

Chapter 4

Air Quality Data Supporting the 8-hour Ozone Designations and Classifications

April 15, 2004

Regions	Area	Design Value in ppb		Category/Classification
		8-hr	1-hr	
Area Design Values and Classifications				
2	Albany-Schenectady-Troy, NY	87	115	Subpart 1
5	Allegan Co, MI	97	115	Subpart 1
3	Allentown-Bethlehem-Easton, PA	91	114	Subpart 1
3	Altoona, PA	85	107	Subpart 1
9	Amador and Calaveras Cos, CA(Central Mtn Co)	91	117	Subpart 1
4	Atlanta, GA	91	125	Subpart 2 Marginal
3	Baltimore, MD	103	143	Subpart 2 Moderate
6	Baton Rouge, LA	86	131	Subpart 2 Marginal
6	Beaumont-Port Arthur, TX	91	129	Subpart 2 Marginal
5	Benton Harbor, MI	91	117	Subpart 1
5	Benzie Co, MI	88	116	Subpart 1
3	Berkeley and Jefferson Counties, WV	86	105	EAC Subpart 1
4	Birmingham, AL	87	113	Subpart 1
1	Boston-Lawrence-Worcester (E. MA), MA	95	124	Subpart 2 Moderate
1	Boston-Manchester-Portsmouth(SE),NH*	95	124	Subpart 2 Moderate
2	Buffalo-Niagara Falls, NY	99	116	Subpart 1
5	Canton-Massillon, OH	90	109	Subpart 1
5	Cass Co, MI	93	124	Subpart 2 Moderate
3	Charleston, WV	86	107	Subpart 1
4	Charlotte-Gastonia-Rock Hill, NC-SC	100	129	Subpart 2 Moderate
4	Chattanooga, TN-GA	88	113	Subpart 1
5	Chicago-Gary-Lake County, IL-IN	101	134	Subpart 2 Moderate
9	Chico, CA	89	102	Subpart 1
5,4	Cincinnati-Hamilton, OH-KY-IN	96	118	Subpart 1
4	Clarksville-Hopkinsville, TN-KY	85	99	Subpart 1
3	Clearfield and Indiana Cos, PA	90	106	Subpart 1
5	Cleveland-Akron-Lorain, OH	103	128	Subpart 2 Moderate
4	Columbia, SC	89	108	EAC Subpart 1
5	Columbus, OH	95	117	Subpart 1
6	Dallas-Fort Worth, TX	100	135	Subpart 2 Moderate
5	Dayton-Springfield, OH	90	117	Subpart 1
8	Denver-Boulder-Greeley-Ft Collins-Love., CO	87	114	EAC Subpart 1
5	Detroit-Ann Arbor, MI	97	127	Subpart 2 Moderate

Regions	Area	Design Value in ppb		Category/Classification
		8-hr	1-hr	
5	Door Co, WI	94	113	Subpart 1
3	Erie, PA	92	114	Subpart 1
2	Essex Co (Whiteface Mtn) NY	91	113	Subpart 1
5	Evansville, IN	85	106	Subpart 1
4	Fayetteville, NC	87	108	EAC Subpart 1
5	Flint, MI	90	103	Subpart 1
5	Fort Wayne, IN	88	106	Subpart 1
3	Franklin Co, PA	93	114	Subpart 1
3	Frederick Co, VA	85	106	EAC Subpart 1
3	Fredericksburg, VA*	99	140	Subpart 2 Moderate
5	Grand Rapids, MI	89	110	Subpart 1
1	Greater Connecticut, CT	95	139	Subpart 2 Moderate
5	Greene Co, IN	88	102	Subpart 1
3	Greene Co, PA	89	107	Subpart 1
4	Greensboro-Winston Salem-High Point, NC	93	121	EAC Subpart 2 Moderate
4	Greenville-Spartanburg-Anderson, SC	87	114	EAC Subpart 1
1	Hancock, Knox, Lincoln and Waldo Cos, ME	94	120	Subpart 1
3	Harrisburg-Lebanon-Carlisle, PA	88	111	Subpart 1
4	Haywood and Swain Cos (Great Smoky NP), NC	85	104	Subpart 1
4	Hickory-Morganton-Lenoir, NC	88	105	EAC Subpart 1
6	Houston-Galveston-Brazoria, TX	102	175	Subpart 2 Moderate
3,4	Huntington-Ashland, WV-KY	91	115	Subpart 1
5	Huron Co, MI	87	109	Subpart 1
9	Imperial Co, CA	87	142	Subpart 2 Marginal
5	Indianapolis, IN	96	119	Subpart 1
5	Jackson Co, IN	85	100	Subpart 1
2	Jamestown, NY	94	115	Subpart 1
2	Jefferson Co, NY	97	121	Subpart 2 Moderate
4	Johnson City-Kingsport-Bristol, TN	86	110	EAC Subpart 1
3	Johnstown, PA	87	106	Subpart 1
5	Kalamazoo-Battle Creek, MI	86	102	Subpart 1
3	Kent and Queen Anne's Co, MD	95	122	Subpart 2 Moderate
9	Kern Co (Eastern Kern), CA	98	118	Subpart 1
5	Kewaunee Co, WI	93	110	Subpart 1
4	Knoxville, TN	92	114	Subpart 1

