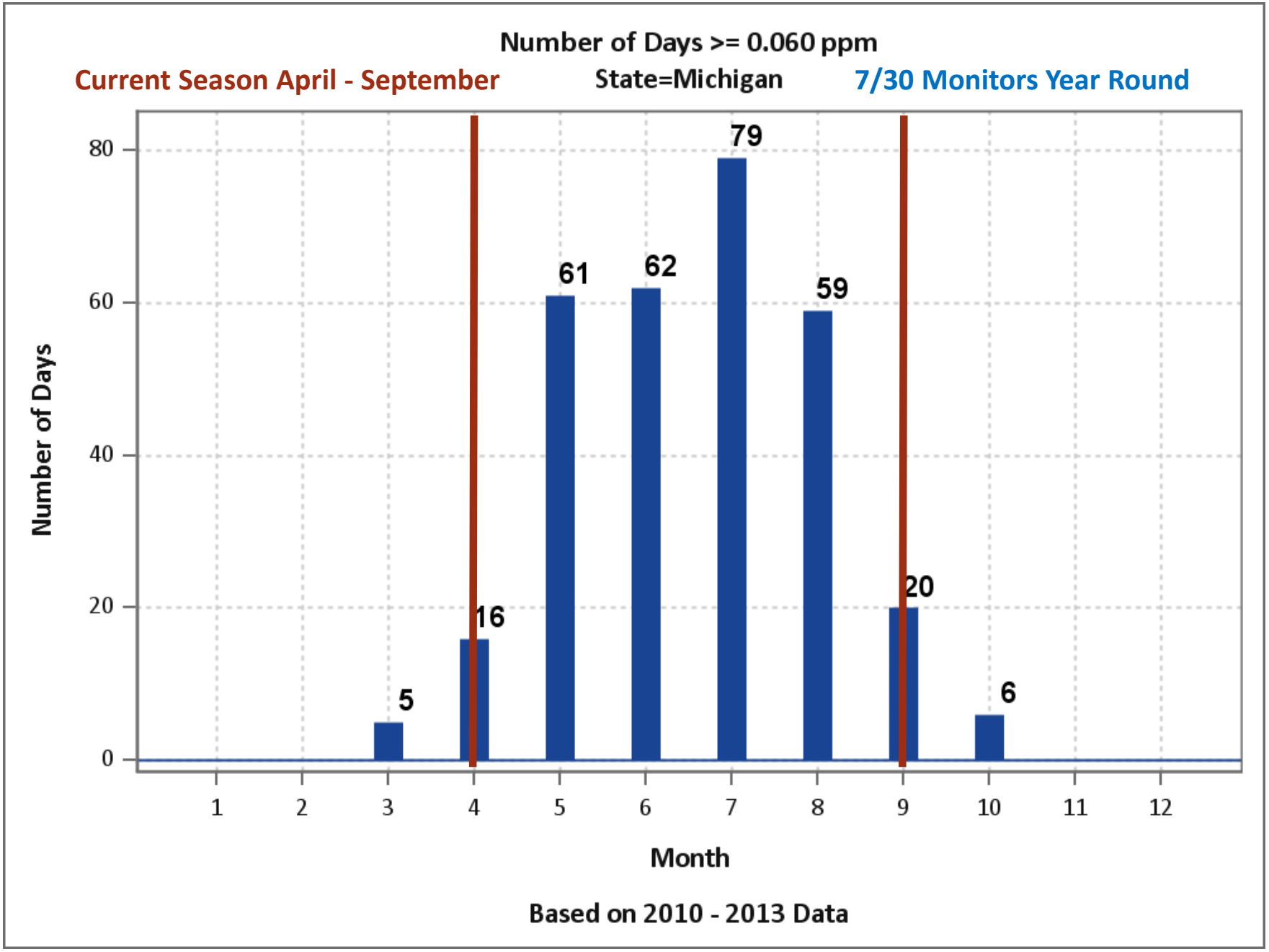

Number of Days >= 0.060 ppm
Current Season March - October
State=Kentucky
5/32 Monitors Year Round
Number of Days
0
20
40
60
80
17
40
56
79
78
84
41
21
3
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

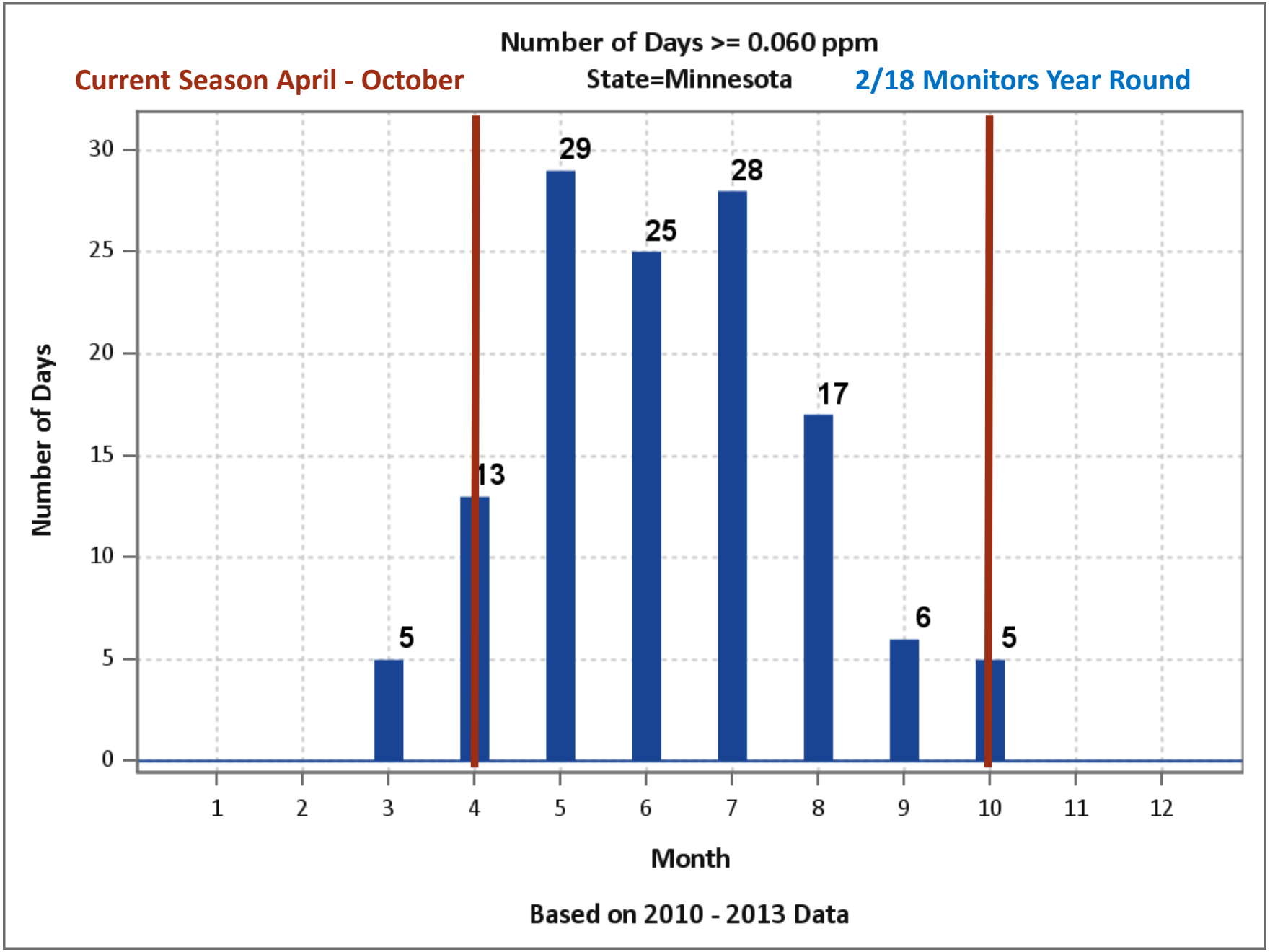

Number of Days >= 0.060 ppm
Current Season March - October
State=Louisiana
3/3 Monitors Year Round
AQCR 019, 022
Number of Days
0
10
20
30
40
50
9
20
30
28
17
48
43
23
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

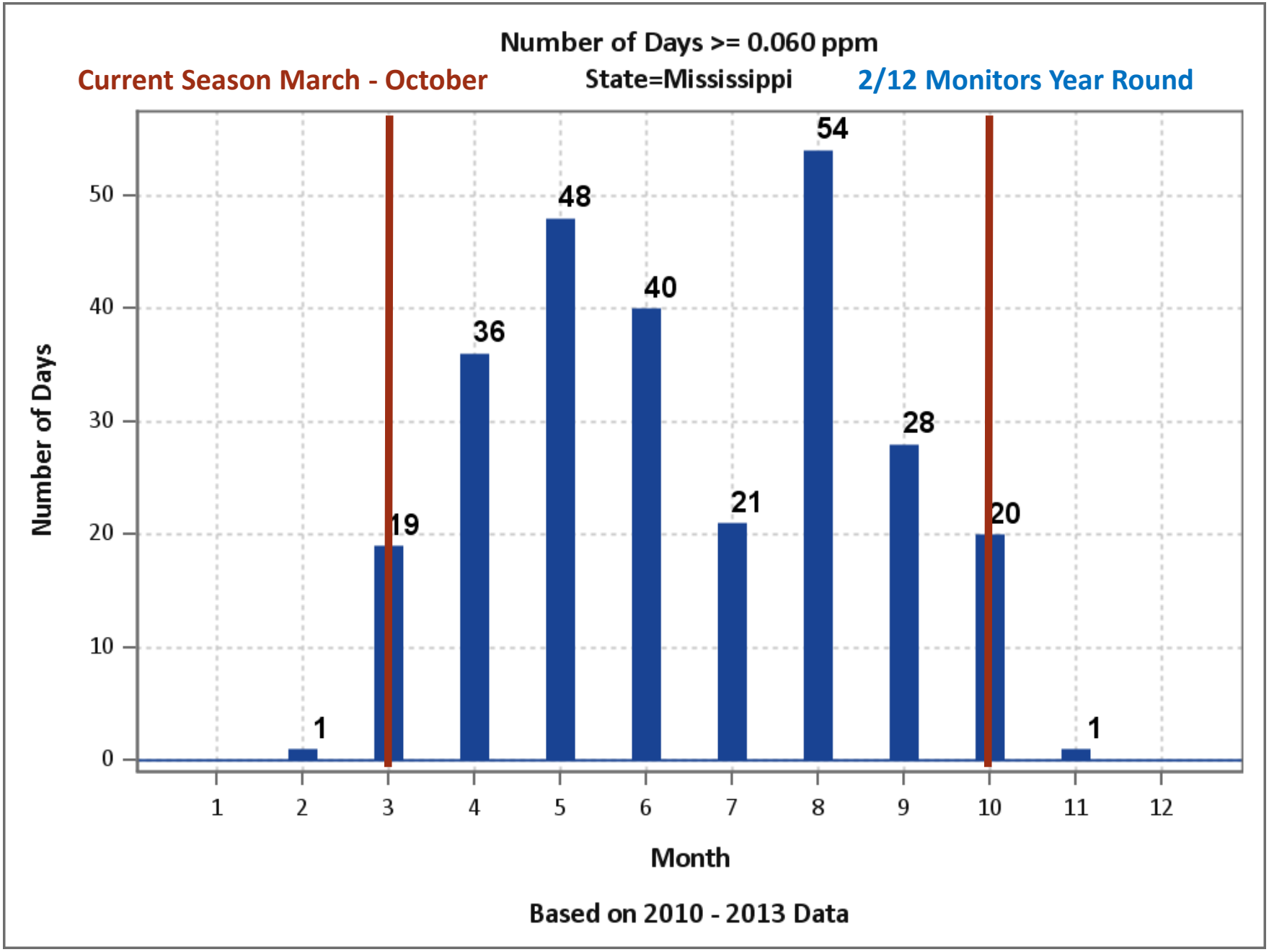

Number of Days >= 0.060 ppm
Current Season April - September
State=Maine
5/19 Monitors Year Round
Number of Days
30
25
20
15
10
5
0
3
11
17
22
30
15
10
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

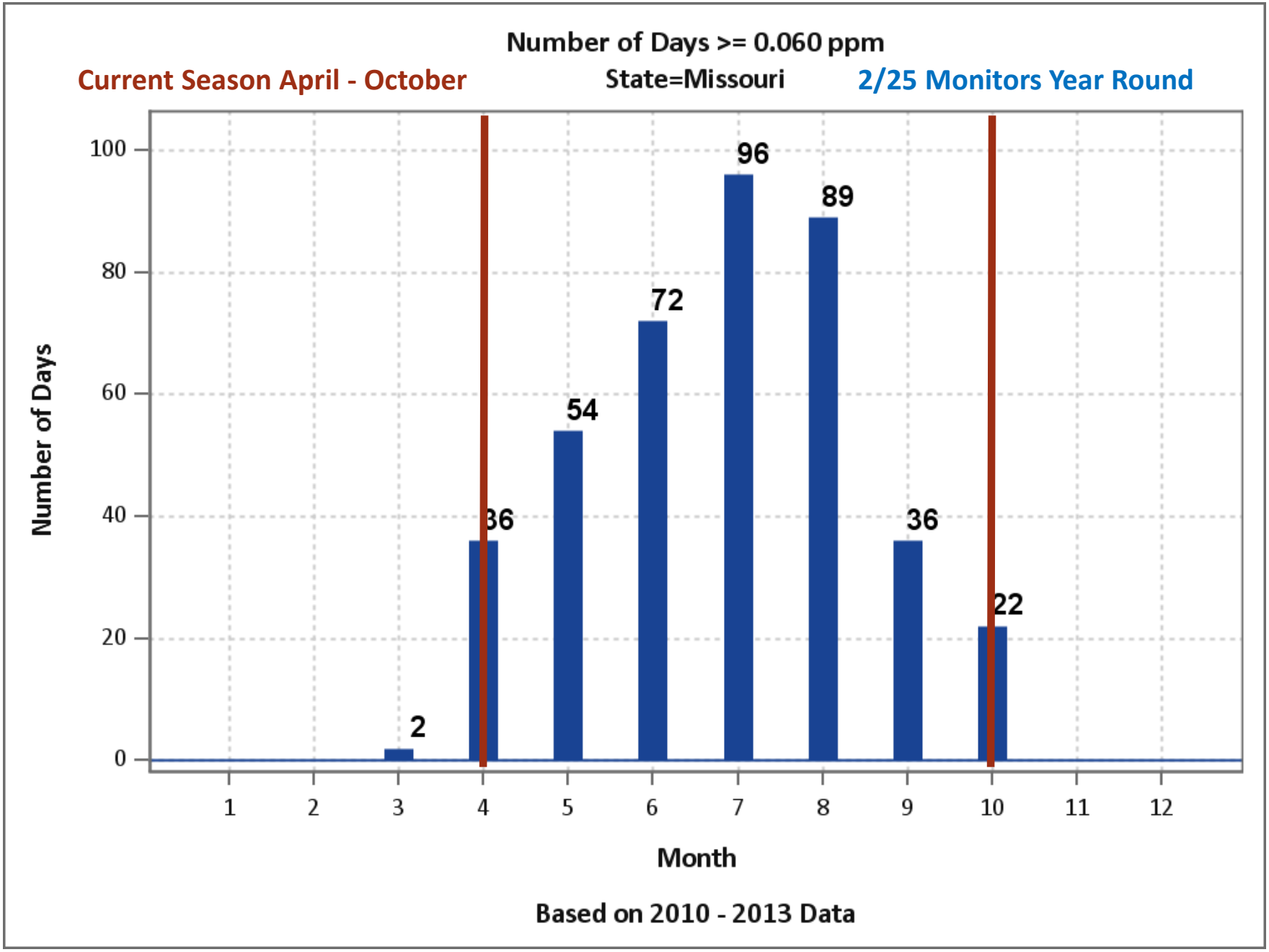

Number of Days >= 0.060 ppm
Current Season April - October
State=Maryland
6/21 Monitors Year Round
Number of Days
0
20
40
60
80
1
9
39
49
75
91
71
37
8
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

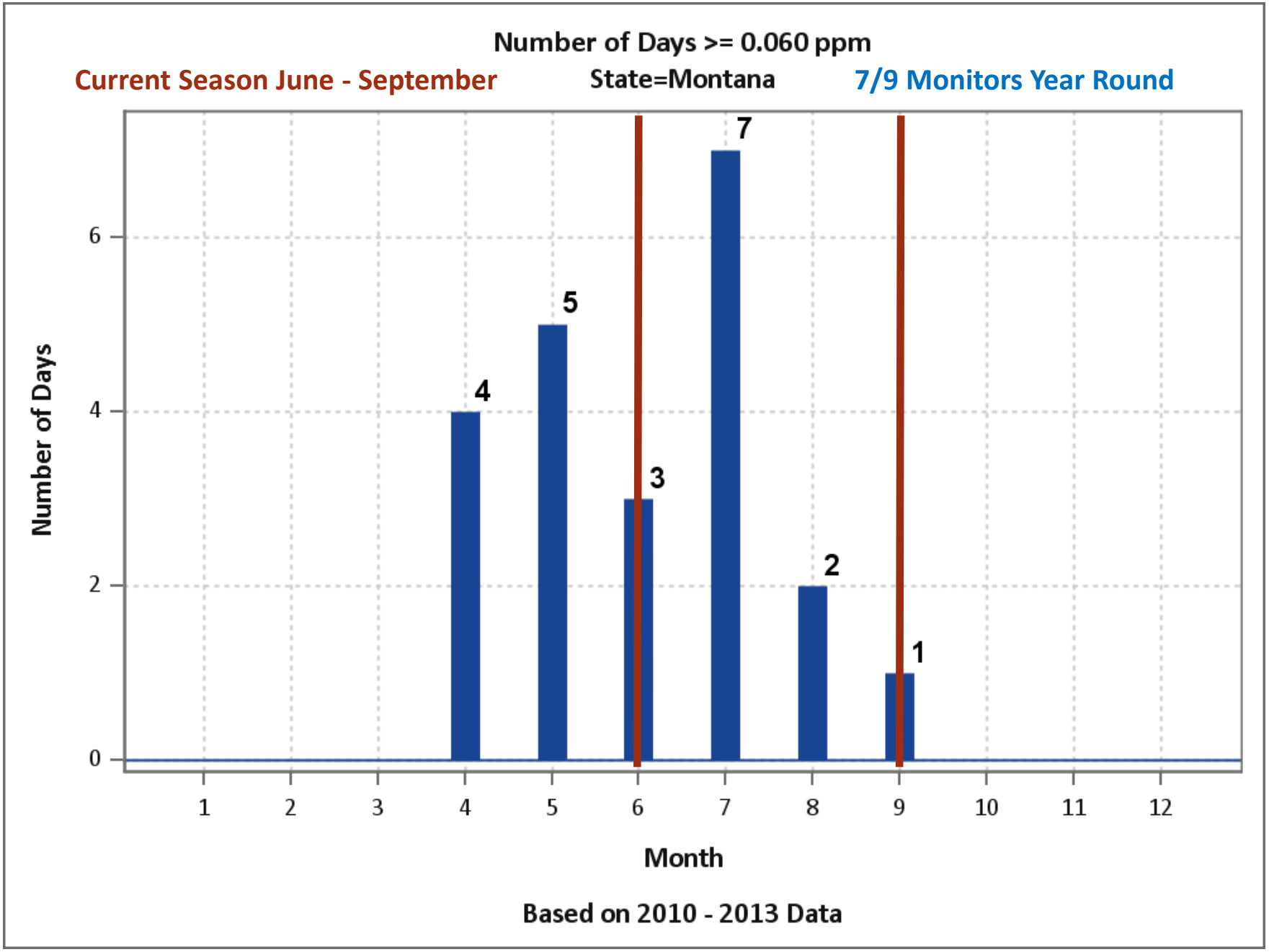

Number of Days >= 0.060 ppm
Current Season April - September
State=Massachusetts
5/19 Monitors Year Round
Number of Days
0
10
20
30
40
50
5
17
26
40
56
37
19
2
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

