Level II, Air Quality Quantitative Assessment, Insignificance Criteria

HQ AFCEC/CZTQ; Air Quality
Compliance Technical Support Branch

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1 Executive Summary

A USAF Cross-Media Technical Review Team formally established air quality impact insignificance criteria for an Air Quality EIAP Level II, Quantitative Assessment. An Air Quality EIAP Level II, Quantitative Assessment, is an insignificance assessment which can only determine if an action poses an insignificant impact on air quality (only a Level III, Advanced Assessment, can define significant impacts). Therefore, Level II insignificance criteria only identify clearly insignificant impacts (i.e., annual net change emissions are less than the criteria) or flags potentially significant impacts (i.e., annual net change emissions are greater than or equal to the criteria) that must be addressed with a further and more advanced assessment. These criteria are (see *Table 1, Air Quality EIAP Insignificance indicators*, and *Figure 1, Attainment Insignificance Indicator Selection*, and *Figure 2, Attainment Area Insignificance Flow Chart*, for details on indicator selection and usage):

- **All Nonattainment or Maintenance Areas:**
  - ***First and Only level Indicators, General Conformity De Minimis Values:*** The General Conformity Rule (40 CFR 93 Subpart B) has already formally established de minimis (insignificant) values that must be used as insignificance criteria for actions that will occur within nonattainment or maintenance areas. Therefore, these de minims values are the first-level (and only level) insignificant indicators in all nonattainment and maintenance areas.

- **Near Nonattainment Areas:** Areas where the current ambient air quality is within five percent (5%) of any National Ambient Air Quality Standards (NAAQSs) are considered near nonattainment.
  - ***First- and Only-Level Indicators, General Conformity Maintenance Area De Minimis Values:*** The General Conformity maintenance area de minimis values of 25 ton/yr for lead and 100 tons per year (ton/yr) for all other criteria pollutants are the first-level (and only level) insignificant indicators for all attainment areas.
    - A short-term impact (i.e., worst case year net change emissions), clearly insignificant, indicator for all near nonattainment (within 5% of any NAAQS or ≥95% of NAAQS) areas.
    - A conservative, long-term impact (i.e., steady state annual net change emissions after action), indicator for all near nonattainment areas.
      - Used when short-term net change in emissions exceeds the first-level de minimis values.
      - Demonstrates only a short-term potential impact that overall results in an insignificant impact.

- **Clearly Attainment Areas:** Areas where the current ambient air is definitively (clearly) not nearing noncompliance with any NAAQSs (≤ 95% of any NAAQS) are considered clearly attainment.
  - ***First-Level Indicators, General Conformity maintenance area de minimis values:*** The General Conformity maintenance area de minimis values (25 ton/yr for lead and 100 ton/yr for all other criteria pollutants) can be used as a very

conservative first-level (and only level for lead) screening insignificant indicators for all areas clearly in attainment areas.

- As a screening Indicator, the de minimis values can identify actions that are clearly insignificant:
  - A very conservative short-term (i.e., worst case year net change emissions) clearly insignificant indicator in all areas clearly in attainment.
  - A very conservative long-term (i.e., steady state annual net change emissions after action) indicator in all clearly in attainment areas.
    - Used when net change in emissions exceed the first-level de minimis values.
    - Demonstrates only a short-term potential impact that, overall, results in an insignificant impact.

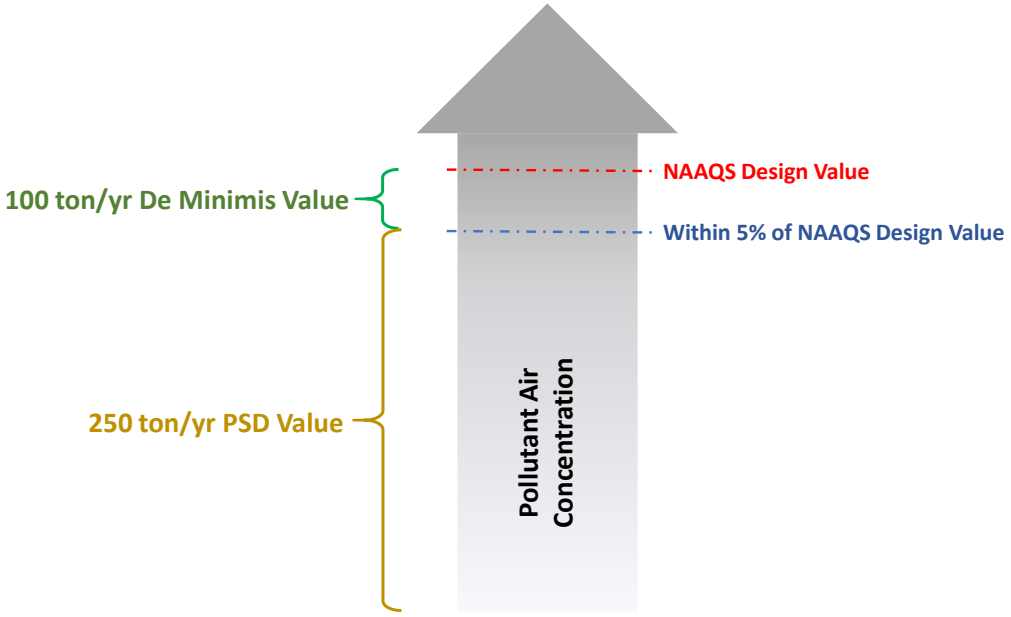
Table 1, Air Quality EIAP Insignificance indicators

Criteria Pollutant	Pollutant of Concern	Area Classification (attainment Status)	First-Level Indicators (ton/yr)	Second-Level Indicators
O_3	O_3 precursors (VOC or NOx)	Nonattainment	10 to 100 depending on severity of nonattainment	None
		Near Nonattainment	100	None
		Clearly Attainment	100	250
CO, SO_2, or NOx	CO, SO_2, NO_2	Nonattainment	100	None
		Near Nonattainment	100	None
		Clearly Attainment	100	250
PM10	PM10	Nonattainment	70 to 100 depending on severity of nonattainment	None
		Near Nonattainment	100	None
		Clearly Attainment	100	250
PM2.5	PM2.5 and potentially its precursors (SO_2, NOx, VOC, NH_3)	Nonattainment	100	None
		Near Nonattainment	100	None
		Clearly Attainment	100	250
Pb	Pb	Nonattainment	25	None
		Near Nonattainment	25	None
		Clearly Attainment	25	None

Note that the "Clearly Attainment" insignificance indicators (25 ton/yr for lead and 100 ton/yr all other pollutants of concern) can be used as a very conservative initial screening value for all area classifications (i.e., attainment statuses).

Figure 1, Attainment Insignificance Indicator Selection

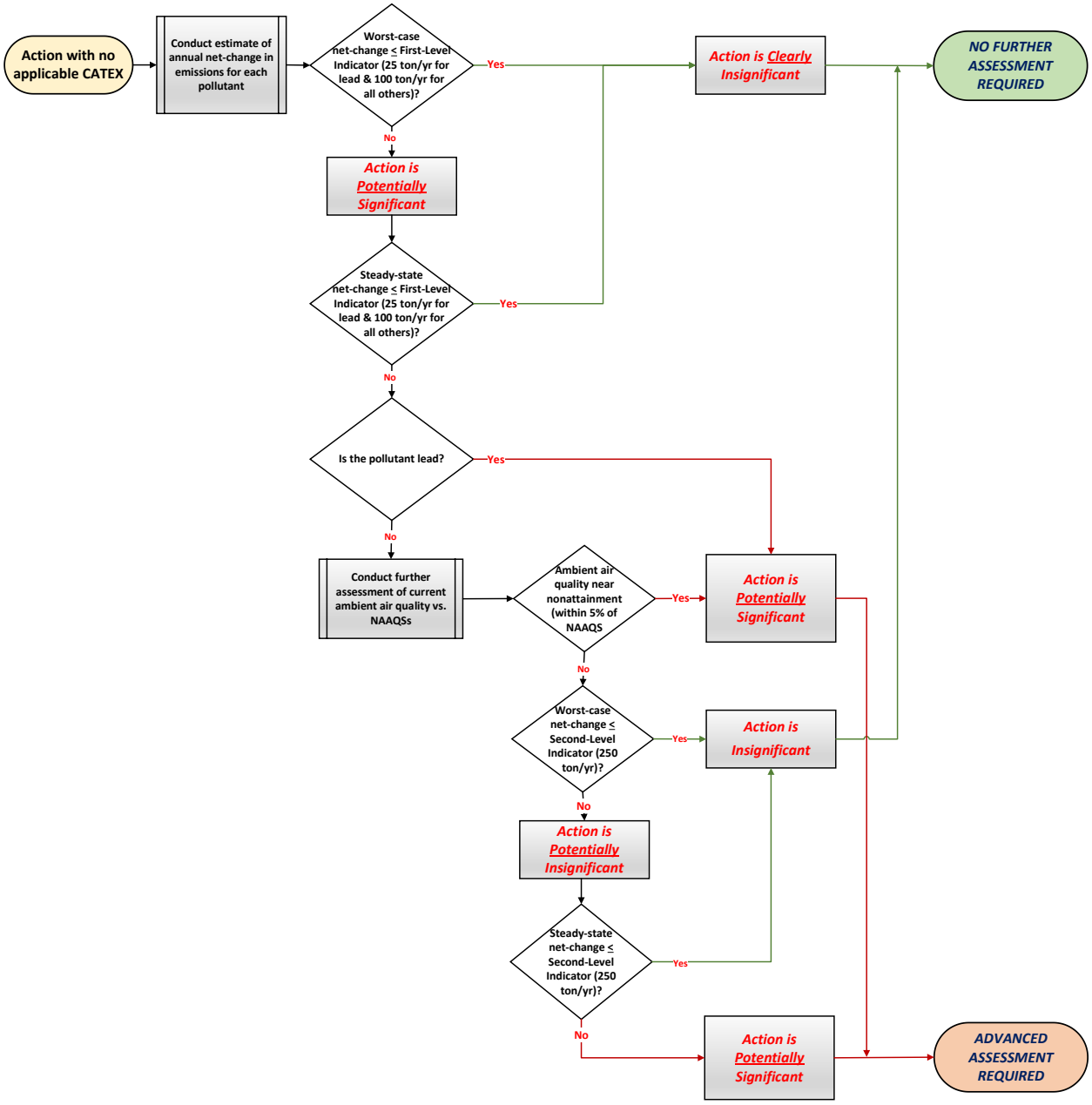
(for all criteria pollutants except lead)



- ***Second-Level Indicator, Prevention of Significant Deterioration (PSD) 250 ton/yr threshold*** is the second-level significant/insignificant indicator for all definitive (clearly) attainment areas:
  - Does NOT apply to lead, due to high toxicity, use 25 ton/yr first-level indicator only.
  - Use of the PSD threshold as an insignificance indicator in near nonattainment areas is NOT TECHNICALLY SOUND because it could result in exacerbating air-related health issues and may cause or contribute to a new violation of a NAAQS.
  - The PSD 250 ton/yr threshold can identify actions that are insignificant
    - Provides a short-term (i.e., worst case year net change emissions) indicator for all documented clearly (definitive) attainment areas
    - Provides a long-term (i.e., steady state annual net change emissions after action) indicator in all documented clearly (definitive) attainment areas:
      - Used when short-term net change in emissions (except for lead) exceed the second-level PSD value.
      - Demonstrates only a short-term potential impact that overall results in an insignificant impact.

NOTE: Only these established insignificance criteria (or indicators) are to be used for an Air Quality EIAP Level II, Quantitative Assessment; any other insignificance or significance criteria will be considered technically inadequate.

Figure 2, Attainment Area Insignificance Flow Chart



2 Pollutants of Concern

There are a variety of air pollutants associated with USAF actions that can potentially have an impact on the environment. The air pollutants of potential concern include Criteria Pollutants, Hazardous Air Pollutants (HAPs), and Greenhouse Gases (GHGs).

2.1 Criteria Pollutants

Criteria pollutants are the primary pollutants of concern relating to USAF actions. All USAF actions must be evaluated in a net-change inventory assessment for the potential impacts for each criteria pollutant. Based on health concerns, the EPA set Primary NAAQSs for six principal pollutants (known as criteria pollutants): carbon monoxide (CO), nitrogen dioxide (NO_2), ozone (O_3), particulate matter (PM), sulfur dioxide (SO_2), and lead (Pb).

- CO is a colorless, odorless, tasteless gas that is a product of incomplete combustion of organic materials. In the ambient environment, it may temporarily accumulate into localized “hot-spots”, especially in calm weather conditions and in the wintertime when CO forms easily and is chemically most stable. In humans, CO can be absorbed by the lungs and react with hemoglobin to reduce the oxygen-carrying capacity of the blood. At elevated concentrations CO can have cardiovascular and central nervous system effects.

- Pb is a heavy metal that occurs in the atmosphere as lead oxide aerosol or lead dust. Lead is most commonly associated with emissions from industrial sources including incineration, steel production, smelting, and battery manufacturing. Lead is a highly stable compound that accumulates in the environment and in living organisms. In humans, Pb exposures can interfere with the maturation and development of red blood cells, affect liver and kidney functions, and cause nervous system damage.

- NO2 is a reddish-brown to dark brown gas with an irritating odor. NO2, nitric oxide (NO), and the nitrate radical (NO3) are collectively called oxides of nitrogen (NOx). These three compounds are interrelated, often changing from one form to another in chemical reactions. The principal man-made source of NOx is fuel combustion in motor vehicles and power plants with aircraft also contributing. NO2 emissions from these sources are highest during high-temperature combustion conditions. Reactions of NOx with other chemicals (such as VOCs) can lead to O3 formation and acidic precipitation. Additionally, secondary PM can be formed within the atmosphere from precursor gases, such as NOx, through gas-phase photochemical reactions or through liquid phase reactions in clouds and fog droplets. In humans, NO2 can be a lung irritant capable of producing pulmonary edema at high concentrations and can lead to other respiratory illnesses such as bronchitis and pneumonia.

- O_3 occurs both in the earth's upper atmosphere and at ground level. Tropospheric, or ground level O_3, is not emitted directly into the air, but is a result of VOCs and NOx reacting in the presence of sunlight in the atmosphere. VOCs and NOx are termed "ozone precursors" and their emissions are regulated in order to control the creation of O_3. VOCs, which are a subset of hydrocarbons (HC), are released in industrial processes,

mobile sources and from the evaporation of gasoline, solvents and other hydrocarbon-based compounds. In humans, O_3 is a pulmonary irritant that affects the respiratory mucous membranes, other lung tissues, and respiratory functions. Exposure to O_3 at high concentrations can result in symptoms such as tightness in the chest, coughing, and wheezing, and can trigger an attack or exacerbate the symptoms of asthma, bronchitis, and emphysema.

- PM is small solid particles and liquid droplets suspended or settling out of the atmosphere. PM consists of a number of components, including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. PM can be formed from both natural and man-made sources including forest fires and wind erosion over exposed soils (i.e., fugitive dust); the incineration of solid wastes; and as an exhaust product from the internal combustion engine. Of growing concerns are the effects of PM on visibility and the potential impairment to human health by small PM. The regulatory standards for PM are segregated by sizes: less than or equal to 10 micrometers (denoted PM10) and less than or equal to 2.5 micrometers (denoted PM2.5). PM10 and PM2.5 are considered a health risk in humans because of their ability to penetrate into the human respiratory system.

- SO_2 is a colorless gas also with a strong characteristic odor. SO2 is emitted into the atmosphere by both natural processes and by man-made sources such as the combustion of sulfur-containing fuels and sulfuric acid manufacturing. When combined with other substances in the air, SO_2 can precipitate out as "acid rain". Sulfate particles are a major cause of reduced visibility in many areas of the U.S. In humans, the inhalation of elevated concentrations of SO_2 can cause irritation of the mucous membranes, bronchial damage, and can exacerbate pre-existing respiratory diseases such as asthma, bronchitis, and emphysema.

2.2 Hazardous Air Pollutants (HAPs)

HAPs are only secondary pollutants of concern relating to USAF actions. Currently there are no federal regulations specifically pertaining to HAPs emissions from aircraft engines or air bases. While a net-change inventory assessment is useful for disclosure, reporting, and comparative purposes, it does not provide results that are directly comparable to any regulatory or enforceable ambient air quality standards or emission thresholds. Generally, a HAPs net-change inventory assessment is only required when specifically required by the state.

HAPs, also known as "air toxics", are pollutants for which there are no NAAQS, but are still regulated under the federal CAA because of their potentially adverse effects on human health and the environment. HAPs are comprised of a wide range of organic and inorganic compounds. HAP emissions are present in the exhaust of aircraft, APUs, GSE, motor vehicle engines, stationary engines, boilers, fuel facilities, and other stationary sources.

2.3 Greenhouse Gases (GHGs)

GHGs are also only secondary pollutants of concern relating to USAF actions. GHGs are emitted principally from the combustion of fossil fuels and decomposition of waste materials and are linked to the "greenhouse effect" which is attributed to the gradual increase in the earth's average temperature. The six main GHGs whose emissions are related to human are carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases such as hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride (SF_6), which are reported as carbon dioxide equivalents (CO_{2e}).

GHG emissions associated with USAF actions are principally in the form of CO_2 and are generated by aircraft, APUs, GSE, motor vehicles, boilers, and an assortment of stationary sources. Most of the CO_2 emissions from these sources result from the combustion of fossil fuels and are emitted as by-products contained in the engine or stack exhausts.

While a GHG net-change inventory assessment is useful for disclosure, reporting, and comparative purposes, it does not provide results that are directly comparable to any regulatory or enforceable ambient air quality standards or emission thresholds.

3 Quantitative Assessment Insignificance Criteria

The USAF Cross-Media Technical Review Team, led by the USAF's Air Quality Subject Matter Expert, convened on 12 December 2019 to formally establish technically sound air quality impact insignificance criteria for an Air Quality EIAP Level II, Quantitative Assessment. The Cross-Media Technical Review Team consisted of air quality technical and legal experts which included representatives from: the AQ SME (AFCEC/CZTQ), HQ Civil Engineers (HAF/A4C), Environmental Law and Litigation Division (AFLOA/JACE), HQ AFRC (AQAF/A4CA), AFIT (AETC AFIT/CEV), REOs (AFCEC/CZPW and AFCEC/CZPE), all ISSs (AFCEC/CZO), and the NEPA Cell (AFCEC/CZN). The team established scientifically sound insignificance criteria based on the CEQ's inherent concepts of the Rule of Reason and the Concept of Proportionality. Under the Rule of Reason, the positive features of an action are compared against its negative effects in order to decide whether or not the action should be prohibited. Under the Concept of Proportionality, the extent of the analysis should be proportional with the quantity of projected impact (e.g., amount of air or noise emissions).

The team's established insignificance criteria were presented to the EPA's Office of Air Quality Planning and Standards on 16 December 2019 whom verified and validated the established insignificance criteria were technically sound. This section provides the USAF's definitive significance criteria and an overview of the basis establishing these significance criteria.

3.1 Air Quality Significance

For air quality impact assessments, significance is defined by the degree to which the effects of proposed action potentially could affect public health or safety. The EPA developed Primary National Ambient Air Quality Standards (NAAQSs) to provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. Specifically, the EPA set Primary NAAQSs for six principal pollutants (known as criteria pollutants): carbon monoxide (CO), nitrogen dioxide (NO_2), ozone (O_3), particulate matter (PM), sulfur dioxide (SO_2), and lead (Pb). As a result, Air quality impact significance is defined by an action's potential to cause or contribute to a new violation of one or more of these NAAQSs. In other words:

- ***Insignificant*** *= Action does not cause or contribute to exceeding one or more NAAQSs*
- ***Significant*** *= Action does cause or contribute to exceeding one or more NAAQSs*

Under NEPA, establishing significance (or insignificance) requires consideration of both <u>context</u> and <u>intensity</u> (40 CFR 1508.27)**;** therefore, air quality impact significance must be established by considering both context and intensity.

- **Context** is the surroundings, circumstances, environment, and background of an action which provides the setting for evaluating the intensity of the impact significance. The context of an action is the local area's ambient air quality relative to meeting the NAAQSs as attainment, nonattainment, or maintenance areas (this designation is

considered the attainment status). See 3.1.1 below for an in-depth overview and discussion of the context of an action's significance.

- **Intensity** is the quantified magnitude of impact severity. Air quality impact intensity is the calculated magnitude of impact severity to which the long- and short-term effects of a proposed action could potentially affect public health or safety. The degree of impact severity is measured by quantifying the projected annual net change in criteria pollutant emission against established significance criteria. See 3.1.2 below for an in-depth overview and discussion of the intensity of an action's significance.

As discussed above, the USAF Cross-Media Technical Review Team, led by the USAF's Air Quality Subject Matter Expert, formally established technically sound air quality impact insignificance criteria. The framework (i.e., context) for selecting and utilizing the proper insignificance criteria is based on the current attainment status. The attainment status (clearly attainment, near attainment, nonattainment, or maintenance) provides the context for properly using the established air quality impact insignificance criteria in an Air Quality EIAP Level II, Quantitative Assessment.

3.1.1 Significance Context Discussion

Air quality, in the context of the current ambient air quality, is defined relative to established health standards. Under the Clean Air Act (CAA), the EPA set primary NAAQSs (40 CFR 50) for six criteria pollutants (CO, NO_2, O_3, PM, SO_2, and Pb) considered harmful to public health and the environment. The primary NAAQSs, as a health standard, set the baseline context for assessing which air quality impacts pose a potential significant impact.

Table 2, Current NAAQSs

(EPA 2020)

Criteria Pollutant		Averaging Time	Primary NAAQS
Carbon Monoxide (CO)		8 hours	9 ppm
		1 hour	35 ppm
Lead (Pb)		Rolling 3 month average	0.15 µg/m3
Nitrogen Dioxide (NO_2)		1 hour	100 ppb
		1 year	53 ppb
Ozone (O_3)		8 hours	0.070 ppm
Particle Pollution (PM)*	$PM_{2.5}$	1 year	12.0 µg/m3
		24 hours	35 µg/m3
	PM_{10}	24 hours	150 µg/m3
Sulfur Dioxide (SO_2)		1 hour	75 ppb

* PM_{10} = particles $\leq$ 10 micrometers, $PM_{2.5}$ = particles $\leq$ 2.5 micrometers

Periodically, the NAAQSs are reviewed by the EPA and may be revised if deemed inadequate to protect human health and the environment. The current NAAQSs are listed in the table below (see *Table 2, Current NAAQSs*). Units of measure for the NAAQSs are parts per million (ppm) by volume, parts per billion (ppb) by volume, and micrograms per cubic meter of air ($\mu g/m^3$). Any ambient (i.e., local outdoors) air concentration at or above any of these NAAQSs is considered harmful to public health and the environment.

