



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

March 29, 2018

Cathy Stepp
Regional Administrator
U.S. EPA, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Dear Ms. Stepp:

Re: Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2))

In accordance with 40 Code of Federal Regulations (CFR) 51.103, the Indiana Department of Environmental Management (IDEM) is submitting a revision to its State Implementation Plan (SIP) to provide supplemental information to the Infrastructure SIP (Sections 110 (a)(1) and (a)(2)) that was submitted on December 12, 2011, for the 2008 8-hour ozone National Ambient Air Quality Standard (NAAQS). The Infrastructure SIP was approved on April 16, 2015 (80 FR 23713), but United States Environmental Protection Agency (U.S. EPA) did not act on Section 110(a)(2)(D)(i)(I) (Prongs 1 and 2) relating to interstate transport. This additional information fulfills the requirements for Section 110(a)(2)(D)(i)(I) providing for full approval of Indiana's Infrastructure SIP.

On October 27, 2017, U.S. EPA released a memorandum titled "Supplemental Information on the Interstate Transport State Implementation Plan Submissions for the 2008 Ozone National Ambient Air Quality Standards under Clean Air Act Section 110(a)(2)(D)(i)(I)" (Attachment A). That memo established through modeling that all monitors (outside of California) are projected to be under the 2008 standard in 2023. Therefore, Indiana will not significantly contribute to an ozone violation or a maintenance problem in another state.

In addition, IDEM obtained Indiana's nitrogen oxide (NO_x) and volatile organic compounds (VOCs) anthropogenic emissions for 2011 and 2023 from U.S. EPA's *Additional Updates to Emissions Inventories for the Version 6.3, 2011 Emissions Modeling Platform for the Year 2023, October 2017*¹ that were used for the modeling in

¹ <https://www.epa.gov/air-emissions-modeling/additional-updates-2011-and-2023-emissions-version-63-platform-technical>

U.S. EPA's October 27, 2017 memo. Table 1 displays Indiana's NO_x and VOCs emissions by source category, state total, and projected emission decreases. Overall emissions of NO_x and VOCs decrease significantly in the State of Indiana from 2011 to 2023. These decreases are due to permanent and enforceable control measures that will ensure continued compliance with the 2008 8-hour ozone standard.

Table 1: Indiana's NO_x and VOC Emissions Decreases from 2011 to 2023 from EPA's Technical Support Document: *Additional Updates to Emissions Inventories for the Version 6.3, 2011 Emissions Modeling Platform for the Year 2023, October 2017*

Sector Category	NO _x (tons per year)				VOCs (tons per year)			
	2011en	2023en	Decrease	% Decrease	2011en	2023en	Decrease	% Decrease
Point	180,294	129,460	50,834	28%	37,646	35,933	1,713	5%
Nonpoint	23,462	22,755	707	3%	115,052	105,448	9,604	8%
Nonroad	67,907	37,437	30,470	45%	42,213	25,333	16,880	40%
Onroad	171,431	53,849	117,582	69%	83,362	28,006	55,356	66%
TOTAL	443,094	243,501	199,593	45%	278,273	194,720	83,553	30%

Lastly, the modeling that U.S. EPA conducted takes into account all reasonably available control technology (RACT), state rules, and federal regulations, including the Federal Cross State Air Pollution Rule (CSAPR). Indiana has adopted a revision to its air rules (relevant parts of submittal in Attachment B) to implement CSAPR, adding the CSAPR trading programs found at 326 Indiana Administrative Code (IAC) 24-5, 326 IAC 24-6, and 326 IAC 24-7. The requirements for sulfur dioxide (SO₂) and nitrogen oxide (NO_x) annual trading programs are in the 2011 CSAPR rule, and the NO_x ozone season requirements were updated by the CSAPR Update Rule on September 7, 2016 (81 FR 74504). Allocations for the state programs start in 2021. Indiana's rule revisions became effective on November 24, 2017, and were submitted to U.S. EPA on November 27, 2017. State control measures have helped reduce VOC emissions and other types of emissions in Indiana. Indiana's fully approved and effective rules are found in 326 IAC 8. The following is a list of applicable state rules:

326 IAC 8-1-6	New facilities; general reduction requirements (Best Available Control Technology for Non-Specific Sources)
326 IAC 8-2	Surface Coating Emission Limitations
326 IAC 8-3	Organic Solvent Degreasing Operations
326 IAC 8-4	Petroleum Sources
326 IAC 8-5	Miscellaneous Operations
326 IAC 8-6	Organic Solvent Emission Limitations
326 IAC 8-10	Automobile Refinishing
326 IAC 8-14	Architectural and Industrial Maintenance Coatings
326 IAC 8-15	Standards for Consumer and Commercial Products.

IDEM provided an opportunity for a public hearing concerning the Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone

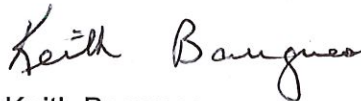
Ms. Cathy Stepp
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National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2)). Please refer to Attachment C for further information and dates regarding the public participation process. The final submittal documents the public review process, including a detailed summary of and response to substantive comments.

IDEM hereby confirms that Indiana's SIP has adequate provisions to prohibit sources or other emission activities within the state from emitting ozone precursors in amounts that would contribute significantly to nonattainment in, or interfere with maintenance by, any other state with respect to the 2008 ozone NAAQS. U.S. EPA's October 27, 2017, memorandum and Indiana's CSAPR rule provide a complete remedy for interstate transport requirements. As such, Indiana's legal obligations for Section 110(a)(2)(D)(i)(I) are fulfilled with this submittal.

This request consists of one (1) hardcopy of the required documentation. An electronic version of the submittal in PDF format that is identical to the hard copy has been sent to Doug Aburano, Chief of U.S. EPA Region 5's Attainment Planning and Maintenance Section and Chris Panos of U.S. Region 5. If you have any questions or need additional information, please contact Brian Callahan, Chief, Air Quality Standards and Implementation Section, Office of Air Quality at (317) 232-8244 or bcallaha@idem.IN.gov.

Sincerely,



Keith Baugues
Assistant Commissioner
Office of Air Quality

KB/sd/bc/gf/lf

Supporting Documents:

Attachment A: U.S. EPA's Supplemental Information on the Interstate Transport SIP

Attachment B: Indiana's Cross-State Air Pollution Rule (LSA #16-209)

Attachment C: Documentation of Public Process

cc: Doug Aburano U.S. EPA Region 5 (no enclosure)
Chris Panos, U.S. EPA Region 5 (no enclosure)
Steve Rosenthal, U.S. EPA Region 5 (no enclosure)
Sarah Arra, U.S. EPA Region 5 (no enclosure)
Keith Baugues, IDEM (no enclosure)
Scott Deloney, IDEM (no enclosure)
Brian Callahan, IDEM (no enclosure)
Gale Ferris, IDEM (no enclosure)
Leslie Ferguson, IDEM (w/ enclosure)
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Attachment A

**United States Environmental Protection
Agency's (U.S. EPA's) October 27, 2017
Supplemental Information on the Interstate
Transport State Implementation Plan
Submissions for the 2008 Ozone National
Ambient Air Quality Standards under Clean Air
Act Section 110(a)(2)(D)(i)(I)**

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

October 27, 2017

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

MEMORANDUM

SUBJECT: Supplemental Information on the Interstate Transport State Implementation Plan Submissions for the 2008 Ozone National Ambient Air Quality Standards under Clean Air Act Section 110(a)(2)(D)(i)(I)

FROM: Stephen D. Page
Director

A handwritten signature in cursive script that reads "Stephen Page".

TO: Regional Air Division Directors, Regions 1–10

The purpose of this memorandum is to provide supplemental information to states and the Environmental Protection Agency Regional offices as they develop or review state implementation plans (SIPs) that address section 110(a)(2)(D)(i)(I) of the Clean Air Act (CAA), also called the “good neighbor” provision, as it pertains to the 2008 ozone National Ambient Air Quality Standards (NAAQS) of 75 parts per billion (ppb).¹ Specifically, we are providing future year ozone design values and contribution modeling outputs for monitors in the United States based on updated air quality modeling (for 2023) and monitoring data.² The EPA’s updated modeling indicates that there are no monitoring sites, outside of California, that are projected to have nonattainment or maintenance problems with respect to the 2008 ozone NAAQS of 75 ppb in 2023.

The EPA’s goal in providing this information is to assist states’ efforts to develop, supplement or resubmit good neighbor SIPs for the 2008 ozone NAAQS to fully address their interstate transport obligations. While the information in this memorandum and the associated air quality analysis data can inform the development of these SIPs, the information provided by this memorandum is not a final determination regarding states’ remaining obligations under the good neighbor provision. Any such determination would be made through notice-and-comment rulemaking.

¹ This memorandum supplements the EPA’s original memorandum on this subject, *Information on the Interstate Transport “Good Neighbor” Provision for the 2008 Ozone National Ambient Air Quality Standards (NAAQS) under Clean Air Act (CAA) Section 110(a)(2)(D)(i)(I)*. Memorandum from Stephen D. Page, Director, U.S. EPA Office of Air Quality Planning and Standards, to Regional Air Division Directors, Regions 1–10. January 22, 2015. Available at <https://www.epa.gov/sites/production/files/2015-10/documents/goodneighborprovision2008naaqs.pdf>. This memorandum also supplements analyses provided in the 2016 Cross-State Air Pollution Rule Update for the 2008 ozone NAAQS. 81 FR 74504 (October 26, 2016).

² Attachment A contains the projected 2023 ozone design values for monitors in the United States.

In addition to summarizing the EPA's review of relevant air quality projections as they relate to interstate transport obligations for the 2008 ozone NAAQS, this memorandum includes background on the good neighbor provision and the four-step interstate transport framework that the EPA has previously used, and continues to use, to address the good neighbor provision for regional pollutants, such as ozone. This background may further assist states in developing SIPs using these projections.

The Good Neighbor Provision

Under CAA sections 110(a)(1) and 110(a)(2), each state is required to submit a SIP that provides for the implementation, maintenance and enforcement of each primary or secondary NAAQS. Section 110(a)(1) requires each state to make this new SIP submission within 3 years after promulgation of a new or revised NAAQS. This type of SIP submission is commonly referred to as an “infrastructure SIP.” Section 110(a)(2) identifies specific elements that each plan submission must meet. Conceptually, an infrastructure SIP provides assurance that the submitting state’s SIP contains the necessary structural requirements to implement the new or revised NAAQS, whether by demonstrating that the state’s SIP already contains or sufficiently addresses the necessary provisions, or by making a substantive SIP revision to update the plan provisions.

In particular, CAA section 110(a)(2)(D)(i)(I) requires each state to submit to the EPA new or revised SIPs that “contain adequate provisions ... prohibiting, consistent with the provisions of this subchapter, any source or other type of emissions activity within the State from emitting any air pollutant in amounts which will ... contribute significantly to nonattainment in, or interfere with maintenance by, any other state with respect to any such national primary or secondary ambient air quality standard.” The EPA often refers to section 110(a)(2)(D)(i)(I) as the “good neighbor” provision and to SIP revisions addressing this requirement as good neighbor SIPs. Where a state does not submit a good neighbor SIP, or if the EPA disapproves the SIP, the CAA obligates the EPA to promulgate a federal implementation plan (FIP).

In applying the good neighbor provision for the 2008 ozone NAAQS, the EPA finalized in 2016 the Cross-State Air Pollution Rule Update for the 2008 ozone NAAQS (CSAPR Update).³ The CSAPR Update applied to 22 eastern states, each of which the EPA found had failed to submit an approvable SIP addressing the good neighbor provision for the 2008 ozone NAAQS.⁴ Through the CSAPR Update, the EPA promulgated FIPs for these 22 states by requiring power plants in those states to participate in an allowance trading program to partially address the requirements of the good neighbor provision by implementing emissions reductions that were achievable for the 2017 ozone season. Some states have already submitted or may be developing SIPs to adopt the CSAPR Update regulations and replace the CSAPR Update FIPs. However, the EPA acknowledged in the CSAPR Update that the rule may not fully address the requirements of the good neighbor provision for the 2008 ozone NAAQS for most of the states included and that

³ See 81 FR 74504 (October 26, 2016).

⁴ The CSAPR Update provided a full FIP for Tennessee and partial FIPs for Alabama, Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Mississippi, Missouri, New Jersey, New York, Ohio, Oklahoma, Pennsylvania, Texas, Virginia, West Virginia, and Wisconsin. The CSAPR Update did not promulgate FIPs for western states.

further analysis was needed of air quality and oxides of nitrogen (NO_x) reductions after 2017.⁵ Additionally, a few western states, not regulated in the CSAPR Update, do not yet have approved SIPs. As noted earlier, the EPA believes that the information conveyed through this memorandum can assist states in their efforts to develop, supplement or resubmit good neighbor SIPs for the 2008 ozone NAAQS to fully address their interstate transport obligations.

Framework to Address the Good Neighbor Provision

Through the development and implementation of several previous rulemakings,⁶ the EPA, working in partnership with states, established the following four-step interstate transport framework to address the requirements of the good neighbor provision for ozone and fine particulate matter (PM_{2.5}) NAAQS: (1) identify downwind air quality problems, (2) identify upwind states that contribute enough to those downwind air quality problems to warrant further review and analysis, (3) identify the emissions reductions necessary to prevent an identified upwind state from contributing significantly to those downwind air quality problems, and (4) adopt permanent and enforceable measures needed to achieve those emissions reductions.

The EPA most recently applied each step in this framework to address the good neighbor provision requirements for the 2008 ozone NAAQS in the CSAPR Update.⁷ Two aspects of the CSAPR Update (*i.e.*, selection of the analytic year and the scope of the CSAPR Update good neighbor remedy) are influential in the development of analyses discussed in this memorandum. First, in the CSAPR Update, the EPA selected 2017 as both the analytic year and the implementation year because the 2017 ozone season was the last full season from which data could be used to determine attainment with the 2008 ozone NAAQS by the July 20, 2018, attainment date for nonattainment areas classified as Moderate. Second, given the time constraints for implementing NO_x reduction strategies for the 2008 ozone NAAQS (*i.e.*, in the 2017 ozone season), the EPA, in the CSAPR Update, did not analyze or attempt to quantify further electric generating units (EGU) or non-EGU ozone season NO_x reductions available after 2017. Because the EPA's analysis showed persisting ozone transport problems after implementation of the CSAPR Update and because the EPA did not assess available emissions reductions after 2017, at the time of promulgation, the EPA could not definitively conclude, without further analysis, that the CSAPR Update fully addressed the requirements of the good neighbor provision. Therefore, the EPA explained in the final rule that the CSAPR Update may only provide a partial remedy to address interstate emissions transport for the 2008 ozone NAAQS for 21 of the covered states.⁸ As a result, these states (or the EPA) must take additional

⁵ The EPA also determined that the following 14 eastern states evaluated in the CSAPR Update had no emissions reduction obligations under the good neighbor provision for the 2008 ozone NAAQS: Connecticut, Florida, Georgia, Maine, Massachusetts, Minnesota, Nebraska, New Hampshire, North Carolina, North Dakota, Rhode Island, South Carolina, South Dakota, and Vermont. The EPA has already approved good neighbor SIPs for the 2008 ozone NAAQS for a number of these states and has pending actions to approve other SIPs.

⁶ See for example, Finding of Significant Contribution and Rulemaking for Certain States in the Ozone Transport Assessment Group Region for Purposes of Reducing Regional Transport of Ozone (also known as the NO_x SIP Call). 63 FR 57356 (October 27, 1998); Clean Air Interstate Rule (CAIR) Final Rule. 70 FR 25162 (May 12, 2005); CSAPR Final Rule. 76 FR 48208 (August 8, 2011); CSAPR Update. 81 FR 74504 (October 26, 2016). Each of these rulemakings also incorporated allowance trading programs to implement emissions reductions.

⁷ See details on the CSAPR Update analysis and methodology in the final rule at 81 FR 74504 (October 26, 2016).

⁸ The CSAPR Update provided a FIP fully addressing the good neighbor provision for Tennessee and FIPs that may only partially address the good neighbor provision for Alabama, Arkansas, Illinois, Indiana, Iowa, Kansas,

steps to fully satisfy the good neighbor provision, or show why no additional emissions reductions are necessary. It is for this reason that the EPA is now conducting and releasing our additional modeling for an analytic year after 2017.

Applying the Interstate Transport Framework to the EPA's 2023 Modeling for the 2008 Ozone NAAQS

This section explains the EPA's choice of 2023 as the analytic year and our application of the interstate transport framework to our updated modeling. As we discuss in the following paragraphs, the EPA's analysis indicates that no areas in the United States, outside of California, are expected to have problems attaining and maintaining the 2008 ozone NAAQS in 2023.

Step 1. Identification of Potential Downwind Nonattainment and Maintenance Receptors

One of the first steps in the modeling process is selecting a future analytic year. In determining the appropriate future analytic year for purposes of assessing remaining interstate transport obligations for the 2008 ozone NAAQS, the EPA considered two primary factors. First, the EPA considered the downwind attainment dates for the 2008 ozone NAAQS. In *North Carolina v. EPA*, the D.C. Circuit held that emissions reductions required by the good neighbor provision should be evaluated considering the relevant attainment dates of downwind nonattainment areas impacted by interstate transport.⁹ The next attainment dates for the 2008 ozone NAAQS will be July 20, 2021, for nonattainment areas classified as Serious and July 20, 2027, for nonattainment areas classified as Severe.¹⁰ Because the various attainment deadlines are in July, which is in the middle of the ozone monitoring season for all states, data from the calendar year prior to the attainment date (*e.g.*, data from 2020 for the 2021 attainment date and from 2026 for the 2027 attainment date) are the last data that can be used to demonstrate attainment with the NAAQS. In all cases, the statute provides that areas should attain as expeditiously as practicable.¹¹

Second, the EPA considered the timeframes that may be required for implementing further emissions reductions as expeditiously as practicable. Generally, emissions levels are expected to decline in the future through implementation of existing local, state and federal emissions reduction programs. This is an important consideration because the U.S. Supreme Court and the D.C. Circuit Court have both held that the EPA may not require emissions reductions greater than necessary to achieve attainment and maintenance of the NAAQS in downwind areas.¹² Therefore, if new controls cannot be implemented feasibly for several years when air quality will likely be cleaner, the EPA should evaluate air quality in a future year to ensure that any potential emissions reductions would not over-control relative to the identified ozone problem.

Kentucky, Louisiana, Maryland, Michigan, Mississippi, Missouri, New Jersey, New York, Ohio, Oklahoma, Pennsylvania, Texas, Virginia, West Virginia, and Wisconsin. The CSAPR Update did not promulgate FIPs for western states.

⁹ 531 F.3d 896, 911–12 (D.C. Cir. 2008) (holding that the EPA must coordinate interstate transport compliance deadlines with downwind attainment deadlines).

¹⁰ While there are no areas (outside of California) that are classified as either Serious or Severe, these classifications (and the associated attainment dates) are required under the statute in the event that the many downwind Moderate nonattainment areas fail to attain by their attainment date of July 20, 2018.

¹¹ See CAA section 181(a)(1).

¹² *EPA v. EME Homer City Generation, L.P.*, 134 S. Ct. 1584, 1600–01 (2014); *EME Homer City Generation, L.P. v. EPA*, 795 F.3d 118, 127 (D.C. Cir. 2015).

Accordingly, it is reasonable to evaluate downwind air quality, and identify any remaining receptors, in the year in which the EPA expects additional emissions reductions, if any, to be implemented.

While the CSAPR Update included emissions reductions associated with EGU control strategies that could be implemented on a shorter timeframe (*i.e.*, by the 2017 ozone season), the EPA concluded that additional emissions reductions from EGUs would likely require the installation of new post-combustion controls. For this analysis, the EPA assumed that the analytic year should reflect the time needed to plan for, install, and test new EGU and non-EGU emissions controls across multiple states. This assumption was based on previous interstate ozone transport analyses showing that multiple upwind states are typically linked to downwind ozone problems.¹³ Further, the EPA assumed that new emissions controls would likely be considered on multiple upwind source categories, including those that currently do not report emissions to the EPA under Part 75 and, therefore, may have relatively more uncertainty associated with their emissions levels, existing control efficiencies and further emissions reduction potential. The scope and uncertainty associated with potential new EGU and non-EGU controls led the EPA to assume that it could take up to 4 years for new controls to be fully operational following promulgation of a final rule. For example, the EPA believes that it is reasonable to assume that the installation of these new post-combustion controls for state- or regional-level fleets of EGUs or controls for non-EGU point sources may take up to 4 years following promulgation of a final rule.¹⁴ In addition and not accounting for time needed for permitting or determining and installing appropriate monitoring equipment, the EPA's most recent assessment of non-EGU controls indicates the timing for installing controls is uncertain.¹⁵

For purposes of conducting updated modeling, to determine in what year future emissions reductions might be implemented, the EPA, therefore, considered the timeframe in which a future rulemaking that might require such emissions reductions would likely be finalized. The EPA is subject to several statutory and court-ordered deadlines to address the requirements of the good neighbor provision for the 2008 ozone NAAQS for several states. The next such deadline is a court-ordered deadline of June 30, 2018, for the EPA to address these requirements for Kentucky,¹⁶ followed by several statutory deadlines in 2018 and 2019.¹⁷ The notice-and-comment rulemakings that must be undertaken to address these requirements, whether in the context of SIPs or FIPs, are unlikely to be completed any earlier than mid-2018 and are likely to continue into 2019. Accordingly, given that the EPA believes that it is reasonable to assume that installation of new emissions controls for EGUs and non-EGUs that could be required under

¹³ See 81 FR 74504 (October 26, 2016).

¹⁴ See 81 FR 74562 (October 26, 2016).

¹⁵ For the EPA's most current assessment of controls for non-EGU emissions sources, see *Assessment of Non-EGU NOx Emission Controls, Cost of Controls, and Time for Compliance Final Technical Support Document (TSD) for the Cross-State Air Pollution Rule for the 2008 Ozone NAAQS* (Docket ID No.: EPA-HQ-OAR-2015-0500) available at https://www.epa.gov/sites/production/files/2017-05/documents/final_assessment_of_non-egu_nox_emission_controls_cost_of_controls_and_time_for_compliance_final_tsd.pdf.

¹⁶ Order, *Sierra Club v. EPA*, Case No. 3:15-cv-04328-JD (N.D. Cal. May 23, 2017).

¹⁷ The EPA has deadlines to promulgate FIPs for Indiana, Ohio and New Jersey by July 15, 2018; for Maryland by August 19, 2018; for Louisiana, Texas and Wisconsin by September 12, 2018; for New York by September 26, 2018; for Utah by November 18, 2018, and for Wyoming by March 6, 2019.

these rulemaking efforts may take up to 4 years, the EPA believes that such reductions are unlikely to be implemented for a full ozone season until 2023.

While 2023 is later than the attainment date for nonattainment areas classified as Serious (July 20, 2021), as explained above, it is unlikely that emissions control requirements could be promulgated and implemented by the Serious area attainment date. Likewise, the EPA also believes that it would not be reasonable to assume that emissions reductions could be postponed to the attainment date for nonattainment areas classified as Severe (July 20, 2027) because the statute instructs states to attain the NAAQS as expeditiously as practicable. Accordingly, the EPA believes that 2023 is a reasonable year to assess downwind air quality to evaluate any remaining requirements under the good neighbor provision for the 2008 ozone NAAQS.¹⁸ Thus, in selecting its future analytic year for the air quality modeling, the EPA balanced considerations such as attainment dates in downwind states, including the obligation to attain as expeditiously as practicable, the EPA's obligation to avoid unnecessary over-control of upwind state emissions, the timeframe in which any necessary emissions reductions could be feasibly implemented, and the timeframe required for rulemaking to impose any such emissions reductions that might be required.

After selecting 2023 as the appropriate analytic year, the EPA performed nationwide photochemical modeling for 2023 to identify nonattainment and maintenance receptors relevant for the 2008 ozone NAAQS. The EPA used as a starting point for this updated air quality modeling some of the data used in the January 2017 Notice of Data Availability (NODA).¹⁹ Although the EPA initially provided the NODA to assist states in developing SIPs to address their good neighbor obligations for the 2015 ozone NAAQS, the emissions files and other modeling input files are independent of the level of the NAAQS.²⁰ As discussed below, because the EPA began its updated analyses with the data from the January 2017 NODA, we also were able to incorporate some of the stakeholder feedback provided through the public comment process on the NODA.

We are providing an overview of the January 2017 NODA files to help states and the EPA Regional offices better understand the updated air quality modeling for potential application to the 2008 ozone NAAQS. The transport assessment discussed in the January 2017 NODA used a 2011-based modeling platform to develop base year and future year emissions inventories as inputs into the air quality model. The platform also included meteorology for 2011, base year emissions for 2011 and future year base case emissions for 2023. The EPA performed air quality modeling to project ozone design values for 2023 and used these projections to identify nonattainment and maintenance receptors. The EPA then used ozone source apportionment modeling for 2023 to quantify contributions from emissions in each state to ozone concentrations at each of the projected nonattainment and maintenance receptors in that future year. As part of the NODA process and the ensuing 90-day comment period, the EPA made available and took

¹⁸ Using the 2023 analytic year also allowed the EPA to begin the updated analysis using the data sets originally developed for the January 2017 NODA, which we revised in response to stakeholder feedback. Accordingly, the EPA initiated its analysis more quickly than if a different year had been chosen, which might have delayed subsequent rulemaking actions and therefore emissions reductions.