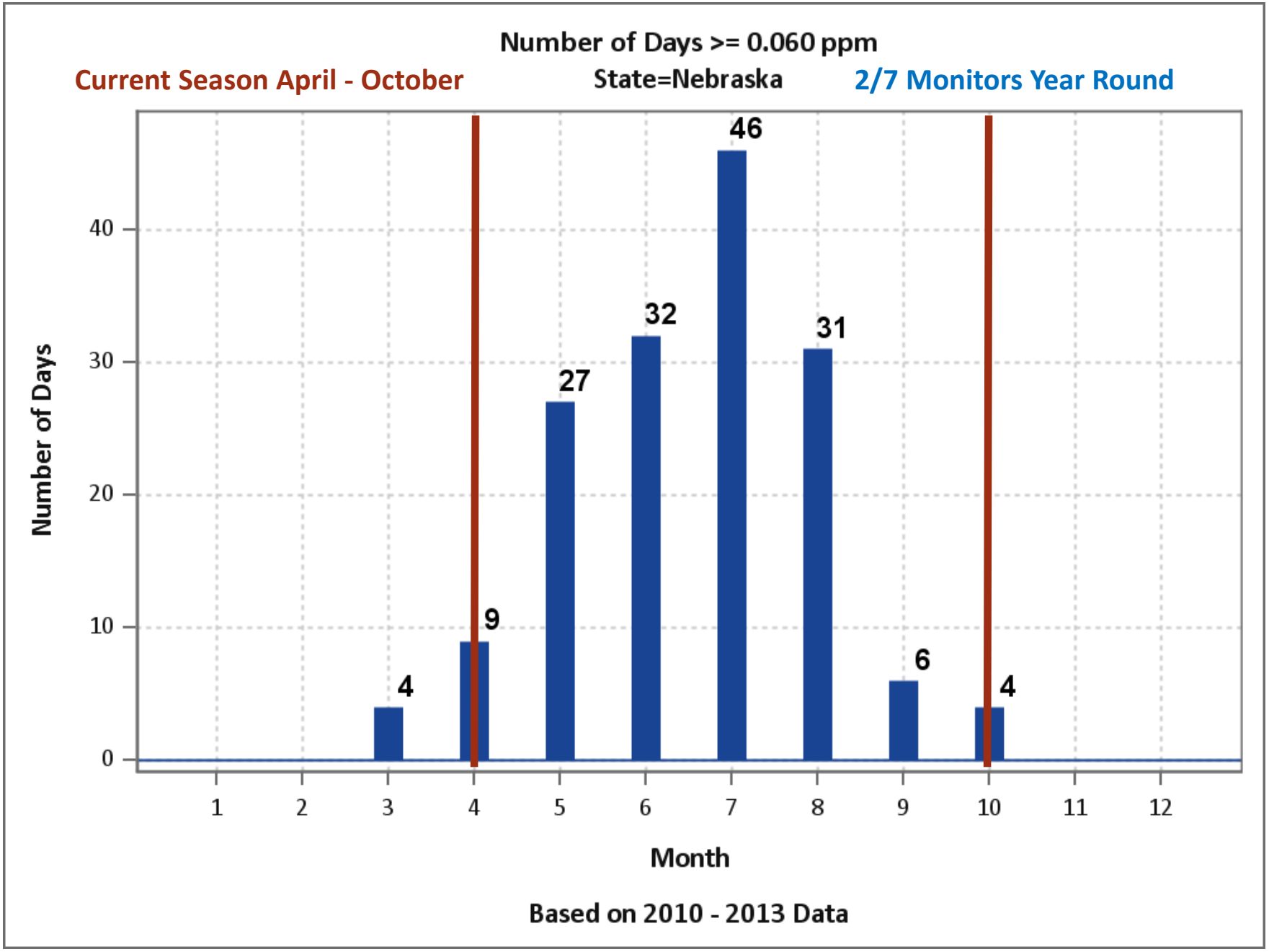

Number of Days >= 0.060 ppm
Current Season April - September
State=Michigan
7/30 Monitors Year Round
Number of Days
80
60
40
20
0
5
16
61
62
79
59
20
6
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

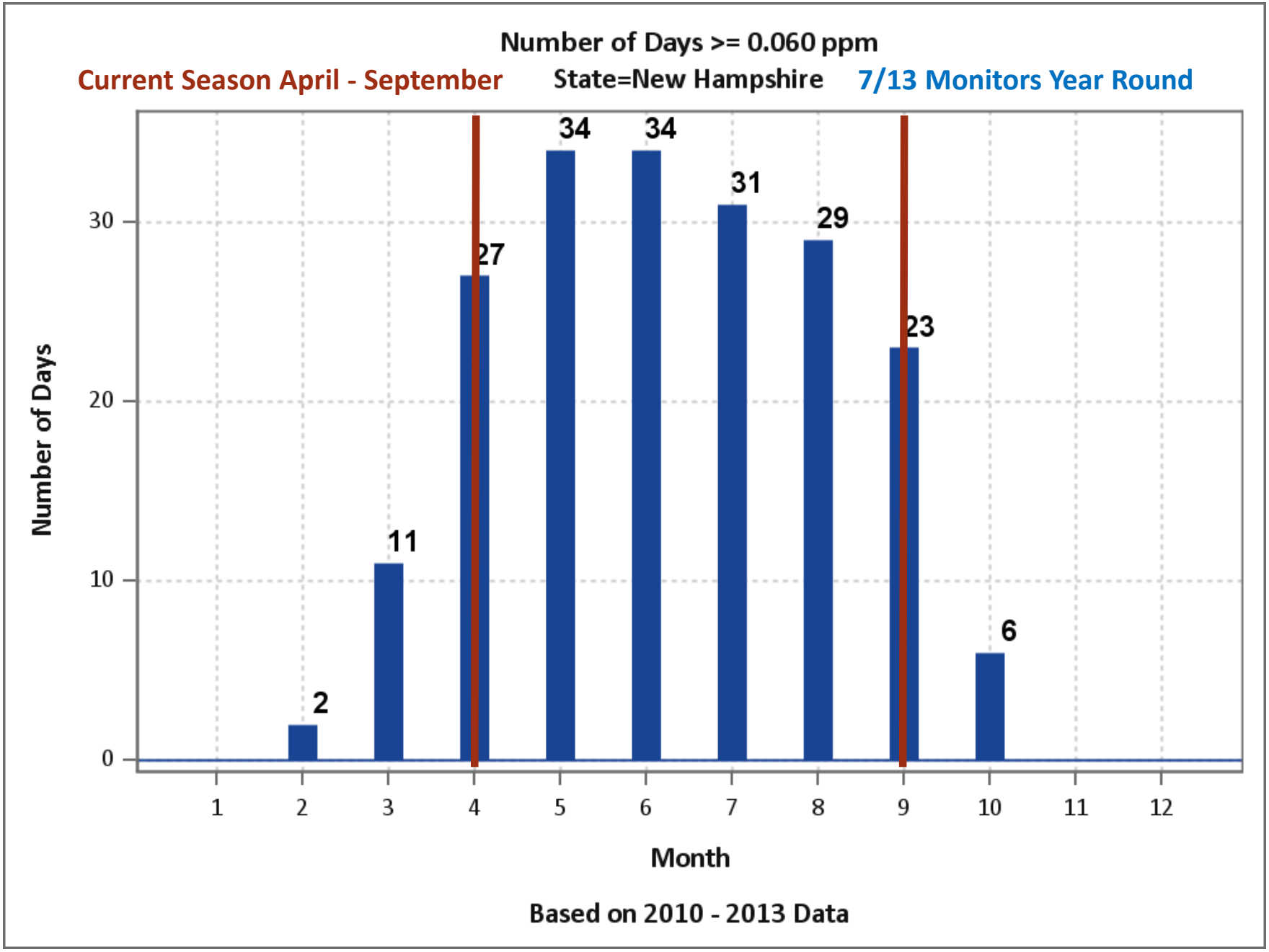

Number of Days >= 0.060 ppm
Current Season April - October
State=Minnesota
2/18 Monitors Year Round
Number of Days
30
25
20
15
10
5
0
5
13
29
25
28
17
6
5
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

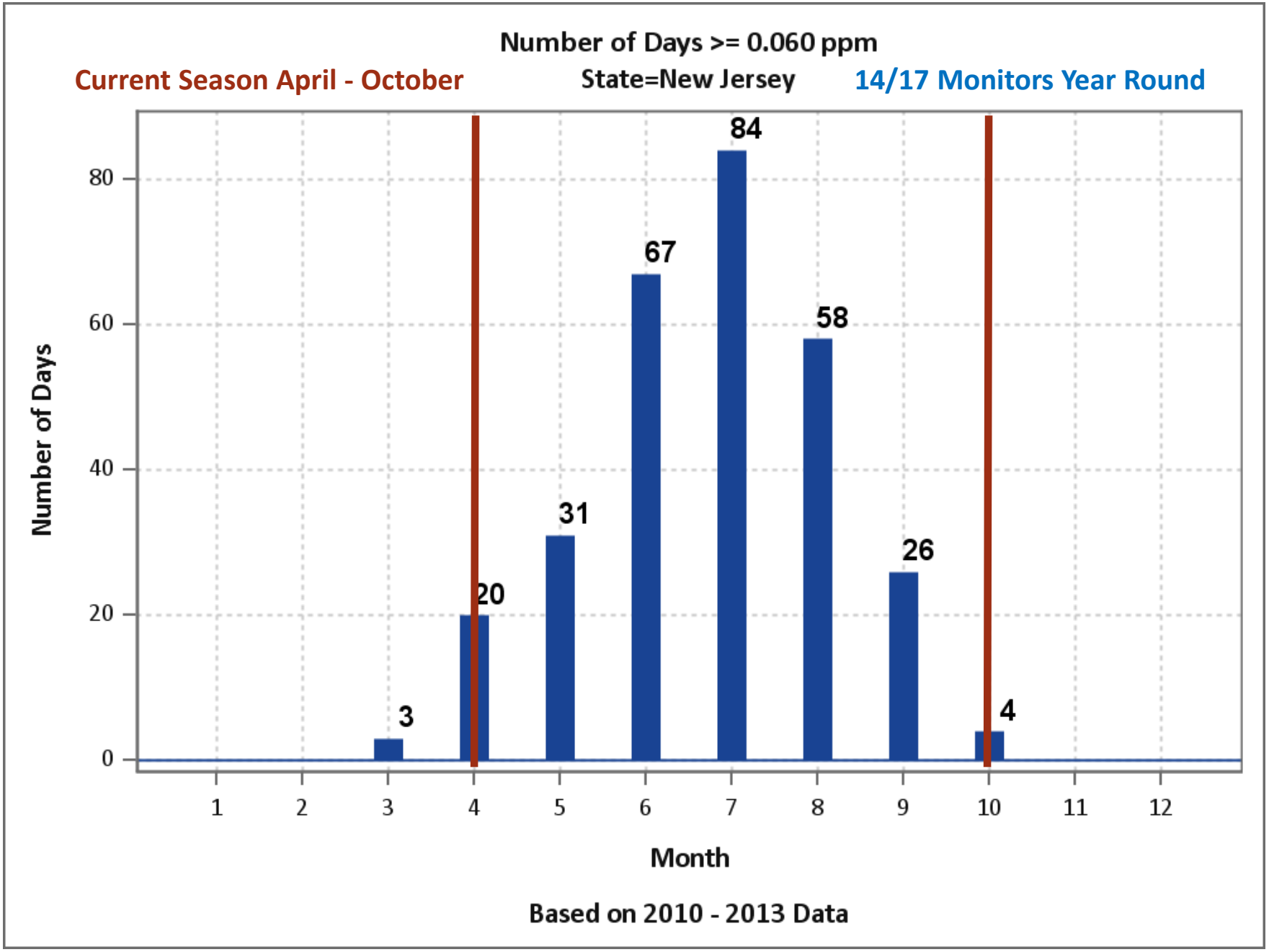

Number of Days >= 0.060 ppm
Current Season March - October
State=Mississippi
2/12 Monitors Year Round
Number of Days
0
10
20
30
40
50
1
19
36
48
40
21
54
28
20
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

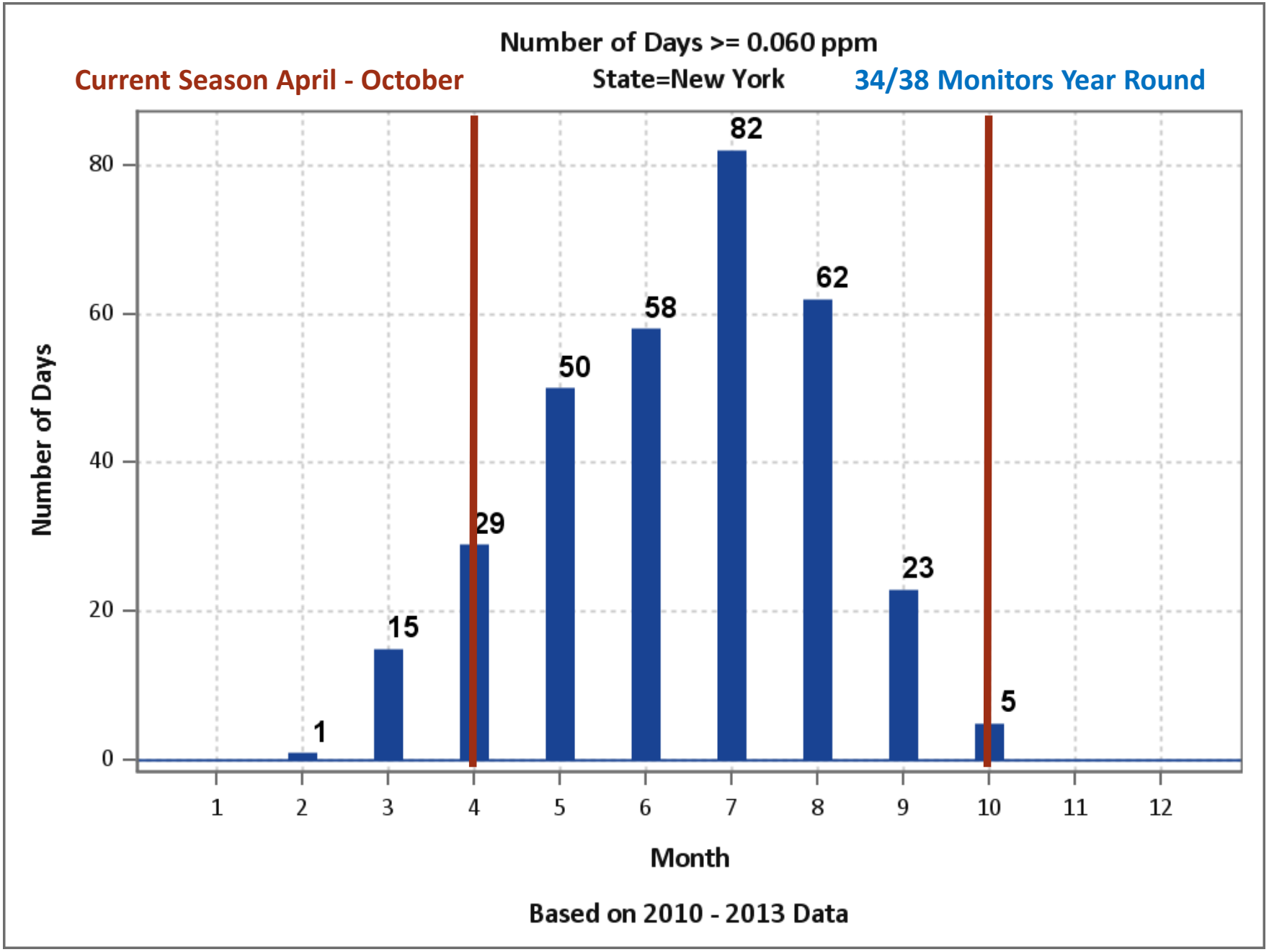

Number of Days >= 0.060 ppm
Current Season April - October
State=Missouri
2/25 Monitors Year Round
Number of Days
100
80
60
40
20
0
2
36
54
72
96
89
36
22
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

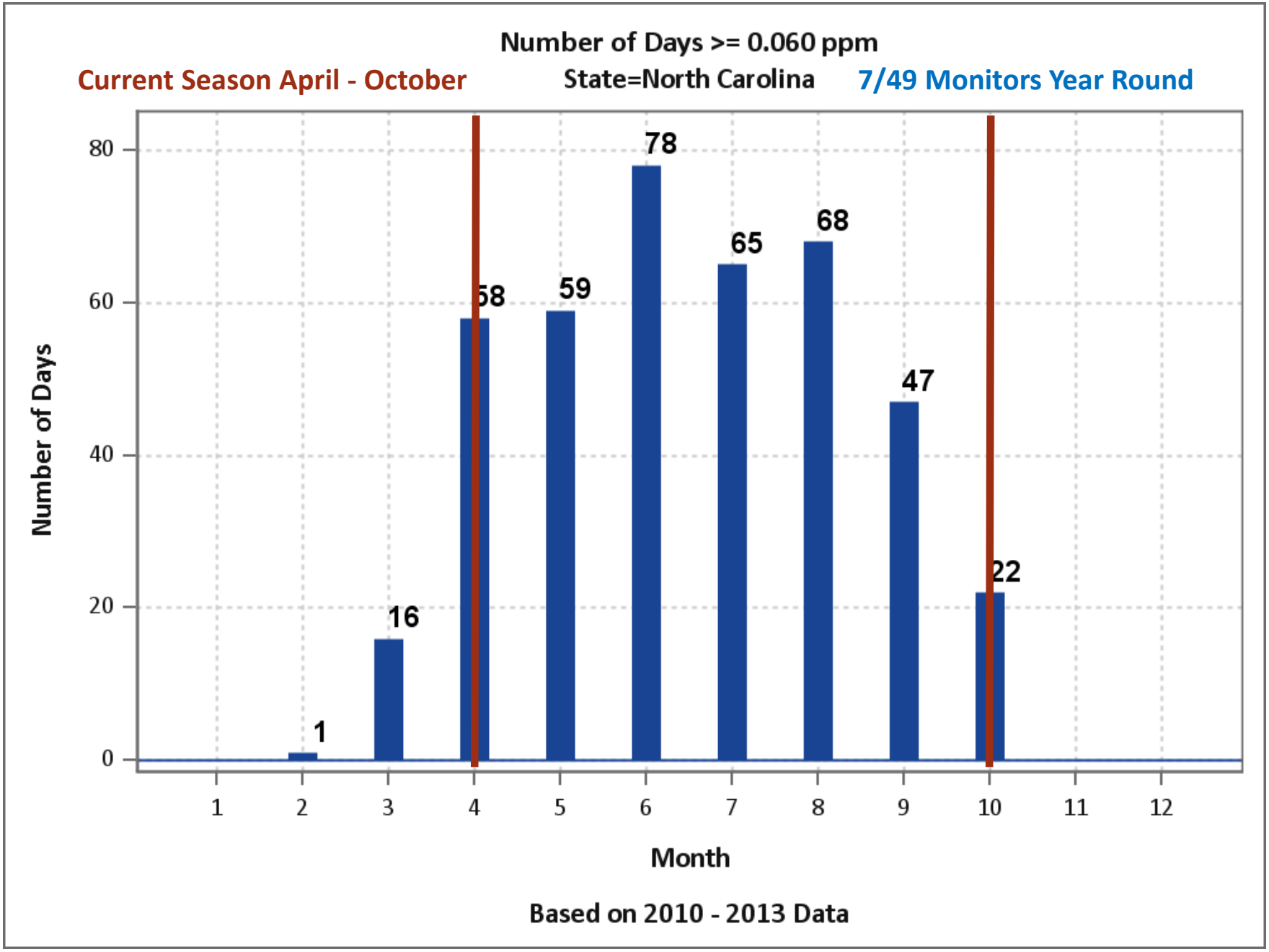

Number of Days >= 0.060 ppm
Current Season June - September
State=Montana
7/9 Monitors Year Round
Number of Days
0
2
4
6
4
5
3
7
2
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

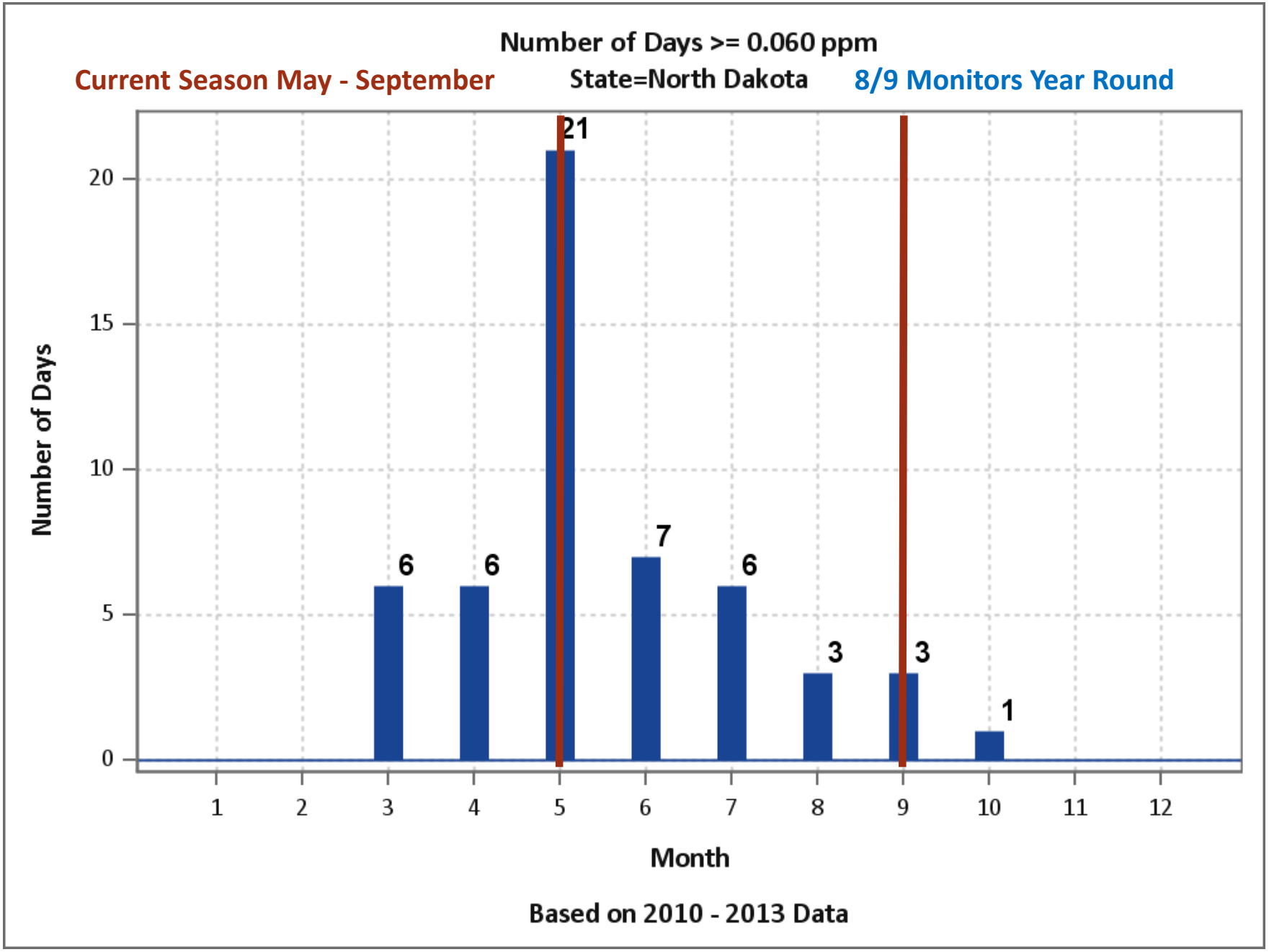

Number of Days >= 0.060 ppm
Current Season April - October
State=Nebraska
2/7 Monitors Year Round
Number of Days
0
10
20
30
40
4
9
27
32
46
31
6
4
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