Ambient air quality is monitored by the EPA in terms of criteria pollutant concentrations and their temporal and spatial distribution. Based on the monitoring data for these criteria pollutants, the local area's ambient air quality is classified in the context with meeting the NAAQSs as attainment, nonattainment, or maintenance areas (this designation is considered the attainment status). These area classifications define the baseline context of a localized area:

- **Attainment:** Localized areas where the ambient air quality meets all NAAQSs are classified as attainment areas. However, the EPA believes that an air quality design value below 85% of any NAAQS could be considered significantly below the standard because the air quality is not likely to deteriorate to a level that would violate the NAAQS. For evaluating significance, attainment areas must further be subdivided into two contexts:
    - **Definitely Attainment:** According to the EPA, ambient air quality below 85% of a NAAQS could be considered significantly (or definitively) below the standard.
    - **Questionably Attainment:** Applying EPA's logic inversely, it makes sense that ambient air quality within 15% of a NAAQS could be considered questionably below the standard.
- **Nonattainment:** Localized areas where the ambient air quality clearly does not meet one or more NAAQSs are classified as nonattainment areas. Nonattainment areas are further classified based on their severity or the degree of exceeding a NAAQS.
- **Maintenance:** Localized areas that have recently achieved attainment for one or more NAAQS and have an approved maintenance plan are classified as maintenance areas. Therefore, maintenance areas are attainment areas that are in effect questionable attainment areas that are near nonattainment.

Therefore, for EIAP assessment, **air quality impact is evaluated in the context of the local area's current ambient air quality as defined by the area's attainment status**:

- **Clearly Attainment** (definitively in attainment, less than 85% of any NAAQS).
- **Questionably Attainment** (within 15% of any NAAQS).
- **Nonattainment, including severity** (does not meet one or more NAAQSs).
- **Maintenance** (recently met NAAQSs; therefore, are generally near nonattainment).

3.1.2 Significance Intensity Discussion

Air quality impact intensity is the quantified magnitude of impact severity or the degree to which the long- and short-term effects of proposed action potentially could affect public health or safety.

3.1.2.1 Nonattainment or Maintenance Area Context

All actions that will occur within a nonattainment or maintenance area must meet the requirements of the General Conformity Rule before the action can take place. The General Conformity Rule was established to ensure that federal actions conform to the State's air quality plans for an area to attain and maintain the NAAQSs. A General Conformity Assessment is a progressive two phased assessment:

- **Applicability Analysis:** A quantified net-change in emissions analysis (i.e., measure of intensity) to determine if an action is insignificant or potentially significant.

- **Determination:** An in-depth assessment (only performed if identified as potentially significant in the Applicability Analysis) to definitively verify a significant impact.

3.1.2.1.1 Applicability Analysis

An Applicability Analysis is performed in an Air Quality EIAP Level II, Quantitative Assessment. An Applicability Analysis is a quantified net-change in emissions analysis (i.e., measure of intensity) to determine if an action is insignificant or potentially significant.

In promulgating the General Conformity Rule, the EPA recognized that the many federal agencies take thousands of actions every day, most of which do not result in significant increases in emissions. Therefore, EPA promulgated de minimis emissions levels for each of the NAAQS pollutants for which increases net emissions are too insignificant to affect public health or safety. If the total annual net change direct and indirect emissions from an action are below the de minimis levels, the action is considered insignificant (too trivial or minor) to merit consideration of adverse impacts to health or safety. Therefore, by EPA's definition, the General Conformity de minimis values (see *Table 3, General Conformity De Minimis Values*) are definitive insignificance indicators or thresholds of an action based on the annual net-change in emissions.

Table 3, General Conformity De Minimis Values

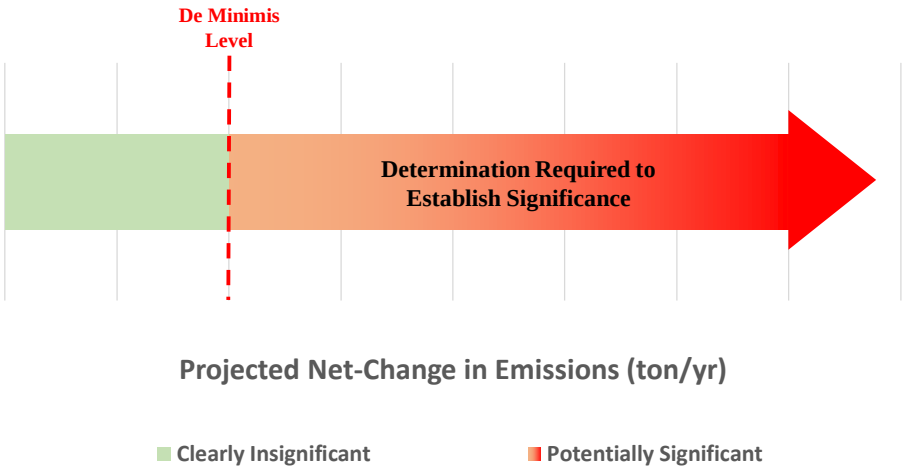
Criteria Pollutant	Area Classification (attainment Status)	Pollutant of Interest	Ozone Transport Region	Gen. Conformity De Minimis Level (tons/yr)
Ozone	Extreme nonattainment	VOC or oxides of nitrogen (NOx)	NA	10
	Severe nonattainment	VOC or NOx	NA	25
	Serious nonattainment	VOC or NOx	NA	50
	Other nonattainment	VOC or NOx	Outside	100
	Other nonattainment	VOC	Inside	50
	Other nonattainment	NOx	Inside	100
	Maintenance	NOx	NA	100
	Maintenance	VOC	Inside	50
	Maintenance	VOC	Outside	100
CO, SO_2, NO_2	Nonattainment	CO, SO2, NO2	NA	100
	Maintenance	CO, SO2, NO2	NA	100
PM_{10}	Serious nonattainment	PM10	NA	70
	Moderate nonattainment	PM10	NA	100
	Maintenance	PM10	NA	100
$PM_{2.5}$	Nonattainment or maintenance	$PM_{2.5}$ Direct emissions	NA	100
	Nonattainment or maintenance	SO_2	NA	100
	Nonattainment or maintenance	NO_x [(c)]	NA	100
	Nonattainment or maintenance	VOC or Ammonia (NH_3) [(d)]	NA	100
Pb	Nonattainment	Pb	NA	25
	Maintenance	Pb	NA	25

Source: 40 CFR 93.153(b)(1) and (2).

The General Conformity de minimis values provide a definitive go/no-go first-level criterion for air quality impact significance for General Conformity Applicability Analyses:

- Below De Minimis = Clearly (Definitively) Insignificant Impact and
- At or Above De Minimis = Potentially Significant Impact (enough to warrant a Determination).

Figure 3, General Conformity Applicability Analyses Impact Significance



For example: A Carbon monoxide (CO) maintenance area has a CO de minimis value of 100 ton/yr. Therefore, any action with an annual net change in CO less than 100 ton/yr would be considered clearly insignificant for the specified pollutant. However, any action with an annual net change in CO greater than or equal to 100 ton/yr would be considered potentially significant and would require a General Conformity Determination to establish the action's actual significance.

3.1.2.1.2 Determination

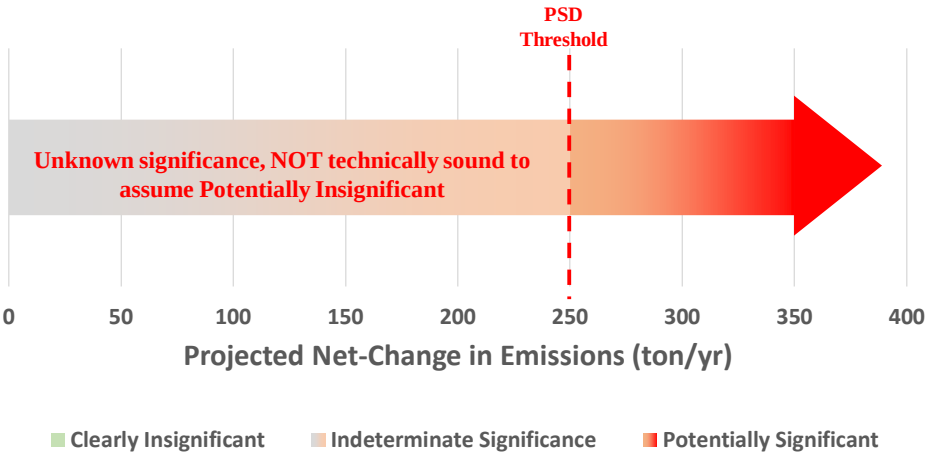
A Determination is performed in an Air Quality EIAP Level III, Advanced Assessment. A Determination is an in in-depth assessment to definitively verify a significant impact that will affect public health or safety. A Determination is only performed if an action has been identified as "potentially significant" in an Applicability Analysis.

In promulgating the General Conformity Rule, the EPA defined significant as an action that does not conform to the applicable State or tribal plan to meet and sustain NAAQSs (i.e., SIP or TIP). By not conforming with the applicable SIP or TIP, the action may cause or contribute to new violations of a NAAQS.

3.1.2.2 Attainment Area Context

While there are established insignificance thresholds for use in General Conformity (nonattainment and maintenance areas), there are no established significance thresholds for attainment areas. However, according to the preamble to the original General Conformity Regulations (58 FR 1384, 12/30/1993), "the de minimis levels for conformity analyses in the final rule are based on the Act's (Clean Air Act or CAA) major stationary source definitions" except for lead. Given the Prevention of Significant Deterioration (PSD) 250 ton/yr threshold (directly emits or has the potential to emit) is one of the CAA's major stationary source definitions (triggers) for a new major source or a source making a major modification in an attainment area, the 250 ton/yr PSD attainment area threshold would be an indicator of potentially significant air quality impacts for NEPA (i.e., within areas in attainment with all NAAQS).

Figure 4, PSD 250 ton/yr Threshold as Significance Indicator

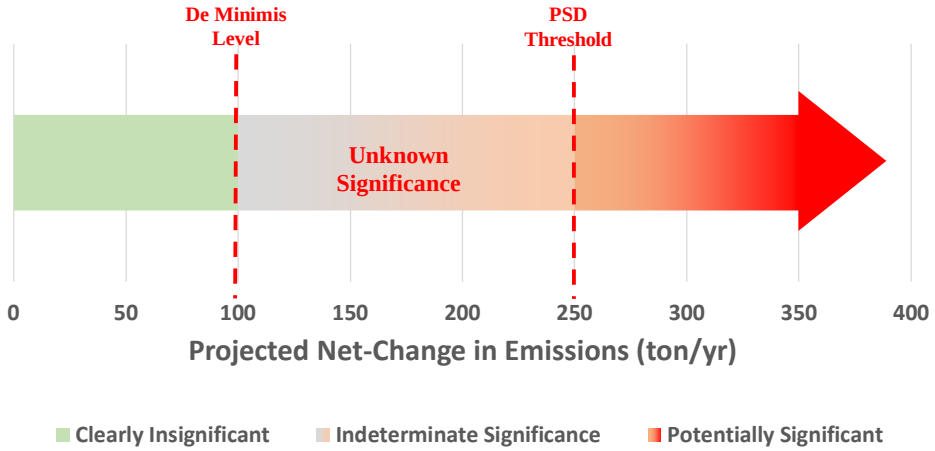


Actions that exceed the PSD 250 ton/yr threshold would potentially be significant; therefore, the PSD 250 ton/yr threshold provides an indicator for actions that are potentially significant. However, as shown in *Figure 4, PSD 250 ton/yr Threshold as Significance Indicator*, upon technical review of available scientific data and EPA guidance, it was concluded that the use of the 250 ton/yr threshold as an indicator of insignificance could result in exacerbating air-related health issues and may cause or contribute to new violations of a NAAQS for areas that are near nonattainment. Therefore, the use of the PSD threshold as an insignificance indicator in near nonattainment areas is NOT TECHNICALLY SOUND because it could result in exacerbating air-related health issues and may cause or contribute to a new violation of a NAAQS.

This situation is alleviated to some degree with also applying the General Conformity maintenance area de minimis levels (25 ton/yr for lead and 100 ton/yr for all other criteria pollutants), which were established for nonattainment and maintenance areas, as insignificance indicators for actions that will occur within nonattainment and maintenance areas (see ***Figure 5, De Minimis and PSD 250 ton/yr Threshold as Significance Indicator***). In this case, if an action's annual net change in emissions is:

- **Potentially Significant** - greater than or equal to the PSD threshold,
- **Clearly Insignificant** - less than the de minimis threshold, or
- **Indeterminant Significant** (unknown significance) - greater than or equal to the de minimis threshold and less than the PSD threshold.

Figure 5, De Minimis and PSD 250 ton/yr Threshold as Significance Indicator



As can be seen from *Figure 5, De Minimis and PSD 250 ton/yr Threshold as Significance Indicator*, the significance (and insignificance) of an action's annual net change in emissions falling between the de minimis and PSD values is still unknown without further evaluation of the context (i.e., attainment status) of a specific action. However, it is intuitive that actions occurring within areas that are near nonattainment would be more likely to have an impact on air quality than areas that are not near nonattainment.

Given maintenance areas are areas that have recently met NAAQS, they are actually areas that are also near nonattainment (within the past twenty years). Therefore, the maintenance area (near nonattainment area by another name) de minimis levels (100 ton/yr for all other criteria pollutants excluding lead) can conservatively be used as insignificant criteria for near nonattainment areas. Therefore, logically the 100 ton/yr maintenance area de minimis value provides an indicator of insignificance for near nonattainment areas.

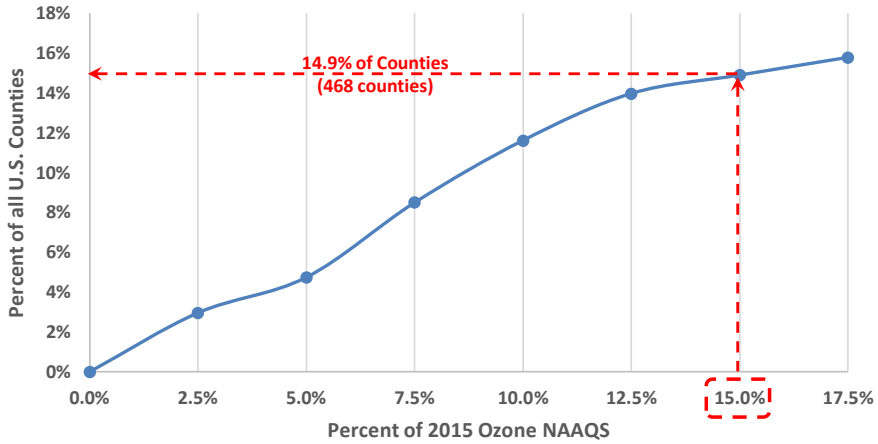
What is "Near Nonattainment"?

The EPA believes that an air quality design value below 85% of any NAAQS could be considered significantly below the standard because the air quality is not likely to deteriorate to a level that would violate the NAAQS. The EPA has used this "85% of NAAQS" rule to define maintenance areas with low risk of exceeding a NAAQS (low risk maintenance areas) to allow Limited Maintenance Plans in these areas to alleviate requirements of a standard Maintenance Plan. (EPA 2018, 2001, 1995, and 1994)

This EPA "85% of NAAQS" rule of thumb for low-risk maintenance areas is inversely applied to indicate higher risk maintenance areas where continued attainment is questionable. Maintenance areas with ambient air quality within 15% of a NAAQS (design value) is considered questionably below the standard (i.e., questionably attainment).

Based on the 2018 design values for all NAAQSs (see *Attachment 1, Air Quality Statistics by County 2019*), about 17% of all U.S. counties are within 15% of any NAAQS and about 14.9% of all U.S. counties are within 15% of the 2015 Ozone NAAQS. Therefore, these counties would be considered questionably attainment based on the EPA's 85% of any NAAQS rule. Analysis of the EPA's 2018 ozone design values indicated that ozone accounts for 88% of all questionably attainment counties (i.e., within 15% of the 2015 Ozone NAAQS); see *Figure 6, Percent of U.S. Counties within 15% of the 2015 Ozone NAAQS*.

Figure 6, Percent of U.S. Counties within 15% of the 2015 Ozone NAAQS



With 18% of all U.S. counties considered questionably attainment for any NAAQS (14.9% for ozone alone), it seems excessive and disproportionate to use the EPA's 85% of any NAAQS (questionably attainment) rule to define "near nonattainment".

To assess the appropriateness of the EPA's 85% of NAAQS (questionably attainment) rule to define "near nonattainment", a simple trend analyses of the 2008 Ozone NAAQS's maintenance areas was performed. The 2008 Ozone NAAQS maintenance areas data (see *Attachment 2, 2008 Ozone NAAQS Previously Designated Nonattainment Areas Design Value History*) was used because:

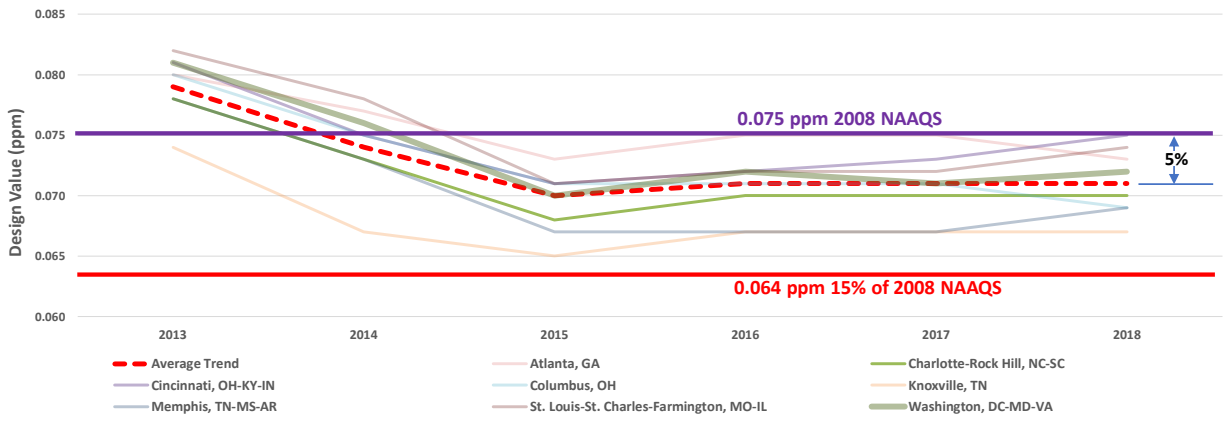
- Currently ozone makes up 88% of all questionably attainment counties (within 15% of any NAAQS).
- Maintenance areas are localized areas that have recently achieved attainment; therefore, maintenance areas are attainment areas that are in effect truly near nonattainment areas.
- Ozone design value data has been collected since 2009.

The analysis is summarized in *Figure 7, 2008 Ozone NAAQS Maintenance Area Trends*, which shows:

- Applying the EPA 85% of NAAQS (questionably attainment) rule would define near nonattainment as at or below 0.064 ppm (15% of 2008 Ozone 0.070 ppm NAAQS), and
- An average trend holds steady at 5% of the NAAQS with average 5% fluctuations above and below the average trend line.

Based on the trend analysis of the maintenance areas for the 2008 Ozone NAAQS, it is apparent that using the EPA's 85% of NAAQS (questionably attainment) rule is too conservative and disproportionate to define "near nonattainment". The trend analysis also suggests a more representative definition for "near nonattainment" would be within 5% of the NAAQS.

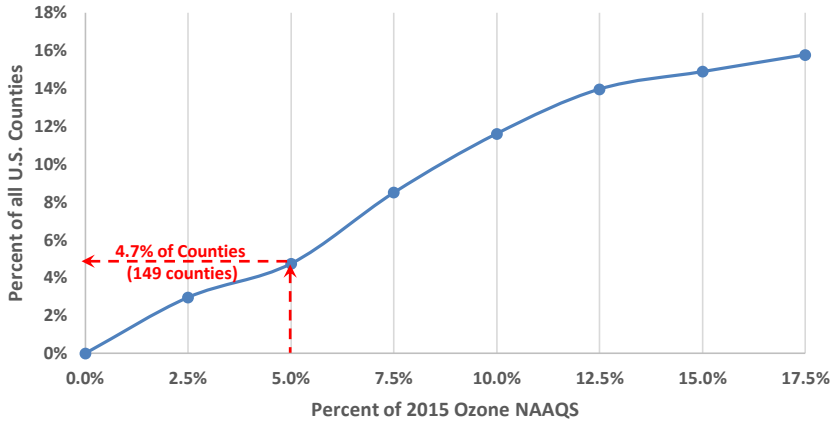
Figure 7, 2008 Ozone NAAQS Maintenance Area Trends



Defining "near nonattainment" as within 5% of the NAAQS as the trend analysis suggests is graphically depicted in

Figure 8, Percent of U.S. Counties within 5% of the 2015 Ozone ***NAAQS***. The figure shows that defining "near nonattainment" as within 5% of the NAAQS only includes 149 counties (4.7% of the total counties).