¹⁹ 82 FR 1733 (January 6, 2017).

²⁰ Good neighbor SIPs for the 2015 ozone NAAQS are due within 3 years of promulgation of the revised NAAQS, or by October 2018.

comment on (1) the emissions inventories for 2011 and 2023, supporting data used to develop those inventories, methods and data used to process emissions inventories into a form that can be used for air quality modeling and (2) air quality modeling results for 2011 and 2023, base period (*i.e.*, 2009-2013) average and maximum design value concentrations, projected 2023 average and maximum ozone design value concentrations and projected 2023 ozone contributions from state-specific anthropogenic emissions and other contribution categories to ozone concentrations at individual ozone monitoring sites. The EPA received comments on the transport modeling NODA from nearly 50 commenters, including 21 state air agencies, 3 multi-state groups and 23 industry groups.

Following the close of the NODA public comment period on April 6, 2017, the EPA began incorporating stakeholder feedback into its EGU and non-EGU emissions projections and its modeling platform. After incorporating many of the suggested updates, the EPA hosted conference calls with these same stakeholders to announce our intent to update the ozone transport air quality modeling and to review updates to the 2011 and projected 2023 emissions inventories (including specific changes to the oil and gas projection methodology),²¹ describe incorporated changes to the EGU emissions projections²² and changes to the modeling platform described here.

Regarding emissions inventories, the updated 2023 modeling reflects revisions to the January 2017 NODA approach for projecting future year emissions from EGUs. The approach used in this modeling is consistent with the EGU projections that the EPA used in the CSAPR Update, specifically the EGU projection called the “budget-setting base case.”²³ In brief, the EPA used the CSAPR Update budget-setting approach to develop this projection in support of the updated 2023 ozone transport modeling that is the subject of this memorandum. The EGU projection begins with 2016 reported Part 75 sulfur dioxide (SO₂) and NO_x data for units reporting under the Acid Rain and CSAPR programs. These were the most recent ozone season data available at the time of the EPA’s analysis. The EPA then extended these observed emissions levels forward to 2023, and made unit-specific adjustments to emissions to account for upcoming retirements, post-combustion control retrofits, coal-to-gas conversions, combustion controls upgrades, new units, CSAPR Update compliance, state rules and Best Available Retrofit Technology (BART) requirements.²⁴ The resulting estimated EGU emissions values for this application of 2023 air quality modeling are based on the latest reported operational data combined with known and anticipated fleet and pollution controls changes. For emissions from units not reporting under

²¹ See the TSD: *Additional Updates to Emissions Inventories for the Version 6.3, 2011 Emissions Modeling Platform for the Year 2023*, October 2017. Available at <https://www.epa.gov/air-emissions-modeling/2011-version-63-platform>.

²² See Section 4.1 of the TSD: *Additional Updates to Emissions Inventories for the Version 6.3, 2011 Emissions Modeling Platform for the Year 2023, October 2017* for details on the development of the EGU engineering analytics emissions estimates for the 2023 Flat File.

²³ See the preamble to the final CSAPR Update for more details on the development and use of the budget-setting base case.

²⁴ The EPA uses the U.S. Energy Information Association (EIA) Form 860 as a source for upcoming controls, retirements, and new units.

Part 75, the EPA largely relied on unadjusted 2011 National Emissions Inventory (NEI) data for its 2023 assumptions.²⁵

Another important emissions inventory update includes a revised methodology for estimating 2023 emissions from the oil and gas sector. The projection factors used in the updated 2023 oil and gas emissions incorporate state-level factors based on historic growth from 2011-2015 and region-specific factors that represent the projected growth from 2015 to 2023. The 2011-2015 state-level factors were based on historic state oil and gas production data published by the EIA, while the 2015-2023 factors are based on projected oil and gas production in EIA's 2017 Annual Energy Outlook (AEO) Reference Case without the Clean Power Plan for the six EIA supply regions. Details on the revised methodology that the EPA used to project oil and gas emissions to 2023, as well as changes to the base year 2011 and future year 2023 emissions inventories for other sectors, can be found in the technical support document, titled *Additional Updates to Emissions Inventories for the Version 6.3, 2011 Emissions Modeling Platform for the Year 2023, October 2017*.²⁶

The EPA used the Comprehensive Air Quality Model with Extensions (CAMx v6.40)²⁷ for modeling the updated emissions in 2011 and 2023.²⁸ The EPA used outputs from the 2011 and 2023 model simulations to project base period 2009-2013 average and maximum ozone design values to 2023 at monitoring sites nationwide. The EPA's modeling guidance²⁹ recommends that model predictions from the "3 x 3" array of grid cells surrounding the location of the monitoring site be used in the projection of future year design values. The EPA used this approach for projecting design values for the updated 2023 modeling. In addition, in light of comments on the January 2017 NODA and other analyses, the EPA also projected 2023 design values based on a modified version of this approach for those monitoring sites located in coastal areas. In brief, in the alternative approach, the EPA eliminated from the design value calculations those modeling data in grid cells not containing a monitoring site that are dominated by water (*i.e.*, more than 50 percent of the land use in the grid cell is water).³⁰ The base period and 2023 average and maximum design values at individual monitoring sites for both the "3 x 3" approach and the alternative approach affecting coastal sites are available at <https://www.epa.gov/airmarkets/october-2017-memo-and-information->

²⁵ For non-SO₂ and non-NO_x pollutants for units reporting under Part 75, the EPA used 2016 reported heat input to create a scaler for 2011 data. For instance, if heat input increased by 10 percent during that time frame for a particular unit, then its emissions for these pollutants were assumed to do the same.

²⁶ Available at <https://www.epa.gov/air-emissions-modeling/2011-version-63-platform>.

²⁷ CAMx v6.40 was the most recent public release version of CAMx at the time the EPA updated its modeling in fall 2017. ("Comprehensive Air Quality Model with Extensions version 6.40 User's Guide" Ramboll Environ, December 2016. <http://www.camx.com/>.)

²⁸ For the updated modeling, the EPA used the construct of the modeling platform (*i.e.*, modeling domain and non-emissions inputs) that we used for the NODA modeling, except that the photolysis rates files were updated to be consistent with CAMx v6.40. The NODA Air Quality Modeling Technical Support Document describing the modeling platform is available at <https://www.epa.gov/airmarkets/notice-data-availability-preliminary-interstate-ozone-transport-modeling-data-2015-ozone>.

²⁹ http://www.epa.gov/ttn/scram/guidance/guide/Draft_O3-PM-RH_Modeling_Guidance-2014.pdf.

³⁰ A model grid cell is identified as a "water" cell if more than 50 percent of the grid cell is water based on the 2006 National Land Cover Database. Grid cells that meet this criterion are treated as entirely over water in the Weather Research Forecast (WRF) modeling used to develop the 2011 meteorology for the EPA's air quality modeling.

interstate-transport-sips-2008-ozone-naaqs. This file also contains 2014-2016 measured design values.

When identifying areas with potential downwind air quality problems, the EPA's updated modeling used the same "receptor" definitions as those developed during the CSAPR rulemaking process and used in the CSAPR Update.³¹ That is, the EPA identified nonattainment receptors as those monitoring sites with current measured values exceeding the NAAQS that also have projected (*i.e.*, in 2023) average design values exceeding the NAAQS. The EPA identified maintenance receptors as those monitoring sites with current measured values below the NAAQS and projected average and maximum design values exceeding the NAAQS. The EPA also identified as maintenance receptors those monitoring sites with projected average design values below the NAAQS but with projected maximum design values exceeding the NAAQS. As with past application of receptor definitions, the EPA considered all nonattainment receptors to also be maintenance receptors because a monitoring site with a projected average design value above the standard necessarily also has a projected maximum design value above the standard. Attachment A contains the projected 2023 ozone design value for monitors in the United States.

The EPA's 2023 updated modeling, using either the "3 x 3" approach or the alternative approach affecting coastal sites, indicates that there are no monitoring sites, outside of California, that are projected to have nonattainment or maintenance problems with respect to the 2008 ozone NAAQS in 2023.³²

Step 2. Identification of States Contributing to Potential Downwind Nonattainment and Maintenance Receptors

Although the EPA has completed nationwide contribution modeling for 2023, this information may not be necessary for most states to develop good neighbor SIPs for the 2008 ozone NAAQS in light of the information described previously. The EPA does, however, plan to make its contribution modeling outputs available to the states and will coordinate with multi-jurisdictional organizations regarding the release of this information.

Conclusion

The EPA believes that states may consider using this national modeling to develop SIPs that fully address requirements of the good neighbor provision for the 2008 ozone NAAQS.³³ States may also be able to use this information to address other CAA obligations. States could include in any such submission state-specific information to support their reliance on the 2023 modeling data. Further, states may supplement the information provided in this memorandum with any additional information that they believe is relevant to addressing the good neighbor provision requirements. States may also choose to use information different from that provided in this document or on the EPA's website to identify nonattainment and maintenance receptors relevant

³¹ See 81 FR 74530-74532 (October 26, 2016).

³² This information is available at <https://www.epa.gov/airmarkets/october-2017-memo-and-information-interstate-transport-sips-2008-ozone-naaqs>.

³³ For a state already subject to a CSAPR Update FIP to get full SIP approval, the state would need to address in their SIP submission the reductions that it would achieve by implementing the FIP. One way states could accomplish this would be by submitting a CSAPR Update SIP using the guidance provided in the preamble to the CSAPR Update at 81 FR 74569 (October 26, 2016).

to development of their good neighbor SIPs. If this is the case, states should submit that information along with a full explanation and technical analysis for the EPA's evaluation. The EPA Regional offices and states should work together to accomplish the goal of developing, submitting and reviewing approvable SIPs that fully address the good neighbor provision for the 2008 ozone NAAQS.

Please share this information with the air agencies in your Region.

For Further Information

If you have any questions concerning this memorandum, please contact Norm Possiel at (919) 541-5692, *possiel.norm@epa.gov* for modeling information or Beth Palma at (919) 541-5432, *palma.elizabeth@epa.gov* for any other information.

Attachment

Attachment A

Projected Ozone Design Values at Individual Monitoring Sites Based on the EPA's Updated 2023 Transport Modeling

This attachment contains projected ozone design values at individual monitoring sites nationwide based on EPA's updated transport modeling for 2023. The scenario name for the updated modeling is "2023en." All of the data are in units of "ppb."

The following data are provided in the table below.

- (1) Base period 2009 – 2013 average and maximum design values based on 2009 – 2013 measured data.
- (2) Projected 2023 average and maximum design values based on the "3x3" approach recommended in EPA's photochemical modeling guidance.
- (3) Projected 2023 average and maximum design values based on a modified "3x3" approach in which model predictions in grid cells without monitors that are predominately water are excluded from the projection calculations ("No Water"). Note that the modified approach only affects the projection of design values for monitoring sites in or near coastal areas.
- (4) 2016 ozone design values based on 2014 – 2016 measured data (N/A indicates that a 2016 design value is not available). The following web site has additional information on the 2016 design values: <https://www.epa.gov/air-trends/air-quality-design-values#report>.

Note, a value of 75.9 ppb (or less) is considered to be in attainment of the 2008 ozone NAAQS, and a value of 76.0 ppb (or higher) is considered to be in violation of the 2008 ozone NAAQS.

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
10030010	AL	Baldwin	70.0	72	53.4	54.9	55.4	57.0	65
10331002	AL	Colbert	65.0	67	45.5	46.9	45.5	46.9	59
10499991	AL	DeKalb	66.0	66	50.7	50.7	50.7	50.7	63
10510001	AL	Elmore	66.3	68	49.5	50.7	49.5	50.7	N/A
10550011	AL	Etowah	61.7	62	46.2	46.4	46.2	46.4	61
10690004	AL	Houston	63.7	65	49.2	50.2	49.2	50.2	59
10730023	AL	Jefferson	72.3	75	54.9	56.9	54.9	56.9	68
10731003	AL	Jefferson	72.0	75	55.2	57.5	55.2	57.5	66
10731005	AL	Jefferson	75.3	77	56.8	58.1	56.8	58.1	N/A
10731009	AL	Jefferson	72.0	74	56.1	57.7	56.1	57.7	N/A
10731010	AL	Jefferson	73.7	76	55.4	57.2	55.4	57.2	64
10732006	AL	Jefferson	75.0	77	55.7	57.1	55.7	57.1	66
10735002	AL	Jefferson	72.0	74	54.2	55.7	54.2	55.7	N/A
10735003	AL	Jefferson	71.0	73	55.0	56.5	55.0	56.5	N/A
10736002	AL	Jefferson	76.7	80	58.8	61.3	58.8	61.3	68
10890014	AL	Madison	70.7	73	52.8	54.5	52.8	54.5	64
10970003	AL	Mobile	69.0	71	53.2	54.7	53.2	54.7	63

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
10972005	AL	Mobile	73.0	73	56.6	56.6	57.3	57.3	65
11011002	AL	Montgomery	67.3	69	49.6	50.8	49.6	50.8	62
11030011	AL	Morgan	68.7	71	54.2	56.0	54.2	56.0	64
11130002	AL	Russell	66.0	67	49.9	50.6	49.9	50.6	62
11170004	AL	Shelby	73.3	75	54.0	55.3	54.0	55.3	67
11190002	AL	Sumter	61.0	61	49.2	49.2	49.2	49.2	N/A
11250010	AL	Tuscaloosa	58.7	59	45.1	45.4	45.1	45.4	60
40038001	AZ	Cochise	72.0	73	69.4	70.4	69.4	70.4	65
40051008	AZ	Coconino	69.0	69	64.2	64.2	64.2	64.2	69
40058001	AZ	Coconino	71.0	72	66.3	67.2	66.3	67.2	67
40070010	AZ	Gila	74.5	75	64.2	64.6	64.2	64.6	71
40130019	AZ	Maricopa	76.7	79	69.3	71.4	69.3	71.4	73
40131004	AZ	Maricopa	79.7	81	69.8	71.0	69.8	71.0	75
40131010	AZ	Maricopa	69.7	72	60.4	62.3	60.4	62.3	73
40132001	AZ	Maricopa	74.7	76	66.1	67.2	66.1	67.2	68
40132005	AZ	Maricopa	76.0	77	65.3	66.2	65.3	66.2	77
40133002	AZ	Maricopa	73.3	75	65.6	67.2	65.6	67.2	70
40133003	AZ	Maricopa	75.7	77	66.2	67.3	66.2	67.3	70
40134003	AZ	Maricopa	74.7	76	67.8	69.0	67.8	69.0	70
40134004	AZ	Maricopa	72.7	74	63.7	64.8	63.7	64.8	69
40134005	AZ	Maricopa	69.7	71	61.3	62.4	61.3	62.4	N/A
40134008	AZ	Maricopa	76.3	77	65.2	65.8	65.2	65.8	71
40134010	AZ	Maricopa	71.0	72	60.8	61.7	60.8	61.7	66
40134011	AZ	Maricopa	65.0	66	57.6	58.5	57.6	58.5	59
40137003	AZ	Maricopa	70.7	72	62.4	63.6	62.4	63.6	67
40137020	AZ	Maricopa	73.7	75	64.4	65.5	64.4	65.5	72
40137021	AZ	Maricopa	76.7	77	65.9	66.2	65.9	66.2	76
40137022	AZ	Maricopa	73.3	75	63.0	64.4	63.0	64.4	74
40137024	AZ	Maricopa	73.3	74	64.1	64.7	64.1	64.7	71
40139508	AZ	Maricopa	74.0	76	62.5	64.2	62.5	64.2	73
40139702	AZ	Maricopa	74.7	77	63.9	65.9	63.9	65.9	72
40139704	AZ	Maricopa	74.5	76	64.0	65.3	64.0	65.3	N/A
40139706	AZ	Maricopa	74.0	75	63.6	64.5	63.6	64.5	70
40139997	AZ	Maricopa	76.0	77	68.1	69.0	68.1	69.0	75
40170119	AZ	Navajo	68.7	70	60.2	61.3	60.2	61.3	64
40190021	AZ	Pima	71.3	73	61.4	62.9	61.4	62.9	68
40191011	AZ	Pima	67.0	68	57.3	58.1	57.3	58.1	62
40191018	AZ	Pima	68.3	69	59.4	60.0	59.4	60.0	64
40191020	AZ	Pima	69.7	71	59.2	60.3	59.2	60.3	64

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
40191028	AZ	Pima	67.0	68	57.5	58.3	57.5	58.3	64
40191030	AZ	Pima	68.7	70	59.2	60.3	59.2	60.3	63
40191032	AZ	Pima	66.3	67	57.0	57.6	57.0	57.6	64
40191034	AZ	Pima	64.0	65	56.8	57.6	56.8	57.6	61
40213001	AZ	Pinal	73.0	74	62.6	63.4	62.6	63.4	70
40213003	AZ	Pinal	68.3	69	59.7	60.3	59.7	60.3	65
40213007	AZ	Pinal	68.3	69	61.5	62.1	61.5	62.1	65
40217001	AZ	Pinal	70.3	72	61.2	62.6	61.2	62.6	65
40218001	AZ	Pinal	76.0	76	65.3	65.3	65.3	65.3	71
40278011	AZ	Yuma	76.5	77	70.4	70.8	70.4	70.8	74
50350005	AR	Crittenden	77.3	79	60.3	61.6	60.3	61.6	67
51010002	AR	Newton	68.0	69	53.1	53.9	53.1	53.9	59
51130003	AR	Polk	72.3	73	60.8	61.3	60.8	61.3	62
51190007	AR	Pulaski	72.3	73	53.0	53.5	53.0	53.5	64
51191002	AR	Pulaski	75.7	77	55.6	56.6	55.6	56.6	64
51191008	AR	Pulaski	73.0	75	55.0	56.5	55.0	56.5	N/A
51430005	AR	Washington	71.0	73	57.1	58.8	57.1	58.8	59
60010007	CA	Alameda	73.3	76	64.2	66.6	64.2	66.6	74
60010009	CA	Alameda	45.7	49	44.3	47.5	44.3	47.5	55
60010011	CA	Alameda	45.0	45	44.0	44.0	44.0	44.0	49
60012001	CA	Alameda	56.0	56	52.9	52.9	52.9	52.9	66
60050002	CA	Amador	72.0	74	58.6	60.3	58.6	60.3	73
60070007	CA	Butte	76.3	77	62.0	62.6	62.0	62.6	75
60070008	CA	Butte	65.0	66	53.4	54.2	53.4	54.2	66
60090001	CA	Calaveras	75.0	77	61.1	62.7	61.1	62.7	76
60111002	CA	Colusa	61.0	62	52.5	53.4	52.5	53.4	63
60130002	CA	Contra Costa	70.7	73	62.9	64.9	62.9	64.9	67
60131002	CA	Contra Costa	71.7	74	62.7	64.8	62.7	64.8	68
60131004	CA	Contra Costa	51.0	51	49.7	49.7	49.7	49.7	54
60170010	CA	El Dorado	81.0	82	64.4	65.2	64.4	65.2	85
60170012	CA	El Dorado	68.3	69	60.7	61.4	60.7	61.4	N/A
60170020	CA	El Dorado	82.7	84	65.9	66.9	65.9	66.9	82
60190007	CA	Fresno	94.7	95	79.2	79.4	79.2	79.4	86
60190011	CA	Fresno	93.0	96	78.6	81.2	78.6	81.2	89
60190242	CA	Fresno	91.7	95	79.4	82.2	79.4	82.2	86
60192009	CA	Fresno	77.0	77	65.1	65.1	65.1	65.1	76
60194001	CA	Fresno	90.7	92	73.3	74.4	73.3	74.4	91
60195001	CA	Fresno	97.0	99	79.6	81.2	79.6	81.2	94
60210003	CA	Glenn	64.3	65	56.0	56.6	56.0	56.6	64

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
60250005	CA	Imperial	74.7	76	73.3	74.6	73.3	74.6	76
60251003	CA	Imperial	81.0	82	79.0	80.0	79.0	80.0	76
60254003	CA	Imperial	72.0	73	67.6	68.5	68.4	69.4	N/A
60254004	CA	Imperial	71.3	73	63.1	64.6	66.3	67.9	67
60270101	CA	Inyo	71.7	72	67.3	67.6	67.3	67.6	70
60290007	CA	Kern	91.7	96	77.7	81.3	77.7	81.3	87
60290008	CA	Kern	86.3	88	71.3	72.8	71.3	72.8	81
60290011	CA	Kern	80.0	81	69.5	70.4	69.5	70.4	84
60290014	CA	Kern	87.7	89	74.1	75.2	74.1	75.2	84
60290232	CA	Kern	87.3	89	73.7	75.2	73.7	75.2	77
60295002	CA	Kern	90.0	91	75.9	76.8	75.9	76.8	87
60296001	CA	Kern	84.3	86	70.9	72.4	70.9	72.4	81
60311004	CA	Kings	87.0	90	71.7	74.2	71.7	74.2	84
60370002	CA	Los Angeles	80.0	82	73.3	75.1	73.3	75.1	88
60370016	CA	Los Angeles	94.0	97	86.1	88.9	86.1	88.9	96
60370113	CA	Los Angeles	65.0	68	60.3	63.1	60.3	63.1	70
60371002	CA	Los Angeles	80.0	81	69.4	70.3	69.4	70.3	N/A
60371103	CA	Los Angeles	63.7	65	59.1	60.3	59.1	60.3	71
60371201	CA	Los Angeles	90.0	90	79.8	79.8	79.8	79.8	85
60371302	CA	Los Angeles	58.0	58	57.2	57.2	57.2	57.2	67
60371602	CA	Los Angeles	63.5	64	61.6	62.1	61.6	62.1	76
60371701	CA	Los Angeles	84.0	85	78.1	79.1	78.1	79.1	90
60372005	CA	Los Angeles	79.5	82	72.3	74.6	72.3	74.6	83
60374002	CA	Los Angeles	58.5	59	56.1	56.6	56.1	56.6	N/A
60376012	CA	Los Angeles	97.3	99	85.9	87.4	85.9	87.4	96
60379033	CA	Los Angeles	90.0	91	76.3	77.2	76.3	77.2	88
60390004	CA	Madera	79.3	81	68.6	70.1	68.6	70.1	83
60392010	CA	Madera	85.0	86	72.1	72.9	72.1	72.9	83
60410001	CA	Marin	52.3	53	47.6	48.2	47.2	47.9	61
60430003	CA	Mariposa	77.3	78	69.8	70.4	69.8	70.4	74
60430006	CA	Mariposa	77.0	78	64.6	65.5	64.6	65.5	75
60470003	CA	Merced	82.7	84	69.9	71.0	69.9	71.0	82
60530002	CA	Monterey	57.0	58	49.0	49.9	49.0	49.9	59
60530008	CA	Monterey	58.0	60	48.6	50.3	48.6	50.3	60
60531003	CA	Monterey	52.3	54	45.1	46.5	45.1	46.5	55
60550003	CA	Napa	62.3	65	51.9	54.2	51.9	54.2	62
60570005	CA	Nevada	77.7	79	62.3	63.3	62.3	63.3	83
60570007	CA	Nevada	76.0	78	60.7	62.3	60.7	62.3	N/A
60590007	CA	Orange	63.7	64	61.1	61.4	61.1	61.4	70

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
60591003	CA	Orange	61.3	62	58.1	58.8	57.8	58.4	69
60592022	CA	Orange	72.0	74	60.3	61.9	60.3	61.9	77
60595001	CA	Orange	69.7	71	68.3	69.6	68.3	69.6	74
60610003	CA	Placer	83.0	85	66.1	67.7	66.1	67.7	83
60610004	CA	Placer	74.0	75	58.9	59.7	58.9	59.7	76
60610006	CA	Placer	84.0	86	68.6	70.2	68.6	70.2	80
60650004	CA	Riverside	85.0	85	76.7	76.7	76.7	76.7	N/A
60650012	CA	Riverside	97.3	99	83.6	85.1	83.6	85.1	93
60650016	CA	Riverside	77.0	77	62.8	62.8	62.8	62.8	77
60651016	CA	Riverside	100.7	101	85.2	85.5	85.2	85.5	97
60652002	CA	Riverside	84.3	85	72.4	73.0	72.4	73.0	81
60655001	CA	Riverside	92.3	93	79.5	80.1	79.5	80.1	87
60656001	CA	Riverside	94.0	98	78.3	81.6	78.3	81.6	91
60658001	CA	Riverside	97.0	98	87.0	87.9	87.0	87.9	94
60658005	CA	Riverside	92.7	94	83.2	84.4	83.2	84.4	91
60659001	CA	Riverside	88.3	91	73.7	75.9	73.7	75.9	86
60659003	CA	Riverside	67.0	68	60.2	61.1	60.2	61.1	66
60670002	CA	Sacramento	76.7	77	64.8	65.0	64.8	65.0	77
60670006	CA	Sacramento	78.7	81	66.6	68.6	66.6	68.6	77
60670010	CA	Sacramento	70.3	71	60.4	61.0	60.4	61.0	69
60670011	CA	Sacramento	72.5	74	61.3	62.6	61.3	62.6	68
60670012	CA	Sacramento	93.3	95	74.5	75.9	74.5	75.9	83
60670014	CA	Sacramento	69.3	70	58.8	59.4	58.8	59.4	71
60675003	CA	Sacramento	86.3	88	69.9	71.3	69.9	71.3	79
60690002	CA	San Benito	62.0	66	52.0	55.4	52.0	55.4	63
60690003	CA	San Benito	70.0	70	59.9	59.9	59.9	59.9	69
60710001	CA	San Bernardino	77.0	78	68.0	68.9	68.0	68.9	80
60710005	CA	San Bernardino	105.0	107	96.2	98.1	96.2	98.1	108
60710012	CA	San Bernardino	95.0	97	84.1	85.8	84.1	85.8	91
60710306	CA	San Bernardino	83.7	85	76.2	77.4	76.2	77.4	86
60711004	CA	San Bernardino	96.7	98	89.8	91.0	89.8	91.0	101
60711234	CA	San Bernardino	69.0	69	64.1	64.1	64.1	64.1	69
60712002	CA	San Bernardino	101.0	103	93.1	95.0	93.1	95.0	97
60714001	CA	San Bernardino	94.3	97	86.0	88.5	86.0	88.5	90
60714003	CA	San Bernardino	105.0	107	94.1	95.8	94.1	95.8	101
60719002	CA	San Bernardino	92.3	94	80.0	81.4	80.0	81.4	86
60719004	CA	San Bernardino	98.7	99	88.4	88.7	88.4	88.7	104
60730001	CA	San Diego	61.3	63	58.0	59.6	58.0	59.6	61
60731001	CA	San Diego	63.0	64	56.4	57.3	56.2	57.0	67