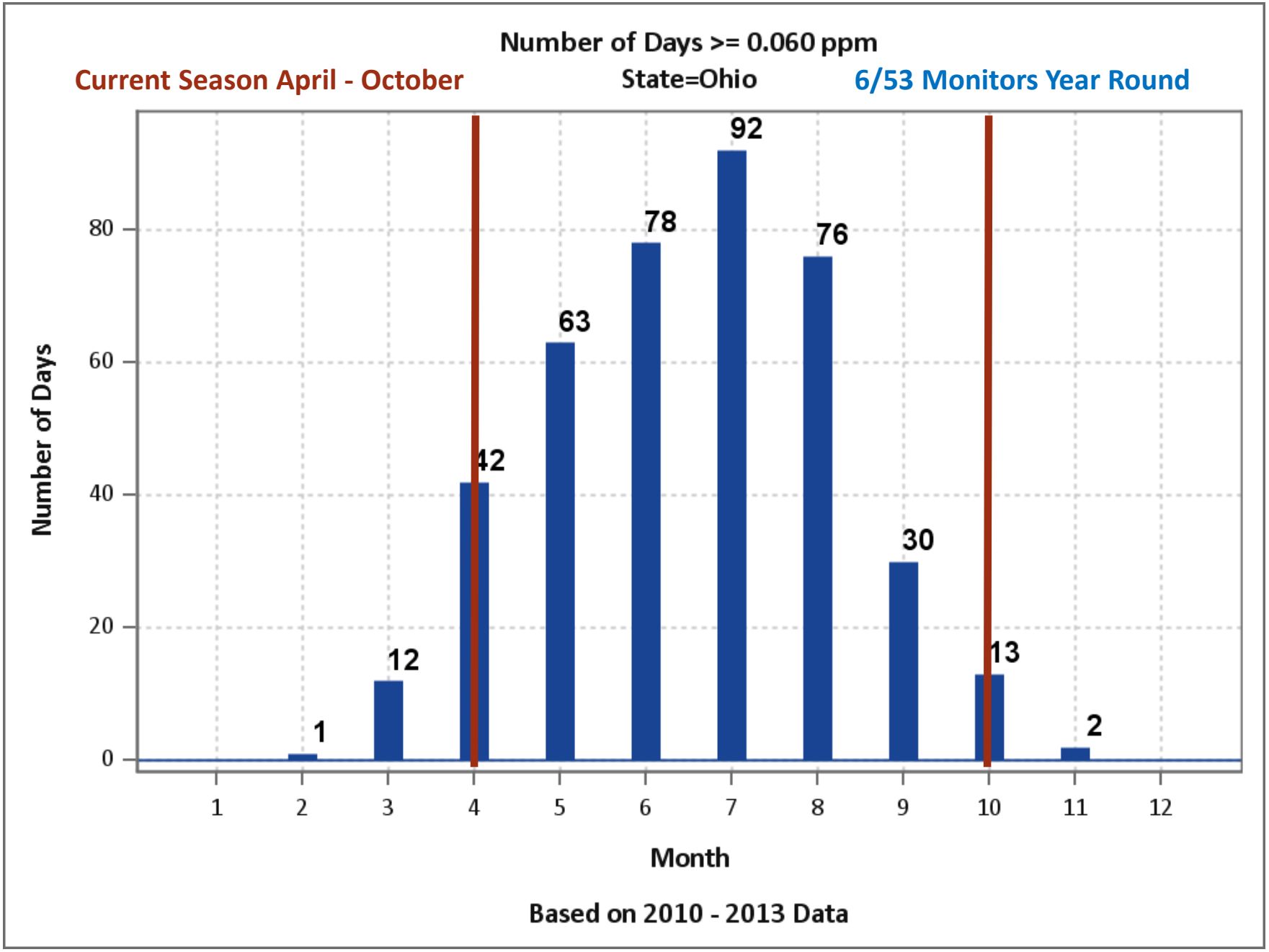

Number of Days >= 0.060 ppm
Current Season April - September
State=New Hampshire
7/13 Monitors Year Round
Number of Days
0
10
20
30
2
11
27
34
34
31
29
23
6
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

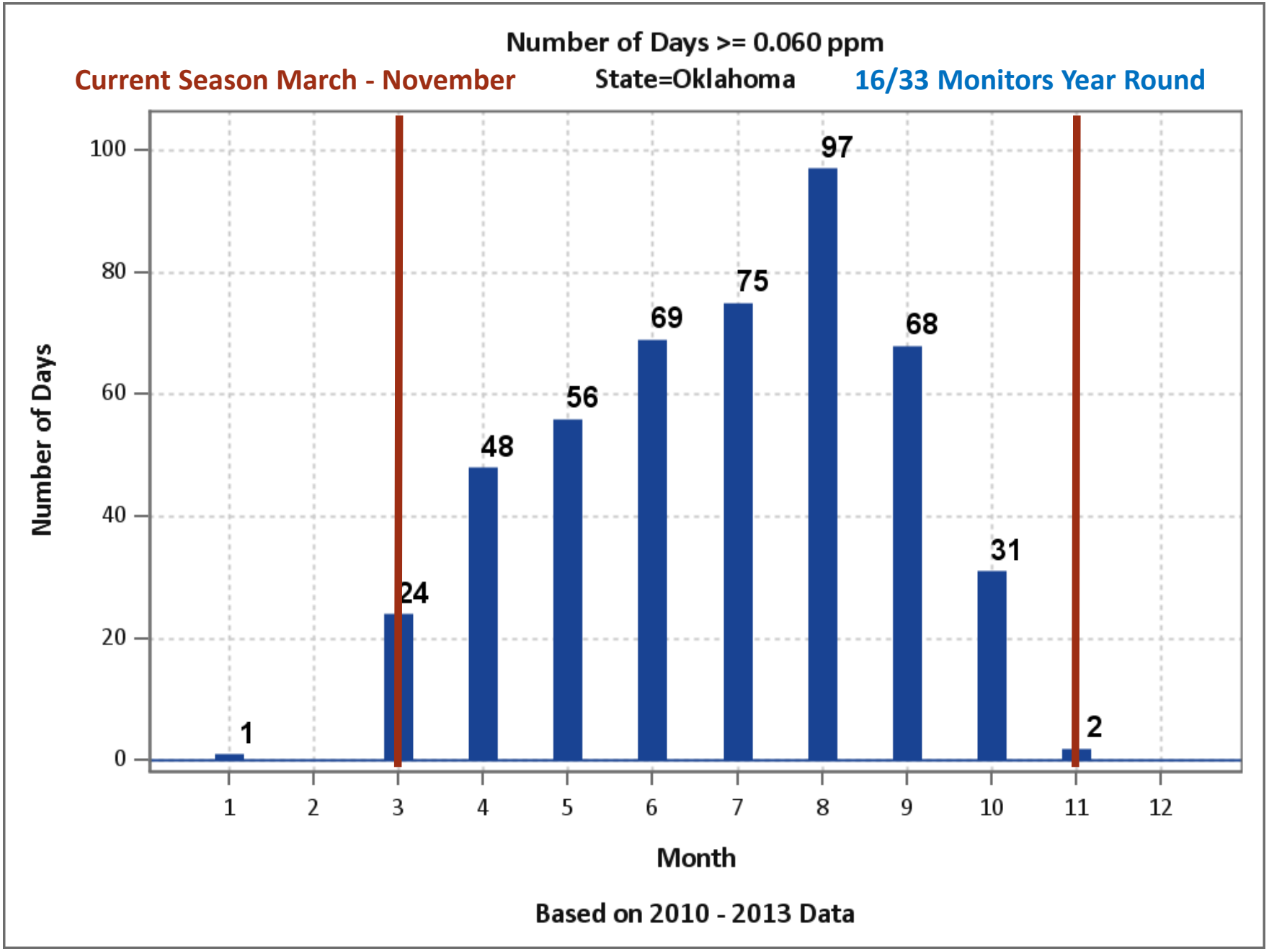

Number of Days >= 0.060 ppm
Current Season April - October
State=New Jersey
14/17 Monitors Year Round
Number of Days
0
20
40
60
80
3
20
31
67
84
58
26
4
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

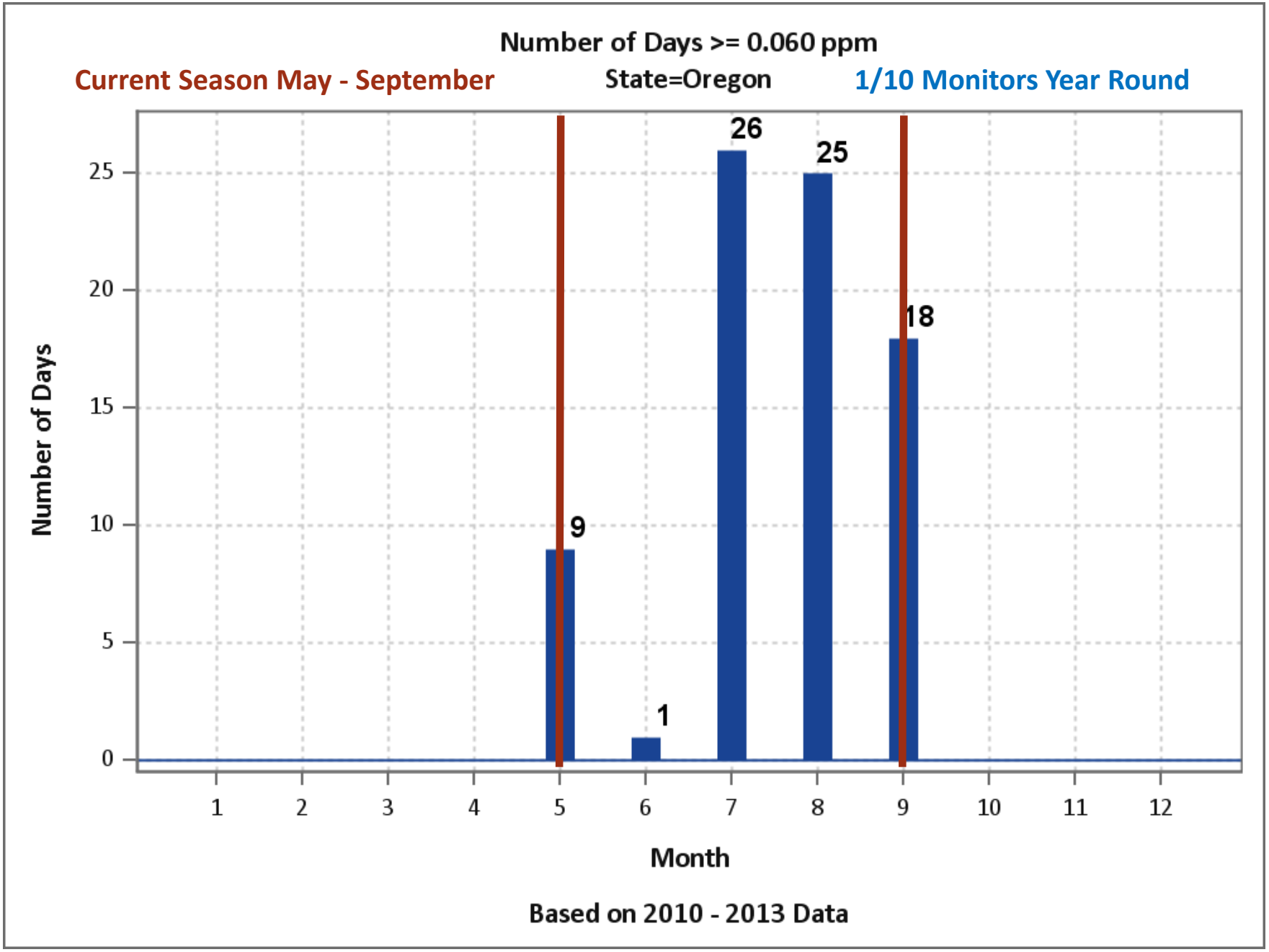

Number of Days >= 0.060 ppm
Current Season April - October
State=New York
34/38 Monitors Year Round
Number of Days
0
20
40
60
80
1
15
29
50
58
82
62
23
5
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

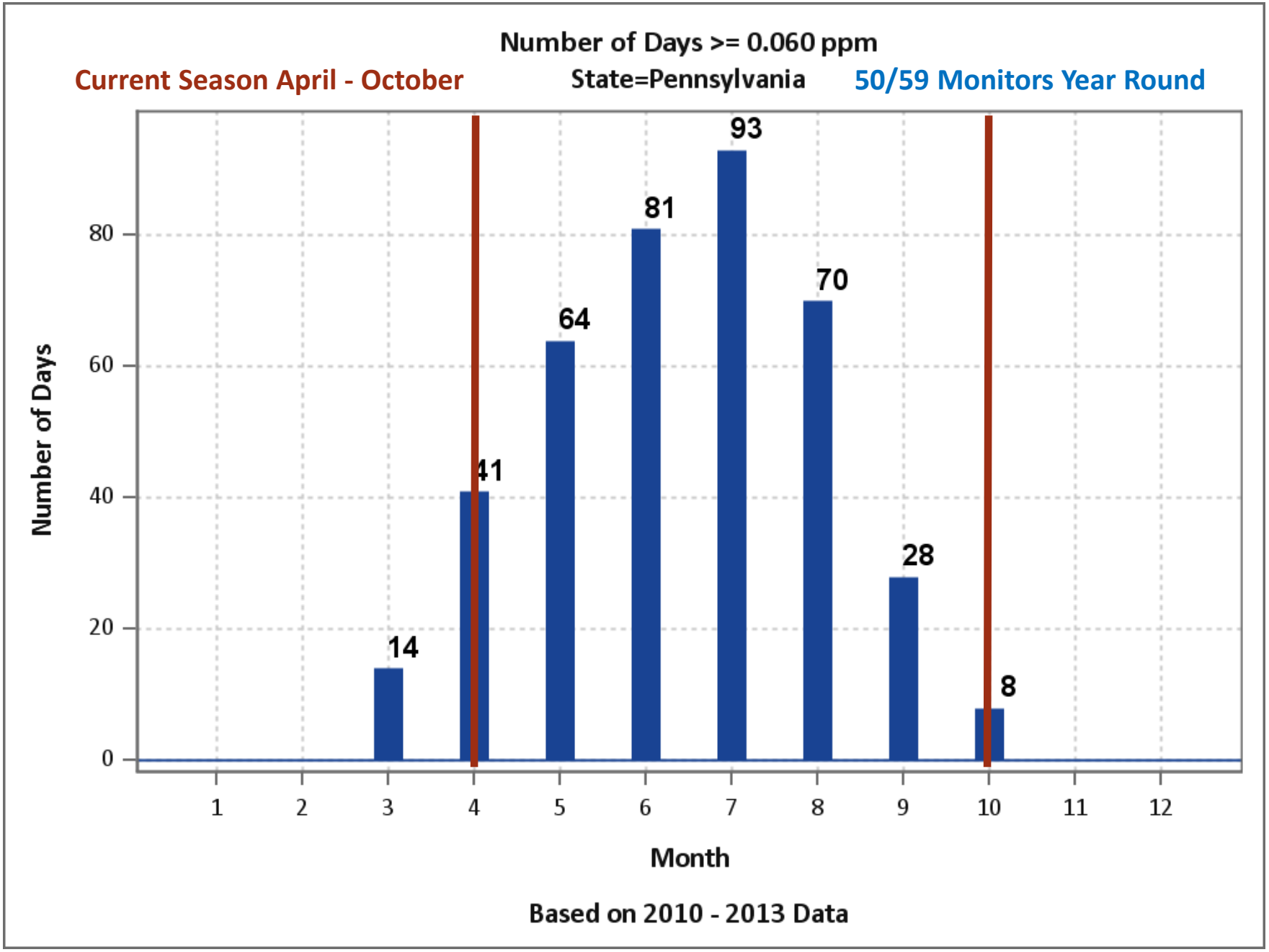

Number of Days >= 0.060 ppm
Current Season April - October
State=North Carolina
7/49 Monitors Year Round
Number of Days
0
20
40
60
80
1
16
58
59
78
65
68
47
22
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

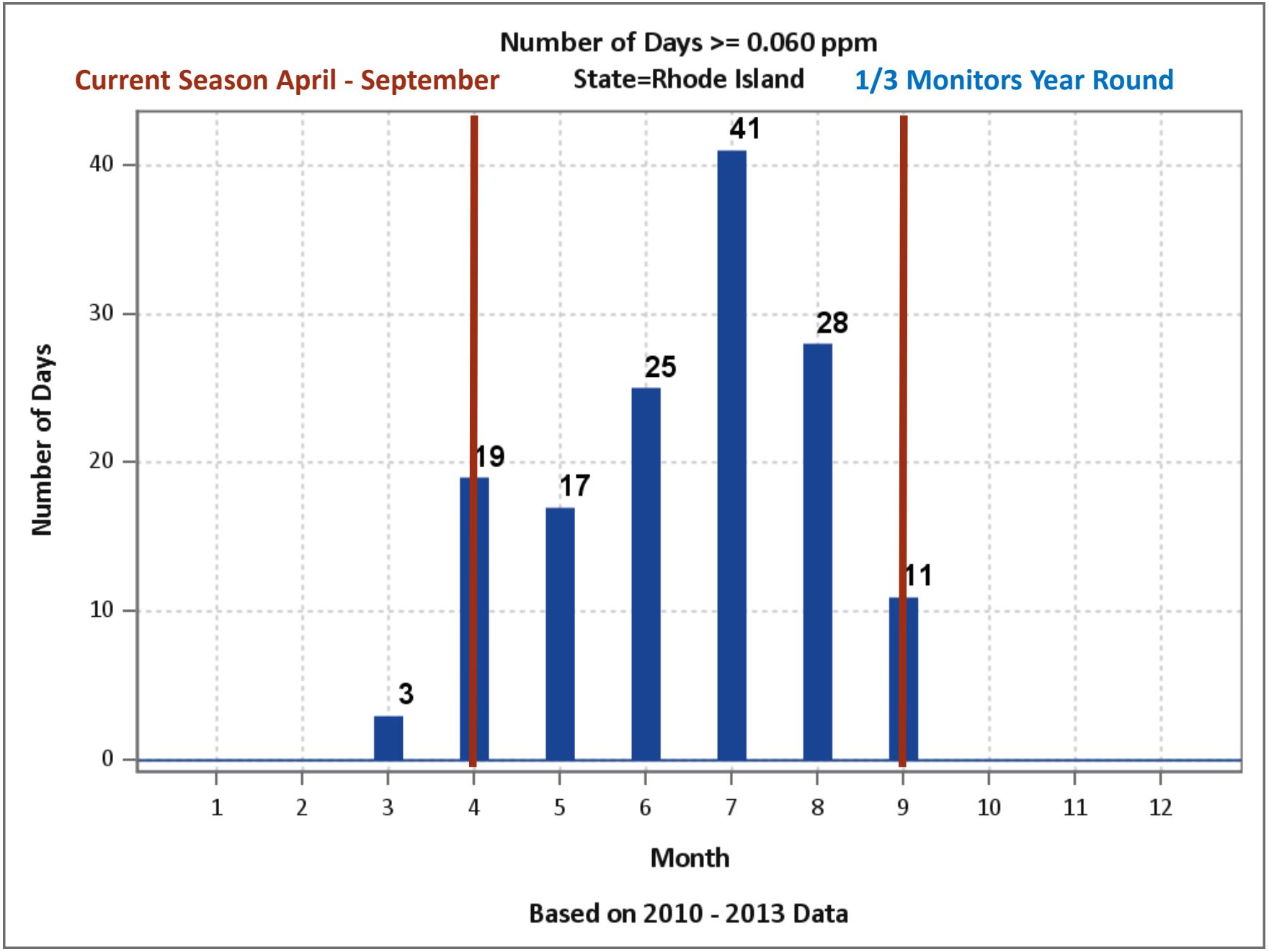

Number of Days >= 0.060 ppm
Current Season May - September
State=North Dakota
8/9 Monitors Year Round
Number of Days
0
5
10
15
20
6
6
21
7
6
3
3
1
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