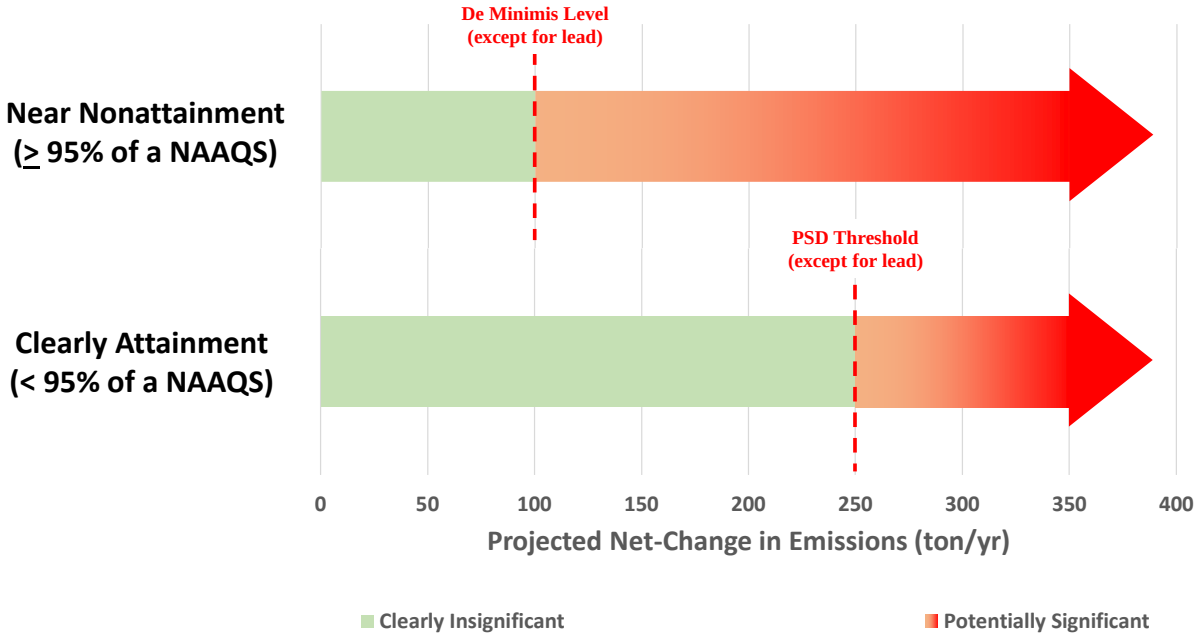
Figure 8, Percent of U.S. Counties within 5% of the 2015 Ozone NAAQS



Both *Figure 7, 2008 Ozone NAAQS Maintenance Area Trends*, and *Figure 8, Percent of U.S. Counties within 5% of the 2015 Ozone NAAQS*, demonstrate that defining "near nonattainment" as within 5% of the NAAQS is technically sound and not too conservative or disproportionate. Therefore, **"near nonattainment" is defined as ambient air quality design value within 5% of any NAAQS (or ≥ 95% of NAAQS)**.

By applying the new near nonattainment definition (within 5% of the NAAQS), the insignificance of action's annual net change in emissions falling between the de minimis and PSD values can know be established. The 100 ton/yr maintenance area de minimis value provides an indicator of insignificance for near nonattainment areas and the 250 ton/yr PSD threshold provides an indicator of insignificance for clearly attainment areas (see *Figure 9, Insignificance Criteria for Attainment Areas*).

Figure 9, Insignificance Criteria for Attainment Areas

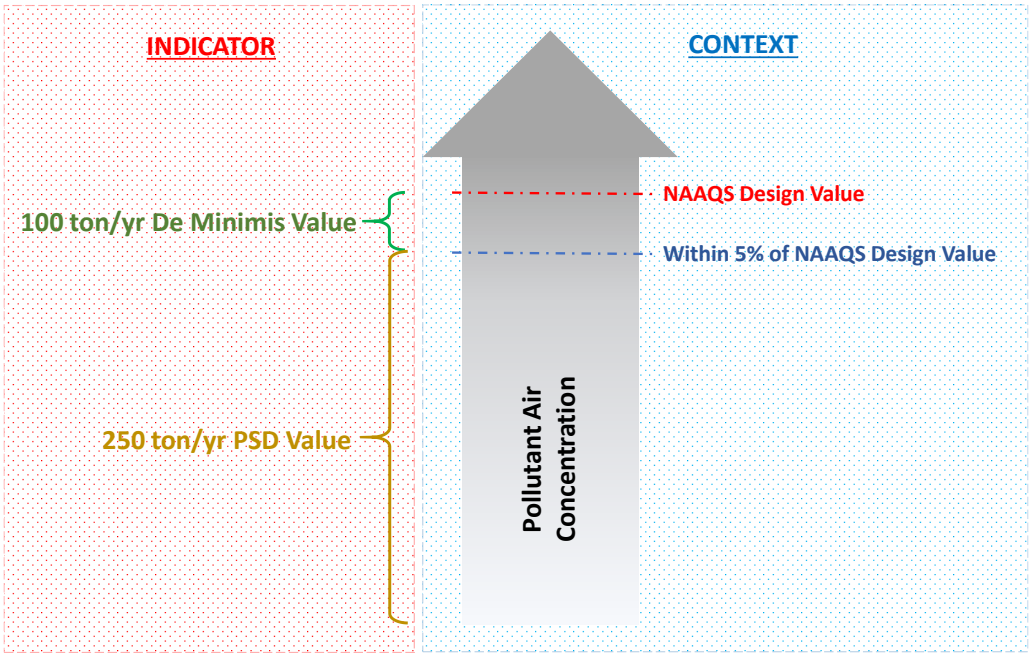


Therefore, **near nonattainment areas should** (see *Figure 10, Attainment Area Insignificance Indicators*):

- **Always use the maintenance area de minimis values (25 ton/yr for lead and 100 ton/yr for all other criteria pollutants) as insignificance criteria as an indicator of insignificance and potential significance.**

- **Never use the 250 ton/yr PSD value as a significance criterion to indicate insignificance.**

Figure 10, Attainment Area Insignificance Indicators



NOTE: Does not apply to lead.

Special Case Criteria Pollutant, Lead

Due to the toxicity of lead, the use of the PSD 250 ton/yr attainment area lead threshold as an indicator of potential air quality impact insignificance in NEPA assessments is not protective of human health or the environment. In fact, lead is not only a criteria pollutant, but is also a listed and regulated Hazardous Air Pollutant (HAP) because of its toxicity. Therefore, the PSD 250 ton/yr attainment area threshold for lead is not scientifically sound and contrary to the professional/scientific integrity requirements of NEPA.

The General Conformity de minimis values for most criteria pollutants were based on major source definitions; therefore, the PSD 250 ton/yr attainment area threshold would logically be a good insignificance indicator for these criteria pollutants in areas in attainment with NAAQSs. However, due to lead's toxicity, the de minimis level for lead (25 ton/yr) was not established based on the definition of major stationary source for lead because a relatively small increases in lead emissions (compared to other criteria pollutants) may threaten the lead standard (General Conformity Preamble, 58 FR 1384, 12/30/1993). Therefore, the rational for applying the PSD attainment area threshold as an insignificance level in attainment areas for other criteria pollutants is not logically or technically sound for lead.

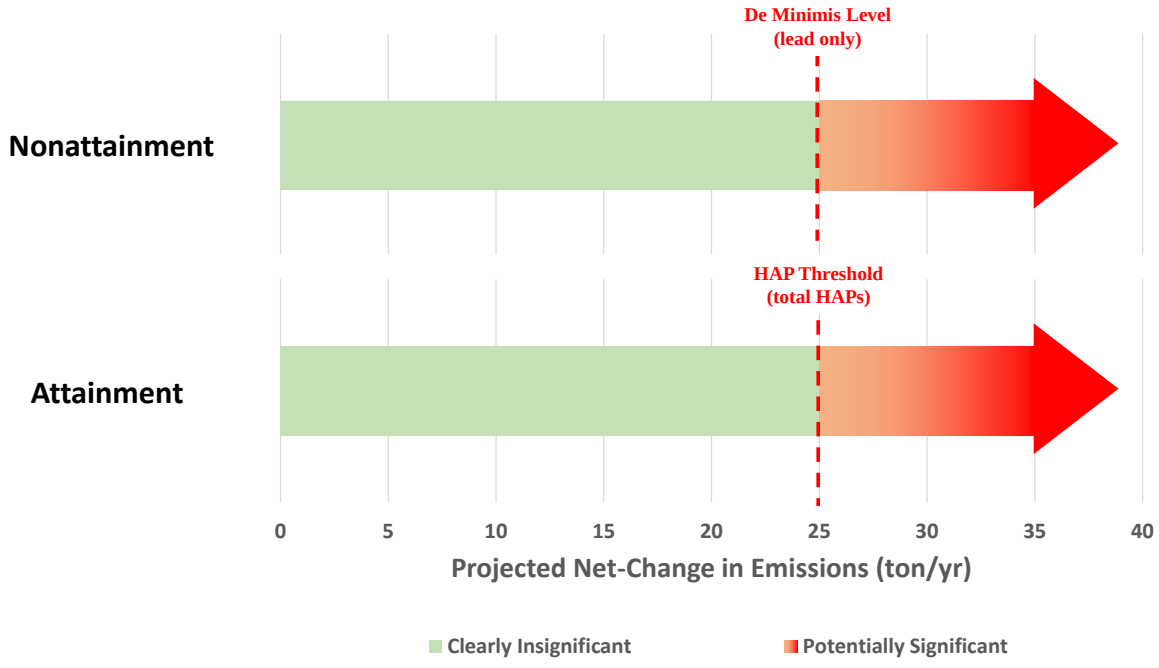
Lead is not only a criteria pollutant but is also a listed HAP. HAPs are air pollutants that, because they are known to cause cancer and other serious health impacts, the Clean Air Act (CAA) requires the EPA to list them as toxic pollutant and regulate them. The fact that lead is a

listed HAP, when all other criteria pollutants are not, shows lead is a greater threat (compared to other criteria pollutants) to human health and the environment. According to Section 112(g) of the CAA and 40 CFR 63, Major sources of HAP are stationary emission sources that have the potential to emit greater than 10 ton/yr of any one HAP or 25 ton/yr of any combination of HAPs. Given nearly every USAF action is comprised primarily of non-stationary emission sources (i.e., mobile and transitory sources), applying the 10 ton/yr level for any one HAP would be too conservative. However, the General Conformity de minimis value for maintenance and nonattainment area actions is 25 ton/yr; therefore, using the 25 ton/yr level would appear more appropriate.

Additionally, lead is generally emitted in extremely low quantities. To put this in perspective, the entire USAF generates less than one ton of lead per year (APIMS data pull). If the PSD 250 ton/yr attainment area threshold is used (ignoring health or the environment impacts for argument purposes), this would allow the action to emit about 500 times the USAF-wide lead emissions for an entire year! Such an extreme level would certainly be of concern to the general public.

Therefore, lead only has one insignificance indicator (25 ton/yr de minimis value and HAP threshold value) given that the PSD 250 ton/yr attainment area threshold cannot be used (not protective of human health or the environment), the extreme toxicity of lead, and the extremely low quantities generally emitted. See *Figure 11, Nonattainment & Attainment Area Lead Insignificance Indicators*, for a representation of how the lead insignificance indicator is applied.

Figure 11, Nonattainment & Attainment Area Lead Insignificance Indicators



4 Other Regulated Emissions Insignificance Criteria

In addition to the criteria pollutants, Section 112 of the CAA authorizes the EPA to regulate emissions of HAPs, also known as toxic air pollutants or air toxics. HAPs are pollutants that cause or may cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental and ecological effects. No NAAQS have been established for HAPs (except for lead, which is regulated as a criteria pollutant and as a HAP). At present, the EPA is required to control about 190 HAPs. A complete list of the regulated HAPs can be found on EPA's Air Toxics website at: http://www.epa.gov/ttn/atw/orig189.html.

References

40 CFR 1508 "Code of Federal Regulations, Title 40: Protection of the Environment, Chapter V: Council on Environmental Quality, Part 1508: Terminology and Index," President's Council on Environmental Quality

40 CFR 63 "Code of Federal Regulations, Title 40: Protection of the Environment, Chapter 1: Environmental Protection Agency, Subchapter C: Air Programs, Part 63: National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart A; General Provisions," U.S. Environmental Protection Agency

40 CFR 93 "Code of Federal Regulations, Title 40: Protection of the Environment, Chapter 1: Environmental Protection Agency, Subpart B: Air Programs, Part 93: Determining Conformity of Federal Actions to State or Federal Implementation Plans, Subpart B: Determining Conformity of General Federal Actions to State or Federal Implementation Plans," U.S. Environmental Protection Agency

EPA 2020 "National Ambient Air Quality Standards Table, U.S. Environmental Protection Agency, website assessed May 15, 2020 (https://www.epa.gov/criteria-air-pollutants/naaqs-table)

EPA 2018 "Resource Document For 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans," U.S. Environmental Protection Agency, November 2018

EPA 2001 "Limited Maintenance Plan Option for Moderate PM10 Nonattainment Areas," Lydia Wegman, Director, Air Quality Strategies and Standards Division, U.S. Environmental Protection Agency, August 2001

EPA 1995 "Limited Maintenance Plan Option for Nonclassified CO Nonattainment Areas," Joseph Paisie, Integrated Policy and Strategies Group, U.S. Environmental Protection Agency, October 1995

EPA 1994 "Limited Maintenance Plan Option for Nonclassified Ozone Nonattainment Areas," Sally Shaver, Director, Air Quality Strategies and Standards Division, U.S. Environmental Protection Agency, August 2001

Attachment 1

Air Quality Statistics by County, 2019

https://www.epa.gov/air-trends/air-quality-cities-and-counties

Note: The values shown are the highest among the sites in each area. Data from exceptional events are included. The monitoring data represent the quality of air in the vicinity of the monitoring site and, for some pollutants, may not necessarily represent urban-wide air quality. Based on data from Air Quality Statistics (AQS) as of May 5, 2020.

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
Alabama	Baldwin Co.	1003	ND	ND	ND	ND	**0.064**	ND	IN	IN	ND
Alabama	Clay Co.	01027	ND	ND	ND	ND	ND	ND	7	15	ND
Alabama	Colbert Co.	01033	ND	ND	ND	ND	**0.06**	ND	7.5	16	ND
Alabama	DeKalb Co.	01049	ND	ND	ND	ND	**0.064**	ND	7	16	ND
Alabama	Elmore Co.	01051	ND	ND	ND	ND	**0.06**	ND	ND	ND	ND
Alabama	Escambia Co.	01053	ND	ND	ND	ND	ND	ND	IN	IN	ND
Alabama	Etowah Co.	01055	ND	ND	ND	ND	**0.064**	ND	7.8	15	ND
Alabama	Houston Co.	01069	ND	ND	ND	ND	**0.061**	ND	7.7	17	ND
Alabama	Jefferson Co.	01073	1	ND	11	45	0.07	65	**10.2**	22	54
Alabama	Madison Co.	01089	ND	ND	ND	ND	**0.065**	33	7.4	16	ND
Alabama	Mobile Co.	01097	ND	ND	ND	ND	**0.065**	ND	8.1	17	10
Alabama	Montgomery Co.	01101	ND	ND	ND	ND	**0.062**	49	8.4	18	ND
Alabama	Morgan Co.	01103	ND	ND	ND	ND	**0.066**	ND	7.4	16	ND
Alabama	Pike Co.	01109	ND	0.11	ND	ND	ND	ND	ND	ND	ND
Alabama	Russell Co.	01113	ND	ND	ND	ND	**0.061**	ND	9.3	20	ND
Alabama	Shelby Co.	01117	ND	ND	ND	ND	**0.067**	ND	IN	IN	**72**
Alabama	Sumter Co.	01119	ND	ND	ND	ND	**0.06**	ND	IN	IN	4
Alabama	Talladega Co.	01121	ND	ND	ND	ND	ND	ND	IN	IN	ND
Alabama	Tuscaloosa Co.	01125	ND	ND	ND	ND	**0.063**	ND	7.7	17	ND
Alabama	Walker Co.	01127	ND	ND	ND	ND	ND	ND	IN	IN	ND
Alaska	Anchorage Municipality	02020	3	ND	ND	ND	ND	102	5.4	18	ND
Alaska	Bethel Census Area	02050	ND	ND	ND	ND	ND	60	ND	ND	ND
Alaska	Denali Borough	02068	ND	ND	ND	ND	0.053	ND	IN	IN	ND
Alaska	Fairbanks North Star Borough	02090	2	ND	12	54	0.041	59	**11.3**	53	37
Alaska	Juneau City and Borough	02110	ND	ND	ND	ND	ND	17	6.9	22	ND
Alaska	Kenai Peninsula Borough	02122	ND	ND	ND	ND	ND	ND	IN	IN	ND
Alaska	Ketchikan Gateway Borough	02130	ND	ND	ND	ND	ND	ND	IN	IN	ND
Alaska	Matanuska-Susitna Borough	02170	ND	ND	ND	ND	0.047	155	4.6	19	ND
Alaska	Skagway Municipality	02232	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arizona	Apache Co.	04001	ND	ND	ND	ND	ND	58	ND	ND	ND
Arizona	Cochise Co.	04003	ND	ND	ND	ND	**0.067**	88	5.6	12	ND
Arizona	Coconino Co.	04005	ND	ND	ND	ND	**0.069**	ND	IN	IN	ND
Arizona	Gila Co.	04007	ND	0.23	ND	ND	0.076	239	IN	IN	208
Arizona	La Paz Co.	04012	0	ND	ND	ND	0.07	94	5.1	11	ND
Arizona	Maricopa Co.	04013	3	0.05	28	62	0.08	294	10.1	**31**	8
Arizona	Mohave Co.	04015	ND	ND	ND	ND	ND	102	ND	ND	ND
Arizona	Navajo Co.	04017	ND	ND	ND	ND	**0.069**	51	ND	ND	ND

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
Arizona	Pima Co.	04019	1	ND	8	41	0.071	206	5.6	12	2
Arizona	Pinal Co.	04021	ND	ND	ND	ND	0.076	829	12.1	**34**	ND
Arizona	Santa Cruz Co.	04023	ND	ND	ND	ND	ND	114	8.5	22	ND
Arizona	Yavapai Co.	04025	ND	ND	ND	ND	**0.065**	ND	IN	IN	ND
Arizona	Yuma Co.	04027	ND	ND	ND	ND	0.074	227	8.7	26	ND
Arkansas	Arkansas Co.	05001	ND	ND	ND	ND	ND	ND	8.3	19	ND
Arkansas	Ashley Co.	05003	ND	ND	ND	ND	ND	ND	8.1	21	ND
Arkansas	Clark Co.	05019	ND	ND	ND	ND	**0.062**	ND	ND	ND	ND
Arkansas	Craighead Co.	05031	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Crittenden Co.	05035	ND	ND	7	38	0.07	ND	8.8	20	ND
Arkansas	Faulkner Co.	05045	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Garland Co.	05051	ND	ND	ND	ND	ND	ND	8.3	19	ND
Arkansas	Jackson Co.	05067	ND	ND	ND	ND	ND	ND	7.9	20	ND
Arkansas	Jefferson Co.	05069	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Marion Co.	05089	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Miller Co.	05091	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Mississippi Co.	05093	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Newton Co.	05101	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Arkansas	Phillips Co.	05107	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Polk Co.	05113	ND	ND	ND	ND	0.063	ND	8.6	20	ND
Arkansas	Pope Co.	05115	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Pulaski Co.	05119	1	ND	7	42	0.067	51	9.7	22	6
Arkansas	Sebastian Co.	05131	ND	ND	ND	ND	ND	ND	IN	IN	ND
Arkansas	Union Co.	05139	ND	ND	ND	ND	ND	ND	8.8	21	ND
Arkansas	Washington Co.	05143	ND	ND	ND	ND	0.065	40	8.4	25	ND
Arkansas	White Co.	05145	ND	ND	ND	ND	ND	ND	IN	IN	ND
California	Alameda Co.	06001	3	ND	17	54	0.069	ND	14.4	82	9
California	Amador Co.	06005	ND	ND	ND	ND	0.075	ND	ND	ND	ND
California	Butte Co.	06007	6	ND	7	36	0.084	338	13.7	61	ND
California	Calaveras Co.	06009	ND	ND	ND	ND	0.077	62	14.6	41	ND
California	Colusa Co.	06011	ND	ND	ND	ND	0.061	166	IN	60	ND
California	Contra Costa Co.	06013	2	ND	8	41	0.064	102	13.4	73	20
California	Del Norte Co.	06015	ND	ND	ND	ND	ND	ND	IN	IN	ND
California	El Dorado Co.	06017	ND	ND	ND	ND	0.095	80	IN	IN	ND
California	Fresno Co.	06019	2	ND	21	63	0.088	125	17.1	66	6
California	Glenn Co.	06021	ND	ND	ND	ND	0.061	121	ND	ND	ND
California	Humboldt Co.	06023	1	ND	2	21	0.049	55	7.7	30	1
California	Imperial Co.	06025	3	ND	12	64	0.076	355	13.5	40	IN
California	Inyo Co.	06027	1	ND	ND	ND	0.078	353	7.4	44	IN
California	Kern Co.	06029	1	ND	13	51	0.096	171	19.4	69	ND
California	Kings Co.	06031	ND	ND	9	51	0.08	219	17.7	78	ND
California	Lake Co.	06033	ND	ND	ND	ND	0.055	89	9.3	72	ND
California	Los Angeles Co.	06037	3	0.06	22	79	0.102	90	13.3	36	9
California	Madera Co.	06039	1	ND	6	33	0.076	140	14	50	ND
California	Marin Co.	06041	2	ND	9	46	0.049	95	11.1	74	ND
California	Mariposa Co.	06043	ND	ND	ND	ND	0.085	285	ND	ND	ND
California	Mendocino Co.	06045	ND	ND	ND	ND	0.053	152	11.3	60	ND
California	Merced Co.	06047	ND	ND	7	36	0.079	80	15.1	56	ND
California	Modoc Co.	06049	ND	ND	ND	ND	ND	ND	IN	IN	ND
California	Mono Co.	06051	ND	ND	ND	ND	ND	580	IN	99	ND
California	Monterey Co.	06053	1	ND	5	29	0.054	76	7.3	29	ND
California	Napa Co.	06055	1	ND	IN	IN	0.054	IN	IN	74	ND
California	Nevada Co.	06057	ND	ND	ND	ND	0.095	ND	6.2	46	ND
California	Orange Co.	06059	2	ND	21	56	0.074	88	11.4	32	ND
California	Placer Co.	06061	ND	ND	8	43	0.098	170	11.9	57	ND