Regions	Area	Design Value in ppb		Category/Classification
		8-hr	1-hr	
5	La Porte Co, IN	93	135	Subpart 2 Moderate
3	Lancaster, PA	92	124	Subpart 2 Moderate
5	Lansing-East Lansing, MI	86	102	Subpart 1
9	Las Vegas, NV	86	107	Subpart 1
5	Lima, OH	89	108	Subpart 1
9	Los Angeles South Coast Air Basin, CA	131	180	Subpart 2 Severe 17
9	Los Angeles-San Bernardino Cos(W Mojave), CA	106	138	Subpart 2 Moderate
4,5	Louisville, KY-IN	92	120	Subpart 1
4	Macon, GA	86	113	Subpart 1
3	Madison and Page Cos (Shenandoah NP), VA	87	104	Subpart 1
5	Manitowoc Co, WI	90	110	Subpart 1
9	Mariposa and Tuolumne Cos, CA (S. Mtn Cos)	91	113	Subpart 1
5	Mason Co, MI	89	114	Subpart 1
4,6	Memphis, TN-AR	92	126	Subpart 2 Moderate
5	Milwaukee-Racine, WI	101	134	Subpart 2 Moderate
5	Muncie, IN	88	104	Subpart 1
4	Murray Co (Chattahoochee Nat Forest), GA	85	103	Subpart 1
5	Muskegon, MI	95	121	Subpart 2 Moderate
4	Nashville, TN	86	107	EAC Subpart 1
9	Nevada Co, CA (Western Portion)	98	116	Subpart 1
2,1	New York-N. New Jersey-Long Island,NY-NJ-CT	106	146	Subpart 2 Moderate
3	Norfolk-Virginia Beach-Newport News (HR),VA	90	121	Subpart 2 Marginal
3,5	Parkersburg-Marietta, WV-OH	87	113	Subpart 1
3,2	Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE	101	133	Subpart 2 Moderate
9	Phoenix-Mesa, AZ	87	111	Subpart 1
3	Pittsburgh-Beaver Valley, PA	94	120	Subpart 1
1	Portland, ME	91	126	Subpart 2 Marginal
2	Poughkeepsie, NY	94	126	Subpart 2 Moderate
1	Providence (All RI), RI	95	130	Subpart 2 Moderate
4	Raleigh-Durham-Chapel Hill, NC	94	118	Subpart 1
3	Reading, PA	91	116	Subpart 1
3	Richmond-Petersburg, VA	94	131	Subpart 2 Moderate
9	Riverside Co, (Coachella Valley), CA	108	133	Subpart 2 Serious
3	Roanoke, VA	85	107	EAC Subpart 1
2	Rochester, NY	88	110	Subpart 1