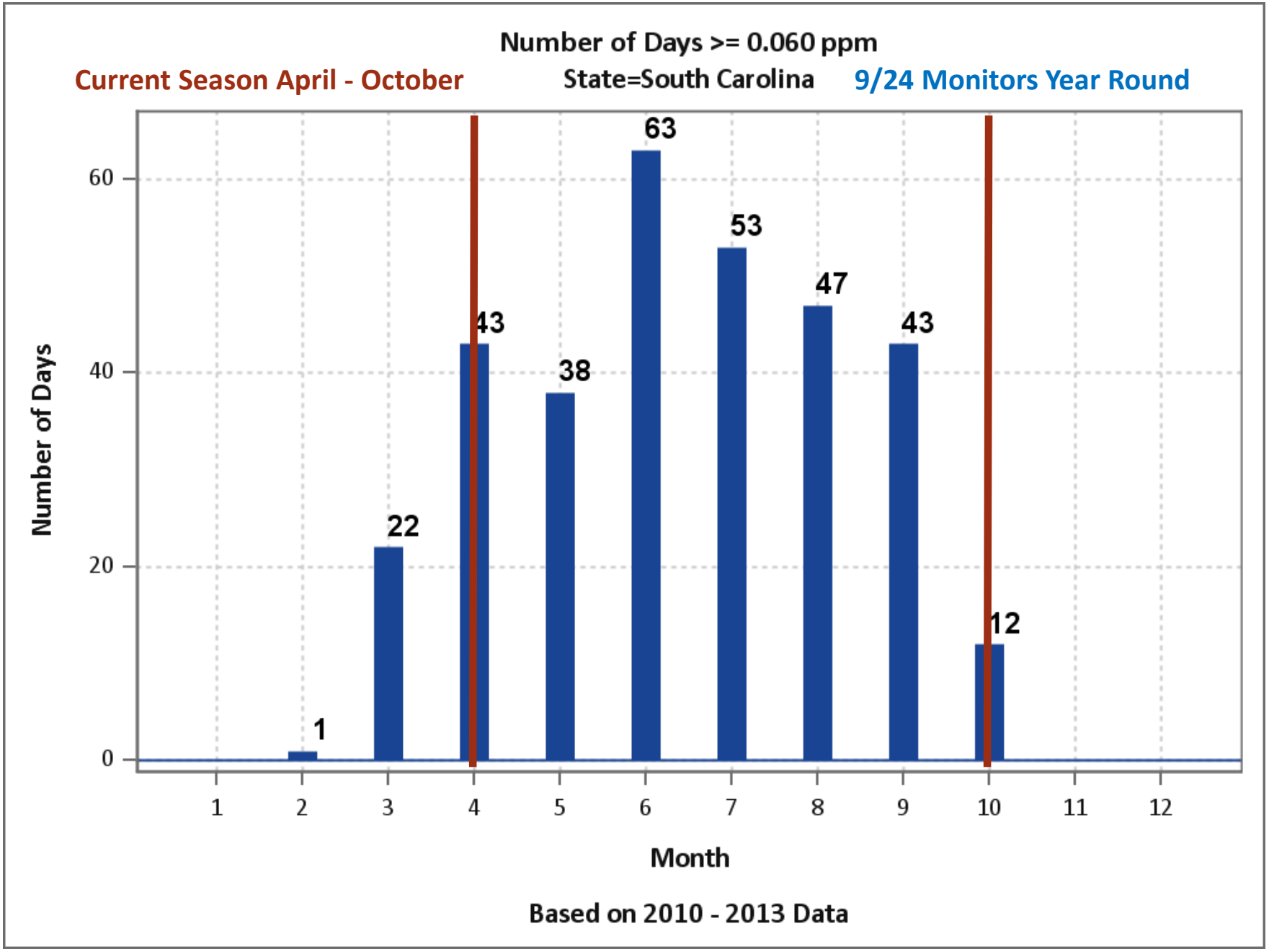

Number of Days >= 0.060 ppm
Current Season April - October
State=Ohio
6/53 Monitors Year Round
Number of Days
0
20
40
60
80
1
12
42
63
78
92
76
30
13
2
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

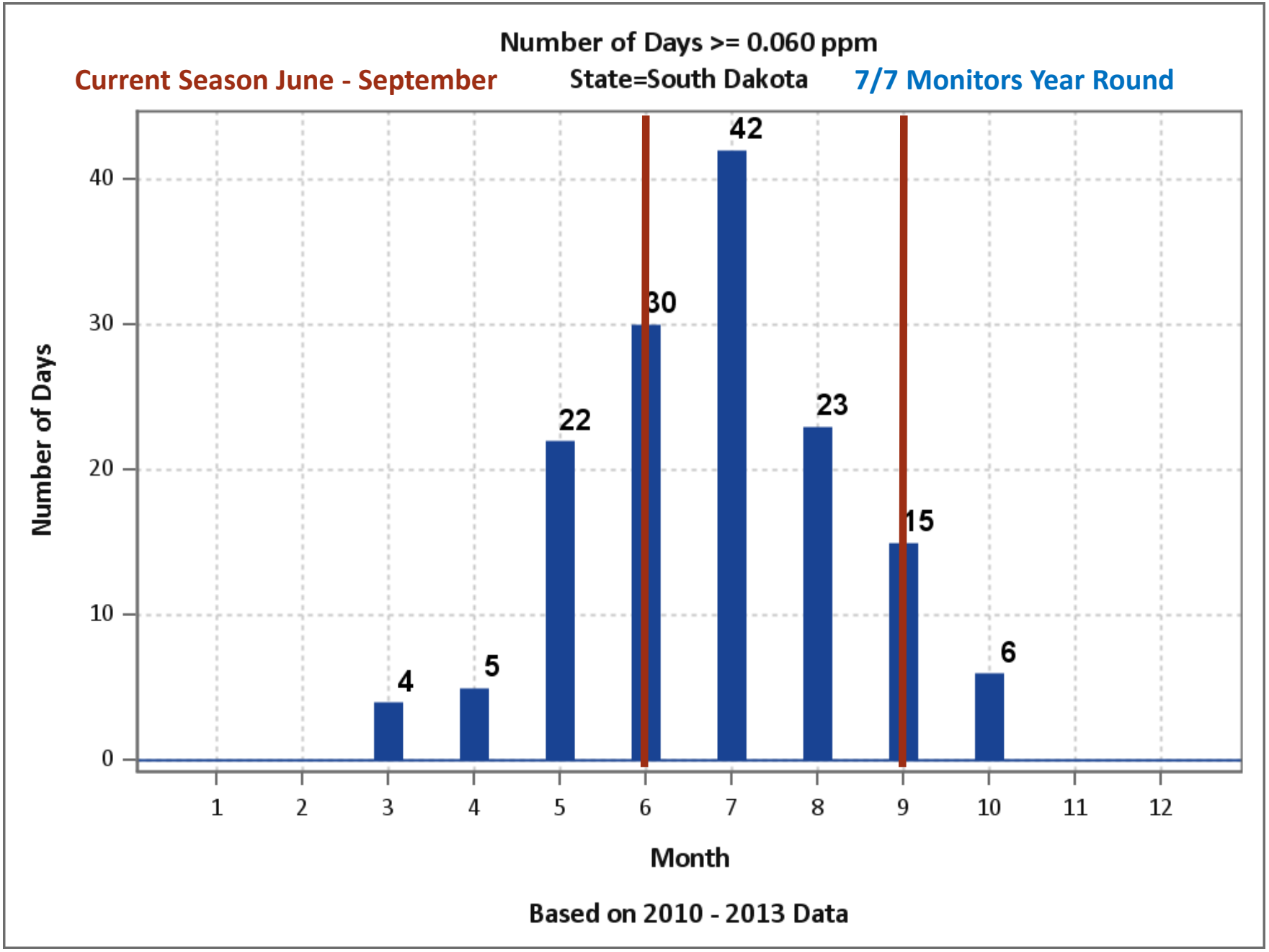

Number of Days >= 0.060 ppm
Current Season March - November
State=Oklahoma
16/33 Monitors Year Round
Number of Days
100
80
60
40
20
0
1
24
48
56
69
75
97
68
31
2
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

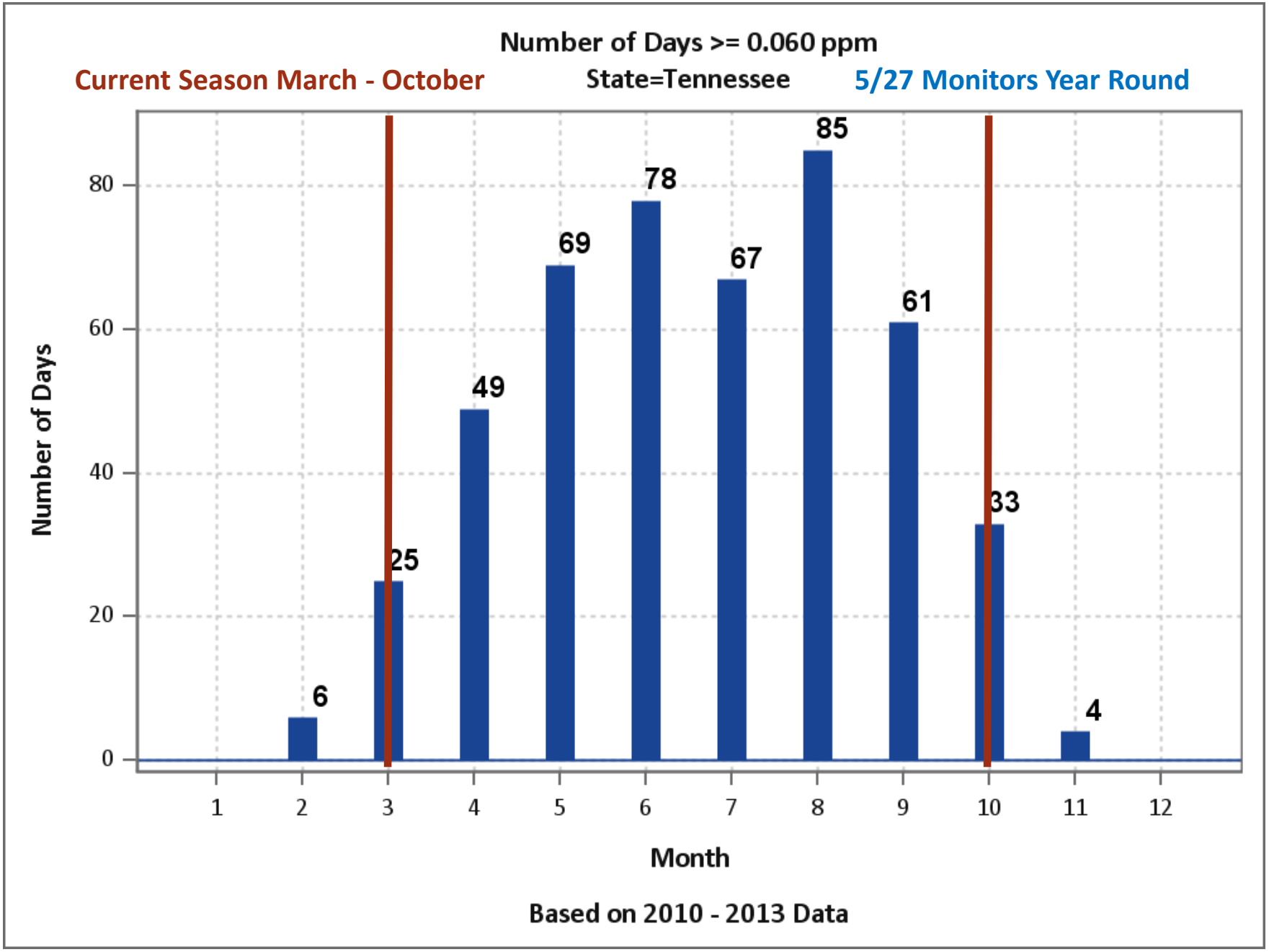

Number of Days >= 0.060 ppm
Current Season May - September
State=Oregon
1/10 Monitors Year Round
Number of Days
0
5
10
15
20
25
9
1
26
25
18
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

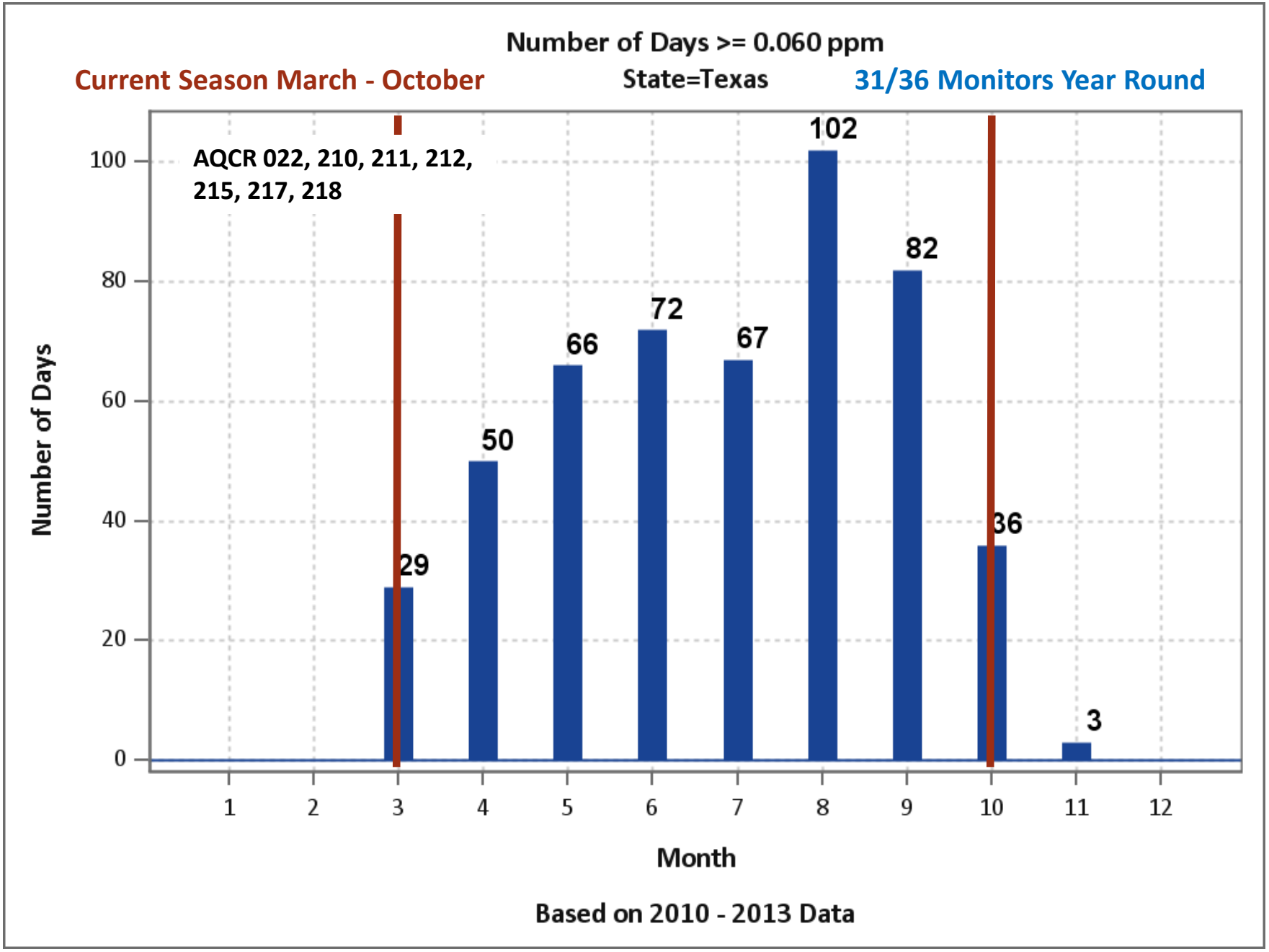

Number of Days >= 0.060 ppm
Current Season April - October
State=Pennsylvania
50/59 Monitors Year Round
Number of Days
0
20
40
60
80
14
41
64
81
93
70
28
8
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

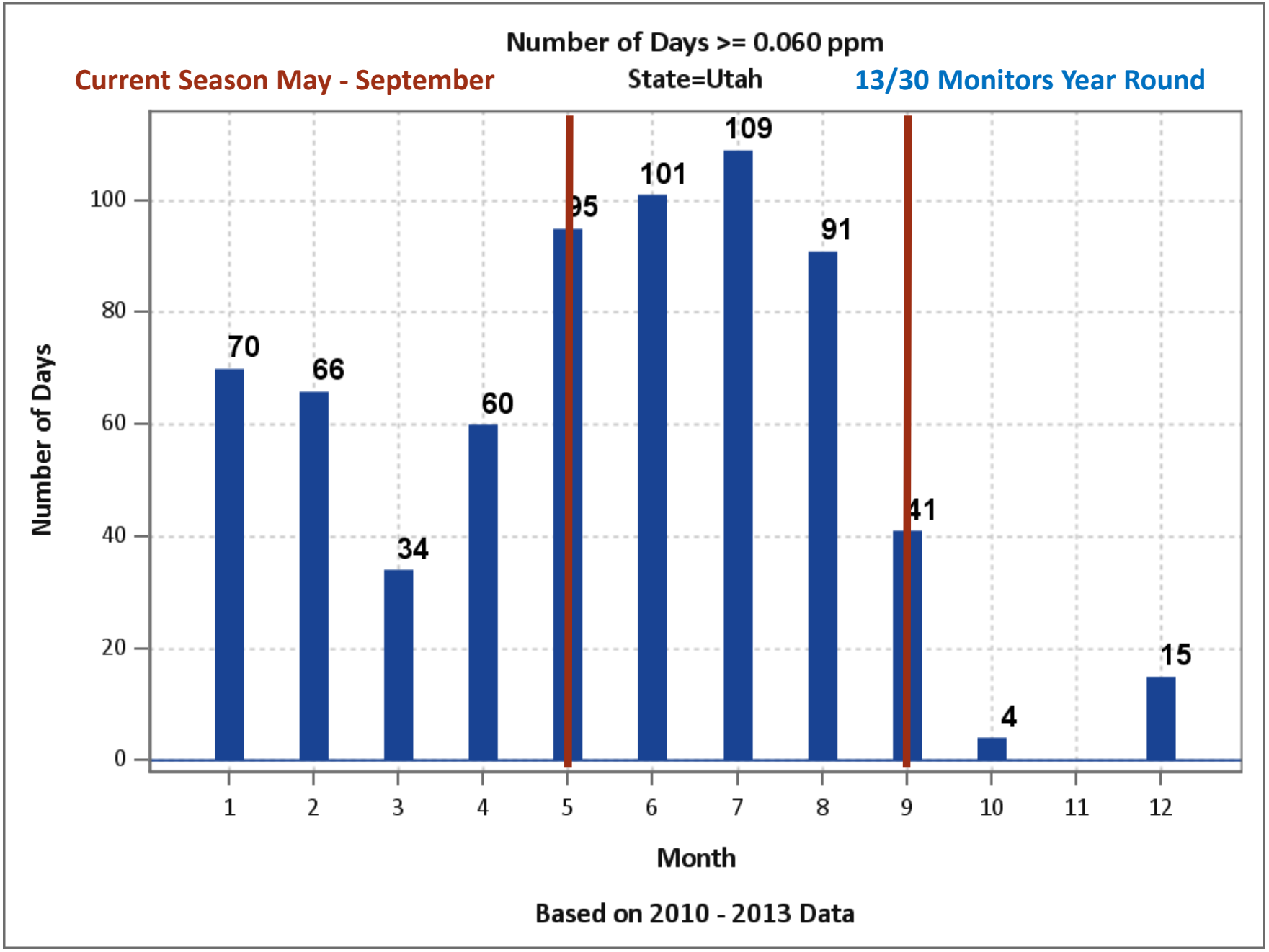

Number of Days >= 0.060 ppm
Current Season April - September
State=Rhode Island
1/3 Monitors Year Round
Number of Days
0
10
20
30
40
3
19
17
25
41
28
11
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

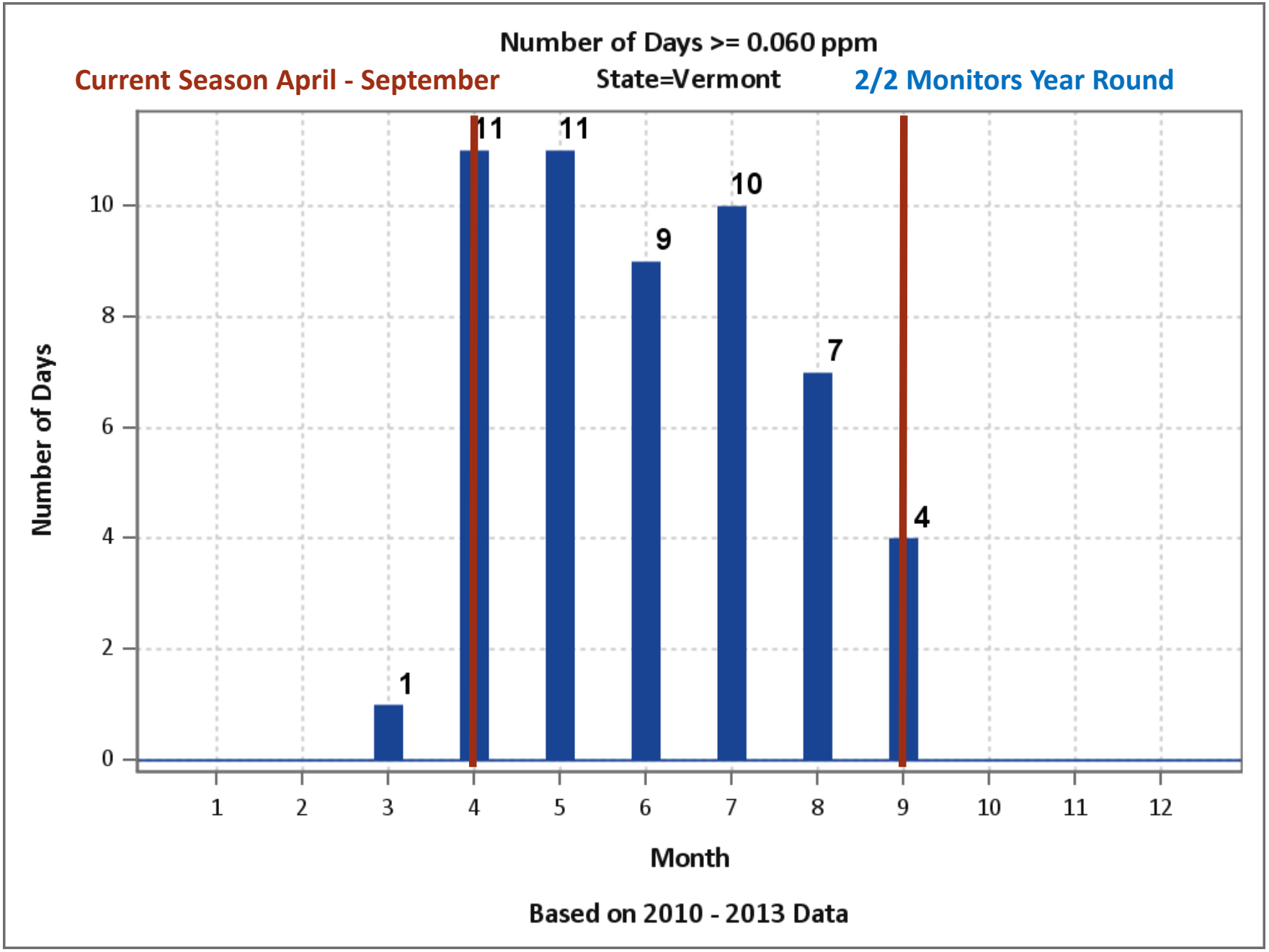

Number of Days >= 0.060 ppm
Current Season April - October
State=South Carolina
9/24 Monitors Year Round
Number of Days
0
20
40
60
1
22
43
38
63
53
47
43
12
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