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
California	Plumas Co.	06063	ND	ND	ND	ND	ND	ND	14.6	37	ND
California	Riverside Co.	06065	2	0.01	14	51	0.1	377	14.2	34	2
California	Sacramento Co.	06067	4	ND	12	58	0.079	252	12.8	50	2
California	San Benito Co.	06069	ND	ND	ND	ND	0.066	84	7.2	38	ND
California	San Bernardino Co.	06071	1	0.01	30	71	0.111	142	14.5	33	6
California	San Diego Co.	06073	1	0.02	15	48	0.08	54	10	29	1
California	San Francisco Co.	06075	2	ND	11	59	0.048	IN	11.7	81	ND
California	San Joaquin Co.	06077	2	ND	12	58	0.075	212	17.6	97	ND
California	San Luis Obispo Co.	06079	ND	ND	5	31	0.071	123	8.8	29	1
California	San Mateo Co.	06081	2	ND	10	54	0.048	ND	10.6	61	ND
California	Santa Barbara Co.	06083	1	ND	6	23	0.065	103	8.6	20	2
California	Santa Clara Co.	06085	2	0.08	17	59	0.066	115	12.8	73	3
California	Santa Cruz Co.	06087	ND	ND	ND	ND	0.054	ND	8.3	41	ND
California	Shasta Co.	06089	ND	ND	ND	ND	0.079	137	15.9	103	ND
California	Siskiyou Co.	06093	ND	ND	ND	ND	0.072	ND	14.4	113	ND
California	Solano Co.	06095	2	ND	8	IN	0.061	105	13.3	83	IN
California	Sonoma Co.	06097	1	ND	4	41	0.055	205	8.3	65	ND
California	Stanislaus Co.	06099	2	ND	10	47	0.084	184	17.2	100	ND
California	Sutter Co.	06101	3	ND	7	41	0.08	245	10.3	37	ND
California	Tehama Co.	06103	ND	ND	ND	ND	0.082	100	10.5	63	ND
California	Tulare Co.	06107	ND	ND	11	53	0.091	152	17.3	63	ND
California	Tuolumne Co.	06109	ND	ND	ND	ND	0.084	ND	ND	ND	ND
California	Ventura Co.	06111	ND	ND	8	37	0.076	160	10.2	24	ND
California	Yolo Co.	06113	ND	ND	4	27	0.068	183	12.8	95	ND
Colorado	Adams Co.	08001	2	ND	16	60	0.069	146	10.2	27	6
Colorado	Alamosa Co.	08003	ND	ND	ND	ND	ND	139	ND	ND	ND
Colorado	Arapahoe Co.	08005	ND	ND	ND	ND	0.077	ND	6.3	20	ND
Colorado	Archuleta Co.	08007	ND	ND	2	15	0.065	51	IN	IN	IN
Colorado	Boulder Co.	08013	ND	ND	ND	ND	0.077	57	7.4	29	ND
Colorado	Clear Creek Co.	08019	ND	ND	ND	ND	0.078	ND	ND	ND	ND
Colorado	Delta Co.	08029	ND	ND	IN	IN	0.054	50	IN	IN	ND
Colorado	Denver Co.	08031	3	ND	27	70	0.072	73	9.2	25	8
Colorado	Douglas Co.	08035	ND	ND	ND	ND	0.083	ND	7.5	37	ND
Colorado	Elbert Co.	08039	ND	ND	ND	ND	ND	ND	IN	IN	ND
Colorado	El Paso Co.	08041	2	ND	ND	ND	0.073	36	6.2	16	9
Colorado	Fremont Co.	08043	ND	ND	ND	ND	ND	IN	ND	ND	ND
Colorado	Garfield Co.	08045	ND	ND	5	IN	0.067	62	ND	ND	ND
Colorado	Gunnison Co.	08051	ND	ND	ND	ND	0.069	60	IN	IN	ND
Colorado	Jefferson Co.	08059	ND	ND	ND	ND	0.081	ND	ND	ND	ND
Colorado	La Plata Co.	08067	1	ND	5	26	0.071	116	13.5	100	ND
Colorado	Larimer Co.	08069	2	ND	ND	ND	0.081	51	7.7	20	ND
Colorado	Mesa Co.	08077	1	ND	ND	ND	0.069	38	5.9	16	ND
Colorado	Moffat Co.	08081	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Colorado	Montezuma Co.	08083	ND	ND	ND	ND	0.072	ND	IN	IN	ND
Colorado	Montrose Co.	08085	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Colorado	Park Co.	08093	ND	ND	IN	IN	0.047	8	ND	ND	ND
Colorado	Pitkin Co.	08097	ND	ND	ND	ND	ND	39	ND	ND	ND
Colorado	Prowers Co.	08099	ND	ND	ND	ND	ND	109	ND	ND	ND
Colorado	Pueblo Co.	08101	ND	ND	ND	ND	ND	56	6.2	16	ND
Colorado	Rio Blanco Co.	08103	ND	ND	2	24	0.068	ND	8.5	21	ND
Colorado	Routt Co.	08107	ND	ND	ND	ND	ND	53	IN	IN	ND
Colorado	San Miguel Co.	08113	ND	ND	ND	ND	ND	45	IN	IN	ND
Colorado	Weld Co.	08123	1	ND	ND	ND	0.073	48	9.6	24	ND
Connecticut	Fairfield Co.	09001	1	ND	9	40	0.086	36	7.9	21	6

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
Connecticut	Hartford Co.	09003	1	ND	13	41	0.067	62	7.9	19	ND
Connecticut	Litchfield Co.	09005	0	ND	ND	ND	0.071	30	4.2	13	3
Connecticut	Middlesex Co.	09007	ND	ND	ND	ND	0.077	ND	ND	ND	ND
Connecticut	New Haven Co.	09009	1	ND	12	52	0.077	38	8.3	22	3
Connecticut	New London Co.	09011	ND	ND	ND	ND	0.074	31	IN	IN	ND
Connecticut	Tolland Co.	09013	ND	ND	ND	ND	0.071	ND	ND	ND	ND
Connecticut	Windham Co.	09015	ND	ND	ND	ND	0.072	ND	ND	ND	ND
Delaware	Kent Co.	10001	ND	ND	ND	ND	0.067	ND	5.8	13	ND
Delaware	New Castle Co.	10003	1	ND	10	IN	0.072	ND	7.8	19	6
Delaware	Sussex Co.	10005	ND	ND	ND	ND	0.068	ND	6.1	15	IN
District of Columbia	District of Columbia	11001	2	ND	13	49	0.073	40	9.5	21	5
Florida	Alachua Co.	12001	ND	ND	ND	ND	0.062	ND	IN	IN	ND
Florida	Baker Co.	12003	ND	ND	ND	ND	0.06	ND	ND	ND	ND
Florida	Bay Co.	12005	ND	ND	ND	ND	0.061	ND	IN	IN	ND
Florida	Brevard Co.	12009	ND	ND	ND	ND	0.064	26	5.4	11	ND
Florida	Broward Co.	12011	1	ND	15	46	0.066	47	6.4	15	1
Florida	Citrus Co.	12017	ND	ND	ND	ND	ND	ND	IN	IN	37
Florida	Collier Co.	12021	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Florida	Columbia Co.	12023	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Florida	Duval Co.	12031	1	ND	11	41	0.061	203	8.7	17	17
Florida	Escambia Co.	12033	ND	ND	ND	ND	0.067	ND	7.5	19	5
Florida	Flagler Co.	12035	ND	ND	ND	ND	0.06	ND	ND	ND	ND
Florida	Hamilton Co.	12047	ND	ND	ND	ND	ND	ND	ND	ND	IN
Florida	Highlands Co.	12055	ND	ND	ND	ND	0.06	ND	ND	ND	ND
Florida	Hillsborough Co.	12057	1	0.11	10	IN	0.07	52	IN	IN	12
Florida	Holmes Co.	12059	ND	ND	ND	ND	0.06	ND	ND	ND	ND
Florida	Indian River Co.	12061	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Florida	Lake Co.	12069	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Florida	Lee Co.	12071	ND	ND	ND	ND	0.065	45	7.4	16	ND
Florida	Leon Co.	12073	ND	ND	ND	ND	0.06	ND	7.3	17	ND
Florida	Liberty Co.	12077	ND	ND	ND	ND	0.059	ND	ND	ND	ND
Florida	Manatee Co.	12081	ND	ND	ND	ND	0.066	ND	IN	IN	10
Florida	Marion Co.	12083	ND	ND	ND	ND	0.062	ND	IN	IN	ND
Florida	Martin Co.	12085	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Florida	Miami-Dade Co.	12086	1	ND	11	44	0.065	66	8.4	18	4
Florida	Nassau Co.	12089	ND	ND	ND	ND	ND	ND	ND	ND	40
Florida	Okaloosa Co.	12091	ND	ND	ND	ND	0.061	54	ND	ND	ND
Florida	Orange Co.	12095	1	ND	5	30	0.063	27	6.8	16	4
Florida	Osceola Co.	12097	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Florida	Palm Beach Co.	12099	ND	ND	3	IN	0.064	124	IN	IN	ND
Florida	Pasco Co.	12101	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Florida	Pinellas Co.	12103	1	ND	9	31	0.067	52	6.8	15	10
Florida	Polk Co.	12105	ND	ND	ND	ND	0.066	35	IN	IN	16
Florida	Putnam Co.	12107	ND	ND	ND	ND	ND	54	ND	ND	13
Florida	St. Lucie Co.	12111	ND	ND	ND	ND	0.062	ND	IN	IN	ND
Florida	Santa Rosa Co.	12113	ND	ND	ND	ND	0.063	ND	IN	IN	ND
Florida	Sarasota Co.	12115	ND	ND	2	14	0.065	39	6.6	13	ND
Florida	Seminole Co.	12117	ND	ND	ND	ND	0.064	32	6.5	13	ND
Florida	Volusia Co.	12127	ND	ND	ND	ND	0.064	34	7	12	ND
Florida	Wakulla Co.	12129	1	ND	ND	ND	0.06	ND	ND	ND	IN
Georgia	Bibb Co.	13021	ND	ND	ND	ND	0.064	ND	8.5	18	3
Georgia	Chatham Co.	13051	ND	ND	ND	ND	0.058	ND	8.5	17	41
Georgia	Chattooga Co.	13055	ND	ND	ND	ND	0.059	ND	ND	ND	ND
Georgia	Clarke Co.	13059	ND	ND	ND	ND	0.065	ND	8.1	19	ND

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Georgia	Clayton Co.	13063	ND	ND	ND	ND	ND	ND	8.3	19	ND
Georgia	Cobb Co.	13067	ND	ND	ND	ND	0.065	ND	8	16	ND
Georgia	Coffee Co.	13069	ND	ND	ND	ND	ND	ND	5.9	13	ND
Georgia	Columbia Co.	13073	ND	ND	ND	ND	0.06	ND	ND	ND	ND
Georgia	Dawson Co.	13085	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Georgia	DeKalb Co.	13089	1	ND	15	47	0.067	38	7.8	17	2
Georgia	Dougherty Co.	13095	ND	ND	ND	ND	ND	ND	8.4	24	ND
Georgia	Douglas Co.	13097	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Georgia	Floyd Co.	13115	ND	ND	ND	ND	ND	ND	IN	IN	15
Georgia	Fulton Co.	13121	2	ND	16	41	0.072	29	9.2	18	4
Georgia	Glynn Co.	13127	ND	ND	ND	ND	0.06	ND	IN	IN	ND
Georgia	Gwinnett Co.	13135	ND	ND	ND	ND	0.065	ND	9.5	21	ND
Georgia	Hall Co.	13139	ND	ND	ND	ND	ND	ND	IN	IN	ND
Georgia	Henry Co.	13151	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Georgia	Houston Co.	13153	ND	ND	ND	ND	ND	ND	8.8	20	ND
Georgia	Lowndes Co.	13185	ND	ND	ND	ND	ND	ND	6.9	17	ND
Georgia	Murray Co.	13213	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Georgia	Muscogee Co.	13215	ND	0.04	ND	ND	0.059	ND	8.5	28	ND
Georgia	Paulding Co.	13223	ND	ND	ND	ND	ND	ND	IN	IN	ND
Georgia	Pike Co.	13231	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Georgia	Richmond Co.	13245	ND	ND	ND	ND	0.063	33	9.4	20	64
Georgia	Rockdale Co.	13247	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Georgia	Sumter Co.	13261	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Georgia	Walker Co.	13295	ND	ND	ND	ND	ND	ND	8.7	17	ND
Georgia	Washington Co.	13303	ND	ND	ND	ND	ND	ND	7.1	14	ND
Georgia	Wilkinson Co.	13319	ND	ND	ND	ND	ND	ND	IN	IN	ND
Hawaii	Hawaii Co.	15001	ND	ND	ND	ND	ND	ND	11.6	38	887
Hawaii	Honolulu Co.	15003	3	0	4	27	0.049	31	3.7	9	38
Hawaii	Kauai Co.	15007	ND	ND	5	39	ND	ND	2.6	8	3
Hawaii	Maui Co.	15009	ND	ND	ND	ND	ND	ND	4.5	11	ND
Idaho	Ada Co.	16001	2	ND	ND	ND	0.068	73	7.8	32	3
Idaho	Bannock Co.	16005	ND	ND	ND	ND	ND	109	IN	IN	44
Idaho	Benewah Co.	16009	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Boise Co.	16015	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Bonner Co.	16017	ND	ND	ND	ND	ND	119	IN	IN	ND
Idaho	Bonneville Co.	16019	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Boundary Co.	16021	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Butte Co.	16023	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Idaho	Canyon Co.	16027	ND	ND	ND	ND	ND	71	9.4	33	ND
Idaho	Caribou Co.	16029	ND	ND	ND	ND	ND	ND	IN	IN	27
Idaho	Franklin Co.	16041	ND	ND	ND	ND	ND	ND	6.7	27	ND
Idaho	Gem Co.	16045	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Idaho Co.	16049	ND	ND	ND	ND	0.063	ND	IN	IN	ND
Idaho	Jerome Co.	16053	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Kootenai Co.	16055	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Latah Co.	16057	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Lemhi Co.	16059	ND	ND	ND	ND	ND	ND	9.3	31	ND
Idaho	Nez Perce Co.	16069	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Power Co.	16077	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Shoshone Co.	16079	ND	ND	ND	ND	ND	65	12.1	40	ND
Idaho	Twin Falls Co.	16083	ND	ND	ND	ND	ND	ND	IN	IN	ND
Idaho	Valley Co.	16085	ND	ND	ND	ND	ND	ND	IN	IN	ND
Illinois	Adams Co.	17001	ND	ND	ND	ND	0.063	ND	IN	IN	ND
Illinois	Champaign Co.	17019	0	ND	ND	ND	0.072	ND	8	18	3
Illinois	Clark Co.	17023	ND	ND	ND	ND	0.066	ND	ND	ND	ND

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Illinois	Cook Co.	17031	1	0.01	18	61	0.084	78	11.2	27	11
Illinois	DuPage Co.	17043	ND	ND	ND	ND	0.071	ND	10.5	24	ND
Illinois	Effingham Co.	17049	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Illinois	Hamilton Co.	17065	ND	ND	ND	ND	0.069	ND	8.9	21	ND
Illinois	Jersey Co.	17083	ND	ND	ND	ND	0.07	ND	8.3	19	ND
Illinois	Jo Daviess Co.	17085	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Illinois	Kane Co.	17089	ND	ND	ND	ND	0.072	ND	9	21	ND
Illinois	Lake Co.	17097	ND	ND	ND	ND	0.074	ND	IN	IN	ND
Illinois	LaSalle Co.	17099	ND	ND	ND	ND	ND	ND	ND	IN	27
Illinois	McHenry Co.	17111	ND	ND	ND	ND	0.074	ND	8.2	19	ND
Illinois	McLean Co.	17113	ND	ND	ND	ND	0.068	ND	9.7	20	ND
Illinois	Macon Co.	17115	ND	ND	ND	ND	0.069	ND	10.4	22	89
Illinois	Macoupin Co.	17117	ND	ND	2	IN	0.066	ND	IN	IN	5
Illinois	Madison Co.	17119	ND	0.06	ND	ND	0.075	91	11	23	10
Illinois	Monroe Co.	17133	ND	ND	ND	ND	ND	ND	ND	ND	20
Illinois	Peoria Co.	17143	ND	ND	ND	ND	0.07	ND	9.4	20	ND
Illinois	Randolph Co.	17157	ND	ND	ND	ND	0.065	ND	7.8	19	ND
Illinois	Rock Island Co.	17161	ND	ND	ND	ND	0.067	ND	IN	IN	ND
Illinois	St. Clair Co.	17163	1	ND	9	38	0.073	ND	10.3	23	16
Illinois	Sangamon Co.	17167	ND	ND	ND	ND	0.069	ND	9.5	20	ND
Illinois	Tazewell Co.	17179	ND	ND	ND	ND	ND	ND	ND	ND	IN
Illinois	Wabash Co.	17185	ND	ND	ND	ND	ND	ND	ND	ND	37
Illinois	Will Co.	17197	ND	ND	ND	ND	0.071	ND	IN	IN	ND
Illinois	Winnebago Co.	17201	ND	ND	ND	ND	0.07	ND	IN	IN	ND
Indiana	Allen Co.	18003	ND	ND	ND	ND	0.072	ND	9.1	22	ND
Indiana	Bartholomew Co.	18005	ND	ND	ND	ND	0.069	ND	7.5	19	ND
Indiana	Boone Co.	18011	ND	ND	ND	ND	0.073	ND	ND	ND	ND
Indiana	Brown Co.	18013	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Indiana	Carroll Co.	18015	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Indiana	Clark Co.	18019	ND	ND	ND	ND	0.071	40	9.2	26	ND
Indiana	Daviess Co.	18027	ND	ND	ND	ND	ND	ND	ND	ND	13
Indiana	Delaware Co.	18035	ND	0.03	ND	ND	0.07	ND	8.3	19	ND
Indiana	Dubois Co.	18037	ND	ND	ND	ND	ND	36	8.9	22	ND
Indiana	Elkhart Co.	18039	ND	ND	ND	ND	0.07	ND	8.2	20	ND
Indiana	Floyd Co.	18043	ND	ND	ND	ND	0.073	ND	IN	IN	9
Indiana	Gibson Co.	18051	ND	ND	ND	ND	ND	ND	IN	IN	49
Indiana	Greene Co.	18055	ND	ND	ND	ND	0.066	ND	8.2	23	ND
Indiana	Hamilton Co.	18057	ND	ND	ND	ND	0.071	ND	8.1	18	ND
Indiana	Hendricks Co.	18063	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Indiana	Henry Co.	18065	ND	ND	ND	ND	ND	ND	7.9	17	ND
Indiana	Howard Co.	18067	ND	ND	ND	ND	0.072	ND	7.9	18	ND
Indiana	Huntington Co.	18069	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Indiana	Jackson Co.	18071	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Indiana	Knox Co.	18083	ND	ND	ND	ND	0.071	ND	IN	IN	ND
Indiana	Lake Co.	18089	2	0.31	10	47	0.071	60	10.7	27	26
Indiana	LaPorte Co.	18091	ND	ND	ND	ND	0.082	ND	IN	IN	ND
Indiana	Madison Co.	18095	ND	ND	ND	ND	0.072	ND	8.6	17	ND
Indiana	Marion Co.	18097	2	ND	14	IN	0.076	55	10.8	28	4
Indiana	Monroe Co.	18105	ND	ND	ND	ND	ND	ND	8.2	23	ND
Indiana	Montgomery Co.	18107	ND	ND	ND	ND	ND	ND	IN	IN	ND
Indiana	Morgan Co.	18109	ND	ND	ND	ND	0.066	ND	ND	ND	55
Indiana	Perry Co.	18123	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Indiana	Pike Co.	18125	ND	ND	ND	ND	ND	ND	ND	ND	19
Indiana	Porter Co.	18127	ND	0.01	ND	ND	0.071	76	8.1	19	28
Indiana	Posey Co.	18129	ND	ND	ND	ND	0.067	ND	ND	ND	ND

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Indiana	St. Joseph Co.	18141	ND	ND	10	39	0.073	ND	9.4	22	ND
Indiana	Shelby Co.	18145	ND	ND	ND	ND	0.072	ND	ND	ND	ND
Indiana	Spencer Co.	18147	ND	ND	ND	ND	ND	ND	8.5	20	ND
Indiana	Sullivan Co.	18153	ND	ND	ND	ND	ND	ND	8.8	24	ND
Indiana	Tippecanoe Co.	18157	ND	ND	ND	ND	ND	ND	8.3	19	ND
Indiana	Vanderburgh Co.	18163	1	ND	8	IN	0.068	30	9.3	21	11
Indiana	Vigo Co.	18167	ND	ND	ND	ND	0.069	33	8.4	20	4
Indiana	Wabash Co.	18169	ND	ND	ND	ND	0.076	ND	ND	ND	ND
Indiana	Warrick Co.	18173	ND	ND	ND	ND	0.07	ND	ND	ND	ND
Indiana	Whitley Co.	18183	ND	ND	ND	ND	ND	ND	8	20	ND
Iowa	Black Hawk Co.	19013	ND	ND	ND	ND	ND	ND	8.2	20	ND
Iowa	Bremer Co.	19017	ND	ND	ND	ND	0.069	ND	IN	IN	ND
Iowa	Cerro Gordo Co.	19033	ND	ND	ND	ND	ND	50	IN	IN	ND
Iowa	Clinton Co.	19045	ND	ND	ND	ND	0.067	ND	9	21	25
Iowa	Delaware Co.	19055	ND	ND	ND	ND	ND	ND	IN	IN	ND
Iowa	Emmet Co.	19063	ND	ND	ND	ND	ND	ND	IN	IN	ND
Iowa	Harrison Co.	19085	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Iowa	Johnson Co.	19103	ND	ND	ND	ND	ND	ND	8	19	ND
Iowa	Lee Co.	19111	ND	ND	ND	ND	ND	ND	9	20	ND
Iowa	Linn Co.	19113	1	ND	ND	ND	0.069	54	8.4	20	28
Iowa	Montgomery Co.	19137	ND	ND	ND	ND	0.064	ND	6.9	19	ND
Iowa	Muscatine Co.	19139	ND	ND	ND	ND	ND	47	8.8	22	24
Iowa	Palo Alto Co.	19147	ND	ND	ND	ND	0.067	ND	7.3	17	ND
Iowa	Polk Co.	19153	1	ND	7	34	0.065	43	8	18	1
Iowa	Pottawattamie Co.	19155	ND	0.08	ND	ND	ND	57	8.8	22	ND
Iowa	Scott Co.	19163	1	ND	6	30	0.071	140	8.8	21	5
Iowa	Story Co.	19169	ND	ND	ND	ND	ND	ND	IN	IN	ND
Iowa	Tama Co.	19171	ND	ND	ND	ND	ND	ND	IN	IN	ND
Iowa	Van Buren Co.	19177	ND	ND	2	11	0.063	44	7.4	18	IN
Iowa	Woodbury Co.	19193	ND	ND	ND	ND	ND	ND	8.3	20	ND
Iowa	Wright Co.	19197	ND	ND	ND	ND	ND	ND	IN	IN	ND
Kansas	Ford Co.	20057	ND	ND	ND	ND	ND	140	ND	ND	ND
Kansas	Johnson Co.	20091	ND	ND	ND	ND	0.066	ND	IN	IN	ND
Kansas	Leavenworth Co.	20103	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Kansas	Linn Co.	20107	ND	ND	ND	ND	ND	ND	IN	IN	ND
Kansas	Neosho Co.	20133	ND	ND	3	28	0.063	55	IN	IN	3
Kansas	Saline Co.	20169	ND	0.05	ND	ND	ND	ND	ND	ND	ND
Kansas	Sedgwick Co.	20173	ND	ND	8	40	0.067	86	8.2	20	ND
Kansas	Shawnee Co.	20177	ND	ND	ND	ND	0.062	61	9.7	25	ND
Kansas	Sherman Co.	20181	ND	ND	ND	ND	ND	80	ND	ND	ND
Kansas	Sumner Co.	20191	ND	ND	3	22	0.064	56	7.7	18	4
Kansas	Trego Co.	20195	ND	ND	2	IN	0.064	42	IN	IN	4
Kansas	Wyandotte Co.	20209	1	ND	10	IN	0.069	46	IN	IN	6
Kentucky	Bell Co.	21013	ND	ND	ND	ND	0.061	ND	7.6	16	ND
Kentucky	Boone Co.	21015	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Kentucky	Boyd Co.	21019	ND	ND	5	27	0.065	47	7.6	18	8
Kentucky	Bullitt Co.	21029	ND	ND	ND	ND	0.068	ND	IN	IN	ND
Kentucky	Campbell Co.	21037	ND	ND	3	25	0.066	ND	8.3	18	9
Kentucky	Carter Co.	21043	ND	ND	ND	ND	0.063	20	6.3	14	ND
Kentucky	Christian Co.	21047	ND	ND	ND	ND	0.06	ND	8.2	16	ND
Kentucky	Daviess Co.	21059	ND	ND	4	28	0.065	ND	8.5	18	17
Kentucky	Edmonson Co.	21061	0	ND	ND	ND	0.061	ND	IN	IN	5
Kentucky	Fayette Co.	21067	ND	ND	3	31	0.063	51	IN	IN	5
Kentucky	Franklin Co.	21073	ND	ND	ND	ND	ND	ND	IN	IN	ND
Kentucky	Greenup Co.	21089	ND	ND	ND	ND	0.062	ND	ND	ND	11

