

**2020 Projected Design Values (1-Hour)
by County for Sulfur Dioxide (SO₂)
(Includes only counties with monitors)**

**Projected 1-hour SO₂ Concentrations are Based on
Air Monitoring Data for 2005-2007 and Emissions from 2005**

	Not projected to violate 75 ppb in 2020
	Projected to violate 75 ppb in 2020

State	County	2020 Projected Design Values
Alabama	Jefferson	19
Arizona	Gila	285
Arizona	Maricopa	4
Arizona	Pima	17
Arkansas	Pulaski	13
California	Contra Costa	17
California	Imperial	20
California	Los Angeles	16
California	Orange	5
California	Sacramento	5
California	San Bernardino	20
California	San Diego	9
California	San Francisco	10
California	Santa Barbara	7
California	Solano	7
Colorado	Denver	67
Connecticut	Fairfield	46
Connecticut	New Haven	61
Delaware	New Castle	49
Florida	Broward	35
Florida	Duval	57
Florida	Escambia	27
Florida	Hamilton	25
Florida	Hillsborough	54
Florida	Orange	5
Florida	Pinellas	43
Florida	Putnam	12
Georgia	Chatham	87
Georgia	Floyd	10
Georgia	Fulton	23
Idaho	Bannock	62
Illinois	Cook	64
Illinois	Macon	49

Illinois	Macoupin	14
Illinois	Madison	89
Illinois	Peoria	31
Illinois	Randolph	21
Illinois	Sangamon	99
Illinois	St. Clair	59
Illinois	Tazewell	89
Illinois	Wabash	41
Illinois	Will	32
Indiana	Daviess	37
Indiana	Dearborn	36
Indiana	Floyd	66
Indiana	Fountain	56
Indiana	Gibson	29
Indiana	Hendricks	20
Indiana	Jasper	57
Indiana	La Porte	27
Indiana	Lake	82
Indiana	Marion	46
Indiana	Morgan	53
Indiana	Pike	6
Indiana	Porter	60
Indiana	Spencer	16
Indiana	Vanderburgh	19
Indiana	Vigo	32
Indiana	Warrick	38
Indiana	Wayne	134
Iowa	Cerro Gordo	12
Iowa	Clinton	41
Iowa	Linn	94
Iowa	Muscatine	126
Iowa	Scott	21
Iowa	Van Buren	7
Kansas	Montgomery	15
Kansas	Sumner	5
Kansas	Trego	2
Kansas	Wyandotte	33
Kentucky	Boyd	19
Kentucky	Daviess	20
Kentucky	Greenup	13
Kentucky	Jefferson	73
Kentucky	Livingston	54
Kentucky	McCracken	26
Louisiana	Bossier Parish	17
Louisiana	Calcasieu Parish	36
Louisiana	East Baton Rouge Parish	55
Louisiana	Ouachita Parish	20
Maine	Hancock	5

Maryland	Baltimore	43
Massachusetts	Bristol	22
Massachusetts	Hampden	30
Massachusetts	Hampshire	13
Massachusetts	Suffolk	26
Massachusetts	Worcester	18
Minnesota	Anoka	10
Minnesota	Dakota	7
Missouri	Greene	65
Missouri	Jackson	97
Missouri	Jefferson	286
Missouri	St. Louis	35
Missouri	St. Louis City	47
Montana	Yellowstone	73
Nebraska	Douglas	88
Nevada	Clark	6
New Hampshire	Hillsborough	21
New Hampshire	Merrimack	52
New Hampshire	Rockingham	28
New Jersey	Atlantic	12
New Jersey	Bergen	22
New Jersey	Burlington	13
New Jersey	Camden	17
New Jersey	Cumberland	9
New Jersey	Gloucester	14
New Jersey	Hudson	38
New Jersey	Middlesex	12
New Jersey	Morris	14
New Jersey	Union	23
New Mexico	Eddy	5
New Mexico	Grant	2
New Mexico	San Juan	33
New York	Albany	21
New York	Chautauqua	42
New York	Chemung	25
New York	Erie	76
New York	Essex	9
New York	Franklin	8
New York	Hamilton	9
New York	Herkimer	9
New York	Madison	27
New York	Monroe	59
New York	New York	44
New York	Niagara	14
New York	Onondaga	40
New York	Putnam	20
New York	Queens	33
New York	Schenectady	22