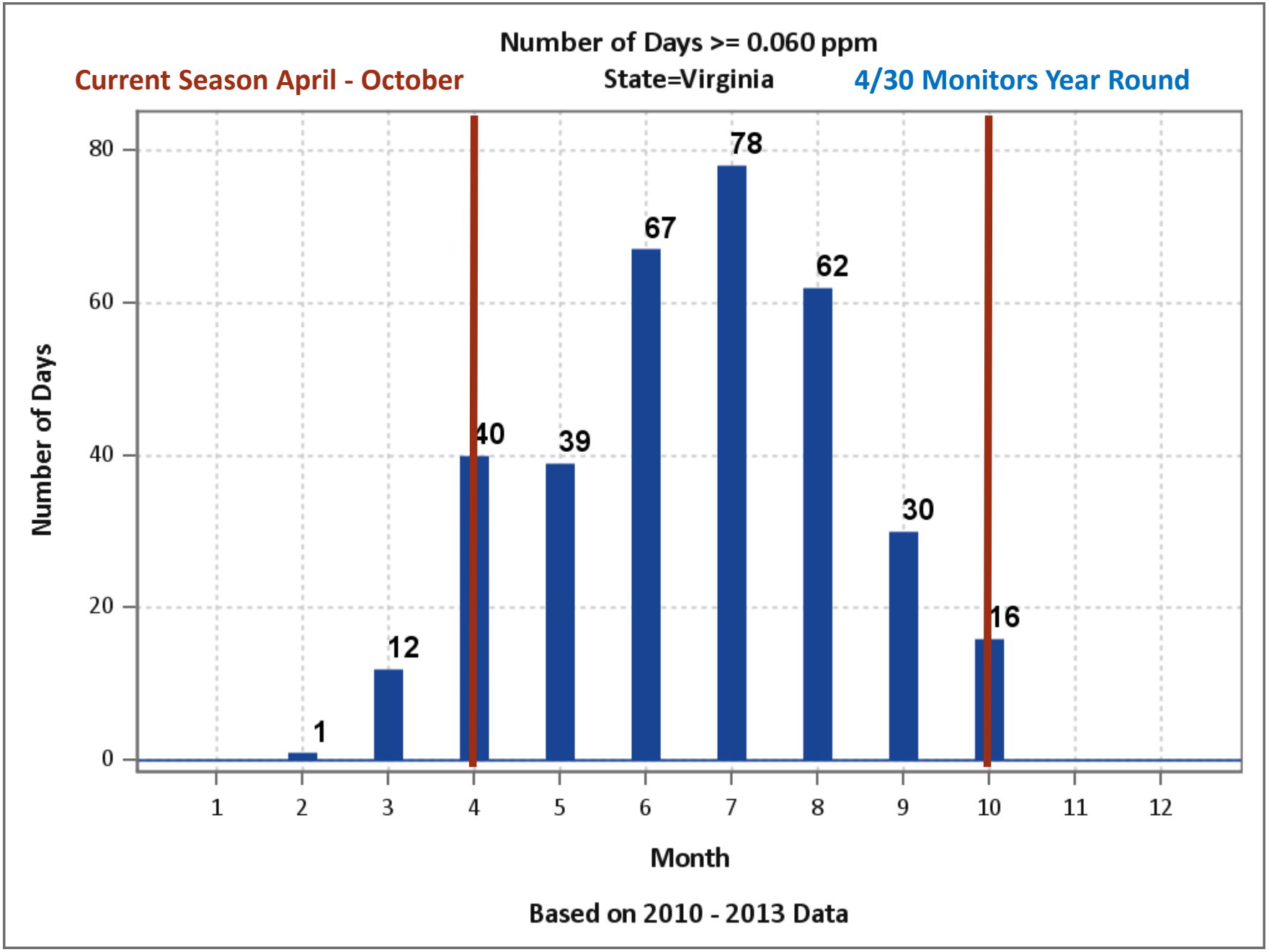

Number of Days >= 0.060 ppm
Current Season June - September
State=South Dakota
7/7 Monitors Year Round
Number of Days
0
10
20
30
40
4
5
22
30
42
23
15
6
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

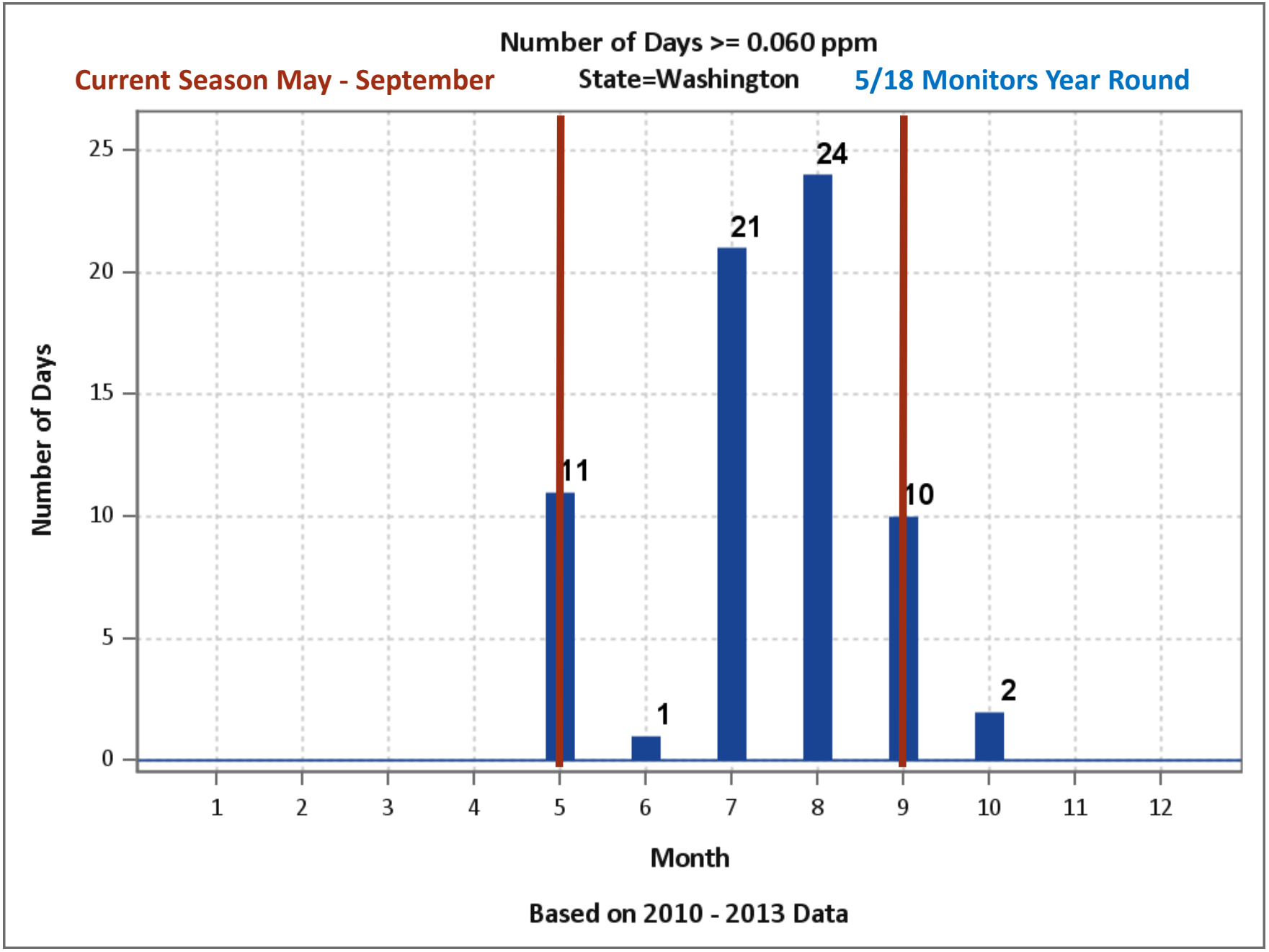

Number of Days >= 0.060 ppm
Current Season March - October
State=Tennessee
5/27 Monitors Year Round
Number of Days
0
20
40
60
80
6
25
49
69
78
67
85
61
33
4
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

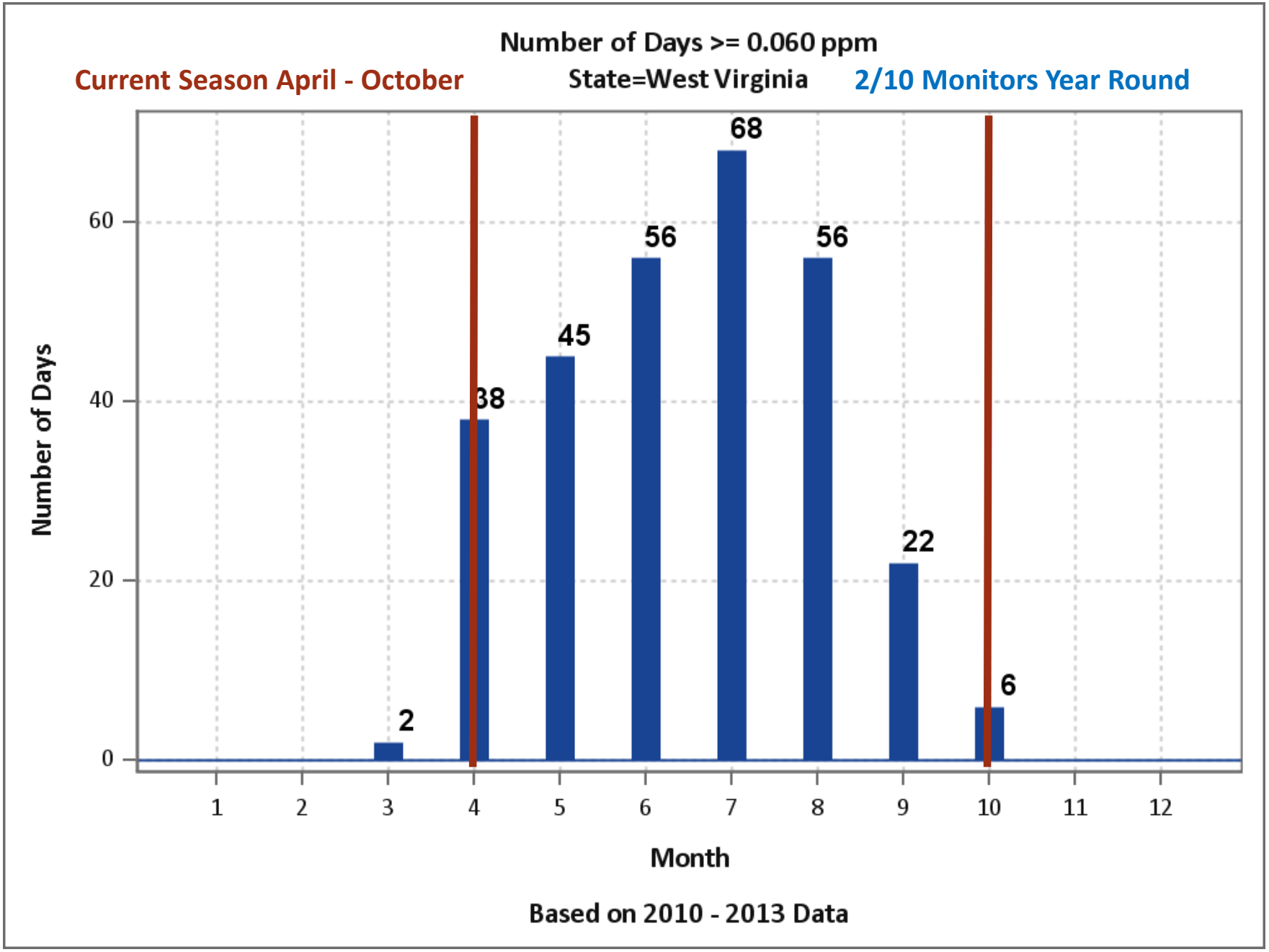

Number of Days >= 0.060 ppm
Current Season March - October
State=Texas
31/36 Monitors Year Round
AQCR 022, 210, 211, 212, 215, 217, 218
Number of Days
0
20
40
60
80
100
29
50
66
72
67
102
82
36
3
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

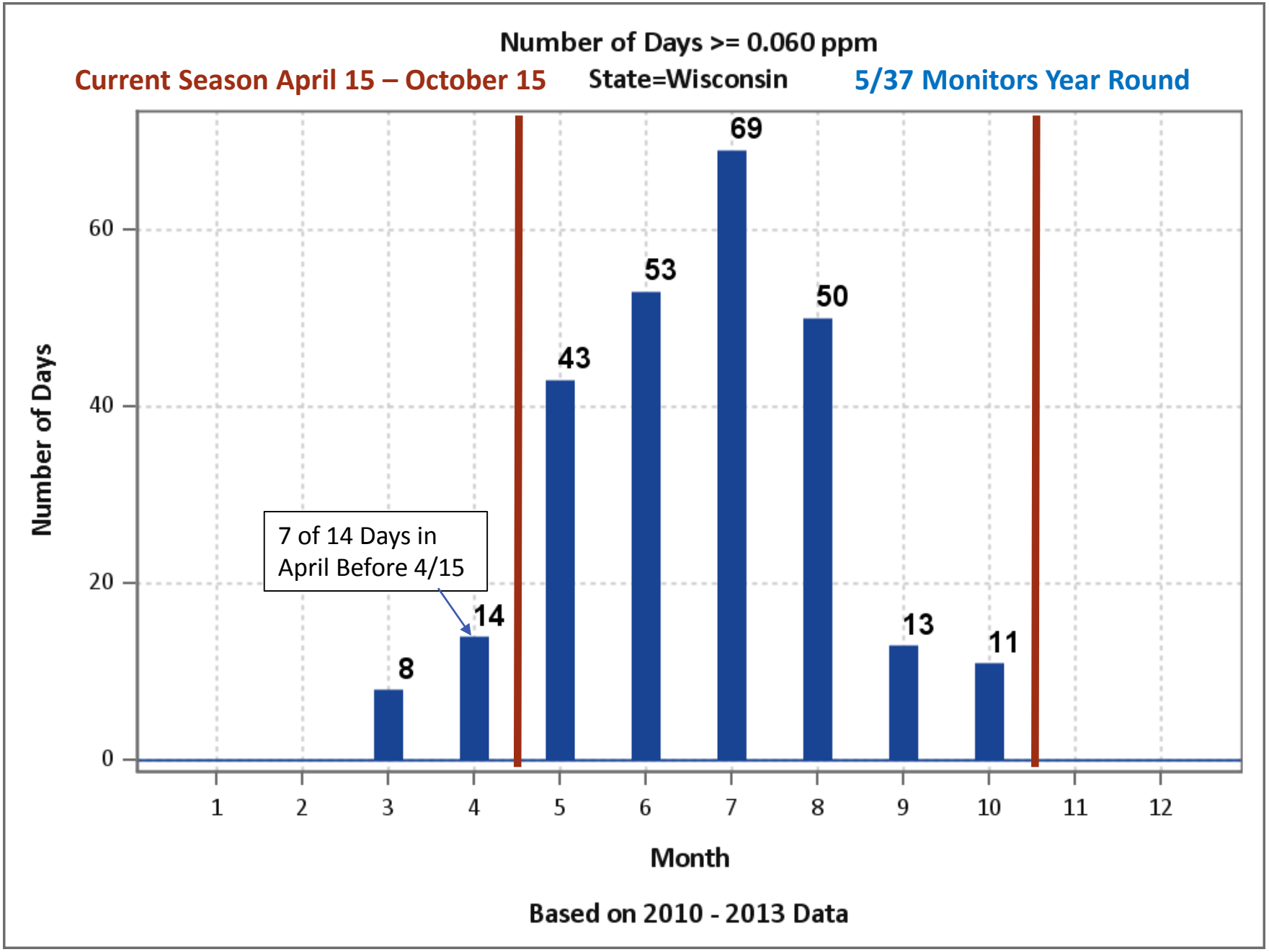

Number of Days >= 0.060 ppm
Current Season May - September
State=Utah
13/30 Monitors Year Round
Number of Days
0
20
40
60
80
100
70
66
34
60
95
101
109
91
41
4
15
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

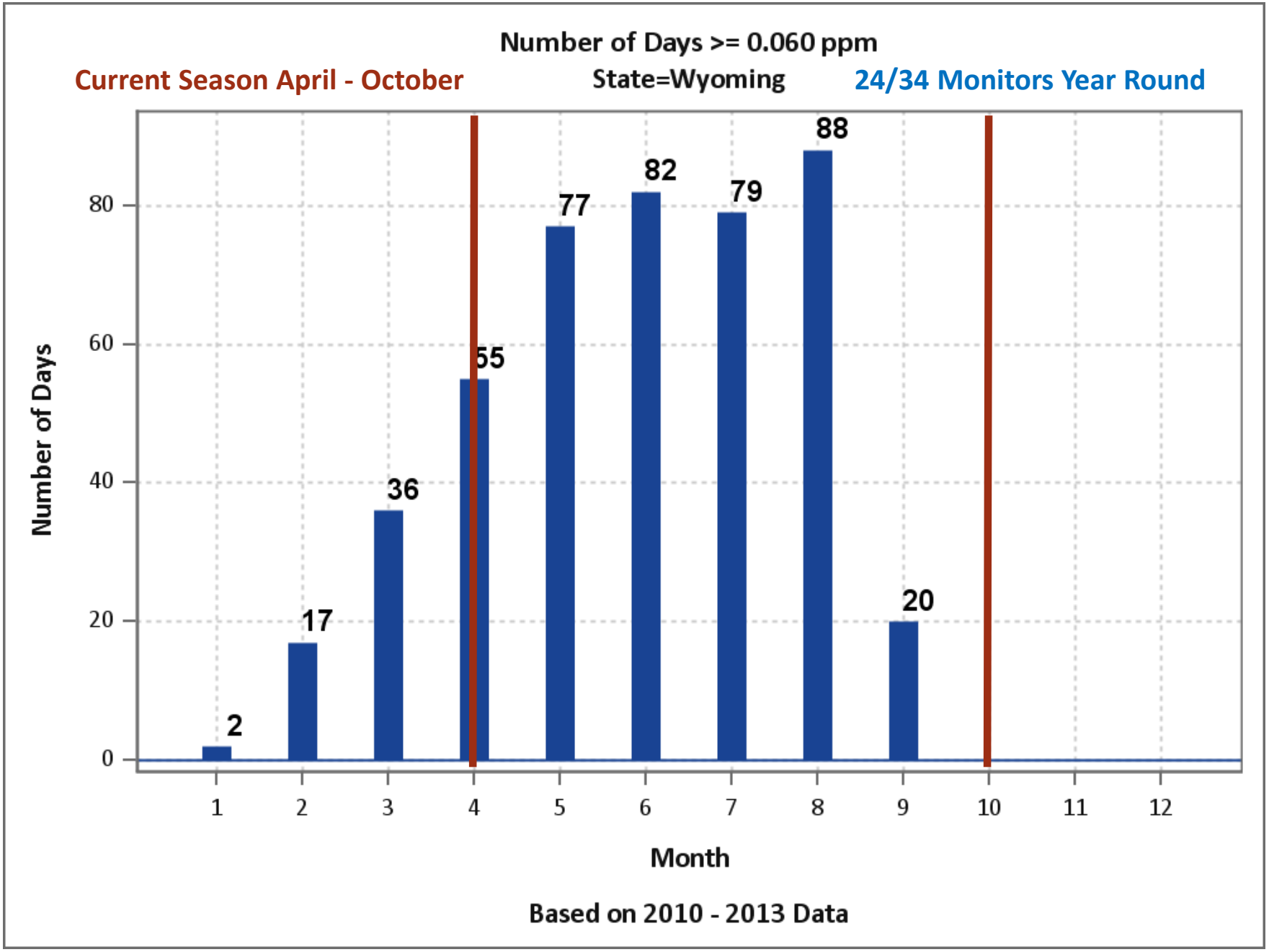

Number of Days >= 0.060 ppm
Current Season April - September
State=Vermont
2/2 Monitors Year Round
Number of Days
0
2
4
6
8
10
1
11
11
9
10
7
4
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data


Number of Days >= 0.060 ppm
Current Season April - October
State=Virginia
4/30 Monitors Year Round
Number of Days
80
60
40
20
0
1
12
40
39
67
78
62
30
16
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data


Number of Days >= 0.060 ppm
Current Season May - September
State=Washington
5/18 Monitors Year Round
Number of Days
25
20
15
10
5
0
11
1
21
24
10
2
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data


Number of Days >= 0.060 ppm
Current Season April - October
State=West Virginia
2/10 Monitors Year Round
Number of Days
0
20
40
60
2
38
45
56
68
56
22
6
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data