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Kentucky	Hancock Co.	21091	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Kentucky	Hardin Co.	21093	ND	ND	ND	ND	0.067	ND	8	17	ND
Kentucky	Henderson Co.	21101	ND	ND	ND	ND	0.067	27	9.4	19	102
Kentucky	Jefferson Co.	21111	1	ND	15	46	0.077	44	10.3	25	16
Kentucky	Jessamine Co.	21113	ND	ND	ND	ND	0.063	ND	ND	ND	3
Kentucky	Kenton Co.	21117	ND	ND	ND	ND	ND	ND	IN	IN	ND
Kentucky	Laurel Co.	21125	ND	ND	ND	ND	ND	ND	IN	IN	ND
Kentucky	Livingston Co.	21139	ND	ND	ND	ND	0.067	27	ND	ND	ND
Kentucky	McCracken Co.	21145	ND	ND	5	28	0.066	33	8.5	18	10
Kentucky	Madison Co.	21151	ND	0.29	ND	ND	ND	ND	IN	IN	ND
Kentucky	Morgan Co.	21175	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Kentucky	Ohio Co.	21183	ND	ND	ND	ND	ND	ND	IN	IN	ND
Kentucky	Oldham Co.	21185	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Kentucky	Perry Co.	21193	ND	ND	ND	ND	0.059	ND	7	17	ND
Kentucky	Pike Co.	21195	ND	ND	ND	ND	0.058	ND	7	14	ND
Kentucky	Pulaski Co.	21199	ND	ND	ND	ND	0.06	ND	7.5	16	ND
Kentucky	Simpson Co.	21213	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Kentucky	Trigg Co.	21221	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Kentucky	Warren Co.	21227	ND	ND	ND	ND	0.062	ND	8	18	ND
Kentucky	Washington Co.	21229	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Louisiana	Ascension Parish	22005	ND	ND	6	30	0.07	ND	ND	ND	ND
Louisiana	Bossier Parish	22015	ND	ND	ND	ND	0.066	115	ND	ND	11
Louisiana	Caddo Parish	22017	ND	ND	ND	ND	0.066	ND	10.7	22	ND
Louisiana	Calcasieu Parish	22019	ND	ND	8	42	0.069	ND	7.9	25	31
Louisiana	Concordia Parish	22029	ND	ND	ND	ND	ND	ND	IN	IN	ND
Louisiana	E. Baton Rouge Parish	22033	2	0.01	10	44	0.074	84	9.5	23	29
Louisiana	Iberville Parish	22047	ND	ND	4	IN	0.07	ND	8.9	23	ND
Louisiana	Jefferson Parish	22051	ND	ND	6	37	0.068	ND	8	20	ND
Louisiana	Lafayette Parish	22055	ND	ND	ND	ND	0.065	108	8.4	22	ND
Louisiana	Lafourche Parish	22057	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Louisiana	Livingston Parish	22063	ND	ND	2	13	0.065	ND	ND	ND	ND
Louisiana	Orleans Parish	22071	2	ND	10	45	ND	61	8.4	21	ND
Louisiana	Ouachita Parish	22073	ND	ND	ND	ND	0.057	ND	7.9	24	ND
Louisiana	Plaquemines Parish	22075	ND	ND	ND	ND	ND	ND	IN	IN	ND
Louisiana	Pointe Coupee Parish	22077	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Louisiana	Rapides Parish	22079	ND	ND	ND	ND	ND	ND	8.2	23	ND
Louisiana	St. Bernard Parish	22087	ND	ND	ND	ND	0.07	63	8.6	20	40
Louisiana	St. Charles Parish	22089	ND	ND	ND	ND	ND	ND	IN	IN	53
Louisiana	St. James Parish	22093	ND	ND	ND	ND	0.063	ND	ND	ND	8
Louisiana	St. John Baptist Parish	22095	ND	0.08	ND	ND	0.064	ND	ND	ND	ND
Louisiana	St. Martin Parish	22099	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Louisiana	St. Tammany Parish	22103	ND	ND	ND	ND	0.067	ND	IN	IN	ND
Louisiana	Tangipahoa Parish	22105	ND	ND	ND	ND	ND	ND	7.1	17	ND
Louisiana	Terrebonne Parish	22109	ND	ND	ND	ND	ND	ND	7.2	17	ND
Louisiana	W. Baton Rouge Parish	22121	ND	ND	10	42	0.068	ND	9.3	22	21
Maine	Androscoggin Co.	23001	ND	ND	ND	ND	0.059	27	5.1	15	ND
Maine	Aroostook Co.	23003	ND	ND	ND	ND	0.055	52	7.6	18	ND
Maine	Cumberland Co.	23005	1	ND	8	IN	0.067	69	6.8	16	7
Maine	Franklin Co.	23007	ND	ND	ND	ND	ND	ND	IN	IN	ND
Maine	Hancock Co.	23009	0	ND	ND	ND	0.064	15	3.4	11	1
Maine	Kennebec Co.	23011	ND	ND	3	28	0.062	28	5	12	6
Maine	Knox Co.	23013	ND	ND	ND	ND	0.064	ND	ND	ND	ND

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
Maine	Oxford Co.	23017	ND	ND	ND	ND	0.066	ND	6.3	20	ND
Maine	Penobscot Co.	23019	ND	ND	ND	ND	0.057	43	5.2	14	ND
Maine	Washington Co.	23029	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Maine	York Co.	23031	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Maryland	Allegany Co.	24001	ND	ND	ND	ND	ND	ND	ND	ND	173
Maryland	Anne Arundel Co.	24003	ND	ND	ND	ND	0.075	24	IN	IN	IN
Maryland	Baltimore Co.	24005	1	ND	14	44	0.071	ND	8	18	12
Maryland	Calvert Co.	24009	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Maryland	Carroll Co.	24013	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Maryland	Cecil Co.	24015	ND	ND	ND	ND	0.073	ND	7.9	16	ND
Maryland	Charles Co.	24017	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Maryland	Dorchester Co.	24019	ND	ND	ND	ND	0.068	ND	5.8	14	4
Maryland	Frederick Co.	24021	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Maryland	Garrett Co.	24023	0	ND	2	9	0.065	ND	5.6	14	7
Maryland	Harford Co.	24025	ND	ND	ND	ND	0.074	ND	6.9	16	ND
Maryland	Howard Co.	24027	1	ND	16	42	ND	ND	9.1	19	ND
Maryland	Kent Co.	24029	ND	ND	ND	ND	0.07	ND	6.6	15	ND
Maryland	Montgomery Co.	24031	ND	ND	ND	ND	0.069	ND	IN	IN	ND
Maryland	Prince George's Co.	24033	1	ND	6	33	0.073	21	6.1	16	3
Maryland	Washington Co.	24043	ND	ND	ND	ND	0.066	ND	7.6	20	ND
Maryland	Baltimore city	24510	ND	ND	13	48	0.074	33	8.9	21	ND
Massachusetts	Barnstable Co.	25001	ND	ND	ND	ND	0.071	ND	ND	ND	ND
Massachusetts	Berkshire Co.	25003	ND	ND	ND	ND	0.051	ND	5.9	16	ND
Massachusetts	Bristol Co.	25005	ND	ND	ND	ND	0.075	ND	6.8	15	4
Massachusetts	Dukes Co.	25007	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Massachusetts	Essex Co.	25009	ND	ND	4	34	0.068	ND	5	13	ND
Massachusetts	Franklin Co.	25011	ND	ND	ND	ND	0.066	ND	5.8	18	ND
Massachusetts	Hampden Co.	25013	IN	ND	5	37	0.07	IN	IN	IN	IN
Massachusetts	Hampshire Co.	25015	ND	ND	2	23	0.065	IN	IN	IN	IN
Massachusetts	Middlesex Co.	25017	ND	ND	IN	IN	0.065	ND	IN	IN	ND
Massachusetts	Norfolk Co.	25021	ND	ND	4	32	0.065	ND	IN	IN	ND
Massachusetts	Plymouth Co.	25023	ND	ND	ND	ND	0.07	ND	6	18	ND
Massachusetts	Suffolk Co.	25025	1	ND	13	48	0.067	23	8.9	21	4
Massachusetts	Worcester Co.	25027	1	ND	IN	IN	0.07	IN	6.1	17	4
Michigan	Allegan Co.	26005	ND	ND	ND	ND	0.074	ND	7.6	21	ND
Michigan	Alpena Co.	26007	ND	ND	ND	ND	ND	ND	IN	IN	ND
Michigan	Bay Co.	26017	ND	ND	ND	ND	ND	ND	7.1	18	ND
Michigan	Benzie Co.	26019	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Michigan	Berrien Co.	26021	ND	ND	ND	ND	0.073	ND	IN	IN	ND
Michigan	Cass Co.	26027	ND	ND	ND	ND	0.075	ND	ND	ND	ND
Michigan	Chippewa Co.	26033	ND	ND	ND	ND	0.054	ND	IN	IN	ND
Michigan	Clinton Co.	26037	ND	ND	ND	ND	0.071	ND	ND	ND	ND
Michigan	Dickinson Co.	26043	ND	ND	ND	ND	ND	ND	IN	IN	ND
Michigan	Emmet Co.	26047	ND	ND	ND	ND	ND	ND	IN	IN	ND
Michigan	Genesee Co.	26049	ND	ND	ND	ND	0.069	ND	7.4	22	ND
Michigan	Grand Traverse Co.	26055	ND	ND	ND	ND	ND	ND	IN	IN	ND
Michigan	Huron Co.	26063	ND	ND	ND	ND	0.07	ND	ND	ND	ND
Michigan	Ingham Co.	26065	ND	ND	IN	IN	0.069	ND	IN	IN	IN
Michigan	Ionia Co.	26067	ND	0.05	ND	ND	ND	ND	ND	ND	ND
Michigan	Iron Co.	26071	ND	ND	ND	ND	ND	ND	IN	IN	ND
Michigan	Kalamazoo Co.	26077	ND	ND	ND	ND	0.071	ND	8.5	19	ND
Michigan	Kent Co.	26081	1	0	ND	ND	0.071	30	8.4	19	4
Michigan	Lenawee Co.	26091	ND	ND	ND	ND	0.071	ND	8	23	ND
Michigan	Macomb Co.	26099	ND	ND	ND	ND	0.076	ND	7.8	19	ND
Michigan	Manistee Co.	26101	ND	ND	ND	ND	0.065	ND	6.1	17	ND

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
Michigan	Mason Co.	26105	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Michigan	Missaukee Co.	26113	ND	ND	1	8	0.066	ND	5.4	16	ND
Michigan	Monroe Co.	26115	ND	ND	ND	ND	ND	50	IN	IN	4
Michigan	Muskegon Co.	26121	ND	ND	ND	ND	0.08	ND	IN	IN	ND
Michigan	Oakland Co.	26125	ND	ND	ND	ND	0.077	ND	8.3	20	ND
Michigan	Ottawa Co.	26139	ND	ND	ND	ND	0.073	27	IN	IN	13
Michigan	Saginaw Co.	26145	ND	ND	ND	ND	ND	ND	IN	IN	ND
Michigan	St. Clair Co.	26147	ND	0.08	ND	ND	0.076	ND	8.1	20	82
Michigan	Schoolcraft Co.	26153	ND	ND	ND	ND	0.063	ND	IN	IN	ND
Michigan	Tuscola Co.	26157	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Michigan	Washtenaw Co.	26161	ND	ND	ND	ND	0.072	ND	8.3	21	ND
Michigan	Wayne Co.	26163	2	0.02	16	43	0.074	123	11.5	29	67
Michigan	Wexford Co.	26165	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Minnesota	Anoka Co.	27003	1	0.01	7	45	0.066	46	7.9	23	IN
Minnesota	Becker Co.	27005	ND	IN	ND	ND	0.063	ND	5.6	16	ND
Minnesota	Beltrami Co.	27007	ND	ND	ND	ND	ND	ND	6.2	19	ND
Minnesota	Carlton Co.	27017	ND	ND	ND	ND	0.057	ND	4.7	16	ND
Minnesota	Cass Co.	27021	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Cook Co.	27031	ND	ND	ND	ND	ND	ND	4.8	14	ND
Minnesota	Crow Wing Co.	27035	ND	ND	ND	ND	0.06	ND	5.5	17	ND
Minnesota	Dakota Co.	27037	1	0.08	9	37	ND	ND	7.5	19	17
Minnesota	Douglas Co.	27041	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Freeborn Co.	27047	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Goodhue Co.	27049	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Minnesota	Hennepin Co.	27053	4	0.05	13	IN	0.055	144	8.4	22	IN
Minnesota	Itasca Co.	27061	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Kandiyohi Co.	27067	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Lake Co.	27075	ND	ND	ND	ND	0.058	96	3.5	16	ND
Minnesota	Lyon Co.	27083	ND	ND	ND	ND	0.061	ND	6.1	14	ND
Minnesota	McLeod Co.	27085	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Mille Lacs Co.	27095	ND	ND	ND	ND	0.058	ND	IN	IN	ND
Minnesota	Nicollet Co.	27103	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Olmsted Co.	27109	ND	ND	ND	ND	0.056	ND	8.3	20	ND
Minnesota	Otter Tail Co.	27111	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Ramsey Co.	27123	2	0	ND	ND	ND	59	8.9	23	ND
Minnesota	St. Louis Co.	27137	ND	0.01	ND	ND	0.059	89	5.6	18	ND
Minnesota	Scott Co.	27139	ND	ND	ND	ND	0.065	ND	7.2	21	ND
Minnesota	Stearns Co.	27145	ND	ND	ND	ND	0.066	ND	6.5	18	ND
Minnesota	Washington Co.	27163	ND	0	ND	ND	0.061	128	8.4	25	4
Minnesota	Winona Co.	27169	ND	ND	ND	ND	ND	ND	IN	IN	ND
Minnesota	Wright Co.	27171	ND	ND	ND	ND	0.069	ND	6.9	19	ND
Mississippi	Adams Co.	28001	ND	ND	ND	ND	ND	ND	IN	IN	ND
Mississippi	Bolivar Co.	28011	ND	ND	ND	ND	0.069	ND	IN	IN	ND
Mississippi	DeSoto Co.	28033	ND	ND	ND	ND	0.069	ND	7.5	17	ND
Mississippi	Forrest Co.	28035	ND	ND	ND	ND	ND	ND	8.7	23	ND
Mississippi	Grenada Co.	28043	ND	ND	ND	ND	ND	ND	7.1	17	ND
Mississippi	Hancock Co.	28045	ND	ND	ND	ND	0.065	ND	8.1	18	ND
Mississippi	Harrison Co.	28047	ND	ND	ND	ND	0.068	ND	7.8	17	ND
Mississippi	Hinds Co.	28049	2	ND	7	38	0.068	80	8.9	24	3
Mississippi	Jackson Co.	28059	ND	ND	4	28	0.067	ND	7.9	17	6
Mississippi	Jones Co.	28067	ND	ND	ND	ND	ND	ND	IN	IN	ND
Mississippi	Lauderdale Co.	28075	ND	ND	ND	ND	0.062	ND	IN	IN	ND
Mississippi	Lee Co.	28081	ND	ND	ND	ND	0.06	ND	IN	IN	ND
Mississippi	Lowndes Co.	28087	ND	ND	ND	ND	ND	ND	IN	IN	ND
Mississippi	Pearl River Co.	28109	ND	ND	ND	ND	ND	ND	IN	IN	ND

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Mississippi	Rankin Co.	28121	ND	ND	ND	ND	ND	ND	IN	IN	ND
Mississippi	Scott Co.	28123	ND	ND	ND	ND	ND	ND	IN	IN	ND
Mississippi	Warren Co.	28149	ND	ND	ND	ND	ND	ND	IN	IN	ND
Mississippi	Yalobusha Co.	28161	ND	ND	ND	ND	0.056	ND	ND	ND	ND
Missouri	Andrew Co.	29003	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Missouri	Boone Co.	29019	ND	ND	ND	ND	0.063	ND	IN	IN	ND
Missouri	Buchanan Co.	29021	ND	ND	ND	ND	ND	87	8.9	18	ND
Missouri	Callaway Co.	29027	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Missouri	Cass Co.	29037	ND	ND	ND	ND	0.066	ND	6.5	15	ND
Missouri	Cedar Co.	29039	ND	ND	ND	ND	0.064	ND	7.4	20	ND
Missouri	Clay Co.	29047	ND	ND	ND	ND	0.074	ND	6.1	16	ND
Missouri	Clinton Co.	29049	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Missouri	Franklin Co.	29071	ND	ND	ND	ND	ND	ND	ND	ND	38
Missouri	Greene Co.	29077	ND	ND	ND	ND	0.065	39	7.6	18	ND
Missouri	Holt Co.	29087	ND	0.02	ND	ND	ND	ND	ND	ND	ND
Missouri	Howell Co.	29091	ND	ND	ND	ND	ND	ND	IN	IN	ND
Missouri	Iron Co.	29093	ND	0.1	ND	ND	ND	ND	ND	ND	52
Missouri	Jackson Co.	29095	1	ND	12	48	ND	61	8.2	17	6
Missouri	Jasper Co.	29097	ND	ND	ND	ND	0.067	91	IN	IN	ND
Missouri	Jefferson Co.	29099	ND	0.11	ND	ND	0.071	52	IN	IN	20
Missouri	Lincoln Co.	29113	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Missouri	Maries Co.	29125	ND	ND	ND	ND	ND	ND	IN	IN	ND
Missouri	Mercer Co.	29129	ND	ND	ND	ND	ND	ND	IN	IN	ND
Missouri	Monroe Co.	29137	ND	ND	2	9	0.064	28	IN	IN	4
Missouri	New Madrid Co.	29143	ND	ND	ND	ND	ND	ND	ND	ND	370
Missouri	Perry Co.	29157	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Missouri	Reynolds Co.	29179	ND	0.04	ND	ND	ND	ND	ND	ND	ND
Missouri	St. Charles Co.	29183	ND	ND	ND	ND	0.075	ND	IN	IN	22
Missouri	Ste. Genevieve Co.	29186	ND	ND	ND	ND	0.065	ND	IN	IN	ND
Missouri	St. Francois Co.	29187	ND	0.02	ND	ND	ND	ND	ND	ND	ND
Missouri	St. Louis Co.	29189	ND	ND	10	40	0.071	ND	9.3	21	12
Missouri	St. Louis city	29510	1	ND	11	47	0.077	87	9.1	21	16
Montana	Cascade Co.	30013	ND	ND	ND	ND	ND	ND	IN	IN	ND
Montana	Fergus Co.	30027	ND	ND	1	IN	0.062	70	5.3	26	ND
Montana	Flathead Co.	30029	ND	ND	ND	ND	0.055	135	10.1	49	ND
Montana	Gallatin Co.	30031	1	ND	2	IN	ND	ND	3.5	25	ND
Montana	Lake Co.	30047	ND	ND	ND	ND	ND	ND	IN	IN	ND
Montana	Lewis and Clark Co.	30049	1	ND	ND	ND	0.062	ND	8.8	40	8
Montana	Lincoln Co.	30053	ND	ND	ND	ND	ND	106	14.6	68	ND
Montana	Missoula Co.	30063	ND	ND	ND	ND	0.053	63	8	29	ND
Montana	Phillips Co.	30071	ND	ND	1	IN	0.058	77	5.8	28	ND
Montana	Powder River Co.	30075	ND	ND	1	9	0.066	91	7	27	ND
Montana	Ravalli Co.	30081	ND	ND	ND	ND	ND	ND	5.9	24	ND
Montana	Richland Co.	30083	ND	ND	1	12	0.062	54	IN	IN	6
Montana	Rosebud Co.	30087	ND	ND	1	IN	0.059	66	5.9	26	ND
Montana	Sanders Co.	30089	ND	ND	ND	ND	ND	70	IN	IN	ND
Montana	Silver Bow Co.	30093	ND	ND	ND	ND	ND	66	5.6	22	ND
Montana	Yellowstone Co.	30111	ND	ND	ND	ND	ND	ND	8.4	28	22
Nebraska	Cass Co.	31025	ND	ND	ND	ND	ND	62	IN	IN	ND
Nebraska	Cedar Co.	31027	ND	ND	ND	ND	ND	ND	IN	IN	ND
Nebraska	Cherry Co.	31031	ND	ND	ND	ND	ND	ND	IN	IN	ND
Nebraska	Deuel Co.	31049	ND	ND	ND	ND	ND	ND	IN	IN	ND
Nebraska	Dodge Co.	31053	ND	0.02	ND	ND	ND	ND	ND	ND	ND
Nebraska	Douglas Co.	31055	1	ND	ND	ND	0.07	54	8.3	22	37