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
60731002	CA	San Diego	70.3	72	55.9	57.3	55.9	57.3	N/A
60731006	CA	San Diego	81.0	82	69.4	70.2	69.4	70.2	81
60731008	CA	San Diego	64.7	67	55.1	57.1	54.9	56.8	70
60731010	CA	San Diego	56.3	59	53.2	55.8	53.2	55.8	62
60731016	CA	San Diego	68.0	69	59.8	60.7	59.8	60.7	68
60731018	CA	San Diego	69.7	71	59.2	60.3	59.2	60.3	N/A
60732007	CA	San Diego	57.7	58	54.0	54.2	54.0	54.2	N/A
60771002	CA	San Joaquin	68.0	69	59.1	60.0	59.1	60.0	68
60773005	CA	San Joaquin	79.0	80	67.2	68.1	67.2	68.1	79
60790005	CA	San Luis Obispo	64.3	66	54.1	55.5	54.1	55.5	62
60792006	CA	San Luis Obispo	54.3	57	45.4	47.7	45.4	47.7	57
60793001	CA	San Luis Obispo	53.3	55	45.4	46.9	45.4	46.9	55
60794002	CA	San Luis Obispo	58.7	62	49.0	51.7	49.0	51.7	62
60798002	CA	San Luis Obispo	62.3	63	52.3	52.9	52.3	52.9	63
60798005	CA	San Luis Obispo	78.0	79	66.0	66.8	66.0	66.8	73
60798006	CA	San Luis Obispo	75.0	76	64.0	64.9	64.0	64.9	68
60811001	CA	San Mateo	54.0	56	54.0	56.1	54.0	56.1	59
60830008	CA	Santa Barbara	57.7	59	50.1	51.3	50.2	51.4	61
60830011	CA	Santa Barbara	56.0	57	49.0	49.9	48.6	49.4	63
60831008	CA	Santa Barbara	50.3	52	42.1	43.5	42.1	43.5	54
60831013	CA	Santa Barbara	62.7	64	53.2	54.3	53.2	54.3	62
60831014	CA	Santa Barbara	67.0	69	57.5	59.2	57.5	59.2	64
60831018	CA	Santa Barbara	55.0	56	47.5	48.3	47.1	47.9	60
60831021	CA	Santa Barbara	66.7	71	58.6	62.4	57.6	61.3	63
60831025	CA	Santa Barbara	68.3	73	59.4	63.4	59.5	63.6	67
60832004	CA	Santa Barbara	53.0	54	45.5	46.4	45.5	46.4	56
60832011	CA	Santa Barbara	55.7	57	48.9	50.0	48.6	49.7	63
60833001	CA	Santa Barbara	59.7	62	51.1	53.0	51.1	53.0	62
60834003	CA	Santa Barbara	60.3	61	52.2	52.8	51.9	52.5	60
60850002	CA	Santa Clara	68.3	71	56.7	58.9	56.7	58.9	66
60850005	CA	Santa Clara	60.7	63	57.3	59.5	57.3	59.5	63
60851001	CA	Santa Clara	66.0	70	60.0	63.7	60.0	63.7	67
60852006	CA	Santa Clara	71.3	74	60.1	62.3	60.1	62.3	70
60852009	CA	Santa Clara	62.0	62	57.9	57.9	57.9	57.9	N/A
60870007	CA	Santa Cruz	53.0	55	47.1	48.9	47.1	48.9	57
60890004	CA	Shasta	60.0	64	48.8	52.0	48.8	52.0	70
60890007	CA	Shasta	67.0	69	55.1	56.7	55.1	56.7	68
60890009	CA	Shasta	68.0	69	55.3	56.2	55.3	56.2	N/A
60893003	CA	Shasta	66.3	68	57.2	58.7	57.2	58.7	65

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
60950004	CA	Solano	59.0	61	52.0	53.8	52.0	53.8	63
60950005	CA	Solano	67.3	69	56.0	57.4	56.0	57.4	64
60953003	CA	Solano	68.0	69	56.7	57.5	56.7	57.5	67
60970003	CA	Sonoma	48.0	50	39.0	40.6	39.0	40.6	N/A
60990005	CA	Stanislaus	75.0	75	65.2	65.2	65.2	65.2	81
60990006	CA	Stanislaus	87.0	88	74.8	75.7	74.8	75.7	83
61010003	CA	Sutter	65.0	66	53.4	54.3	53.4	54.3	65
61030004	CA	Tehama	75.3	76	62.3	62.9	62.3	62.9	79
61030007	CA	Tehama	72.5	73	59.7	60.1	59.7	60.1	67
61070006	CA	Tulare	81.7	85	69.1	71.9	69.1	71.9	84
61070009	CA	Tulare	94.7	96	76.1	77.2	76.1	77.2	89
61072002	CA	Tulare	85.0	88	68.9	71.4	68.9	71.4	80
61072010	CA	Tulare	89.0	90	73.1	73.9	73.1	73.9	83
61090005	CA	Tuolumne	73.3	74	60.6	61.2	60.6	61.2	79
61110007	CA	Ventura	71.7	76	62.9	66.7	62.9	66.7	69
61110009	CA	Ventura	74.0	77	63.7	66.2	63.7	66.2	74
61111004	CA	Ventura	76.7	77	66.1	66.4	66.1	66.4	74
61112002	CA	Ventura	81.0	83	70.5	72.2	70.5	72.2	77
61113001	CA	Ventura	60.7	63	53.3	55.3	53.3	55.3	63
61130004	CA	Yolo	68.7	70	56.5	57.6	56.5	57.6	64
61131003	CA	Yolo	69.0	69	59.5	59.5	59.5	59.5	69
80013001	CO	Adams	76.0	76	70.8	70.8	70.8	70.8	67
80050002	CO	Arapahoe	76.7	79	69.3	71.3	69.3	71.3	N/A
80050006	CO	Arapahoe	73.5	74	65.0	65.4	65.0	65.4	67
80130011	CO	Boulder	74.7	77	65.5	67.5	65.5	67.5	N/A
80310014	CO	Denver	71.0	73	66.2	68.0	66.2	68.0	N/A
80310025	CO	Denver	65.0	65	61.8	61.8	61.8	61.8	N/A
80350004	CO	Douglas	80.7	83	71.1	73.2	71.1	73.2	77
80410013	CO	El Paso	71.0	74	64.0	66.7	64.0	66.7	66
80410016	CO	El Paso	72.7	74	65.4	66.6	65.4	66.6	64
80450012	CO	Garfield	65.0	66	62.4	63.3	62.4	63.3	63
80590002	CO	Jefferson	74.0	74	66.7	66.7	66.7	66.7	N/A
80590005	CO	Jefferson	75.7	78	67.5	69.5	67.5	69.5	72
80590006	CO	Jefferson	80.3	83	71.3	73.7	71.3	73.7	77
80590011	CO	Jefferson	78.7	82	70.9	73.9	70.9	73.9	80
80590013	CO	Jefferson	74.5	75	65.6	66.1	65.6	66.1	70
80671004	CO	La Plata	73.0	74	66.0	66.9	66.0	66.9	N/A
80677001	CO	La Plata	68.7	69	61.9	62.2	61.9	62.2	68
80690007	CO	Larimer	75.7	77	66.8	68.0	66.8	68.0	69

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
80690011	CO	Larimer	78.0	80	71.2	73.0	71.2	73.0	75
80690012	CO	Larimer	71.0	71	64.2	64.2	64.2	64.2	N/A
80691004	CO	Larimer	68.7	72	63.3	66.3	63.3	66.3	70
80770020	CO	Mesa	67.0	68	63.1	64.1	63.1	64.1	63
80830006	CO	Montezuma	67.3	68	59.8	60.4	59.8	60.4	62
80830101	CO	Montezuma	68.3	69	59.3	59.9	59.3	59.9	65
81030005	CO	Rio Blanco	63.5	64	59.8	60.3	59.8	60.3	61
81230009	CO	Weld	74.7	76	70.2	71.4	70.2	71.4	70
90010017	CT	Fairfield	80.3	83	69.8	72.1	68.9	71.2	80
90011123	CT	Fairfield	81.3	83	66.4	67.8	66.4	67.8	78
90013007	CT	Fairfield	84.3	89	71.2	75.2	71.0	75.0	81
90019003	CT	Fairfield	83.7	87	72.7	75.6	73.0	75.9	85
90031003	CT	Hartford	73.7	75	60.7	61.7	60.7	61.7	75
90050005	CT	Litchfield	70.3	71	57.2	57.8	57.2	57.8	74
90070007	CT	Middlesex	79.3	81	64.7	66.1	64.7	66.1	79
90090027	CT	New Haven	74.3	78	62.3	65.4	61.9	65.0	76
90099002	CT	New Haven	85.7	89	71.2	73.9	69.9	72.6	76
90110124	CT	New London	80.3	84	66.4	69.5	67.3	70.4	72
90131001	CT	Tolland	75.3	77	61.4	62.8	61.4	62.8	73
100010002	DE	Kent	74.3	78	58.3	61.2	57.6	60.5	66
100031007	DE	New Castle	76.3	80	59.2	62.0	59.2	62.0	68
100031010	DE	New Castle	78.0	78	61.2	61.2	61.2	61.2	74
100031013	DE	New Castle	77.7	80	60.8	62.6	60.8	62.6	70
100051002	DE	Sussex	77.3	81	59.7	62.6	59.7	62.6	65
100051003	DE	Sussex	77.7	81	62.4	65.1	61.1	63.7	69
110010041	DC	DC	76.0	80	58.7	61.7	58.7	61.7	N/A
110010043	DC	DC	80.7	84	62.3	64.8	62.3	64.8	70
120013011	FL	Alachua	63.7	65	51.0	52.0	51.0	52.0	58
120030002	FL	Baker	61.7	63	50.5	51.6	50.5	51.6	59
120050006	FL	Bay	68.0	69	51.7	52.4	52.6	53.4	62
120090007	FL	Brevard	64.0	64	52.2	52.2	51.6	51.6	58
120094001	FL	Brevard	64.0	65	52.6	53.4	51.7	52.5	61
120110033	FL	Broward	58.0	59	53.6	54.5	53.6	54.5	59
120112003	FL	Broward	58.0	58	50.7	50.7	52.6	52.6	N/A
120118002	FL	Broward	59.3	60	53.1	53.7	55.7	56.3	62
120210004	FL	Collier	59.5	60	49.8	50.2	51.2	51.6	57
120230002	FL	Columbia	62.7	64	51.6	52.7	51.6	52.7	N/A
120310077	FL	Duval	63.3	66	49.8	51.9	51.2	53.3	N/A
120310100	FL	Duval	64.3	67	50.3	52.5	50.4	52.5	N/A

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
120310106	FL	Duval	63.0	64	51.4	52.2	51.4	52.2	N/A
120330004	FL	Escambia	68.7	70	54.0	55.0	55.8	56.8	64
120330018	FL	Escambia	72.0	73	56.2	57.0	58.8	59.6	64
120550003	FL	Highlands	63.3	64	52.8	53.4	52.8	53.4	60
120570081	FL	Hillsborough	71.7	73	60.6	61.7	60.8	61.9	68
120571035	FL	Hillsborough	68.3	69	57.5	58.1	58.4	59.0	66
120571065	FL	Hillsborough	70.7	72	59.9	61.0	60.7	61.8	66
120573002	FL	Hillsborough	71.5	72	58.5	58.9	58.5	58.9	66
120590004	FL	Holmes	62.3	63	47.8	48.3	47.8	48.3	60
120619991	FL	Indian River	65.0	65	53.3	53.3	54.1	54.1	61
120690002	FL	Lake	65.7	66	53.5	53.7	54.1	54.3	63
120712002	FL	Lee	63.7	64	53.4	53.7	53.6	53.8	60
120713002	FL	Lee	61.3	62	50.7	51.3	51.7	52.3	59
120730012	FL	Leon	64.3	66	49.3	50.6	49.3	50.6	60
120730013	FL	Leon	64.0	65	49.2	50.0	49.2	50.0	N/A
120813002	FL	Manatee	64.0	65	53.3	54.2	53.0	53.8	59
120814012	FL	Manatee	67.0	67	55.4	55.4	55.5	55.5	N/A
120830003	FL	Marion	65.0	66	52.7	53.5	52.7	53.5	61
120830004	FL	Marion	62.0	63	49.6	50.4	49.6	50.4	58
120860027	FL	Miami-Dade	64.0	65	58.5	59.4	60.3	61.2	62
120860029	FL	Miami-Dade	63.3	64	56.4	57.0	57.7	58.4	61
120910002	FL	Okaloosa	66.0	67	51.2	52.0	51.3	52.1	62
120950008	FL	Orange	71.0	72	58.0	58.8	58.0	58.8	62
120952002	FL	Orange	71.7	73	60.0	61.1	60.0	61.1	62
120972002	FL	Osceola	66.0	66	53.2	53.2	53.2	53.2	63
120990009	FL	Palm Beach	62.7	63	54.1	54.4	54.1	54.4	N/A
120990020	FL	Palm Beach	61.7	62	54.0	54.2	54.3	54.5	N/A
121010005	FL	Pasco	66.7	67	53.9	54.1	53.9	54.1	61
121012001	FL	Pasco	65.3	67	55.6	57.1	55.7	57.1	62
121030004	FL	Pinellas	66.7	67	57.1	57.3	57.1	57.3	61
121030018	FL	Pinellas	65.3	66	57.8	58.4	56.9	57.5	61
121035002	FL	Pinellas	64.3	65	54.9	55.5	54.8	55.4	59
121056005	FL	Polk	67.3	68	55.1	55.7	55.1	55.7	63
121056006	FL	Polk	68.3	69	56.0	56.6	56.0	56.6	62
121130015	FL	Santa Rosa	71.7	74	55.4	57.2	55.3	57.1	64
121151005	FL	Sarasota	71.3	72	58.7	59.3	58.7	59.2	62
121151006	FL	Sarasota	67.7	68	55.2	55.4	55.2	55.5	62
121152002	FL	Sarasota	66.0	67	54.5	55.3	54.6	55.5	61
121171002	FL	Seminole	67.3	69	55.1	56.5	55.1	56.5	61

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
121272001	FL	Volusia	59.7	60	46.6	46.9	48.3	48.6	59
121275002	FL	Volusia	63.3	64	50.4	51.0	51.6	52.1	59
121290001	FL	Wakulla	63.7	65	50.8	51.8	50.0	51.0	N/A
130210012	GA	Bibb	72.3	73	51.3	51.8	51.3	51.8	65
130510021	GA	Chatham	63.3	64	49.7	50.3	49.7	50.3	57
130550001	GA	Chattooga	66.3	67	50.1	50.7	50.1	50.7	62
130590002	GA	Clarke	70.7	73	50.6	52.3	50.6	52.3	64
130670003	GA	Cobb	76.0	78	55.4	56.9	55.4	56.9	N/A
130730001	GA	Columbia	68.7	70	50.6	51.5	50.6	51.5	61
130770002	GA	Coweta	65.0	67	46.4	47.8	46.4	47.8	66
130850001	GA	Dawson	66.3	68	47.7	48.9	47.7	48.9	65
130890002	GA	DeKalb	77.3	80	56.1	58.1	56.1	58.1	71
130970004	GA	Douglas	73.3	75	52.9	54.2	52.9	54.2	68
131210055	GA	Fulton	81.0	83	59.2	60.6	59.2	60.6	75
131270006	GA	Glynn	60.0	61	47.4	48.2	47.6	48.4	56
131350002	GA	Gwinnett	76.7	78	54.5	55.4	54.5	55.4	72
131510002	GA	Henry	80.0	82	57.7	59.2	57.7	59.2	74
132130003	GA	Murray	70.3	72	51.2	52.5	51.2	52.5	65
132150008	GA	Muscogee	66.0	67	50.2	50.9	50.2	50.9	62
132230003	GA	Paulding	70.7	72	54.3	55.3	54.3	55.3	63
132450091	GA	Richmond	70.0	72	51.9	53.4	51.9	53.4	62
132470001	GA	Rockdale	77.0	79	54.4	55.8	54.4	55.8	74
132611001	GA	Sumter	64.7	66	50.4	51.4	50.4	51.4	60
160010017	ID	Ada	67.5	68	59.4	59.8	59.4	59.8	67
160010019	ID	Ada	62.0	62	54.2	54.2	54.2	54.2	N/A
160230101	ID	Butte	62.3	63	59.6	60.2	59.6	60.2	60
160550003	ID	Kootenai	56.0	56	47.9	47.9	47.9	47.9	N/A
170010007	IL	Adams	67.0	69	54.5	56.2	54.5	56.2	62
170190007	IL	Champaign	71.0	71	57.7	57.7	57.7	57.7	63
170230001	IL	Clark	66.0	66	53.8	53.8	53.8	53.8	64
170310001	IL	Cook	72.0	74	63.2	64.9	63.2	64.9	69
170310032	IL	Cook	77.7	81	58.8	61.3	66.6	69.5	70
170310064	IL	Cook	71.3	75	53.9	56.7	61.1	64.3	N/A
170310076	IL	Cook	71.7	74	62.7	64.7	62.7	64.7	69
170311003	IL	Cook	69.7	72	53.3	55.1	62.4	64.4	69
170311601	IL	Cook	71.3	74	61.5	63.9	61.5	63.9	69
170314002	IL	Cook	71.7	74	55.8	57.6	62.3	64.3	66
170314007	IL	Cook	65.7	68	49.2	50.9	58.0	60.0	71
170314201	IL	Cook	75.7	78	56.7	58.4	66.8	68.8	71

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
170317002	IL	Cook	76.0	80	55.7	58.6	66.8	70.3	72
170436001	IL	DuPage	66.3	68	57.9	59.4	57.9	59.4	68
170491001	IL	Effingham	68.3	70	55.5	56.9	55.5	56.9	64
170650002	IL	Hamilton	74.3	78	60.7	63.8	60.7	63.8	65
170831001	IL	Jersey	76.0	79	58.4	60.7	58.4	60.7	68
170859991	IL	Jo Daviess	68.0	68	56.4	56.4	56.4	56.4	65
170890005	IL	Kane	69.7	71	62.8	63.9	62.8	63.9	68
170971007	IL	Lake	79.3	82	57.5	59.5	63.4	65.6	73
171110001	IL	McHenry	69.7	71	61.8	62.9	61.8	62.9	68
171132003	IL	McLean	70.3	72	56.0	57.4	56.0	57.4	64
171150013	IL	Macon	71.3	73	58.0	59.4	58.0	59.4	66
171170002	IL	Macoupin	71.3	73	53.8	55.1	53.8	55.1	64
171190008	IL	Madison	77.0	80	59.5	61.8	59.5	61.8	71
171191009	IL	Madison	78.3	80	59.9	61.2	59.9	61.2	67
171193007	IL	Madison	76.7	79	59.3	61.0	59.3	61.0	71
171199991	IL	Madison	76.0	76	56.7	56.7	56.7	56.7	67
171430024	IL	Peoria	61.7	63	51.3	52.4	51.3	52.4	64
171431001	IL	Peoria	70.7	72	58.8	59.8	58.8	59.8	N/A
171570001	IL	Randolph	67.7	70	54.7	56.6	54.7	56.6	67
171613002	IL	Rock Island	58.3	60	49.2	50.6	49.2	50.6	62
171630010	IL	Saint Clair	74.7	77	56.9	58.7	56.9	58.7	68
171670014	IL	Sangamon	72.0	72	56.8	56.8	56.8	56.8	63
171971011	IL	Will	64.0	65	55.6	56.5	55.6	56.5	64
172012001	IL	Winnebago	67.3	68	57.5	58.0	57.5	58.0	68
180030002	IN	Allen	68.3	70	55.2	56.6	55.2	56.6	63
180030004	IN	Allen	69.3	71	56.1	57.4	56.1	57.4	63
180110001	IN	Boone	72.3	74	59.4	60.8	59.4	60.8	66
180150002	IN	Carroll	69.0	71	56.8	58.5	56.8	58.5	64
180190008	IN	Clark	78.0	81	62.1	64.5	62.1	64.5	70
180350010	IN	Delaware	68.7	70	54.4	55.5	54.4	55.5	59
180390007	IN	Elkhart	67.7	70	54.6	56.5	54.6	56.5	61
180431004	IN	Floyd	76.0	79	61.7	64.1	61.7	64.1	69
180550001	IN	Greene	77.0	78	63.5	64.3	63.5	64.3	66
180570006	IN	Hamilton	71.0	72	57.2	58.0	57.2	58.0	63
180590003	IN	Hancock	66.7	69	53.4	55.2	53.4	55.2	N/A
180630004	IN	Hendricks	67.0	68	55.5	56.3	55.5	56.3	60
180690002	IN	Huntington	65.0	66	53.0	53.8	53.0	53.8	58
180710001	IN	Jackson	66.0	67	53.0	53.8	53.0	53.8	66
180810002	IN	Johnson	69.0	70	56.0	56.8	56.0	56.8	60

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
180839991	IN	Knox	73.0	73	59.2	59.2	59.2	59.2	65
180890022	IN	Lake	66.7	69	55.2	57.1	58.3	60.3	67
180890030	IN	Lake	69.7	73	58.9	61.7	61.9	64.8	N/A
180892008	IN	Lake	68.0	68	57.5	57.5	60.4	60.4	65
180910005	IN	LaPorte	79.3	83	65.4	68.5	67.2	70.4	N/A
180910010	IN	LaPorte	69.7	72	59.2	61.2	58.9	60.9	63
180950010	IN	Madison	68.3	70	54.2	55.5	54.2	55.5	57
180970050	IN	Marion	72.7	74	59.1	60.2	59.1	60.2	69
180970057	IN	Marion	69.0	71	57.8	59.4	57.8	59.4	65
180970073	IN	Marion	72.0	74	59.1	60.7	59.1	60.7	65
180970078	IN	Marion	69.7	72	58.3	60.3	58.3	60.3	N/A
181090005	IN	Morgan	69.0	70	55.1	55.9	55.1	55.9	64
181230009	IN	Perry	72.7	75	53.6	55.3	53.6	55.3	67
181270024	IN	Porter	70.3	72	57.6	59.0	61.8	63.3	69
181270026	IN	Porter	63.0	64	54.4	55.3	54.4	55.3	66
181290003	IN	Posey	70.3	71	56.5	57.0	56.5	57.0	66
181410010	IN	St. Joseph	62.7	64	51.2	52.3	51.2	52.3	62
181410015	IN	St. Joseph	69.3	73	56.9	59.9	56.9	59.9	68
181411007	IN	St. Joseph	64.0	64	52.5	52.5	52.5	52.5	N/A
181450001	IN	Shelby	74.0	75	60.6	61.4	60.6	61.4	62
181630013	IN	Vanderburgh	71.7	73	56.2	57.3	56.2	57.3	69
181630021	IN	Vanderburgh	74.0	74	58.6	58.6	58.6	58.6	70
181670018	IN	Vigo	65.7	68	52.5	54.3	52.5	54.3	65
181670024	IN	Vigo	64.0	64	51.3	51.3	51.3	51.3	61
181730008	IN	Warrick	71.0	73	54.9	56.5	54.9	56.5	68
181730009	IN	Warrick	69.7	72	55.0	56.8	55.0	56.8	66
181730011	IN	Warrick	71.0	74	54.2	56.5	54.2	56.5	67
190170011	IA	Bremer	64.0	65	50.9	51.7	50.9	51.7	60
190450021	IA	Clinton	66.7	68	55.9	57.0	55.9	57.0	63
190850007	IA	Harrison	66.7	68	53.9	54.9	53.9	54.9	62
190851101	IA	Harrison	67.7	69	54.7	55.7	54.7	55.7	62
191130028	IA	Linn	64.3	66	54.1	55.5	54.1	55.5	61
191130033	IA	Linn	64.0	65	51.9	52.7	51.9	52.7	61
191130040	IA	Linn	62.7	64	52.8	53.9	52.8	53.9	61
191370002	IA	Montgomery	65.3	67	54.1	55.5	54.1	55.5	60
191471002	IA	Palo Alto	66.7	68	55.2	56.3	55.2	56.3	61
191530030	IA	Polk	59.7	61	48.1	49.2	48.1	49.2	60
191630014	IA	Scott	63.0	63	52.4	52.4	52.4	52.4	63
191630015	IA	Scott	66.0	67	55.7	56.5	55.7	56.5	60