4	Rocky Mount, NC	89	106	Subpart 1
9	Sacramento Metro, CA	107	143	Subpart 2 Serious
6	San Antonio, TX	89	119	EAC Subpart 1
9	San Diego, CA	93	118	Subpart 1
9	San Francisco Bay Area, CA	86	123	Subpart 2 Marginal
9	San Joaquin Valley, CA	115	151	Subpart 2 Serious
3	Scranton-Wilkes-Barre, PA	86	108	Subpart 1
5	Sheboygan, WI	100	124	Subpart 2 Moderate
5	South Bend-Elkhart, IN	93	116	Subpart 1
1	Springfield (Western MA), MA	94	132	Subpart 2 Moderate
7,5	St Louis, MO-IL	92	122	Subpart 2 Moderate
3	State College, PA	88	109	Subpart 1
5,3	Steubenville-Weirton, OH-WV	86	113	Subpart 1
9	Sutter Co, CA (Sutter Buttes)	88	113	Subpart 1
5	Terre Haute, IN	87	108	Subpart 1
3	Tioga Co, PA	86	102	Subpart 1
5	Toledo, OH	93	112	Subpart 1
9	Ventura Co, CA	95	124	Subpart 2 Moderate
3	Washington Co (Hagerstown), MD	86	109	EAC Subpart 1
3	Washington, DC-MD-VA	99	140	Subpart 2 Moderate
3,5	Wheeling, WV-OH	87	111	Subpart 1
3	York, PA	89	114	Subpart 1
5,3	Youngstown-Warren-Sharon, OH-PA	95	118	Subpart 1

Boston-Manchester-Portsmouth(SE),NH has the same classification as Boston-Lawrence-Worcester(E. MA), MA
 Fredericksburg, VA has the same classification as Washington, DC-MD-VA

The level of the 8-hour ozone (O3) National Ambient Air Quality Standards (NAAQS) is 0.08 parts per million (ppm). The air quality design value for the 8-hour O3 NAAQS is the 3-year average of the annual 4th highest daily maximum 8-hour average O3 concentration. The 8-hour O3 NAAQS is not met when the 8-hour ozone design value is greater than 0.08 ppm (85 parts per billion [ppb] rounds up). Therefore, an area with a design value of 85 ppb does not meet the NAAQS.

An area with a 1-hour design value of 120 ppb or lower is in a Subpart 1 category.

County 8-hour Ozone Air Quality Data 2001-2003
By State

297 fail to meet the standard (V)
654 total counties with 3 years of data

2 year average data not included in counts and are not considered a violation.

The level of the 8-hour ozone (O3) National Ambient Air Quality Standards (NAAQS) is 0.08 parts per million (ppm). The air quality design value for the 8-hour O3 NAAQS is the 3-year average of the annual 4th highest daily maximum 8-hour average O3 concentration. The 8-hour O3 NAAQS is not met when the 8-hour ozone design value is greater than 0.08 ppm (85 ppb rounds up). Therefore, a county with a design value of 85 ppb does not meet the NAAQS.

State County Design Value in ppb

Alabama

Baldwin Co	76
Clay Co	80
Elmore Co	76
Jefferson Co	83
Lawrence Co	76
Madison Co	79
Mobile Co	77
Montgomery Co	74
Morgan Co	81
Shelby Co	87 V
Sumter Co	71
Tuscaloosa Co	78

Alaska

Yukon-Koyukuk CA	54
------------------	----

Arizona

Cochise Co	71
Coconino Co	74

State County	Design Value in ppb
Maricopa Co	87 V
Pima Co	74
Pinal Co	83
Yavapai Co	77
Arkansas	
Crittenden Co	92 V
Montgomery Co	66
Newton Co	78
Pulaski Co	81
California	
Alameda Co	84
Amador Co	85 V
Butte Co	89 V
Calaveras Co	91 V
Colusa Co	75
Contra Costa Co	81
El Dorado Co	107 V
Fresno Co	111 V
Glenn Co	73
Imperial Co	87 V
Inyo Co	81
Kern Co	115 V
Kings Co	95 V
Lake Co	63
Los Angeles Co	126 V
Madera Co	93 V
Marin Co	48
Mariposa Co	91 V
Mendocino Co	57
Merced Co	102 V
Monterey Co	66
Napa Co	65
Nevada Co	98 V
Orange Co	86 V