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
Nebraska	Hall Co.	31079	ND	ND	ND	ND	ND	ND	6.2	19	ND
Nebraska	Knox Co.	31107	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Nebraska	Lancaster Co.	31109	ND	ND	ND	ND	0.062	ND	7.1	19	10
Nebraska	Lincoln Co.	31111	ND	ND	ND	ND	ND	ND	IN	IN	ND
Nebraska	Sarpy Co.	31153	ND	ND	ND	ND	ND	ND	9.1	21	ND
Nebraska	Scotts Bluff Co.	31157	ND	ND	ND	ND	ND	ND	6.3	18	ND
Nebraska	Washington Co.	31177	ND	ND	ND	ND	ND	ND	7.6	21	ND
Nevada	Churchill Co.	32001	ND	ND	ND	ND	0.074	ND	ND	ND	ND
Nevada	Clark Co.	32003	3	ND	27	59	0.081	133	9.6	26	IN
Nevada	Douglas Co.	32005	ND	ND	ND	ND	ND	ND	7.3	40	ND
Nevada	Elko Co.	32007	ND	ND	ND	ND	ND	119	ND	ND	ND
Nevada	Lyon Co.	32019	ND	ND	ND	ND	0.073	ND	ND	ND	ND
Nevada	Nye Co.	32023	ND	ND	ND	ND	ND	150	ND	ND	ND
Nevada	Washoe Co.	32031	2	ND	13	46	0.078	126	8	35	4
Nevada	White Pine Co.	32033	ND	ND	ND	ND	0.071	ND	ND	ND	ND
Nevada	Carson City	32510	ND	ND	ND	ND	0.071	ND	7.1	42	ND
New Hampshire	Belknap Co.	33001	ND	ND	ND	ND	0.056	ND	4.5	11	ND
New Hampshire	Cheshire Co.	33005	ND	ND	ND	ND	0.061	ND	5.3	17	ND
New Hampshire	Coos Co.	33007	ND	ND	ND	ND	0.069	ND	IN	IN	ND
New Hampshire	Grafton Co.	33009	ND	ND	ND	ND	0.061	ND	6.2	16	ND
New Hampshire	Hillsborough Co.	33011	0	ND	ND	ND	0.066	ND	3.2	12	3
New Hampshire	Merrimack Co.	33013	ND	ND	ND	ND	0.06	ND	IN	IN	15
New Hampshire	Rockingham Co.	33015	0	ND	3	19	0.069	31	5	14	14
New Hampshire	Sullivan Co.	33019	ND	ND	ND	ND	ND	ND	IN	IN	ND
New Jersey	Atlantic Co.	34001	ND	ND	ND	ND	0.063	ND	6.4	15	2
New Jersey	Bergen Co.	34003	2	ND	17	68	0.079	ND	11.1	27	ND
New Jersey	Camden Co.	34007	1	ND	11	45	0.075	33	10	22	7
New Jersey	Cumberland Co.	34011	ND	ND	5	32	0.063	ND	IN	IN	ND
New Jersey	Essex Co.	34013	2	ND	14	52	0.071	38	8.4	21	4
New Jersey	Gloucester Co.	34015	ND	ND	ND	ND	0.077	ND	7	16	ND
New Jersey	Hudson Co.	34017	2	ND	19	58	0.078	33	8.2	20	5
New Jersey	Hunterdon Co.	34019	ND	ND	ND	ND	0.072	ND	7.9	19	ND
New Jersey	Mercer Co.	34021	ND	ND	ND	ND	0.077	ND	7.8	18	ND
New Jersey	Middlesex Co.	34023	ND	ND	8	42	0.076	ND	8	19	ND
New Jersey	Monmouth Co.	34025	ND	ND	ND	ND	0.068	ND	ND	ND	ND
New Jersey	Morris Co.	34027	ND	ND	3	31	0.073	ND	5.9	15	3
New Jersey	Ocean Co.	34029	ND	ND	ND	ND	0.074	ND	6.3	17	ND
New Jersey	Passaic Co.	34031	ND	ND	ND	ND	0.069	ND	7.6	19	ND
New Jersey	Union Co.	34039	3	ND	19	61	ND	ND	8.9	22	7
New Jersey	Warren Co.	34041	ND	ND	9	41	0.067	ND	7.7	20	6
New Mexico	Bernalillo Co.	35001	1	ND	10	45	0.075	229	8.3	21	5
New Mexico	Chaves Co.	35005	ND	ND	ND	ND	ND	ND	IN	IN	ND
New Mexico	Doña Ana Co.	35013	ND	ND	7	47	0.081	325	8.2	22	ND
New Mexico	Eddy Co.	35015	ND	ND	5	30	0.083	ND	ND	ND	ND
New Mexico	Grant Co.	35017	ND	ND	ND	ND	ND	ND	IN	IN	ND
New Mexico	Lea Co.	35025	ND	ND	5	36	0.076	ND	8	18	ND
New Mexico	Luna Co.	35029	ND	ND	ND	ND	ND	186	ND	ND	ND
New Mexico	Rio Arriba Co.	35039	ND	ND	ND	ND	0.07	ND	ND	ND	ND
New Mexico	Sandoval Co.	35043	ND	ND	ND	ND	0.073	IN	IN	IN	ND

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New Mexico	San Juan Co.	35045	ND	ND	10	34	0.074	84	IN	IN	9
New Mexico	Santa Fe Co.	35049	ND	ND	ND	ND	0.069	ND	3.8	9	ND
New Mexico	Taos Co.	35055	ND	ND	ND	ND	ND	ND	6.3	15	ND
New Mexico	Valencia Co.	35061	ND	ND	ND	ND	0.071	ND	ND	ND	ND
New York	Albany Co.	36001	1	ND	ND	ND	0.064	ND	7.5	19	2
New York	Bronx Co.	36005	1	ND	17	IN	0.077	30	8.3	22	8
New York	Broome Co.	36007	ND	ND	ND	ND	ND	ND	IN	IN	ND
New York	Chautauqua Co.	36013	ND	ND	ND	ND	0.071	ND	6.6	17	3
New York	Dutchess Co.	36027	ND	ND	ND	ND	0.065	ND	IN	IN	3
New York	Erie Co.	36029	1	ND	10	47	0.069	35	7.6	19	7
New York	Essex Co.	36031	ND	ND	ND	ND	0.069	ND	3.4	13	1
New York	Franklin Co.	36033	ND	ND	ND	ND	ND	ND	ND	ND	1
New York	Hamilton Co.	36041	ND	ND	ND	ND	0.063	ND	ND	ND	1
New York	Herkimer Co.	36043	ND	ND	ND	ND	0.064	ND	ND	ND	IN
New York	Jefferson Co.	36045	ND	ND	ND	ND	0.068	ND	ND	ND	ND
New York	Kings Co.	36047	ND	ND	ND	ND	ND	ND	7.9	18	ND
New York	Monroe Co.	36055	1	ND	9	37	0.071	31	7.3	19	8
New York	Nassau Co.	36059	ND	ND	ND	ND	ND	ND	IN	IN	8
New York	New York Co.	36061	1	ND	ND	ND	0.077	38	10.4	27	ND
New York	Niagara Co.	36063	ND	ND	ND	ND	0.069	ND	IN	IN	ND
New York	Oneida Co.	36065	ND	ND	ND	ND	ND	ND	IN	IN	ND
New York	Onondaga Co.	36067	ND	ND	ND	ND	0.066	ND	5.1	16	2
New York	Orange Co.	36071	ND	ND	ND	ND	0.064	ND	6.4	16	ND
New York	Oswego Co.	36075	ND	ND	ND	ND	0.067	ND	ND	ND	ND
New York	Putnam Co.	36079	ND	ND	ND	ND	0.067	ND	ND	ND	3
New York	Queens Co.	36081	2	ND	16	54	0.073	29	8.3	20	6
New York	Richmond Co.	36085	ND	ND	ND	ND	0.077	ND	IN	IN	ND
New York	Rockland Co.	36087	ND	ND	ND	ND	0.072	ND	ND	ND	ND
New York	St. Lawrence Co.	36089	ND	ND	ND	ND	ND	ND	IN	IN	87
New York	Saratoga Co.	36091	ND	ND	ND	ND	0.067	ND	ND	ND	ND
New York	Schenectady Co.	36093	ND	ND	ND	ND	ND	ND	IN	IN	ND
New York	Seneca Co.	36099	ND	ND	ND	ND	ND	ND	ND	ND	2
New York	Steuben Co.	36101	0	ND	ND	ND	0.064	ND	4.8	14	2
New York	Suffolk Co.	36103	ND	ND	ND	ND	0.076	ND	6.8	17	5
New York	Tompkins Co.	36109	ND	ND	ND	ND	0.067	ND	ND	ND	52
New York	Wayne Co.	36117	ND	ND	ND	ND	0.071	ND	ND	ND	ND
New York	Westchester Co.	36119	ND	ND	ND	ND	0.078	ND	IN	IN	ND
N. Carolina	Alamance Co.	37001	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Alexander Co.	37003	ND	ND	ND	ND	0.064	ND	ND	ND	ND
N. Carolina	Avery Co.	37011	ND	ND	ND	ND	0.064	ND	ND	ND	ND
N. Carolina	Beaufort Co.	37013	ND	ND	ND	ND	ND	ND	ND	ND	IN
N. Carolina	Brunswick Co.	37019	ND	ND	ND	ND	ND	ND	ND	ND	IN
N. Carolina	Buncombe Co.	37021	ND	ND	ND	ND	0.063	ND	6	12	10
N. Carolina	Cabarrus Co.	37025	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Caldwell Co.	37027	ND	ND	ND	ND	0.065	ND	ND	ND	ND
N. Carolina	Carteret Co.	37031	ND	ND	ND	ND	0.06	ND	ND	ND	ND
N. Carolina	Caswell Co.	37033	ND	ND	ND	ND	0.065	ND	IN	IN	ND
N. Carolina	Catawba Co.	37035	ND	ND	ND	ND	ND	ND	8.1	18	ND
N. Carolina	Chatham Co.	37037	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Cumberland Co.	37051	ND	ND	ND	ND	0.064	26	7.1	15	IN
N. Carolina	Davidson Co.	37057	ND	ND	ND	ND	ND	ND	9.3	21	ND
N. Carolina	Duplin Co.	37061	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Durham Co.	37063	ND	ND	ND	ND	0.063	29	8.3	17	6
N. Carolina	Edgecombe Co.	37065	ND	ND	ND	ND	0.062	ND	IN	IN	ND
N. Carolina	Forsyth Co.	37067	ND	ND	7	35	0.067	30	9.1	22	5

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N. Carolina	Gaston Co.	37071	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Graham Co.	37075	ND	ND	ND	ND	0.064	ND	ND	ND	ND
N. Carolina	Granville Co.	37077	ND	ND	ND	ND	0.065	ND	ND	ND	ND
N. Carolina	Guilford Co.	37081	ND	ND	ND	ND	0.067	32	7.3	15	ND
N. Carolina	Haywood Co.	37087	ND	ND	ND	ND	0.065	ND	IN	IN	213
N. Carolina	Jackson Co.	37099	ND	ND	ND	ND	ND	ND	6.6	16	ND
N. Carolina	Johnston Co.	37101	ND	ND	ND	ND	0.063	ND	8.1	15	ND
N. Carolina	Lee Co.	37105	ND	ND	IN	IN	0.06	ND	IN	IN	IN
N. Carolina	Lenoir Co.	37107	ND	ND	ND	ND	0.064	20	IN	IN	ND
N. Carolina	Lincoln Co.	37109	ND	ND	ND	ND	0.063	ND	ND	ND	ND
N. Carolina	McDowell Co.	37111	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Macon Co.	37113	ND	ND	ND	ND	0.063	ND	ND	ND	ND
N. Carolina	Martin Co.	37117	ND	ND	ND	ND	0.061	20	IN	IN	ND
N. Carolina	Mecklenburg Co.	37119	1	ND	10	35	0.07	58	8.9	17	3
N. Carolina	Mitchell Co.	37121	ND	ND	ND	ND	ND	ND	5.7	15	ND
N. Carolina	Montgomery Co.	37123	ND	ND	ND	ND	0.059	ND	6.7	13	ND
N. Carolina	Nash Co.	37127	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	New Hanover Co.	37129	ND	ND	ND	ND	0.062	ND	3.5	11	ND
N. Carolina	Onslow Co.	37133	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Orange Co.	37135	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Pasquotank Co.	37139	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Person Co.	37145	ND	ND	ND	ND	0.063	ND	ND	ND	25
N. Carolina	Pitt Co.	37147	ND	ND	ND	ND	0.066	ND	6.1	12	ND
N. Carolina	Robeson Co.	37155	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Rockingham Co.	37157	ND	ND	ND	ND	0.065	ND	ND	ND	IN
N. Carolina	Rowan Co.	37159	ND	ND	ND	ND	0.06	ND	IN	IN	ND
N. Carolina	Swain Co.	37173	ND	ND	ND	ND	0.061	ND	7.7	17	ND
N. Carolina	Union Co.	37179	ND	ND	ND	ND	0.07	ND	ND	ND	ND
N. Carolina	Wake Co.	37183	1	ND	9	34	0.063	28	7.9	16	3
N. Carolina	Watauga Co.	37189	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Wayne Co.	37191	ND	ND	ND	ND	ND	ND	IN	IN	ND
N. Carolina	Yancey Co.	37199	ND	ND	ND	ND	0.063	ND	ND	ND	ND
North Dakota	Billings Co.	38007	ND	ND	ND	ND	0.061	ND	4.3	19	IN
North Dakota	Burke Co.	38013	ND	ND	2	12	0.062	62	2.7	20	19
North Dakota	Burleigh Co.	38015	0	ND	5	34	0.058	96	6	21	9
North Dakota	Cass Co.	38017	ND	ND	4	32	0.063	74	7	22	3
North Dakota	Dunn Co.	38025	ND	ND	IN	IN	0.06	32	IN	IN	IN
North Dakota	Grand Forks Co.	38035	ND	ND	ND	ND	ND	ND	IN	IN	ND
North Dakota	McKenzie Co.	38053	ND	ND	2	9	0.061	49	5.2	22	6
North Dakota	Mercer Co.	38057	ND	ND	3	19	0.064	52	5.6	21	23
North Dakota	Oliver Co.	38065	ND	ND	2	13	0.063	61	6.3	21	10
North Dakota	Stark Co.	38089	ND	ND	ND	ND	ND	ND	IN	IN	ND
North Dakota	Steele Co.	38091	ND	ND	ND	ND	ND	ND	IN	IN	ND
North Dakota	Ward Co.	38101	ND	ND	2	12	0.061	56	5.7	26	8
North Dakota	Williams Co.	38105	ND	ND	ND	ND	0.061	51	6.1	23	63
Ohio	Adams Co.	39001	ND	ND	ND	ND	ND	ND	ND	ND	IN
Ohio	Allen Co.	39003	ND	ND	ND	ND	0.075	ND	8.3	18	4
Ohio	Ashtabula Co.	39007	ND	ND	ND	ND	0.069	ND	ND	ND	5
Ohio	Athens Co.	39009	ND	ND	ND	ND	ND	ND	6.7	14	ND
Ohio	Belmont Co.	39013	1	ND	8	32	ND	52	7.7	17	5
Ohio	Butler Co.	39017	ND	ND	ND	ND	0.076	83	10.2	21	22
Ohio	Clark Co.	39023	ND	ND	ND	ND	0.071	ND	9.8	25	4
Ohio	Clermont Co.	39025	ND	ND	ND	ND	0.069	ND	IN	IN	ND
Ohio	Clinton Co.	39027	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Ohio	Columbiana Co.	39029	ND	0.03	ND	ND	ND	26	ND	ND	IN

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Ohio	Cuyahoga Co.	39035	3	0.06	11	49	0.075	74	11.1	24	41
Ohio	Delaware Co.	39041	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Ohio	Fayette Co.	39047	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Ohio	Franklin Co.	39049	1	0.01	10	44	0.066	47	9.1	25	IN
Ohio	Fulton Co.	39051	ND	0.09	ND	ND	ND	ND	ND	ND	ND
Ohio	Gallia Co.	39053	ND	ND	ND	ND	ND	ND	ND	ND	41
Ohio	Geauga Co.	39055	ND	ND	ND	ND	0.073	ND	ND	ND	ND
Ohio	Greene Co.	39057	ND	ND	ND	ND	0.066	22	8.1	20	ND
Ohio	Hamilton Co.	39061	2	ND	19	41	0.08	39	12.4	22	24
Ohio	Harrison Co.	39067	IN	ND	ND	ND	ND	IN	IN	IN	ND
Ohio	Jefferson Co.	39081	ND	ND	ND	ND	0.068	46	8.7	19	34
Ohio	Knox Co.	39083	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Ohio	Lake Co.	39085	1	ND	ND	ND	0.076	IN	7	19	53
Ohio	Lawrence Co.	39087	ND	ND	ND	ND	0.066	23	6.4	14	IN
Ohio	Licking Co.	39089	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Ohio	Lorain Co.	39093	ND	ND	ND	ND	0.069	24	7.8	20	ND
Ohio	Lucas Co.	39095	ND	ND	ND	ND	0.078	ND	8.9	22	32
Ohio	Madison Co.	39097	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Ohio	Mahoning Co.	39099	ND	ND	ND	ND	0.064	39	7.8	17	5
Ohio	Marion Co.	39101	ND	0.02	ND	ND	ND	ND	ND	ND	ND
Ohio	Medina Co.	39103	ND	ND	ND	ND	0.066	ND	7.8	19	ND
Ohio	Miami Co.	39109	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Ohio	Montgomery Co.	39113	1	ND	ND	ND	0.073	35	8.3	21	ND
Ohio	Morgan Co.	39115	ND	ND	ND	ND	ND	ND	ND	ND	IN
Ohio	Noble Co.	39121	ND	ND	ND	ND	0.06	ND	ND	ND	ND
Ohio	Portage Co.	39133	ND	ND	ND	ND	0.067	ND	7.3	17	ND
Ohio	Preble Co.	39135	0	ND	ND	ND	0.067	ND	8.7	20	9
Ohio	Scioto Co.	39145	ND	ND	ND	ND	ND	42	7.1	16	29
Ohio	Stark Co.	39151	1	0.2	ND	ND	0.07	ND	9.5	22	ND
Ohio	Summit Co.	39153	2	ND	ND	ND	0.069	ND	8.8	20	6
Ohio	Trumbull Co.	39155	ND	ND	ND	ND	0.071	24	7.7	19	ND
Ohio	Warren Co.	39165	ND	ND	ND	ND	0.075	ND	IN	IN	ND
Ohio	Washington Co.	39167	ND	0	ND	ND	0.066	ND	ND	ND	ND
Ohio	Wood Co.	39173	ND	ND	ND	ND	0.069	ND	ND	ND	ND
Oklahoma	Adair Co.	40001	1	ND	ND	ND	0.063	60	IN	IN	3
Oklahoma	Bryan Co.	40013	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Oklahoma	Caddo Co.	40015	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oklahoma	Canadian Co.	40017	ND	ND	ND	ND	0.076	ND	IN	IN	ND
Oklahoma	Carter Co.	40019	ND	ND	ND	ND	ND	ND	8.6	24	ND
Oklahoma	Cherokee Co.	40021	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oklahoma	Choctaw Co.	40023	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Oklahoma	Cleveland Co.	40027	ND	ND	ND	ND	0.071	ND	10.1	23	ND
Oklahoma	Comanche Co.	40031	ND	ND	ND	ND	0.072	ND	7.1	18	ND
Oklahoma	Creek Co.	40037	ND	0.01	ND	ND	0.069	ND	ND	ND	ND
Oklahoma	Custer Co.	40039	ND	ND	ND	ND	ND	84	IN	IN	ND
Oklahoma	Dewey Co.	40043	ND	ND	ND	ND	0.073	ND	8.2	18	ND
Oklahoma	Garfield Co.	40047	ND	ND	ND	ND	ND	ND	IN	IN	44
Oklahoma	Jefferson Co.	40067	ND	ND	ND	ND	0.076	ND	ND	ND	ND
Oklahoma	Kay Co.	40071	ND	ND	ND	ND	0.06	ND	8.3	20	31
Oklahoma	Le Flore Co.	40079	ND	ND	ND	ND	ND	IN	IN	IN	ND
Oklahoma	Lincoln Co.	40081	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oklahoma	Love Co.	40085	ND	ND	ND	ND	0.075	ND	IN	IN	ND
Oklahoma	McClain Co.	40087	ND	ND	ND	ND	0.07	ND	ND	ND	ND
Oklahoma	Mayes Co.	40097	ND	ND	ND	ND	0.065	ND	IN	IN	25
Oklahoma	Muskogee Co.	40101	ND	ND	ND	ND	ND	155	IN	IN	31