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
191690011	IA	Story	61.3	62	49.1	49.7	49.1	49.7	60
191770006	IA	Van Buren	65.7	68	53.0	54.9	53.0	54.9	60
191810022	IA	Warren	63.7	65	51.8	52.9	51.8	52.9	58
200910010	KS	Johnson	72.7	76	59.0	61.7	59.0	61.7	60
201030003	KS	Leavenworth	72.0	74	56.3	57.8	56.3	57.8	63
201070002	KS	Linn	70.0	72	55.4	57.0	55.4	57.0	N/A
201730010	KS	Sedgwick	76.3	78	61.9	63.2	61.9	63.2	65
201730018	KS	Sedgwick	75.7	77	61.6	62.6	61.6	62.6	65
201770013	KS	Shawnee	71.7	74	56.0	57.8	56.0	57.8	63
201910002	KS	Sumner	76.3	78	63.0	64.4	63.0	64.4	64
201950001	KS	Trego	72.3	74	64.3	65.9	64.3	65.9	63
202090021	KS	Wyandotte	65.7	70	52.8	56.3	52.8	56.3	63
210130002	KY	Bell	63.3	65	49.3	50.6	49.3	50.6	61
210150003	KY	Boone	68.0	70	53.5	55.1	53.5	55.1	63
210190017	KY	Boyd	70.0	72	57.7	59.3	57.7	59.3	66
210290006	KY	Bullitt	72.3	75	58.0	60.1	58.0	60.1	66
210373002	KY	Campbell	76.7	79	61.3	63.1	61.3	63.1	70
210430500	KY	Carter	67.0	69	53.6	55.2	53.6	55.2	61
210470006	KY	Christian	70.7	73	55.6	57.4	55.6	57.4	62
210590005	KY	Daviess	76.3	79	57.1	59.1	57.1	59.1	65
210610501	KY	Edmonson	72.0	75	56.3	58.6	56.3	58.6	64
210670012	KY	Fayette	71.3	74	57.0	59.1	57.0	59.1	67
210890007	KY	Greenup	69.7	72	57.4	59.2	57.4	59.2	63
210910012	KY	Hancock	73.7	76	54.1	55.8	54.1	55.8	68
210930006	KY	Hardin	70.3	73	54.2	56.3	54.2	56.3	65
211010014	KY	Henderson	76.3	79	59.7	61.8	59.7	61.8	69
211110027	KY	Jefferson	77.0	80	62.5	64.9	62.5	64.9	69
211110051	KY	Jefferson	78.5	79	64.4	64.8	64.4	64.8	69
211110067	KY	Jefferson	85.0	85	70.1	70.1	70.1	70.1	74
211130001	KY	Jessamine	70.0	72	55.3	56.9	55.3	56.9	65
211390003	KY	Livingston	72.3	75	57.1	59.2	57.1	59.2	65
211451024	KY	McCracken	73.7	77	59.3	62.0	59.3	62.0	63
211850004	KY	Oldham	82.0	86	63.5	66.6	63.5	66.6	70
211930003	KY	Perry	65.3	68	54.3	56.5	54.3	56.5	58
211950002	KY	Pike	65.7	68	53.1	55.0	53.1	55.0	60
211990003	KY	Pulaski	66.7	69	51.1	52.9	51.1	52.9	62
212130004	KY	Simpson	69.3	71	52.9	54.2	52.9	54.2	64
212218001	KY	Trigg	69.0	69	54.8	54.8	54.8	54.8	N/A
212270008	KY	Warren	64.0	64	49.5	49.5	49.5	49.5	N/A

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
212299991	KY	Washington	69.0	69	54.4	54.4	54.4	54.4	64
220050004	LA	Ascension	74.7	77	63.5	65.4	63.5	65.4	71
220150008	LA	Bossier	77.3	80	63.4	65.6	63.4	65.6	65
220170001	LA	Caddo	74.7	76	61.0	62.0	61.0	62.0	64
220190002	LA	Calcasieu	72.7	75	66.5	68.6	66.5	68.6	68
220190008	LA	Calcasieu	67.7	69	61.7	62.8	61.7	62.8	N/A
220190009	LA	Calcasieu	72.0	74	63.6	65.4	63.6	65.4	64
220330003	LA	E. Baton Rouge	78.7	82	67.8	70.6	67.8	70.6	72
220330009	LA	E. Baton Rouge	75.0	77	64.1	65.8	64.1	65.8	66
220330013	LA	E. Baton Rouge	71.0	72	60.5	61.4	60.5	61.4	N/A
220470009	LA	Iberville	73.3	75	63.5	65.0	63.5	65.0	N/A
220470012	LA	Iberville	76.0	77	65.7	66.6	65.7	66.6	N/A
220511001	LA	Jefferson	73.7	76	66.0	68.0	66.6	68.6	68
220550007	LA	Lafayette	71.0	72	59.8	60.7	59.8	60.7	66
220570004	LA	Lafourche	72.3	74	64.1	65.6	64.1	65.6	65
220630002	LA	Livingston	74.0	76	63.3	65.0	63.3	65.0	70
220710012	LA	Orleans	69.3	70	62.1	62.7	62.2	62.8	N/A
220730004	LA	Ouachita	63.3	66	52.8	55.1	52.8	55.1	N/A
220770001	LA	Pointe Coupee	75.3	77	63.3	64.7	63.3	64.7	68
220870004	LA	St. Bernard	69.0	69	61.8	61.8	61.9	61.9	66
220890003	LA	St. Charles	70.0	72	62.7	64.5	63.0	64.8	N/A
220930002	LA	St. James	68.0	69	60.0	60.9	60.0	60.9	65
220950002	LA	St. John the Baptist	74.0	75	66.3	67.2	66.3	67.2	66
221030002	LA	St. Tammany	73.3	74	64.1	64.7	64.0	64.6	68
221210001	LA	West Baton Rouge	70.3	72	60.0	61.5	60.0	61.5	66
230010014	ME	Androscoggin	61.0	62	49.4	50.2	49.3	50.1	60
230052003	ME	Cumberland	69.3	70	56.2	56.8	56.7	57.3	65
230090102	ME	Hancock	71.7	74	61.3	63.2	59.9	61.8	66
230090103	ME	Hancock	66.3	69	55.0	57.3	55.3	57.5	62
230112005	ME	Kennebec	62.7	64	50.5	51.5	50.5	51.5	59
230130004	ME	Knox	67.7	69	54.7	55.7	54.8	55.8	63
230173001	ME	Oxford	54.3	55	43.7	44.3	43.7	44.3	N/A
230194008	ME	Penobscot	57.7	59	46.6	47.6	46.6	47.6	58
230230006	ME	Sagadahoc	61.0	61	48.7	48.7	48.7	48.7	N/A
230310038	ME	York	60.3	62	48.2	49.6	48.2	49.6	58
230310040	ME	York	64.3	65	51.5	52.0	51.5	52.0	61
230312002	ME	York	73.7	75	60.1	61.2	59.6	60.7	67

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240030014	MD	Anne Arundel	83.0	87	63.4	66.4	63.4	66.4	N/A
240051007	MD	Baltimore	79.0	82	63.9	66.3	63.9	66.3	72
240053001	MD	Baltimore	80.7	84	64.9	67.6	65.3	67.9	72
240090011	MD	Calvert	79.7	83	64.2	66.9	63.2	65.9	69
240130001	MD	Carroll	76.3	79	58.8	60.9	58.8	60.9	68
240150003	MD	Cecil	83.0	86	64.5	66.8	64.5	66.8	76
240170010	MD	Charles	79.0	83	61.6	64.7	61.6	64.7	70
240199991	MD	Dorchester	75.0	75	60.7	60.7	59.4	59.4	66
240210037	MD	Frederick	76.3	79	59.6	61.8	59.6	61.8	67
240230002	MD	Garrett	72.0	75	55.1	57.4	55.1	57.4	65
240251001	MD	Harford	90.0	93	71.4	73.8	70.9	73.3	73
240259001	MD	Harford	79.3	82	61.8	63.9	62.2	64.3	73
240290002	MD	Kent	78.7	82	61.2	63.7	61.2	63.7	70
240313001	MD	Montgomery	75.7	77	60.0	61.0	60.0	61.0	68
240330030	MD	Prince George's	79.0	82	60.5	62.8	60.5	62.8	69
240338003	MD	Prince George's	82.3	87	63.2	66.8	63.2	66.8	71
240339991	MD	Prince George's	80.0	80	61.0	61.0	61.0	61.0	68
240430009	MD	Washington	72.7	75	56.0	57.8	56.0	57.8	66
245100054	MD	Baltimore (City)	73.7	75	59.9	61.0	59.4	60.4	69
250010002	MA	Barnstable	73.0	75	59.6	61.3	60.5	62.2	N/A
250034002	MA	Berkshire	69.0	71	56.1	57.7	56.1	57.7	N/A
250051002	MA	Bristol	74.0	74	61.6	61.6	61.2	61.2	N/A
250070001	MA	Dukes	77.0	80	64.1	66.6	64.1	66.6	N/A
250092006	MA	Essex	71.0	71	57.5	57.5	58.4	58.4	65
250094005	MA	Essex	70.0	70	57.2	57.2	57.2	57.2	64
250095005	MA	Essex	69.3	70	56.2	56.8	56.2	56.8	62
250130008	MA	Hampden	73.7	74	59.3	59.5	59.3	59.5	70
250150103	MA	Hampshire	64.7	66	51.9	53.0	51.9	53.0	N/A
250154002	MA	Hampshire	71.3	72	57.0	57.5	57.0	57.5	70
250170009	MA	Middlesex	67.3	68	54.0	54.5	54.0	54.5	63
250171102	MA	Middlesex	67.0	67	53.4	53.4	53.4	53.4	N/A
250213003	MA	Norfolk	72.3	73	59.6	60.2	59.6	60.2	67
250250041	MA	Suffolk	68.3	70	56.4	57.8	55.5	56.9	N/A
250250042	MA	Suffolk	60.7	61	49.6	49.9	50.1	50.4	56
250270015	MA	Worcester	68.3	70	54.6	55.9	54.6	55.9	64
250270024	MA	Worcester	69.0	70	54.9	55.7	54.9	55.7	64
260050003	MI	Allegan	82.7	86	69.0	71.8	69.0	71.7	75
260190003	MI	Benzie	73.0	75	60.9	62.6	60.6	62.3	69
260210014	MI	Berrien	79.7	82	67.4	69.3	66.9	68.8	74

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260270003	MI	Cass	76.7	78	62.0	63.1	62.0	63.1	70
260370001	MI	Clinton	69.3	71	56.2	57.6	56.2	57.6	67
260490021	MI	Genesee	73.0	76	60.1	62.5	60.1	62.5	68
260492001	MI	Genesee	72.3	74	58.8	60.2	58.8	60.2	69
260630007	MI	Huron	71.3	74	59.5	61.7	59.0	61.2	68
260650012	MI	Ingham	70.3	72	56.8	58.2	56.8	58.2	67
260770008	MI	Kalamazoo	73.7	75	59.9	60.9	59.9	60.9	69
260810020	MI	Kent	73.0	75	59.8	61.4	59.8	61.4	69
260810022	MI	Kent	72.7	74	58.3	59.3	58.3	59.3	67
260910007	MI	Lenawee	75.5	76	60.6	61.0	60.6	61.0	67
260990009	MI	Macomb	76.7	78	65.1	66.2	64.5	65.6	72
260991003	MI	Macomb	77.3	79	66.7	68.1	66.7	68.1	67
261010922	MI	Manistee	72.3	74	60.2	61.6	60.5	61.9	68
261050007	MI	Mason	73.3	75	60.7	62.1	60.7	62.1	70
261130001	MI	Missaukee	68.3	70	56.9	58.3	56.9	58.3	67
261210039	MI	Muskegon	79.7	82	65.6	67.5	65.8	67.7	75
261250001	MI	Oakland	76.3	78	64.1	65.6	64.1	65.6	69
261390005	MI	Ottawa	76.0	78	62.3	64.0	62.3	64.0	70
261470005	MI	St. Clair	75.3	77	63.7	65.1	62.5	63.9	73
261530001	MI	Schoolcraft	71.7	75	59.4	62.1	59.4	62.1	70
261610008	MI	Washtenaw	73.3	76	60.7	62.9	60.7	62.9	67
261630001	MI	Wayne	71.7	74	60.5	62.4	60.5	62.4	65
261630019	MI	Wayne	78.7	81	69.0	71.0	69.0	71.0	72
270031001	MN	Anoka	67.0	67	55.1	55.1	55.1	55.1	60
270031002	MN	Anoka	66.3	67	57.3	57.9	57.3	57.9	63
270353204	MN	Crow Wing	62.0	62	50.7	50.7	50.7	50.7	59
270495302	MN	Goodhue	62.5	63	52.2	52.6	52.2	52.6	61
270834210	MN	Lyon	64.5	65	54.1	54.5	54.1	54.5	62
270953051	MN	Mille Lacs	59.7	60	48.6	48.8	48.9	49.2	60
271095008	MN	Olmsted	63.5	64	52.3	52.7	52.3	52.7	61
271377550	MN	Saint Louis	49.7	50	42.0	42.2	42.2	42.5	53
271390505	MN	Scott	63.5	65	54.3	55.5	54.3	55.5	60
271453052	MN	Stearns	61.5	62	52.7	53.1	52.7	53.1	60
271713201	MN	Wright	63.5	64	54.6	55.0	54.6	55.0	61
280110001	MS	Bolivar	71.7	74	60.9	62.9	60.9	62.9	62
280330002	MS	DeSoto	72.3	74	55.4	56.7	55.4	56.7	64
280450003	MS	Hancock	66.3	67	53.4	53.9	53.9	54.4	63
280470008	MS	Harrison	72.3	75	55.9	58.0	57.7	59.9	67
280490010	MS	Hinds	67.0	68	50.0	50.7	50.0	50.7	N/A

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280590006	MS	Jackson	71.7	73	56.9	58.0	57.1	58.2	67
280750003	MS	Lauderdale	62.7	63	50.0	50.2	50.0	50.2	57
280810005	MS	Lee	65.0	66	49.7	50.5	49.7	50.5	59
281619991	MS	Yalobusha	63.0	63	51.4	51.4	51.4	51.4	57
290030001	MO	Andrew	73.3	75	58.3	59.6	58.3	59.6	63
290190011	MO	Boone	69.0	72	54.0	56.3	54.0	56.3	64
290270002	MO	Callaway	67.7	70	53.5	55.3	53.5	55.3	64
290370003	MO	Cass	70.0	72	56.3	57.9	56.3	57.9	63
290390001	MO	Cedar	71.7	74	58.0	59.9	58.0	59.9	61
290470003	MO	Clay	77.0	79	61.9	63.5	61.9	63.5	65
290470005	MO	Clay	75.3	77	59.8	61.1	59.8	61.1	64
290470006	MO	Clay	77.7	80	61.7	63.5	61.7	63.5	67
290490001	MO	Clinton	78.0	80	61.3	62.9	61.3	62.9	67
290770036	MO	Greene	69.3	71	54.5	55.8	54.5	55.8	59
290770042	MO	Greene	71.7	74	56.4	58.2	56.4	58.2	60
290970004	MO	Jasper	76.7	78	60.2	61.2	60.2	61.2	61
290990019	MO	Jefferson	76.3	79	58.7	60.8	58.7	60.8	70
291130003	MO	Lincoln	77.0	80	59.6	62.0	59.6	62.0	65
291370001	MO	Monroe	68.7	71	55.8	57.7	55.8	57.7	59
291570001	MO	Perry	74.3	77	59.7	61.9	59.7	61.9	67
291831002	MO	Saint Charles	82.3	86	63.2	66.1	63.2	66.1	72
291831004	MO	Saint Charles	77.7	80	61.9	63.8	61.9	63.8	71
291860005	MO	Sainte Genevieve	72.3	75	57.4	59.5	57.4	59.5	66
291890005	MO	Saint Louis	72.0	74	54.4	55.9	54.4	55.9	65
291890014	MO	Saint Louis	79.0	82	60.5	62.8	60.5	62.8	71
292130004	MO	Taney	69.0	70	55.3	56.1	55.3	56.1	57
295100085	MO	St. Louis City	75.7	79	58.7	61.2	58.7	61.2	65
300870001	MT	Rosebud	55.5	56	51.6	52.1	51.6	52.1	56
310550019	NE	Douglas	67.0	67	56.2	56.2	56.2	56.2	62
310550028	NE	Douglas	58.7	60	49.3	50.3	49.3	50.3	59
310550035	NE	Douglas	64.0	66	53.1	54.7	53.1	54.7	N/A
311090016	NE	Lancaster	53.3	55	43.4	44.7	43.4	44.7	60
320010002	NV	Churchill	56.7	58	51.9	53.1	51.9	53.1	67
320030043	NV	Clark	74.7	76	67.7	68.8	67.7	68.8	73
320030071	NV	Clark	75.3	76	68.7	69.4	68.7	69.4	71
320030073	NV	Clark	74.7	76	68.2	69.4	68.2	69.4	73
320030075	NV	Clark	76.0	77	67.4	68.3	67.4	68.3	75
320030538	NV	Clark	71.0	72	62.9	63.8	62.9	63.8	N/A

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
320030540	NV	Clark	71.0	71	62.9	62.9	62.9	62.9	70
320030601	NV	Clark	72.0	72	65.7	65.7	65.7	65.7	67
320031019	NV	Clark	74.3	75	66.8	67.4	66.8	67.4	70
320032002	NV	Clark	71.7	73	63.4	64.5	63.4	64.5	73
320190006	NV	Lyon	68.5	69	62.1	62.5	62.1	62.5	69
320310016	NV	Washoe	66.0	67	59.2	60.1	59.2	60.1	70
320310020	NV	Washoe	67.0	68	60.1	61.0	60.1	61.0	68
320310025	NV	Washoe	66.3	67	60.0	60.6	60.0	60.6	67
320311005	NV	Washoe	67.3	68	59.9	60.5	59.9	60.5	69
320312002	NV	Washoe	61.7	62	54.3	54.5	55.2	55.5	62
320312009	NV	Washoe	67.0	68	60.1	61.0	60.1	61.0	69
320330101	NV	White Pine	72.0	74	65.8	67.7	65.8	67.7	64
325100002	NV	Carson City	66.0	66	60.2	60.2	60.2	60.2	N/A
330012004	NH	Belknap	62.3	63	50.4	51.0	50.0	50.6	58
330050007	NH	Cheshire	62.3	63	49.7	50.2	49.7	50.2	61
330074001	NH	Coos	69.3	70	57.1	57.7	57.1	57.7	67
330074002	NH	Coos	59.7	61	49.3	50.4	49.3	50.4	57
330090010	NH	Grafton	59.7	60	48.1	48.4	48.1	48.4	57
330111011	NH	Hillsborough	66.3	67	53.6	54.2	53.6	54.2	63
330115001	NH	Hillsborough	69.0	70	55.5	56.3	55.5	56.3	68
330131007	NH	Merrimack	64.7	65	51.6	51.8	51.6	51.8	61
330150014	NH	Rockingham	66.0	66	53.6	53.6	53.4	53.4	65
330150016	NH	Rockingham	66.3	67	53.8	54.4	53.6	54.2	67
330150018	NH	Rockingham	68.0	68	55.1	55.1	55.1	55.1	65
340010006	NJ	Atlantic	74.3	76	58.5	59.9	58.6	60.0	64
340030006	NJ	Bergen	77.0	78	64.1	65.0	64.1	65.0	74
340071001	NJ	Camden	82.7	87	66.3	69.8	66.3	69.8	69
340110007	NJ	Cumberland	72.0	75	57.0	59.4	57.0	59.4	68
340130003	NJ	Essex	78.0	82	64.3	67.6	64.3	67.6	70
340150002	NJ	Gloucester	84.3	87	68.2	70.4	68.2	70.4	74
340170006	NJ	Hudson	77.0	78	65.4	66.3	64.6	65.4	72
340190001	NJ	Hunterdon	78.0	80	62.0	63.6	62.0	63.6	72
340210005	NJ	Mercer	78.3	81	63.2	65.4	63.2	65.4	72
340219991	NJ	Mercer	76.0	76	60.4	60.4	60.4	60.4	73
340230011	NJ	Middlesex	81.3	85	65.0	68.0	65.0	68.0	74
340250005	NJ	Monmouth	80.0	83	65.4	67.8	64.1	66.5	70
340273001	NJ	Morris	76.3	78	62.4	63.8	62.4	63.8	69
340290006	NJ	Ocean	82.0	85	65.8	68.2	65.8	68.2	73
340315001	NJ	Passaic	73.3	75	61.3	62.7	61.3	62.7	70

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
340410007	NJ	Warren	66.0	66	54.0	54.0	54.0	54.0	64
350010023	NM	Bernalillo	68.0	70	59.0	60.7	59.0	60.7	65
350010024	NM	Bernalillo	69.3	70	60.1	60.7	60.1	60.7	N/A
350010027	NM	Bernalillo	70.0	71	63.4	64.3	63.4	64.3	N/A
350010029	NM	Bernalillo	68.7	70	59.2	60.3	59.2	60.3	65
350010032	NM	Bernalillo	70.0	70	60.6	60.6	60.6	60.6	N/A
350011012	NM	Bernalillo	72.0	74	64.2	66.0	64.2	66.0	64
350011013	NM	Bernalillo	68.7	69	61.1	61.3	61.1	61.3	N/A
350130008	NM	Dona Ana	64.7	67	60.8	63.0	60.8	63.0	66
350130017	NM	Dona Ana	66.7	68	63.1	64.3	63.1	64.3	N/A
350130020	NM	Dona Ana	67.7	69	62.8	64.0	62.8	64.0	66
350130021	NM	Dona Ana	71.0	72	67.1	68.1	67.1	68.1	72
350130022	NM	Dona Ana	70.3	75	66.3	70.8	66.3	70.8	68
350130023	NM	Dona Ana	64.3	65	58.7	59.3	58.7	59.3	65
350151005	NM	Eddy	70.3	71	67.7	68.4	67.7	68.4	67
350171003	NM	Grant	65.0	67	61.9	63.8	61.9	63.8	N/A
350250008	NM	Lea	62.7	66	59.9	63.0	59.9	63.0	66
350290003	NM	Luna	63.0	67	58.2	61.9	58.2	61.9	N/A
350431001	NM	Sandoval	61.7	63	55.4	56.5	55.4	56.5	64
350439004	NM	Sandoval	63.0	63	58.8	58.8	58.8	58.8	N/A
350450009	NM	San Juan	65.3	68	56.7	59.0	56.7	59.0	62
350450018	NM	San Juan	71.0	71	62.0	62.0	62.0	62.0	66
350451005	NM	San Juan	66.0	68	55.3	57.0	55.3	57.0	62
350490021	NM	Santa Fe	64.3	66	60.5	62.1	60.5	62.1	63
350610008	NM	Valencia	68.5	70	60.1	61.4	60.1	61.4	64
360010012	NY	Albany	68.0	70	55.4	57.0	55.4	57.0	64
360050133	NY	Bronx	74.0	76	68.0	69.9	63.3	65.0	70
360130006	NY	Chautauqua	73.3	76	59.6	61.7	58.5	60.7	68
360130011	NY	Chautauqua	74.0	76	60.2	61.8	59.4	61.0	N/A
360150003	NY	Chemung	66.5	67	54.9	55.3	54.9	55.3	N/A
360270007	NY	Dutchess	72.0	74	58.6	60.2	58.6	60.2	68
360290002	NY	Erie	71.3	73	58.3	59.7	58.2	59.6	69
360310002	NY	Essex	70.3	73	57.5	59.8	57.5	59.8	62
360310003	NY	Essex	67.3	69	55.1	56.5	55.1	56.5	65
360410005	NY	Hamilton	66.0	67	53.7	54.5	53.7	54.5	60
360430005	NY	Herkimer	62.0	63	50.5	51.3	50.5	51.3	63
360450002	NY	Jefferson	71.7	74	59.0	60.9	59.4	61.3	63
360530006	NY	Madison	67.0	67	55.0	55.0	55.0	55.0	N/A
360610135	NY	New York	73.3	76	65.3	67.8	64.2	66.5	69