Placer Co	99 V
Plumas Co	69
Riverside Co	118 V
Sacramento Co	100 V
San Benito Co	81
San Bernardino Co	131 V
San Diego Co	93 V
San Francisco Co	47
San Joaquin Co	81
San Luis Obispo Co	74
San Mateo Co	58
Santa Barbara Co	84
Santa Clara Co	86 V
Santa Cruz Co	65
Shasta Co	80
Siskiyou Co	57
Solano Co	71
Sonoma Co	62
Stanislaus Co	96 V
Sutter Co	88 V
Tehama Co	84
Tulare Co	107 V
Tuolumne Co	85 V
Ventura Co	95 V
Yolo Co	76

Colorado

Adams Co	66
Arapahoe Co	81
Boulder Co	77
Denver Co	76
Douglas Co	85 V
El Paso Co	73
Jefferson Co	87 V
La Plata Co	58
Larimer Co	81

Montezuma Co 67
 Weld Co 79

Connecticut

Fairfield Co 102 V
 Hartford Co 90 V
 Litchfield Co 92 2 year average
 Middlesex Co 98 V
 New Haven Co 102 V
 New London Co 93 V
 Tolland Co 95 V

Delaware

Kent Co 89 V
 New Castle Co 93 V
 Sussex Co 91 V

Dist. Columbia

Washington 94 V

Florida

Alachua Co 72
 Baker Co 71
 Bay Co 79
 Brevard Co 74
 Broward Co 68
 Collier Co 62
 Columbia Co 71
 Duval Co 68
 Escambia Co 79
 Highlands Co 64
 Hillsborough Co 78
 Holmes Co 71
 Lake Co 76
 Lee Co 68
 Leon Co 71

Manatee Co	75
Marion Co	74
Miami-Dade Co	66
Orange Co	76
Osceola Co	71
Palm Beach Co	67
Pasco Co	77
Pinellas Co	74
Polk Co	77
St. Lucie Co	68
Santa Rosa Co	80
Sarasota Co	79
Seminole Co	77
Volusia Co	70
Wakulla Co	76

Georgia

Bibb Co	86 V
Chatham Co	67
Cobb Co	90 V
Coweta Co	87 V
Dawson Co	80
De Kalb Co	89 V
Douglas Co	91 V
Fayette Co	83
Fulton Co	91 V
Glynn Co	72
Gwinnett Co	85 V
Henry Co	89 V
Murray Co	85 V
Muscogee Co	74
Paulding Co	89 V
Richmond Co	83
Rockdale Co	89 V
Sumter Co	74

Hawaii

Hawaii Co	42
Honolulu Co	41

Idaho

Ada Co	76
Butte Co	65
Elmore Co	68

Illinois

Adams Co	77
Champaign Co	76
Clark Co	75
Cook Co	87 V
Du Page Co	73
Effingham Co	75
Hamilton Co	79
Jersey Co	89 V
Kane Co	79
Lake Co	87 V
McHenry Co	84
McLean Co	77
Macon Co	75
Macoupin Co	78
Madison Co	88 V
Peoria Co	80
Randolph Co	79
Rock Island Co	71
St. Clair Co	83
Sangamon Co	76
Will Co	79
Winnebago Co	77

Indiana

Allen Co	88 V
Boone Co	90 V

Carroll Co	84	
Clark Co	92	V
Delaware Co	88	V
Elkhart Co	93	2 year average
Floyd Co	86	V
Gibson Co	73	
Greene Co	88	V
Hamilton Co	96	V
Hancock Co	94	V
Hendricks Co	85	V
Huntington Co	84	
Jackson Co	85	V
Johnson Co	86	V
Lake Co	90	V
La Porte Co	93	V
Madison Co	95	V
Marion Co	92	V
Morgan Co	85	V
Porter Co	87	V
Posey Co	84	
St. Joseph Co	93	V
Shelby Co	94	V
Vanderburgh Co	83	
Vigo Co	87	V
Warrick Co	85	V

Iowa

Bremer Co	69
Clinton Co	78
Harrison Co	76
Linn Co	69
Palo Alto Co	63
Polk Co	56
Scott Co	79
Story Co	60
Van Buren Co	74