New York	Suffolk	76
New York	Ulster	15
North Carolina	Beaufort	46
North Carolina	New Hanover	58
North Dakota	Billings	3
North Dakota	Burke	29
North Dakota	Cass	4
North Dakota	Dunn	9
North Dakota	McKenzie	17
North Dakota	Mercer	22
North Dakota	Oliver	30
North Dakota	Williams	37
Ohio	Adams	22
Ohio	Allen	20
Ohio	Ashtabula	30
Ohio	Butler	29
Ohio	Clark	63
Ohio	Columbiana	43
Ohio	Cuyahoga	47
Ohio	Franklin	15
Ohio	Hamilton	50
Ohio	Jefferson	53
Ohio	Lake	95
Ohio	Lawrence	15
Ohio	Lucas	32
Ohio	Mahoning	48
Ohio	Meigs	25
Ohio	Scioto	21
Ohio	Summit	104
Ohio	Tuscarawas	16
Oklahoma	Kay	68
Oklahoma	Muskogee	105
Oklahoma	Oklahoma	5
Oklahoma	Tulsa	51
Pennsylvania	Allegheny	60
Pennsylvania	Beaver	48
Pennsylvania	Blair	57
Pennsylvania	Bucks	17
Pennsylvania	Cambria	34
Pennsylvania	Centre	26
Pennsylvania	Dauphin	16
Pennsylvania	Erie	30
Pennsylvania	Indiana	47
Pennsylvania	Lackawanna	21
Pennsylvania	Lancaster	20
Pennsylvania	Lawrence	44
Pennsylvania	Lehigh	30
Pennsylvania	Lycoming	7

Pennsylvania	Mercer	31
Pennsylvania	Montgomery	16
Pennsylvania	Northampton	100
Pennsylvania	Perry	6
Pennsylvania	Philadelphia	17
Pennsylvania	Schuylkill	10
Pennsylvania	Warren	217
Pennsylvania	Washington	33
Pennsylvania	Westmoreland	30
Pennsylvania	York	31
South Carolina	Barnwell	19
South Carolina	Charleston	24
South Carolina	Georgetown	14
South Carolina	Greenville	16
South Carolina	Lexington	69
South Carolina	Oconee	18
South Carolina	Richland	26
South Dakota	Custer	3
South Dakota	Jackson	2
South Dakota	Minnehaha	15
Tennessee	Blount	60
Tennessee	Bradley	80
Tennessee	Davidson	26
Tennessee	Montgomery	144
Tennessee	Shelby	57
Tennessee	Sullivan	88
Texas	Dallas	10
Texas	El Paso	12
Texas	Galveston	43
Texas	Gregg	39
Texas	Harris	59
Texas	Jefferson	99
Texas	Kaufman	13
Texas	Nueces	19
Utah	Davis	24
Utah	Salt Lake	35
Vermont	Rutland	46
Virginia	Alexandria City	12
Virginia	Charles City	25
Virginia	Fairfax	15
Virginia	Hampton City	46
Virginia	Richmond City	15
Virginia	Rockingham	13
West Virginia	Brooke	49
West Virginia	Cabell	7
West Virginia	Hancock	56
West Virginia	Kanawha	22
West Virginia	Marshall	42

West Virginia	Monongalia	42
West Virginia	Wood	38
Wisconsin	Brown	65
Wisconsin	Oneida	175

Notes:

1. Modeled emissions reflect the expected reductions from federal programs including the Clean Air Interstate Rule, the Clean Air Nonroad Diesel Rule, the Light-Duty Vehicle Tier 2 Rule, the Heavy Duty Diesel Rule, Renewable Fuel Standards (RFS2), C3/SECA final rule for commercial marine vessels, final rules for Locomotive and Marine Vessels and for Small Spark-Ignition Engines, and state and local level mobile and stationary source controls.

2. The projected 1-hour SO₂ concentrations are based on air monitoring data from 2005 - 2007 and emissions from 2005. SO₂ air quality has improved since 2005 and in some cases, current air quality measurements are much lower than EPA's projections for 2020.

3. EPA did not model future violations outside the continental United States.

4. Controls applied are illustrative. States may choose to apply different control strategies for implementation.

5. Modeled design values are truncated to one decimal place and rounded to the nearest whole number to compare to the level of the NAAQS.

6. 2020 design values are projected from 2005-2007 monitored design values for monitors that met the following criteria: 75% of the day has valid hourly values, 75% of the days in a quarter are valid, and all 4 quarters for each of the three years are valid.