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
360631006	NY	Niagara	72.3	75	60.5	62.8	59.5	61.7	66
360650004	NY	Oneida	61.5	64	50.5	52.5	50.5	52.5	N/A
360671015	NY	Onondaga	69.3	72	57.8	60.1	57.8	60.1	64
360715001	NY	Orange	67.0	69	55.3	56.9	55.3	56.9	66
360750003	NY	Oswego	68.0	70	55.7	57.4	55.6	57.2	60
360790005	NY	Putnam	70.0	71	58.4	59.2	58.4	59.2	68
360810124	NY	Queens	78.0	80	70.1	71.9	70.2	72.0	69
360830004	NY	Rensselaer	67.0	67	54.4	54.4	54.4	54.4	N/A
360850067	NY	Richmond	81.3	83	71.9	73.4	67.1	68.5	76
360870005	NY	Rockland	75.0	76	62.0	62.8	62.0	62.8	72
360910004	NY	Saratoga	67.0	68	54.3	55.1	54.3	55.1	63
361010003	NY	Steuben	65.3	67	54.4	55.9	54.4	55.9	59
361030002	NY	Suffolk	83.3	85	72.5	74.0	74.0	75.5	72
361030004	NY	Suffolk	78.0	80	66.3	68.0	65.2	66.9	72
361030009	NY	Suffolk	78.7	80	68.5	69.7	67.6	68.7	N/A
361111005	NY	Ulster	69.0	69	57.4	57.4	57.4	57.4	N/A
361173001	NY	Wayne	65.0	67	53.4	55.0	53.4	55.0	64
361192004	NY	Westchester	75.3	76	68.1	68.8	63.8	64.4	74
370030004	NC	Alexander	66.7	68	51.3	52.3	51.3	52.3	N/A
370110002	NC	Avery	63.3	65	48.1	49.3	48.1	49.3	62
370119991	NC	Avery	63.0	63	48.9	48.9	48.9	48.9	64
370210030	NC	Buncombe	66.7	68	48.8	49.8	48.8	49.8	63
370270003	NC	Caldwell	66.0	67	49.6	50.3	49.6	50.3	64
370330001	NC	Caswell	70.7	73	53.9	55.7	53.9	55.7	63
370370004	NC	Chatham	64.0	66	47.4	48.9	47.4	48.9	N/A
370510008	NC	Cumberland	68.7	70	51.1	52.0	51.1	52.0	61
370511003	NC	Cumberland	70.7	72	51.5	52.4	51.5	52.4	N/A
370590003	NC	Davie	71.0	73	53.5	55.0	53.5	55.0	N/A
370630015	NC	Durham	70.0	72	49.8	51.3	49.8	51.3	62
370650099	NC	Edgecombe	70.0	71	51.3	52.0	51.3	52.0	N/A
370670022	NC	Forsyth	75.3	78	56.6	58.6	56.6	58.6	67
370670028	NC	Forsyth	69.7	72	52.0	53.7	52.0	53.7	N/A
370670030	NC	Forsyth	72.7	76	55.0	57.5	55.0	57.5	68
370671008	NC	Forsyth	72.3	75	54.5	56.5	54.5	56.5	67
370690001	NC	Franklin	69.3	71	50.2	51.5	50.2	51.5	N/A
370750001	NC	Graham	70.3	72	54.4	55.7	54.4	55.7	64
370770001	NC	Granville	70.7	72	51.2	52.1	51.2	52.1	64
370810013	NC	Guilford	74.0	76	55.0	56.5	55.0	56.5	65
370870008	NC	Haywood	61.0	61	48.6	48.6	48.6	48.6	62

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
370870036	NC	Haywood	67.7	69	53.8	54.8	53.8	54.8	65
370990005	NC	Jackson	67.0	67	53.1	53.1	53.1	53.1	N/A
371010002	NC	Johnston	71.7	74	51.5	53.2	51.5	53.2	65
371070004	NC	Lenoir	67.7	69	51.7	52.7	51.7	52.7	63
371090004	NC	Lincoln	72.7	75	55.4	57.1	55.4	57.1	67
371170001	NC	Martin	66.3	67	50.7	51.2	50.7	51.2	60
371190041	NC	Mecklenburg	80.0	83	60.8	63.1	60.8	63.1	69
371191005	NC	Mecklenburg	75.0	77	56.4	57.9	56.4	57.9	N/A
371191009	NC	Mecklenburg	79.7	83	58.2	60.6	58.2	60.6	N/A
371239991	NC	Montgomery	66.0	66	47.2	47.2	47.2	47.2	61
371290002	NC	New Hanover	63.0	64	46.0	46.8	46.9	47.6	60
371450003	NC	Person	71.0	74	57.5	59.9	57.5	59.9	63
371470006	NC	Pitt	69.7	71	52.6	53.6	52.6	53.6	62
371570099	NC	Rockingham	71.0	73	56.2	57.8	56.2	57.8	66
371590021	NC	Rowan	75.3	78	54.5	56.5	54.5	56.5	65
371590022	NC	Rowan	75.0	77	53.7	55.2	53.7	55.2	N/A
371730002	NC	Swain	60.7	62	48.7	49.7	48.7	49.7	60
371790003	NC	Union	71.0	73	50.9	52.4	50.9	52.4	68
371830014	NC	Wake	70.3	72	51.3	52.6	51.3	52.6	65
371830016	NC	Wake	73.0	75	54.2	55.7	54.2	55.7	N/A
371990004	NC	Yancey	69.7	71	53.0	54.0	53.0	54.0	65
390030009	OH	Allen	73.0	74	59.6	60.4	59.6	60.4	66
390071001	OH	Ashtabula	77.3	79	60.7	62.1	61.3	62.7	70
390090004	OH	Athens	69.0	69	55.5	55.5	55.5	55.5	N/A
390170004	OH	Butler	77.0	79	62.2	63.8	62.2	63.8	72
390170018	OH	Butler	79.7	82	63.0	64.9	63.0	64.9	71
390179991	OH	Butler	77.0	77	59.7	59.7	59.7	59.7	69
390230001	OH	Clark	75.0	76	58.6	59.4	58.6	59.4	69
390230003	OH	Clark	74.0	75	58.6	59.4	58.6	59.4	67
390250022	OH	Clermont	78.7	82	60.2	62.7	60.2	62.7	70
390271002	OH	Clinton	78.7	82	59.3	61.8	59.3	61.8	70
390350034	OH	Cuyahoga	77.7	80	57.0	58.7	62.1	63.9	69
390350060	OH	Cuyahoga	68.5	70	52.4	53.6	54.1	55.3	64
390350064	OH	Cuyahoga	70.0	73	56.1	58.5	57.4	59.9	64
390355002	OH	Cuyahoga	76.7	80	56.9	59.4	61.0	63.7	68
390410002	OH	Delaware	73.0	74	58.5	59.3	58.5	59.3	67
390479991	OH	Fayette	72.0	72	55.6	55.6	55.6	55.6	68
390490029	OH	Franklin	80.3	82	65.3	66.7	65.3	66.7	71
390490037	OH	Franklin	75.0	76	60.8	61.6	60.8	61.6	66

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
390490081	OH	Franklin	71.0	73	57.7	59.4	57.7	59.4	67
390550004	OH	Geauga	74.7	78	59.0	61.6	59.0	61.6	71
390570006	OH	Greene	73.0	74	55.4	56.2	55.4	56.2	68
390610006	OH	Hamilton	82.0	85	65.0	67.4	65.0	67.4	72
390610010	OH	Hamilton	76.3	80	60.4	63.3	60.4	63.3	72
390610040	OH	Hamilton	78.7	80	63.2	64.3	63.2	64.3	71
390810017	OH	Jefferson	70.3	72	57.9	59.3	57.9	59.3	65
390830002	OH	Knox	73.7	75	57.6	58.6	57.6	58.6	67
390850003	OH	Lake	80.0	83	58.0	60.2	63.5	65.8	75
390850007	OH	Lake	71.7	73	53.0	54.0	56.1	57.2	67
390870011	OH	Lawrence	65.0	67	51.8	53.4	51.8	53.4	64
390870012	OH	Lawrence	70.0	72	57.6	59.2	57.6	59.2	67
390890005	OH	Licking	74.3	76	57.5	58.8	57.5	58.8	67
390930018	OH	Lorain	71.7	75	54.6	57.1	58.8	61.5	66
390950024	OH	Lucas	68.0	70	53.9	55.5	55.3	57.0	67
390950027	OH	Lucas	66.7	68	55.4	56.5	55.4	56.5	64
390950034	OH	Lucas	73.7	76	58.9	60.7	60.2	62.1	N/A
390970007	OH	Madison	74.3	76	56.5	57.8	56.5	57.8	68
390990013	OH	Mahoning	70.7	73	57.0	58.8	57.0	58.8	63
391030004	OH	Medina	69.0	69	55.9	55.9	55.9	55.9	64
391090005	OH	Miami	73.3	74	57.2	57.8	57.2	57.8	67
391130037	OH	Montgomery	76.7	78	60.6	61.6	60.6	61.6	70
391331001	OH	Portage	68.3	71	54.8	57.0	54.8	57.0	61
391351001	OH	Preble	72.3	74	58.0	59.3	58.0	59.3	67
391510016	OH	Stark	76.7	79	60.9	62.7	60.9	62.7	69
391510022	OH	Stark	72.0	73	57.3	58.1	57.3	58.1	64
391514005	OH	Stark	72.3	75	57.2	59.3	57.2	59.3	66
391530020	OH	Summit	72.0	74	58.8	60.4	58.8	60.4	61
391550009	OH	Trumbull	71.0	73	56.1	57.7	56.1	57.7	N/A
391550011	OH	Trumbull	76.3	79	60.8	63.0	60.8	63.0	68
391650007	OH	Warren	77.7	79	59.5	60.5	59.5	60.5	72
391670004	OH	Washington	71.3	74	56.4	58.5	56.4	58.5	65
391730003	OH	Wood	71.3	73	58.6	60.0	58.6	60.0	63
400019009	OK	Adair	73.7	76	58.6	60.4	58.6	60.4	61
400159008	OK	Caddo	74.7	77	61.2	63.1	61.2	63.1	N/A
400170101	OK	Canadian	75.7	76	60.4	60.6	60.4	60.6	65
400219002	OK	Cherokee	73.7	76	57.9	59.7	57.9	59.7	60
400270049	OK	Cleveland	75.0	76	61.8	62.7	61.8	62.7	66
400310651	OK	Comanche	74.7	77	62.6	64.5	62.6	64.5	65

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
400370144	OK	Creek	77.0	78	58.5	59.2	58.5	59.2	64
400430860	OK	Dewey	72.3	74	63.4	64.9	63.4	64.9	65
400719010	OK	Kay	73.0	77	60.3	63.6	60.3	63.6	63
400871073	OK	McClain	74.0	75	60.2	61.0	60.2	61.0	66
400892001	OK	McCurtain	68.0	68	58.9	58.9	58.9	58.9	N/A
400979014	OK	Mayes	76.3	78	56.6	57.9	56.6	57.9	62
401090033	OK	Oklahoma	76.7	78	62.7	63.8	62.7	63.8	67
401090096	OK	Oklahoma	76.0	77	61.5	62.4	61.5	62.4	65
401091037	OK	Oklahoma	78.3	79	64.4	65.0	64.4	65.0	68
401159004	OK	Ottawa	74.0	76	57.7	59.3	57.7	59.3	54
401210415	OK	Pittsburg	73.3	75	61.8	63.3	61.8	63.3	60
401359021	OK	Sequoyah	72.0	72	58.7	58.7	58.7	58.7	60
401430137	OK	Tulsa	79.0	80	61.0	61.7	61.0	61.7	N/A
401430174	OK	Tulsa	75.3	77	59.0	60.3	59.0	60.3	N/A
401430178	OK	Tulsa	76.7	78	60.9	61.9	60.9	61.9	63
401431127	OK	Tulsa	78.3	80	62.1	63.5	62.1	63.5	N/A
410050004	OR	Clackamas	64.0	66	55.0	56.8	55.0	56.8	65
410090004	OR	Columbia	51.3	53	45.3	46.8	45.3	46.8	54
410170122	OR	Deschutes	58.5	59	52.8	53.2	52.8	53.2	N/A
410290201	OR	Jackson	61.7	63	53.5	54.7	53.5	54.7	59
410390060	OR	Lane	58.0	59	48.3	49.2	48.3	49.2	61
410391007	OR	Lane	60.0	61	49.7	50.5	49.7	50.5	61
410470004	OR	Marion	59.3	61	49.7	51.1	49.7	51.1	65
410510080	OR	Multnomah	56.7	57	51.2	51.5	51.2	51.5	55
410591003	OR	Umatilla	61.3	62	51.2	51.8	51.2	51.8	65
410671004	OR	Washington	57.7	59	50.6	51.8	50.6	51.8	59
420030008	PA	Allegheny	76.3	79	65.5	67.8	65.5	67.8	67
420030010	PA	Allegheny	73.7	75	63.3	64.4	63.3	64.4	N/A
420030067	PA	Allegheny	75.7	78	63.0	65.0	63.0	65.0	68
420031008	PA	Allegheny	80.7	82	67.1	68.2	67.1	68.2	70
420050001	PA	Armstrong	74.3	75	60.6	61.2	60.6	61.2	70
420070002	PA	Beaver	70.7	72	59.5	60.6	59.5	60.6	70
420070005	PA	Beaver	74.7	77	63.0	64.9	63.0	64.9	68
420070014	PA	Beaver	72.3	74	61.0	62.5	61.0	62.5	65
420110006	PA	Berks	71.7	75	56.2	58.8	56.2	58.8	66
420110011	PA	Berks	76.3	79	58.9	61.0	58.9	61.0	71
420130801	PA	Blair	72.7	75	60.3	62.3	60.3	62.3	63
420170012	PA	Bucks	80.3	83	64.6	66.8	64.6	66.8	77
420210011	PA	Cambria	70.3	72	58.0	59.4	58.0	59.4	63

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
420270100	PA	Centre	71.0	73	59.1	60.8	59.1	60.8	63
420279991	PA	Centre	72.0	72	59.8	59.8	59.8	59.8	65
420290100	PA	Chester	76.3	79	58.7	60.8	58.7	60.8	73
420334000	PA	Clearfield	72.3	74	60.3	61.8	60.3	61.8	64
420430401	PA	Dauphin	69.0	69	54.7	54.7	54.7	54.7	66
420431100	PA	Dauphin	74.7	77	58.3	60.1	58.3	60.1	67
420450002	PA	Delaware	75.7	78	60.3	62.1	60.3	62.1	72
420490003	PA	Erie	74.0	76	59.1	60.7	59.5	61.1	66
420550001	PA	Franklin	67.0	68	53.2	53.9	53.2	53.9	60
420590002	PA	Greene	69.0	71	56.5	58.1	56.5	58.1	67
420630004	PA	Indiana	75.7	79	62.7	65.4	62.7	65.4	70
420690101	PA	Lackawanna	71.0	72	55.8	56.6	55.8	56.6	67
420692006	PA	Lackawanna	68.7	71	54.0	55.8	54.0	55.8	N/A
420710007	PA	Lancaster	77.0	80	60.1	62.4	60.1	62.4	69
420710012	PA	Lancaster	78.0	82	60.2	63.3	60.2	63.3	66
420730015	PA	Lawrence	71.0	73	58.0	59.6	58.0	59.6	68
420750100	PA	Lebanon	76.0	76	58.6	58.6	58.6	58.6	71
420770004	PA	Lehigh	76.0	78	59.5	61.1	59.5	61.1	70
420791100	PA	Luzerne	65.0	66	49.9	50.6	49.9	50.6	N/A
420791101	PA	Luzerne	64.3	66	49.9	51.2	49.9	51.2	64
420810100	PA	Lycoming	67.0	69	53.9	55.5	53.9	55.5	64
420850100	PA	Mercer	76.3	79	60.0	62.1	60.0	62.1	69
420890002	PA	Monroe	66.7	70	52.9	55.6	52.9	55.6	65
420910013	PA	Montgomery	76.3	78	61.0	62.4	61.0	62.4	72
420950025	PA	Northampton	74.3	77	58.5	60.6	58.5	60.6	70
420958000	PA	Northampton	69.7	71	54.8	55.9	54.8	55.9	69
420990301	PA	Perry	68.3	70	54.8	56.2	54.8	56.2	N/A
421010004	PA	Philadelphia	66.0	70	53.9	57.1	53.9	57.1	61
421010024	PA	Philadelphia	83.3	87	67.3	70.3	67.3	70.3	77
421011002	PA	Philadelphia	80.0	80	64.7	64.7	64.7	64.7	N/A
421119991	PA	Somerset	65.0	65	50.8	50.8	50.8	50.8	N/A
421174000	PA	Tioga	69.7	71	57.3	58.3	57.3	58.3	63
421250005	PA	Washington	70.0	72	57.6	59.2	57.6	59.2	68
421250200	PA	Washington	70.7	73	57.6	59.4	57.6	59.4	65
421255001	PA	Washington	70.3	71	57.9	58.5	57.9	58.5	68
421290006	PA	Westmoreland	71.7	74	60.1	62.0	60.1	62.0	N/A
421290008	PA	Westmoreland	71.0	73	58.0	59.6	58.0	59.6	68
421330008	PA	York	72.3	74	56.9	58.3	56.9	58.3	66
421330011	PA	York	74.3	77	58.0	60.1	58.0	60.1	N/A

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
440030002	RI	Kent	73.7	74	60.4	60.7	60.4	60.7	70
440071010	RI	Providence	74.0	76	60.1	61.8	59.5	61.1	68
440090007	RI	Washington	76.3	78	63.6	65.0	62.6	64.0	70
450010001	SC	Abbeville	62.0	64	45.3	46.8	45.3	46.8	N/A
450030003	SC	Aiken	64.3	67	47.6	49.7	47.6	49.7	60
450070005	SC	Anderson	70.0	73	52.1	54.4	52.1	54.4	60
450150002	SC	Berkeley	62.3	64	47.4	48.7	47.4	48.7	N/A
450190046	SC	Charleston	64.7	66	49.6	50.6	49.8	50.8	N/A
450210002	SC	Cherokee	67.3	70	49.2	51.2	49.2	51.2	N/A
450250001	SC	Chesterfield	64.3	66	48.4	49.6	48.4	49.6	60
450290002	SC	Colleton	61.0	64	46.4	48.7	46.4	48.7	N/A
450310003	SC	Darlington	68.0	70	52.1	53.6	52.1	53.6	62
450370001	SC	Edgefield	63.0	63	46.2	46.2	46.2	46.2	N/A
450450016	SC	Greenville	68.0	69	50.5	51.2	50.5	51.2	N/A
450451003	SC	Greenville	65.3	67	48.9	50.2	48.9	50.2	N/A
450730001	SC	Oconee	64.5	65	48.6	48.9	48.6	48.9	63
450770002	SC	Pickens	69.7	71	52.5	53.5	52.5	53.5	N/A
450790007	SC	Richland	70.0	70	51.2	51.2	51.2	51.2	N/A
450790021	SC	Richland	60.0	62	44.1	45.6	44.1	45.6	N/A
450791001	SC	Richland	71.7	73	52.4	53.4	52.4	53.4	N/A
450830009	SC	Spartanburg	73.7	75	54.6	55.5	54.6	55.5	N/A
450910006	SC	York	64.0	65	47.7	48.4	47.7	48.4	59
460330132	SD	Custer	61.7	63	57.6	58.8	57.6	58.8	58
460710001	SD	Jackson	57.0	59	52.2	54.0	52.2	54.0	58
460930001	SD	Meade	58.5	60	52.0	53.3	52.0	53.3	57
460990008	SD	Minnehaha	66.0	68	55.3	56.9	55.3	56.9	64
461270003	SD	Union	62.5	64	52.6	53.9	52.6	53.9	N/A
470010101	TN	Anderson	70.7	73	54.3	56.0	54.3	56.0	63
470090101	TN	Blount	76.7	79	59.0	60.7	59.0	60.7	67
470090102	TN	Blount	66.3	68	50.8	52.1	50.8	52.1	60
470259991	TN	Claiborne	62.0	62	48.0	48.0	48.0	48.0	63
470370011	TN	Davidson	66.0	69	52.6	54.9	52.6	54.9	66
470370026	TN	Davidson	67.0	67	52.7	52.7	52.7	52.7	67
470651011	TN	Hamilton	72.3	75	54.9	57.0	54.9	57.0	65
470654003	TN	Hamilton	73.3	76	55.4	57.4	55.4	57.4	68
470890002	TN	Jefferson	74.7	78	56.9	59.4	56.9	59.4	68
470930021	TN	Knox	69.0	71	52.6	54.2	52.6	54.2	64
470931020	TN	Knox	71.7	74	54.2	55.9	54.2	55.9	66
471050109	TN	Loudon	72.3	75	55.9	58.0	55.9	58.0	N/A

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
471210104	TN	Meigs	71.3	74	54.4	56.5	54.4	56.5	N/A
471490101	TN	Rutherford	68.5	70	52.8	53.9	52.8	53.9	N/A
471550101	TN	Sevier	74.3	76	57.6	58.9	57.6	58.9	68
471570021	TN	Shelby	76.7	79	59.2	61.0	59.2	61.0	67
471570075	TN	Shelby	78.0	78	60.5	60.5	60.5	60.5	66
471571004	TN	Shelby	75.0	78	57.2	59.5	57.2	59.5	66
471632002	TN	Sullivan	71.7	74	59.2	61.1	59.2	61.1	66
471632003	TN	Sullivan	70.3	72	58.7	60.1	58.7	60.1	64
471650007	TN	Sumner	76.7	79	59.9	61.7	59.9	61.7	67
471650101	TN	Sumner	73.0	75	57.0	58.5	57.0	58.5	N/A
471870106	TN	Williamson	70.3	73	53.9	55.9	53.9	55.9	61
471890103	TN	Wilson	71.7	74	55.1	56.8	55.1	56.8	64
480271047	TX	Bell	74.5	75	63.8	64.2	63.8	64.2	67
480290032	TX	Bexar	76.7	78	66.3	67.4	66.3	67.4	73
480290052	TX	Bexar	78.7	81	68.4	70.4	68.4	70.4	73
480290059	TX	Bexar	68.3	70	59.4	60.9	59.4	60.9	64
480391004	TX	Brazoria	88.0	89	74.0	74.9	74.0	74.9	75
480391016	TX	Brazoria	71.7	73	61.3	62.4	61.3	62.4	64
480430101	TX	Brewster	70.0	71	67.9	68.9	67.9	68.9	62
480610006	TX	Cameron	62.7	64	56.7	57.9	56.7	57.9	57
480850005	TX	Collin	82.7	84	68.2	69.2	68.2	69.2	74
481130069	TX	Dallas	79.7	84	66.2	69.8	66.2	69.8	71
481130075	TX	Dallas	82.0	83	69.0	69.9	69.0	69.9	72
481130087	TX	Dallas	80.0	81	66.9	67.8	66.9	67.8	64
481210034	TX	Denton	84.3	87	69.7	72.0	69.7	72.0	80
481211032	TX	Denton	82.7	84	67.7	68.8	67.7	68.8	76
481390016	TX	Ellis	75.7	77	63.5	64.6	63.5	64.6	63
481391044	TX	Ellis	70.0	72	59.3	61.0	59.3	61.0	62
481410029	TX	El Paso	65.0	65	61.1	61.1	61.1	61.1	62
481410037	TX	El Paso	71.0	72	67.6	68.5	67.6	68.5	71
481410044	TX	El Paso	69.0	70	65.7	66.6	65.7	66.6	67
481410055	TX	El Paso	66.3	68	63.1	64.7	63.1	64.7	64
481410057	TX	El Paso	66.0	66	62.6	62.6	62.6	62.6	66
481410058	TX	El Paso	69.3	71	65.4	67.0	65.4	67.0	68
481671034	TX	Galveston	77.3	80	67.5	69.9	67.3	69.6	76
481830001	TX	Gregg	77.7	79	65.1	66.2	65.1	66.2	66
482010024	TX	Harris	80.3	83	70.4	72.8	70.4	72.8	79
482010026	TX	Harris	77.3	80	67.9	70.2	67.6	70.0	68
482010029	TX	Harris	83.0	84	68.7	69.5	68.7	69.5	69