Warren Co 60

Kansas

Linn Co 75

Sedgwick Co 81

Sumner Co 78

Trego Co 62

Wyandotte Co 80

Kentucky

Bell Co 82

Boone Co 85 V

Boyd Co 91 V

Bullitt Co 81

Campbell Co 91 V

Carter Co 78

Christian Co 85 V

Daviess Co 76

Edmonson Co 80

Fayette Co 76

Graves Co 79

Greenup Co 83

Hancock Co 82

Hardin Co 79

Henderson Co 80

Jefferson Co 84

Jessamine Co 77

Kenton Co 85 V

Livingston Co 84

McCracken Co 79

McLean Co 82

Oldham Co 86 V

Perry Co 76

Pike Co 73

Pulaski Co 77

Scott Co 69

Simpson Co	81
Trigg Co	73
Warren Co	82

Louisiana

Ascension Par	77
Beauregard Par	73
Bossier Par	80
Caddo Par	77
Calcasieu Par	78
East Baton Rouge Par	86 V
Grant Par	74
Iberville Par	84
Jefferson Par	82
Lafayette Par	78
Lafourche Par	78
Livingston Par	78
Orleans Par	69
Ouachita Par	78
Pointe Coupee Par	73
St. Bernard Par	78
St. Charles Par	78
St. James Par	73
St. John The Baptist Pa	78
St. Mary Par	74
West Baton Rouge Par	84

Maine

Cumberland Co	88 V
Hancock Co	94 V
Kennebec Co	80
Knox Co	87 V
Oxford Co	62
Penobscot Co	83
York Co	91 V

Maryland

Anne Arundel Co	98 V
Baltimore Co	93 V
Carroll Co	89 V
Cecil Co	98 V
Charles Co	94 V
Frederick Co	88 V
Harford Co	103 V
Kent Co	95 V
Montgomery Co	88 V
Prince George's Co	93 V
Washington Co	86 V
Baltimore city	82

Massachusetts

Barnstable Co	95 V
Berkshire Co	87 V
Bristol Co	95 V
Essex Co	93 V
Hampden Co	94 V
Hampshire Co	87 V
Middlesex Co	89 V
Suffolk Co	91 V
Worcester Co	86 V

Michigan

Allegan Co	97 V
Benzie Co	88 V
Berrien Co	91 V
Cass Co	93 V
Clinton Co	86 V
Genesee Co	90 V
Huron Co	87 V
Ingham Co	85 V
Kalamazoo Co	86 V
Kent Co	88 V

Lenawee Co	87 V
Macomb Co	97 V
Mason Co	89 V
Missaukee Co	81
Muskegon Co	95 V
Oakland Co	91 V
Ottawa Co	89 V
St. Clair Co	90 V
Washtenaw Co	91 V
Wayne Co	91 V

Minnesota

Anoka Co	74
Carlton Co	60
Dakota Co	68
Lake Co	61
Mille Lacs Co	72
St. Louis Co	65
Washington Co	74

Mississippi

Adams Co	77
Bolivar Co	75
De Soto Co	81
Hancock Co	82
Harrison Co	80
Hinds Co	73
Jackson Co	80
Lauderdale Co	73
Lee Co	79
Madison Co	74
Warren Co	74

Missouri

Cass Co	79
Cedar Co	79

State County	Design Value in ppb
Clay Co	84
Greene Co	73
Jefferson Co	87 V
Monroe Co	78
Platte Co	80
St. Charles Co	92 V
Ste. Genevieve Co	83
St. Louis Co	91 V
St. Louis city	89 V
Montana	
Flathead Co	54
Nebraska	
Douglas Co	67
Lancaster Co	55
Nevada	
Clark Co	86 V
Douglas Co	71
Washoe Co	74
White Pine Co	71
Carson City	69
New Hampshire	
Belknap Co	78
Cheshire Co	76
Coos Co	80
Grafton Co	72
Hillsborough Co	87 V
Merrimack Co	75
Rockingham Co	84
Strafford Co	80
Sullivan Co	75