Number of Days >= 0.060 ppm
Current Season April 15 – October 15
State=Wisconsin
5/37 Monitors Year Round
Number of Days
0
20
40
60
8
14
43
53
69
50
13
11
7 of 14 Days in April Before 4/15
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data


Number of Days >= 0.060 ppm
Current Season April - October
State=Wyoming
24/34 Monitors Year Round
Number of Days
0
20
40
60
80
2
17
36
55
77
82
79
88
20
1
2
3
4
5
6
7
8
9
10
11
12
Month
Based on 2010 - 2013 Data

Attachment C

Detailed Information Regarding AQS Site IDs, exceedance dates, and Daily 8-hour Maximum Values by State

The ambient ozone data in this document were compiled from analyses used in support of the proposed rule for the O_3 NAAQS: Revisions to the Length of the Required O_3 Monitoring Seasons

Docket ID No. EPA-HQ-OAR-2008-0699

Number of Days >= 0.060 ppm

StateID=Alabama

AQSID	date	dmax8
010499991	17FEB2011	61
010499991	12NOV2010	64

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Arkansas

AQSID	date	dmax8
051130003	13FEB2011	60

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Colorado

AQSID	date	dmax8
080050002	01OCT2010	62
080050006	28FEB2013	62
080050006	24OCT2011	61
080050006	01OCT2010	68
080130011	01OCT2010	62
080190004	01OCT2010	63
080350004	01OCT2010	66
080410016	26FEB2011	61
080410016	01OCT2010	67
080410013	01OCT2010	68
080450016	17DEC2011	64
080450016	16DEC2011	63
080450016	28FEB2011	61
080450016	27FEB2011	63
080450016	26FEB2011	63
080450016	24FEB2011	61
080450016	23FEB2011	65
080450016	22FEB2011	67
080450016	20FEB2011	61
080450016	19FEB2011	63
080450016	18FEB2011	60
080450016	17FEB2011	60
080450016	16FEB2011	64
080450016	15FEB2011	63
080450016	14FEB2011	60
080450016	25JAN2011	60
080450016	03OCT2010	63
080450016	02OCT2010	63
080450016	01OCT2010	66
080450015	02OCT2010	60
080450015	01OCT2010	63
080450014	02OCT2010	60
080450014	01OCT2010	62
080510008	01OCT2010	62
080590013	01OCT2010	67

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Colorado

AQSID	date	dmax8
080590011	01OCT2010	69
080590006	03OCT2011	61
080590006	01OCT2010	64
080590005	01OCT2010	61
080590002	01OCT2010	64
080671004	22FEB2011	61
080671004	02OCT2010	62
080699991	03OCT2011	61
080699991	01OCT2010	61
080690012	03OCT2011	61
080690007	29OCT2011	61
080690007	28OCT2011	62
080690007	03OCT2011	65
080690007	27FEB2011	61
080690007	26FEB2011	61
080690007	22FEB2011	64
080690007	20FEB2011	60
080690007	19FEB2011	61
080690007	18FEB2011	60
080690007	16FEB2011	62
080690007	15FEB2011	62
080690007	01OCT2010	64
080690007	27FEB2010	62
080690007	22JAN2010	62
080690011	03OCT2011	66
080690011	03OCT2010	61
080770021	01OCT2010	62
080830101	22FEB2011	60
080970002	29OCT2011	65
080970002	28OCT2011	62
080970002	24OCT2011	63
080970002	23OCT2011	63
080970002	19OCT2011	62
080970002	28FEB2011	62
080970002	27FEB2011	65

Number of Days >= 0.060 ppm

StateID=Colorado

AQSID	date	dmax8
080970002	26FEB2011	65
080970002	24FEB2011	63
080970002	23FEB2011	65
080970002	22FEB2011	69
080970002	21FEB2011	65
080970002	20FEB2011	63
080970002	19FEB2011	61
080970002	18FEB2011	61
080970002	17FEB2011	60
080970002	16FEB2011	66
080970002	15FEB2011	64
080970002	14FEB2011	60
080970002	04FEB2011	63
080970002	03FEB2011	62
080970002	25JAN2011	65
080970002	28DEC2010	60
080970002	02OCT2010	62
080970002	01OCT2010	64
080970002	27FEB2010	64
080970002	26FEB2010	62
080970002	20FEB2010	60
080970002	02FEB2010	62
080970002	30JAN2010	62
080970002	29JAN2010	62
080970002	22JAN2010	60
081030006	31DEC2013	68
081030006	30DEC2013	64
081030006	19DEC2013	70
081030006	18DEC2013	68
081030006	17DEC2013	63
081030006	16DEC2013	72
081030006	15DEC2013	64
081030006	20FEB2013	67
081030006	17FEB2013	80
081030006	16FEB2013	69

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Colorado

AQSID	date	dmax8
081030006	15FEB2013	67
081030006	14FEB2013	80
081030006	13FEB2013	75
081030006	09FEB2013	65
081030006	08FEB2013	72
081030006	06FEB2013	86
081030006	05FEB2013	92
081030006	04FEB2013	61
081030006	27JAN2013	90
081030006	26JAN2013	103
081030006	25JAN2013	106
081030006	24JAN2013	91
081030006	23JAN2013	68
081030006	22JAN2013	76
081030006	21JAN2013	75
081030006	20JAN2013	70
081030006	19JAN2013	62
081030006	08JAN2013	62
081030006	16FEB2011	67
081030006	15FEB2011	82
081030006	14FEB2011	89
081030006	13FEB2011	89
081030006	12FEB2011	70
081030006	11FEB2011	61
081030006	31JAN2011	61
081030006	30JAN2011	67
081030006	29JAN2011	64
081030006	28JAN2011	62
081030006	17JAN2011	65
081030006	16JAN2011	73
081030006	14JAN2011	60
081030006	09JAN2011	63
081030006	08JAN2011	66
081030006	07JAN2011	65
081030005	28FEB2010	62

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Connecticut

AQSID	date	dmax8
090050005	20MAR2010	60
090050005	19MAR2010	63
090050005	21MAR2010	67
090159991	19MAR2010	60
090159991	20MAR2010	64
090159991	21MAR2010	61
090159991	12OCT2010	63
090159991	13OCT2010	63

Number of Days >= 0.060 ppm

StateID=Delaware

AQSID	date	dmax8
100031007	10MAR2010	63
100031007	20MAR2010	69
100031013	20MAR2010	61
100031007	21MAR2010	64
100031007	25MAR2010	61

Number of Days >= 0.060 ppm

StateID=District of Columbia

AQSID	date	dmax8
110010043	21MAR2010	67
110010041	21MAR2010	61
110010025	20MAR2010	61
110010043	20MAR2010	67
110010025	21MAR2010	61
110010041	20MAR2010	62
110010043	19MAR2010	60

Number of Days >= 0.060 ppm

StateID=Florida

AQSID	date	dmax8
120013011	28FEB2013	60
120050006	23NOV2012	61
120094001	04NOV2012	61
120090007	03NOV2012	63
120094001	01NOV2012	62
120090007	29JAN2011	61
120090007	28FEB2013	61
120090007	04NOV2012	60
120094001	29JAN2011	63
120090007	01NOV2012	60
120094001	03NOV2012	61
120110033	26FEB2010	62
120330018	29JAN2011	65
120550003	21FEB2010	62
120550003	16FEB2011	61
120573002	03NOV2012	63
120573002	16FEB2011	62
120573002	15FEB2011	68
120573002	29JAN2011	60
120571065	15FEB2011	60
120570081	04NOV2012	60
120570081	28FEB2013	61
120570081	15FEB2011	63
120590004	17FEB2011	64
120619991	24JAN2013	60
120619991	04NOV2012	62
120619991	03NOV2012	65
120619991	29JAN2011	62
120690002	16FEB2011	61
120713002	10NOV2010	61
120712002	15FEB2011	61
120712002	10NOV2010	63
120779991	16FEB2011	61
120814012	04NOV2012	62
120814012	10NOV2010	60

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Florida

AQSID	date	dmax8
120830003	21FEB2010	62
120850007	04NOV2012	60
120850007	03NOV2012	62
120850007	30JAN2011	62
120860029	30JAN2011	61
120860029	29JAN2011	62
120860029	10NOV2010	65
120860027	15FEB2011	60
120860027	30JAN2011	61
120860027	29JAN2011	66
120860027	10NOV2010	64
120950008	28FEB2013	60
120950008	03NOV2012	61
120972002	01NOV2012	62
120990020	03NOV2012	61
120990020	30JAN2011	61
120990020	20FEB2010	61
120990009	20FEB2010	63
121012001	28FEB2013	62
121010005	16FEB2011	61
121010005	15FEB2011	61
121035002	17FEB2011	61
121035002	16FEB2011	62
121030004	28FEB2013	61
121030004	16FEB2011	61
121056006	15FEB2011	63
121056006	29JAN2011	60
121056005	15FEB2011	64
121110013	03NOV2012	60
121130015	23NOV2012	60
121130015	29JAN2011	65
121152002	25JAN2013	61
121152002	15FEB2011	61
121152002	10NOV2010	66
121151006	04NOV2012	60

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Florida

AQSID	date	dmax8
121151006	15FEB2011	64
121151006	10NOV2010	63
121151005	25JAN2013	61
121151005	04NOV2012	63
121151005	16FEB2011	64
121151005	10NOV2010	64
121171002	28FEB2013	60
121171002	03FEB2010	72
121171002	02FEB2010	73
121275002	03NOV2012	61
121275002	21FEB2010	62

Number of Days >= 0.060 ppm

StateID=Georgia

AQSID	date	dmax8
130890002	17FEB2011	61
132319991	17FEB2011	61
132319991	14FEB2011	60

Number of Days >= 0.060 ppm

StateID=Idaho

AQSID	date	dmax8
160010017	17APR2010	62
160010010	02OCT2010	61
160230101	16APR2010	60
160230101	24APR2011	60
160230101	04APR2012	61
160230101	09APR2012	60
160230101	14APR2012	61
160230101	08APR2012	60
160310001	15APR2010	62
160310001	16APR2010	65

Number of Days >= 0.060 ppm

StateID=Illinois

AQSID	date	dmax8
170010007	13FEB2011	60
170190004	31MAR2010	63
170311601	31MAR2010	66
170317002	21MAR2012	62
170314201	31MAR2010	61
170491001	31MAR2010	66
170650002	31MAR2010	68
170650002	24MAR2010	65
170859991	15MAR2012	63
170859991	31MAR2010	62
170971007	21MAR2012	63
170971007	13FEB2011	60
170971007	31MAR2010	61
171132003	29MAR2013	62
171170002	31MAR2010	62
171191009	31MAR2010	62
171191009	24MAR2010	63
171431001	31MAR2010	64
171570001	02NOV2011	60

Number of Days >= 0.060 ppm

StateID=Indiana

AQSID	date	dmax8
180110001	08OCT2011	60
180190008	09OCT2010	65
180190008	16OCT2011	63
180190008	08OCT2011	61
180190008	11OCT2010	73
180190008	10OCT2010	77
180431004	16OCT2011	65
180431004	17OCT2010	61
180431004	11OCT2010	64
180431004	10OCT2010	64
180839991	16OCT2011	62
180839991	07OCT2011	67
180839991	11OCT2010	65
180839991	10OCT2010	69
180839991	09OCT2010	60
181699991	21MAR2012	63
181699991	08OCT2011	63
181699991	07OCT2011	61
181699991	06OCT2011	65
181699991	05OCT2011	62
181699991	11OCT2010	62
181699991	10OCT2010	66
181699991	09OCT2010	71
181699991	31MAR2010	64

Number of Days >= 0.060 ppm

StateID=Kansas

AQSID	date	dmax8
200910010	28MAR2013	60
200910010	25MAR2012	70
200910010	01NOV2011	63
200910010	31MAR2010	61
201030003	31MAR2012	62
201030003	26MAR2012	64
201030003	25MAR2012	71
201030003	01NOV2011	60
201070002	28MAR2013	61
201070002	31MAR2012	61
201070002	27MAR2012	61
201070002	25MAR2012	72
201070002	01NOV2011	63
201070002	11MAR2011	62
201070002	13FEB2011	67
201070002	12FEB2011	67
201619991	23FEB2013	62
201619991	26MAR2012	63
201619991	25MAR2012	68
201619991	24MAR2012	62
201619991	03MAR2011	63
201619991	30MAR2010	61
201730018	28MAR2013	63
201730018	23FEB2013	63
201730018	16MAR2011	61
201730010	25MAR2012	62
201730010	16MAR2011	61
201770013	31MAR2012	61
201770013	26MAR2012	68
201770013	25MAR2012	68
201770013	16MAR2011	62
201770013	03MAR2011	61
201770013	31MAR2010	62
201910002	14MAR2013	61
201910002	23FEB2013	62

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Kansas

AQSID	date	dmax8
201910002	30MAR2012	61
201910002	16MAR2011	62
201910002	03MAR2011	66
201910002	12FEB2011	67
201950001	24FEB2013	62
201950001	23FEB2013	66
201950001	25MAR2012	63
201950001	16MAR2011	63
202090021	26MAR2012	63
202090021	25MAR2012	74
202090021	24MAR2012	60

Number of Days >= 0.060 ppm

StateID=Kentucky

AQSID	date	dmax8
210610501	12NOV2010	62
210610501	11NOV2010	62
211759991	13NOV2010	63
212299991	11NOV2010	63
212299991	11NOV2010	63

Number of Days >= 0.060 ppm

StateID=Louisiana

AQSID	date	dmax8
220170001	01NOV2012	67

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Maine

AQSID	date	dmax8
230052003	31MAR2013	61
230090102	19MAR2010	62
230090103	12MAR2012	60
230090102	12MAR2012	60

Number of Days >= 0.060 ppm

StateID=Maryland

AQSID	date	dmax8
240053001	21MAR2010	64
240053001	20MAR2010	63
240199991	20MAR2010	64
240199991	21MAR2010	62
240230002	30MAR2013	60
240230002	25MAR2010	63
240230002	28MAR2012	62
240230002	23MAR2012	63
240230002	17FEB2011	61
240230002	21MAR2010	70
240230002	20MAR2010	69
240230002	19MAR2010	62
240230002	11MAR2010	61
240230002	10MAR2010	65
240339991	21MAR2010	69
240339991	20MAR2010	67
240330030	21MAR2010	69
240330030	20MAR2010	68
240330030	19MAR2010	60

Number of Days >= 0.060 ppm

StateID=Massachusetts

AQSID	date	dmax8
250010002	19MAR2010	60
250010002	20MAR2010	63
250034002	09OCT2011	65
250034002	10OCT2011	65
250051002	10OCT2011	61
250070001	21MAR2010	60
250070001	10OCT2011	66
250154002	19MAR2010	63
250154002	20MAR2010	61
250213003	20MAR2010	62
250250041	31MAR2013	61
250270015	19MAR2010	64
250270015	07MAR2010	63
250270015	20MAR2010	64

Number of Days >= 0.060 ppm

StateID=Michigan

AQSID	date	dmax8
260650012	09OCT2011	65
260650012	07OCT2011	61
260650012	10OCT2010	64
260810020	08OCT2011	61
261130001	21MAR2012	60
261130001	08OCT2011	67
261130001	07OCT2011	63
261130001	06OCT2011	65
261579991	09OCT2011	62
261579991	09MAR2010	61
261619991	22MAR2012	64
261619991	09OCT2011	64
261619991	08OCT2011	60
261619991	07OCT2011	68
261619991	11OCT2010	61
261619991	10OCT2010	65
261630001	07OCT2011	61
261659991	16MAR2012	60
261659991	08OCT2011	63
261659991	07OCT2011	61
261659991	31MAR2010	68
261659991	09MAR2010	61

Number of Days >= 0.060 ppm

StateID=Minnesota

AQSID	date	dmax8
270750005	29MAR2013	61
271370034	30MAR2013	61
271370034	30MAR2011	63
271370034	10MAR2010	61
271370034	07MAR2010	65

Number of Days >= 0.060 ppm

StateID=Mississippi

AQSID	date	dmax8
281619991	02NOV2012	62
281619991	13FEB2011	62

Number of Days >= 0.060 ppm

StateID=Missouri

AQSID	date	dmax8
290370003	11MAR2011	61
290470003	11MAR2011	62
290970004	11MAR2011	62
290970004	03MAR2011	61

Number of Days >= 0.060 ppm

StateID=Montana

AQSID	date	dmax8
300298001	09MAY2012	65
300298001	16MAY2012	65
300351001	15MAY2010	63
300630024	14MAY2012	61
300830001	22APR2010	60
300830001	21APR2010	61
300830001	20APR2010	65
300870001	17MAY2010	61
300870001	28APR2010	64

Number of Days >= 0.060 ppm

StateID=Nebraska

AQSID	date	dmax8
310550019	25MAR2012	65
310550019	24MAR2012	63
310550019	26MAR2012	62
311079991	29MAR2013	64

Number of Days >= 0.060 ppm

StateID=New Hampshire

AQSID	date	dmax8
330074001	31MAR2013	61
330074001	25OCT2010	63
330074001	01OCT2013	67
330074001	09OCT2011	63
330074001	15MAR2012	60
330074001	21MAR2010	60
330074001	08OCT2011	63
330074001	18FEB2011	61
330074001	10OCT2011	61
330074001	11MAR2010	70
330074001	22MAR2010	68
330074001	30MAR2011	60
330074001	12MAR2010	70
330074001	17FEB2011	61
330074001	31MAR2011	61
330074001	07OCT2011	64
330074001	11MAR2013	60
330115001	19MAR2012	60
330115001	19MAR2010	63
330150018	31MAR2013	61

Number of Days >= 0.060 ppm

StateID=New Jersey

AQSID	date	dmax8
340010006	21MAR2010	64
340071001	19MAR2010	61
340071001	21MAR2010	70
340071001	20MAR2010	69
340110007	20MAR2010	68
340110007	21MAR2010	65
340130003	20MAR2010	60
340150002	20MAR2010	68
340150002	21MAR2010	67
340190001	20MAR2010	67
340190001	21MAR2010	65
340210005	19MAR2010	60
340210005	20MAR2010	66
340219991	20MAR2010	65
340210005	21MAR2010	67
340219991	21MAR2010	68
340230011	21MAR2010	61
340230011	20MAR2010	66
340250005	20MAR2010	61
340250005	21MAR2010	62
340273001	21MAR2010	64
340273001	20MAR2010	66
340290006	20MAR2010	70
340290006	21MAR2010	69
340315001	20MAR2010	65

Number of Days >= 0.060 ppm

StateID=New York

AQSID	date	dmax8
360010012	07MAR2010	62
360130011	08MAR2010	64
360130006	08MAR2010	63
360130011	17FEB2011	61
360130006	09MAR2010	72
360130006	07MAR2010	61
360130011	09MAR2010	80
360130011	11MAR2010	68
360130011	10MAR2010	66
360150003	11MAR2010	62
360150003	09MAR2010	62
360270007	21MAR2010	64
360310002	22MAR2010	61
360310003	17FEB2011	60
360310002	11MAR2010	70
360310002	12MAR2010	66
360310002	17MAR2012	62
360310002	16MAR2012	62
360310002	10MAR2010	61
360310002	07MAR2010	61
360430005	12MAR2010	61
360430005	07MAR2010	60
360530006	11MAR2010	67
360530006	07MAR2010	65
360530006	10MAR2010	65
360530006	09MAR2010	65
360631006	17MAR2011	61
360631006	17FEB2011	66
360715001	21MAR2010	64
360715001	20MAR2010	62
360750003	09MAR2010	61
360790005	21MAR2010	66
360790005	20MAR2010	61
360790005	19MAR2010	61
360830004	19MAR2010	60

Number of Days >= 0.060 ppm

StateID=New York

AQSID	date	dmax8
360830004	07MAR2010	62
360850067	21MAR2010	61
360850067	20MAR2010	62
360870005	21MAR2010	66
360870005	20MAR2010	67
360870005	19MAR2010	62
360870005	07MAR2010	62
361010003	30MAR2011	62
361010003	17FEB2011	67
361030009	25MAR2010	61
361030009	21MAR2010	69
361030009	20MAR2010	67
361030009	21MAR2010	62
361030004	25MAR2010	60
361030004	21MAR2010	66
361030004	20MAR2010	65
361030002	21MAR2010	67
361030002	20MAR2010	65
361099991	11MAR2010	63
361099991	10MAR2010	66
361099991	09MAR2010	67
361099991	07MAR2010	60

Number of Days >= 0.060 ppm

StateID=North Carolina

AQSID	date	dmax8
370119991	28MAR2012	62
370119991	29MAR2012	61
370119991	19MAR2010	61
370119991	08MAR2010	62
370119991	12MAR2011	66
370119991	21MAR2010	61
370119991	15MAR2013	67
370119991	16MAR2013	63
370119991	25MAR2010	61
370119991	20MAR2010	60
370119991	09MAR2010	68
370119991	10MAR2010	63
370319991	19MAR2010	62
370319991	18MAR2011	62
370319991	10MAR2010	63
370319991	16MAR2013	63
370319991	09MAR2010	65
370319991	29MAR2012	61
370319991	20MAR2010	70
370511003	25MAR2010	64
370510008	20MAR2010	67
370510008	19MAR2010	66
371070004	29MAR2012	62
371139991	16MAR2013	65
371139991	15MAR2013	63
371139991	29MAR2012	66
371139991	28MAR2012	62
371139991	17FEB2011	63
371139991	25MAR2010	60
371139991	20MAR2010	65
371139991	09MAR2010	63
371170001	21MAR2010	64
371170001	20MAR2010	70
371170001	19MAR2010	63
371190041	30MAR2013	61