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482010046	TX	Harris	75.7	77	66.4	67.5	66.4	67.5	67
482010047	TX	Harris	78.3	79	66.7	67.3	66.7	67.3	74
482010051	TX	Harris	80.3	81	67.5	68.1	67.5	68.1	71
482010055	TX	Harris	81.3	83	68.3	69.8	68.3	69.8	75
482010062	TX	Harris	76.7	78	66.0	67.1	66.0	67.1	65
482010066	TX	Harris	77.0	79	64.7	66.4	64.7	66.4	76
482010070	TX	Harris	77.0	77	66.5	66.5	66.5	66.5	N/A
482010416	TX	Harris	78.7	80	66.7	67.8	66.7	67.8	72
482011015	TX	Harris	74.3	77	65.2	67.6	65.0	67.4	65
482011034	TX	Harris	81.0	82	70.8	71.6	70.8	71.6	73
482011035	TX	Harris	78.3	80	68.4	69.9	68.4	69.9	69
482011039	TX	Harris	82.0	84	71.8	73.6	71.8	73.5	67
482011050	TX	Harris	78.3	80	68.3	69.8	68.0	69.5	70
482030002	TX	Harrison	72.7	74	59.9	61.0	59.9	61.0	62
482150043	TX	Hidalgo	61.0	62	55.3	56.2	55.3	56.2	55
482151048	TX	Hidalgo	59.5	60	53.8	54.2	53.8	54.2	N/A
482210001	TX	Hood	76.7	77	63.4	63.7	63.4	63.7	69
482311006	TX	Hunt	71.7	74	59.1	61.0	59.1	61.0	60
482450009	TX	Jefferson	73.3	75	63.5	65.0	63.5	65.0	64
482450011	TX	Jefferson	76.0	76	66.5	66.5	66.2	66.2	67
482450022	TX	Jefferson	71.3	72	61.1	61.7	61.1	61.7	68
482450101	TX	Jefferson	78.0	80	68.4	70.2	68.2	70.0	65
482450102	TX	Jefferson	69.7	71	60.8	62.0	61.0	62.2	62
482450628	TX	Jefferson	70.7	73	61.9	63.9	61.6	63.6	N/A
482451035	TX	Jefferson	71.0	72	62.0	62.8	62.2	63.0	68
482510003	TX	Johnson	79.0	79	65.8	65.8	65.8	65.8	72
482570005	TX	Kaufman	70.7	74	60.5	63.4	60.5	63.4	61
483091037	TX	McLennan	72.7	74	61.9	63.0	61.9	63.0	63
483390078	TX	Montgomery	77.3	79	65.7	67.1	65.7	67.1	72
483491051	TX	Navarro	71.0	72	61.4	62.2	61.4	62.2	61
483550025	TX	Nueces	71.0	72	62.9	63.8	63.5	64.4	64
483550026	TX	Nueces	70.7	72	62.9	64.1	62.9	64.1	63
483611001	TX	Orange	72.7	75	63.7	65.7	64.5	66.6	61
483611100	TX	Orange	68.7	69	60.7	60.9	60.7	60.9	N/A
483670081	TX	Parker	78.7	79	65.8	66.0	65.8	66.0	73
483970001	TX	Rockwall	77.0	77	64.0	64.0	64.0	64.0	66
484230007	TX	Smith	75.0	75	62.3	62.3	62.3	62.3	65
484390075	TX	Tarrant	82.0	83	67.8	68.7	67.8	68.7	72
484391002	TX	Tarrant	81.0	82	67.5	68.4	67.5	68.4	74

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
484392003	TX	Tarrant	87.3	90	72.5	74.8	72.5	74.8	73
484393009	TX	Tarrant	86.0	86	70.6	70.6	70.6	70.6	75
484393011	TX	Tarrant	80.7	83	68.0	70.0	68.0	70.0	65
484530014	TX	Travis	73.7	75	62.9	64.0	62.9	64.0	66
484530020	TX	Travis	72.0	73	60.8	61.6	60.8	61.6	66
484690003	TX	Victoria	68.7	70	61.4	62.6	61.4	62.6	65
490030003	UT	Box Elder	67.7	69	59.8	60.9	60.9	62.1	67
490050004	UT	Cache	64.3	67	57.9	60.3	57.9	60.3	N/A
490071003	UT	Carbon	69.0	69	61.1	61.1	61.1	61.1	66
490110004	UT	Davis	69.3	71	61.3	62.8	60.0	61.5	74
490131001	UT	Duchesne	68.0	68	62.0	62.0	62.0	62.0	N/A
490352004	UT	Salt Lake	74.0	76	65.5	67.2	65.4	67.1	N/A
490353006	UT	Salt Lake	76.0	76	65.8	65.8	65.8	65.8	75
490370101	UT	San Juan	68.7	69	63.6	63.9	63.6	63.9	64
490450003	UT	Tooele	72.0	73	63.9	64.8	63.5	64.4	N/A
490490002	UT	Utah	70.0	73	62.5	65.2	62.7	65.4	71
490495010	UT	Utah	69.3	70	61.9	62.5	62.3	62.9	73
490530006	UT	Washington	67.0	67	61.4	61.4	61.4	61.4	N/A
490530130	UT	Washington	71.7	73	65.8	67.0	65.8	67.0	N/A
490570002	UT	Weber	71.7	72	64.0	64.3	64.0	64.3	71
490571003	UT	Weber	72.7	74	64.1	65.2	65.3	66.5	72
500030004	VT	Bennington	63.7	65	51.3	52.4	51.3	52.4	63
500070007	VT	Chittenden	61.0	62	49.6	50.4	49.6	50.4	61
510030001	VA	Albemarle	66.7	68	52.9	53.9	52.9	53.9	N/A
510130020	VA	Arlington	81.7	86	64.9	68.3	64.9	68.3	72
510330001	VA	Caroline	72.0	74	56.0	57.6	56.0	57.6	N/A
510360002	VA	Charles	75.7	79	59.4	62.0	59.4	62.0	63
510410004	VA	Chesterfield	72.0	75	56.8	59.2	56.8	59.2	62
510590030	VA	Fairfax	82.3	86	65.1	68.1	65.1	68.1	70
510610002	VA	Fauquier	62.7	64	49.5	50.5	49.5	50.5	59
510690010	VA	Frederick	66.7	69	51.4	53.2	51.4	53.2	61
510719991	VA	Giles	63.0	63	47.1	47.1	47.1	47.1	62
510850003	VA	Hanover	73.7	76	56.9	58.6	56.9	58.6	62
510870014	VA	Henrico	75.0	78	58.8	61.2	58.8	61.2	N/A
511071005	VA	Loudoun	73.0	75	57.8	59.4	57.8	59.4	67
511130003	VA	Madison	70.7	72	57.0	58.0	57.0	58.0	63
511390004	VA	Page	66.3	68	53.2	54.6	53.2	54.6	N/A
511479991	VA	Prince Edward	62.0	62	50.3	50.3	50.3	50.3	60
511530009	VA	Prince William	70.0	72	56.2	57.8	56.2	57.8	65

Site	St	County	2009-2013 Avg	2009-2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014-2016
511611004	VA	Roanoke	67.3	70	53.4	55.5	53.4	55.5	62
511630003	VA	Rockbridge	62.3	64	50.2	51.6	50.2	51.6	58
511650003	VA	Rockingham	66.0	68	53.7	55.3	53.7	55.3	60
511790001	VA	Stafford	73.0	76	55.4	57.7	57.1	59.4	63
511970002	VA	Wythe	64.3	66	51.9	53.3	51.9	53.3	61
515100009	VA	Alexandria City	80.0	83	63.4	65.8	63.4	65.8	N/A
516500008	VA	Hampton City	74.0	76	58.2	59.8	56.9	58.4	64
518000004	VA	Suffolk City	71.3	73	58.7	60.1	56.2	57.5	60
518000005	VA	Suffolk City	69.7	71	54.7	55.7	54.7	55.7	61
530110011	WA	Clark	56.0	57	50.4	51.3	50.4	51.3	59
530330010	WA	King	55.0	57	50.0	51.8	50.0	51.8	55
530330017	WA	King	57.0	59	48.9	50.6	48.9	50.6	58
530330023	WA	King	65.0	67	54.9	56.6	54.9	56.6	67
530531010	WA	Pierce	53.3	54	46.2	46.8	46.2	46.8	N/A
530630001	WA	Spokane	58.7	60	51.8	53.0	51.8	53.0	N/A
530630021	WA	Spokane	59.0	60	53.1	54.0	53.1	54.0	N/A
530630046	WA	Spokane	58.7	60	51.0	52.1	51.0	52.1	59
530670005	WA	Thurston	55.7	56	48.3	48.6	48.3	48.6	57
540030003	WV	Berkeley	68.0	70	52.6	54.2	52.6	54.2	63
540110006	WV	Cabell	69.3	72	57.0	59.2	57.0	59.2	64
540219991	WV	Gilmer	60.0	60	49.5	49.5	49.5	49.5	59
540250003	WV	Greenbrier	64.7	66	53.1	54.1	53.1	54.1	59
540291004	WV	Hancock	73.0	75	60.2	61.8	60.2	61.8	N/A
540390010	WV	Kanawha	72.3	74	60.1	61.5	60.1	61.5	N/A
540610003	WV	Monongalia	69.7	72	58.0	59.9	58.0	59.9	64
540690010	WV	Ohio	72.3	74	59.3	60.7	59.3	60.7	68
541071002	WV	Wood	68.3	71	54.5	56.6	54.5	56.6	68
550090026	WI	Brown	68.3	70	56.8	58.2	58.0	59.4	66
550210015	WI	Columbia	67.0	69	55.3	57.0	55.3	57.0	67
550250041	WI	Dane	66.3	69	55.8	58.1	55.8	58.1	65
550270001	WI	Dodge	71.5	72	61.5	61.9	61.5	61.9	68
550290004	WI	Door	75.7	78	63.6	65.5	63.3	65.2	72
550350014	WI	Eau Claire	62.0	62	50.0	50.0	50.0	50.0	61
550390006	WI	Fond du Lac	70.0	72	59.8	61.5	59.8	61.5	66
550410007	WI	Forest	64.7	67	53.3	55.2	53.3	55.2	63
550550002	WI	Jefferson	68.5	70	58.1	59.4	58.1	59.4	N/A
550590019	WI	Kenosha	81.0	84	58.7	60.9	64.8	67.2	77
550610002	WI	Kewaunee	75.0	78	64.0	66.5	64.5	67.1	69
550630012	WI	La Crosse	63.3	65	52.0	53.4	52.0	53.4	62

Site	St	County	2009- 2013 Avg	2009- 2013 Max	2023en "3x3" Avg	2023en "3x3" Max	2023en "No Water" Avg	2023en "No Water" Max	2014- 2016
550710007	WI	Manitowoc	78.7	80	65.6	66.7	67.6	68.7	72
550730012	WI	Marathon	63.3	65	51.3	52.7	51.3	52.7	65
550790010	WI	Milwaukee	69.7	72	55.8	57.6	60.6	62.6	64
550790026	WI	Milwaukee	74.7	78	60.4	63.1	66.5	69.4	68
550790085	WI	Milwaukee	80.0	82	65.4	67.0	71.2	73.0	71
550870009	WI	Outagamie	69.3	72	59.1	61.4	59.1	61.4	67
550890008	WI	Ozaukee	76.3	80	65.7	68.8	67.2	70.5	71
550890009	WI	Ozaukee	74.7	77	62.2	64.1	63.6	65.5	73
551010017	WI	Racine	77.7	81	57.5	59.9	62.2	64.8	N/A
551050024	WI	Rock	69.5	72	58.9	61.1	58.9	61.1	N/A
551110007	WI	Sauk	65.0	67	54.2	55.8	54.2	55.8	64
551170006	WI	Sheboygan	84.3	87	70.8	73.1	72.8	75.1	79
551199991	WI	Taylor	63.0	63	51.1	51.1	51.1	51.1	61
551270005	WI	Walworth	69.3	71	59.7	61.2	59.7	61.2	70
551330027	WI	Waukesha	66.7	69	58.1	60.1	58.1	60.1	66
560050123	WY	Campbell	63.7	65	59.3	60.5	59.3	60.5	58
560050456	WY	Campbell	63.0	64	59.1	60.1	59.1	60.1	60
560070100	WY	Carbon	63.0	64	58.7	59.6	58.7	59.6	60
560130232	WY	Fremont	65.0	66	61.2	62.1	61.2	62.1	61
560210100	WY	Laramie	68.0	68	62.4	62.4	62.4	62.4	63
560350700	WY	Sublette	64.0	64	59.9	59.9	59.9	59.9	61
560370200	WY	Sweetwater	63.7	64	57.9	58.2	57.9	58.2	55
560370300	WY	Sweetwater	66.0	66	60.0	60.0	60.0	60.0	66
560391011	WY	Teton	65.3	66	62.6	63.3	62.4	63.1	60
560410101	WY	Uinta	64.3	65	58.0	58.6	58.0	58.6	61

Attachment B

**Final Rule
LSA Document #16-209(F)
as published in the Indiana Register
on November 22, 2017**

Indiana Cross State Air Pollution Rule

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

November 27, 2017

Robert A. Kaplan
Acting Regional Administrator
U.S. EPA, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: State Implementation Plan Submittal for
Indiana Regarding 326 IAC 24 and 326 IAC 26-1-5,
Cross State Air Pollution Rule (LSA #16-209)

Dear Mr. Kaplan:

Pursuant to Section 110 of the Clean Air Act and Title 13 of the Indiana Code, the Indiana Department of Environmental Management (IDEM) submits an amendment to the Indiana state implementation plan. This amendment consists of revisions to 326 IAC 24-3 and 326 IAC 26-1-5, the addition of 326 IAC 24-5, 326 IAC 24-6, and 326 IAC 24-7, and the repeal of 326 IAC 24-1, 326 IAC 24-2, and some sections of 326 IAC 24-3, accomplished through one rulemaking. IDEM requests that the United States Environmental Protection Agency (U.S. EPA) approve the addition of 326 IAC 24-5, 326 IAC 24-6, 326 IAC 24-7, the revisions to 326 IAC 26-1-5, and the repeal of 326 IAC 24-1, 326 IAC 24-2, 326 IAC 24-3-3, 326 IAC 24-3-5 through 326 IAC 24-3-10, and 326 IAC 24-3-12 into Indiana's state implementation plan (SIP). IDEM is requesting that no action be taken on 326 IAC 24-3-1, 326 IAC 24-3-2, 326 IAC 24-3-4, and 326 IAC 24-3-11.

The revision in 326 IAC 26-1-5 replaces the reference to the Clean Air Interstate Rule (CAIR) with the Cross State Air Pollution Rule (CSAPR) to satisfy the electric generating unit sulfur dioxide and oxides of nitrogen requirements of the Best Available Retrofit Technology rule for Regional Haze. Therefore, IDEM requests that U.S. EPA remove the federal implementation plan (FIP) for CSAPR as part of the Regional Haze Plan and fully approve the Regional Haze Plan that now relies on CSAPR to satisfy the better than BART requirement.

IDEM also requests that U.S. EPA approve the visibility prong (Prong 4) of Indiana's infrastructure SIP submittals for the 2006 Fine Particulate Matter (PM_{2.5}), 2008 Ozone, 2010 Sulfur Dioxide (SO₂), 2010 Nitrogen Dioxide (NO₂), and 2012 PM_{2.5} National Ambient Air Quality Standards.

This submittal consists of one (1) hard copy of the required documentation. An electronic version of the submittal in PDF format that is identical to the hard copy has been sent

to Chris Panos at the U.S. EPA Region 5 office. In order to assist with your review of this state implementation plan submission, a list of supporting documents is attached.

Throughout the development of these new rules and amendments to existing rule, staff of the Office of Legal Counsel and the Office of Air Quality worked closely with your staff to ensure that any potential problems that might exist with this requested state implementation plan revision would be resolved. I request that U.S. EPA approve these modifications of Indiana's state implementation plan. If you have any questions regarding this submittal, please contact Christine Pedersen, Rule Development Section Chief, Office of Legal Counsel at (317) 233-5684.

Sincerely,



Keith Baugues
Assistant Commissioner
Office of Air Quality

KB/cep

Attachments: Supporting Documents

cc: John Mooney, U.S. EPA Region 5 (no enclosures)
Doug Aburano, U.S. EPA Region 5 (no enclosures)
Pamela Blakley, U.S. EPA Region 5 (no enclosures)
Steve Rosenthal, U.S. EPA Region 5 (no enclosures)
Christine Pedersen, IDEM (no enclosures)
SIP file

TITLE 326 AIR POLLUTION CONTROL DIVISION**Final Rule**

LSA Document #16-209(F)

DIGEST

Adds [326 IAC 24-5](#), [326 IAC 24-6](#), and [326 IAC 24-7](#) and amends [326 IAC 24-3-1](#), [326 IAC 24-3-4](#), and [326 IAC 26-1-5](#) concerning the federal Cross-State Air Pollution Rule (CSAPR) and the CSAPR Update Rule for the 2008 Ozone National Ambient Air Quality Standards. Repeals [326 IAC 24-1](#), [326 IAC 24-2](#), [326 IAC 24-3-3](#), [326 IAC 24-3-5](#), [326 IAC 24-3-6](#), [326 IAC 24-3-7](#), [326 IAC 24-3-8](#), [326 IAC 24-3-9](#), [326 IAC 24-3-10](#), and [326 IAC 24-3-12](#). Effective 30 days after filing with the Publisher.

HISTORY

First Notice of Comment Period: June 1, 2016, Indiana Register (DIN: [20160601-IR-326160209FNA](#)).

Second Notice of Comment Period: December 28, 2016, Indiana Register (DIN: [20161228-IR-326160209SNA](#)).

Notice of First Hearing: December 28, 2016, Indiana Register (DIN: [20161228-IR-326160209PHA](#)).

Continuation of Second Notice: January 25, 2017, Indiana Register (DIN: [20170125-IR-326160209SCA](#)).

Change in Notice of Public Hearing: March 8, 2017, Indiana Register (DIN: [20170308-IR-326160209CHA](#)).

Date of First Hearing: April 12, 2017.

Proposed Rule and Notice of Third Comment Period: May 3, 2017, Indiana Register (DIN: [20170503-IR-326160209PRA](#)).

Notice of Second Hearing: May 3, 2017, Indiana Register (DIN: [20170503-IR-326160209PHA](#)).

Date of Second Hearing: July 12, 2017.

[326 IAC 24-1](#); [326 IAC 24-2](#); [326 IAC 24-3-1](#); [326 IAC 24-3-3](#); [326 IAC 24-3-4](#); [326 IAC 24-3-5](#); [326 IAC 24-3-6](#); [326 IAC 24-3-7](#); [326 IAC 24-3-8](#); [326 IAC 24-3-9](#); [326 IAC 24-3-10](#); [326 IAC 24-3-12](#); [326 IAC 24-5](#); [326 IAC 24-6](#); [326 IAC 24-7](#); [326 IAC 26-1-5](#)

SECTION 1. [326 IAC 24-3-1](#) IS AMENDED TO READ AS FOLLOWS:

ARTICLE 24. CROSS-STATE AIR POLLUTION RULE (CSAPR) PROGRAMS**[326 IAC 24-3-1](#) Applicability**

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 1. (a) ~~This rule establishes a NO_x ozone season emissions budget and NO_x trading program for fossil fuel-fired generating units and large affected units as described in this rule. The following units~~ **Any large affected unit as defined in section 2 of this rule**, shall be a CAIR NO_x ozone season unit, and any source that includes one (1) or more such units shall be a CAIR NO_x ozone season source, and shall be subject to the requirements of this rule. ~~except as provided in subsection (b):~~

(1) Any stationary, fossil fuel-fired boiler or stationary, fossil fuel-fired combustion turbine serving at any time, since the later of November 15, 1990 or the start up of the unit's combustion chamber, a generator with nameplate capacity of more than twenty-five (25) megawatt electrical producing electricity for sale.

(2) Any large affected unit as defined in section 2 of this rule.

(3) If a stationary boiler or stationary combustion turbine that, under subdivision (1), is not a CAIR NO_x ozone season unit begins to combust fossil fuel or to serve a generator with nameplate capacity of more than twenty-five (25) megawatt electrical producing electricity for sale, the unit shall become a CAIR NO_x ozone season unit as provided in subdivision (1) on the first date on which it both combusts fossil fuel and serves such generator.

(b) ~~Units that meet the requirements set forth in subdivision (1), (2), or (3) shall not be CAIR NO_x ozone season units under subsection (a)(1) or (a)(3) as follows:~~

(1) Any unit that is a CAIR NO_x ozone season unit under subsection (a)(1) or (a)(3):

(A) qualifying as a cogeneration unit during the twelve (12) month period starting on the date the unit first produces electricity and continuing to qualify as a cogeneration unit; and

(B) not serving at any time, since the later of November 15, 1990, or the start up of the unit's combustion

chamber, a generator with nameplate capacity of more than twenty-five (25) megawatt electrical supplying in any calendar year more than one-third (1/3) of the unit's potential electric output capacity or two hundred nineteen thousand (219,000) megawatt hours, whichever is greater, to any utility power distribution system for sale.

If a unit qualifies as a cogeneration unit during the twelve (12) month period starting on the date the unit first produces electricity and meets the requirements of this subdivision for at least one (1) calendar year, but subsequently no longer meets all such requirements, the unit shall become a CAIR NO_x ozone season unit starting on the earlier of January 1 after the first calendar year during which the unit no longer qualifies as a cogeneration unit or January 1 after the first calendar year during which the unit no longer meets the requirements of clause (B).

(2) Any unit that is a CAIR NO_x ozone season unit under subsection (a)(1) or (a)(3) commencing operation before January 1, 1985:

(A) qualifying as a solid waste incineration unit; and

(B) with an average annual fuel consumption of nonfossil fuel for 1985-1987 exceeding eighty percent (80%), on a British thermal units basis, and an average annual fuel consumption of nonfossil fuel for any three (3) consecutive calendar years after 1990 exceeding eighty percent (80%), on a British thermal units basis.

(3) Any unit that is a CAIR NO_x ozone season unit under subsection (a)(1) or (a)(3) commencing operation on or after January 1, 1985:

(A) qualifying as a solid waste incineration unit; and

(B) with an average annual fuel consumption of nonfossil fuel for the first three (3) calendar years of operation exceeding eighty percent (80%), on a British thermal units basis, and an average annual fuel consumption of nonfossil fuel for any three (3) consecutive calendar years after 1990 exceeding eighty percent (80%), on a British thermal units basis.

(4) If the unit qualifies as a solid waste incineration unit and meets the requirements of subdivision (2) or (3) for at least three (3) consecutive calendar years, but subsequently no longer meets all such requirements, the unit shall become a CAIR NO_x ozone season unit starting on the earlier of January 1 after the first calendar year during which the unit first no longer qualifies as a solid waste incineration unit or January 1 after the first three (3) consecutive calendar years after 1990 for which the unit has an average annual fuel consumption of fossil fuel of twenty percent (20%) or more.

(Air Pollution Control Division; [326 IAC 24-3-1](#); filed Jan 26, 2007, 10:25 a.m.: [20070221-IR-326050117FRA](#); filed May 12, 2009, 11:16 a.m.: [20090610-IR-326080005FRA](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

SECTION 2. [326 IAC 24-3-4](#) IS AMENDED TO READ AS FOLLOWS:

[326 IAC 24-3-4](#) Standard requirements

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 4. (a) The owners and operators, and CAIR designated representative of each CAIR NO_x ozone season source shall comply with the following permit requirements:

(1) The CAIR designated representative of each CAIR NO_x ozone season source required to have a federally enforceable permit and each CAIR NO_x ozone season unit required to have a federally enforceable permit at the source shall submit the following to the department:

(A) A complete CAIR permit application under section 7(c) of this rule in accordance with the deadlines specified in section 7(b)(1) of this rule.

(B) Any supplemental information that the department determines is necessary in order to review a CAIR permit application in a timely manner and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NO_x ozone season source required to have a federally enforceable permit and each CAIR NO_x ozone season unit required to have a federally enforceable permit at the source shall have a CAIR permit issued by the department under section 7 of this rule for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in section 12 of this rule, the owners and operators of a CAIR NO_x ozone season source that is not otherwise required to have a federally enforceable permit and each CAIR NO_x ozone season unit that is not otherwise required to have a federally enforceable permit are not required to submit a CAIR permit application, and to have a CAIR permit, under section 7 of this rule for such CAIR NO_x ozone season source and such CAIR NO_x ozone season unit.

(b) The owners and operators, and the CAIR designated representative, of each CAIR NO_x ozone season source and CAIR NO_x ozone season unit at the source shall comply with the following monitoring, reporting, and record keeping requirements:

(1) The monitoring, reporting, and record keeping requirements of section 11 of this rule.

(2) The emissions measurements recorded and reported in accordance with section 11 of this rule shall be used to determine compliance by each CAIR NO_x ozone season source with the CAIR NO_x ozone season emissions limitation under subsection (c).

(c) The owners and operators, and the CAIR designated representative, of each CAIR NO_x ozone season source and CAIR NO_x ozone season unit at the source shall comply with the following nitrogen oxides emission requirements:

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x ozone season source and each CAIR NO_x ozone season unit at the source shall hold, in the source's compliance account, CAIR NO_x ozone season allowances available for compliance deductions for the control period under section 9(i) of this rule in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x ozone season units at the source, as determined in accordance with section 11 of this rule.

(2) A CAIR NO_x ozone season unit shall be subject to the requirements under subdivision (1) for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under section 11(c)(1), 11(c)(2), 11(c)(3), or 11(c)(7) of this rule and for each control period thereafter.

(3) A CAIR NO_x ozone season allowance shall not be deducted, for compliance with the requirements under subdivision (1), for a control period in a calendar year before the year for which the CAIR NO_x ozone season allowance was allocated.

(4) CAIR NO_x ozone season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x ozone season allowance tracking system accounts in accordance with sections 9, 10, and 12 of this rule.

(5) A CAIR NO_x ozone season allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NO_x ozone season trading program. No provision of the CAIR NO_x ozone season trading program, the CAIR permit application, the CAIR permit, or an exemption under section 3 of this rule and no provision of law shall be construed to limit the authority of the state of Indiana or the United States to terminate or limit such authorization.

(6) A CAIR NO_x ozone season allowance does not constitute a property right.

(7) Upon recordation by the U.S. EPA under section 9, 10, or 12 of this rule, every allocation, transfer, or deduction of a CAIR NO_x ozone season allowance to or from a CAIR NO_x ozone season source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) If a CAIR NO_x ozone season source emits nitrogen oxides during any control period in excess of the CAIR NO_x ozone season emissions limitation, then:

(1) the owners and operators of the source and each CAIR NO_x ozone season unit at the source shall surrender the CAIR NO_x ozone season allowances required for deduction under section 9(j)(4) of this rule and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and

(2) each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable state law.