New Jersey

Atlantic Co	91 V
Bergen Co	94 V
Camden Co	101 V
Cumberland Co	95 V
Essex Co	68
Gloucester Co	99 V
Hudson Co	87 V
Hunterdon Co	97 V
Mercer Co	100 V
Middlesex Co	98 V
Monmouth Co	97 V
Morris Co	98 V
Ocean Co	106 V
Passaic Co	88 V
New Mexico	
Bernalillo Co	77
Dona Ana Co	79
Eddy Co	69
Sandoval Co	73
San Juan Co	74
Valencia Co	66
New York	
Albany Co	86 V
Bronx Co	84
Chautauqua Co	94 V
Chemung Co	83
Dutchess Co	94 V
Erie Co	99 V
Essex Co	91 V
Hamilton Co	81
Herkimer Co	76
Jefferson Co	97 V
Madison Co	82
Monroe Co	88 V

Niagara Co	95	V
Oneida Co	83	
Onondaga Co	85	V
Orange Co	87	V
Putnam Co	93	V
Queens Co	85	V
Rensselaer Co	91	2 year average
Richmond Co	94	V
Saratoga Co	87	V
Schenectady Co	81	
Suffolk Co	100	V
Ulster Co	83	
Wayne Co	88	V
Westchester Co	94	V

North Carolina

Alexander Co	88	V
Avery Co	78	
Buncombe Co	78	
Caldwell Co	84	
Caswell Co	88	V
Chatham Co	82	
Cumberland Co	87	V
Davie Co	93	V
Duplin Co	79	
Durham Co	89	V
Edgecombe Co	89	V
Forsyth Co	93	V
Franklin Co	90	V
Granville Co	94	V
Guilford Co	89	V
Haywood Co	85	V
Jackson Co	84	
Johnston Co	85	V
Lenoir Co	81	
Lincoln Co	92	V

Martin Co	81
Mecklenburg Co	98 V
New Hanover Co	78
Northampton Co	84
Person Co	91 V
Pitt Co	82
Randolph Co	85 V
Rockingham Co	91 V
Rowan Co	100 V
Swain Co	74
Union Co	88 V
Wake Co	92 V
Yancey Co	83

North Dakota

Billings Co	61
Cass Co	63
Dunn Co	60
McKenzie Co	62
Mercer Co	62
Oliver Co	58

Ohio

Allen Co	89 V
Ashtabula Co	99 V
Butler Co	92 V
Clark Co	88 V
Clermont Co	90 V
Clinton Co	96 V
Cuyahoga Co	90 V
Delaware Co	91 V
Franklin Co	95 V
Geauga Co	103 V
Greene Co	90 V
Hamilton Co	93 V
Jefferson Co	86 V

Knox Co	88 V
Lake Co	95 V
Lawrence Co	83
Licking Co	89 V
Lorain Co	90 V
Lucas Co	93 V
Madison Co	90 V
Mahoning Co	89 V
Medina Co	90 V
Miami Co	88 V
Montgomery Co	87 V
Portage Co	93 V
Preble Co	81
Stark Co	90 V
Summit Co	96 V
Trumbull Co	95 V
Warren Co	92 V
Washington Co	86 V
Wood Co	90 V

Oklahoma

Cherokee Co	76
Cleveland Co	76
Comanche Co	77
Kay Co	75
McClain Co	78
Oklahoma Co	80
Ottawa Co	79
Tulsa Co	83

Oregon

Clackamas Co	69
Columbia Co	62
Jackson Co	71
Lane Co	70
Marion Co	64

Pennsylvania

Allegheny Co	93 V
Armstrong Co	93 V
Beaver Co	94 V
Berks Co	91 V
Blair Co	85 V
Bucks Co	100 V
Cambria Co	87 V
Centre Co	88 V
Chester Co	98 V
Clearfield Co	90 V
Dauphin Co	88 V
Delaware Co	92 V
Erie Co	92 V
Franklin Co	93 V
Greene Co	89 V
Lackawanna Co	85 V
Lancaster Co	92 V
Lawrence Co	80
Lehigh Co	91 V
Luzerne Co	86 V
Lycoming Co	80
another monitor	87 2 year average
Mercer Co	94 V
Montgomery Co	92 V
Northampton Co	90 V
Perry Co	87 V
Philadelphia Co	97 V
Tioga Co	86 V
Washington Co	89 V
Westmoreland Co	91 V
York Co	89 V