Number of Days >= 0.060 ppm

StateID=North Carolina

AQSID	date	dmax8
371190041	16MAR2013	62
371190041	30MAR2012	62
371190041	18MAR2011	61
371190041	13MAR2011	62
371190041	20MAR2010	65
371190041	19MAR2010	61
371190041	09MAR2010	63
371239991	30MAR2013	61
371239991	16MAR2013	63
371239991	29MAR2012	62
371239991	18MAR2011	61
371239991	13MAR2011	64
371239991	20MAR2010	61
371239991	19MAR2010	61
371239991	09MAR2010	61
371590021	30MAR2013	60
371590021	16MAR2013	62
371590021	18MAR2011	63
371590021	20MAR2010	68
371590021	19MAR2010	64
371590021	09MAR2010	68
371590021	08MAR2010	62
371790003	25MAR2010	61
371830014	20MAR2010	62

Number of Days >= 0.060 ppm

StateID=North Dakota

AQSID	date	dmax8
380070002	20APR2010	67
380070002	21APR2010	63
380070002	22APR2010	62
380130004	28MAR2011	62
380130004	20APR2010	65
380130004	19APR2010	61
380130004	21APR2010	62
380130004	23APR2010	66
380130004	10MAR2011	60
380130004	08MAR2013	61
380130004	22APR2010	68
380150003	22APR2010	62
380150003	20APR2010	65
380150003	23APR2010	64
380171004	30MAR2013	64
380171004	01APR2011	62
380171004	23APR2010	61
380171004	28MAR2013	60
380171004	05OCT2011	60
380250003	22APR2010	63
380250003	20APR2010	66
380530002	22APR2010	66
380530002	20APR2010	71
380530002	19APR2010	62
380530002	23APR2010	61
380530002	25MAR2011	62
380530002	21APR2010	66
380570004	23APR2010	66
380570004	22APR2010	63
380570004	20APR2010	65
380650002	30MAR2013	60
380650002	25MAR2011	60
380650002	23APR2010	68
380650002	22APR2010	65
380650002	20APR2010	67

Number of Days >= 0.060 ppm

StateID=North Dakota

AQSID	date	dmax8
380650002	19APR2010	61
381050003	30MAR2013	60

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Ohio

AQSID	date	dmax8
390090004	13NOV2010	63
390179991	10NOV2010	66
390179991	21MAR2012	70
390179991	20MAR2010	61
390179991	13NOV2010	63
390479991	30MAR2013	60
390479991	13NOV2010	61
390479991	20MAR2010	64
390479991	09MAR2010	60
391030004	09MAR2010	68
391030004	08MAR2010	67
391030004	07MAR2010	64
391219991	30MAR2013	63
391219991	23MAR2012	61
391219991	22MAR2012	63
391219991	17FEB2011	61
391219991	31MAR2010	61
391219991	21MAR2010	68
391219991	20MAR2010	68
391219991	19MAR2010	60
391219991	11MAR2010	60
391219991	09MAR2010	64
391219991	08MAR2010	64

Number of Days >= 0.060 ppm

StateID=Oklahoma

AQSID	date	dmax8
400019009	29JAN2011	62

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Pennsylvania

AQSID	date	dmax8
420019991	20MAR2010	67
420019991	21MAR2010	65
420030067	23MAR2012	67
420031005	11MAR2010	61
420030067	22MAR2012	61
420031005	21MAR2010	67
420031005	20MAR2010	64
420030010	23MAR2012	63
420030008	21MAR2010	62
420030008	20MAR2010	61
420070002	10MAR2013	62
420070002	23MAR2012	66
420070002	14MAR2012	60
420070002	17MAR2012	60
420070014	23MAR2012	63
420070005	23MAR2012	67
420070005	22MAR2012	62
420279991	08MAR2010	61
420279991	20MAR2010	65
420279991	21MAR2010	70
420450002	31MAR2013	61
420479991	21MAR2010	63
420479991	08MAR2010	61
420479991	11MAR2010	63
420590002	30MAR2013	66
420590002	10MAR2013	61
420630004	22MAR2012	61
420730015	23MAR2012	60
420850100	23MAR2012	65
420859991	23MAR2012	61
420859991	11MAR2010	68
420859991	10MAR2010	61
420859991	09MAR2010	62
420859991	07MAR2010	61
421010024	20MAR2010	68

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Pennsylvania

AQSID	date	dmax8
421010024	21MAR2010	70
421119991	21MAR2010	66
421119991	20MAR2010	66
421119991	11MAR2010	60
421119991	10MAR2010	64
421250005	23MAR2012	62
421255001	23MAR2012	67
421255001	22MAR2012	60
421250005	22MAR2012	61
421330011	30MAR2013	65

Number of Days >= 0.060 ppm

StateID=Rhode Island

AQSID	date	dmax8
440030002	19MAR2010	60
440030002	20MAR2010	64
440030002	31MAR2013	63
440071010	20MAR2010	61
440090007	20MAR2010	64

Number of Days >= 0.060 ppm

StateID=South Carolina

AQSID	date	dmax8
450010001	20MAR2010	62
450010001	29MAR2012	61
450010001	08MAR2010	61
450010001	09MAR2010	63
450010001	19MAR2010	60
450010001	28MAR2012	66
450030003	30MAR2013	61
450030003	22MAR2011	63
450030003	29MAR2013	61
450030003	18MAR2011	65
450070005	09MAR2010	65
450150002	29MAR2012	61
450150002	20MAR2010	64
450150002	22MAR2011	62
450150002	09MAR2010	63
450150002	16MAR2013	60
450150002	18MAR2011	68
450150002	30MAR2013	62
450190046	18MAR2011	64
450190046	31MAR2010	62
450190046	30MAR2013	66
450190046	26MAR2011	62
450190046	20MAR2010	66
450190046	09MAR2010	68
450210002	19MAR2010	63
450210002	20MAR2010	64
450210002	22MAR2011	60
450210002	18MAR2011	63
450210002	16MAR2013	61
450210002	15MAR2013	61
450210002	09MAR2010	69
450210002	08MAR2010	62
450250001	29MAR2012	63
450250001	19MAR2010	65
450250001	20MAR2010	65

Number of Days >= 0.060 ppm

StateID=South Carolina

AQSID	date	dmax8
450250001	18MAR2011	62
450250001	25MAR2010	61
450290002	09MAR2010	70
450290002	25MAR2010	67
450290002	20MAR2010	70
450290002	19MAR2010	61
450290002	19MAR2011	61
450290002	18MAR2011	66
450290002	03MAR2011	62
450290002	22MAR2011	65
450290002	13MAR2011	60
450310003	29MAR2012	63
450310003	13MAR2011	61
450310003	18MAR2011	67
450310003	09MAR2010	65
450310003	25MAR2010	62
450310003	20MAR2010	69
450370001	09MAR2010	65
450370001	18MAR2011	64
450370001	22MAR2011	63
450451003	09MAR2010	69
450451003	08MAR2010	60
450451003	20MAR2010	66
450451003	30MAR2013	60
450450016	09MAR2010	61
450451003	19MAR2010	62
450510003	09MAR2010	61
450730001	20MAR2010	63
450730001	09MAR2010	67
450730001	08MAR2010	63
450770002	19MAR2010	64
450770002	12MAR2011	62
450770002	16MAR2013	60
450770002	15MAR2013	66
450770003	13MAR2011	68

Number of Days >= 0.060 ppm

StateID=South Carolina

AQSID	date	dmax8
450770003	21MAR2011	65
450770003	29MAR2012	61
450770003	22MAR2011	62
450770003	14MAR2011	61
450770003	12MAR2011	74
450770002	29MAR2012	61
450770002	28MAR2012	62
450770002	21MAR2011	62
450770002	20MAR2010	66
450770002	09MAR2010	71
450770002	08MAR2010	62
450770002	21FEB2010	62
450790007	18MAR2011	64
450790007	29MAR2012	63
450790021	20MAR2010	65
450790021	18MAR2011	62
450791001	09MAR2010	69
450791001	19MAR2010	65
450791001	25MAR2010	61
450791001	30MAR2012	62
450791001	29MAR2012	66
450790021	29MAR2012	63
450791001	16MAR2013	60
450791001	18MAR2011	62
450791001	20MAR2010	68
450790021	25MAR2010	62
450790021	19MAR2010	64
450790021	09MAR2010	69
450790007	22MAR2011	60
450790007	13MAR2011	63
450790007	20MAR2010	64
450790007	09MAR2010	65
450830009	16MAR2013	65
450830009	09MAR2010	67
450830009	19MAR2010	63

StateID=South Carolina

AQSID	date	dmax8
450830009	20MAR2010	66
450830009	22MAR2011	61
450830009	18MAR2011	63
450830009	28MAR2012	60
450830009	30MAR2013	62
450830009	15MAR2013	66
450830009	29MAR2012	63
450830009	21MAR2011	62
450830009	08MAR2010	62
450910006	22MAR2011	60
450910006	12MAR2011	60
450910006	30MAR2012	62
450910006	28MAR2012	61
450910006	16MAR2013	63
450918001	30MAR2013	62
450910006	15MAR2013	63
450910006	29MAR2012	61
450910006	18MAR2011	65
450910006	20MAR2010	61
450910006	09MAR2010	66

Number of Days >= 0.060 ppm

StateID=South Dakota

AQSID	date	dmax8
460110003	18MAY2012	70
460110003	28MAY2010	67
460110003	29MAY2010	69
460110003	19APR2010	61
460110003	17MAY2012	68
460110003	15MAY2010	63
460110003	21MAY2010	62
460110003	17MAY2011	62
460110003	03MAY2012	60
460110003	22MAY2012	67
460110003	22APR2010	61
460110003	20APR2010	67
460110003	10MAY2012	62
460110003	05OCT2011	70
460110003	04OCT2011	64
460110003	06OCT2011	61
460110003	03OCT2011	65
460110003	17MAY2013	63
460110003	10OCT2013	62
460330132	16MAY2012	62
460330132	14MAY2012	61
460330132	30MAY2011	60
460930001	15MAY2012	60
460930001	14MAY2012	60
460930001	16MAY2012	61
460930001	24MAY2010	60
460990008	22APR2010	64
460990008	29MAY2010	68
460990008	17MAY2011	62
460990008	04OCT2011	63
460990008	24MAR2012	64
460990008	23MAR2012	63
460990008	10MAY2012	65
460990008	14MAY2012	61
460990008	01APR2012	62

Based on 2010 - 2013 Data

StateID=South Dakota

AQSID	date	dmax8
460990008	18MAY2012	72
460990008	22MAY2012	65
460990008	17MAY2013	68
460990008	30MAY2013	61
460990008	10OCT2013	67
460990008	18MAY2013	61
460990008	15MAY2013	66
460990008	29MAR2013	62
460990008	03OCT2012	64
460990008	17MAY2012	69
460990008	13MAY2012	63
460990008	03MAY2012	61
460990008	05OCT2011	73
460990008	03OCT2011	66
460990008	18MAY2011	60
460990008	28MAY2010	68
460990008	21APR2010	60
460990008	20APR2010	63
460990008	19APR2010	60
461270003	28MAY2010	68
461270003	05OCT2011	70
461270003	18MAY2012	65
461270003	17MAY2012	64
461270003	13MAY2012	61
461270003	03MAY2012	60
461270003	04OCT2011	60
461270003	29MAY2010	63
461270003	22APR2010	67
461270003	21APR2010	62
461270003	19APR2010	60
461270003	05MAR2010	61
461270001	10OCT2013	63
461270001	19MAY2013	67

Number of Days >= 0.060 ppm

StateID=Tennessee

AQSID	date	dmax8
470090101	13NOV2010	64
470090101	11NOV2010	61
470090101	21FEB2010	61
470090101	13FEB2011	63
470090101	16FEB2011	64
470090101	17FEB2011	68
470090101	01NOV2010	61
470090101	12NOV2010	72
471550101	17FEB2011	62
471550101	20FEB2013	67
471550101	21FEB2013	67
471550101	21FEB2010	63

Number of Days >= 0.060 ppm

StateID=Texas

AQSID	date	dmax8
480271047	01NOV2011	64
480850005	01NOV2011	62
481211032	01NOV2011	65
481210034	01NOV2011	64
482030002	01NOV2012	61
482030002	01NOV2011	60
482311006	01NOV2011	63
482570005	08NOV2012	61
482570005	01NOV2012	61
482570005	01NOV2011	61
483491051	08NOV2012	65
483491051	01NOV2011	62
483670081	01NOV2011	63
483970001	08NOV2012	60
483970001	01NOV2011	63
484393009	01NOV2011	61
484392003	01NOV2011	64
484390075	01NOV2011	60

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490030003	30APR2013	60
490030003	23APR2012	65
490037001	30APR2013	61
490037001	02OCT2010	63
490071003	22APR2011	60
490071003	27MAR2012	62
490071003	15APR2011	64
490071003	14APR2012	70
490071003	24MAR2013	61
490071003	22APR2012	66
490071003	24APR2012	71
490071003	08APR2012	62
490071003	06APR2012	60
490071003	25APR2013	62
490071003	27APR2012	64
490071003	28APR2012	70
490071003	25APR2012	61
490071003	06APR2011	66
490071003	13APR2012	61
490071003	14APR2011	61
490071003	24APR2013	60
490071003	21APR2012	61
490071003	23APR2013	61
490071003	23APR2012	65
490071003	30APR2012	62
490071003	09APR2012	60
490090001	14APR2011	61
490090001	03APR2011	60
490090001	06APR2011	63
490090001	15APR2011	68
490130002	23JAN2013	99
490137011	22JAN2013	111
490131001	08APR2012	60
490137011	25JAN2011	69
490130002	22JAN2013	94

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490131001	04MAR2013	61
490137011	14JAN2011	77
490131001	24APR2012	65
490137011	20FEB2013	96
490137011	26JAN2013	109
490130002	04FEB2013	77
490130002	07MAR2013	76
490137011	26FEB2011	61
490130002	19JAN2013	77
490137011	27JAN2011	78
490131001	05MAR2013	62
490130002	06FEB2013	98
490137011	15DEC2013	86
490130002	21JAN2013	106
490130002	24JAN2013	111
490130002	01MAR2013	83
490130002	17FEB2013	86
490137011	25FEB2011	62
490130002	28FEB2013	69
490130002	19FEB2013	76
490137011	18DEC2013	101
490137011	05FEB2011	64
490130002	09FEB2013	66
490137011	20DEC2013	69
490131001	24APR2013	61
490137011	18FEB2013	62
490137011	13JAN2011	80
490137011	15FEB2013	87
490137011	09JAN2011	83
490137011	22APR2011	62
490137011	26JAN2011	74
490130002	20JAN2013	95
490137011	03MAR2011	73
490137011	19FEB2013	71
490130002	10JAN2013	89

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490137011	28JAN2011	80
490137011	25JAN2013	108
490130002	21FEB2013	83
490137011	30JAN2011	87
490137011	31DEC2013	68
490131001	22JAN2013	65
490130002	05FEB2013	93
490137011	26FEB2013	69
490137011	06FEB2013	105
490137011	12FEB2011	104
490131001	06APR2011	65
490137011	07MAR2013	74
490130002	26JAN2013	107
490131001	19JAN2013	61
490137011	03MAR2013	68
490130002	14FEB2013	83
490130002	08FEB2013	87
490137011	29JAN2011	85
490137011	28FEB2013	75
490137011	06MAR2013	75
490137011	02MAR2011	83
490131001	30APR2013	61
490131001	30APR2012	61
490137011	16JAN2011	76
490137011	08JAN2011	85
490130002	26FEB2013	62
490137011	15JAN2011	67
490137011	08FEB2013	95
490131001	23APR2013	62
490137011	31JAN2011	80
490130002	02MAR2013	90
490131001	27APR2013	62
490130002	09JAN2013	88
490137011	23FEB2011	83
490137011	12DEC2013	63

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490137011	14DEC2013	73
490137011	16DEC2013	89
490130002	11JAN2013	65
490137011	03FEB2013	80
490137011	22FEB2011	69
490137011	09FEB2013	67
490137011	21FEB2013	97
490137011	12FEB2013	66
490131001	28APR2012	70
490137011	21JAN2013	86
490137011	14FEB2011	125
490137011	13FEB2013	73
490137011	15APR2011	67
490137011	16FEB2011	119
490137011	17DEC2013	101
490137011	05MAR2013	64
490130002	03MAR2013	85
490137011	05FEB2013	100
490137011	01MAR2013	92
490130002	05MAR2013	60
490130002	03FEB2013	74
490137011	24JAN2013	117
490137011	04FEB2013	84
490131001	07MAR2013	60
490130002	15FEB2013	78
490130002	18JAN2013	69
490137011	13DEC2013	71
490137011	15FEB2011	121
490137011	01FEB2013	72
490130002	25JAN2013	104
490131001	15APR2011	72
490137011	02MAR2013	89
490137011	21JAN2011	62
490130002	17JAN2013	63
490131001	25APR2013	63

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490130002	20FEB2013	86
490137011	11FEB2011	68
490130002	08JAN2013	75
490131001	14APR2012	63
490137011	19DEC2013	90
490137011	16FEB2013	90
490137011	14FEB2013	88
490137011	07FEB2013	95
490137011	13FEB2011	112
490137011	23JAN2013	109
490137011	06APR2011	60
490137011	07JAN2011	80
490131001	09APR2012	61
490130002	16FEB2013	95
490131001	23APR2012	60
490130002	07JAN2013	63
490137011	05MAR2011	64
490130002	13FEB2013	74
490137011	28FEB2011	62
490137011	24FEB2011	75
490137011	06JAN2011	68
490137011	14APR2011	60
490137011	02FEB2013	74
490137011	17FEB2013	70
490137011	01MAR2011	76
490131001	14APR2011	60
490130002	02FEB2013	73
490137011	27JAN2013	95
490130002	07FEB2013	90
490131001	22APR2011	63
490131001	27APR2012	61
490130002	06MAR2013	76
490130002	27JAN2013	91
490130002	01FEB2013	66
490170004	24APR2012	66

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490170004	06APR2012	61
490170004	27APR2012	62
490352004	23APR2011	62
490353006	15APR2011	61
490353006	02OCT2010	69
490352004	22APR2012	65
490352004	15APR2011	62
490352004	09APR2012	62
490352004	30APR2013	62
490353006	15APR2010	62
490353006	18APR2010	62
490353006	22APR2012	63
490370101	13APR2011	63
490370101	04APR2010	63
490370101	12APR2010	63
490370101	03APR2010	61
490370101	15APR2010	69
490370101	16APR2010	64
490370101	14APR2010	69
490370101	21APR2010	60
490370101	28APR2010	61
490370101	25MAR2011	61
490370101	17MAR2011	61
490370101	27APR2010	61
490370101	13APR2010	60
490370101	14APR2011	64
490370101	04MAR2013	61
490370101	08APR2013	63
490370101	26APR2013	61
490370101	16APR2013	62
490370101	13APR2012	71
490370101	07MAR2012	60
490370101	25APR2011	62
490370101	09APR2011	62
490370101	15APR2011	63

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490370101	14APR2012	72
490370101	25APR2012	68
490370101	27MAR2012	60
490370101	22APR2012	64
490370101	27APR2012	69
490370101	24APR2012	69
490370101	06APR2012	65
490370101	05APR2012	61
490370101	26MAR2012	63
490450003	15APR2011	62
490471003	14DEC2013	72
490471003	15DEC2013	78
490471002	12FEB2013	71
490472003	06JAN2011	78
490477022	14JAN2011	69
490477022	14APR2011	68
490477022	16JAN2011	62
490477022	15JAN2011	61
490477022	09JAN2011	65
490477022	13JAN2011	70
490472003	12JAN2011	62
490471003	28DEC2013	64
490472003	04MAR2011	62
490472003	14APR2011	61
490472003	15APR2011	63
490472003	05MAR2011	66
490472003	06MAR2011	61
490475632	13FEB2013	74
490475632	08FEB2013	76
490475632	24JAN2013	78
490475632	05FEB2013	79
490475632	20JAN2013	67
490477022	15FEB2013	70
490477022	14DEC2013	63
490477022	18DEC2013	81

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490477022	15DEC2013	74
490471003	01MAR2013	81
490472002	06FEB2010	83
490472002	15FEB2010	70
490472002	11FEB2010	91
490472002	19FEB2010	85
490472002	24FEB2010	78
490472002	28FEB2010	89
490472002	22FEB2010	62
490472002	04MAR2010	91
490472002	08MAR2010	65
490472002	16APR2010	63
490472003	08JAN2011	98
490471002	25JAN2013	121
490471002	07FEB2013	72
490471002	18JAN2013	96
490471003	05JAN2013	60
490471003	06JAN2013	64
490475632	06APR2012	60
490471002	06FEB2013	95
490471002	30APR2013	61
490471002	05FEB2013	94
490471002	16FEB2013	94
490471002	14FEB2013	97
490475632	27APR2012	69
490471002	04FEB2013	76
490472003	24FEB2011	111
490472003	23FEB2011	91
490472003	25FEB2011	82
490471002	03MAR2013	99
490472002	19JAN2010	80
490472003	27FEB2011	61
490472002	17JAN2010	99
490472002	15JAN2010	99
490472003	19FEB2010	104

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490477022	26JAN2013	95
490471002	02FEB2013	64
490477022	01FEB2013	62
490477022	27JAN2013	77
490472003	24FEB2010	85
490477022	04FEB2013	69
490471002	01FEB2013	61
490471002	15FEB2013	102
490471003	26FEB2013	61
490477022	26APR2013	61
490471003	02MAR2013	89
490471003	19FEB2013	64
490477022	20FEB2013	86
490477022	21FEB2013	68
490477022	19FEB2013	67
490471003	16FEB2013	92
490477022	12DEC2013	66
490477022	13DEC2013	66
490477022	16DEC2013	67
490477022	17DEC2013	81
490477022	19DEC2013	77
490477022	27DEC2013	64
490477022	28DEC2013	61
490475632	08JAN2013	66
490475632	09JAN2013	63
490475632	21JAN2013	83
490475632	22JAN2013	74
490475632	25JAN2013	98
490475632	26JAN2013	107
490475632	06FEB2013	84
490475632	07FEB2013	69
490475632	09FEB2013	60
490475632	10FEB2013	61
490475632	04FEB2013	68
490475632	16FEB2013	63