(e) Owners and operators of each CAIR NO_x ozone season source and each CAIR NO_x ozone season unit at the source shall comply with the following record keeping and reporting requirements:

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x ozone season source and each CAIR NO_x ozone season unit at the source shall keep on site at the source or a central location within Indiana for those owners and operators with unattended sources, each of the following documents for a period of five (5) years from the date the document is created. This period may be extended for cause, at any time before the end of five (5) years, in writing by the department or U.S. EPA:

(A) The certificate of representation under section 6(h) of this rule for the CAIR designated representative for the source and each CAIR NO_x ozone season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source or a central location within Indiana for those owners and operators with unattended sources beyond such five (5) year period until such documents are superseded because of the submission of a new certificate of representation under section 6(h) of this rule changing the CAIR designated representative.

(B) All emissions monitoring information, in accordance with section 11 of this rule, provided that to the extent that section 11 of this rule provides for a three (3) year period for record keeping, the three (3) year period shall apply.

(C) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR-NO_x ozone season trading program.

(D) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR-NO_x ozone season trading program or to demonstrate compliance with the requirements of the CAIR-NO_x ozone season trading program.

(2) The CAIR designated representative of a CAIR-NO_x ozone season source and each CAIR-NO_x ozone season unit at the source shall submit the reports required under the CAIR-NO_x ozone season trading program, including those under section 11 of this rule.

(f) The owners and operators of each CAIR-NO_x source and each CAIR-NO_x unit shall be liable as follows:

(1) Each CAIR-NO_x ozone season source and each CAIR-NO_x ozone season unit shall meet the requirements of the CAIR-NO_x ozone season trading program.

(2) Any provision of the CAIR-NO_x ozone season trading program that applies to a CAIR-NO_x ozone season source or the CAIR designated representative of a CAIR-NO_x ozone season source shall also apply to the owners and operators of such source and of the CAIR-NO_x ozone season units at the source.

(3) Any provision of the CAIR-NO_x ozone season trading program that applies to a CAIR-NO_x ozone season unit or the CAIR designated representative of a CAIR-NO_x ozone season unit shall also apply to the owners and operators of such unit.

(g) No provision of the CAIR-NO_x ozone season trading program, a CAIR permit application, a CAIR permit, or an exemption under section 3 of this rule shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR-NO_x ozone season source or CAIR-NO_x ozone season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(Air Pollution Control Division; [326 IAC 24-3-4](#); filed Jan 26, 2007, 10:25 a.m.: [20070221-IR-326050117FRA](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

SECTION 3. [326 IAC 24-5](#) IS ADDED TO READ AS FOLLOWS:

Rule 5. Nitrogen Oxides (NO_x) Annual Trading Program

[326 IAC 24-5-1](#) Applicability and incorporation by reference

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-11-2](#); [IC 13-15](#); [IC 13-17](#)

Sec. 1. (a) This rule applies to CSAPR NO_x annual units and CSAPR NO_x annual sources as specified in 40 CFR 97.404*, as amended by 81 FR 74605, that are located in Indiana.

(b) The definitions in [IC 13-11-2](#), [326 IAC 1](#), and 40 CFR 97.402*, as amended by 84 FR 74604, apply throughout this rule. For purposes of this rule, the definition for a term provided in 40 CFR 97.402 controls in any conflict between [326 IAC 1](#) and 40 CFR 97.402.

(c) The following federal provisions are incorporated by reference:

(1) The CSAPR NO_x Annual Trading Program at:

(A) 40 CFR 97.402* through 40 CFR 97.408*, as amended by 81 FR 74604;

(B) 40 CFR 97.411(c)(1)* through 40 CFR 97.411(c)(4)*, as amended by 81 FR 74606;

(C) 40 CFR 97.411(c)(5)(i)* and 40 CFR 97.411(c)(5)(ii)*, as amended by 81 FR 74606;

(D) 40 CFR 97.413* through 40 CFR 97.420*, as amended by 81 FR 74606;

(E) 40 CFR 97.421(e)* through 40 CFR 97.421(g)*, as amended by 81 FR 74606;

(F) 40 CFR 97.421(i)*, as amended by 81 FR 74606;

(G) 40 CFR 97.421(k)* and 40 CFR 97.421(l)*, as amended by 81 FR 74606; and

(H) 40 CFR 97.422* through 40 CFR 97.435*, as amended by 81 FR 74607.

(2) The Indiana NO_x annual variability limit at 40 CFR 97.410(b)(4)*, as amended by 81 FR 74606.

(d) The following are substitutions to 40 CFR as incorporated into this rule:

(1) As it appears in 40 CFR 97.402 and 40 CFR 97.406(c)(2)(iii), substitute the following:

(A) Delete "§ 97.410(a)" and insert "40 CFR 97.410(a)(4)(iv)".

(B) Delete "§ 97.410(b)" and insert "40 CFR 97.410(b)(4)".

(2) As it appears in 40 CFR 97.402, delete "§ § 97.411 and 97.412" and insert "[326 IAC 24-5-5](#), [326 IAC 24-5-6](#), and [326 IAC 24-5-7](#)".

(3) As it appears in 40 CFR 97.406(b)(2), delete "§ 97.411(a)(2) and (b) and 97.412" and insert "[326 IAC 24-5-5](#), [326 IAC 24-5-6](#), and [326 IAC 24-5-7](#)".

*These documents are incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-5-1](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-5-2](#) CSAPR NO_x annual trading budget

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 2. (a) The total Indiana CSAPR NO_x annual trading budget, in 40 CFR 97.410(a)(4)(iv)*, as amended by 81 FR 74606, is available for each control period starting in 2021 and thereafter. This does not include any tons in a variability limit.

(b) For each control period in 2021 and thereafter, a new unit set-aside is established for Indiana equal to the allowances at 40 CFR 97.410(a)(4)(v)*, as amended by 81 FR 74606 and any additional allowances at 40 CFR 97.411(c)(5)*, as amended by 81 FR 74606.

(c) The existing unit budget is the difference between the total trading budget at 40 CFR 97.410(a)(4)(iv)*, as amended by 81 FR 74606, and the new unit set-aside at 40 CFR 97.410(a)(4)(v)*, as amended by 81 FR 74606.

*These documents are incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-5-2](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-5-3](#) CSAPR NO_x annual allocation timing

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 3. The department shall allocate CSAPR NO_x annual allowances according to the following schedule:

(1) By June 1, 2018, the department shall submit to the United States Environmental Protection Agency (U.S. EPA) the existing unit allowance allocations, in accordance with section 5 of this rule, for control periods in 2021 and 2022.

(2) By June 1, 2019, and June 1 every two (2) years thereafter, the department shall submit to U.S. EPA the existing unit allowance allocations in accordance with section 5 of this rule, for control periods four (4) and five (5) years after the applicable deadline for submission under this subdivision.

(3) By July 1, 2021, and July 1 of each year thereafter, the department shall submit to U.S. EPA the new unit set-aside allowance allocations, in accordance with section 6 of this rule, for the control period in the year of the applicable deadline for submission under this subdivision.

(4) By February 6, 2022, and February 6 of each year thereafter, the department shall submit to U.S.

EPA the new unit set-aside allowance allocations in accordance with section 7 of this rule, for the control period in the previous year of the applicable deadline for submission under this subdivision.

(Air Pollution Control Division; [326 IAC 24-5-3](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-5-4](#) Baseline heat input and historic emissions

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 4. (a) For purposes of this rule, an existing unit is any unit with a baseline heat input, in million British thermal units (MMBtu). Baseline heat input is determined as follows:

(1) If a unit commenced commercial operation prior to January 1, 2016, then the following applies:

(A) For an allowance allocation for control periods in 2021 and 2022 the baseline heat input is the average of the three (3) highest control period heat inputs in 2008 through 2015.

(B) For an allowance allocation for control periods in 2023 and 2024 and every two (2) control periods thereafter, the baseline heat input is the average of the three (3) highest, non-zero control period heat inputs in the eight (8) years before the allocation is calculated.

(C) If a unit has only two (2) non-zero heat inputs during the eight (8) years before the allocation is calculated, the baseline heat input is the average of those two (2) non-zero control period heat inputs.

(D) If a unit has only one (1) non-zero heat input during the eight (8) years before the allocation is calculated, the baseline heat input is that one (1) non-zero control period heat input.

(2) If a unit commenced commercial operation on or after January 1, 2016, and operates each control period during a period of three (3) or more consecutive calendar years, for an allowance allocation under section 3(2) of this rule, the baseline heat input is the average of the three (3) highest, non-zero control period heat input values for the years before the calculation of the allocation, not to exceed eight (8) control periods.

(b) For purposes of this rule, new units either:

(1) commenced operation on or after January 1, 2016, and do not have a baseline heat input; or

(2) did not receive allowances as determined under section 5(c) of this rule, and operated during the control period immediately preceding the year of allocation.

(c) The maximum historic emission cap is the maximum NO_x emissions, in tons, that occurred during any control period of the historic emissions period. The historic emissions period is an eight (8) year history for each unit ending with the most recent year of the eight (8) years used for the determination of the heat input under subsection (a).

(d) A unit's control period heat input and a unit's total tons of NO_x emissions during a control period under this section must be determined in accordance with 40 CFR 75*.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-5-4](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-5-5](#) Existing unit allocations and adjustments

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 5. (a) For each control period in 2021 and thereafter, the department shall allocate to all existing units that have a baseline heat input the total amount of allowances as listed in section 2(c) of this rule in accordance with this section.

(b) The initial allocation for an existing unit is the existing unit budget multiplied by the ratio of the baseline heat input of the unit to the total amount of baseline heat inputs of all CSAPR NO_x annual units, rounded to the nearest whole allowance.

(c) A unit receives no allowances if the unit does not operate during the control period in two (2) consecutive years as follows:

- (1) Allowances must not be allocated to the unit for the control period in the fifth year after the first year of not operating and in each year after the fifth year.
- (2) If the unit resumes operation, the department must allocate allowances to the unit in accordance with the standards for new unit allocations until the unit has a baseline heat input.

(d) The allocation to each unit is the lesser of the following, plus any reapportioned allowances:

- (1) Initial allocation under subsection (b).
- (2) A cap on emissions pursuant to a federally enforceable judicial consent decree.
- (3) Maximum historic emissions, as determined under section 4(c) of this rule.
- (4) No allowances if the unit does not operate as described in subsection (c).

(e) All allowances remaining after the application of subsections (b) and (c) are reapportioned as follows, until the entire existing unit budget is allocated, with each resulting allocation value rounded to the nearest whole allowance:

- (1) Remaining allowances are reapportioned to the remaining units whose initial allocation is not limited by subsection (d)(2) through (d)(4).
- (2) Allocations are apportioned on the same basis as under subsection (b).
- (3) These steps are repeated with each revised allocation distribution until the entire existing unit budget is allocated.

(f) By March 1 of each year existing unit allocations are made under this section, the department shall make the allowance allocations available for public review. The department may adjust each determination if appropriate or necessary to ensure that it is in accordance with this rule.

(Air Pollution Control Division; [326 IAC 24-5-5](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-5-6](#) New unit allocations

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 6. (a) For each control period in 2021 and thereafter, the department shall allocate to all new units, a total amount of allowances in the new unit set-aside as listed in section 2(b) of this rule.

(b) The department must determine for each new unit an allocation of allowances for the later of the following control periods and for each subsequent control period:

- (1) The control period starting in 2021.
- (2) The first full control period after the unit commences commercial operation.
- (3) For a unit misallocated allowances under 40 CFR 97.411(c)*, as amended by 81 FR 74606, the first control period in which the unit operates in Indiana after operating in another jurisdiction and the unit must not already have been allocated one (1) or more allowances.
- (4) For a unit that received no allowances as described in section 5(c) of this rule that resumes operation, the first full control period after the unit resumes operation.

(c) The allocation to each unit for each control period must be an amount equal to the unit's total tons of NO_x emissions during the immediately preceding control period. The department may adjust the allocations as follows:

- (1) If the amount of allowances in the new unit set-aside for a control period is greater than or equal to the sum of the preceding control period emissions, then the department shall allocate the amount equal to the unit's total tons of NO_x emissions during the immediately preceding control period.
- (2) If the amount of allowances in the new unit set-aside for a control period is less than the sum of the preceding control period emissions, then the department shall allocate to each unit an amount equal

to the unit's tons of NO_x emissions during the immediately preceding control period for the unit, multiplied by the amount of allowances in the new unit set-aside for the control period, divided by the sum of the preceding control period emissions, rounded to the nearest whole allowance.

(d) The department shall notify each CSAPR designated representative of the amount of allowances allocated under this section.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-5-6](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-5-7](#) Unallocated new unit set-aside allowances

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 7. (a) Unallocated allowances remaining in the new unit set-aside after completion of the procedures of section 6 of this rule, for a control period, shall be allocated first to new units as follows:

(1) For each unit that commenced commercial operation during the period starting January 1 of the year before the year of the control period and ending November 30 of the year of the control period, the department shall determine the positive difference, if any, between the unit's emissions during the control period and the amount of allowances awarded for the unit for the control period.

(2) The department shall determine the sum of the positive differences determined under subdivision (1) and then proceed as follows:

(A) If the amount of unallocated allowances remaining in the new unit set-aside for a control period is greater than or equal to the sum determined under this subdivision, then the department must allocate the amount of allowances determined for each unit under subdivision (1).

(B) If the amount of unallocated allowances remaining in the new unit set-aside for a control period is less than the sum under this subdivision, then the department must allocate to each unit under the following formula, rounded to the nearest whole allowance:

$$\text{Unit allowance} = ((E-A) \times \text{RNUSA}) / \text{Sum}$$

Where: Unit allowance is the total allowances allocated to the unit.
E is the unit's emissions during the control period.
A is the amount of allowances awarded for the unit for the control period.
RNUSA is the remaining allowances in the new unit set-aside.
Sum is the total amount of allocations under this subdivision.

(b) After completion of the procedures under subsection (a) for a control period, if any unallocated allowances remain in the new unit set-aside for the control period, the department shall allocate to each existing unit that was allocated allowances under section 5 of this rule, an amount of allowances under the following formula:

$$\text{Unit allowance} = (\text{UA} \times \text{EUA}) / \text{EUB}$$

Where: Unit allowance is the total allowances allocated to the unit.
UA is the total amount of the remaining unallocated allowances in the new unit set-aside.
EUA is the unit's allocation under section 5 of this rule for the control period.
EUB is the existing unit budget, as listed in section 2(c) of this rule, for the control period, rounded to the nearest whole allowance.

(c) The department shall notify each CSAPR designated representative of the amount of allowances

allocated under this section.

(Air Pollution Control Division; [326 IAC 24-5-7](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

SECTION 4. [326 IAC 24-6](#) IS ADDED TO READ AS FOLLOWS:

Rule 6. Nitrogen Oxides (NO_x) Ozone Season Group 2 Trading Program

[326 IAC 24-6-1](#) Applicability and incorporation by reference

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-11-2](#); [IC 13-15](#); [IC 13-17](#)

Sec. 1. (a) This rule applies to CSAPR NO_x Ozone Season Group 2 units and CSAPR NO_x Ozone Season Group 2 sources as specified in 40 CFR 97.804*, as added by 81 FR 74627, that are located in Indiana.

(b) The definitions in [IC 13-11-2](#), [326 IAC 1](#), and 40 CFR 97.802*, as added by 81 FR 74622, apply throughout this rule. For purposes of this rule, the definition for a term provided in 40 CFR 97.802 controls in any conflict between [326 IAC 1](#) and 40 CFR 97.802.

(c) The following federal provisions are incorporated by reference:

(1) The CSAPR NO_x Ozone Season Group 2 Trading Program at:

(A) 40 CFR 97.802* through 40 CFR 97.808*, as added by 81 FR 74622;

(B) 40 CFR 97.811(c)(1)* through 40 CFR 97.811(c)(4)*, as added by 81 FR 74633;

(C) 40 CFR 97.811(c)(5)(i)* and 40 CFR 97.811(c)(5)(ii)*, as added by 81 FR 74633;

(D) 40 CFR 97.813* through 40 CFR 97.820*, as added by 81 FR 74637;

(E) 40 CFR 97.821(d)* through 40 CFR 97.411(g)*, as added by 81 FR 74642;

(F) 40 CFR 97.821(i)*, as added by 81 FR 74642;

(G) 40 CFR 97.821(k)* and 40 CFR 97.821(l)*, as added by 81 FR 74643; and

(H) 40 CFR 97.822* through 40 CFR 97.835*, as added by 81 FR 74643.

(2) The Indiana NO_x ozone season group 2 variability limit at 40 CFR 97.810(b)(5)*, as added by 81 FR 74631.

(d) The following are substitutions to 40 CFR as incorporated into this rule:

(1) As it appears in 40 CFR 97.802 and 40 CFR 97.806(c)(2)(iii), substitute the following:

(A) Delete "§ 97.810(a)" and insert "40 CFR 97.810(a)(5)(i)".

(B) Delete "§ 97.810(b)" and insert "40 CFR 97.810(b)(5)".

(2) As it appears in 40 CFR 97.802, delete "§ § 97.811 and 97.812" and insert "[326 IAC 24-6-5](#), [326 IAC 24-6-6](#), and [326 IAC 24-6-7](#)".

(3) As it appears in 40 CFR 97.806(b)(2), delete "§ § 97.811(a)(2) and (b) 97.812" and insert "[326 IAC 24-6-5](#), [326 IAC 24-6-6](#), and [326 IAC 24-6-7](#)".

*These documents are incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-6-1](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-6-2](#) CSAPR NO_x ozone season group 2 trading budget

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 2. (a) The total Indiana CSAPR NO_x ozone season group 2 trading budget, in 40 CFR 97.810(a)(5)(i)*, as added by 81 FR 74631, is available for each control period starting in 2021 and thereafter. This does not include any tons in a variability limit.

(b) For each control period in 2021 and thereafter, a new unit set-aside is established for Indiana equal to the allowances at 40 CFR 97.810(a)(5)(ii)*, as added by 81 FR 74631, and any additional allowances at 40 CFR 97.811(c)(5)*, as added by 81 FR 74633.

(c) The existing unit budget is the difference between the total trading budget at 40 CFR 97.810(a)(5)(i)*, as added by 81 FR 74631, and the new unit set-aside at 40 CFR 97.810(a)(5)(ii)*, as added by 81 FR 74631.

*These documents are incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-6-2](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-6-3](#) CSAPR NO_x ozone season group 2 allocation timing

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 3. The department shall allocate CSAPR NO_x ozone season group 2 allowances according to the following schedule:

- (1) By June 1, 2018, the department shall submit to U.S. EPA the existing unit allowance allocations, in accordance with section 5 of this rule, for control periods in 2021 and 2022.
- (2) By June 1, 2019, and June 1 every two (2) years thereafter, the department shall submit to U.S. EPA the existing unit allowance allocations in accordance with section 5 of this rule, for control periods four (4) and five (5) years after the applicable deadline for submission under this subdivision.
- (3) By July 1, 2021, and July 1 of each year thereafter, the department shall submit to U.S. EPA the new unit set-aside allowance allocations, in accordance with section 6 of this rule, for the control period in the year of the applicable deadline for submission under this subdivision.
- (4) By February 6, 2022, and February 6 of each year thereafter, the department shall submit to U.S. EPA the new unit set-aside allowance allocations in accordance with section 7 of this rule, for the control period in the previous year of the applicable deadline for submission under this subdivision.

(Air Pollution Control Division; [326 IAC 24-6-3](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-6-4](#) Baseline heat input and historic emissions

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 4. (a) For purposes of this rule, an existing unit is any unit with a baseline heat input, in MMBtu. Baseline heat input is determined as follows:

- (1) If a unit commenced commercial operation prior to January 1, 2016, then the following applies:
 - (A) For an allowance allocation for control periods in 2021 and 2022 the baseline heat input is the average of the three (3) highest control period heat inputs in 2008 through 2015.
 - (B) For an allowance allocation for control periods in 2023 and 2024 and every two (2) control periods thereafter, the baseline heat input is the average of the three (3) highest, non-zero control period heat inputs in the eight (8) years before the allocation is calculated.
 - (C) If a unit has only two (2) non-zero heat inputs during the eight (8) years before the allocation is calculated, the baseline heat input is the average of those two (2) non-zero control period heat inputs.
 - (D) If a unit has only one (1) non-zero heat input during the eight (8) years before the allocation is calculated, the baseline heat input is that one (1) non-zero control period heat input.
- (2) If a unit commenced commercial operation on or after January 1, 2016, and operates each control period during a period of three (3) or more consecutive calendar years, for an allowance allocation under section 3(2) of this rule, the baseline heat input is the average of the three (3) highest, non-zero control period heat input values for the years before the calculation of the allocation, not to exceed

eight (8) control periods.

(b) For purposes of this rule, new units either:

- (1) commenced operation on or after January 1, 2016, and do not have a baseline heat input; or
- (2) did not receive allowances as determined under section 5(c) of this rule, and operated during the control period immediately preceding the year of allocation.

(c) The maximum historic emission cap is the maximum NO_x emissions, in tons, that occurred during any control period of the historic emissions period. The historic emissions period is an eight (8) year history for each unit ending with the most recent year of the eight (8) years used for the determination of the heat input under subsection (a).

(d) A unit's control period heat input and a unit's total tons of NO_x emissions during a control period under this section must be determined in accordance with 40 CFR 75*.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-6-4](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-6-5](#) Existing unit allocations and adjustments

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 5. (a) For each control period in 2021 and thereafter, the department shall allocate to all existing units that have a baseline heat input the total amount of allowances as listed in section 2(c) of this rule in accordance with this section.

(b) The initial allocation for an existing unit is the existing unit budget multiplied by the ratio of the baseline heat input of the unit to the total amount of baseline heat inputs of all CSAPR NO_x ozone season group 2 units, rounded to the nearest whole allowance.

(c) A unit receives no allowances if the unit does not operate during the control period in two (2) consecutive years as follows:

- (1) Allowances must not be allocated to the unit for the control period in the fifth year after the first year of not operating and in each year after the fifth year.
- (2) If the unit resumes operation, the department must allocate allowances to the unit in accordance with the standards for new unit allocations until the unit has a baseline heat input.

(d) The allocation to each unit is the lesser of the following, plus any reapportioned allowances:

- (1) Initial allocation under subsection (b).
- (2) A cap on emissions pursuant to a federally enforceable judicial consent decree.
- (3) Maximum historic emissions, as determined under section 4(c) of this rule.
- (4) No allowances if the unit does not operate as described in subsection (c).

(e) All allowances remaining after the application of subsections (b) and (c) are reapportioned as follows, until the entire existing unit budget is allocated, with each resulting allocation value rounded to the nearest whole allowance:

- (1) Remaining allowances are reapportioned to the remaining units whose initial allocation is not limited by subsection (d)(2) through (d)(4).
- (2) Allocations are apportioned on the same basis as under subsection (b).
- (3) These steps are repeated with each revised allocation distribution until the entire existing unit budget is allocated.

(f) By March 1 of each year existing unit allocations are made under this section, the department shall make the allowance allocations available for public review. The department may adjust each determination if appropriate or necessary to ensure that it is in accordance with this rule.

(Air Pollution Control Division; [326 IAC 24-6-5](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-6-6](#) New unit allocations

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 6. (a) For each control period in 2021 and thereafter, the department shall allocate to all new units, a total amount of allowances in the new unit set-aside as listed in section 2(b) of this rule.

(b) The department must determine for each new unit an allocation of allowances for the later of the following control periods and for each subsequent control period:

- (1) The control period starting in 2021.
- (2) The first full control period after the unit commences commercial operation.
- (3) For a unit misallocated allowances under 40 CFR 97.811(c)*, as added by 81 FR 74633, the first control period in which the unit operates in Indiana after operating in another jurisdiction and the unit must not already have been allocated one (1) or more allowances.
- (4) For a unit that received no allowances as described in section 5(c) of this rule that resumes operation, the first full control period after the unit resumes operation.

(c) The allocation to each unit for each control period must be an amount equal to the unit's total tons of NO_x emissions during the immediately preceding control period. The department may adjust the allocations as follows:

- (1) If the amount of allowances in the new unit set-aside for a control period is greater than or equal to the sum of the preceding control period emissions, then the department shall allocate the amount equal to the unit's total tons of NO_x emissions during the immediately preceding control period.
- (2) If the amount of allowances in the new unit set-aside for a control period is less than the sum of the preceding control period emissions, then the department shall allocate to each unit an amount equal to the unit's tons of NO_x emissions during the immediately preceding control period for the unit, multiplied by the amount of allowances in the new unit set-aside for the control period, divided by the sum of the preceding control period emissions, rounded to the nearest whole allowance.

(d) The department shall notify each CSAPR designated representative of the amount of allowances allocated under this section.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-6-6](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-6-7](#) Unallocated new unit set-aside allowances

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 7. (a) Unallocated allowances remaining in the new unit set-aside after completion of the procedures of section 6 of this rule, for a control period, shall be allocated first to new units as follows:

- (1) For each unit that commenced commercial operation during the period starting January 1 of the year before the year of the control period and ending November 30 of the year of the control period, the department shall determine the positive difference, if any, between the unit's emissions during the control period and the amount of allowances awarded for the unit for the control period.
- (2) The department shall determine the sum of the positive differences determined under subdivision

(1) and then proceed as follows:

(A) If the amount of unallocated allowances remaining in the new unit set-aside for a control period is greater than or equal to the sum determined under this subdivision, then the department must allocate the amount of allowances determined for each unit under subdivision (1).