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Oklahoma	Nowata Co.	40105	ND	ND	ND	ND	0.066	ND	9	24	ND
Oklahoma	Oklahoma Co.	40109	2	ND	13	41	0.072	92	9.6	24	3
Oklahoma	Osage Co.	40113	ND	ND	ND	ND	0.073	ND	ND	ND	ND
Oklahoma	Ottawa Co.	40115	ND	0.02	ND	ND	0.063	55	IN	IN	ND
Oklahoma	Pawnee Co.	40117	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oklahoma	Payne Co.	40119	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oklahoma	Pittsburg Co.	40121	ND	0	ND	ND	0.069	ND	8.7	27	ND
Oklahoma	Pottawatomie Co.	40125	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oklahoma	Seminole Co.	40133	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oklahoma	Sequoyah Co.	40135	ND	ND	5	IN	0.062	ND	8.2	19	ND
Oklahoma	Tulsa Co.	40143	1	ND	7	39	0.073	59	10.5	27	8
Oklahoma	Washington Co.	40147	ND	ND	ND	ND	0.031	ND	IN	IN	ND
Oregon	Benton Co.	41003	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oregon	Clackamas Co.	41005	ND	ND	ND	ND	0.07	ND	ND	ND	ND
Oregon	Columbia Co.	41009	ND	ND	ND	ND	0.053	ND	IN	IN	ND
Oregon	Crook Co.	41013	ND	ND	ND	ND	ND	ND	8.9	33	ND
Oregon	Deschutes Co.	41017	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oregon	Douglas Co.	41019	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oregon	Harney Co.	41025	ND	ND	ND	ND	ND	ND	10.1	36	ND
Oregon	Jackson Co.	41029	ND	ND	ND	ND	0.074	66	IN	169	ND
Oregon	Josephine Co.	41033	ND	ND	ND	ND	ND	ND	12.2	75	ND
Oregon	Klamath Co.	41035	ND	ND	ND	ND	ND	ND	18.6	146	ND
Oregon	Lake Co.	41037	ND	ND	ND	ND	ND	ND	12.8	66	ND
Oregon	Lane Co.	41039	ND	ND	ND	ND	0.06	83	9	39	ND
Oregon	Linn Co.	41043	ND	ND	ND	ND	ND	ND	IN	IN	ND
Oregon	Marion Co.	41047	ND	ND	ND	ND	0.066	ND	IN	IN	ND
Oregon	Multnomah Co.	41051	2	ND	9	35	0.067	27	7.4	20	3
Oregon	Umatilla Co.	41059	ND	ND	ND	ND	0.06	ND	IN	IN	ND
Oregon	Union Co.	41061	ND	ND	ND	ND	ND	51	IN	IN	ND
Oregon	Wasco Co.	41065	ND	ND	ND	ND	0.053	IN	IN	IN	ND
Oregon	Washington Co.	41067	1	ND	12	38	0.054	ND	8	32	ND
Pennsylvania	Adams Co.	42001	0	ND	IN	IN	0.068	ND	7.7	20	IN
Pennsylvania	Allegheny Co.	42003	3	ND	10	37	0.074	67	11.5	28	130
Pennsylvania	Armstrong Co.	42005	ND	ND	ND	ND	0.067	ND	7.8	18	ND
Pennsylvania	Beaver Co.	42007	ND	0	7	38	0.071	60	9.2	21	23
Pennsylvania	Berks Co.	42011	ND	0.02	ND	ND	0.071	ND	8.2	23	IN
Pennsylvania	Blair Co.	42013	ND	ND	ND	ND	0.063	19	7.6	22	8
Pennsylvania	Bradford Co.	42015	ND	ND	2	17	0.064	ND	6.7	18	ND
Pennsylvania	Bucks Co.	42017	ND	ND	ND	ND	0.084	ND	IN	IN	ND
Pennsylvania	Cambria Co.	42021	1	ND	5	34	0.059	32	8.4	19	17
Pennsylvania	Carbon Co.	42025	ND	0.13	ND	ND	ND	ND	ND	ND	ND
Pennsylvania	Centre Co.	42027	ND	ND	2	IN	0.064	ND	8.7	23	5
Pennsylvania	Chester Co.	42029	ND	ND	ND	ND	0.065	ND	IN	IN	ND
Pennsylvania	Clearfield Co.	42033	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Pennsylvania	Cumberland Co.	42041	ND	ND	ND	ND	ND	ND	8	24	ND
Pennsylvania	Dauphin Co.	42043	ND	ND	ND	ND	0.068	35	8	21	ND
Pennsylvania	Delaware Co.	42045	ND	IN	8	38	0.073	ND	12.1	IN	ND
Pennsylvania	Elk Co.	42047	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Pennsylvania	Erie Co.	42049	1	ND	IN	IN	0.062	32	8.7	21	ND
Pennsylvania	Fayette Co.	42051	ND	ND	IN	IN	0.061	ND	IN	IN	ND
Pennsylvania	Franklin Co.	42055	ND	ND	ND	ND	0.059	ND	ND	ND	ND
Pennsylvania	Greene Co.	42059	ND	ND	ND	ND	0.067	ND	6.4	14	ND
Pennsylvania	Indiana Co.	42063	ND	ND	ND	ND	0.068	ND	ND	ND	28
Pennsylvania	Lackawanna Co.	42069	1	ND	8	39	0.061	ND	IN	IN	ND
Pennsylvania	Lancaster Co.	42071	ND	0.06	ND	ND	0.069	38	9.5	24	ND

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Pennsylvania	Lawrence Co.	42073	ND	0.03	ND	ND	0.066	ND	ND	ND	IN
Pennsylvania	Lebanon Co.	42075	ND	ND	ND	ND	0.07	ND	8.8	23	ND
Pennsylvania	Lehigh Co.	42077	ND	ND	ND	ND	0.067	40	8.9	21	ND
Pennsylvania	Luzerne Co.	42079	ND	0	ND	ND	0.067	32	IN	IN	3
Pennsylvania	Lycoming Co.	42081	ND	ND	ND	ND	0.063	IN	ND	ND	ND
Pennsylvania	Mercer Co.	42085	ND	ND	ND	ND	0.07	ND	IN	IN	ND
Pennsylvania	Monroe Co.	42089	ND	ND	ND	ND	0.07	ND	IN	IN	ND
Pennsylvania	Montgomery Co.	42091	ND	ND	ND	ND	0.073	ND	7.7	19	ND
Pennsylvania	Northampton Co.	42095	ND	ND	6	34	0.073	ND	8.1	23	IN
Pennsylvania	Perry Co.	42099	ND	ND	ND	ND	ND	ND	IN	IN	ND
Pennsylvania	Philadelphia Co.	42101	1	ND	11	43	0.079	45	9.8	23	14
Pennsylvania	Somerset Co.	42111	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Pennsylvania	Susquehanna Co.	42115	ND	ND	ND	ND	ND	ND	IN	IN	ND
Pennsylvania	Tioga Co.	42117	ND	ND	1	10	0.066	ND	5.5	16	ND
Pennsylvania	Warren Co.	42123	ND	ND	ND	ND	ND	ND	ND	ND	30
Pennsylvania	Washington Co.	42125	ND	ND	5	33	0.066	ND	8.3	18	10
Pennsylvania	Westmoreland Co.	42129	ND	0	ND	ND	0.064	ND	6.9	16	ND
Pennsylvania	York Co.	42133	IN	ND	IN	IN	0.065	ND	IN	IN	8
Rhode Island	Kent Co.	44003	ND	ND	ND	ND	0.074	ND	6.1	16	ND
Rhode Island	Providence Co.	44007	2	ND	17	37	0.079	36	8.9	20	3
Rhode Island	Washington Co.	44009	ND	ND	ND	ND	0.071	ND	5.4	17	ND
South Carolina	Aiken Co.	45003	ND	ND	ND	ND	0.066	ND	IN	IN	ND
South Carolina	Anderson Co.	45007	ND	ND	ND	ND	0.053	ND	ND	ND	ND
South Carolina	Beaufort Co.	45013	ND	ND	ND	ND	ND	ND	IN	IN	ND
South Carolina	Berkeley Co.	45015	ND	ND	ND	ND	0.056	ND	IN	IN	ND
South Carolina	Charleston Co.	45019	ND	ND	1	IN	0.06	31	6.8	14	13
South Carolina	Chesterfield Co.	45025	ND	ND	ND	ND	0.064	IN	IN	IN	ND
South Carolina	Colleton Co.	45029	ND	ND	ND	ND	0.056	ND	IN	IN	ND
South Carolina	Darlington Co.	45031	ND	ND	ND	ND	0.058	ND	ND	ND	ND
South Carolina	Edgefield Co.	45037	ND	ND	ND	ND	0.059	ND	IN	IN	ND
South Carolina	Florence Co.	45041	ND	0.07	ND	ND	ND	ND	IN	IN	ND
South Carolina	Georgetown Co.	45043	ND	ND	ND	ND	ND	47	IN	IN	ND
South Carolina	Greenville Co.	45045	ND	ND	8	40	0.059	28	7.5	18	2
South Carolina	Greenwood Co.	45047	ND	ND	ND	ND	ND	ND	IN	IN	ND
South Carolina	Horry Co.	45051	ND	ND	ND	ND	0.062	ND	IN	IN	ND
South Carolina	Lexington Co.	45063	ND	ND	ND	ND	ND	30	7.9	19	2
South Carolina	Oconee Co.	45073	ND	ND	ND	ND	0.062	ND	5.7	14	1
South Carolina	Orangeburg Co.	45075	ND	ND	ND	ND	ND	ND	IN	IN	ND
South Carolina	Pickens Co.	45077	ND	ND	ND	ND	0.062	ND	ND	ND	ND
South Carolina	Richland Co.	45079	1	ND	IN	IN	0.063	ND	7.1	13	2
South Carolina	Spartanburg Co.	45083	ND	ND	ND	ND	0.062	ND	IN	IN	ND
South Carolina	York Co.	45091	ND	ND	ND	ND	0.066	ND	IN	IN	IN
South Dakota	Brookings Co.	46011	ND	ND	ND	ND	0.067	70	4.7	12	ND
South Dakota	Brown Co.	46013	ND	ND	ND	ND	ND	49	6.6	22	ND
South Dakota	Codington Co.	46029	ND	ND	ND	ND	ND	86	7.7	16	ND
South Dakota	Custer Co.	46033	ND	ND	ND	ND	0.063	41	3.6	16	ND
South Dakota	Hughes Co.	46065	ND	ND	ND	ND	ND	ND	4.1	14	ND
South Dakota	Jackson Co.	46071	ND	ND	1	4	0.063	42	5	19	1
South Dakota	Meade Co.	46093	ND	ND	ND	ND	0.045	53	IN	IN	ND
South Dakota	Minnehaha Co.	46099	1	ND	5	34	0.069	58	5.5	16	3
South Dakota	Pennington Co.	46103	ND	ND	6	39	ND	124	6.7	27	2
South Dakota	Union Co.	46127	ND	ND	2	18	0.068	120	6.3	16	3
Tennessee	Anderson Co.	47001	ND	ND	ND	ND	0.063	ND	ND	ND	6
Tennessee	Blount Co.	47009	0	ND	1	5	0.067	ND	7.4	16	1
Tennessee	Claiborne Co.	47025	ND	ND	ND	ND	0.062	ND	ND	ND	ND

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Tennessee	Davidson Co.	47037	2	ND	14	47	0.071	41	9.2	18	IN
Tennessee	DeKalb Co.	47041	ND	ND	ND	ND	0.061	ND	ND	ND	ND
Tennessee	Dyer Co.	47045	ND	ND	ND	ND	ND	ND	7.4	15	ND
Tennessee	Hamilton Co.	47065	ND	ND	ND	ND	0.064	ND	7.7	20	ND
Tennessee	Jefferson Co.	47089	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Tennessee	Knox Co.	47093	ND	0.06	ND	ND	0.067	39	8.1	17	ND
Tennessee	Lawrence Co.	47099	ND	ND	ND	ND	ND	ND	7	15	ND
Tennessee	Loudon Co.	47105	ND	ND	ND	ND	0.065	ND	6.2	14	ND
Tennessee	McMinn Co.	47107	ND	ND	ND	ND	ND	ND	7.4	15	ND
Tennessee	Madison Co.	47113	ND	ND	ND	ND	ND	ND	7	16	ND
Tennessee	Maury Co.	47119	ND	ND	ND	ND	ND	ND	7	15	ND
Tennessee	Montgomery Co.	47125	ND	ND	ND	ND	ND	ND	7.9	16	ND
Tennessee	Putnam Co.	47141	ND	ND	ND	ND	ND	ND	6.9	15	ND
Tennessee	Roane Co.	47145	ND	ND	ND	ND	ND	ND	6.8	15	ND
Tennessee	Sevier Co.	47155	ND	ND	ND	ND	0.067	ND	ND	ND	ND
Tennessee	Shelby Co.	47157	1	ND	10	38	0.073	89	9	21	3
Tennessee	Sullivan Co.	47163	ND	0	ND	ND	0.065	ND	7.2	15	86
Tennessee	Sumner Co.	47165	ND	ND	ND	ND	0.068	ND	6.7	16	ND
Tennessee	Williamson Co.	47187	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Tennessee	Wilson Co.	47189	ND	ND	ND	ND	0.064	ND	ND	ND	ND
Texas	Bell Co.	48027	ND	ND	IN	IN	0.072	ND	ND	ND	ND
Texas	Bexar Co.	48029	1	ND	7	40	0.073	56	7.9	33	IN
Texas	Bowie Co.	48037	ND	ND	ND	ND	ND	ND	9.4	21	ND
Texas	Brazoria Co.	48039	ND	ND	5	33	0.071	ND	IN	IN	ND
Texas	Brewster Co.	48043	ND	ND	ND	ND	0.065	ND	IN	IN	ND
Texas	Caldwell Co.	48055	ND	ND	ND	ND	ND	ND	IN	IN	ND
Texas	Cameron Co.	48061	ND	ND	ND	ND	0.059	ND	10.5	26	ND
Texas	Collin Co.	48085	ND	0.01	ND	ND	0.081	ND	IN	IN	ND
Texas	Dallas Co.	48113	1	ND	10	43	0.081	IN	9.6	25	IN
Texas	Denton Co.	48121	ND	ND	6	35	0.076	ND	ND	ND	ND
Texas	Ector Co.	48135	ND	ND	ND	ND	ND	ND	IN	IN	ND
Texas	Ellis Co.	48139	ND	ND	5	27	0.069	ND	IN	IN	7
Texas	El Paso Co.	48141	2	0.01	11	61	0.078	114	8.8	23	IN
Texas	Freestone Co.	48161	ND	ND	ND	ND	ND	ND	ND	ND	39
Texas	Galveston Co.	48167	ND	ND	2	26	0.076	102	IN	IN	8
Texas	Gregg Co.	48183	ND	ND	4	19	0.068	ND	IN	IN	51
Texas	Harris Co.	48201	2	ND	12	52	0.088	88	11	30	24
Texas	Harrison Co.	48203	ND	ND	2	15	0.061	IN	8.4	21	45
Texas	Hidalgo Co.	48215	ND	ND	ND	ND	0.059	77	11.7	29	ND
Texas	Hood Co.	48221	ND	ND	ND	ND	0.071	ND	ND	ND	ND
Texas	Howard Co.	48227	ND	ND	ND	ND	ND	ND	ND	ND	99
Texas	Hunt Co.	48231	ND	ND	4	24	0.073	ND	ND	ND	ND
Texas	Hutchinson Co.	48233	ND	ND	ND	ND	ND	ND	ND	ND	214
Texas	Jeff Davis Co.	48243	ND	ND	ND	ND	ND	ND	IN	IN	ND
Texas	Jefferson Co.	48245	1	ND	6	35	0.072	ND	10.2	25	61
Texas	Johnson Co.	48251	ND	ND	ND	ND	0.081	ND	ND	ND	ND
Texas	Kaufman Co.	48257	ND	IN	3	27	0.065	ND	IN	IN	8
Texas	Kleberg Co.	48273	ND	ND	ND	ND	ND	ND	IN	IN	ND
Texas	Lubbock Co.	48303	ND	ND	ND	ND	ND	ND	IN	IN	ND
Texas	McLennan Co.	48309	0	ND	ND	ND	0.068	ND	IN	IN	IN
Texas	Marion Co.	48315	ND	ND	ND	ND	ND	ND	IN	IN	ND
Texas	Maverick Co.	48323	ND	ND	ND	ND	ND	ND	7.7	24	ND
Texas	Milam Co.	48331	ND	ND	ND	ND	ND	ND	ND	ND	4
Texas	Montgomery Co.	48339	ND	ND	3	26	0.075	ND	IN	IN	ND
Texas	Navarro Co.	48349	ND	ND	4	28	0.067	ND	ND	ND	141

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Texas	Nueces Co.	48355	ND	ND	ND	ND	0.061	79	9.8	29	5
Texas	Orange Co.	48361	ND	ND	2	22	0.073	ND	10.5	26	IN
Texas	Parker Co.	48367	ND	ND	ND	ND	0.075	ND	ND	ND	ND
Texas	Polk Co.	48373	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Texas	Potter Co.	48375	ND	0	ND	ND	ND	ND	IN	IN	133
Texas	Randall Co.	48381	ND	ND	ND	ND	0.072	ND	ND	ND	ND
Texas	Robertson Co.	48395	ND	ND	ND	ND	ND	ND	ND	ND	IN
Texas	Rockwall Co.	48397	ND	ND	ND	ND	0.076	ND	ND	ND	ND
Texas	Rusk Co.	48401	ND	ND	ND	ND	ND	ND	ND	ND	109
Texas	Smith Co.	48423	ND	ND	2	12	0.069	ND	ND	ND	ND
Texas	Tarrant Co.	48439	1	ND	11	42	0.082	40	8.6	20	ND
Texas	Titus Co.	48449	ND	ND	ND	ND	ND	ND	ND	ND	20
Texas	Travis Co.	48453	1	ND	12	46	0.072	82	10	37	2
Texas	Victoria Co.	48469	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Texas	Webb Co.	48479	2	ND	ND	ND	0.058	78	9.4	26	ND
Utah	Box Elder Co.	49003	ND	ND	7	IN	0.072	ND	6.9	26	ND
Utah	Cache Co.	49005	ND	ND	4	30	0.069	67	7.3	28	ND
Utah	Carbon Co.	49007	ND	ND	2	14	0.073	ND	ND	ND	ND
Utah	Davis Co.	49011	ND	ND	12	45	0.08	48	7.9	26	ND
Utah	Duchesne Co.	49013	ND	ND	4	23	0.071	ND	6.9	24	ND
Utah	Garfield Co.	49017	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Utah	Iron Co.	49021	ND	ND	IN	IN	0.067	ND	4.8	14	ND
Utah	Salt Lake Co.	49035	3	ND	15	49	0.08	103	9	29	IN
Utah	San Juan Co.	49037	ND	ND	ND	ND	0.068	ND	ND	ND	ND
Utah	Tooele Co.	49045	ND	ND	4	25	0.074	ND	8	31	ND
Utah	Uintah Co.	49047	ND	ND	4	21	0.069	ND	5.6	19	ND
Utah	Utah Co.	49049	1	ND	9	41	0.079	85	8.6	50	ND
Utah	Washington Co.	49053	ND	ND	3	IN	0.069	ND	IN	IN	ND
Utah	Weber Co.	49057	1	ND	17	46	0.079	102	8.3	25	ND
Vermont	Addison Co.	50001	ND	ND	ND	ND	ND	ND	IN	IN	ND
Vermont	Bennington Co.	50003	ND	ND	ND	ND	0.065	ND	6	15	ND
Vermont	Chittenden Co.	50007	1	ND	6	27	0.062	20	6.5	16	1
Vermont	Rutland Co.	50021	1	ND	7	35	0.063	24	7.5	20	2
Vermont	Washington Co.	50023	ND	ND	ND	ND	ND	ND	IN	IN	ND
Virginia	Albemarle Co.	51003	ND	ND	ND	ND	0.062	ND	6	14	ND
Virginia	Arlington Co.	51013	1	ND	9	42	0.07	ND	7.4	16	ND
Virginia	Botetourt Co.	51023	ND	ND	ND	ND	ND	ND	ND	ND	28
Virginia	Caroline Co.	51033	ND	ND	ND	ND	0.061	ND	ND	ND	ND
Virginia	Carroll Co.	51035	ND	ND	ND	ND	ND	22	ND	ND	ND
Virginia	Charles City Co.	51036	ND	ND	5	31	0.064	ND	6.4	14	18
Virginia	Chesterfield Co.	51041	ND	ND	ND	ND	0.058	ND	6.5	14	ND
Virginia	Fairfax Co.	51059	1	ND	15	47	0.066	21	8.9	20	5
Virginia	Fauquier Co.	51061	ND	ND	ND	ND	0.06	ND	ND	ND	ND
Virginia	Frederick Co.	51069	ND	ND	ND	ND	0.059	ND	7.3	23	ND
Virginia	Giles Co.	51071	ND	ND	ND	ND	0.064	ND	ND	ND	66
Virginia	Hanover Co.	51085	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Virginia	Henrico Co.	51087	1	ND	6	31	0.065	28	6.9	16	5
Virginia	Loudoun Co.	51107	ND	ND	6	33	0.065	ND	7	17	ND
Virginia	Madison Co.	51113	ND	ND	ND	ND	0.062	ND	IN	IN	ND
Virginia	Montgomery Co.	51121	ND	0	ND	ND	ND	ND	ND	ND	ND
Virginia	Page Co.	51139	ND	ND	ND	ND	ND	ND	IN	IN	ND
Virginia	Prince Edward Co.	51147	ND	ND	ND	ND	0.062	ND	ND	ND	ND
Virginia	Prince William Co.	51153	ND	ND	4	IN	0.065	ND	ND	ND	ND
Virginia	Roanoke Co.	51161	1	ND	5	31	0.062	ND	IN	IN	2
Virginia	Rockbridge Co.	51163	ND	ND	ND	ND	0.06	ND	ND	ND	ND