Rhode Island

Kent Co	95 V
Providence Co	93 V

Washington Co	95 V
South Carolina	
Abbeville Co	82
Aiken Co	80
Anderson Co	86 V
Barnwell Co	78
Berkeley Co	71
Charleston Co	72
Cherokee Co	84
Chester Co	84
Colleton Co	77
Darlington Co	82
Edgefield Co	79
Oconee Co	84
Pickens Co	84
Richland Co	89 V
Spartanburg Co	87 V
Union Co	80
Williamsburg Co	71
York Co	84
South Dakota	
Minnehaha Co	65
Tennessee	
Anderson Co	87 V
Blount Co	92 V
Davidson Co	77
Hamilton Co	88 V
Haywood Co	81
Jefferson Co	91 V
Knox Co	92 V
Lawrence Co	77
Meigs Co	88 V
Putnam Co	82

Rutherford Co	80
Sevier Co	92 V
Shelby Co	89 V
Sullivan Co	86 V
Sumner Co	86 V
Williamson Co	84
Wilson Co	82

Texas

Bexar Co	89 V
Brazoria Co	91 V
Brewster Co	62
Cameron Co	65
Collin Co	88 V
Dallas Co	90 V
Denton Co	97 V
Ellis Co	82
El Paso Co	79
Galveston Co	89 V
Gregg Co	82
Harris Co	102 V
Harrison Co	76
Hidalgo Co	73
Hood Co	84
Jefferson Co	91 V
Johnson Co	90 V
Kaufman Co	73
Montgomery Co	89 V
Nueces Co	80
Orange Co	80
Parker Co	89 V
Rockwall Co	81
Smith Co	81
Tarrant Co	100 V
Travis Co	84
Victoria Co	78

Webb Co 64

Utah

Box Elder Co 79
 Cache Co 70
 Davis Co 83
 Salt Lake Co 80
 San Juan Co 71
 Utah Co 79
 Weber Co 81

Vermont

Bennington Co 80
 Chittenden Co 78

Virginia

Arlington Co 99 V
 Caroline Co 84
 Charles City Co 91 V
 Chesterfield Co 86 V
 Fairfax Co 97 V
 Fauquier Co 80
 Frederick Co 85 V
 Hanover Co 94 V
 Henrico Co 90 V
 Loudoun Co 92 V
 Madison Co 87 V
 Page Co 82
 Prince William Co 87 V
 Roanoke Co 85 V
 Rockbridge Co 78
 Stafford Co 88 V
 Wythe Co 80
 Alexandria city 92 V
 Hampton city 90 V
 Suffolk city 88 V

Washington

Clallam Co	43
Clark Co	63
King Co	71
Klickitat Co	66
Pierce Co	72
Skagit Co	50
Spokane Co	73
Thurston Co	64
Whatcom Co	53

West Virginia

Berkeley Co	86 V
Cabell Co	88 V
Greenbrier Co	80
Hancock Co	86 V
Kanawha Co	86 V
Monongalia Co	79
Ohio Co	87 V
Wood Co	87 V

Wisconsin

Brown Co	83
Columbia Co	79
Dane Co	78
Dodge Co	82
Door Co	94 V
Florence Co	70
Fond du Lac Co	80
Green Co	75
Jefferson Co	83
Kenosha Co	101 V
Kewaunee Co	93 V
Manitowoc Co	90 V
Marathon Co	73
Milwaukee Co	94 V

State County Design Value in ppb

Oneida Co	69
Outagamie Co	78
Ozaukee Co	98 V
Racine Co	95 V
Rock Co	83
St. Croix Co	73
Sauk Co	73
Sheboygan Co	100 V
Vernon Co	72
Vilas Co	69
Walworth Co	84
Washington Co	83
Waukesha Co	81
Winnebago Co	82
Wyoming	
Teton Co	65
Virgin Islands	
St. John	44