(B) If the amount of unallocated allowances remaining in the new unit set-aside for a control period is less than the sum under this subdivision, then the department must allocate to each unit under the following formula, rounded to the nearest whole allowance:

$$\text{Unit Allowance} = ((E-A) \times \text{RNUSA}) / \text{Sum}$$

Where: Unit allowance is the total allowances allocated to the unit.
E is the unit's emissions during the control period.
A is the amount of allowances awarded for the unit for the control period.
RNUSA is the remaining allowances in the new unit set-aside.
Sum is the total amount of allocations under this subdivision.

(b) After completion of the procedures under subsection (a) for a control period, if any unallocated allowances remain in the new unit set-aside for the control period, the department shall allocate to each existing unit that was allocated allowances under section 5 of this rule, an amount of allowances under the following formula:

$$\text{Unit allowance} = (\text{UA} \times \text{EUA}) / \text{EUB}$$

Where: Unit allowance is the total allowances allocated to the unit.
UA is the total amount of the remaining unallocated allowances in the new unit set-aside.
EUA is the unit's allocation under section 5 of this rule for the control period.
EUB is the existing unit budget, as listed in section 2(c) of this rule, for the control period, rounded to the nearest whole allowance.

(c) The department shall notify each CSAPR designated representative of the amount of allowances allocated under this section.

(Air Pollution Control Division; [326 IAC 24-6-7](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

SECTION 5. [326 IAC 24-7](#) IS ADDED TO READ AS FOLLOWS:

Rule 7. Sulfur Dioxide (SO₂) Group 1 Trading Program

[326 IAC 24-7-1](#) Applicability and incorporation by reference

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-11-2](#); [IC 13-15](#); [IC 13-17](#)

Sec. 1. (a) This rule applies to CSAPR SO₂ Group 1 units and CSAPR SO₂ Group 1 sources as specified in 40 CFR 97.604*, as amended by 81 FR 74616, that are located in Indiana.

(b) The definitions in [IC 13-11-2](#), [326 IAC 1](#), and 40 CFR 97.602*, as amended by 81 FR 74615, apply throughout this rule. For purposes of this rule, the definition for a term provided in 40 CFR 97.602 controls in any conflict between [326 IAC 1](#) and 40 CFR 97.602.

(c) The following federal provisions are incorporated by reference:

(1) The CSAPR SO₂ Group 1 Trading Program at:

(A) 40 CFR 97.602* through 40 CFR 97.608*, as amended by 81 FR 74615;

(B) 40 CFR 97.611(c)(1)* through 40 CFR 97.611(c)(4)*, as amended by 81 FR 74616;

(C) 40 CFR 97.611(c)(5)(i)* and 40 CFR 97.611(c)(5)(ii)*, as amended by 81 FR 74616;

- (D) 40 CFR 97.613* through 40 CFR 97.620*, as amended by 81 FR 74617;
 - (E) 40 CFR 97.621(e)* through 40 CFR 97.621(g)*, as amended by 81 FR 74617;
 - (F) 40 CFR 97.621(i)*, as amended by 81 FR 74617;
 - (G) 40 CFR 97.621(k)* and 40 CFR 97.621(l)*, as amended by 81 FR 74617; and
 - (H) 40 CFR 97.622* through 40 CFR 97.635*, as amended by 81 FR 74617.
- (2) The Indiana CSAPR SO₂ group 1 trading budget variability limit at 40 CFR 97.610(b)(2)*, as amended by 81 FR 74616.

(d) The following are substitutions to 40 CFR as incorporated into this rule:

- (1) As it appears in 40 CFR 97.602 and 40 CFR 97.606(c)(2)(iii) substitute the following:
 - (A) Delete "§ 97.610(a)" and insert "40 CFR 97.610(a)(2)(iv)".
 - (B) Delete "§ 97.610(b)" and insert "40 CFR 97.610(b)(2)".
- (2) As it appears in 40 CFR 97.602, delete "§ 97.611 and 97.612" and insert "[326 IAC 24-7-5](#), [326 IAC 24-7-6](#), and [326 IAC 24-7-7](#)".
- (3) As is appears in 40 CFR 97.606(b)(2), delete "§ § 97.611(a)(2) and 97.611(b)" and insert "[326 IAC 24-7-5](#), [326 IAC 24-7-6](#), and [326 IAC 24-7-7](#)".

*These documents are incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-7-1](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-7-2](#) CSAPR SO₂ group 1 trading budget

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 2. (a) The Indiana CSAPR SO₂ group 1 allowance trading budget, at 40 CFR 97.610(a)(2)(iv)*, as amended by 81 FR 74616, is available for each control period starting in 2021 and thereafter. This does not include any tons in a variability limit.

(b) For each control period in 2021 and thereafter, a new unit set-aside is established for Indiana equal to the allowances at 40 CFR 97.610(a)(2)(v)*, as amended by 81 FR 74616 and any additional allowances at 40 CFR 97.611(c)(5)*, as amended by 81 FR 74616.

(c) The existing unit budget is the difference between the total trading budget at 40 CFR 97.610(a)(2)(iv)*, as amended by 81 FR 74616, and the new unit set-aside at 40 CFR 97.610(a)(2)(v)*, as amended by 81 FR 74616.

*These documents are incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-7-2](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-7-3](#) CSAPR SO₂ group 1 allocation timing

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 3. The department shall allocate CSAPR SO₂ group 1 allowances according to the following schedule:

- (1) By June 1, 2018, the department shall submit to U.S. EPA the existing unit allowance allocations, in accordance with section 5 of this rule, for control periods in 2021 and 2022.
- (2) By June 1, 2019, and June 1 every two (2) years thereafter, the department shall submit to U.S. EPA

the existing unit allowance allocations in accordance with section 5 of this rule, for control periods four (4) and five (5) years after the applicable deadline for submission under this subdivision.

(3) By July 1, 2021, and July 1 of each year thereafter, the department shall submit to U.S. EPA the new unit set-aside allowance allocations, in accordance with section 6 of this rule, for the control period in the year of the applicable deadline for submission under this subdivision.

(4) By February 6, 2022, and February 6 of each year thereafter, the department shall submit to U.S. EPA the new unit set-aside allowance allocations in accordance with section 7 of this rule, for the control period in the previous year of the applicable deadline for submission under this subdivision.

(Air Pollution Control Division; [326 IAC 24-7-3](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-7-4](#) Baseline heat input and historic emissions

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 4. (a) For purposes of this rule, an existing unit is any unit with a baseline heat input, in MMBtu. Baseline heat input is determined as follows:

(1) If a unit commenced commercial operation prior to January 1, 2016, then the following applies:

(A) For an allowance allocation for control periods in 2021 and 2022 the baseline heat input is the average of the three (3) highest control period heat inputs in 2008 through 2015.

(B) For an allowance allocation for control periods in 2023 and 2024 and every two (2) control periods thereafter, the baseline heat input is the average of the three (3) highest, non-zero control period heat inputs in the eight (8) years before the allocation is calculated.

(C) If a unit has only two (2) non-zero heat inputs during the eight (8) years before the allocation is calculated, the baseline heat input is the average of those two (2) non-zero control period heat inputs.

(D) If a unit has only one (1) non-zero heat input during the eight (8) years before the allocation is calculated, the baseline heat input is that one (1) non-zero control period heat input.

(2) If a unit commenced commercial operation on or after January 1, 2016, and operates each control period during a period of three (3) or more consecutive calendar years, for an allowance allocation under section 3(2) of this rule, the baseline heat input is the average of the three (3) highest, non-zero control period heat input values for the years before the calculation of the allocation, not to exceed eight (8) control periods.

(b) For purposes of this rule, new units either:

(1) commenced operation on or after January 1, 2016, and do not have a baseline heat input; or

(2) did not receive allowances as determined under section 5(c) of this rule, and operated during the control period immediately preceding the year of allocation.

(c) The maximum historic emission cap is the maximum SO₂ emissions, in tons, that occurred during any control period of the historic emissions period. The historic emissions period is an eight (8) year history for each unit ending with the most recent year of the eight (8) years used for the determination of the heat input under subsection (a).

(d) A unit's control period heat input and a unit's total tons of SO₂ emissions during a control period under this section must be determined in accordance with 40 CFR 75*.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-7-4](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-7-5](#) Existing unit allocations and adjustments

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 5. (a) For each control period in 2021 and thereafter, the department shall allocate to all existing units that have a baseline heat input the total amount of allowances as listed in section 2(c) of this rule in accordance with this section.

(b) The initial allocation for an existing unit is the existing unit budget multiplied by the ratio of the baseline heat input of the unit to the total amount of baseline heat inputs of all CSAPR SO₂ group 1 units, rounded to the nearest whole allowance.

(c) A unit receives no allowances if the unit does not operate during the control period in two (2) consecutive years as follows:

(1) Allowances must not be allocated to the unit for the control period in the fifth year after the first year of not operating and in each year after the fifth year.

(2) If the unit resumes operation, the department must allocate allowances to the unit in accordance with the standards for new unit allocations until the unit has a baseline heat input.

(d) The allocation to each unit is the lesser of the following, plus any reapportioned allowances:

(1) Initial allocation under subsection (b).

(2) A cap on emissions pursuant to a federally enforceable judicial consent decree.

(3) Maximum historic emissions, as determined under section 4(c) of this rule.

(4) No allowances if the unit does not operate as described in subsection (c).

(e) All allowances remaining after the application of subsections (b) and (c) are reapportioned as follows, until the entire existing unit budget is allocated, with each resulting allocation value rounded to the nearest whole allowance:

(1) Remaining allowances are reapportioned to the remaining units whose initial allocation is not limited by subsection (d)(2) through (d)(4).

(2) Allocations are apportioned on the same basis as under subsection (b).

(3) These steps are repeated with each revised allocation distribution until the entire existing unit budget is allocated.

(f) By March 1 of each year existing unit allocations are made under this section, the department shall make the allowance allocations available for public review. The department may adjust each determination if appropriate or necessary to ensure that it is in accordance with this rule.

(Air Pollution Control Division; [326 IAC 24-7-5](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-7-6](#) New unit allocations

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 6. (a) For each control period in 2021 and thereafter, the department shall allocate to all new units, a total amount of allowances in the new unit set-aside as listed in section 2(b) of this rule.

(b) The department must determine for each new unit an allocation of allowances for the later of the following control periods and for each subsequent control period:

(1) The control period starting in 2021.

(2) The first full control period after the unit commences commercial operation.

(3) For a unit misallocated allowances under 40 CFR 97.611(c)*, as amended by 81 FR 74616, the first control period in which the unit operates in Indiana after operating in another jurisdiction and the unit must not already have been allocated one (1) or more allowances.

(4) For a unit that received no allowances as described in section 5(c) of this rule that resumes operation, the first full control period after the unit resumes operation.

(c) The allocation to each unit for each control period must be an amount equal to the unit's total tons of SO₂ emissions during the immediately preceding control period. The department may adjust the allocations as follows:

- (1) If the amount of allowances in the new unit set-aside for a control period is greater than or equal to the sum of the preceding control period emissions, then the department shall allocate the amount equal to the unit's total tons of SO₂ emissions during the immediately preceding control period.
- (2) If the amount of allowances in the new unit set-aside for a control period is less than the sum of the preceding control period emissions, then the department shall allocate to each unit an amount equal to the unit's tons of SO₂ emissions during the immediately preceding control period for the unit, multiplied by the amount of allowances in the new unit set-aside for the control period, divided by the sum of the preceding control period emissions, rounded to the nearest whole allowance.

(d) The department shall notify each CSAPR designated representative of the amount of allowances allocated under this section.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, IN 46204.

(Air Pollution Control Division; [326 IAC 24-7-6](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

[326 IAC 24-7-7](#) Unallocated new unit set-aside allowances

Authority: [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 13-15](#); [IC 13-17](#)

Sec. 7. (a) Unallocated allowances remaining in the new unit set-aside after completion of the procedures of section 6 of this rule, for a control period, shall be allocated first to new units as follows:

- (1) For each unit that commenced commercial operation during the period starting January 1 of the year before the year of the control period and ending November 30 of the year of the control period, the department shall determine the positive difference, if any, between the unit's emissions during the control period and the amount of allowances awarded for the unit for the control period.
- (2) The department shall determine the sum of the positive differences determined under subdivision (1) and then proceed as follows:
 - (A) If the amount of unallocated allowances remaining in the new unit set-aside for a control period is greater than or equal to the sum determined under this subdivision, then the department must allocate the amount of allowances determined for each unit under subdivision (1).
 - (B) If the amount of unallocated allowances remaining in the new unit set-aside for a control period is less than the sum under this subdivision, then the department must allocate to each unit under the following formula, rounded to the nearest whole allowance:

$$\text{Unit Allowance} = ((E-A) \times \text{RNUSA}) / \text{Sum}$$

Where: Unit allowance is the total allowances allocated to the unit.
E is the unit's emissions during the control period.
A is the amount of allowances awarded for the unit for the control period.
RNUSA is the remaining allowances in the new unit set-aside.
Sum is the total amount of allocations under this subdivision.

(b) After completion of the procedures under subsection (a) for a control period, if any unallocated allowances remain in the new unit set-aside for the control period, the department shall allocate to each existing unit that was allocated allowances under section 5 of this rule, an amount of allowances under the following formula:

$$\text{Unit allowance} = (\text{UA} \times \text{EUA}) / \text{EUB}$$

Where: Unit allowance is the total allowances allocated to the unit.
UA is the total amount of the remaining unallocated allowances in the new unit set-aside.
EUA is the unit's allocation under section 5 of this rule for the control period.

EUB is the existing unit budget, as listed in section 2(c) of this rule, for the control period, rounded to the nearest whole allowance.

(c) The department shall notify each CSAPR designated representative of the amount of allowances allocated under this section.

(Air Pollution Control Division; [326 IAC 24-7-7](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

SECTION 6. [326 IAC 26-1-5](#) IS AMENDED TO READ AS FOLLOWS:

[326 IAC 26-1-5](#) Cross-State Air Pollution Rule (CSAPR) participation by electric generating units

Authority: [IC 4-22-2-21](#); [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#)

Affected: [IC 4-22-9-5](#); [IC 13-15](#); [IC 13-17](#)

Sec. 5. Participation by electric generating units in the CAIR cap and trade program shall satisfy Cross-State Air Pollution Rule (CSAPR) trading programs under [326 IAC 24](#) or 40 CFR 97 satisfies the sulfur dioxide (SO₂) and oxides of nitrogen (NO_x) requirements of this rule.

(Air Pollution Control Division; [326 IAC 26-1-5](#); filed Jan 23, 2008, 1:37 p.m.: [20080220-IR-326060208FRA](#); filed Oct 25, 2017, 1:02 p.m.: [20171122-IR-326160209FRA](#))

SECTION 7. THE FOLLOWING ARE REPEALED: [326 IAC 24-1](#); [326 IAC 24-2](#); [326 IAC 24-3-3](#); [326 IAC 24-3-5](#); [326 IAC 24-3-6](#); [326 IAC 24-3-7](#); [326 IAC 24-3-8](#); [326 IAC 24-3-9](#); [326 IAC 24-3-10](#); [326 IAC 24-3-12](#).

LSA Document #16-209(F)

Proposed Rule: [20170503-IR-326160209PRA](#)

Hearing Held: July 12, 2017

Approved by Attorney General: October 12, 2017

Approved by Governor: October 24, 2017

Filed with Publisher: October 25, 2017, 1:02 p.m.

Documents Incorporated by Reference: Cross-State Air Pollution Rule Update for the 2008 Ozone NAAQS, 81 FR 74504-74650 (October 26, 2016)

Small Business Regulatory Coordinator: Angela Taylor, IDEM Small Business Regulatory Coordinator/CTAP

Small Business Liaison, IGCN 1316, 100 North Senate Avenue, Indianapolis, IN 46204-2251, (317) 233-0572 or (800) 988-7901, ctap@idem.in.gov

Small Business Assistance Program Ombudsman: Brian Rockensuess, IDEM Small Business Assistance Program Ombudsman/Office of Government and Community Affairs, IGCN 1301, 100 North Senate Avenue, Indianapolis, IN 46204-2251, (317) 234-3386 or (800) 451-6027, brockens@idem.in.gov

Posted: 11/22/2017 by Legislative Services Agency

An [html](#) version of this document.

Attachment C

Public Participation Process Documentation

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LEGAL NOTICE OF PUBLIC HEARING

Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2))

Note: Legal notices for public hearings are no longer published in newspapers, but can be found on the Indiana Department of Environmental Management's web site at:
<http://www.in.gov/idem/6777.htm>.

Notice is hereby given under 40 Code of Federal Regulations (CFR) 51.102 that the Indiana Department of Environmental Management (IDEM) is accepting written comments and providing an opportunity for public hearing regarding the *Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2))*. All interested persons are invited and will be given reasonable opportunity to express their views concerning the submittal.

The purpose of this notice is to solicit public comments on Indiana's Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2)) submittal. This revision provides supplemental information to the Infrastructure State Implementation Plan (Sections 110 (a)(1) and (a)(2)) for the 2008 8-hour ozone National Ambient Air Quality Standard that was submitted to United States Environmental Protection Agency on December 12, 2011 and partially approved on April 16, 2015. This additional information fulfills the requirements for Section 110(a)(2)(D)(i)(I) providing for a complete remedy of Clean Air Act interstate transport provision requirements.

Copies of the draft documents will be available on or before February 12, 2018, to any person upon request at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate Avenue, N1003, Indianapolis, Indiana.
- Indianapolis-Marion County Public Library-West Indianapolis Branch, 1216 South Kappes Street, Indianapolis, Indiana

The draft documents will also be available on the following web page:

<http://www.in.gov/idem/airquality/2406.htm>

Any person may submit written comments on *Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the*

Interstate Transport “Good Neighbor” Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2)) on or before March 26, 2018. Written comments should be directed to Ms. Leslie Ferguson, Office of Air Quality, N1003, Indiana Department of Environmental Management, 100 North Senate Avenue, Indianapolis, Indiana 46204; or fax (317) 233-5967; or email at lferguso@idem.in.gov. Interested parties may also present oral or written comments at the public hearing, if held. Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

A public hearing on the *Revisions to Indiana’s Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport “Good Neighbor” Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2))* will be held if a public hearing request is received by March 14, 2018. If a hearing is requested, the hearing will be held on March 21, 2018. The hearing will convene at 6 p.m. local time at the Indianapolis-Marion County Public Library-West Indianapolis Branch, 1216 South Kappes Street, Indianapolis, Indiana, 46221. If a request for a public hearing is not received by March 14, 2018, the hearing will be cancelled. Interested parties can check the online IDEM calendar at <http://www.in.gov/activecalendar/EventList.aspx> or contact Ms. Leslie Ferguson at lferguso@idem.in.gov or (317) 233-1179, after March 14, 2018, to see if the hearing has been cancelled or will convene.

If a hearing is held, afterwards, a transcript of the hearing and all written submissions provided at the public hearing shall be open to public inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing.

For additional information contact Ms. Leslie Ferguson, at the Indiana Department of Environmental Management, Office of Air Quality, Room N1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis, IN 46204 or call (317) 233-1179 or (800) 451-6027 ext. 3-1179 (in Indiana).

.....
Speech and hearing impaired callers may contact the agency via the Indiana Relay Service at 1-800-743-3333. Individuals requiring reasonable accommodations for participation in this hearing, if held, should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:

Attn: ADA Coordinator
Indiana Department of Environmental Management – Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

*Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD).
Please provide a minimum of 72 hours notification.*

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Bruno Pigott
Commissioner

February 2, 2018

CERTIFICATE OF PUBLICATION

This is to certify that the Indiana Department of Environmental Management (IDEM) Notice of the opportunity for a Public Hearing regarding the following:

- Draft Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2))

was published on IDEM's web site on February 2, 2018. The notice and documents will remain posted until at least March 14, 2016.

The notice in full was available online at the following web address, under "Statewide".
<http://www.in.gov/idem/6777.htm>

and the draft documents were made available the same day at the following web address:
<http://www.in.gov/idem/airquality/2406.htm>

Web publication of the notice was at the request of Scott Deloney, Branch Chief, Programs Branch, Office of Air Quality, IDEM.

By:

Mike Finklestein
IDEM Webmaster

Attachments:
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Public Notice Site for notices covering the entire State of Indiana. This page is designed to provide public access to all agency state- notices as required by statute or rule including: permitting, rulemaking, meeting and hearing notices. Click highlighted links to view information related to the notice. Unless otherwise noted, contact information is included on the notices.

[Public Meetings and Events Calendar](#) provides information on public meetings that do not require public notice.

Want to know about new notices as soon as they're posted? You can now subscribe to this regional public notice page. By subscribing you will be sent an e-mail or text message to your phone every time IDEM adds information to this regional page. This allows you to stay posting and never miss a new posting. To subscribe, click on the subscription link in the left hand column.

Public Notices: Statewide

Name or Facility	Type of Notice/Event	Publication Dates	Public Comment?	Additional Information
Draft Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a) (1) and (a)(2))	Legal Notice and Opportunity for Public Hearing [PDF]	02/12/2018 - 03/14/2018	Yes	Project Manager: Leslie Ferguson Additional information is available on the IDEM Air Quality in Indiana: Redesignations and Maintenance Plans - Statewide
2017 Programmatic General Permit	Section 401 Water Quality Certification [PDF]	01/26/2018 - 02/16/2018	Yes	Project Manager: Heather Parsons Applicant Company: U.S. Army Corps of Engineers
Draft Technical Support Document and Budget Demonstration for Nitrogen Oxides (NOx) Emissions from Large Non-Electric Generating Units and Repeal of NOx Budget and Clean Air Interstate Rule (CAIR) Ozone Season Trading Program	Legal Notice and Opportunity for Public Hearing [PDF]	02/07/2018 - 03/09/2018	Yes	Project Manager: Jean Boling Additional information is available on the IDEM Air Quality in Indiana: CAIR and CSAPR page
Environmental Rules Board Meeting 01/10/2018	Legal Notice of Public	11/17/2017 -	No	

Date and Time

Date and Time

Additional Clocks

Date:
Friday, February 02, 2018

Time:
11:54:14 AM

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http://www.in.gov/airquality/2406.htm

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Outdoor Hydronic Heaters

June 10, 2016

- 2018 Approval and Promulgation of 2012 Annual Fine Particles (PM2.5) Infrastructure (Section 110(a)(1) and Section 110(a)(2)) State Implementation Plan Submittal [PDF]
- 2018 Approval and Promulgation of 2012 Annual Primary Fine Particulate Matter (PM2.5) Infrastructure (Section 110(a)(1) and 110(a)(2)) State Implementation Plan Submittal: 2012 Annual Primary Fine Particulate Matter (PM2.5) National Ambient Air Quality Standards (NAAQS) [PDF]

Sulfur Dioxide (SO2) and Nitrogen Dioxide (NO2) NAAQS

2013

- 2013 Approval and Promulgation of 2010 1-Hour Sulfur Dioxide (SO2) Infrastructure (Section 110(a)(1) and 110(a)(2) State Implementation Plan Submittal: 2010 1-Hour Sulfur Dioxide (SO2) National Ambient Air Quality Standards (NAAQS) [PDF]
- 2013 Approval and Promulgation of 2010 1-Hour Nitrogen Dioxide (NO2) Infrastructure (Section 110(a)(1) and 110(a)(2) State Implementation Plan Submittal: 2010 1-Hour Nitrogen Dioxide (NO2) National Ambient Air Quality Standards (NAAQS) [PDF]

2008 Lead and Ozone NAAQS

December 12, 2011

- Draft Revisions to Indiana's Infrastructure State Implementation Plan to Provide Supplemental Information for the Interstate Transport "Good Neighbor" Provision for the 2008 8-Hour Ozone National Ambient Air Quality Standard (Sections 110 (a)(1) and (a)(2) [PDF]
- 2015 Approval and Promulgation of 2008 8-Hour Ozone (O3) Infrastructure (Section 110(a)(1) and 110(a)(2) State Implementation Plan Submittal [PDF]
- 2014 Approval and Promulgation of 2008 Annual Lead (Pb) Infrastructure (Section 110(a)(1) and 110(a)(2) State Implementation Plan Submittal [PDF]
- Indiana Infrastructure (Section 110(a)(1) and 110(a)(2)) State Implementation Plan Submittal: 2008 8-Hour Ozone (O3) and 2008 Annual Lead (Pb) National Ambient Air Quality Standards (NAAQS) [PDF]


2006 Fine Particles NAAQS

October 20, 2009

- 2014 Approval and Promulgation of 2006 24-Hour Fine Particles (PM2.5) Infrastructure (Section 110(a)(1) and 110(a)(2)) State Implementation Plan Submittal [PDF]

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Date and Time Additional Clocks



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From: Mitchell, Mike
Sent: Friday, February 2, 2018 11:57 AM
To: Finkelstein, Mike
Subject: C

Hi Mike,

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