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Virginia	Rockingham Co.	51165	ND	ND	8	36	0.059	ND	6.8	18	2
Virginia	Stafford Co.	51179	ND	ND	ND	ND	0.064	23	ND	ND	ND
Virginia	Wythe Co.	51197	ND	ND	ND	ND	0.061	ND	ND	ND	ND
Virginia	Alexandria city	51510	ND	ND	ND	ND	ND	12	IN	IN	ND
Virginia	Bristol city	51520	ND	ND	ND	ND	ND	ND	6.7	14	ND
Virginia	Chesapeake city	51550	ND	ND	ND	ND	ND	ND	IN	IN	ND
Virginia	Covington city	51580	ND	ND	ND	ND	ND	ND	ND	ND	25
Virginia	Hampton city	51650	1	ND	3	26	0.062	17	6	13	21
Virginia	Hopewell city	51670	ND	ND	ND	ND	ND	18	ND	ND	ND
Virginia	Lynchburg city	51680	ND	ND	ND	ND	ND	ND	6.4	14	ND
Virginia	Newport News city	51700	ND	ND	ND	ND	ND	ND	IN	IN	ND
Virginia	Norfolk city	51710	1	ND	7	38	ND	21	6.6	14	10
Virginia	Richmond city	51760	1	ND	12	43	ND	ND	8.2	19	ND
Virginia	Roanoke city	51770	ND	0.02	ND	ND	ND	ND	IN	IN	ND
Virginia	Salem city	51775	ND	ND	ND	ND	ND	ND	7	15	ND
Virginia	Suffolk city	51800	ND	ND	ND	ND	0.063	ND	ND	ND	ND
Virginia	Virginia Beach city	51810	ND	ND	ND	ND	ND	ND	IN	IN	ND
Virginia	Winchester city	51840	ND	ND	ND	ND	ND	20	ND	ND	ND
Washington	Adams Co.	53001	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Asotin Co.	53003	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Benton Co.	53005	ND	ND	ND	ND	0.073	169	IN	IN	ND
Washington	Chelan Co.	53007	ND	ND	ND	ND	ND	ND	IN	IN	1
Washington	Clallam Co.	53009	1	ND	ND	ND	0.058	ND	IN	IN	1
Washington	Clark Co.	53011	ND	ND	ND	ND	0.062	ND	7.3	30	ND
Washington	Cowlitz Co.	53015	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Grant Co.	53025	ND	ND	IN	IN	ND	ND	IN	IN	ND
Washington	Grays Harbor Co.	53027	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Jefferson Co.	53031	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	King Co.	53033	1	ND	20	64	0.077	60	9.3	42	8
Washington	Kitsap Co.	53035	ND	ND	ND	ND	ND	ND	4.8	24	ND
Washington	Kittitas Co.	53037	ND	ND	ND	ND	ND	ND	7.1	47	ND
Washington	Lewis Co.	53041	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Mason Co.	53045	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Okanogan Co.	53047	ND	ND	ND	ND	ND	ND	13.4	94	ND
Washington	Pierce Co.	53053	ND	ND	17	IN	0.069	ND	8.2	38	ND
Washington	Skagit Co.	53057	ND	ND	IN	IN	0.045	ND	6.3	28	2
Washington	Skamania Co.	53059	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Snohomish Co.	53061	ND	ND	ND	ND	ND	ND	8.1	42	ND
Washington	Spokane Co.	53063	ND	ND	ND	ND	0.072	180	10.3	50	ND
Washington	Stevens Co.	53065	ND	ND	ND	ND	ND	154	IN	IN	ND
Washington	Thurston Co.	53067	ND	ND	ND	ND	0.064	ND	IN	IN	ND
Washington	Walla Walla Co.	53071	ND	ND	ND	ND	ND	186	IN	IN	ND
Washington	Whatcom Co.	53073	ND	ND	ND	ND	0.062	ND	5.3	24	101
Washington	Whitman Co.	53075	ND	ND	ND	ND	ND	ND	IN	IN	ND
Washington	Yakima Co.	53077	ND	ND	ND	ND	ND	129	10.5	50	ND
West Virginia	Berkeley Co.	54003	ND	ND	ND	ND	0.062	ND	8.1	22	ND
West Virginia	Brooke Co.	54009	ND	ND	ND	ND	ND	37	8.8	20	48
West Virginia	Cabell Co.	54011	ND	ND	ND	ND	0.066	ND	7.7	16	ND
West Virginia	Gilmer Co.	54021	ND	ND	ND	ND	0.058	ND	ND	ND	ND
West Virginia	Greenbrier Co.	54025	ND	ND	ND	ND	0.058	ND	ND	ND	ND
West Virginia	Hancock Co.	54029	ND	ND	ND	ND	0.067	32	7.8	19	22
West Virginia	Harrison Co.	54033	ND	ND	ND	ND	ND	ND	7.1	15	ND
West Virginia	Kanawha Co.	54039	1	ND	ND	ND	0.066	ND	8.1	16	5
West Virginia	Marion Co.	54049	ND	ND	ND	ND	ND	ND	7.4	15	ND
West Virginia	Marshall Co.	54051	ND	ND	ND	ND	ND	ND	9	20	9

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
West Virginia	Mason Co.	54053	ND	ND	ND	ND	ND	ND	ND	ND	57
West Virginia	Mercer Co.	54055	ND	ND	ND	ND	ND	ND	IN	IN	ND
West Virginia	Mineral Co.	54057	ND	ND	ND	ND	ND	ND	ND	ND	203
West Virginia	Monongalia Co.	54061	ND	ND	ND	ND	0.062	ND	IN	IN	IN
West Virginia	Ohio Co.	54069	ND	ND	ND	ND	0.066	ND	7.6	17	ND
West Virginia	Raleigh Co.	54081	ND	ND	ND	ND	ND	ND	IN	IN	ND
West Virginia	Summers Co.	54089	ND	ND	ND	ND	ND	ND	IN	IN	ND
West Virginia	Tucker Co.	54093	ND	ND	ND	ND	0.06	ND	ND	ND	ND
West Virginia	Wood Co.	54107	ND	ND	ND	ND	0.061	ND	7.7	17	16
Wisconsin	Ashland Co.	55003	ND	ND	ND	ND	0.062	ND	IN	IN	ND
Wisconsin	Brown Co.	55009	ND	ND	ND	ND	0.066	ND	6.4	19	12
Wisconsin	Columbia Co.	55021	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Wisconsin	Dane Co.	55025	ND	ND	ND	ND	0.065	42	8.6	23	3
Wisconsin	Dodge Co.	55027	0	ND	ND	ND	0.069	38	7.5	23	IN
Wisconsin	Door Co.	55029	ND	ND	ND	ND	0.075	ND	IN	IN	ND
Wisconsin	Douglas Co.	55031	ND	ND	ND	ND	ND	ND	IN	IN	ND
Wisconsin	Eau Claire Co.	55035	ND	ND	ND	ND	0.066	ND	7.5	22	ND
Wisconsin	Fond du Lac Co.	55039	ND	ND	ND	ND	0.066	ND	ND	ND	ND
Wisconsin	Forest Co.	55041	ND	ND	ND	ND	0.066	ND	4.2	14	2
Wisconsin	Grant Co.	55043	ND	ND	ND	ND	ND	ND	8.4	20	ND
Wisconsin	Jefferson Co.	55055	ND	ND	ND	ND	0.068	ND	IN	IN	ND
Wisconsin	Kenosha Co.	55059	ND	ND	ND	ND	0.08	ND	7.2	21	ND
Wisconsin	Kewaunee Co.	55061	ND	ND	ND	ND	0.072	ND	ND	ND	ND
Wisconsin	La Crosse Co.	55063	ND	ND	ND	ND	0.062	ND	7.7	21	ND
Wisconsin	Manitowoc Co.	55071	ND	ND	IN	IN	0.076	ND	IN	IN	ND
Wisconsin	Marathon Co.	55073	ND	ND	ND	ND	0.065	ND	ND	ND	ND
Wisconsin	Milwaukee Co.	55079	1	ND	14	47	0.073	40	8.9	22	4
Wisconsin	Oneida Co.	55085	ND	ND	ND	ND	ND	ND	ND	ND	40
Wisconsin	Outagamie Co.	55087	ND	ND	ND	ND	0.067	ND	6.5	21	108
Wisconsin	Ozaukee Co.	55089	ND	ND	ND	ND	0.073	ND	6.4	20	ND
Wisconsin	Racine Co.	55101	ND	ND	ND	ND	0.078	ND	ND	ND	ND
Wisconsin	Rock Co.	55105	ND	ND	ND	ND	0.068	ND	IN	IN	ND
Wisconsin	St. Croix Co.	55109	ND	ND	ND	ND	ND	ND	IN	IN	ND
Wisconsin	Sauk Co.	55111	ND	ND	ND	ND	0.067	32	6.6	18	ND
Wisconsin	Sheboygan Co.	55117	ND	0.02	ND	ND	0.083	ND	ND	ND	ND
Wisconsin	Taylor Co.	55119	ND	ND	ND	ND	0.065	ND	6.5	20	ND
Wisconsin	Vilas Co.	55125	ND	ND	ND	ND	0.063	ND	5.1	16	ND
Wisconsin	Walworth Co.	55127	ND	ND	ND	ND	0.07	ND	ND	ND	ND
Wisconsin	Waukesha Co.	55133	ND	ND	ND	ND	0.068	39	9.1	22	ND
Wisconsin	Waupaca Co.	55135	ND	ND	ND	ND	ND	ND	IN	IN	ND
Wisconsin	Winnebago Co.	55139	ND	ND	ND	ND	ND	ND	IN	IN	ND
Wisconsin	Wood Co.	55141	ND	ND	ND	ND	ND	ND	IN	IN	ND
Wyoming	Albany Co.	56001	ND	ND	IN	IN	0.07	113	4.9	14	IN
Wyoming	Big Horn Co.	56003	ND	ND	ND	ND	0.064	ND	IN	IN	ND
Wyoming	Campbell Co.	56005	ND	ND	5	30	0.064	113	4.7	21	ND
Wyoming	Carbon Co.	56007	ND	ND	5	27	0.065	ND	IN	IN	13
Wyoming	Converse Co.	56009	0	ND	3	31	0.064	105	IN	IN	16
Wyoming	Fremont Co.	56013	ND	ND	1	3	0.066	42	7.3	22	50
Wyoming	Goshen Co.	56015	ND	ND	ND	ND	ND	ND	IN	IN	ND
Wyoming	Johnson Co.	56019	ND	ND	IN	IN	0.06	74	ND	ND	ND
Wyoming	Laramie Co.	56021	0	ND	4	34	0.068	44	4.7	14	3
Wyoming	Lincoln Co.	56023	ND	ND	ND	ND	ND	107	ND	ND	ND
Wyoming	Natrona Co.	56025	ND	ND	5	37	0.065	31	5.3	16	19
Wyoming	Park Co.	56029	ND	ND	IN	IN	0.052	56	4.1	17	IN
Wyoming	Platte Co.	56031	ND	ND	ND	ND	ND	58	ND	ND	ND

State	County	County FIPS Code	CO 8-hr (ppm)	Pb 3-mo ($\mu g/m^3$)	NO_2 AM (ppb)	NO_2 1-hr (ppb)	O_3 8-hr (ppm)	PM_{10} 24-hr ($\mu g/m^3$)	$PM_{2.5}$ Wtd AM ($\mu g/m^3$)	$PM_{2.5}$ 24-hr ($\mu g/m^3$)	SO_2 1-hr (ppb)
Wyoming	Sheridan Co.	56033	ND	ND	IN	IN	0.069	55	7.2	21	IN
Wyoming	Sublette Co.	56035	ND	ND	6	26	0.068	78	5.6	25	ND
Wyoming	Sweetwater Co.	56037	ND	ND	3	34	0.068	193	5.4	19	45
Wyoming	Teton Co.	56039	0	ND	IN	IN	0.064	52	3.7	20	IN
Wyoming	Uinta Co.	56041	ND	ND	2	11	0.068	67	ND	ND	ND
Wyoming	Weston Co.	56045	ND	ND	ND	ND	0.063	ND	IN	IN	2
Puerto Rico	Adjuntas Municipio, Puerto Rico	72001	ND	ND	ND	ND	ND	ND	IN	IN	ND
Puerto Rico	Arecibo Municipio, Puerto Rico	72013	ND	0.18	ND	ND	ND	ND	ND	ND	ND
Puerto Rico	Bayamón Municipio, Puerto Rico	72021	IN	ND	ND	ND	ND	ND	12.6	44	IN
Puerto Rico	Caguas Municipio, Puerto Rico	72025	3	ND	ND	ND	ND	ND	IN	IN	ND
Puerto Rico	Cataño Municipio, Puerto Rico	72033	ND	ND	ND	ND	0.017	82	ND	ND	IN
Puerto Rico	Fajardo Municipio, Puerto Rico	72053	ND	ND	ND	ND	ND	ND	IN	IN	ND
Puerto Rico	Guayama Municipio, Puerto Rico	72057	ND	ND	ND	ND	ND	ND	IN	IN	7
Puerto Rico	Guayanilla Municipio, Puerto Rico	72059	ND	ND	ND	ND	ND	ND	IN	IN	ND
Puerto Rico	Guaynabo Municipio, Puerto Rico	72061	1	ND	IN	IN	ND	IN	IN	42	ND
Puerto Rico	Humacao Municipio, Puerto Rico	72069	ND	ND	ND	ND	ND	ND	IN	IN	ND
Puerto Rico	Lares Municipio, Puerto Rico	72081	ND	ND	ND	ND	ND	ND	IN	IN	ND
Puerto Rico	Mayagüez Municipio, Puerto Rico	72097	ND	ND	ND	ND	ND	ND	IN	IN	ND
Puerto Rico	Ponce Municipio, Puerto Rico	72113	2	ND	ND	ND	ND	120	IN	39	ND
Puerto Rico	San Juan Municipio, Puerto Rico	72127	ND	ND	ND	ND	ND	ND	IN	IN	ND

CO - Second maximum non-overlapping 8-hour concentration (applicable NAAQS is 9 ppm)
Pb - Maximum rolling 3 month average (applicable NAAQS is 0.15 $\mu g/m^3$)
NO_2 (AM) - Arithmetic mean concentration (applicable NAAQS is 53 ppb)
NO_2 (1-hr) - 98th percentile daily maximum 1-hour concentration (applicable NAAQS is 100 ppb)
O_3 - Fourth daily maximum 8-hour concentration (applicable NAAQS is 0.070 ppm)
PM_{10} - Second maximum 24-hour concentration (applicable NAAQS is 150 µg/m3)
$PM_{2.5}$ (Wtd AM) - Weighted annual mean concentration (applicable NAAQS is 12 $\mu g/m^3$)
$PM_{2.5}$ (24-hr) - 98th percentile 24-hour concentration (applicable NAAQS is 35 $\mu g/m^3$)
SO_2 - 99th percentile daily maximum 1-hour concentration (applicable NAAQS is 75 ppb)
ND - No Data
IN - Insufficient data to calculate summary statistic
$\mu g/m^3$ - micrograms per cubic meter
ppm - parts per million
ppb - parts per billion

Table 3b. Design Value History in Areas Previously Designated Nonattainment for the 2008 8-Hour Ozone NAAQS
AQS Data Retrieval: 6/18/2019 Last Updated: 6/19/2019

Designated Area	EPA Region(s)	2007-2009 Design Value (ppm)[1,2]	2008-2010 Design Value (ppm)[1,2]	2009-2011 Design Value (ppm)[1,2]	2010-2012 Design Value (ppm)[1,2]	2011-2013 Design Value (ppm)[1,2]	2012-2014 Design Value (ppm)[1,2]	2013-2015 Design Value (ppm)[1,2]	2014-2016 Design Value (ppm)[1,2]	2015-2017 Design Value (ppm)[1,2]	2016-2018 Design Value (ppm)[1,2]
Allentown-Bethlehem-Easton, PA	3	0.076	0.076	0.076	0.078	0.074	0.070	0.068	0.069	0.070	0.071
Atlanta, GA	4	0.087	0.080	0.080	0.083	0.080	0.077	0.073	0.075	0.075	0.073
Baltimore, MD	3	0.087	0.089	0.092	0.093	0.085	0.075	0.071	0.073	0.075	0.075
Baton Rouge, LA	6	0.080	0.078	0.082	0.079	0.075	0.072	0.070	0.071	0.070	0.070
Calaveras County, CA	9	0.082	0.083	0.077	0.076	0.072	0.071	0.073	0.076	0.078	0.077
Charlotte-Rock Hill, NC-SC	4	0.086	0.082	0.079	0.083	0.078	0.073	0.068	0.070	0.070	0.070
Chicago-Naperville, IL-IN-WI	5	0.076	0.074	0.077	0.084	0.082	0.081	0.075	0.077	0.078	0.079
Chico (Butte County), CA	9	0.082	0.079	0.077	0.077	0.075	0.074	0.073	0.075	0.076	0.079
Cincinnati, OH-KY-IN	4,5	0.082	0.079	0.080	0.085	0.081	0.075	0.071	0.072	0.073	0.075
Cleveland-Akron-Lorain, OH	5	0.080	0.077	0.078	0.083	0.080	0.078	0.073	0.074	0.073	0.074
Columbus, OH	5	0.081	0.077	0.079	0.082	0.080	0.075	0.071	0.071	0.071	0.069
Dallas-Fort Worth, TX	6	0.086	0.086	0.090	0.087	0.087	0.081	0.083	0.080	0.079	0.076
Denver-Boulder-Greeley-Ft. Collins-Loveland, CO	8	0.082	0.078	0.078	0.082	0.083	0.082	0.080	0.080	0.079	0.079
Dukes County, MA	1	0.077	0.078	0.076	0.080	0.075	0.068				0.070
Greater Connecticut, CT	1	0.081	0.079	0.076	0.081	0.084	0.080	0.076	0.074	0.076	0.075
Houston-Galveston-Brazoria, TX	6	0.084	0.084	0.089	0.088	0.087	0.080	0.080	0.079	0.081	0.078
Imperial County, CA	9	0.083	0.078	0.080	0.081	0.082	0.080	0.078	0.076	0.077	0.077
Jamestown, NY	2	0.079	0.077	0.072	0.076	0.072	0.071	0.067	0.068	0.068	0.068
Kern County (Eastern Kern), CA	9	0.084	0.083	0.080	0.079	0.081	0.084	0.083	0.084	0.081	0.085
Knoxville, TN	4	0.082	0.077	0.077	0.079	0.074	0.067	0.065	0.067	0.067	0.067
Lancaster, PA	3	0.077	0.077	0.077	0.082	0.075	0.071	0.067	0.069	0.069	0.069
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	9	0.100	0.099	0.097	0.097	0.092	0.092	0.090	0.091	0.096	0.098
Los Angeles-South Coast Air Basin, CA	9	0.118	0.112	0.107	0.106	0.107	0.102	0.102	0.108	0.112	0.111
Mariposa County, CA	9	0.086	0.083	0.077	0.078	0.078	0.078	0.075	0.074	0.075	0.079
Memphis, TN-MS-AR	4,6	0.078	0.076	0.077	0.079	0.078	0.073	0.067	0.067	0.067	0.069
Morongo Band of Mission Indians, CA	9	0.104	0.102	0.101	0.100	0.101	0.099	0.098	0.097	0.101	0.101
Nevada County (Western part), CA	9	0.087	0.084	0.079	0.078	0.077	0.079	0.081	0.084	0.087	0.090
New York-N. New Jersey-Long Island, NY-NJ-CT	1,2	0.084	0.082	0.084	0.087	0.089	0.085	0.084	0.083	0.083	0.082
Pechanga Band of Luiseno Mission Indians, CA	9					0.077	0.076	0.076	0.077	0.080	0.080
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	2,3	0.088	0.083	0.083	0.087	0.084	0.077	0.075	0.077	0.080	0.081
Phoenix-Mesa, AZ	9	0.076	0.077	0.077	0.081	0.081	0.080	0.077	0.076	0.075	0.077
Pittsburgh-Beaver Valley, PA	3	0.082	0.081	0.080	0.082	0.080	0.077	0.073	0.070	0.070	0.071
Reading, PA	3	0.079	0.079	0.077	0.079	0.073	0.071	0.069	0.070	0.070	0.070
Riverside County (Coachella Valley), CA	9	0.096	0.095	0.093	0.092	0.092	0.091	0.088	0.087	0.088	0.091
Sacramento Metro, CA	9	0.097	0.099	0.095	0.095	0.090	0.085	0.081	0.085	0.084	0.088
San Diego County, CA	9	0.089	0.088	0.082	0.081	0.080	0.079	0.079	0.081	0.084	0.084
San Francisco Bay Area, CA	9	0.078	0.080	0.076	0.073	0.071	0.072	0.073	0.074	0.075	0.073
San Joaquin Valley, CA	9	0.105	0.104	0.099	0.098	0.094	0.095	0.093	0.094	0.092	0.090
San Luis Obispo (Eastern San Luis Obispo), CA	9	0.084	0.084	0.078	0.079	0.077	0.076	0.073	0.073	0.072	0.072
Seaford, DE	3	0.076	0.077	0.076	0.081	0.077	0.074	0.069	0.069	0.067	0.067
Sheboygan County, WI	5	0.079	0.078	0.081	0.087	0.085	0.081	0.077	0.079	0.080	0.081
St. Louis-St. Charles-Farmington, MO-IL	5,7	0.078	0.077	0.079	0.086	0.082	0.078	0.071	0.072	0.072	0.074
Tuscan Buttes, CA	9	0.082	0.080	0.076	0.076	0.074	0.075	0.074	0.079	0.079	0.081
Upper Green River Basin, WY	8	0.078	0.078	0.078	0.078	0.076	0.064	0.064	0.063	0.064	0.065
Ventura County, CA	9	0.087	0.086	0.083	0.081	0.079	0.079	0.077	0.077	0.077	0.078
Washington, DC-MD-VA	3	0.080	0.081	0.082	0.087	0.081	0.076	0.070	0.072	0.071	0.072

Notes:

1. The level of the 2008 8-hour ozone NAAQS is 0.075 parts per million (ppm). The design value is the 3-year average of the annual 4th highest daily maximum 8-hour ozone concentration. To be comparable to the NAAQS, the design value must be valid according to Appendix P to 40 CFR Part 50 which specifies minimum data completeness criteria. The design value listed for each area is the highest among monitors with valid design values.

2. The design values shown here are computed using Federal Reference Method or equivalent data reported by State, Tribal, and Local monitoring agencies to EPA's Air Quality System (AQS) as of June 18, 2019. Concentrations flagged by States, Tribes, and local agencies as being influenced by exceptional events (e.g., high winds, wildfires, volcanic eruptions) that have been concurred by the associated EPA Regional Office are excluded from the calculation of these design values. Therefore, these design values could include concentrations flagged as being influenced by exceptional events that have not been evaluated by the associated EPA Regional Office. Any evaluation and concurrence of exceptional events influencing such data would exclude that data from subsequent design value calculations.

Disclaimer: The information listed in this report and in these tables is intended for informational use only and does not constitute a regulatory determination by EPA as whether an area has attained a NAAQS. The information set forth in this report has no regulatory effect. To have regulatory effect, a final EPA determination as to whether an area has attained a NAAQS or attained a NAAQS as of its applicable attainment date can be accomplished only after rulemaking that provides an opportunity for notice and comment. No such determination for regulatory purposes exists in the absence of such rulemaking. This report does not constitute a proposed or final rulemaking.

Attachment 2

2008 Ozone NAAQS Previously Designated Nonattainment Areas Design Value History