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490471003	20FEB2013	85
490475632	17FEB2013	77
490477022	08FEB2013	74
490477022	21MAR2013	60
490472003	06APR2011	61
490472003	22APR2011	62
490472003	23APR2012	60
490472003	24APR2012	64
490472003	28APR2012	72
490471003	12FEB2013	63
490472003	02MAR2011	93
490472003	01MAR2011	77
490471003	09FEB2013	68
490471003	08FEB2013	71
490472003	15FEB2010	89
490471003	06FEB2013	88
490471003	07FEB2013	79
490477022	02FEB2013	69
490471003	04FEB2013	71
490471003	05FEB2013	90
490471002	24JAN2013	121
490471003	02FEB2013	65
490471002	05MAR2013	63
490471003	27JAN2013	94
490471003	26JAN2013	115
490471003	24JAN2013	104
490472002	16JAN2010	93
490471002	22JAN2013	115
490471003	25JAN2013	109
490475632	25APR2012	65
490471003	22JAN2013	102
490471003	23JAN2013	96
490471003	08JAN2013	71
490472002	03JAN2010	82
490475632	15APR2012	61

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490472003	22FEB2011	67
490472003	21FEB2011	68
490472003	15FEB2011	133
490472003	14FEB2011	139
490472003	13FEB2011	116
490472003	11FEB2011	75
490472003	07FEB2011	72
490472003	06FEB2011	74
490472003	31JAN2011	88
490472003	29JAN2011	93
490472003	27JAN2011	87
490472003	26JAN2011	84
490472003	24JAN2011	67
490472003	21JAN2011	73
490472003	19JAN2011	71
490472003	17JAN2011	76
490472003	15JAN2011	70
490472003	14JAN2011	66
490472003	13JAN2011	73
490472003	09JAN2011	100
490472003	07JAN2011	92
490472003	05JAN2011	70
490472003	02OCT2010	64
490472003	01OCT2010	64
490472003	22APR2010	64
490472003	18APR2010	61
490472003	17APR2010	63
490472003	16APR2010	70
490472003	14APR2010	61
490472003	12MAR2010	61
490472003	07MAR2010	73
490472003	06MAR2010	89
490472003	05MAR2010	68
490472003	03MAR2010	112
490472003	01MAR2010	111

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490472003	27FEB2010	107
490472003	26FEB2010	113
490472003	25FEB2010	117
490472003	23FEB2010	73
490472003	22FEB2010	64
490472003	20FEB2010	76
490472003	18FEB2010	108
490472003	17FEB2010	92
490472003	16FEB2010	84
490472003	14FEB2010	103
490472003	12FEB2010	111
490472003	10FEB2010	88
490472003	09FEB2010	75
490472003	08FEB2010	93
490472003	06FEB2010	101
490472003	05FEB2010	94
490472003	04FEB2010	79
490472003	01FEB2010	61
490472003	31JAN2010	64
490472003	29JAN2010	65
490472003	27JAN2010	66
490472003	25JAN2010	65
490472003	21JAN2010	74
490472003	20JAN2010	81
490472003	19JAN2010	93
490472003	17JAN2010	122
490472003	15JAN2010	93
490472003	14JAN2010	111
490472003	13JAN2010	91
490472003	12JAN2010	76
490472003	11JAN2010	69
490472003	06JAN2010	81
490472003	05JAN2010	77
490472003	04JAN2010	74
490472003	02JAN2010	89

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490472003	01JAN2010	66
490477022	22JAN2013	108
490477022	23JAN2013	104
490472002	14APR2012	62
490477022	25JAN2013	87
490477022	07FEB2013	90
490477022	24JAN2013	100
490475632	01MAR2013	66
490472002	15APR2011	64
490472002	03MAR2011	77
490472002	01MAR2011	93
490472002	28FEB2011	68
490472002	27FEB2011	63
490472002	24FEB2011	74
490472002	23FEB2011	86
490475632	02MAR2013	62
490472002	22FEB2011	83
490472002	19FEB2011	71
490472002	16FEB2011	125
490472002	15FEB2011	108
490472002	13FEB2011	101
490472002	12FEB2011	87
490475632	05MAR2013	61
490472002	11FEB2011	72
490472002	31JAN2011	72
490472002	30JAN2011	89
490472002	29JAN2011	85
490472002	28JAN2011	81
490472002	27JAN2011	78
490475632	21MAR2013	61
490472002	26JAN2011	76
490472002	25JAN2011	62
490472002	21JAN2011	61
490472002	17JAN2011	64
490472002	16JAN2011	82

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490472002	14JAN2011	68
490472002	13JAN2011	79
490472002	09JAN2011	83
490472002	07JAN2011	88
490472002	06JAN2011	80
490472002	05JAN2011	66
490472002	01OCT2010	67
490475632	26APR2013	62
490475632	21FEB2013	65
490472002	22APR2010	63
490472002	15APR2010	68
490472002	14APR2010	60
490472002	09MAR2010	65
490472002	07MAR2010	69
490472002	06MAR2010	69
490472002	05MAR2010	60
490472002	03MAR2010	105
490472002	02MAR2010	79
490472002	01MAR2010	86
490472002	27FEB2010	103
490472002	26FEB2010	95
490472002	25FEB2010	98
490472002	23FEB2010	67
490472002	20FEB2010	81
490472002	18FEB2010	87
490471002	16JAN2013	69
490472002	17FEB2010	78
490472002	16FEB2010	74
490472002	14FEB2010	77
490472002	13FEB2010	85
490472002	12FEB2010	85
490472002	10FEB2010	73
490472002	09FEB2010	62
490472002	07FEB2010	81
490472002	05FEB2010	82

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490472002	04FEB2010	71
490472002	28JAN2010	65
490472002	27JAN2010	63
490472002	20JAN2010	68
490472002	18JAN2010	89
490472002	10JAN2010	65
490471003	29DEC2013	73
490471003	17FEB2013	89
490471002	02MAR2013	95
490471003	03FEB2013	68
490471003	11JAN2013	73
490471003	21JAN2013	102
490471002	26FEB2013	60
490471002	17FEB2013	88
490471002	10JAN2013	104
490471002	03FEB2013	67
490471002	26JAN2013	126
490471002	27DEC2012	60
490477022	03FEB2013	69
490471002	09JAN2013	100
490471002	29APR2012	63
490471002	24APR2012	65
490477022	06FEB2013	87
490471002	14APR2011	63
490471002	07MAR2013	72
490471002	14FEB2011	107
490471002	07JAN2011	84
490471003	17DEC2013	70
490471002	08JAN2013	90
490471002	09FEB2013	75
490471002	06JAN2013	73
490471002	07JAN2013	82
490471002	01JAN2013	66
490471002	04JAN2013	68
490471003	28FEB2013	63

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490472003	02MAR2010	96
490472003	17MAR2010	64
490472003	15APR2010	68
490472003	04MAR2010	117
490472003	19APR2010	61
490472003	09MAR2010	61
490471002	03JAN2013	71
490475632	22APR2012	64
490471002	02JAN2013	70
490475632	28APR2012	78
490475632	30APR2012	60
490471002	28FEB2013	72
490472003	28FEB2010	124
490472002	02OCT2010	61
490475632	29APR2012	66
490470014	01OCT2010	60
490471002	15APR2010	66
490471002	16APR2010	63
490471002	18APR2010	60
490471002	19APR2010	60
490471002	22APR2010	64
490471002	17APR2010	62
490475632	19FEB2013	71
490471002	31DEC2012	62
490471002	06JAN2011	75
490471002	08JAN2011	88
490471002	05JAN2011	63
490471002	13JAN2011	71
490471002	14JAN2011	71
490471002	09JAN2011	82
490471002	26JAN2011	61
490471002	27JAN2011	66
490471002	29JAN2011	62
490471002	17JAN2011	70
490471002	31JAN2011	68

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490471002	05FEB2011	61
490471002	11FEB2011	72
490471002	30JAN2011	68
490471002	13FEB2011	91
490471002	16JAN2011	67
490471002	15FEB2011	104
490471002	12FEB2011	86
490471002	22FEB2011	62
490471003	13FEB2013	76
490471002	23FEB2011	72
490471002	16FEB2011	106
490471002	02MAR2011	68
490471002	15APR2011	61
490471002	01MAR2011	70
490471003	21FEB2013	68
490471002	24FEB2011	68
490471002	01MAR2013	87
490477022	09FEB2013	62
490471002	06APR2012	60
490471002	08APR2012	61
490471002	14APR2012	71
490471002	27MAR2012	60
490471002	23APR2012	63
490471002	25APR2012	61
490471002	20APR2012	63
490471002	28APR2012	70
490477022	16FEB2013	69
490471002	27APR2012	62
490471002	30APR2012	61
490472002	04JAN2010	69
490472002	02JAN2010	72
490475632	23APR2012	64
490472002	12JAN2010	77
490472002	06JAN2010	80
490471002	17JAN2013	82

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490471002	23JAN2013	110
490472002	05JAN2010	74
490477022	22APR2011	64
490475632	14APR2012	70
490471002	13FEB2013	88
490471002	06MAR2013	76
490471003	26APR2013	62
490475632	13APR2012	62
490472003	31DEC2012	61
490472002	13JAN2010	84
490472002	08JAN2011	95
490472002	14JAN2010	86
490475632	24APR2012	69
490471003	20JAN2013	101
490477022	05FEB2013	83
490471002	21FEB2013	80
490477022	17FEB2013	82
490472003	28JAN2011	91
490472003	22JAN2011	75
490472003	05FEB2011	67
490472003	30JAN2011	102
490471002	11JAN2013	91
490472003	12FEB2011	97
490475632	20FEB2013	69
490475632	03MAR2013	64
490472002	25FEB2011	60
490472002	02MAR2011	81
490472003	16FEB2011	139
490471002	05JAN2013	68
490475632	06MAR2013	63
490472002	21FEB2011	65
490472003	16JAN2011	86
490472003	03JAN2010	91
490472003	10JAN2010	68
490472002	28APR2012	65

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490477022	08JAN2011	83
490471002	19FEB2013	75
490477022	07JAN2011	78
490471003	19DEC2013	77
490472002	24JAN2011	61
490472002	05FEB2011	60
490472003	26JAN2010	68
490472003	28JAN2010	78
490472002	14FEB2011	119
490472002	15JAN2011	68
490472003	18JAN2010	114
490472003	24JAN2010	61
490471003	31DEC2013	73
490472003	03FEB2010	64
490477022	14FEB2013	73
490472003	07FEB2010	103
490471003	03MAR2013	88
490477022	12FEB2013	63
490472002	01JAN2010	65
490472003	13FEB2010	123
490471002	27JAN2013	107
490472003	11FEB2010	99
490471003	18DEC2013	80
490477022	13FEB2013	68
490471003	27APR2013	61
490471003	16DEC2013	72
490471003	19JAN2013	92
490471003	07JAN2013	66
490471003	17JAN2013	65
490472003	30APR2012	60
490472003	27DEC2012	61
490471003	06MAR2013	71
490471003	18JAN2013	78
490472003	27APR2012	62
490477022	15APR2011	63

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490472003	22APR2012	61
490471002	20FEB2013	93
490471003	09JAN2013	66
490472003	14APR2012	67
490477022	06JAN2011	68
490472002	11JAN2010	73
490472003	03MAR2011	94
490471003	14FEB2013	82
490471003	15FEB2013	71
490471003	10JAN2013	82
490472003	16JAN2010	95
490472003	28FEB2011	70
490471002	08FEB2013	79
490495010	08APR2011	67
490495010	15APR2011	64
490490002	16APR2010	60
490490002	17APR2010	63
490490002	22APR2010	60
490490002	15APR2011	64
490490002	18APR2010	61
490490002	14APR2012	60
490490002	28APR2012	60
490490002	08APR2012	62
490495010	25APR2013	60
490495010	30APR2013	61
490495008	15APR2011	61
490530130	13APR2013	61
490530130	28APR2010	65
490530130	01OCT2010	60
490530130	13APR2011	66
490530130	29APR2011	74
490530130	20APR2011	61
490530130	15APR2011	65
490530130	04APR2012	61
490530130	05APR2012	64

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490530130	14APR2012	64
490530130	18APR2012	66
490530130	17APR2012	61
490530130	07APR2012	60
490530130	30APR2013	67
490530130	03OCT2012	60
490530130	30APR2012	62
490530130	07APR2010	63
490530130	30MAR2010	60
490530130	27APR2012	67
490530006	27APR2012	68
490530130	24APR2012	68
490530130	13APR2012	67
490530130	23APR2012	60
490530006	13APR2011	65
490530006	29APR2011	65
490530006	15APR2011	62
490530006	13APR2012	64
490530006	23APR2012	61
490530006	18APR2012	62
490530006	24APR2012	64
490530130	31MAR2010	63
490530130	08APR2010	62
490530130	12APR2010	62
490530130	25MAR2010	62
490530130	13APR2010	63
490530130	14APR2010	70
490530130	15APR2010	74
490530130	09APR2010	62
490530130	17APR2010	65
490530130	18APR2010	66
490530130	19APR2010	63
490530130	16APR2010	61
490530130	26APR2010	60
490530130	27APR2010	68

Number of Days >= 0.060 ppm

StateID=Utah

AQSID	date	dmax8
490571003	23APR2012	62
490570002	18APR2010	63
490571003	23APR2011	61
490570002	07OCT2012	62
490570002	08APR2012	64
490570002	19APR2010	64
490570002	17APR2010	60
490570002	15APR2010	62
490571003	15APR2011	63
490570002	15APR2011	63

Number of Days >= 0.060 ppm

StateID=Vermont

AQSID	date	dmax8
500030004	31MAR2013	61
500070007	31MAR2013	62

Number of Days >= 0.060 ppm

StateID=Virginia

AQSID	date	dmax8
510595001	21MAR2010	63
510595001	20MAR2010	62
510591005	20MAR2010	63
510591005	21MAR2010	61
510590005	20MAR2010	65
510590018	20MAR2010	65
510590018	21MAR2010	66
510590005	21MAR2010	65
510719991	21MAR2010	65
510719991	20MAR2010	67
510719991	19MAR2010	63
510719991	10MAR2010	65
510719991	09MAR2010	65
510719991	08MAR2010	61
510719991	18MAR2010	60
511130003	23MAR2012	61
511130003	17FEB2011	61
511130003	12MAR2011	60
511130003	30MAR2013	60
511479991	25MAR2010	61
511479991	21MAR2010	60
511479991	28MAR2012	61
511479991	20MAR2010	69
511479991	19MAR2010	61
511479991	09MAR2010	61

Number of Days >= 0.060 ppm

StateID=Washington

AQSID	date	dmax8
530530012	28OCT2011	60
530530012	27OCT2011	61

Number of Days >= 0.060 ppm

StateID=West Virginia

AQSID	date	dmax8
540939991	21MAR2010	65
540939991	20MAR2010	64

Number of Days >= 0.060 ppm

StateID=Wisconsin

AQSID	date	dmax8
550030010	29MAR2013	64
550030010	06MAR2010	61
550030010	07MAR2010	60
550030010	09MAR2010	61
550210015	14APR2010	63
550250041	14APR2010	64
550270001	01APR2010	64
550270001	14APR2010	65
550290004	14APR2010	68
550350014	29MAR2013	65
550370001	01APR2010	69
550370001	31MAR2010	60
550390006	14APR2010	62
550390006	01APR2010	62
550410007	08MAR2010	64
550410007	31MAR2011	62
550410007	01APR2011	64
550410007	01APR2010	69
550410007	31MAR2010	61
550410007	09MAR2010	63
550410007	07MAR2010	61
550410007	05MAR2010	61
550550002	14APR2010	67
550590019	14APR2010	75
550590019	10APR2010	65
550590019	31MAR2010	61
550610002	14APR2010	62
550630012	14APR2010	62
550630012	01APR2010	61
550710007	14APR2010	67
550710007	31MAR2010	62
550730012	14APR2010	64
550730012	31MAR2011	62
550730012	01APR2010	60
550790085	14APR2010	68

Number of Days >= 0.060 ppm

StateID=Wisconsin

AQSID	date	dmax8
550850004	14APR2010	62
550850004	01APR2010	69
550870009	14APR2010	61
550890008	14APR2010	65
550890009	14APR2010	66
551010017	14APR2010	62
551050024	14APR2010	67
551050024	01APR2010	65
551050024	31MAR2010	61
551091002	01APR2010	61
551110007	14APR2010	67
551110007	01APR2010	60
551170006	14APR2010	72
551199991	29MAR2013	63
551199991	01APR2010	66
551199991	05MAR2010	64
551230008	14APR2010	66
551230008	01APR2010	62
551230008	31MAR2010	62
551250001	14APR2010	62
551250001	01APR2010	70
551270005	13APR2011	64
551270005	14APR2010	69
551310009	14APR2010	62
551330027	14APR2010	63

Number of Days >= 0.060 ppm

StateID=Wyoming

AQSID	date	dmax8
560019991	27MAR2012	61
560019991	26MAR2012	62
560019991	06MAR2012	60
560019991	28MAR2010	61
560070100	02MAR2010	60
560070100	02MAR2011	61
560070100	18MAR2011	64
560070100	01MAR2011	61
560130099	26MAR2012	61
560130099	16FEB2011	62
560130099	28MAR2010	63
560130900	29MAR2012	63
560130099	19MAR2011	63
560130099	02MAR2011	66
560130099	18MAR2011	60
560130099	01MAR2011	64
560130099	24MAR2011	61
560130099	29MAR2012	60
560130099	27MAR2010	62
560130232	02MAR2011	66
560210100	29MAR2012	61
560210100	26MAR2012	63
560350097	20MAR2011	63
560350100	12FEB2011	60
560350100	14MAR2011	79
560350100	18MAR2011	71
560350100	06MAR2011	77
560351002	13FEB2011	63
560350100	01MAR2011	69
560350100	28FEB2011	68
560350100	20MAR2011	61
560350099	01MAR2010	60
560350097	02MAR2011	80
560350097	18MAR2011	64
560350097	10MAR2011	84

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Wyoming

AQSID	date	dmax8
560350097	25MAR2011	63
560351002	26MAR2011	61
560350097	05MAR2011	67
560350101	15MAR2011	66
560350100	24MAR2011	62
560350100	02MAR2011	75
560350100	10MAR2011	85
560351002	15MAR2011	85
560351002	10MAR2011	69
560351002	12MAR2011	85
560350099	18FEB2011	68
560350099	28FEB2011	61
560350099	29JAN2011	69
560351002	07MAR2011	61
560351002	01MAR2011	73
560350101	05MAR2011	80
560351002	29JAN2011	63
560350099	28MAR2011	61
560351002	05MAR2011	77
560350099	06MAR2011	63
560350097	03MAR2011	67
560350097	01MAR2011	66
560350097	06MAR2011	62
560350097	19MAR2011	62
560350097	19FEB2011	60
560359991	30JAN2010	61
560350097	24MAR2011	66
560350097	15FEB2011	80
560350099	28FEB2010	63
560350099	12FEB2011	62
560350099	01MAR2011	121
560350099	09MAR2011	74
560350099	21FEB2011	77
560350099	05MAR2011	103
560351002	23MAR2011	60

Based on 2010 - 2013 Data

Number of Days >= 0.060 ppm

StateID=Wyoming

AQSID	date	dmax8
560350100	03FEB2011	61
560359991	11MAR2012	61
560350100	15FEB2011	74
560350100	18FEB2011	65
560350100	13FEB2011	67
560350100	05MAR2011	64
560351002	14MAR2011	69
560351002	09MAR2011	68
560351002	02MAR2011	94
560351002	28FEB2011	61
560351002	24FEB2011	62
560350101	18MAR2011	65
560350101	01MAR2011	83
560350100	23MAR2011	61
560350100	03MAR2011	72
560350100	19FEB2011	60
560350100	16FEB2011	62
560350100	14FEB2011	63
560350099	09MAR2012	62
560350099	14MAR2011	78
560350099	03MAR2011	85
560350099	26FEB2011	62
560350099	14FEB2011	87
560350097	26MAR2011	64
560350097	21MAR2011	65
560350097	15MAR2011	64
560350097	25FEB2011	62
560350097	16FEB2011	67
560350097	14FEB2011	64
560350101	03MAR2011	71
560350101	14MAR2011	66
560350100	15MAR2011	67
560350101	30JAN2010	61
560350099	13MAR2011	74
560350101	29JAN2011	63

Based on 2010 - 2013 Data

StateID=Wyoming

AQSID	date	dmax8
560350101	02MAR2011	90
560350101	10MAR2011	63
560350099	10MAR2011	68
560350101	21MAR2011	61
560350099	02MAR2011	124
560350099	24FEB2011	62
560350099	04MAR2011	67
560350097	23MAR2011	69
560350097	28FEB2011	72
560351002	26FEB2011	68
560351002	03MAR2011	66
560350099	15MAR2011	75
560351002	14FEB2011	67
560350099	30JAN2010	69
560350099	13FEB2011	72
560350099	10MAR2012	62
560350099	18MAR2011	66
560350099	07FEB2012	62
560350101	24MAR2011	62
560350101	09MAR2011	77
560351002	11MAR2011	66
560350097	18FEB2011	64
560350097	23FEB2011	62
560350099	08FEB2012	65
560350099	12MAR2011	121
560370300	01MAR2011	72
560370300	02MAR2011	72
560370300	12MAR2011	67
560370300	10MAR2011	63
560391011	07MAR2010	62
560391011	21MAR2011	61
560410101	01MAR2011	67
560410101	31MAR2010	64